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FANTUZZI REGGIANE

fantuzzi DIVISION

ForkLIFTS

Operator & Maintenance Manual

FDC160/1200

created at

TDO Technical Documentation Office

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SMT.IND04.E01

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NOTES

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OPERATOR'S MANUAL

FOREWORD

USE OF THE MANUAL

This document is the “Operation & Maintenance Manual”.

It is an essential part of the supply and shall be properly kept and always made available to the staff involved in operation and maintenance activities.

The text is written with the aim to help the staff involved in operation and maintenance activities and contains instructions, information and all necessary recommendations for keeping the truck in safe and efficient conditions.

Before the truck is put into service, the User is required to read all the sections of this manual carefully, to ensure that it also read by all the persons assigned to the operation or maintenance of the truck, and to ensure that it is always readily available for reference.

It should be made clear that no machine can withstand misuse and negligence, therefore it is recommended that the instructions described in this manual be strictly followed.

In order to make the maintenance section more fluent, some basic concepts have been omitted, that should be familiar to people having average experience on the matter.

This manual is based on the state of technology at the time of truck sale, therefore it cannot be considered inadequate on the basis of more recent technical knowledge and solutions at the moment of truck commissioning.

This manual is the property of Fantuzzi-Reggiane S.p.A. and may not be reproduced totally or partially nor may it be transmitted to a third party without the written permission of Fantuzzi-Reggiane S.p.A.

The manual and the relevant technical documentation complies with European Standards and Codes on machines, according to directive 98/37/CE.

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SYMBOLS USED IN THE MANUAL



Danger: generic



Danger: high voltage



Danger: suspended loads

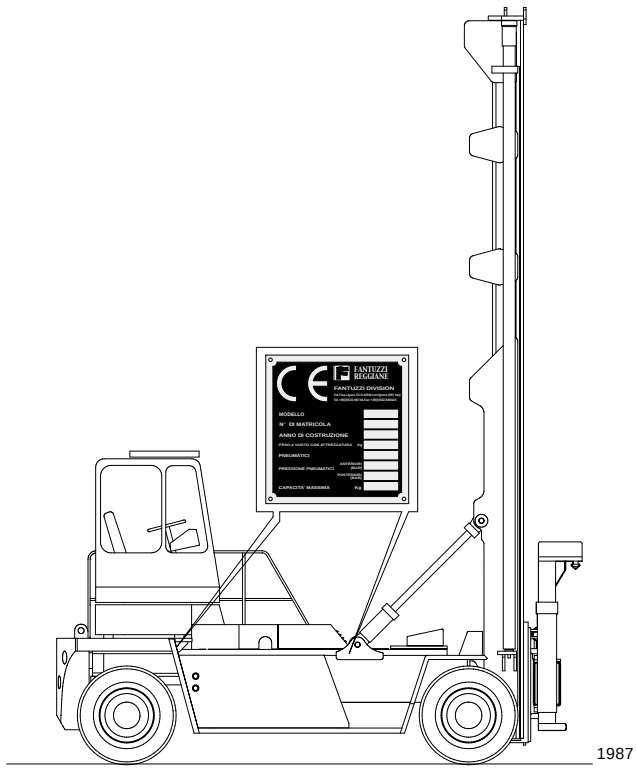
SMT.0532.E00

SIGN PLATES

SMT.0010.E01

The equipment is identifiable by means of printed plates which are found along the left sides of the equipment.
The plate with CE sign guarantee that the machine is manufactured in compliance with the Directives 98/37 CE.
The type of equipment and the factory number are the means of reference for any communication between the user and Fantuzzi-Reggiane SpA.

SMT.0010.E01



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GENERAL INFORMATION

GENERAL SAFETY PRECAUTIONS

- Make sure you are perfectly acquainted with the position and function of each control and try the truck out on a safe area free of obstacles and persons. Do not allow unauthorised personnel to use the truck.
- Use the steps to enter and exit the truck, using the handrail, two hands and keeping the front part of the body turned towards the machine.
- Do not get in and out of the truck while this is moving.
- Do not jump out of the truck; Do not apply pressure on the controls or hoses. Wear a helmet, goggles, and safety clothing and footwear, in accordance with applicable regulations.
- Keep the platforms, hoods, cab and footwear free of oil, diesel fuel and grease to prevent slipping. Do not walk on edges, pipes or surfaces that could give way.
- Read and understand all the hazard notices and precautions to be taken as indicated on the panels on the truck.
- The machine operator or maintenance engineer shall be responsible for replacing any deteriorated notice which is no longer readable or missing notice, especially those relating to safety. The position of such notices with relevant codes is shown in the spare parts catalogue.

Fantuzzi-Reggiane S.p.A. cannot accepts any liability for any injury or damage arising from:

- improper use;
- use by untrained personnel;
- lack of maintenance;
- use of non-original replacement parts;
- total or partial failure to comply with the instructions;
- tampering with the safety devices and safeguards;
- exceptional events;
- use of products other than those indicated;
- unauthorised modifications.

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Instructions for truck operation and use

- The truck shall be operated by appointed personnel only.
- Never hoist a load heavier than those indicated on the chart.
- Do not allow unauthorised people to stand within the truck operating radius.
- Do not leave the operating station with a suspended load.
- Check efficiency of brakes and safety devices.
- Ensure that the stabilisers are fully extended and positioned on a solid surface.

WARNING NOTICES

It is the User’s responsibility to ensure that all the required notices are present and are legible from the positions occupied by the persons to whom they are addressed.

Replace any notices that are illegible or have been removed: replacement notices should be ordered from Fantuzzi-Reggiane S.p.A. before the original notices become illegible.

Fantuzzi-Reggiane S.p.A. cannot accept any liability for any damage/injury sustained as a result of the user’s failure to order replacement notices in due time.

PERSONNEL TRAINING

All personnel assigned to operations on the truck must:

- be competent of carrying out the work to which they are assigned;
- have received adequate instruction on the specific operations to which they are assigned;
- have fully understood all instructions;
- be aware of all potential hazards;
- have sufficient specific knowledge to understand all the instructions and technical standards, with particular regard to accident prevention;
- have no physical handicaps or defects such as to render them unable to carry out correctly all the operations to which they are assigned and be unable to access the machine without limitations.
- Wear a hard hat, eye protection, safety clothing and footwear in accordance with applicable safety regulations.

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OPERATOR'S RESPONSIBILITIES

Safety must always be the first priority of the operator.
He must always refrain from operating the truck on detecting any condition which might jeopardise safety, inform his superior and take suitable action to remove the cause of the condition.

He must know how to consult the load capacities chart and, before attempting to lift each load, he must be certain that the truck can lift it safely.

He must be alert, physically fit and must not be under the influence of alcohol, drugs or medication which could affect his eyesight, hearing or reflexes.

When visibility does not allow optimum control of the operations, or when working in hazardous areas (presence of electric lines, pipes, people, etc.), the operator must deploy a signaller.

The operator must only follow the signals given by the designated signaller.

The operator must, however, at all times obey any signal to stop given by anyone working on the site.

WARRANTY

Fantuzzi-Reggiane S.p.A. guarantees the machine against defects, as well as the materials supplied and their putting into service and calibration in accordance with the time schedule and methods agreed at the time of purchase.

The warranty does not cover damage sustained as a result of accidental breakage, tampering, negligence and carelessness on the part of the User, or unauthorised modifications to the machine or any operations prohibited by this manual.

AFTER-SALES SERVICE

The User is required to inform Fantuzzi-Reggiane S.p.A. and receive approval prior to replacing any parts or carrying out any modifications.

We recommend that only original replacement parts are used.

Fantuzzi-Reggiane S.p.A. is always available for assistance, routine or major servicing, advice on maintenance of the truck and for clarification of any of the information contained in or omitted from this manual.

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DISMANTLING AND SCRAPPING THE TRUCK

As the truck is a complex machine with some very large and heavy components, dismantling and scrapping should only be entrusted to specialised personnel.

We therefore recommend to contact Fantuzzi-Reggiane S.p.A. for assistance in dismantling operations.

PRODUCT DISPOSAL

All products used during the course of maintenance, repair and part replacement operations (e.g. oil, grease, batteries) are to be disposed of in accordance with the specific legal requirements for each type of product.

FIRST AID

Call a doctor immediately in all cases of serious injury.

After administering first aid, send the patient to a doctor.

Never attempt any medical procedures of which you are unsure as this could harm the patient.

Remove the patient from the harmful environment.

Put the patient in the best possible conditions for rest; loosen clothing, collar, belt and, if necessary, cover with a blanket

Never give any drink to someone who is unconscious.

Before touching any wounds, wash your hands with soap and water and, if possible, disinfect them.

Disinfect any wounds, if you know how to do this correctly. Otherwise, cover with sterile gauze and apply pressure with a cotton wool wad impregnated with alcohol and a tight bandage.

In the case of heavy bleeding from an arm or leg, apply a tourniquet above the wound and take the patient to the nearest accident unit.

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SECTION 1 - GENERAL INFORMATION

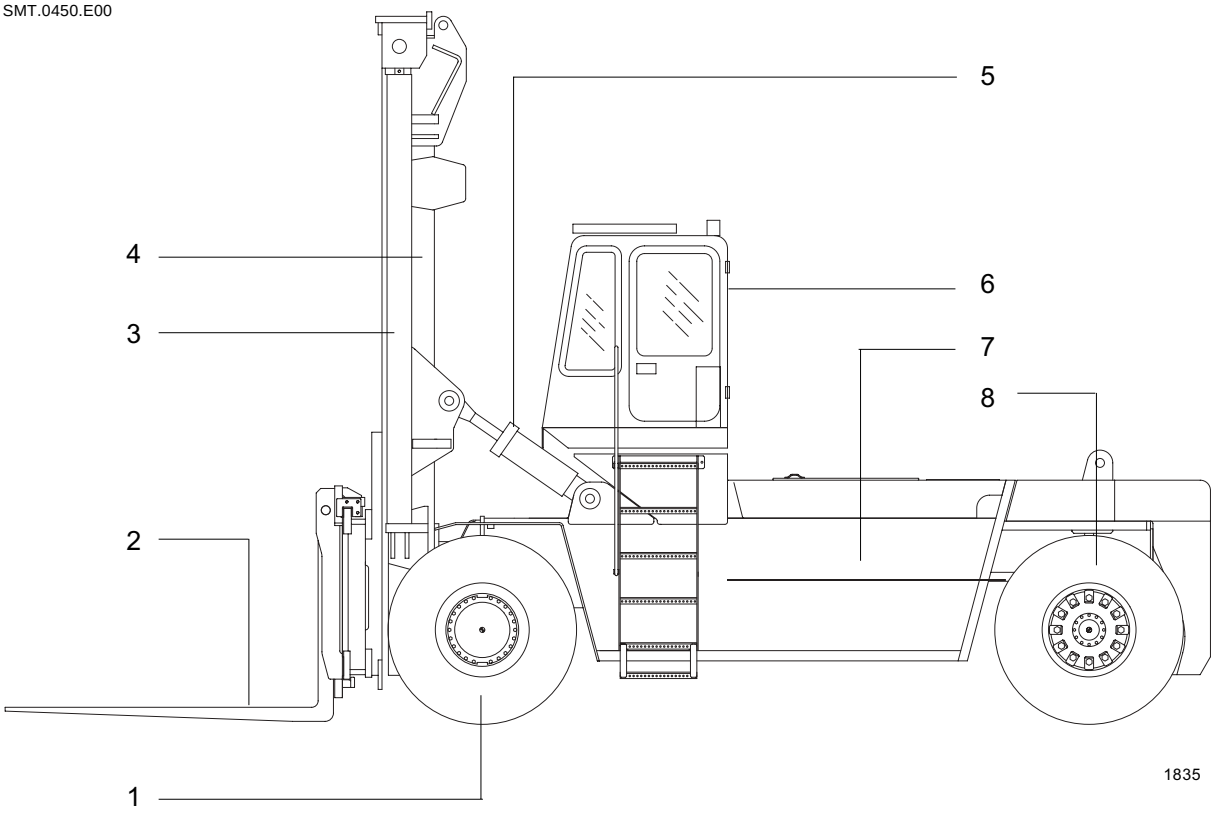
GENERAL DESCRIPTION & ORIENTATION

SMT.0450.E00

The machine is a rubber tired, front lifttruck. It is specifically designed to lift and to transport goods with fork but it can be used with a special equipment as cois boom, telescopic cois boom and clamps.

1. Front wheels
2. Fork
3. Mast
4. Lifting cylinder
5. Tilting cylinder
6. Operator’s cab
7. Hydraulic oil reservoir
8. Rear wheels

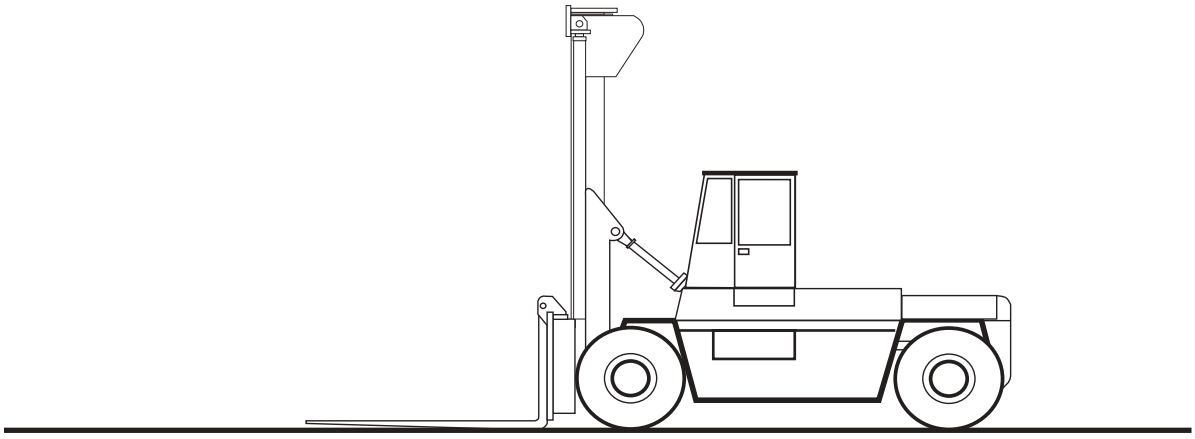
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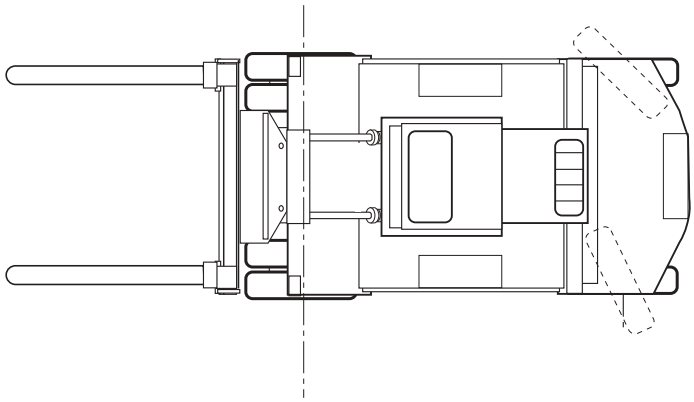


IMPORTANT: The machine’s orientation (Front, Rear, Left, Right) as referenced in this manual is based on the operator’s perspective when seated. SMT.0199.E00

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FDC 160/1200





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TECHNICAL SPECIFICATIONS

1	Manufacturer		**FANTUZZI**		
2	Model		**FDC 160/1200**		
3	Weight empty			kg	16000
4	Propulsion		Electrical, Diesel, Petrol, Gas		Diesel
5	Tyres		V = Solid tyre - L = Tyres	F/R	L/L
6	Wheels (x = drive)		Number	F/R	4 x 2
7	Lift	h3	Height	mm	3500
8	Forks		Thickness, Width, Lenght	mm	100 x 220 x 2450
9	Tilt		Forward / Reverse	a/b	6 / 12
10	Maximum dimensions	L	Length	mm	5450
		B	Width	mm	2500
		h1	Closed Mast Height	mm	3400
11	Turning Radius	Wa	External	mm	5300
12	Performance		Speed	km/h	28
13	Noise		Outside / In cabin	dB (A)	85 / 75
14	Tyres		Number	F/R	4 / 2
			Size Front		12.00 - 24
			Size Rear		12.00 - 24
			Inflation Pressure	bar	9
15	Wheel base	y		mm	3750
16	Track	S1 - S2	Front / Rear	mm	1860 / 2080
17	Service Brakes	Front	Pedal Servohydraulic		Wet Disc
18	Service Brakes	Rear	Dry Disc		Option
19	Parking Brake		Mechanic		Disc
20	Batteries		Voltage /Capacity	V/Ah	24 / 150
21	Engine			See Engine Table	
22	Transmission			Hydrodinamic Torque Converter	
23	Clutch			Type	Power-shift
24	Gear selector		Forward / Reverse	N°	3 / 3

2350/E

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Manufacturer / Type	Power Kw / CV	Nr. Giri	Number of Cylinders	Dispalcement Cm^3
PERKINS 1006-60T	117 / 160	2500	6	6000
CUMMINS 6 BT 5.9 C	114 / 156	2500	6	5900
CUMMINS 6 CT 8.3	157 / 211	2400	6	8270
CUMMINS 6 CTA 8.3	179 / 240	2400	6	8270
VOLVO TWD 640 VE	140 / 190	2500	6	5500
VOLVO TWD 731 VE	175 / 238	2400	6	6730
CATERPILLAR 3126 TA	170 / 230	2200	6	7200

1778/E

IMPORTANT NOTICE REGARDING BRAKING

SMT.0014.E00

A variable distance is required to stop the machine, depending on the load and speed.

Although it may be possible to stop an automobile traveling at 5 M.P.H. (8 K.P.H.) in just a few feet, a train traveling at the same speed requires a much greater distance to stop because of its additional weight and inertia. Likewise, a machine also requires a greater stopping distance. The machine's inertial force results from its speed and weight. This force will influence how quickly a machine can be stopped just like any other vehicle. Because of the machine's gross weight, it cannot be stopped instantly.

Seeing that the machine cannot be stopped instantly be sure to allow ample stopping distance when driving to avoid collisions.

SMT.0014.E00

WARNING

Working in the area of industrial equipment is dangerous. Personnel in the area of industrial machines are subject to certain hazards that cannot be met by mechanical means but only by the exercise of intelligence, care, and common sense. It is therefore essential to have personnel involved in the use and operation of equipment who are competent, careful, physically and mentally qualified, and trained in the safe operation of the equipment and the handling of loads. SMT.0013.E00

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SECTION 2 • GENERAL SAFETY

GENERAL INFORMATION

SMT.0016.E00

Your safety and the safety of others in the work area of the machine is a direct result of your correct operation of this machine.

Know the location, positions and functions of all the controls. Make sure you check all controls in a safe, clear area before you work the machine.

Read this manual completely and make sure you understand the contents. Make sure you understand, for example, the characteristics of speed, stability, brakes, steering, etc., of this machine.

If you have any questions, contact Service Assistance department FANTUZZI-REGGIANE Spa.

Always keep this manual with your machine. It is recommended that you make copies of the safety guidelines in this manual and put these copies in the work area.

If this manual is lost or the signs one the machine deteriorate the operator should ask for a replacement from the manufacturer. FANTUZZI-REGGIANE Spa will not be held resposible for any damage caused due to any delays in requesting a substitute copy**.**

SMT.0016.E00

LOCAL LAWS

SMT.0017.E00

The safety information in this manual does not replace any other rules or laws for safety that are used in your area. Know the local rules or laws for safety. Make sure that your machine has the correct equipment to operate according to these rules or laws.

SMT.0017.E00

USING COMMON SENSE

SMT.0018.E00

All safety hazards that can possibly arise cannot be foreseen and noted in this manual. You must always use common sense and apply the general as well as the specific safety precautions.

SMT.0018.E00

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TERMINOLOGY

SMT.0019.E00

The following terms define the various precautions and notices used in this manual.

NOTE

“NOTE” is the term used whenever information requires additional emphasis beyond the standard text.

IMPORTANT

“IMPORTANT” is the term used whenever information requires special attention to procedures to ensure proper operation or to prevent possible equipment failure.

CAUTION

“CAUTION” is the term used whenever there is potential for equipment damage that requires correct procedures/practices for prevention.

WARNING

“WARNING” is the term used whenever there is a potential for personal injury or death that requires correct procedures/practices for prevention.

DANGER

“DANGER” is the term used whenever there is an immediate hazard that cannot be eliminated by design safeguards, which could result in personal injury or death.

SMT.0019.E00

WARNING

Working in the area of industrial equipment is dangerous. Personnel in the area of industrial machines are subject to certain hazards that cannot be met by mechanical means but only by the exercise of intelligence, care, and common sense. It is therefore essential to have personnel involved in the use and operation of equipment who are competent, careful, physically and mentally qualified, and trained in the safe operation of the equipment and the handling of loads.

SMT.0020.E00

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SAFETY RESPONSIBILITY OF THE OPERATOR

SMT.0021.E00

The safety instructions and warnings in this manual, which is shipped with the machine, provide the most reliable procedures for the safe operation of the machine. It is your responsibility to see that they are carried out.

Remember, YOU are the person in control of the machine. Do not move it until YOU know it is safe to do so.

WARNING

Do not move the machine until the surrounding area has been checked and is clear of personnel and obstructions. SMT.0022.E00

WARNING

Electrical, mechanical, and hydraulic safety devices have been installed on this machine to help protect against personal injury and/or damage to equipment. Under no circumstances should any attempt be made to disconnect or in any way render any of these devices inoperative. If a malfunction of any safety device is discovered to exist, DO NOT operate the machine, immediately notify appropriate maintenance personnel. SMT.0023.E00

Proper lighting, safety signs, warning bells, etc., can only ASSIST in preventing an accident. But YOU, the operator, can PREVENT an accident. YOU, the operator, must be responsible for the personal safety of yourself and all persons around the machine. When used, the GROUNDCREW should act as your controller. They can GUIDE you to avoid accidents, such as advising when the aisles are clear. However, YOU, the operator, have total responsibility for the safe operation of this machine. You are not move it until YOU know it is safe to do so, or have been appropriately signaled by an appointed ground person.

SMT.0021.E00

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GENERAL OPERATING GUIDELINES FOR SAFE OPERATION

SMT.0026.E00

The following guidelines are to alert you to conditions or situations that could cause an accident. Review each one thoroughly so you will be able to avoid possible hazards or avoid an accident when hazards cannot be eliminated. Be able to recognize hazards.

> **IMPORTANT:** Be familiar with and understand the safety information in the manuals and on the machine decals prior to operating it. Also, refer to other safety guidelines in Section 3 and 5.
>
> **IMPORTANT:** Always adhere to YOUR employer's standard safe operating procedures as they relate to your particular operation.

Be extremely careful if you do not normally operate this machine. Reorient yourself to it prior to starting, and then proceed slowly. However, you must NOT operate this piece of equipment without prior and proper instruction.

SMT.0026.E00

SMT.0033.E00

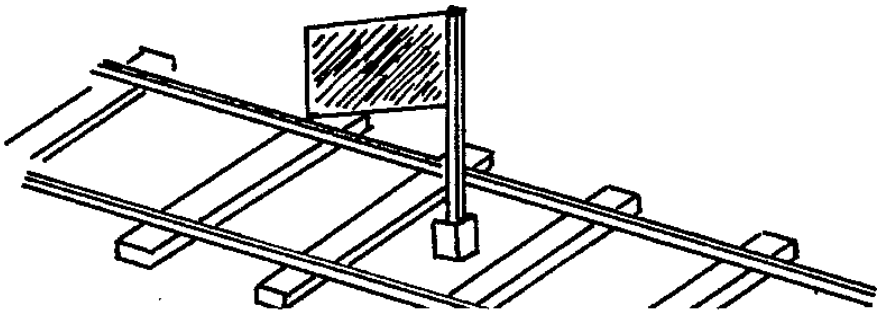
You should start slowly, applying what you learned during your instructions, and allow your operating speed to increase as you become more familiar with the machine and its characteristics.

CAUTION

When driving over uneven surfaces, such as rail crossings, go slowly to avoid an unstable situation. Otherwise, the MACHINE can tip over. SMT.0035.E00

Do not work a track before it has been protected by a "blue flag" or some other recognizable indicator.
Know your employer's policies!

SMT.0033.E00

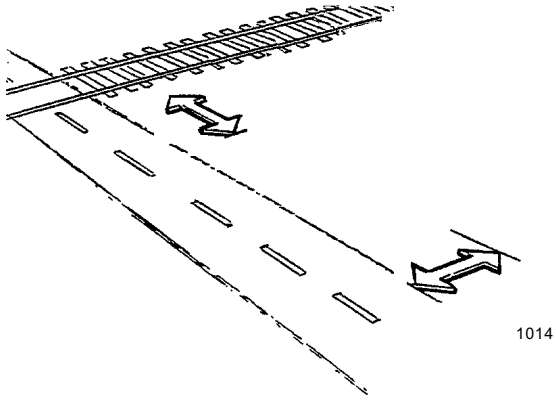


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SMT.0034.E00

Always park the machine in a safe area away from tracks and truck lanes.

SMT.0034.E00

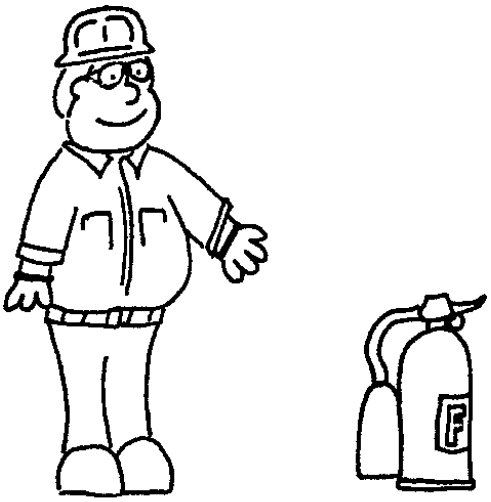


1014

SMT.0036.E00

Know where the fire extinguishers are located and how to use them. Make sure they are fully charged. If not, report it to your supervisor.

SMT.0036.E00



1019

SMT.0037.E00

All walking surfaces (steps, ladders, etc.) and hand railings must be free of ice, grease, oil, or other materials that could cause or contribute to a slip or fall by personnel.

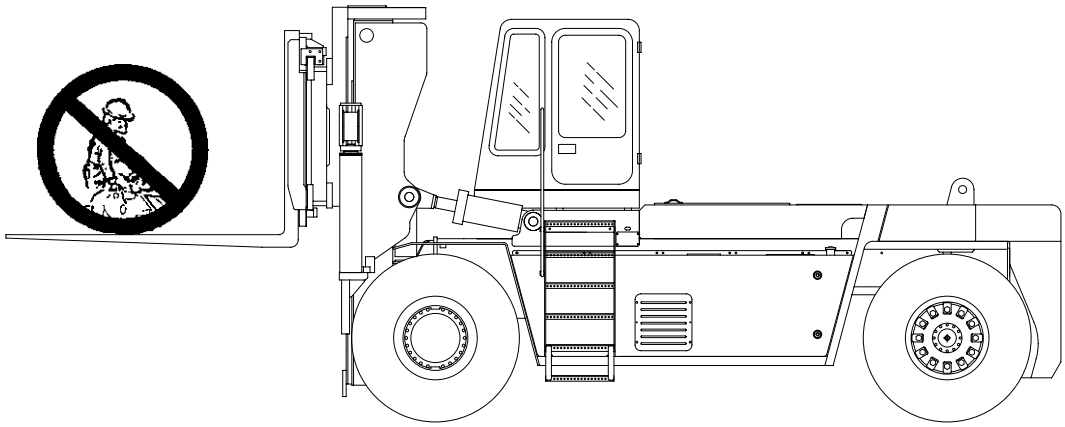
SMT.0037.E00

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SMT.0038.E00

Never lift, lower, or move any person on the spreader, load, or attachment.

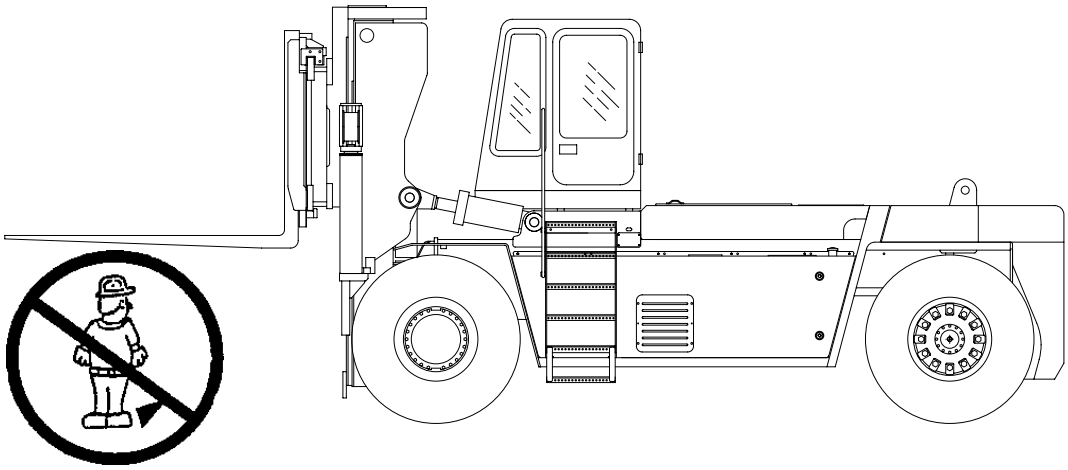
SMT.0038.E00



1015/1855

SMT.0044.E00

Do not allow personnel or vehicles to go underneath a load.



1018/1855

Do not add additional counter weights to the machine.

SMT.0044.E00

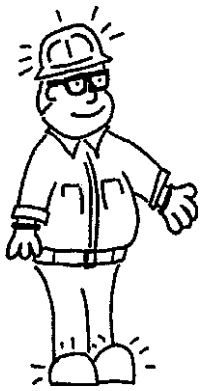
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PROTECTION

SMT.0029.E00

Wear the correct safety equipment; Safety glasses, hardhat, safety shoes/boots as established by your employer's safety policy. DO NOT wear loose clothing. If required, obtain additional safety equipment which may include but is not limited to; Ear protection, reflective clothing and gloves.

SMT.0029.E00



1009

GET ON AND GET DOWN

SMT.0030.E00

When going up and down ladders, always face the ladder and use both hands. Do NOT carry objects in one hand while climbing up or down.

SMT.0030.E00

TOWING

SMT.0042.E00

If this machine must be towed for any reason, FANTUZZI Technical Services should be consulted.

SMT.0042.E00

WARNING

When operating this machine, if any abnormal condition in its operation occurs, move the machine to a safe parking area, if possible, and when safe to do so, shut down the machine and notify appropriate maintenance personnel. SMT.0043.E00

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ELECTRIC LINE

DANGER

NEVER operate the machine under electrical power lines. Electrical energy under high voltage can discharge to ground through the machine without direct contact with the machine's structure, resulting in possible personal injury or death. SMT.0039.E00

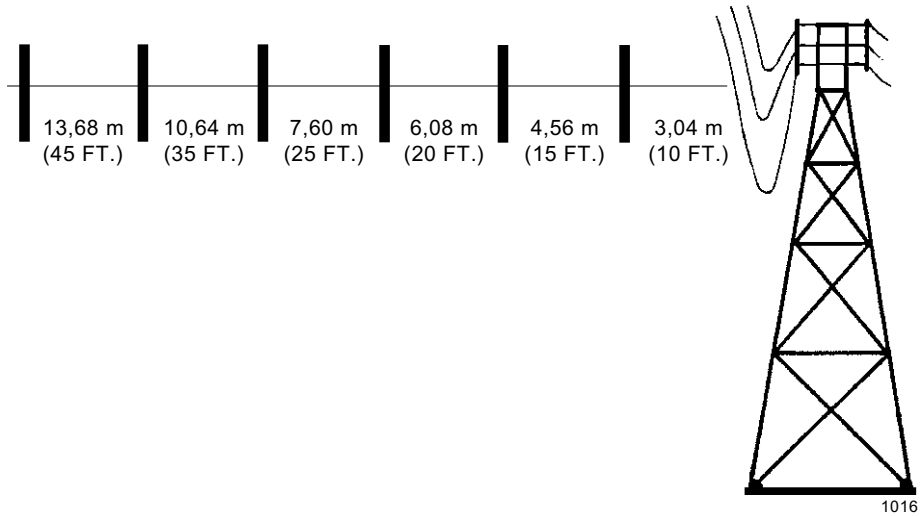
SMT.0041.E00

Minimum clearances from energized power lines or other power sources must be kept. In Italy statute DPR 164 art. 11 states that a minimum distance of 5 meters should be maintained whatever the voltage. This value should be regarded as a minimum value and it is meant that during manoeuvre no part of the load, machine or additional equipment employed should violate this limit. You are adviced to refer to the following illustration from OSHA recommended Electrical Conductor Clearance Chart. When in doubt, contact your local Electrical Power Utility Company FIRST!

NOTE: Where local or other applicable safety codes or regulations specify greater clearance distances, the local or other applicable safety codes or regulations shall apply.

MINIMUM SAFE CLEARANCE

0	TO	50,000VOLTS	10 FT. (3.04 meters)
50,000	TO	200,000 VOLTS	15 FT. (4.56 meters)
200,000	TO	350,000 VOLTS	20 FT. (6.08 meters)
350,000	TO	500,000 VOLTS	25 FT. (7.60 meters)
500,000	TO	750,000 VOLTS	35 FT. (10.64 meters)
750,000	TO	1,000,000 VOLTS	45 FT. (13.68 meters)



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If electricity does discharge through the machine, REMAIN IN THE CAB. DO NOT PERMIT ANY PERSONNEL TO COME IN CONTACT WITH THE MACHINE'S STRUCTURE.

Warn all personnel not to approach the machine.

To get away from the point of contact perform an opposite movement from the previous one. To detach from the contact it is necessary to perform a more forcefull movement from the original one.

When you are in a safe position stop the machine and inspect all the main parts before resuming work.

If it is not possible to detach yourself from the line, and the machine has not caught fire, remain in your place until the electric line has been switched off.

DANGER

If the electricity discharges towards the machine remain in the cabine and stop other people from contacting the machine structure.

SMT.0040.E

If you have to leave the machine do not use the steps, but jump away from the machine when possible. The ground around the electrified machine is aslo electrified in different intensities. Get away by jumping with both feet together. Warn any helpers not to approach unless a dry piece of wood has been placed.

SMT.0041.E00

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OPERATING IN WIND

SMT.0046.E00

This machine has been tested for operating limits in wind, according to ISO 10525 standards (wind speed 40 Km/h. corresponding to degree 6 of the Beaufort scale).

SMT.0046.E00

SCAPPING THE MACHINE

SMT.0047.E00

If the machine has to be taken out of service indefinately it should be completely deactivated and handled by a scrap metal dealer in the area.

If the machine has to be scapped, particular attention should be paid to :

- lubrication
- oil
- glass
- plastic
- battries

SMT.0047.E00

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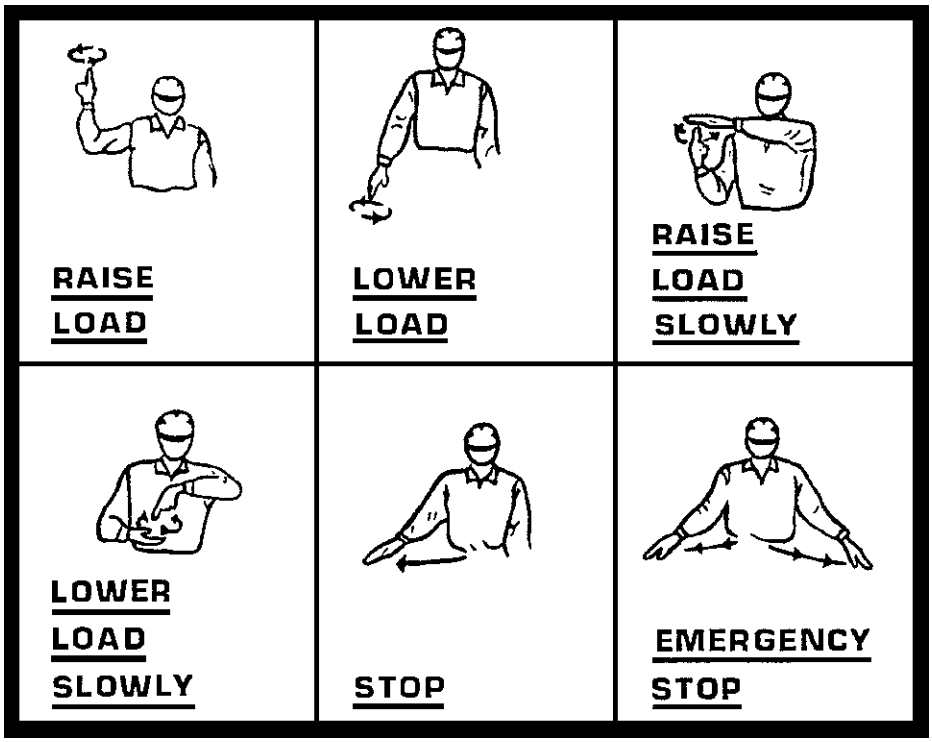
SECTION 3 • GROUNDCREW SAFETY GUIDELINES

COMMUNICATION BETWEEN OPERATOR AND GROUNDCREW

SMT.0048.E00
All directional references are given as viewed from the operator's seated position.

If ground persons are used in conjunction with the operation of this machine, clear and precise communication between the operator and the groundcrew is a must for safe and proficient machine operation.

The following signals are normally used with machine operation. The operator and groundcrew should review them together prior to operating to ensure accurate communication and to establish an "ALL CLEAR FOR MOVING THE MACHINE" signal.
SMT.0048.E00



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RECOMMENDED SAFETY GUIDELINES FOR GROUNDCREW

SMT.0049.E00

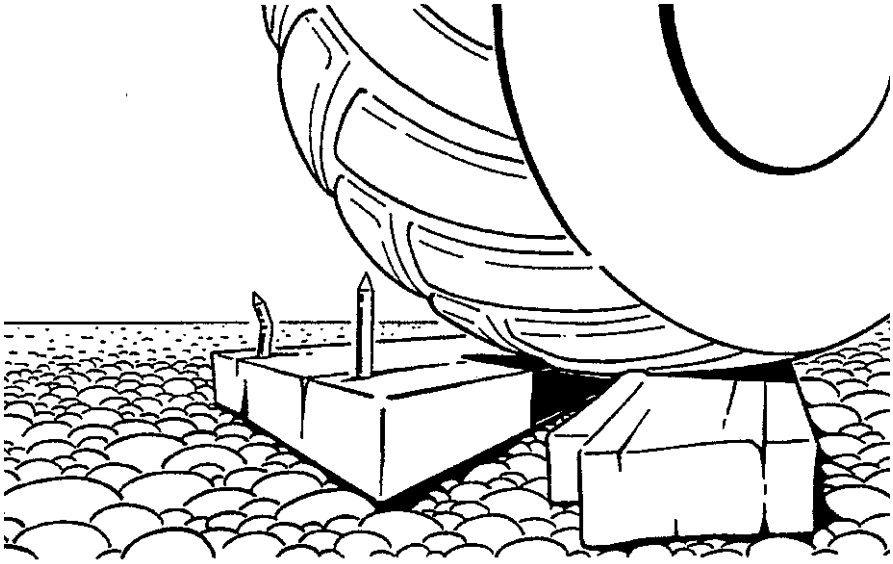
The operator and the groundcrew (if used) must be in constant communication with each other at all times. Review the communication system to be used before starting. Both persons must know the proper hand signals for each movement of the machine or load.

If ground persons are utilized in conjunction with the operation of this machine, do not move the machine without the proper signal from your groundcrew. The groundcrew must be in the operator's view at all times. The operator must stop the machine if the groundcrew disappears from his view.

The operator and the groundcrew are to ensure that ALL ground personnel are out of the machine's entire hoist working area before hoisting a load and that the area remains clear of personnel until the load is lowered safely to a suitable resting place.

The groundcrew, if used, must keep the machine's operating area free from debris that could cause tire damage that may result in a tire blow-out and possible damage to equipment.

SMT.0049.E00



1021

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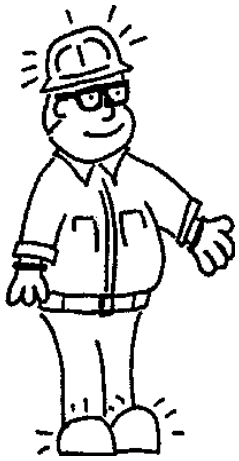
RESPONSIBILITIES OF THE GROUNDCREW FOR SAFE OPERATION

SMT.0051.E00

When groundcrew personnel are used in conjunction with the operation of this machine, they are the eyes and ears of the machine operator. The machine, like any other equipment, can be DANGEROUS if not operated properly. Before working around the machine, the groundcrew is to be properly trained and are to understand all of their responsibilities related to the machine's operation.

The following are suggested responsibilities. There may be more. It is the responsibility of the equipment user to establish the policies.

1. Wear proper protective clothing and equipment when working around the machine; hard hat, safety shoes, safety glasses, hearing protection, reflective vest or reflective clothing, gloves, etc. as established by your employer's safety policy.



1009

IMPORTANT: It is the employer's responsibility to implement all precautions to provide the employee(s) with all safety devices or means that may be necessary or be required for any particular use: Operations, Set-up or Service. SMT.0050.E00

2. Give proper operation signals.

3. Do not give the operator a signal to move the machine until you and other ground personnel are clear of all moving parts.

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4. Know at all times where other groundcrew members are before signaling the operator.

5. Never ride on any part of the machine other than designated seating areas.

6. Never walk or stand under suspended loads. If a load will be traveling over you, move a safe distance away.

7. Be sure you check with the operator and make certain that he understands the safety rules for groundcrew.

8. Do not stand between the machine and other obstructions or equipment.

9. Never ride on the load, or hang from any attachment.

10. Always stay clear of „blind spots“ and stand in full view of the operator or be in constant radio communication with him.

11. Do not get closer than 6 ft. of the wheels of the machine when the machine is moving. Stay clear of the steer wheels.

12. The groundcrew should be aware of other people in the area and warn them that the machine is approaching them.

13. Do not turn your back on the machine. Always face it and keep it in full view at all times.

SMT.0051.E00

DANGER

Stacks of containers or materials can cause “blind spots” for the operator. It is essential, for safe operation, that the groundcrew stay clear of “blind spots” and stay within sight of the operator at all times. SMT.0052.E00

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SECTION 4 • OPERATOR'S CONTROLS

INDEX:

INTRODUCTION
INSTRUMENT AND CONTROL CAB LOCATION AND FUNCTION

INTRODUCTION

SMT.0067.E00
The following illustrations and explanations point out and describe the controls and indicators used by the operator. The indicators may be lights or sounding devices. The controls may be buttons, levers, knobs or keys.

IMPORTANT: Instrument readings, as indicated in this manual are based on normal operating conditions. If the actual readings are different than indicated as proper, shut down the machine and engine as soon as it is safe to do so, and report the situation to appropriate maintenance personnel.
SMT.0067.E00

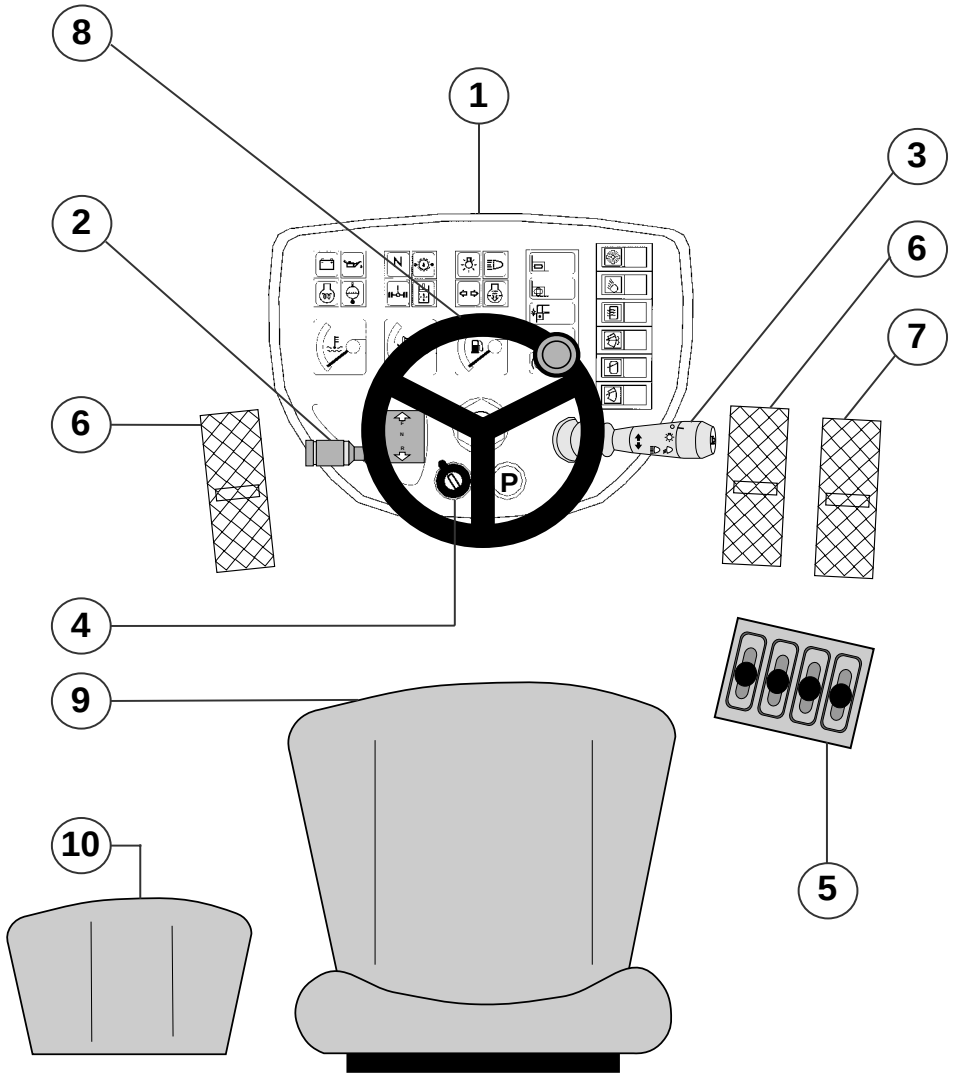
> ⚠ **WARNING**
>
> **Do not attempt to operate this machine before knowing and understanding all of the safety and operating information in this manual.** SMT.0068.E00

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INSTRUMENT AND CONTROL LOCATION

1 INSTRUMENT PANEL
2 INDICATOR / HORN / DRIVE LIGHTS LEVER
3 GEAR SELECTOR
4 SEAT
5 2nd SEAT
6 JOYSTICK
7 BRAKE PEDAL
8 ACCELERATOR PEDAL
9 SPREADER EMERGENCY KEY
10 PARKING BRAKE
11 STEERING WHEEL

SMT.0319.E00



2130

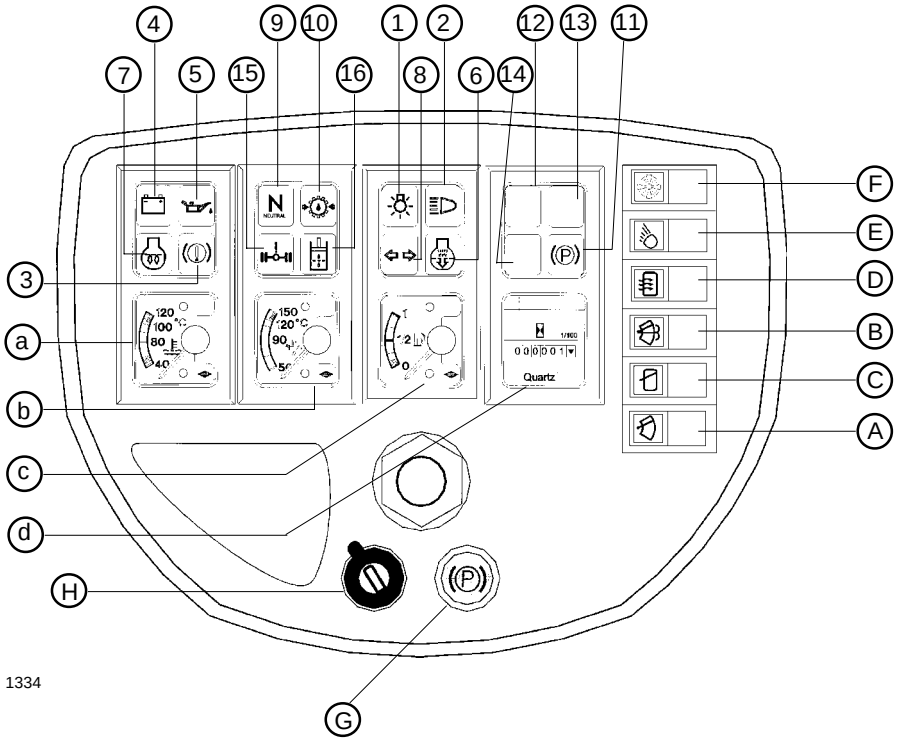
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INSTRUMENT PANEL

SMT.0070.E00

The instrument panel is made from impact resistant, anti-reflective material. All symbols utilized conform to ISO standards.

SMT.0070.E00



1334

INSTRUMENTS

a Engine coolant temperature
b Transmission oiltemperature
c Fuel level
d Hourmeter

PUSH BUTTONS WITH WARNING LIGHT

A Front windshield wiper (low speed)
B Front windshield wiper and washer (high speed)
C Rear windshield wiper
D Heater windows
E Working lights
F Heater fan (2 speed)
G Parking brake
H Spreader emergency key Switch

PANEL LIGHTSPANEL LIGHTS

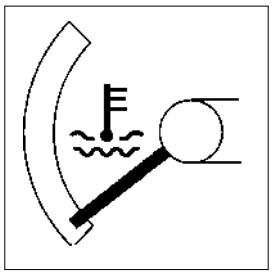
1 Parking lights and low beams
2 High beam
3 Brake oil low pressure
4 Alternator charge indicator
5 Engine oil low pressure
6 Air filter clogged
7 Glow plugs
8 Turn indicator
9 Neutral
10 Transmission oil low pressure
11 Parking brake on
12 Spreader red light (unlatched)
13 Spreader amber light (latched)
14 Spreader green light (in position)
15 Differential lock (optional)
16 Oil filter clogged

SMT.0320.E00

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INSTRUMENTS

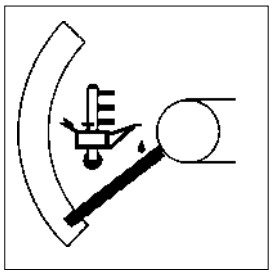
a - Engine coolant thermometer



1181

Function:
Indicates coolant temperature.
Note:
The coolant temperature should be within the range 176° to 194° F (80° to 90° C). Do not use the vehicle at full power if the temperature is below 122° F (50° C).
SMT.0072.E01

b - Transmission oil temperature

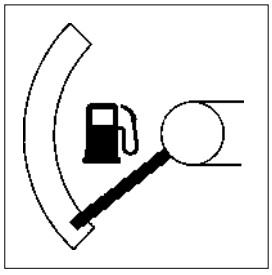


1182

Function:
Indicates the transmission oil temperature.
Note:
Scale: 106 to 284° F (50 at 150° C).
For the transmission to function correctly, the oil temperature should be within the range of 180 to 200° F (82.3° to 93.3° C). Do not use the machine at full power until the temperature reaches the minimum value of 180° F (82.3° C). When travelling over long distances [0.625 miles (1Km) or more], the oil temperature may rise above the maximum recommended for normal operation of 200° F (93.3° C). SMT.0066.E00

CAUTION
Never use the machine if the temperature rises above 230¡ F (110¡ C). SMT.0073.E00

c - Fuel level indicator



1183

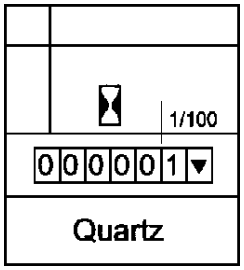
Function:
Indicates the fuel level.
Note:
The capacity of the fuel tank is sufficient for approx. 24 hours operation. When only the 0 sector remains lit, refill the tank.

SMT.0074.E01

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INSTRUMENTS

d - Hour counter

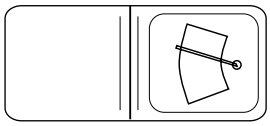


1335

Function:
Machine's work-hours. SMT.0065.E01

CONTROL SWITCHES

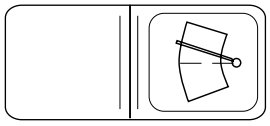
A - Front windshield wiper and washer (low speed)


1031

Function:
Operate the front windshield wiper at low speed.
Pressing this switch when the wipers are working operates the wash pump.
Note:
The windshield wiper motor is fitted with a thermal cutout. Should this cutout trip, wait a few minutes before using the wipers. The main reason for cutout intervention is to prevent using the wiper on dry glass.

SMT.0075.E00

B - Front windshield wiper and washer (high speed)

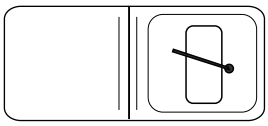

1032

Function:
Operate the front windshield wiper at high speed. Pressing this switch when the wipers are working operates the wash pump.
Note:
This circuit has a thermal cutout which will disable the motor in case of overload resulting, for example, from using the wiper on dry glass.
Add an antifreeze to the wash liquid when the external temperature drops below 32° F (0° C). SMT.0076.E00

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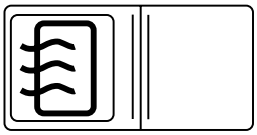
CONTROL SWITCHES

C - Rear windshield wiper


1033

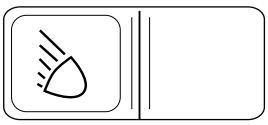
Function:
Operate the rear windshield wiper.
SMT.0077.E00

D - Window Defrosters


1184

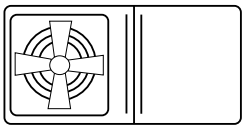
Function :
Switches on the window defrosters.
SMT.0078.E00

E - Work light switch


1035

Function:
Switches on the working lights.
Note:
Essential when working in poorly lit areas. If the lights do not work, check the condition of the relative fuse and bulb.
SMT.0079.E00

F - Heater fan (2 speed)


1185



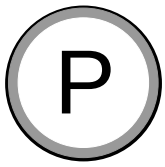
1037

Function:
Switches on the cab heater fan.
1 - low speed
2 - high speed
Note:
This switch is not connected in cabs with air-conditioning.
SMT.0080.E00

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CONTROL SWITCHES

G - Parking brake button

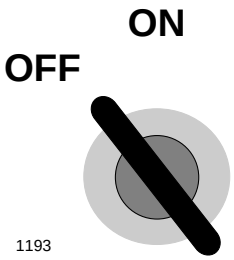


1060

Operation:
Apply the parking brake by pressing the button next to the control levers. The light in the button will illuminate.
Note:
Always apply the parking brake and switch off the engine before leaving the vehicle.
SMT.0101.E01

> ⚠ **WARNING**
>
> **Operating the vehicle with the parking brake on can cause brake failure.** SMT.0093.E00

H - SPREADER EMERGENCY KEY



1193

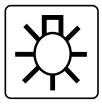
Function:
To override the spreader safety interlocks, turn the key to right. This allows the twistlocks to be latched/unlatched, without reference to the seating .
Note: The switch key should be kept in the Service Supervisor's office.
SMT.0308.E00

> ⚠ **Warning**
>
> **Only use this key under supervised lift conditions. When this key is activated, the panel light is on. The safety interlocks must only be overriden in cases of extreme necessity, with the supervisor's authorization, and only when there is no risk of danger or injury to personnel.** SMT.0200.E00

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INSTRUMENTS (indicator lights)

1 - Parking lights


1186

Function:
Indicates that the parking lights are on.

SMT.0081.E00

2 - Headlights


1039

Function:
Indicates that the headlights are on. **SMT.0284.E00**

3 - Low brake oil pressure indicator

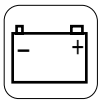

1187

Function:
Indicates a loss of pressure in the braking circuit
Note:
If the warning light stays on for more than a few seconds after starting the engine, seek technical assistance.

SMT.0083.E01

> **⚠ WARNING**
>
> In no circumstances use the vehicle if this warning light is on. Lack of pressure reduces braking efficiency. **SMT.0084.E00**

4 - Battery recharge fault indicator



1041

Function:
Indicates that the generator is not charging the battery.
Note:
with the key turned to pos. 1 in the ignition, the battery charging light is normally illuminated. When the motor starts the light should go out. If not, seek technical assistance. Do not attempt to use the vehicle without having corrected the fault, as this may damage the batteries.

SMT.0085.E01

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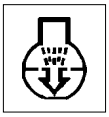
INSTRUMENTS (indicator lights)

5 - Low motor oil pressure indicator


1042

Function:
Indicates lack of oil pressure in the engine.
Note:
When the ignition key is turned to position 1, this light will normally be on. It should go out when the engine is started. If not, stop the engine. If the problem persists, seek technical assistance. NEVER use the vehicle if this warning light is on. SMT.0086.E01

6 - Blocked air filter indicator


1188

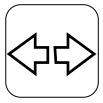
Function:
Indicates that the air filter is clogged.
Note:
If the light stays on, seek technical assistance. Do not operate the machine until the malfunction is resolved. SMT.0087.E01

7 - Glow plug preheating indicator


1189

Use:
Preheat the glow plugs before starting the motor, for not longer than 5 secs.
SMT.0088.E01

8 - Direction indicators working indicator


1045

Function:
Indicates that one of the turn indicators is on. SMT.0089.E01

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INSTRUMENTS (indicator lights)

9 - Neutral gear engaged indicator

1046 

Function:
Indicates that the gear selector is in neutral.
Note:
The engine will not start if the vehicle is in gear, therefore always check that this light is illuminated before starting the engine. If the engine still does not start even when this light is on, check that the transmission is in fact in neutral.
SMT.0090.E01

10 - Low transmission oil level indicator

1047 

Function:
It indicates the lack of oil in the transmission.
Note:
If this light stays on, check the transmission oil level by way of the sight glass.
Do NOT use the vehicle if this warming light is on.
SMT.0091.E01

11 - Parking brake indicator

1048 

Function:
Indicates that the parking brake is on.
Note:
This light must not be on when starting to drive. If the light remains on after releasing the parking brake, seek technical assistance.
Do NOT drive the vehicle without having first corrected the fault as this could damage the braking system. SMT.0092.E01

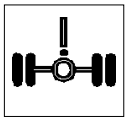
⚠ WARNING

Operating the vehicle with the parking brake on can cause brake failure. SMT.0093.E00

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INSTRUMENTS (indicator lights)

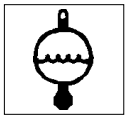
15 - **Differential lock** (optional)


1190

Function:
Indicates the differential lock insertion.
Note:
Before insert the differential lock stop the machine and press the pushbutton on dashboard. When the machine is out of the critical situation stop the machine and release the differential lock pushbutton.

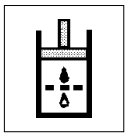
SMT.0251.E00

16 - **High temperature cooling system**


1191

Function:
Indicates high temperature cooling system.
NOTE
If the warning light stays on, check the cooling level.
Do NOT use the vehicle if this warning light is on.
SMT.0326.E00

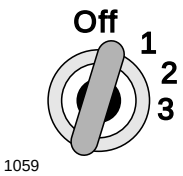
17 - **Blocked oil filter indicator**


1192

Function:
Indicates the oil filter clogged.
Note:
If the light stays on, seek technical assistance.
Do NOT use the vehicle if this warning light is on.

SMT.0266.E01

KEY OPERATED IGNITION SWITCH

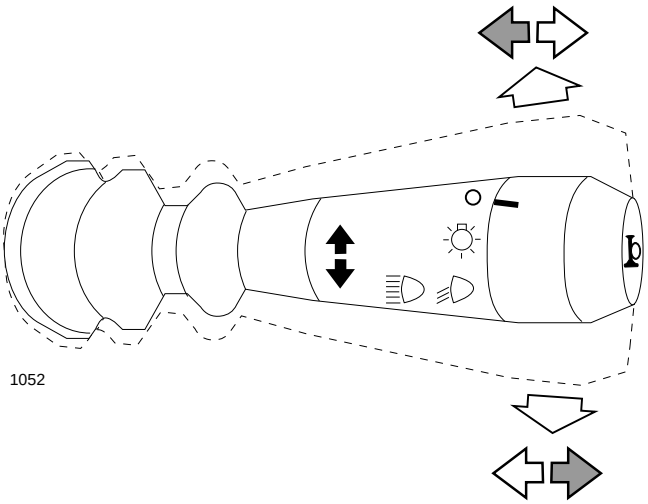


1059

Function:
OFF - all power circuits off, the key can be removed.
1 - controls and instruments on.
2 - engine glow plug pre-heating
(leave in this position for approx. 25-30 sec.).
3 - start engine (automatic return to position 1).
Note:
If the engine does not start at the first attempt, select pre-heating by turning the key to position 2, wait 25-30 seconds then try to start the engine again.
SMT.0100.E00

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DIRECTION INDICATOR - HORN - LIGHTS LEVER

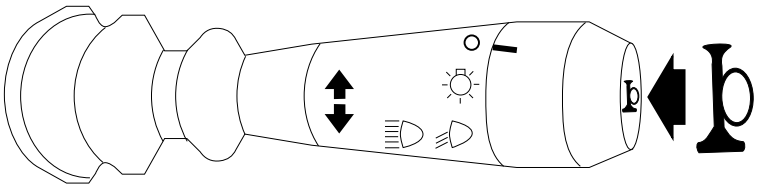


1052

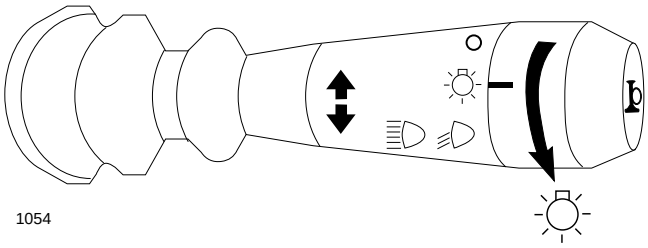
Function:
Push forward the lever to indicate left;

Pull the lever back to indicate right.

Function:
Push the lever tip to activate the horn.



1053

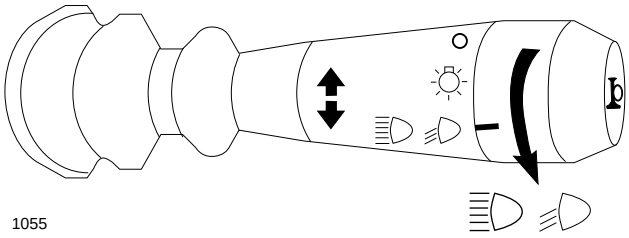


1054

Function:
To switch on the parking light rotate the lever to position (I).

To switch on the low beam headlights rotate the lever to position (II).

To switch on the high beam headlights rotate the lever to position (II) and lower the lever.



1055

NOTE: To blink move the lever repeatedly upwards.

SMT.0253.E00

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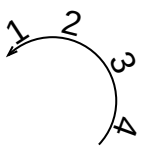
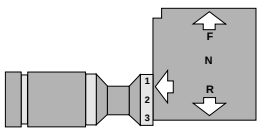
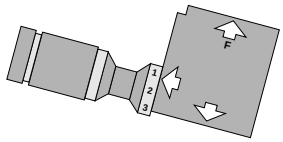
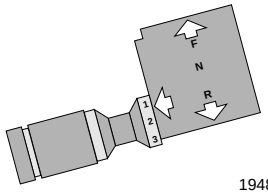
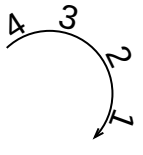
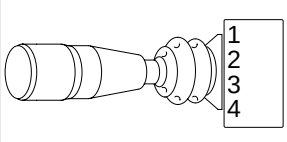
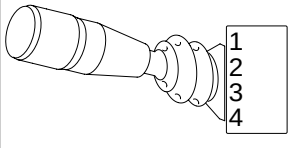
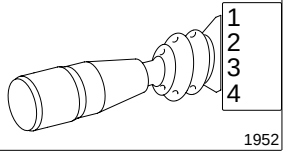
GEAR SELECTOR

Important: a safety device prevents the motor from being started unless the gear switch is in neutral position. Before engaging the forward or reverse gear, make sure the lever is in 1st gear position.

The truck features an automatic gear change, but can also operate in manual mode by means of the transmission bypass key (see key paragraph).

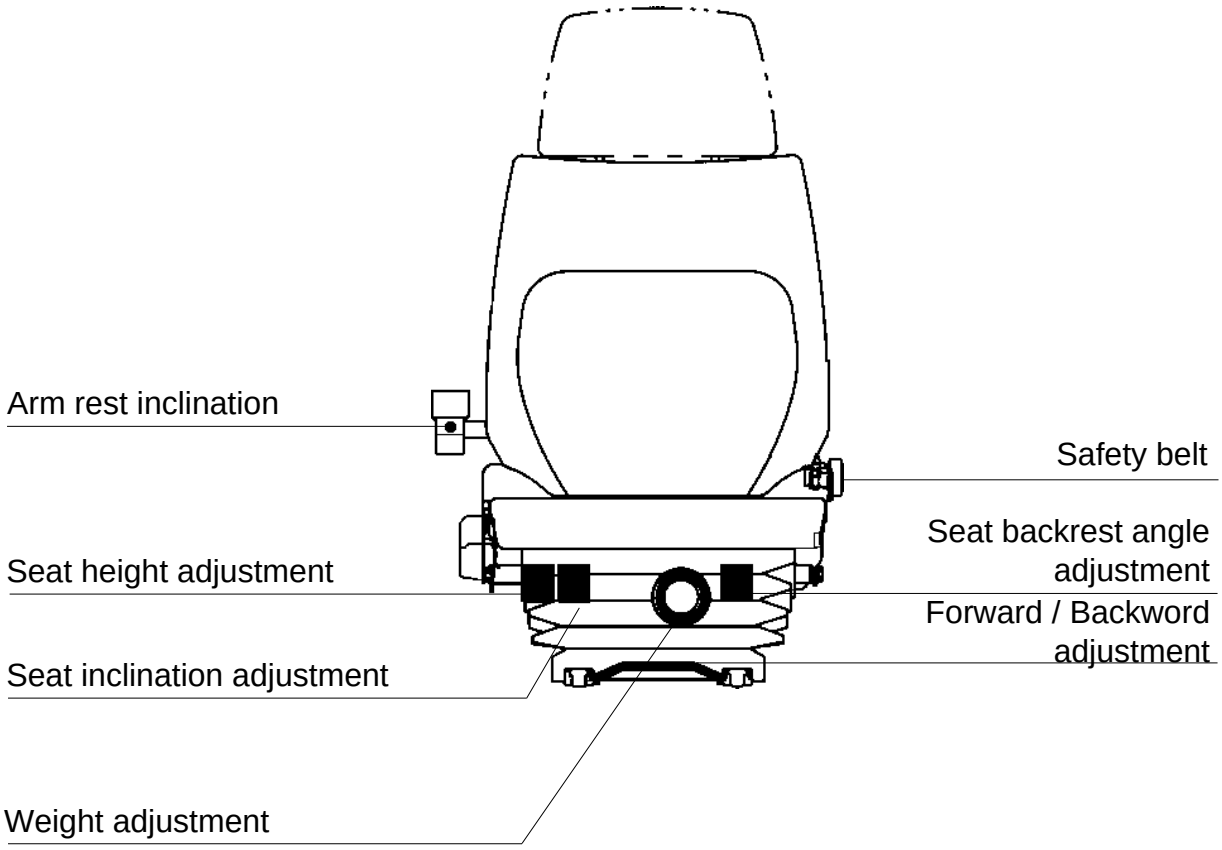
Manual operation:
To engage 1st to 4th gears, turn the lever as shown in fig.1, while to drop from 4th to 1st, turn the lever in the opposite direction.
Every click completed in turning the lever corresponds to a gear change.
The gear switch is in neutral position when it is configured as shown in fig.2
Move the switch as shown in fig.3 to engage the forward gear.
Move the switch as in fig. 4 to engage reverse gear.

Automatic operation:
Operation in this mode is similar to manual mode. The difference is that after having engaged the forward or reverse gears, there is no need to turn the lever to change gear.
The number of gears the gear unit can engage automatically depends on the position of the gear switch.
Example:
If the switch is turned in second gear, the gears engaged automatically will be 1st and 2nd, while the 3rd and 4th gears will not engage.
SMT.0544.E00

	Fig. 1	Fig. 2	Fig. 3	Fig. 4
				 1948
				 1952

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SEAT ADJUSTMENTS



1. **Adjusting seat height**
   Turn the knob anticlockwise to lift the seat.
   Turn the knob clockwise to lower the seat.

2. **Adjusting the seat dampers**
   Push the lever to the right to increase damper resistance.
   Push the lever to the left to reduce damper resistance.

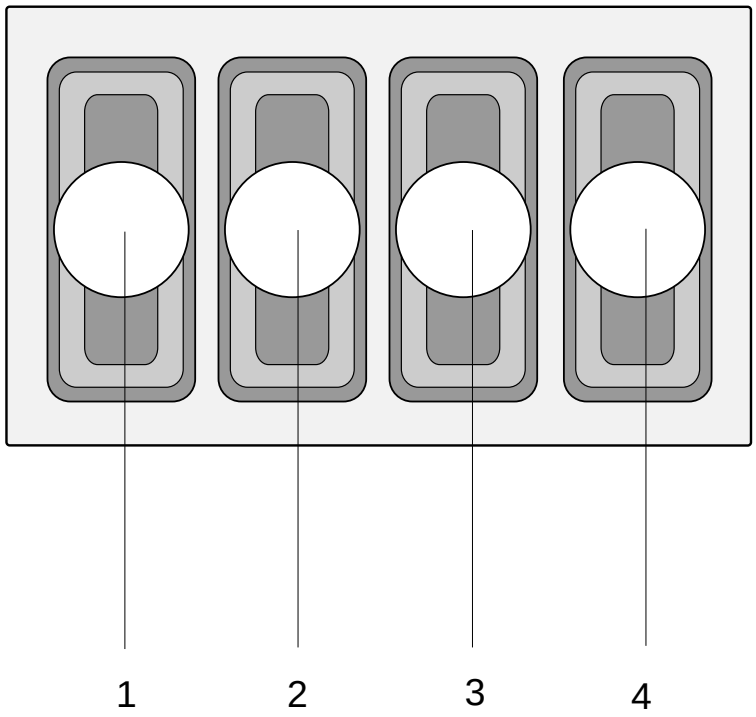
3. **Distance of seat from control panel**
   Lift the metal bar and slide the seat.

4. **Inclining the seat back**
   Lift the lever and regulate the back position as required.

SMT.0254.E01

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CONTROL DASHBOARD



1 - RAISING / LOWERING FORKS

2 - MAST TILTING CONTROLS

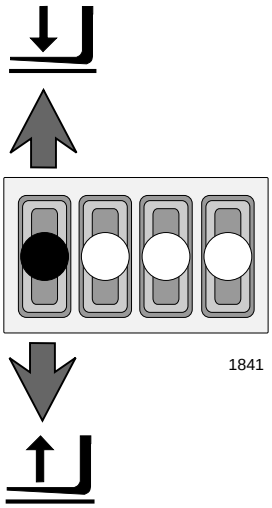
3 - CARRIAGE SIDESHIFT

4 - FORK POSITIONING

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CONTROL DASHBOARD (Continued)

Raising – Lowering forks

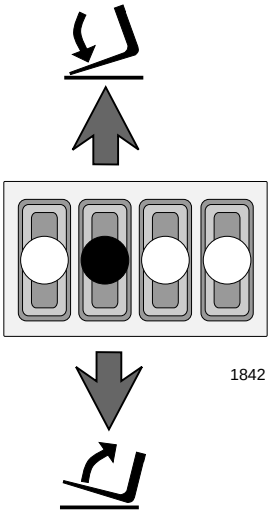


Lower
Push the lever to lower the forks.
NOTE: Moderate the speed when lowering the forks to avoid an abrupt stop, which could put excessive strain on the mast.

Raise
Pull the lever to lift the forks.
NOTE: Reduce the speed when the forks approaches the limit of its travel to avoid an abrupt stop.

SMT.0459.E00

Mast tilting controls



Forward tilting
Push the lever to tilt the mast forward.
NOTE: Tilt the mast forward only to facilitate load engament in particular operating conditions.

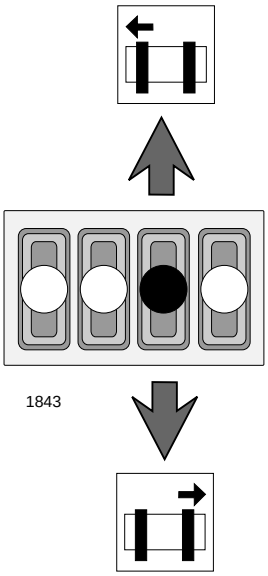
Backward tilting
Pull the lever to tilt the mast backward.
NOTE: Tilting the mast backward improves stability when transporting loads.

SMT.0460.E00

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CONTROL DASHBOARD (Continued)

Carriage Sideshifting

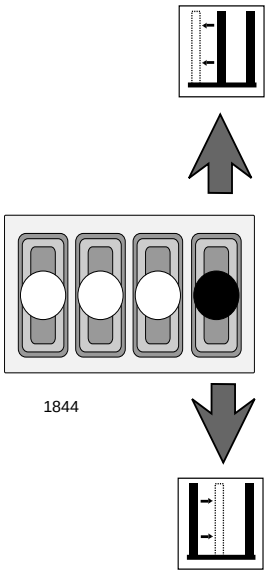


Function
Push the lever to sideshift the carriage leftwards.
Pull the lever to sideshift the carriage rightwards.

NOTE: This operation allow to center the load.

SMT.0462.E00

Fork Positioning



Function:
Push the lever to move the fork to leftwards.
Pull the lever to move the fork to rightwards.

NOTE: It is possible positioning only the left fork and it can be positioned in every point on the fork plate.

SMT.0461.E00

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NOTE

https://truckmanualshub.com/

SECTION 5 • OPERATING PROCEDURES

INDEX:

INTRODUCTION
PRE-OPERATIONAL INSPECTION
ENGINE START-UP PROCEDURE
WARM-UP PROCEDURE
DRIVE
TRAVELING
STEERING
LOAD HANDLING
STOPPING THE ENGINE
PARKING PROCEDURE

INTRODUCTION

SMT.0114.E00

There are certain operating procedures for this machine that must be followed for safe, efficient operation. These procedures are simple, yet important. They are based on common sense and incorporate the design characteristics of the machine.

FANTUZZI-REGGIANE Spa does not recommend the operation of any function other than steering while driving (traveling) this machine. It is imperative that the operator's attention not be diverted away from the moving of the machine.

I**MPORTANT:** Be sure you follow the start-up and warm-up procedures when placing the machine into service.

SMT.0114.E00

WARNING

When operating this machine, if any abnormal condition in its operation occurs, move the machine to a safe parking area, if possible, and when safe to do so, shut down the machine and notify appropriate maintenance personnel. SMT.0115.E00

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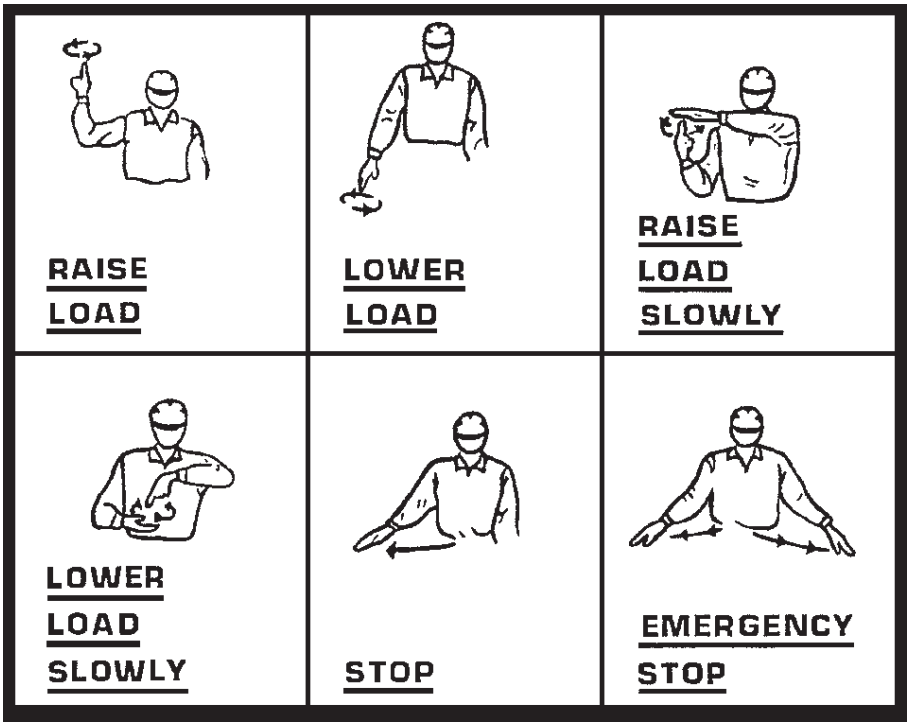
WARNING

Electrical, mechanical, and hydraulic safety devices have been installed on this machine to help protect against personal injury and/or damage to equipment. Under no circumstances should any attempt be made to disconnect or in any way render any of these devices inoperative. If a malfunction of any safety device is discovered to exist, DO NOT operate the machine. Immediately notify appropriate maintenance personnel, otherwise serious personal injury or death could result. SMT.0116.E00

SMT.0117.E00

IMPORTANT: If ground persons are used in conjunction with the operator of this machine, clear and precise communication between the operator and groundcrew is a must for safe and proficient machine operation.The following signals are normally used with machine operation. The operator and groundcrew should review them together prior to operating to ensure accurate communication and to establish an "ALL CLEAR FOR MOVING THE MACHINE" signal.

SMT.0117.E00



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PRE-OPERATIONAL INSPECTION

SMT.0118.E00

The following inspections are to be performed prior to each shift. You must know how to properly do these. These inspections may be performed by either the maintenance personnel or by you, the operator. In either case, it is your responsibility to be sure that the machine is ready for operation prior to starting. Instructions for making the checks are provided on the following pages.

NOTE: If maintenance tasks are to be performed, refer to the appropriate service manual for your machine.

Prior to starting the engine:

Engine Crankcase	Check oil level.
Radiator	Check coolant level.
Hydraulic Reservoir	Check oil level.
Oil Leaks	Visually check for oil leaks
Structure-Chassis & Spreader	Check for loose or missing Fasteners, cracks and deformation.
Tires	Check general condition and pressure appears low.
Operator's Cab	Clean thoroughly, including windows.
Fire Extinguisher(s)	Check for full charge.

After starting the engine (running at idle)

Hydraulic Filters	Check visual indicators (if available).
Transmission Oil	Check oil level (warm).
Fuel Tank	Check fuel level (*).
Lights	Check work, drive and indicator lights for proper operation.
Warning Devices	Check horn, strobe lights, & Back-up alarm for proper operation.
Windshield Wipers	Check for proper operation
Operator's Controls	Check for proper operation
Brakes	Be sure they operate before driving (traveling).
Dash display	Check all indicator lights and gauges for proper operation of respective systems.
Unusual sounds	Listen for unusual sounds or noises from engine, transmission or hydraulic system.

(*) The fuel tank should be filled at the end of each day or shift.

SMT.0118.E00

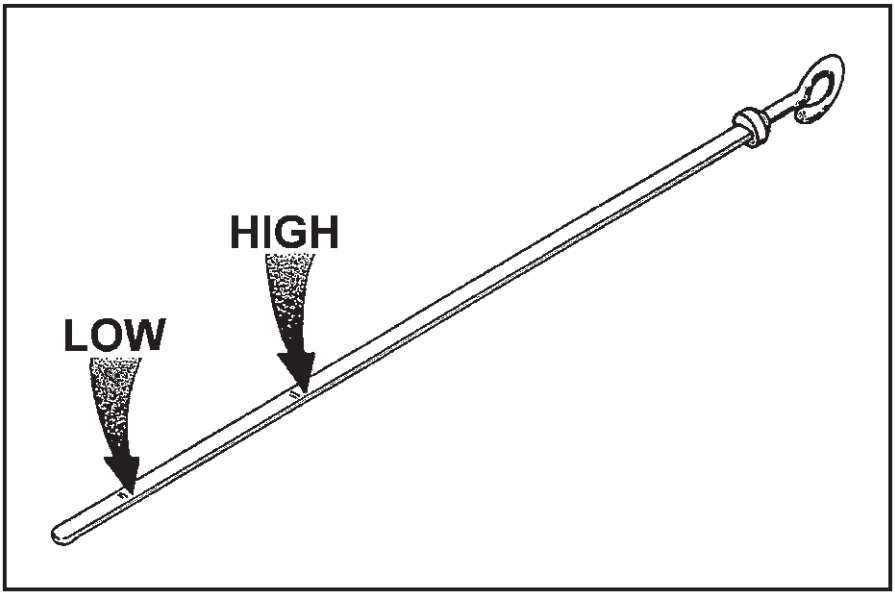
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Motor Oil Level

SMT.0119.E01
The motor oil level must be checked every day.

NOTE: A 15 minute drain back time is required if the engine has been running.

The oil level must be maintained between the "H" (high) mark and the "L" (low) mark, but as close to the "H" mark as possible.
SMT.0119.E01



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CAUTION

Never operate the engine with the oil level below the "L" (low) mark or above the "H" (high) mark. Refer to the engine's OPERATION and MAINTENANCE manual for detailed engine service. SMT.0120.E01

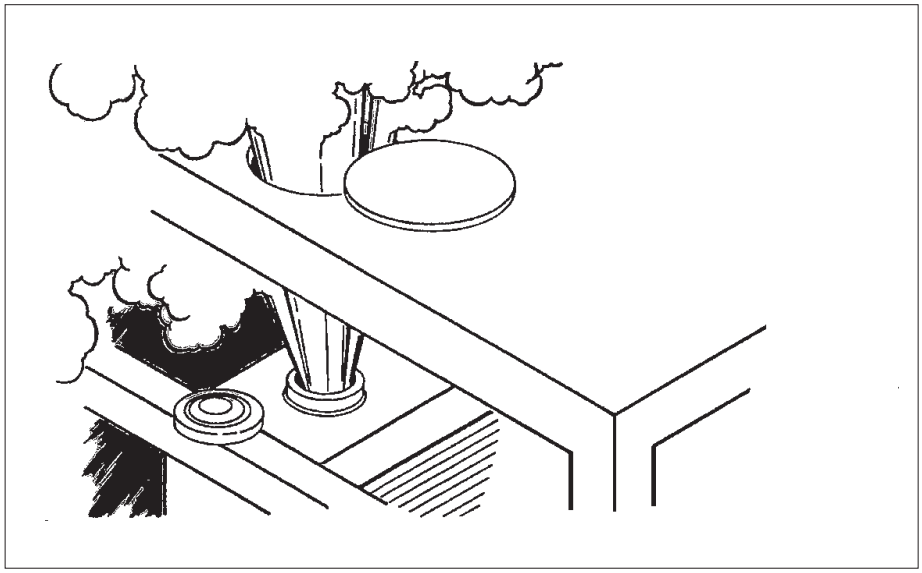
https://truckmanualshub.com/

Motor coolant level

Sight check the level of the coolant in the tank.
Perform the inspection when the motor is cold and make sure the level is between minimum and maximum.
SMT.0121.E01

WARNING

Do NOT remove the radiator cap or the filler cap if the engine is hot. The coolant will be under pressure and can escape with explosive force. To prevent burns, remove the radiator cap or filler cap only when the engine is cool. SMT.0122.E00



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Hydraulic Oil Level

SMT.0123.E00
The hydraulic oil reservoir is located on the chassis to the right of the driver's seat. Check the level of the hydraulic oil with the motor switched off. Make sure the level reaches the top notch. Before topping up, make sure the area around the filler cap is clean. Only use oil taken from a clean container.
SMT.0123.E00

WARNING

Do not check or change the hydraulic oil level before it has cooled down. SMT.0124.E00

WARNING

Do not do any welding or have oxyhydrogen welding flames near the hydraulic oil tank. SMT.0125.E00

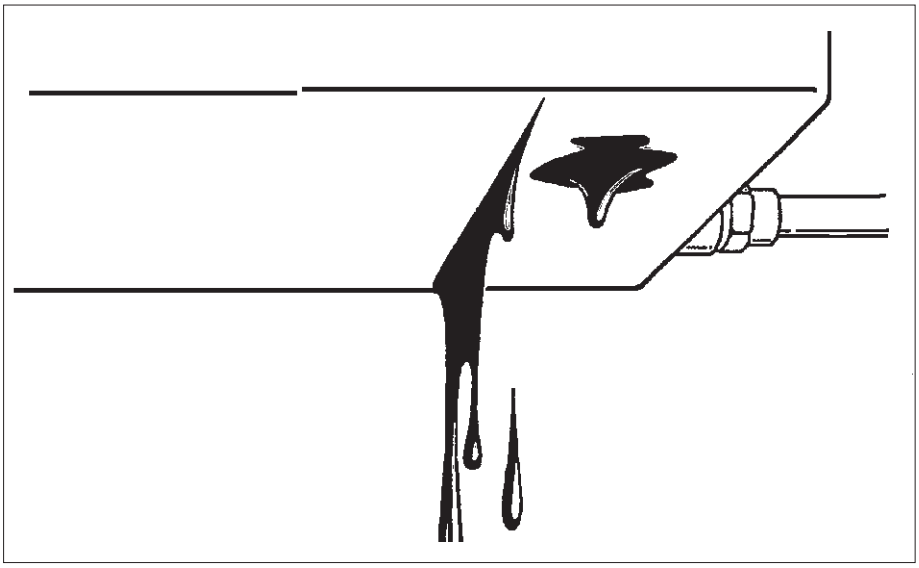
Transmission oil level

Check the oil level every day, at a temperature between 82 – 93 °C with motor running at low revs. The oil level should always be at the FULL reference mark.
SMT.0126.E01

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Leaks

SMT.0128.E01
Make a sight check of the machine to find any oil or liquid leaks. All leaks must be reported to appropriate maintenance personnel.
SMT.0128.E01



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Fuel tank

At the end of each work shift, fill up with diesel fuel.
SMT.0131.E01

DANGER

Be sure that there are no sparks, flames, or other ignition sources present when refueling. A deadly explosion can result if proper precautions are not taken. SMT.0132.E00

WARNING

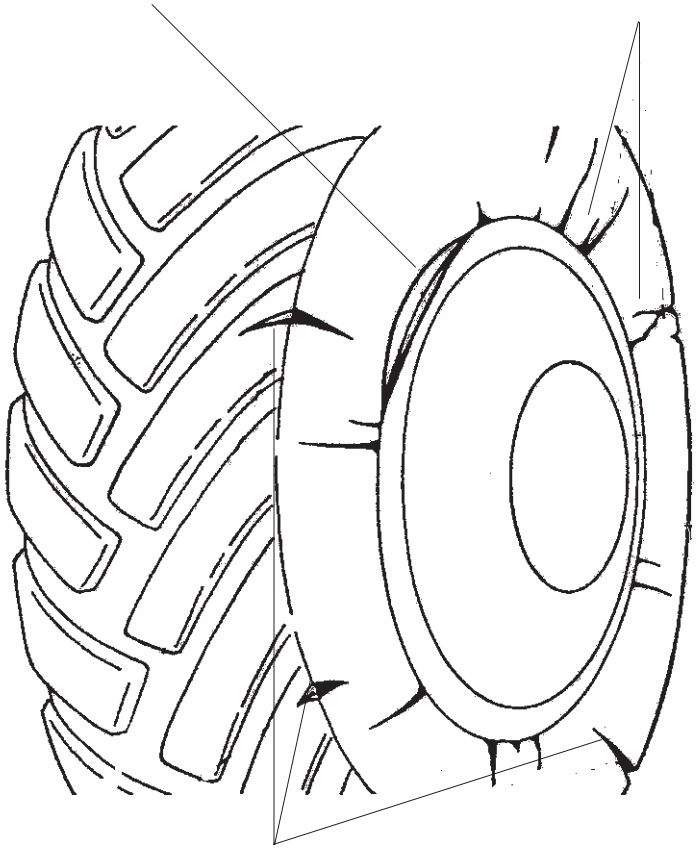
Do not do any welding or have oxyhydrogen welding flames near the fuel tank. SMT.0135.E00

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Tyres

Carry out a sight check of the pressure, the tread and the sides of the tyres. In case of faults, the tyre will have to be carefully inspected by maintenance personnel before being used. Also make sure that the rim and hub cap are not deformed.

SMT.0136.E01



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WARNING

A dislodged locking ring or exploding tire can be deadly to anyone close to the tire or in the path of the dislodged, flying ring. Only properly trained persons are to service the tires.

SMT.0137.E00

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Operator's Cab

SMT.0138.E01

Clean thoroughly after each shift, including the windows and mirrors. See Remove all personal articles and trash to avoid its interfering with the operation of the equipment.

SMT.0138.E01

Operator's Controls

SMT.0144.E00

Check the operator's control levers for smooth operation. All control levers should return to neutral freely. There should not be any excessive play in the control levers. Notify the appropriate maintenance personnel if any of these are not OK.

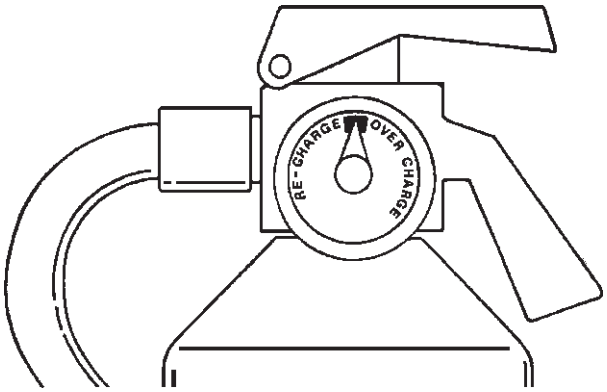
SMT.0144.E00

Dry powder fire extinguisher (optional)

SMT.0139.E00

Make certain the extinguisher is in its designated location, clearly visible and ready for immediate use; there must be no obstructions hindering access. Check that the appliance itself has not been interfered with or rendered unusable, also that the safety seal preventing accidental operation is in place and the tamper indicators are intact.
Nameplates and labels must be exposed to view and clearly legible.
The extinguisher must be in faultless working order: no clogging of nozzles, no leakage, no traces of corrosion, hoses securely connected and with no signs of cracking.
The pressure gauge must indicate a value within the green sector; if not, notify the maintenance service. The fire extinguisher must be refilled every 36 months.

SMT.0139.E00



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Structure

Carry out a sight check of the machine component parts. In the event of faults being found in the welded joints, or other faults in the structural load supporting component parts, do not operate the machine and inform maintenance personnel.

SMT.0133.E01

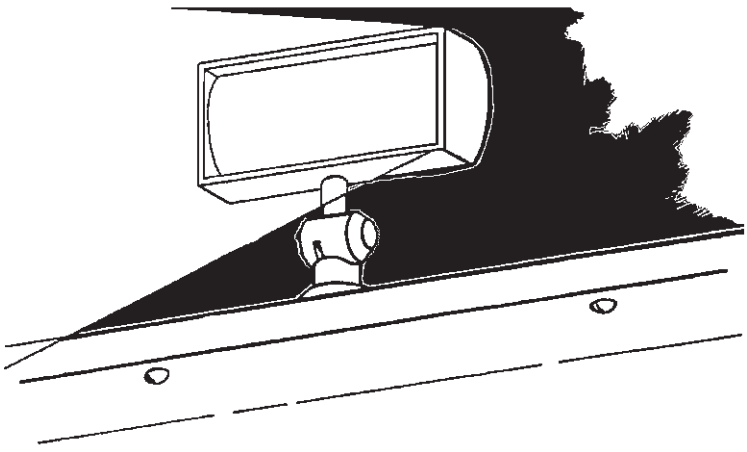
DANGER

Do not pour inflammable liquids on hot surfaces in order to avoid fires and explosions which can damage the machine or injure the operator. SMT.0130.E00

Lights

Check correct operation of the working lights, circulation lights and lights inside the cab, especially in the case of night work. In the event of faults, inform the maintenance personnel.

SMT.0140.E01



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WARNING

Do not operate when the visibility has deteriorated or obstructed due to weather conditions, smoke or other causes. SMT.0141.E00

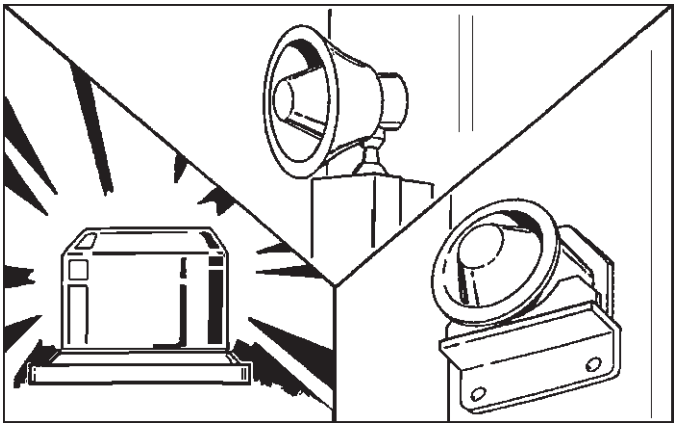
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Warning Devices

SMT.0142.E00

Warning devices are to alert ground personnel of the machine's movement. Be sure the horn, strobe lights, and back-up alarm are operating properly. The ignition key should be in the ON position to check these devices. To check the back-up alarm, reverse must be selected. However, it is not necessary to start the engine.

SMT.0142.E00



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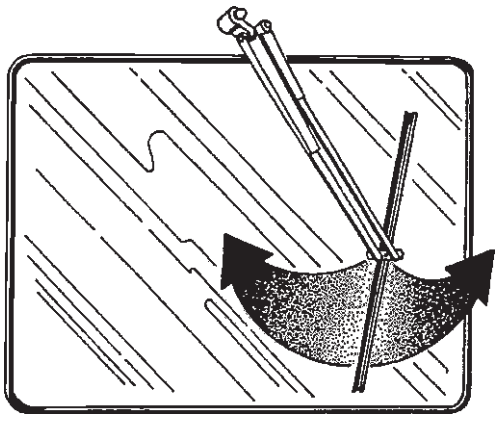
Windshield Wipers

SMT.0143.E00

Check the windshield wipers for proper operation.

NOTE: Do not run the windshield wipers on a dry windshield to prevent scratches and premature failure of the wiper blade.

SMT.0143.E00



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Welding

SMT.0134.E00

If near the welding joins there are cracks in the paint or it is flaking it is important to expose the metal part and check the welding with penetrating liquids or equivalent methods. If there are surface cracks get in touch with the assistance services to carry out the necessary repairs.

SMT.0134.E00

DANGER

Do not carry out any welding operations or use oxyhydrogen welding flames near the fuel tank. SMT.0127.E00

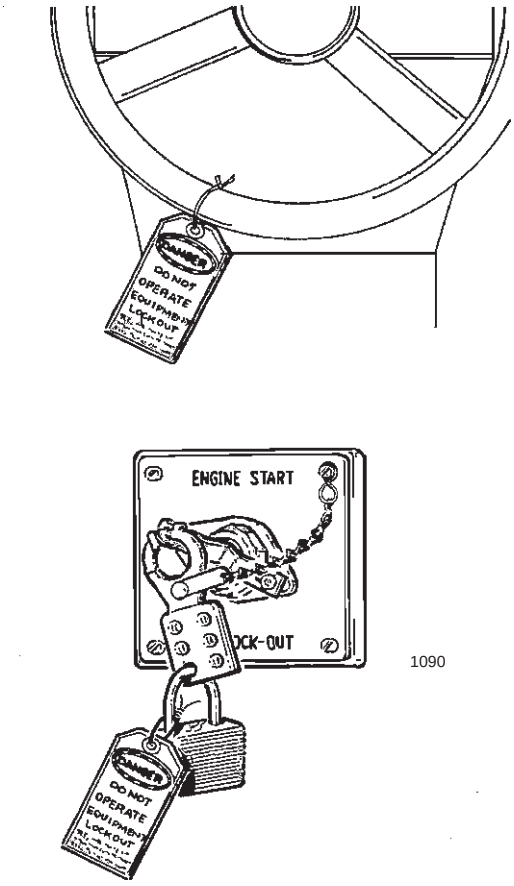
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ENGINE START-UP PROCEDURES

SMT.0146.E00

Do not attempt to start the machine if it has been locked-out by maintenance personnel or if the main power disconnect switch in the battery compartment is in the OFF position. If in doubt, contact the maintenance supervisor.

SMT.0146.E00



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Normal Start

SMT.0148.E00

1. Adjust the seat.

2. Be sure that the parking brake is applied.

3. Place all the control levers in their neutral position.

> **AVVERTENZA**
>
> **Suonare l'avvisatore acustico per avvisare il personale presente nella zona prima di avviare il motore. Accertarsi che nessuno sosti nei pressi della macchina.** SMT.0147.I00

4. Turn the ignition key switch to the START position and hold to start the engine.

IMPORTANT: Do not operate the starting motor for longer than 15 seconds. In case of starting failure wait 10 seconds between one start attempt and another.

SMT.0149.E01

5. Warm up the engine:

   a. Engine and transmission oil pressures should rise immediately on engine start. If the engine and transmission oil pressure warning lights do not go off, STOP the engine and notify the appropriate maintenance personnel.

   b. Temperature gauges will rise more slowly than pressure gauges.

   c. The battery charge indicator should go off after starting to indicate a normal battery charge rate. If not, STOP the engine.

6. Allow the engine coolant temperature to increase to the low end of normal temperature range (approx. 104° F). Do not apply full load before the temperature reaches 176°F.

7. Operate all controls slowly while the engine is warming up. Listen for any unusual noises.

8. When the engine, transmission, and hydraulic system temperatures are in the normal operating range, the machine is ready for use.

9. Test the braking system and then proceed to use the machine, taking all the safety precautions indicated in this manual.

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Cold Weather Start (Below 50°F)

SMT.0151.E01

NOTE: When temperatures are below 50°F (10°C), attention is recommended in starting the engine.

For maximum engine protection and easier starting at low temperatures, take the following precautions:

1. Keep the batteries fully charged.
2. Keep the fuel clean and free of water.
3. Use lubricating oil with correct viscosity for the room temperature range where the engine has to operate.
4. Pre-heat the glow plugs (keep the key in this position for a maximum of 5 seconds).
5. Start the engine.

SMT.0151.E01

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Using Booster Batteries or Starting Generators

If the batteries on the machine are weak or discharged, use booster batteries or a starting generator to start the engine.

IMPORTANT: DO NOT try to start the engine by towing or pushing.

WARNING

Booster batteries should only be connected by personnel who have been specifically trained in their proper use. Failure to connect booster batteries correctly could result in severe personal injury and/or damage to equipment.

SMT.0152.E00

WARNING

Batteries contain sulfuric acid which can cause severe burns. Avoid contact with skin, eyes, or clothing. ANTIDOTES Recommended by Battery Manufacturers: EXTERNAL ANTIDOTE: flush with water. Flush eyes for at least 15 minutes. INTERNAL ANTIDOTE: drink large quantities of water. Do not induce vomiting. CALL A PHYSICIAN IMMEDIATELY AND GET PROMPT ATTENTION!

SMT.0153.E00

WARNING

Batteries produce explosive gasses when being charged or discharged. ALWAYS wear eye protection when using booster batteries and/or starting generators. Batteries can explode if a spark or flame comes near the battery, possibly causing serious injury. SMT.0154.E00

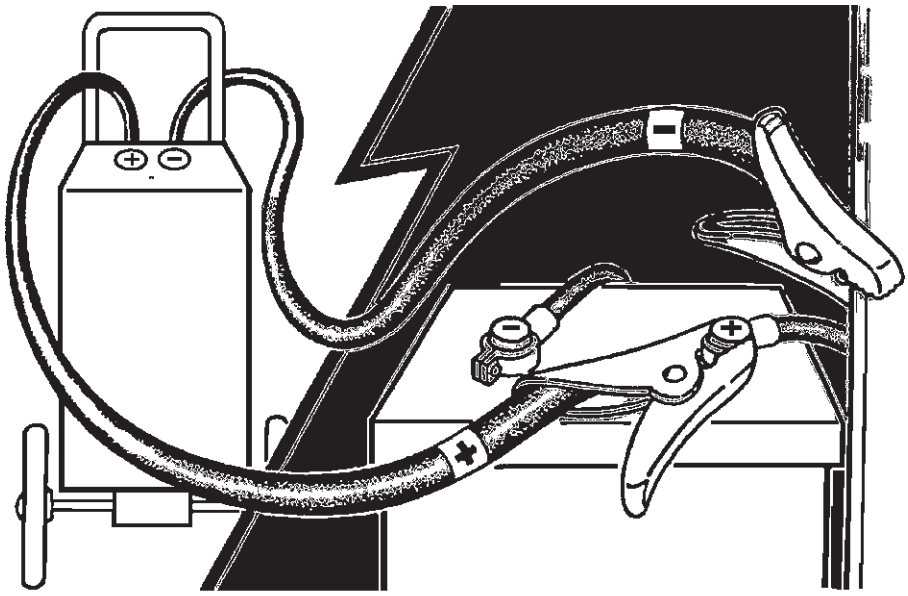
1. Make sure that parking brake is applied and all electrical controls are OFF.

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2. Connect the booster batteries or starting generator using the following procedure to prevent a spark near the battery that can cause an explosion.

   a. Connect one jumper cable to the positive (+) terminal of the booster battery. Connect opposite end of the same jumper cable to the positive (+) terminal of the battery on the machine.

   b. Connect the other cable to the negative (-) terminal of the booster battery. Connect the opposite end of this cable to a good ground connection on the



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   machine's frame, away from the battery.

3. Start the engine in the normal manner.

4. After the engine has been started, first disconnect the negative (-) booster cable from the frame, then remove the positive (+) booster cable.

SMT.0156.E01

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MACHINE HEATING UP PROCEDURE

If the machine motor has been shut off or has cooled down, this will have to be heated up gradually so the coolant and the motor and transmission oil are brought to operating temperature.
Recommended operating temperature:
Diesel engine coolant: 60 – 70 °C
Transmission oil: 80 – 90 °C

SMT.0157.E01

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STOPPING THE ENGINE

IMPORTANT

A turbocharged engine must always be run at about 1000 rpm with reduced load for 2 or 3 minutes before switching off in order to allow the turbocharger to cool down.

SMT.0158.E01

SMT.0159.E01

1. Turn the key switch to the OFF position to turn off all electrical control circuits and remove the starting key from the instrument panel.

2. Apply the parking brake.

3. If machine is so equipped and engine will be stopped for a prolonged period during cold weather, plug in the engine block heater and/or hydraulic oil tank heater using the correct socket for external power supply.

4. Disconnect the battery selector and reomve the key.

5. Close all locks before leavign the machine.

SMT.0159.E01

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DRIVING

SMT.0163.E01

Handling the machine should be left to the authorised operator who knows its functional features and load limits and who knows how to operate within the safety rules.

1. Adjust the operator's seat to a comfortable and suitable position. Run the engine at idling speed and select the driving direction and gear required with the gear lever.

2. Release the parking brake.

3. To change to a higher gear, turn the gear lever to the next higher gear releasing at the same time the accelerator. Accelerate normally after the gear has been inserted; to go down the gears perform these actions in reverse order. To change to lower gear turn the gear lewer to the previous gear releasing, and at the same time releasing the accelerator.

4. When driving always use the right brake pedal.

SMT.0163.E01

CAUTION

Do not gear down until machine slows to appropriate speeds. Otherwise, damage to the drive line can occur.

SMT.0162.E00

WARNING

Do not carry heavy loads in a raised position in order not to compromise the stability when braking or driving on irregular ground. SMT.0164.E00

WARNING

The machine's inertial force resulting from its speed and weight influences how quickly the machine can be stopped just like any other vehicle. Because of the machine's gross weight, it cannot be stopped instantly. A variable distance is required to stop the machine, depending on load and speed. Be sure to allow stopping distance when driving to avoid collisions. SMT.0165.E00

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TRASLAZIONI

General information

The operator must comply with the highway code including the speed limits on the road and on the worksite.
He/she must be able to clearly see the route and any traffic, personnel. Always maintain safety distances.
The machine must always be kept under control and operated in a responsible manner.
Avoid sudden starts and stops and changes of direction at high speed.
The lifting unit and load must stay lowered so as to ensure full visibility for the operator.
The load must only be lifted during stacking.
In case of bad visibility or stacking difficulties, drive cautiously, using auxiliary means or the assistance of adequately trained ground personnel.
Near crossroads and other points where visibility is low, reduce speed and indicate presence by means of the horn.
Operate the steering and brake controls smoothly and moderately when handling high loads.
Do not overtake other vehicles moving in the same direction near crossroads, points where visibility is bad or hazardous areas.
The operator should not drive over objects that could damage tyres or the machine.
Indicate changes of direction using the direction indicators near other vehicles or pedestrians.
SMT.0166.E01

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Speed

SMT.0168.E01

The speed must be adapted to the presence of personnel in the area, visibility, surface and load. Particular care must be taken on wet and slippery surfaces, such as snow or ice. Under all conditions, the vehicle must be operated at a speed enabling it to be brought to a stop in a safe manner.

SMT.0168.E01

Operating on gradients (slopes)

SMT.0169.E01

When operating on slopes, the following rules shall be observed:

1. The machine must move up and down slopes slowly.

2. Do not turn the machine on slopes, nor drive across slopes.

4. The load must be facing uphill when driving up or down gradients of over 10%.

SMT.0169.E01

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STEERING

SMT.0171.E01

The machine is steered by turning the steering wheel in the direction that you want the machine to go. The steering wheel opens and closes a valve to provide hydraulic power to turn the steering wheels. There is no mechanical linkage between the steering wheel and the steering system linkage.
Do not continue turning the wheel after reaching the turning limit so as not to cause overheating of steering components.
Do not turn the steering wheel from one turning limit to another with the machine at a standstill to prevent wear of tyres and floor.

To help maintain machine stability and to prevent possible tipping, do not steer sharply, especially:

a. While traveling at higher speeds.
b. With spreader elevated to mid-point or above.
c. On uneven terrain.

SMT.0171.E01

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LOAD HANDLING

IMPORTANT:
Always remain within sight and communication with personnel on the ground.
Do not lift submerged loads as water and mud increase weight.
Make sure frost has not secured the load to the ground.
Do not use the machine to push or pull loads.
Make sure that during operations, the load and machine do not knock against any obstacle.

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PARKING PROCEDURES

WARNING

NEVER leave the PACKER with a load suspended. It could inadvertently lower, possibly causing serious injury or death.

SMT.0180.E00

WARNING

Do not move the PACKER onto a surface or area that has not been approved for the PACKER. The PACKER is heavy and could possibly break through an insufficient surface, causing damage to the machine or injury to personnel.

SMT.0182.E00

1. Remove all loads.
2. Move the machine to its designated parking area, away from the traffic lanes.
3. Apply the parking brake and lower the spreader.
4. Make sure all controls are in the NEUTRAL position and all electrical accessories and lights are OFF.
5. Refer to "Stopping the Engine" procedures and turn the ignition switch to the OFF position.
6. Report any maintenance or operational problems to qualified maintenance personnel.

SMT.0179.E01

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TOWING

IMPORTANT: Always contact our Technical Dept., for further details relating to towing operations.

WARNING

Towing any machine without taking the proper prerequisite steps could result in damage to equipment and possible personal injury. SMT.0185.E00

If there is no alternative to machine towing, contact the Fantuzzi Technical Department for assistance.
If the machine has to be towed, follow the instructions below.

Cause: Diesel engine fault (hydraulic braking, steering, lifting circuits, etc. not functioning)
Remedy: Disconnect the Cardan shaft and release the parking brake caliper.

If the diesel engine is working, disconnect only the Cardan shaft.

SMT.0184.E01

WARNING

When operating this machine, if any abnormal condition in its operation occurs, move the machine to a safe parking area, if possible, and when safe to do so, shut down the machine and notify appropriate maintenance personnel. SMT.0043.E00

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NOTES

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GENERAL WARRANTY CONDITIONS

For the Customer’s Attention

SMT.GAR01.E00

This Warranty and Service Booklet is an important document that will help you get the most from your fork-lift truck.

We strongly suggest that you read the attached Operating and Servicing Instructions Manual before using your fork-lift.
If, through some oversight, you have not received the Manual and you would like a copy, ask your local Dealer or Importer or order a copy directly from FANTUZZI-REGGIANE S.p.A (the first copy is offered free of charge).

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NOTES

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INTERNATIONAL WARRANTY

INTRODUCTION

SMT.GAR02.E00

It is hereby certified that:
FANTUZZI REGGIANE S.p.A – 42040 Lentigione - Italia - warrants that the product(s) is(are) free of defects caused by faulty material or bad workmanship, subject to the conditions and limitations specified below.

FANTUZZI REGGIANE S.p.A has no obligation or liability in connection with any hidden faults or defects in component parts which, even if produced by leading Italian or international manufacturers, are not FANTUZZI REGGIANE S.p.A products; in such an event however, FANTUZZI REGGIANE S.p.A will provide for the benefit of the warranty supplied by the manufacturers of the component in question to be transferred to the customer and will offer the user its full cooperation in applying the same.

PRODUCTION CHANGES

FANTUZZI REGGIANE S.p.A reserves the right to alter products manufactured and/or sold at any time, without prior notice and without any obligation to modify or update products already manufactured or sold.

WARRANTY PERIOD

The Warranty Period takes effect from the date of delivery to the first owner/user. The date of delivery must be recorded clearly in the bottom right-hand corner of the Registration Card.

This warranty becomes void if the Registration Card applying to the machine is not returned, completed where applicable, within the prescribed period. The relevant FANTUZZI REGGIANE S.p.A Importer, local Dealer or customer is responsible for returning the Registration Card.

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Fork-lift trucks and Accessories.
The warranty is valid for the minimum term provided by the law. In countries where there is no specific law on this subject or the law in force provides for shorter periods than those set out below, the warranty period shall be treated as:
- Materials: 1 year or 2000 operating hours (whichever expires first)
- Labour: 1 year or 2000 operating hours (whichever expires first)
The warranty can be transferred to subsequent purchasers.

All parts and components replaced or repaired shall be covered for the remainder of the warranty period **CALCULATED AS TAKING EFFECT FROM THE DATE OF DELIVERY OF THE ORIGINAL PART OR COMPONENTS**.

In any event the warranty shall automatically expire 15 months after the date on which the fork-lift leaves the FANTUZZI REGGIANE S.p.A factory for delivery to the customer.

Failure to follow the servicing instructions given in the Operating and Servicing Instructions Manual supplied with the machine shall invalidate the warranty.

Maintenance operations must be carried out throughout the warranty period, by personnel authorised by FANTUZZI REGGIANE S.p.A, unless otherwise directed by FANTUZZI REGGIANE S.p.A.

TESTS PRIOR TO DELIVERY

All products are carefully tested before leaving the factory, to ensure that they conform fully to specifications and to the standards set by the FANTUZZI REGGIANE S.p.A Quality Control Dept.

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ITEMS COVERED BY THE WARRANTY

The warranty covers the cost of replacing or repairing defective parts, subject to the absolute discretion of FANTUZZI REGGIANE S.p.A.

A part or product is considered defective and therefore covered by guarantee when it is discovered to have an inherent defect, already in existence at the time of delivery.

Products purchased from foreign suppliers are covered by warranty agreements entered into directly with the manufacturer.

All repairs under guarantee must be carried out exclusively by FANTUZZI REGGIANE S.p.A personnel during normal working hours.

The above warranty conditions do not apply in the following circumstances:

I) damage during transportation, installation or repair;
II) damage caused by war or military action or revolt, by nuclear radiation or by natural disaster;
III) accidental damage;
IV) improper use of machine;
V) overloading, contrary to recommendations from manufacturer;
VI) lack of care or negligent maintenance;
VII) repairs undertaken by third parties or parts/accessories installed by persons not authorised by FANTUZZI REGGIANE S.p.A;
VIII) spare parts used other than original FANTUZZI REGGIANE S.p.A parts or not authorised by FANTUZZI REGGIANE S.p.A;
IX) changes or alterations made to machine, including removal or tampering with hour counter;
X) unsuitable or inadequate storage conditions;
XI) normal wear;
XII) in the event that the claim does not reach FANTUZZI REGGIANE S.p.A or the Dealer within 10 days of the discovery of the defect.

The warranty will not apply if the owner uses the product in an unlawful manner or uses it for purposes other than that for which the machine was designed.

The guarantee shall be automatically invalidated if any seals are removed or changes made to the machinery which have not been authorised by FANTUZZI REGGIANE S.p.A.

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The warranty does not cover the cost of lubricants, expendable materials or materials subject to wear. The warranty does not cover other expenses, incidental to or attendant upon the following 7 for example:

a) costs of transporting spare parts;
b) technicians, travelling expenses;
c) extra costs incurred in gaining access to installed product(s);
d) injury to persons;
e) loss of use, loss of profits, down time or loss of ownership;
f) damage to other components or goods not being products covered by the FANTUZZI REGGIANE S.p.A guarantee;
g) telephone, fax, telex and telegram expenses;
h) hiring of special equipment;
i) rental or hiring of machinery to replace defective equipment;
l) direct or indirect damage caused by the breakdown of the machine during the warranty period.

FANTUZZI REGGIANE S.p.A does not authorise third parties to assume responsibility in connection with the sale of its products unless by express permission.

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FANTUZZI REGGIANE

fantuzzi DIVISION

ForkLIFTS

Maintenance Manual

FDC160/1200

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MAINTENANCE MANUAL

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INTRODUCTION

This manual contains information on the inspection, maintenance, repair, and adjustments necessary for the proper operation of your machine.

Every section of this manual provide detailed information about each of the major systems, e.g. drive, steer, tyres, hydraulic, electrical, etc. A description of normal system operation, operating specifications and major component adjustment are included in the respective modules.

A troubleshooting module is included to aid you in isolating problems. Refer to this module for diagnostic assistance. In order for diagnostic time to be cut to a minimum, it is necessary to isolate problems as quickly as possible.

Hydraulic and electrical schematics have been included in this manual as a ready reference to be used in troubleshooting. Your machine may not have all the options illustrated in these schematics.

There are certain maintenance tasks contained within this manual that will require more than one person to perform. In some instances such as functional checks, pressure adjustments, or system performance checks, the services of a qualified operator may be required. Use common sense and be safety conscious.

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Material in this manual is based on information and specifications current at the time of its approval for printing. As part of our Products' on-going program to improve its products and service. We reserves the right to implement product changes and disseminate changes in service information without notice or recourse.

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1.1 GENERAL INFORMATION

Personnel employed

All maintenance personnel should read and understand not only the instructions in this chapter, but also all the remaining information in this manual.

All maintenance personnel must:
- Be skilled
- Know the machine and maintenance risks involved
- Be adequately trained.

Inspection schedule

For correct truck usage and to ensure the safety of personnel, periodical inspections should be made of mechanical, hydraulic and electrical parts of the truck in order to ensure that all parts are operating properly. The aim of such inspections is to prevent rather than repair the faults.

It should be realised that truck malfunctions are uneconomical due to higher running costs or risk of damage. They are also dangerous for operators.

The list of periodical maintenance inspections is shown in Section 2 of this manual and should be considered as a mere guide and starting point to be adapted to individual needs and experience, as well as to truck operating conditions, because specific work conditions, such as dusty or chemically aggressive environments will call for more frequent controls, especially with respect to those parts subject to environmental aggression. In this case, the scheduled maintenance programme will have to be amended.

It must also be remembered that, as time passes, parts not adequately protected by paint undergo attack by atmospheric agents that can damage the truck. Great care is thus required when making structural inspections in order to pinpoint any small cracks which in time can even cause structural collapse.

In the event of faults being found during periodical inspections or while working, immediately perform extraordinary maintenance and repair before starting work again. In such cases however, it is best to notify the manufacturer.

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General precautions concerning maintenance

This paragraph shows precautions of a general nature which should always be taken into consideration when servicing or repairing the truck. For each single job, always also consider the precautions indicated in the single chapters of the manual. Because it is not humanly possible to envisage all the possible situations that could occur at work, the user must shoulder some of the responsibility of complying with the “Safety and Health” goal, according to the criteria laid down by EEC Directives and applicable legislation.

- Always hang up a notice showing “Maintenance work in progress” or “repairs in progress”, so other people are informed.
- During maintenance operations, do not allow unauthorised persons to come near the truck.
- Use appropriate equipment and tools. Repair or replace broken or worn equipment and tools.
- Do not attempt to weld pipes or ducts containing hydraulic fluid or inflammable substances.
- Never pour inflammable liquids into open, large and low vessels.
- Never pile up rags soaked in oil or grease as these represent a fire hazard. Place these in a closed metal container.
- Do not keep inflammable material on or in the immediate vicinity of the truck.
- Keep an extinguisher handy when performing jobs that could cause flames.
- Wear proper accident-prevention clothing (helmet, eye-wear, gloves, footwear, etc…).
- Wear adequate clothing. This should be fairly tight fitting. Do not wear chains or bracelets as these could become trapped.
- Do not touch or go near fans, belts, chains or cables when these are moving.
- Always immediately clean platforms, walkways, steps and handrails if these are dirtied by oil or grease.
- Always use degreasing solutions cautiously.
- Do not loosen pipes or unions if there is any chance of these being pressurised. If fluid under pressure exits from even a small hole, the jet can penetrate the skin. In this case immediately contact a doctor.
- Take care when working underneath the arm.
- Never operate the truck in closed premises without adequate ventilation.
- Before repairing major truck structures, check the material used and obtain the manufacturer’s approval.
- Do not make alterations to the structures, but rather aim at merely restoring the original condition. In case of doubt or need contact the manufacturer.
- Never change the settings of the safety valves of the hydraulic system. Maintain the factory settings.
- When using compressed air, use suitable means of protection, especially on the eyes. Maximum air pressure should be 2 kg/cm^2.

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1.2 CHECK REGISTER

All routine and extraordinary maintenance jobs must be recorded in a special register. For this purpose, we provide a “Check Register” as a model indicating the main items to be completed in case of jobs performed on the machine.

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FAULT FOUND	CAUSE OF FAULT	JOB DESCRIPTION	WORK HOURS	JOB DATE	SIGNATURE

1861/E

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1.3 READING THE SYMBOLS IN THE MANUAL



General hazard symbol



Electric shock hazard symbol



Slippy floor hazard symbol



Corrosive material hazard symbol



Explosive material hazard symbol



Inflammable material hazard symbol



Danger of falling hazard symbol



Open flame prohibition symbol



Manoeuvres forbidden notice



Hot surfaces hazard notice



Danger of being crushed notice

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1.4 SYSTEM MAINTENANCE

Introduction
This paragraph shows some of the basic concepts for servicing the systems. It is best to read the following information carefully before referring to the single chapters of the manual.

According to the DIN 31051 standard, the concept of “maintenance” includes the following fields of activity:

Preventive maintenance
Preventive maintenance comprises all those jobs keyed to maintaining the desired condition, meaning the reduction during working life of the so-called wear reserve.

Inspection
Inspection comprises jobs aimed at recognising actual condition, meaning the identification of the reasons and procedures whereby the wear reserve is reduced.

Restoration
Restoration comprises jobs keyed to obtaining the desired condition, meaning offsetting the reduction in performance and restoring the wear reserve.

Programming maintenance
Maintenance work must be scheduled and performed according to the importance of system functions, the required operating pace (which can go from intermittent service to continuous use over several shifts), the entity of the consequences of a possible fault (from the single system with secondary duties up to the system forming part of a process line, where a fault in a single component can cause stoppage of the entire line) and finally, according to the desired degree of reliability. During the first hours of machine operation, it is especially important to schedule a complete control of all the machine parts. Such inspections will then be performed according to the maintenance table schedule.

Hydraulic systems
In hydraulic systems, the reduction of wear reserve can take the following shapes:

- increase of play between cursors and relevant housings
- wear of dynamic seals
- erosion of control edges
- bearing fatigue
- increase of play between bearings and shafts
- cavitation damage on pumps and valves
- chemical alterations to fluid.

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All these wear phenomena cause a slow consumption of the reserves contemplated during the design stage, to the extent that these fall below planned levels (which does not automatically mean system breakdown) or else single components suddenly break.

Inspections
Below is a more detailed description of some of the major inspection items in the manual.

Heat exchanger (air-oil): In very dusty places, heat exchange worsens quickly due to dust being deposited on the surface of the exchanger. If the cooling air also contains oil mist due to external leaks, heat exchange can even be interrupted.

Working temperature of the oil: An increase in oil temperature can have the following causes: inefficient heat exchanger (dirty surface, faulty fan). Increase in heat in pumps and hydraulic motors due to damage to bearings. Reduced heat dispersion from tank, from pipes and from components due to deposit of pollutants. Increase in internal leaks from single components. Triggering of pressure valves at pressures that are too low, system operation in unacceptable conditions, etc.

Checking pressures: Check the opening pressure of the pressure valves of the primary and secondary circuits and of the adjustment circuits, check the pressure of the gases in the accumulators, check the calibration pressure of the reduction valves, sequence valves and release valves.

Checking noise: This inspection only makes sense if it permits establishing noise variations with respect to the new system. When the pressure valves open, they give off a shrill sound. If on the other hand, rattling or whistling is heard, this points to the existence of damage. The cylinders can also rattle or squeak during forward and backward movement. This could point to guide wear or blockages of various types such as joints blocked by rust, unsuitable fluid, etc. An increase in pump or hydraulic motor noise when the pressure rises can point to damage caused by erosion or cavitation on the distribution plates, an increase in play of the volumetric elements or likely damage to the roller bearings. If the pumps make a strong and unpleasant noise, whatever the pressure load, but which increases in a more than proportionate way along with an increase in rotation speed, there is a supply pressure problem or too much vacuum in the suction pipe.

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Checking leaks: In the case of hydraulic motors and for certain pumps, wear can often be determined by the amount of leaks. This is also true for a series of control, adjustment and stop valves. The slow movement of a cylinder under load with distributor closed points to faulty or worn gaskets.

Checking bearing temperature: When the first pittings form on the tracks of the roller bearings, a temperature increase can occur in the bearing installation area due to strong power dissipation. The condition for drawing conclusions from a comparison of temperatures is that after initial system startup, meaning in normal conditions, a reference temperature has been read and recorded at that point with pre-established work cycles.

Checking pipes and hoses: Check the seal of all pipes and hoses and unions and that these are secure. Loose pipes can rub against one another or on frames and the relevant fitting can be exposed to unacceptable mechanical stress. The points where pipes are crushed or bent increase flow resistance causing power drops and fluid overheating. With regard to hoses, check there are no signs of rubbing or swelling. When the machine first starts operating, it is important to make an inspection and, if necessary, tighten all pipe connections.

Maintenance

Below is a more detailed description of a number of major maintenance and repair items in this manual.

Topping up the fluid: To top up, it is always best to use the same fluid as that already in the system. If fluids of the same type are mixed, made by different manufacturers, in case of damage, the warranty will be invalidated. Often, additives are offered for hydraulic fluids that reduce mechanical friction and eliminate the so-called “stick - slip” effect, besides extending fluid life. Before using such additives, ask the fluid manufacturer to determine compatibility. Often, fluid manufacturers decline any liability if the additives of other manufacturers are added to their products. The manufacturers of hydraulic components behave in the same way considering it is very hard to determine the actual long-term effect of such additives, also bearing in mind the changes in dosage and stress to which the fluid is exposed in the single applications.

Changing the fluid: At every fluid change, the sump will have to be cleaned. Both when topping up and completely changing the fluid, it should be remembered that new fluid, as supplied, is not normally suitable for pouring directly into the hydraulic system due to the quantity of pollutants this contains. The degree of cleanliness of the new fluid cannot be guaranteed due to the often very long transport chain between manufacturer and end user (storage tanks, tankers, tank trucks, various containers). For this reason, the new fluid must only be poured into the sump – for topping up or total change – through a filter, the quality of which must at least be equivalent to the system operating filters in terms of pores. Better still, use a filling filter with even smaller pores. These instructions are very important because, otherwise, immediate operating faults could occur after changing the fluid.

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Cleaning the filters: Normally, the cartridges have to be cleaned or changed every time the fluid is changed. Of all the filtering fabrics used today, practically none can be cleaned except at a high cost and consequently blocked cartridges have to be replaced. Because the naked eye cannot see multilayer cartridge blockages, the degree of filter blockage can only be evaluated on the basis of the difference in pressure between upstream and downstream. Only filters must therefore be used able to optically or electrically indicate through a special blockage indicator when maximum blockage has been reached. In the case of filters without indicator, replace the cartridges often enough to be sure of avoiding the opening of the bypass valves or destruction of the blocked cartridges.

Eliminating leaks from pipes: Leaks in pipes can only be repaired after resetting system pressure. Leaks in areas fitted with soft seals (O-Rings, grommets etc...) cannot be repaired by tightening because the leaking seals are broken or have hardened and must therefore be replaced.

Cleaning the system: Hydraulic systems must be cleaned every so often on the outside to pinpoint leaking areas, to prevent pollutants entering the system when topping up, to prevent pollutants entering when replacing cartridges, to protect the cylinder rods against the danger of scoring, so as not to reduce or interrupt heat exchange between the system and the environment. During cleaning operations, avoid introducing detergent liquids into the hydraulic system. When using high-pressure steam cleaning systems, make sure the sump cover, the pipe transit areas, the shaft gaskets and the electrical systems and devices, etc., are able to withstand this cleaning procedure, which in itself is very effective.

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Replacing worn parts: no fault forecasting can be done for most components. In this respect, operating conditions are a crucial factor (dynamic pressure stress, speed and type of fluid, thermal stress, environment effects, etc., ...). In known operating conditions, only the average duration of the bearings and dynamic seals can be calculated. It could be a good idea to replace bearings, dynamic cylinder gaskets, shaft gaskets and flexible hoses beforehand if faults in these parts could cause serious damage (for instance, the breakage of a bearing could cause the destruction of an entire unit, if the uncontrolled drop of a cylinder could cause collisions with other machine parts, if the breakage of a flexible hose could cause environmental pollution or even expose operators to dangerous situations). Other parts subject to wear, besides those already mentioned, are: all static and dynamic sealing elements with elastomer or polyurethane base (soft seals), parts of pressure valves (above all for main circuits), pressure reduction valves, sequence valves, release valves. Filter cartridges (unless the blockage limit is continually checked). Flexible parts of couplings. Flexible high-pressure hoses.

Replacing flexible hoses: Correct installation of flexible hoses will extend their working life: see DIN 20066 standard, part 4, fitting flexible hoses. Avoid fitting and leaving taut flexible hoses. Flexible hoses must be fitted so they are not under tension except that of their own weight. Never fall below a minimum acceptable curving radius. If the hose makes a curve, it must be long enough to respect the straight sections. Choose the shape of the terminals to prevent further stress on the hose. To protect the hoses against undesired external action, any structure or areas of the system or machine with which such hoses could come into contact must be suitably covered.

Repairs

The best way to put the system back into good working order is systematic successful troubleshooting. This means having access to all the necessary documentation. The functional diagrams and lists of machine parts must always be at disposal, near the machine, for reference. Moreover, all major measuring instruments must be available so as to cut down troubleshooting times as much as possible.

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Eliminating faults:
Faulty components must not be repaired on site because the tools required for careful repair are not normally available and, besides, standards of cleanliness are not high enough. On-site replacements should therefore only involve complete components:
- to expose the system to environmental effects only for the time strictly necessary
- to reduce fluid leaks as much as possible
- to be sure, by fitting new or adequately overhauled and checked components, that system stoppages are reduced to a minimum.

After localising the faulty parts, it is most important to check if the fault has contaminated the entire system or only a part of it due to the detachment of fragments or large quantities of metal abrasive parts. If such contamination has occurred (which can be ascertained by checking the filter cartridges and the sump, the system must in any case be cleaned before being operated again (for instance by flow cleaning), the filter cartridges must be replaced and, under certain circumstances and with certain types of systems (small size) it is best to replace all the fluid.

In the case of large systems, the fluid must be cleaned and then poured back into the sump through a very fine filter or centrifuge.
This is the only way of preventing further faults in the system or the breakdown of other components as a result of the initial fault. To increase safety in systems that have to perform delicate control operations or high-precision adjustment functions, the filters should be equipped for a limited period of time with cartridges having a higher filtering capacity than standard filters and the filters must be kept operating until they have reached blockage limit. With currently available filters, this procedure is nearly always practicable. After the repaired system has been started up again, it should be kept under observation for a certain time to make sure the repairs done have in fact remedied the problems. When part of the system is not vented completely, irregular operation is sometimes seen (for instance, the cylinders have a swinging operation or exceed established positions. The pumps develop discontinuous noises, etc…).

If the systems have to vent spontaneously, such phenomena can last for several hours

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Repair of hydraulic components:
The main thing to decide when repairing components is which can be overhauled by the system user and which must be returned to the manufacturer. To repair hydraulic components, a properly fitted-out workshop is needed, with a higher than average standard of cleanliness. This result can only be economically achieved if the company has a large number of hydraulic-operation systems. Another requisite is the presence of suitably trained staff provided with all necessary tools and documentation.
Both conditions are anti-economical and ineffective unless there is also an on-site spare parts store with an assortment of spares.
Hydraulic part repairs that cannot be perfectly controlled should be entrusted to the manufacturer, in order to be certain of always having components in stock that are in good working condition.

Electrical systems
In electrical systems, the reduction of wear reserve can take the following shape:
- oxidation of electrical contacts
- contact brush wear
- overvoltages
- short circuits
- overheating of coils and electrical windings

All these wear factors cause the slow consumption of the reserves contemplated during design, to the extent that these fall below intended values (a point that does not necessarily coincide with system breakdown), or else sudden failures occur in single parts.

Inspections
Below is a more detailed account of major inspection items in this manual.

Checking fastening: To ensure correct system operation, the electric appliances must be properly fastened. Make sure there are no appliances partially or totally detached from their supports, loose screws, missing or faulty fastening devices.

Checking contact wear: Check the electrical contacts for oxidation. An alarm signal could indicate contact failure in the electrical circuit. Jobs of this type must be done by skilled staff.

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Checking the contact brushes for wear: In some cases, when an electric command has to be conveyed to moving parts, contact brushes are used. Make sure such brushes are not badly worn or burned out, otherwise these must be replaced. Also check the contact surface of the brushes.

Checking the condition of the appliances: A sight check of the appliances could show faults or initial signs of failure. A blackened appliance could point to part overheating due to system or appliance malfunction.

Maintenance and repair

Electrical appliances do not normally require special maintenance. Jobs are normally restricted to restoring original operating conditions. That is why maintenance staff must have electrotechnical know-how and be suitably trained. The replacement of a faulty appliance could not be enough if the reason for the fault is upstream or downstream of the replaced part. In such cases it is best to contact the manufacturer before working on the system. Before proceeding to disconnect the leads to replace a part, check their markings, otherwise mark these before disconnecting so that they can be properly connected up again.

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2.1 HOW TO REFER TO THE MAINTENANCE INSTRUCTIONS

The maintenance tables consist of a list of checks to be made for routine machine maintenance. In the first column on the left, called points to be checked, the number and title appears of the chapter concerning the part of the machine to be checked. The second column shows the type of job to be done. The third column provides an approximate reference to job frequency in work hours. If the machine is not used on a regular basis, the work hours shown on the table are reached over a long period of time. To avoid problems due to ageing of materials, a maximum period of time should be considered, after which the indicated job should be performed. The indication “(1)” on the table means the job must be done at least once a year. The indication “(2)” means the job must be done by skilled staff.
The indication “(3)” means chain inspection and wear checks must be made every three months and recorded in a book set aside for safety inspections. The wear check must be made following the instructions in the manual.
The safety inspections are marked “(*)”.

Please remember that “standard” preventive routine maintenance schedules are:
- 250h
- 500h
- 1500h
- 3000h

For preventive special maintenance, these are (approx.):
- 6000h
- 12000h
- 24000h.

Such schedules can be changed depending on the type of machine and on how hard the environmental and operating conditions are.
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LIST OF CHECKS FOR MAINTENANCE

Points to be checked		Type of job	Job frequency (hours)							
			10	50	100	250	500	1500	3000	6000
3	**Machine structure**									
3.1	Main structure	Welded and bolted coupling check						•(1)		
		Bolt tightness check						•(1)		
		Structure integrity check						•(1)		
3.2	Pins	Stop-plate tightness check				•				
		Lubrication				•				
		Pin and plate condition check				•				
4	**Diesel engine system**									
4.1	Diesel engine	Checking fluid leaks	•							
		Oil level check	•							
	(*Refer to specific manual*)	Air filter blockage check	•							
		Diesel fuel pre-filter cleaning				•				
		Oil change				•				
		Oil filter change				•				
		Diesel fuel filter cartridge change				•				
		Air filter cleaning				•				
		Air filter change						•		
		Belt tensioning check				•				
		Turbosupercharger fastening check					•			
		Injection pump fastening check						•		
		Injection pump phase check						•(2)		
		Injector check and overhauling						•(2)		
		Valve check and setting						•(2)		
		Compressor check and truing						•(2)		
		Alternator check and truing						•(2)		
		Test motor oil							•	

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LIST OF CHECKS FOR MAINTENANCE

Points to be checked		Type of job	Job frequency (hours)							
			10	50	100	250	500	1500	3000	6000
4.2	Radiator	Sight check	•							
		Coolant level check	•							
		Radiator cleaning					•			
		Replacing the coolant						•(1)		
4.3	Fume exhaust system	Sight check			•					
4.4	Fuel system	Sight check	•							
		Diesel fuel tank filter change					•			
		Draining water from system					•			
		Tank cleaning						•(1)		
5	**Transmission**									
5.1		Oil level check	•							
		Oil filter change					•			
		Oil change						•		
		Testing fluid							•	
6	**Differential axle**									
6.1		Sight check	•							
		Hub and differential oil level check			•					
		Hub and differential oil change						•		
6.2	Cardan shafts	Sight check			•					
		Articulated joint lubrication					•			
		Sliding area cleaning and lubrication					•			
		Tightness check					•			
7	**Steering axle**									
7.1		Sight check			•					
		Greasing				•				
		Surface cleaning			•					

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LIST OF CHECKS FOR MAINTENANCE

Points to be checked		Type of job	Job frequency (hours)							
			10	50	100	250	500	1500	3000	6000
		Bearing and rods play check						•		
8	**Wheels**									
8.1		Sight check	•							
		Tyre pressure check				•(2)				
		Wheels fitting check			•					
		Steering lever fastening check					•			
		Wheel parallelism check					•			
9	**Lifting assembly**									
		Mast and chain sliding roller greasing			•					
		Fork carrier plate greasing			•					
	*	Chain inspection and checking for wear						•(3)		
		Chain cleaning and lubrication					•			
		Mast and fork carrier play check					•			
		Chain cleaning					•			
		Chain lubrication					•			
		Chain adjustment					•			
	*	Forks – sight dimensional check					•			
	*	Forks – inspection with penetrating liquids							•	
10	**Spreader SVT24K**									
10.5		Sight check of functions	•							
		Sliding block greasing			•					
		Twistlock lubrication and cleaning			•					
		Retention plate greasing			•					
		Guide block and cylinder support greasing			•					
		Twistlock change								•
		Checking twistlock alignment			•					
		Check sliding pads wear				•				

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LIST OF CHECKS FOR MAINTENANCE

Points to be checked		Type of job	Job frequency (hours)							
			10	50	100	250	500	1500	3000	6000
		Checking oil leaks from cylinders and pipes			•					
		Checking microswitch fastening								
		and adjustment				•				
		Checking feeler operation					•			
		Check light and securities					•			
	*	Twistlock wear check						•		
10	**Spreader SS9GM**	**(Double Box)**								
10.4		Sight check of functions	•							
		Sliding block greasing			•					
		Anchor pin greasing			•					
		Side hook cylinder pin greasing			•					
		Extension cylinder pin greasing			•					
		Tilt cylinder articulated joint greasing			•					
		Hook lubrication and cleaning						•		
	*	Hook change						•		
10	**Spreader SF45GS**	**(Gantry)**								
10.4		Sight check of functions	•							
		Sliding block greasing			•					
		Twistlock lubrication and cleaning			•					
	*	Twistlock change								•
		Vertical oscillation cylinder pin greasing			•					
		Exit cylinder pin greasing			•					
		Sideshift cylinder pin greasing			•					
		Extension cylinder pin greasing			•					
		Twistlock actuator cylinder greasing			•					

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LIST OF CHECKS FOR MAINTENANCE

Points to be checked		Type of job	Job frequency (hours)							
			10	50	100	250	500	1500	3000	6000
11	**Hydraulic system**									
11.2	Hydraulic fluid tank	Checking fluid level		•						
		Replacement of oil filter						•		
		Testing fluid							•(1)	
		Changing the oil							•(1)	
		Cleaning the pump suction filters						•(1)		
		Checking pipes and brackets				•				
		Changing air filter cartridge						•		
11.3	Hydraulic pumps	Sight check				•				
		Noise check				•				
		Changing the oil filter cartridge					•			
		Checking fluid leaks				•				
		Adjusting outlet valve							•(2)	
		Checking capacity and pressure							•(2)	
11.4	Hydraulic motors	Sight check				•				
		Noise check				•				
		Checking for leaks				•				
		Adjusting outlet valve							•(2)	
		Checking capacity and pressure							•(2)	
11.5	Hydraulic cylinders	Sight check		•						
		Checking operation and cleaning rods		•						
		Ball joint greasing and pin check				•				
11.6	Hydraulic accumulators	Checking gas precharge						•(2)		
11.7	Oil cooling	Sight inspection				•				
		Cleaning the exchanger water side						•		
		Cleaning the exchanger oil side						•		

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LIST OF CHECKS FOR MAINTENANCE

Points to be checked		Type of job	Job frequency (hours)							
			10	50	100	250	500	1500	3000	6000
11.8	Distributors	Sight check				•				
	Control devices	Checking capacity and pressure				•				
	Joysticks	Checking for leaks				•				
11.9	Brake cooling oil tank	Checking oil level		•						
	(if present)	Changing oil filter					•			
		Changing oil						•		
		Testing fluid						•		
		Checking pipes and brackets				•				
12	**Electrical system**									
12.1	Batteries	Checking fastening				•				
		Checking charge				•				
		Checking electrolyte level				•				
		Cleaning, tightness of terminals				•				
12.2	Limit switches	Checking operation	•							
		Checking fastening				•				
12.3	Electrical controls	Checking operation	•							
		Checking fastening				•				
		Checking and cleaning switches and cards						•(2)		
	Miscellaneous									
	Painting	Checking and if necessary touching up				•				
	Safety devices	Checking emergency device operation		•						
		Checking brake operation		•						
		Checking light operation		•						
		Cleaning up traces of oil and grease		•						
	SMT.0496.E01									

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2.2 GENERAL FILLING INSTRUCTIONS

Filling must be done with the machine in horizontal position with the mast vertical and completely lowered.

Engine, transmission and anti-freeze level checks must be made 5-10 minutes after the machine has begun operation and consequently:
- with the engine stopped, the level must be below the top notch.
- with the engine running, the level must be above the bottom notch.

The oil used must be disposed of through authorised channels in compliance with the laws applicable in the country where the truck is used.

SMT.0498.E00

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FILLING TABLE FDC 100 - FDC 120

USE	QUANTITY	NAME	QUALITY
ENGINE	See Engine Manual	ESSO LUBE XT 301 (diesel engine) UNIFLO (gasoline engine)	SAE 15W - 40 API CG - 4/SG 15W - 40
TRANSMISSION	Clark 20000 10.3 Lt. 2.72 US Gal. 2.27 UK Gal. Clark 24000 25.6 Lt. 6.76 US Gal. 5.64 UK Gal.	Range "1" (0° ÷+ 60°)	
		ESSO LUBE XD-3+	C4 GRADE 30 C3 GRADE 30 MIL-L-2104C GRADE 30
		Range "2" (- 25° ÷+ 60°)	
		ESSO ATF FLUID-D	C4 GRADE 10 C3 GRADE 10 MIL-L-2104C GRADE 10 MIL-L-2104D GRADE 10
DIFFERENTIAL HUBS	30 Lt. 7.93 US Gal. 6.60 UK Gal.	ESSO GEAR OIL LSA 90 ESSO GEAR OIL GX 85W - 140 (Range > 0°)	SAE 90 - 140 API GL - 5 MIL - L - 2105 D SAE 85W - 140 API GL - 5 MIL - L - 2105 D
HYDRAULIC SYSTEM	365 Lt. 96.43 US Gal. 80.40 UK Gal.	ESSO TORQUE FLUID 56 (temperates climates) ESSO TORQUE FLUID 62 (hot climates)	SAE 80W API GL - 4
FUEL	180 Lt. 47.56 US Gal. 39.65 UK Gal.	DIESEL FUEL (See Engine Manual)	DIESEL FUEL FILTERED (See Engine Manual)
BEARINGS	As Required	ESSO BEACON EP2	ISO DIN 51 825 (3) KP 2K ISO 3498 XM 2
CHAINS	As Required	NILS URANUS SM 11	ISO DIN 51 825 (3) KP 2K ISO 3498 XM 2 (oil SAE 20/20W can be used)
ANTI-FREEZE	Supplied with 40% of anti-freeze	ESSO ANTIFREEZE PERMANENT	20% (until - 9°) 30% (until - 17°) 40% (until - 26°) 50% (until - 38°) 55% (until - 46°)

1911/E

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FILLING TABLE FDC 150 - FDC 160 - FDC 180

USE	QUANTITY	NAME	QUALITY
ENGINE	See Engine Manual	ESSO LUBE XT 301 (diesel engine) UNIFLO (gasoline engine)	SAE 15W - 40 API CG - 4/SG 15W - 40
TRANSMISSION	Clark 20000 10.3 Lt. 2.72 US Gal. 2.27 UK Gal. Clark 24000 25.6 Lt. 6.76 US Gal. 5.64 UK Gal. Clark 28000 28.5 Lt. 7.53 US Gal. 6.28 UK Gal.	Range "1" (0° ÷+ 60°)	
		ESSO LUBE XD-3+	C4 GRADE 30 C3 GRADE 30 MIL-L-2104C GRADE 30
		Range "2" (- 25° ÷+ 60°)	
		ESSO ATF FLUID-D	C4 GRADE 10 C3 GRADE 10 MIL-L-2104C GRADE 10 MIL-L-2104D GRADE 10
DIFFERENTIAL HUBS	30 Lt. 7.93 US Gal. 6.60 UK Gal.	ESSO GEAR OIL LSA 90 ESSO GEAR OIL GX 85W - 140 (Range > 0°)	SAE 90 - 140 API GL - 5 MIL - L - 2105 D SAE 85W - 140 API GL - 5 MIL - L - 2105 D
HYDRAULIC SYSTEM	400 Lt. 105.68 US Gal. 88.11 UK Gal.	ESSO TORQUE FLUID 56 (temperates climates) ESSO TORQUE FLUID 62 (hot climates)	SAE 80W API GL - 4
FUEL	300 Lt. 79.26 US Gal. 66.08 UK Gal.	GASOLIO (See Engine Manual)	GASOLIO FILTRATO (See Engine Manual)
BEARINGS	As Required	ESSO BEACON EP2	ISO DIN 51 825 (3) KP 2K ISO 3498 XM 2
CHAINS	As Required	NILS URANUS SM 11	ISO DIN 51 825 (3) KP 2K ISO 3498 XM 2 (oil SAE 20/20W can be used)
ANTI-FREEZE	Supplied with 40% of anti-freeze	ESSO ANTIFREEZE PERMANENT	20% (until - 9°) 30% (until - 17°) 40% (until - 26°) 50% (until - 38°) 55% (until - 46°)

1912/E

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FILLING TABLE FDC 18K - FDC 20K

USE	QUANTITY	NAME	QUALITY
ENGINE	See engine manual	ESSO LUBE XT 301 (diesel engine) UNIFLO (gasoline engine)	SAE 15W - 40 API CG - 4/SG 15W - 40
TRANSMISSION	Clark 20000 10.3 Lt. 2.72 US Gal. 2.27 UK Gal. Clark 24000 25.6 Lt. 6.76 US Gal. 5.64 UK Gal. Clark 28000 28.5 Lt. 7.53 US Gal. 6.28 UK Gal.	Range "1" (0° ÷+ 60°)	
		ESSO LUBE XD-3+	C4 GRADE 30 C3 GRADE 30 MIL-L-2104C GRADE 30
		Range "2" (-25° ÷+ 60°)	
		ESSO ATF FLUID-D	C4 GRADE 10 C3 GRADE 10 MIL-L-2104C GRADE 10 MIL-L-2104D GRADE 10
DIFFERENTIAL HUBS	30 Lt. 7.93 US Gal. 6.60 UK Gal.	ESSO GEAR OIL LSA 90 ESSO GEAR OIL GX 85W - 140 (Range > 0°)	SAE 90 - 140 API GL - 5 MIL - L - 2105 D SAE 85W - 140 API GL - 5 MIL - L - 2105 D
HYDRAULIC SYSTEM	415 Lt. 109.64 US Gal. 91.40 UK Gal.	ESSO TORQUE FLUID 56 (temperates climates) ESSO TORQUE FLUID 62 (hot climates)	SAE 80W API GL - 4
FUEL	340 Lt. 89.83 US Gal. 74.89 UK Gal.	DIESEL (See engine manual)	FILTERED DIESEL (See engine manual)
BEARINGS	As required	ESSO BEACON EP2	ISO DIN 51 825 (3) KP 2K ISO 3498 XM 2
CHAINS	As required	NILS URANUS SM 11	ISO DIN 51 825 (3) KP 2K ISO 3498 XM 2 (SAE 20/20W oil can be used)
ANTI-FREEZE	Supplied with 40% of anti-freeze	ESSO ANTIFREEZE PERMANENT	20% (until - 9°) 30% (until - 17°) 40% (until - 26°) 50% (until - 38°) 55% (until - 46°)

1893/E

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FILLING TABLE FDC 25K

USE	QUANTITY	NAME	QUALITY
ENGINE	See engine manual	ESSO LUBE XT 301 (diesel engine) UNIFLO (gasoline engine)	SAE 15W - 40 API CG - 4/SG 15W - 40
TRANSMISSION	Clark 28000 28.5 Lt. 7.53 US Gal. 6.28 UK Gal. Clark 32000 28.5 Lt. 7.53 US Gal. 6.28 UK Gal.	Range "1" (0° ÷+ 60°)	
		ESSO LUBE XD-3+	C4 GRADE 30 C3 GRADE 30 MIL-L-2104C GRADE 30
		Range "2" (-25° ÷+ 60°)	
		ESSO ATF FLUID-D	C4 GRADE 10 C3 - GRADE 10 MIL-L-2104C GRADE 10 MIL-L-2104D GRADE 10
DIFFERENTIAL HUBS	30 Lt. 7.93 US Gal. 6.60 UK Gal.	ESSO GEAR OIL LSA 90 ESSO GEAR OIL GX 85W - 140 (Range > 0°)	SAE 90 - 140 API GL - 5 MIL - L - 2105 D SAE 85W - 140 API GL - 5 MIL - L - 2105 D
HYDRAULIC SYSTEM	470 Lt. 124.17 US Gal. 103.52 UK Gal.	ESSO TORQUE FLUID 56 (temperates climates) ESSO TORQUE FLUID 62 (hot climates)	SAE 80W API GL - 4
FUEL	405 Lt. 107.00 US Gal. 89.21 UK Gal.	DIESEL (See engine manual)	FILTERED DIESEL (See engine manual)
BEARINGS	As required	ESSO BEACON EP2	ISO DIN 51 825 (3) KP 2K ISO 3498 XM 2
CHAINS	As required	NILS URANUS SM 11	ISO DIN 51 825 (3) KP 2K ISO 3498 XM 2 (SAE 20/20W oil can be used)
ANTI-FREEZE	Supplied with 40% of anti-freeze	ESSO ANTIFREEZE PERMANENT	20% (until - 9°) 30% (until - 17°) 40% (until - 26°) 50% (until - 38°) 55% (until - 46°)

1894/ E

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FILLING TABLE FDC 200

USE	QUANTITY	NAME	QUALITY
ENGINE	See Engine Manual	ESSO LUBE XT 301 (diesel engine) UNIFLO (gasoline engine)	SAE 15W - 40 API CG - 4/SG 15W - 40
TRANSMISSION	Clark 32000 28.5 Lt. 7.53 US Gal. 6.28 UK Gal.	Range "1" (0° ÷+ 60°)	
		ESSO LUBE XD-3+	C4 GRADE 30 C3 GRADE 30 MIL-L-2104C GRADE 30
		Range "2" (- 25° ÷+ 60°)	
		ESSO ATF FLUID-D	C4 GRADE 10 C3 GRADE 10 MIL-L-2104C GRADE 10 MIL-L-2104D GRADE 10
DIFFERENTIAL HUBS	30 Lt. 7.93 US Gal. 6.60 UK Gal.	ESSO GEAR OIL LSA 90 ESSO GEAR OIL GX 85W - 140 (Range > 0°)	SAE 90 - 140 API GL - 5 MIL - L - 2105 D SAE 85W - 140 API GL - 5 MIL - L - 2105 D
HYDRAULIC SYSTEM	460 Lt. 121.53 US Gal. 101.32 UK Gal.	ESSO TORQUE FLUID 56 (temperates climates) ESSO TORQUE FLUID 62 (hot climates)	SAE 80W API GL - 4
FUEL	335 Lt. 88.51 US Gal. 73.79 UK Gal.	DIESEL (See Engine Manual)	FILTERED DIESEL (See Engine Manual)
BEARINGS	As Required	ESSO BEACON EP2	ISO DIN 51 825 (3) KP 2K ISO 3498 XM 2
CHAINS	As Required	NILS URANUS SM 11	ISO DIN 51 825 (3) KP 2K ISO 3498 XM 2 (oil SAE 20/20W can be used)
ANTI-FREEZE	Supplied with 40% of anti-freeze	ESSO ANTIFREEZE PERMANENT	20% (until - 9°) 30% (until - 17°) 40% (until - 26°) 50% (until - 38°) 55% (until - 46°)

1913/E

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FILLING TABLE FDC 240 - FDC 250

USE	QUANTITY	NAME	QUALITY
ENGINE	See engine manual	ESSO LUBE XT 301 (diesel engine) UNIFLO (gasoline engine)	SAE 15W - 40 API CG - 4/SG 15W - 40
TRANSMISSION	Clark 32000 28,5 Lt. 7.53 US Gal. 6.28 UK Gal.	Range "1" (0° ÷+ 60°)	
		ESSO LUBE XD-3+	C4 GRADE 30 C3 GRADE 30 MIL-L-2104C GRADE 30
		Range "2" (-25° ÷+ 60°)	
		ESSO ATF FLUID-D	C4 GRADE 10 C3 - GRADE 10 MIL-L-2104C GRADE 10 MIL-L-2104D GRADE 10
DIFFERENTIAL HUBS	30 Lt. 7.93 US Gal. 6.60 UK Gal.	ESSO GEAR OIL LSA 90 ESSO GEAR OIL GX 85W - 140 (Range > 0°)	SAE 90 - 140 API GL - 5 MIL - L - 2105 D SAE 85W - 140 API GL - 5 MIL - L - 2105 D
HYDRAULIC SYSTEM	460 Lt. 121.53 US Gal. 101.32 UK Gal.	ESSO TORQUE FLUID 56 (temperates climates) ESSO TORQUE FLUID 62 (hot climates)	SAE 80W API GL - 4
FUEL	380 Lt. 100.40 US Gal. 83.70 UK Gal.	DIESEL (See engine manual)	FILTERED DIESEL (See engine manual)
BEARINGS	As required	ESSO BEACON EP2	ISO DIN 51 825 (3) KP 2K ISO 3498 XM 2
CHAINS	As required	NILS URANUS SM 11	ISO DIN 51 825 (3) KP 2K ISO 3498 XM 2 (SAE 20/20W oil can be used)
ANTI-FREEZE	Supplied with 40% of anti-freeze	ESSO ANTIFREEZE PERMANENT	20% (until - 9°) 30% (until - 17°) 40% (until - 26°) 50% (until - 38°) 55% (until - 46°)

1908/E

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FILLING TABLE FDC 280 - FDC 320 - FDC 350

USE	QUANTITY	NAME	QUALITY
ENGINE	See engine manual	ESSO LUBE XT 301 (diesel engine) UNIFLO (gasoline engine)	SAE 15W - 40 API CG - 4/SG 15W - 40
TRANSMISSION	Clark 32000 28,5 Lt. 7.53 US Gal. 6.28 UK Gal.	Range "1" (0° ÷+ 60°)	
		ESSO LUBE XD-3+	C4 GRADE 30 C3 GRADE 30 MIL-L-2104C GRADE 30
		Range "2" (-25° ÷+ 60°)	
		ESSO ATF FLUID-D	C4 GRADE 10 C3 - GRADE 10 MIL-L-2104C GRADE 10 MIL-L-2104D GRADE 10
DIFFERENTIAL HUBS	35 Lt. 9.25 US Gal. 7.71 UK Gal.	ESSO GEAR OIL LSA 90 ESSO GEAR OIL GX 85W - 140 (Range > 0°)	SAE 90 - 140 API GL - 5 MIL - L - 2105 D SAE 85W - 140 API GL - 5 MIL - L - 2105 D
HYDRAULIC SYSTEM	650 Lt. 171.73 US Gal. 143.17 UK Gal.	ESSO TORQUE FLUID 56 (temperate climates) ESSO TORQUE FLUID 62 (hot climates)	SAE 80W API GL - 4
FUEL	405 Lt. 107.00 US Gal. 89.21 UK Gal.	DIESEL (See engine manual)	FILTERED DIESEL (See engine manual)
BEARINGS	As required	ESSO BEACON EP2	ISO DIN 51 825 (3) KP 2K ISO 3498 XM 2
CHAINS	As required	NILS URANUS SM 11	ISO DIN 51 825 (3) KP 2K ISO 3498 XM 2 (SAE 20/20W oil can be used)
ANTI-FREEZE	Supplied with 40% of anti-freeze	ESSO ANTIFREEZE PERMANENT	20% (until - 9°) 30% (until - 17°) 40% (until - 26°) 50% (until - 38°) 55% (until - 46°)

1895/ E

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FILLING TABLE FDC 380 - FDC 420 - FDC 450

USE	QUANTITY	NAME	QUALITY
ENGINE	See engine manual	ESSO LUBE XT 301 (diesel engine) UNIFLO (gasoline engine)	SAE 15W - 40 API CG - 4/SG 15W - 40
TRANSMISSION	Clark 36000 48 Lt. 12.68 US Gal. 10.57 UK Gal.	Range "1" (0° ÷+ 60°)	
		ESSO LUBE XD-3+	C4 GRADE 30 C3 GRADE 30 MIL-L-2104C GRADE 30
		Range "2" (-25° ÷+ 60°)	
		ESSO ATF FLUID-D	C4 GRADE 10 C3 GRADE 10 MIL-L-2104C GRADE 10 MIL-L-2104D GRADE 10
	Caterpillar 970 15.59 US Gal. 13.00 UK Gal.	ESSO TORQUE FLUID 30	TO-2 US MILITARY MIL-L-21
DIFFERENTIAL HUBS	100 Lt. 26.42 US Gal. 22.03 UK Gal.	ESSO GEAR OIL LSA 90 ESSO GEAR OIL GX 85W - 140 (Range > 0°)	SAE 90 - 140 API GL - 5 MIL - L - 2105 D SAE 85W - 140 API GL - 5 MIL - L - 2105 D
HYDRAULIC SYSTEM	800 Lt. 211.36 US Gal. 176.21 UK Gal.	ESSO TORQUE FLUID 56 (temperates climate) ESSO TORQUE FLUID 62 (hot climates)	SAE 80W API GL - 4
FUEL	605 Lt. 159.84 US Gal. 133.26 UK Gal.	DIESEL (See engine manual)	FILTERED DIESEL (See engine manual)
BEARINGS	As required	ESSO BEACON EP2	ISO DIN 51 825 (3) KP 2K ISO 3498 XM 2
CHAINS	As required	NILS URANUS SM 11	ISO DIN 51 825 (3) KP 2K ISO 3498 XM 2 (SAE 20/20W oil can be used)
ANTI-FREEZE	Supplied with 40% of anti-freeze	ESSO ANTIFREEZE PERMANENT	20% (until - 9°) 30% (until - 17°) 40% (until - 26°) 50% (until - 38°) 55% (until - 46°)

1896/E

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FILLING TABLE FDC 500

USE	QUANTITY	NAME	QUALITY
ENGINE	See engine manual	ESSO LUBE XT 301 (diesel engine) UNIFLO (gasoline engine)	SAE 15W - 40 API CG - 4/SG 15W - 40
TRANSMISSION	Clark 36000 48 Lt. 12.68 US Gal. 10.57 UK Gal.	Range "1" (0° ÷+ 60°)	
		ESSO LUBE XT 301	C4 GRADE 30 C3 GRADE 30 MIL-L-2104C GRADE 30
		Range "2" (-25° ÷+ 60°)	
		ESSO ATF FLUID-D	C4 GRADE 10 C3 GRADE 10 MIL-L-2104C GRADE 10 MIL-L-2104D GRADE 10
DIFFERENTIAL HUBS	100 Lt. 26.42 US Gal. 22.03 UK Gal.	ESSO GEAR OIL LSA 90 ESSO GEAR OIL GX 85W - 140 (Range > 0°)	SAE 90 - 140 API GL - 5 MIL - L - 2105 D SAE 85W - 140 API GL - 5 MIL - L - 2105 D
HYDRAULIC SYSTEM	800 Lt. 211.36 US Gal. 176.21 UK Gal.	ESSO TORQUE FLUID 56 (temperates climates) ESSO TORQUE FLUID 62 (hot climates) ESSO INVAROL EP 32 (cold climates)	SAE 80W API GL - 4
BRAKE COOLING OIL	60 Lt. 15.85 US Gal. 13.22 UK Gal.	ESSO TORQUE FLUID 56 (temperates climates) ESSO TORQUE FLUID 62 (hot climates)	SAE 80W API GL - 4
FUEL	605 Lt. 159.84 US Gal. 133.26 UK Gal.	DIESEL (See engine manual)	FILTERED DIESEL (See engine manual)
BEARINGS	As required	ESSO BEACON EP2	ISO DIN 51 825 (3) KP 2K ISO 3498 XM 2
CHAINS	As required	NILS URANUS SM 11	ISO DIN 51 825 (3) KP 2K ISO 3498 XM 2 (SAE 20/20W oil can be used)
ANTI-FREEZE	Supplied with 40% of anti-freeze	ESSO ANTIFREEZE PERMANENT	20% (until - 9°) 30% (until - 17°) 40% (until - 26°) 50% (until - 38°) 55% (until - 46°)

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OIL COMPARISON TABLE

ESSO	MOBIL	AGIP
LUBE XT301 15/40	DELVAC SUPER 1300	SIGMA TURBO 15W/40
TORQUE FLUID 56	MOBILFLUID 423	ROTRA JD/F
UNIVIS 32 (COLD CLIMATES)	MOBIL DTE 13 OIL	ARNICA 32 (COLD CLIMATES)
TORQUE FLUID 62	MOBILFLUID 422	ROTRA MULTITHT 80W
GEAR OIL LSA 90 GEAR OIL GX 85/140	MOBILUBE HD	ROTRA MPS 85W/90 ROTRA MP 85W/140
ATF D	ATF 20	ROTRA TF
TORQUE FLUID 30 (CAT)	MOBIL TRAS HD	ROTRA CT (CAT)
ANTIGELO PERMANENT	MOBIL ANTIGELO	ANTIFREEZE EXTRA
LHM	LHM	LHM SUPER
VASELINE	VASELINE OIL	1718 (VISCOUS VASELINE)
UNIFLO 15W/40	MOBIL SUPER SYNTH 15W/40	F1 SUPERMOTOROIL 15W 40
BEACON EP2	MOBILUT EP2	GR MU EP2

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3.1 MAIN FRAME

Function

The main frame of the machine is made of steel sections and supports all the moving and fitted parts.



Safety precautions

When paints or solvents are used, always follow the safety precautions on the packs.

Do not try and repair any carrying structures damaged by knocks or overloads, without first obtaining the opinion of Fantuzzi-Reggiane S.p.A.

Service

- The first inspection of the main frame must be made after the first year of machine operation. On that occasion, the maximum time interval must be established between two consecutive inspections. In any case, this time interval cannot be longer than one year.
- As far as possible, periodical inspections must be made of all machine parts to determine general condition and, if necessary, perform maintenance. Check in particular that the bolts and connection weldings are in good condition, bearing in mind the following:

<u>Weldings</u>

If cracks or paint flaking appear near weldings, the welding will have to be checked using penetrating liquids or similar methods. In the case of surface cracks, contact our after-sales service to arrange for repairs.
The crack could be a sign of breakage.

<u>High-resistance couplings</u>

We recommend a yearly statistical check of the torque wrench settings of the bolts of the single couplings.
This check must be made using a calibrated torque wrench. Make sure the settings correspond to those on the torque wrench setting table (section 15).

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The applied torque moment can be checked in one of the following ways:

- measure the required moment using a torque wrench to further turn the nut by 10°;

- after marking the nut and bolt to identify their position, the nut must first of all be loosened by turning at least by 60° and then tightened again, making sure the application of the required moment restores the nut to its original position.
  If even one bolt in a coupling fails to respond to the tightness prescriptions, all the bolts of the coupling will have to be checked again.

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3.2 PINS

Function

The moving parts of the machine are connected together by means of pin couplings. These are best periodically checked to prevent structural yielding.



Safety precautions

Before starting inspection, make sure no one can start the machine, unless expressly asked to do so.

Service

Check tightness of stop plates: Make sure the pin retention devices are correctly tightened.
Lubrication: Periodically grease all the pins on the machine.
Check the condition of the pins and the plates: Periodically check the condition of the pins and retention devices. Any faults should be notified and remedied.

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4.1 DIESEL MOTOR

Refer to the engine manufacturers' service manual for further engine specification, troubleshooting, troubleshooting aids, maintenance and service procedures.
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4.2 RADIATOR

Function

The radiator cools the water and keeps the running temperature of the diesel motor constant. The water can circulate in the circuit by means of a pump; the temperature is regulated by means of a thermostat.



Safety precautions

Disengage the battery disconnector before performing any maintenance jobs on the engine.



Burn hazard! – On stopping the engine, take care because the liquid inside the radiator could be very hot. To check the coolant, make sure the engine is switched off and the radiator is cool.



Important – The engine coolant is a mixture of water and other substances. To dispose of the coolant, follow the anti-pollution regulations in effect in the country where the machine is operating.
When using compressed air, wear suitable protective clothing and devices, especially on the eyes; the maximum pressure of the air should be 2 kg/ cm^2.

Service

Sight check: Check the fastening, integrity and seal of the radiator and its connections.
Coolant level: Periodically check the level of the liquid in the expansion tank. The level should be between minimum and maximum.
Cleaning: Keep the radiating blades of the radiator free of dust or impurities that could prevent proper cooling. Clean using suitable means.
Changing the coolant: Unscrew the drain cap under the radiator. After completing this operation, pour fresh water into the radiator to swill the circuit. When the water comes out clean, close the drainage cap and fill up with new coolant (use the mix indicated in the engine manual).

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4.3 FUME EXHAUST SYSTEM

Function

The fume exhaust system permits scavenging the combustion gases and reduces noise.



Safety precautions

Avoid climbing up near the exhaust in bad weather conditions, such as rain, snow and ice – slipping hazard. Keep the soles of your shoes clean and degreased so as not to increase the danger of falls.



Before starting the engine, make sure there is no one standing near hot or moving parts.

Service

Sight check: Check the fastening, integrity and seal of the system parts.

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4.4 FUEL SYSTEM

Function

The system contains the diesel fuel required to operate the diesel engine. The sump is located on one of the sides of the machine.



Safety precautions

Explosion hazard! – When working on the fuel system, never use open flames, smoke cigarettes or do anything else that could cause an explosion.



Danger of crushing and burns! – In the event of tests being performed with the engine running, make sure there is no one in the vicinity of moving or heated parts.



Drained liquids must be disposed of in accordance with the anti-pollution regulations in force in the country where the machine is operating.

Service

Sight check: Check the fastening, integrity and seal of the fuel sump, pipes, pump and filters.

Draining the sump: To drain the sump, unscrew the cap on the bottom of the sum so as to be able to drain off condensation and impurities. It is best to periodically drain off the condensation that forms in the sump. Draining could be easier after the machine has been at a standstill for some time because the condensation water tends to collect on the bottom of the sump. Allow the water to drain out until the diesel fuel runs clean.

Cleaning: Periodically clean the sump. Unscrew the cap on the bottom of the sump so as to drain off the condensation, impurities and washing detergent.

Changing the diesel fuel sump filter: Periodically change the filter element.

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5.1 TRANSMISSION

Function

The transmission and torque converter, together with the diesel engine, transmit movement, through the cardan shaft, to the differential axle.

Safety precautions



Before starting inspection, make sure the diesel engine is off, the power switch is disengaged and the machine is stable and braked.
The level of the transmission oil must be checked at a temperature of 82 - 85 °C, with motor running at low revs.
Allow the transmission to cool before performing any maintenance jobs

Service

Check the oil level: Perform a daily check to ensure the level is on FULL.
Changing the oil filter: every 500 hours.
Changing the oil: every 1500 hours.
Make reference to the specific transmission manual for further details on maintenance and troubleshooting.

SMT.0481.E01

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5.2 AUTOMATIC TRANSMISSION

Function

The automatic transmission is a programmable electronic device designed for the automatic management of mechanic systems of speed gears.

The control unit is preset and the programming unit is non supplied, so if you want to reprogram the control unit, you must contact FANTUZZI.

FEEDING: 24 Vdc +/- 10%

WORKING TEMPERATURE: from 32° to -58° F (from 0 to -50° C)

MAX GEARS NUMBER: 4 for the forward gear and 4 for the reverse gear.

OUTPUT: 5 PNP static outputs for the selection of the velocity ratio

INPUT:

5 inputs for the transmission controls
1 input for the measurement of the spin velocity of the propeller shaft
3 possible inputs for the measurement of the driving shaft (alternator / PNP proximity, magnetic pick-up, Namur proximity)
1 input for the selector of the functioning mode (Manual/Automatic).

WEIGHT: 3.5 lbs (1.5 Kg)

OVERALL DIMENSIONS: 255 x 167 x 87 mm

The automatic transmission constantly measures the spin velocity of the propeller shaft and of the driving shaft, moreover it automatically selects the better velocity ratio according to the programmed values.

Automatic mode: thanks to the transmission controls the operator sets the max gear which it is possible to select, the device cannot engage a gear higher to that operated to the operator. For safety reasons, if someone selects a gear from the control cab when the vehicle speed is above the programmed range of values, the new gear won't be immediately engaged, the device waits for the vehicle speed to be decreased.

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Manual mode: In the manual mode, the transmission follows the gear selected by the operator on the programming velocity and values, except for the changes of directions during which the device functions as anti-reverse.



Safety functions

Some safety functions are always operating in automatic and manual mode.

Protection at the start and in reverse direction: the device prevents reverse directions or engagements of any gear from the idle position if the vehicle speed is excessive respect to the programmed values.

Transmission gear shifting: if the transmission is changed over from a gear (forward gear or reverse gear) to the idle position, it is possible to go back to the gear selected before even if the value of protection at the start has been exceeded.

Protection on the engine spin velocity: the spin velocity of the driving shaft is constantly compared to the programmed safety limit value.

Connection

The device is equipped with three connectors for the needed external connections.

Connector P1:
it is a 25-pin fermale connector type subminiature-D

pin-01 (out): feed voltage far the velocity sensors, positive (+24 Vdc)
pin-02 (out): feed far the velocity sensors, negative
pin-03 (out): G0 signalforthesolenoid valve for the FORWARDGEAR engagement
pin-04 (out): G1 signal forthe solenoid valve for the REVERSE GEAR engagement
pin-05 (out): G2 signal forthe solenoid valve for the SECOND GEAR engagement
pin-06 (out): G3 signal forthe solenoid valve for the THIRD GEAR engagement
pin-07 (out): G4 signal forthe solenoid valve for the FOURTH GEAR engagement

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pin-08: not connected
pin-09: not connected
pin-10: not connected
pin-11: not connected
pin-12: not connected
pin-13: not connected
pin-14 (in): signal from the velocity sensor far the measurement of the propeller shaft spin velocity (PNP proximity)
pin-15 (in): signal from the alternator or the velocity sensor (proximity PNP) far the measurement of the driving shaft spin velocity.
pin-16: not connected
pin-17: not connected
pin-18: not connected
pin-19 (in): alternate input far the measurementof the driving shaft spin velocity, magnetic pick-up
pin-20 (in): alternate input far the measurement of the driving shaft spin velocity, Namur proximity
pin-21: not connected
pin-22: not connected
pin-23: not connected
pin-24: not connected
pin-25: not connected

It is possible lo use just one of the possible velocity sensors of the driving shaft:

- The signal from the alternator
  (To be connected with the pin-14 of the connector Pl)
- The signal from a PNP proximity
  (To be connected with the pin-14 of the connector Pl)
- The signal from a magnetic pick-up
  (To be connected with the pin-19 of the connector Pl)
- The signal from a Namur proximity
  (To be connected with the pin-20 of the connector Pl)

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Connector P2:
it is a 15-pin male connetor type subminiature-D

pin-01 (in): feed voltage for the control unit, positive (+24Vdc)
pin-02 (in): feed voltage for the control unit, negative
pin-03 (in): control signal from the gear box: FORWARD GEAR
pin-04 (in): control signal rom the gear box: REVERSE GEAR
pin-05 (in): control signal from the gear box: SECOND GEAR (IDLE)
pin-06 (in): control signal from the gear box: THIRD GEAR
pin-07 (in): control signal from the gear box: FOURTH GEAR
pin-08 (in): not connected
pin-09: not connected
pin-10: not connected
pin-11 (in): signal from the functioning mode selector
pin-12: not connected
pin-13: not connected
pin-14: not connected
pin-15: not connected

Connector P3:
it is a 37-pin fermale connector type subminiature-D.
This connector is for the connection with the portable display and programming unit. The programming unit is for the programming of the configuration parameters of the control unit; moreover it allows the display of the updated state of the control unit.

CAUTION: Switch off the control unit before the connection of the programming unit.

Switching the control panel again after the connection of the programming unii, the display shows for some seconds:

AUTOMATIC GEAR
SHIFT SYSTEM

And

IMEL and AUTEL
Rel. X. X.

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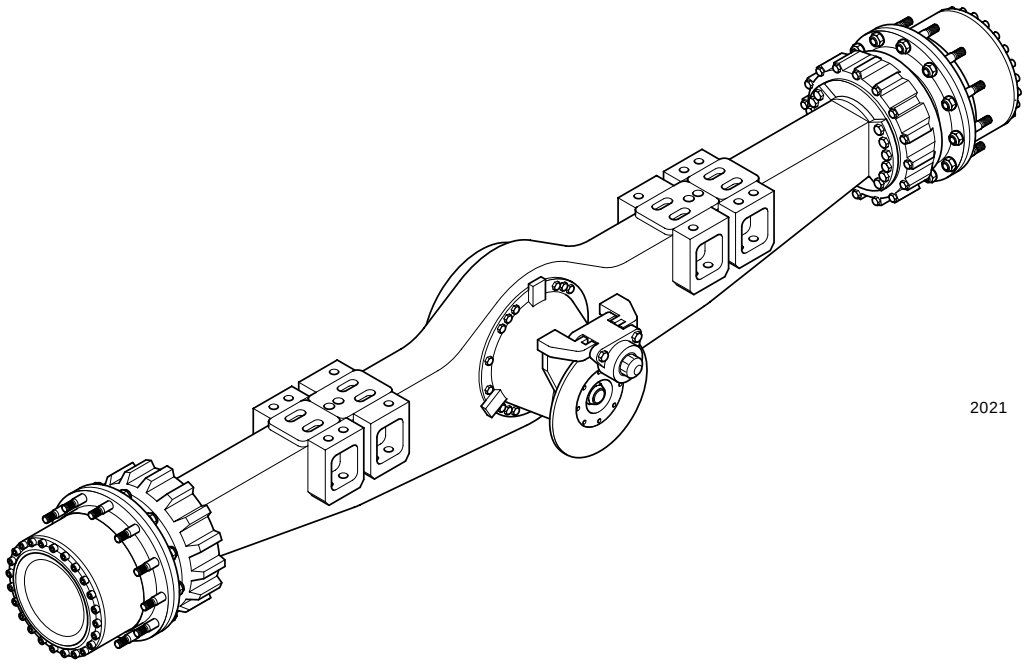
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6.1 DIFFERENTIAL AXLE

Function

The axle transfers movement from the transmission to the driving wheels. It comprises the differential and the epicyclic hubs for the wheels.
The service brakes, incorporated in each hub, feature multi-plate discs and are oil-cooled.
The parking brake, positioned on the axle itself, consists of a disc and an electrohydraulic-acting caliper.



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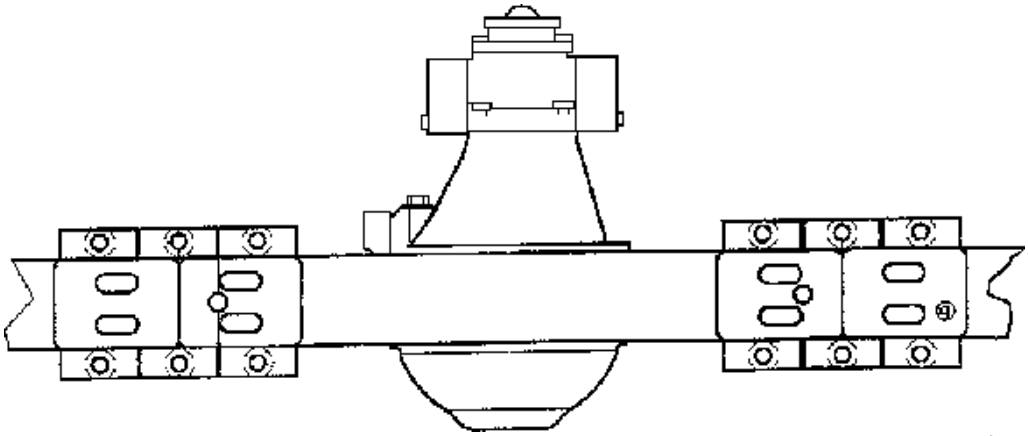
Safety precautions

Before starting the inspection: make sure the diesel engine is off, the disconnecting switch is disengaged and the machine is stable and braked

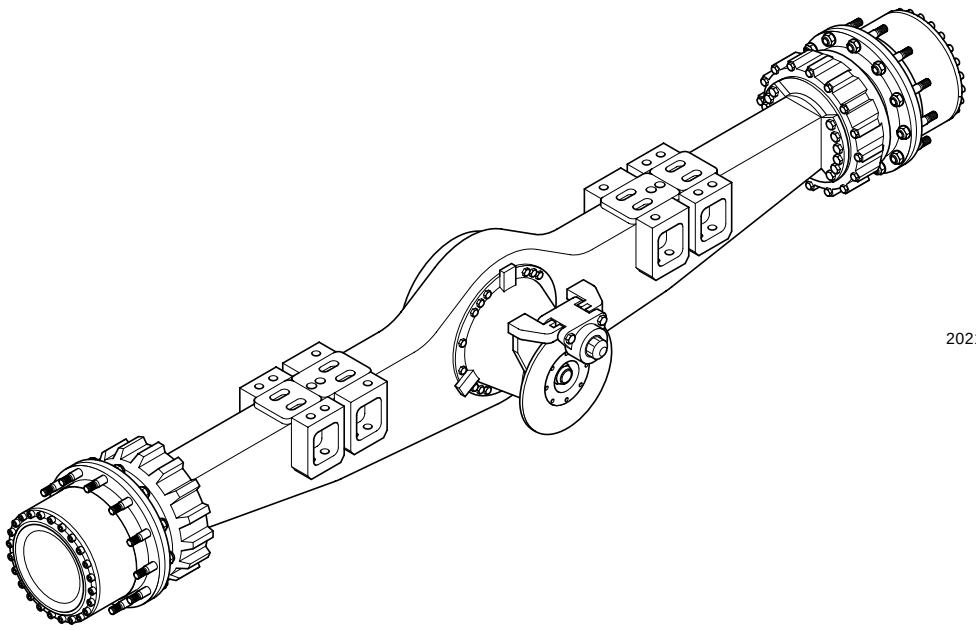
Lifting: if the machine is lifted by means of special hydraulic jacks in order to perform maintenance operations, place wedges under the wheels of the rear axle and further supports under the machine support points.

Before beginning work: including removal of wheels, completely deflate the tyres. Never stand directly in front of the tyre when deflating or inflating.

Draining the oil: to drain off the oil from the hubs or differential housing, use a container large enough to hold the quantity of oil to be drained off. Dispose of the oil in accordance with the regulations applicable in the country where the machine is used.



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Service

Sight check: make a daily check to see there are no oil leaks on the outer part of the axle.
Oil check: every 100 hours, check the level of the oil on the hubs and in the differential housing.
Changing the oil: replace the oil in the hubs and differential housing every 1000 work hours.
Refer to the specific axle manual for more details concerning maintenance, adjustment, fitting and removal of components.

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6.2 CARDAN SHAFTS

Function

The machine features cardan shafts to transmit movement from the gear-box to the differential axle.

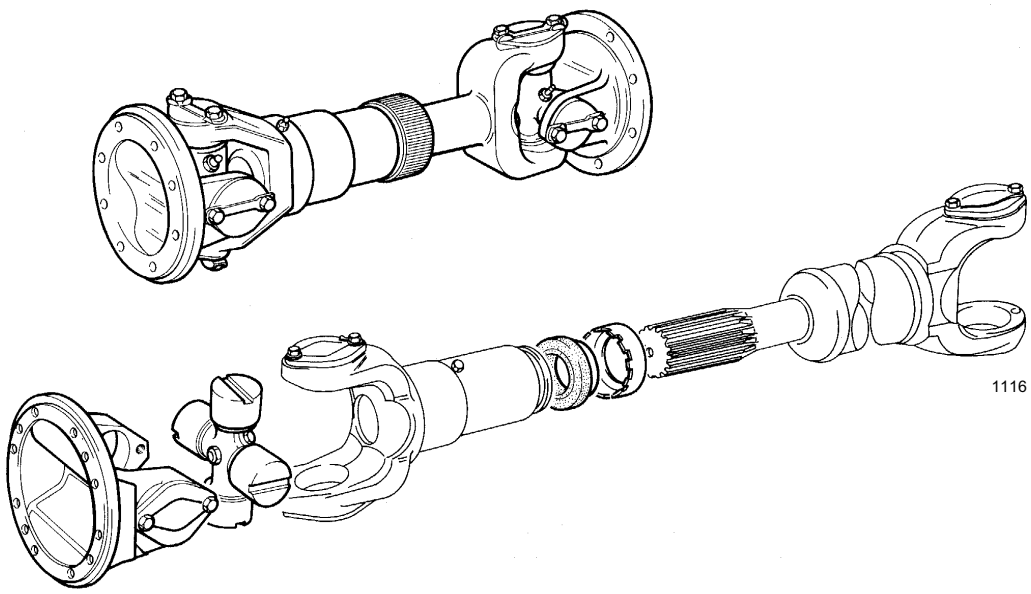
Safety precautions

Before starting the inspection, always make sure no one switches on the machine, unless expressly requested to do so.

Service

Sight check: Check integrity, cardan shaft fastening and tightness of the bolts.
Lubrication: The articulated joints feature greasing nipples. Apply lubricant until rings of grease form to protect the joints. To lubricate the cardan shafts, a portable manual pump can be used.
Cleaning the slide areas: The slide areas of the shafts must be clean and not painted. Periodically clean these using suitable means and grease to protect against corrosion.

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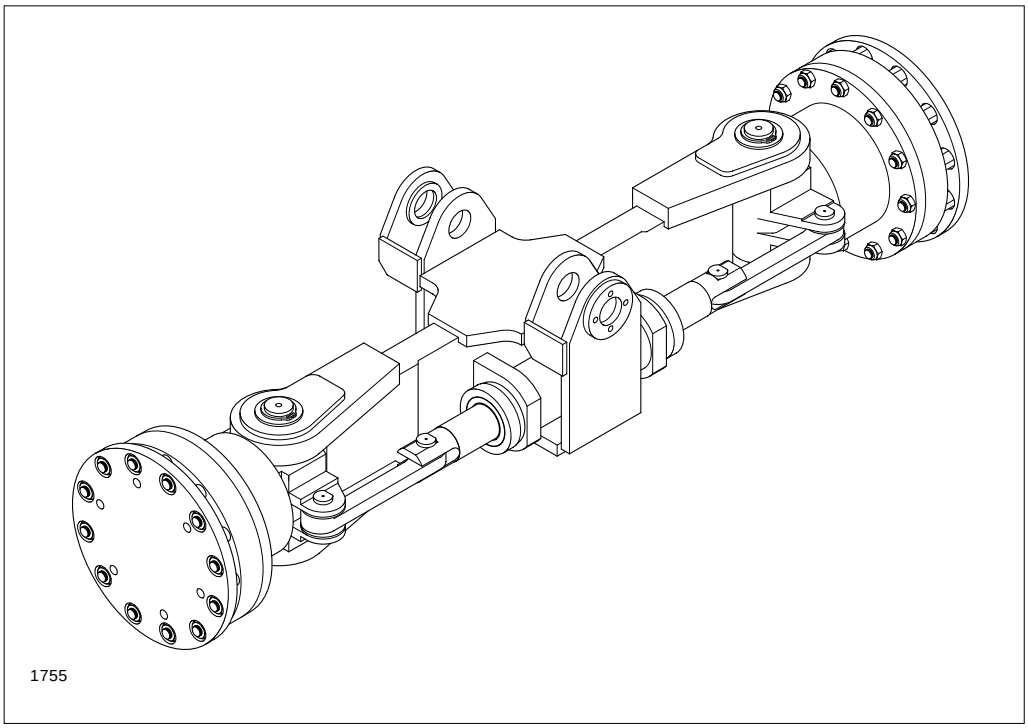
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7.1 STEERING AXLE

Function

The steering system is servo-assisted by power-steering linked to an hydraulic cylinder on the axle itself. Cylinder movement is transmitted to two connecting rods fitted on the hubs.
The axle can feature stabiliser cylinders and brake discs on the wheel hubs (optional).







Safety precautions

Before starting the inspection: make sure the diesel engine is off, the power disconnecting switch is disengaged and the machine is stable and braked.
Lifting: if the machine is lifted by means of special hydraulic jacks in order to perform maintenance operations, place wedges under the wheels of the front axle and further supports under the machine support points.
Before beginning work: (including removal of wheels) completely deflate the tyres. Never stand directly in front of the tyre when deflating or inflating.

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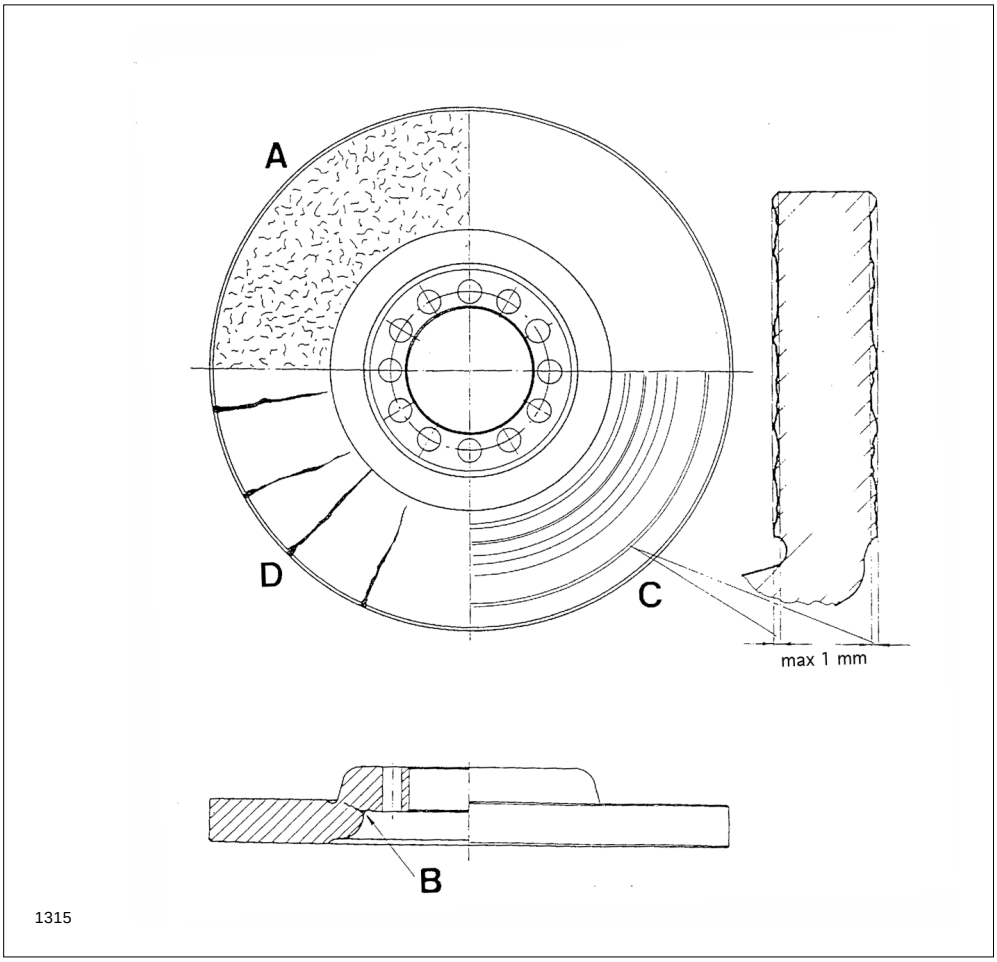
Service

Sight check: every 100 work hours, check the general condition of the axle.

Greasing: every 250 work hours grease all the parts of the axle featuring a lubricator.

Cleaning: keep the surfaces and articulations clean and free of grease.

Disc brakes: every 200 work hours, check the condition of the disc and brake pads. Make sure the disc is not deformed and cracked. Never fall below minimum acceptable thickness.



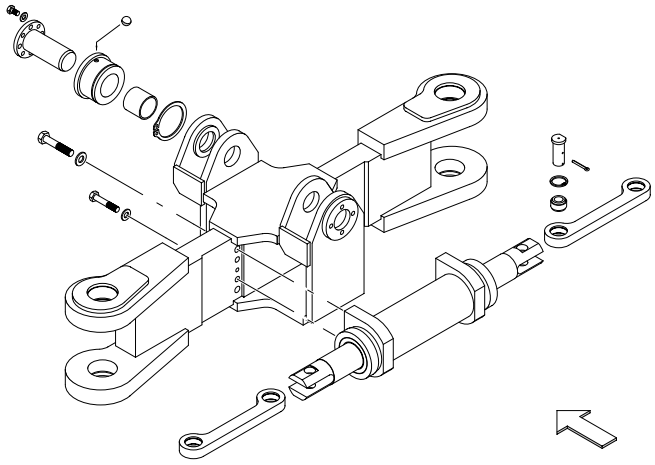
A – Formation of cracks – acceptable
B – Radial cracks – not acceptable
C – Surface not uniform under 1 mm – acceptable
D – Continuous cracks – not acceptable

In the event of the brake disc having to be re-machined, never remove more than 2 mm on each side.

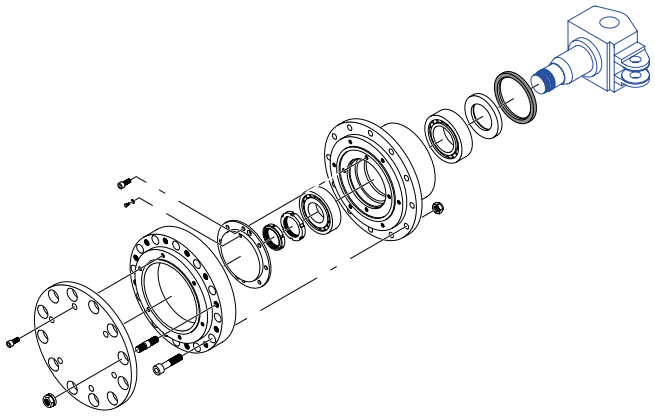
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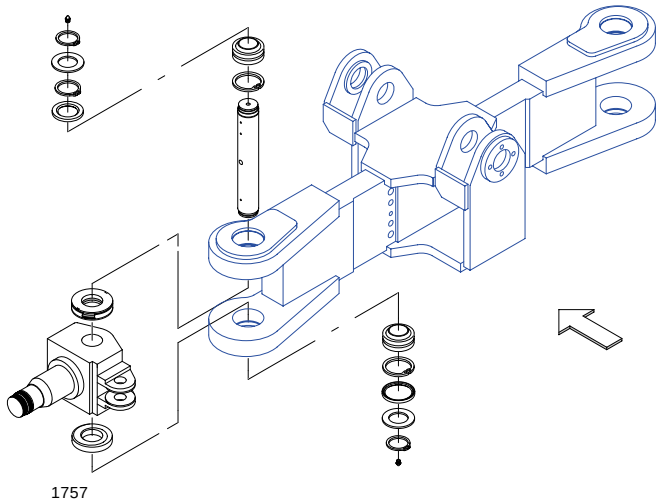
7.2 AXLE STRUCTURE



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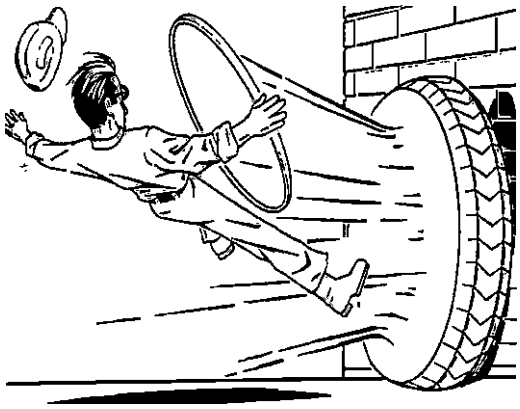
8.1 WHEELS

Function

The machine is equipped with special tyres, suitable for sustaining all normal loads and stress.

Safety precautions

Before starting inspection, make sure no one can start the machine.
Make sure the machine is stable and braked.
Inflation, maintenance and replacement operations are dangerous because they can cause tyres to burst. Such operations must therefore only be performed by skilled personnel.
When inflating tyres, protect yourself against the ring rim coming off and the tyre bursting.



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Make sure the air humidity is not excessive.
In coastal areas, it is best to fit filters to prevent humidity entering the tyres.

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Service

Sight check: When the machine features twinned wheels, inspect the area between the two tyres. Any foreign bodies must be removed, taking every precaution.
Check tyres and rims. If these show signs of damage, repair immediately. Stones and gravel can increase the damage and cause hazards for personnel and the machine.
Make sure the wheels are parallel.
Tyre pressure (fig. 3):
The tyres must be inflated at the pressure indicated on the plate.
Fastening tyres (fig. 3):
Make sure the nuts are fast and tighten with a torque shown on the plate
Wheel parallelism:
Make sure the wheels are parallel.

How to inflate the tyres:
1 - Ask all personnel to leave the area
2 - Fit the self-locking connector on the tyre valve
3 - Take up a position at the side of the wheel at a distance of at least 2 metres from the wheel centre, as shown in fig. 1. Absolutely avoid taking up the position shown in fig. 2 because in the case of the tyre bursting, this would cause serious injury or death.
4 - Cautiously, start to inflate the tyre, frequently making sure the pressure does not exceed the value indicated on the plate shown in fig. 3.
5 - When the pressure is correct, disconnect the self-locking connector and screw the valve cap back on

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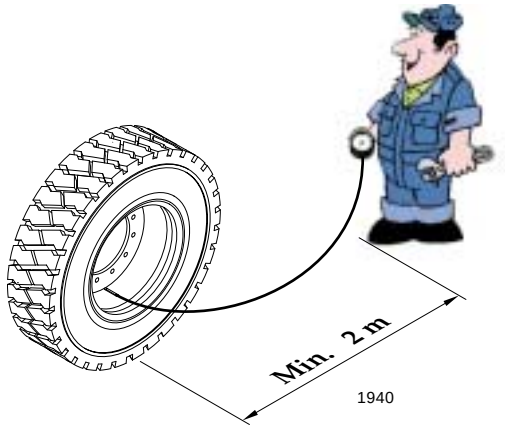


Fig. 1

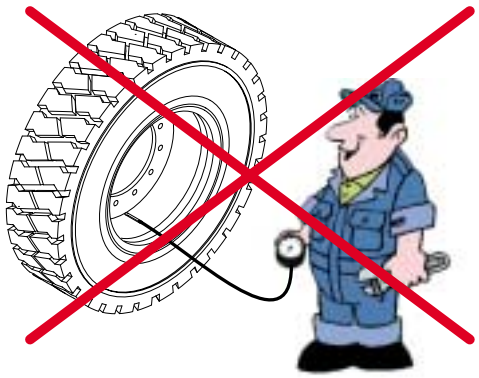


Fig. 2

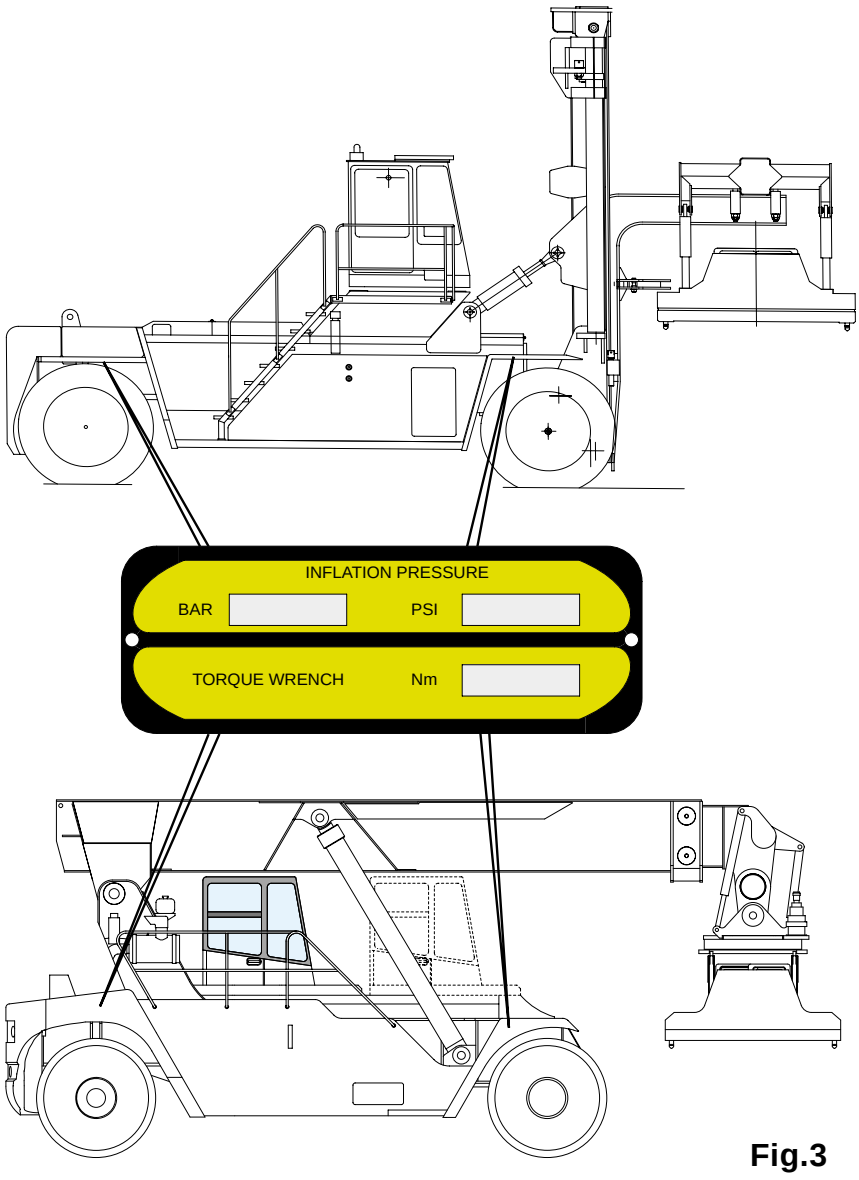


Fig.3

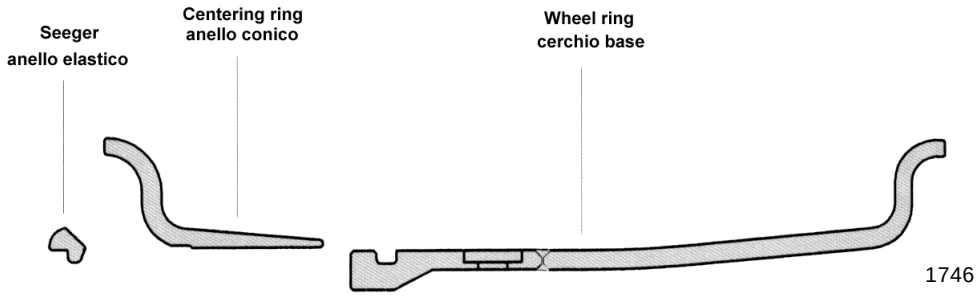
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8.2 WHEEL AND TYRE FITTING

Only qualified personnel must be assigned to tyre fitting and servicing operations.

Materials required

The material required to change the tyre is:
- Tyre
- Wheel complete with snap ring
- Two tyre levers
- Hammer
- Tyre fitting paste
- Tubeless valve for earth moving machinery
- Triangular gasket
- Three self-locking pliers with parallel jaws



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First stage

Place the wheel on three blocks so it is approx. 10 cm off the floor and fit the valve.
Grease the parts of the wheel in contact with the tyre and the seat of the triangular gasket, both on the wheel and the tapered ring. Grease the tyre beads.



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Second Stage

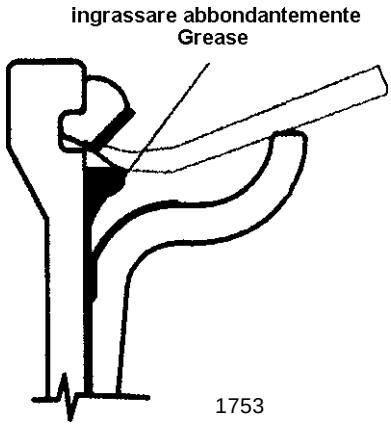
Fit the tyre to the basic wheel and then to the tapered ring. With the aid of the tyre levers, fit the rubber triangular gasket in its seats (see drawing below).



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Third stage

Uisng the tyre levers, lower the tapered ring so that the triangular gasket is completely exposed and so grease may be applied in the area indicated in the drawing.



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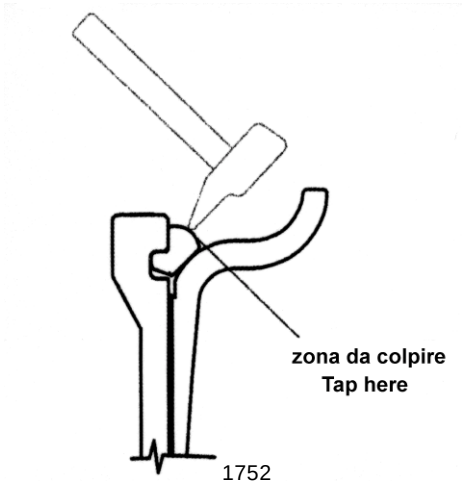
Fourth Stage

Begin the first stage of the inflation procedure by firmly applying the three pliers at regular intervals to ensure that the snap ring adheres perfectly to the wheel (see drawing below). Open the air supply to inflate the tyre to the point where the pliers are ejected or until the tapered ring closes the snap ring.

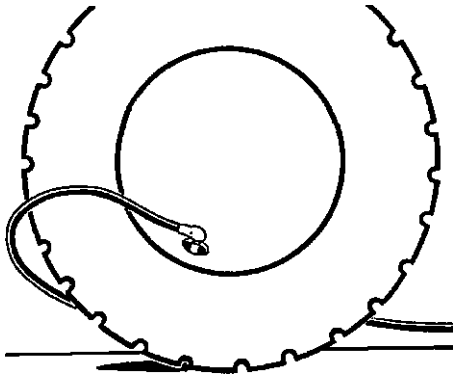
For safety reasons, the tyre must be contained within a safety cage during inflation.



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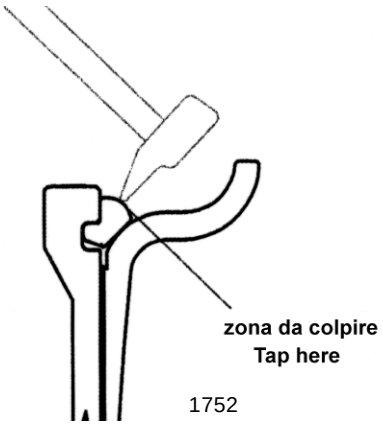
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Fifth Stage

Using a hammer, tap the snap ring to seat it correctly. Check that it is tight against the wheel (see drawing), then proceed with the final inflation.

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8.3 PERIODIC MAINTENANCE

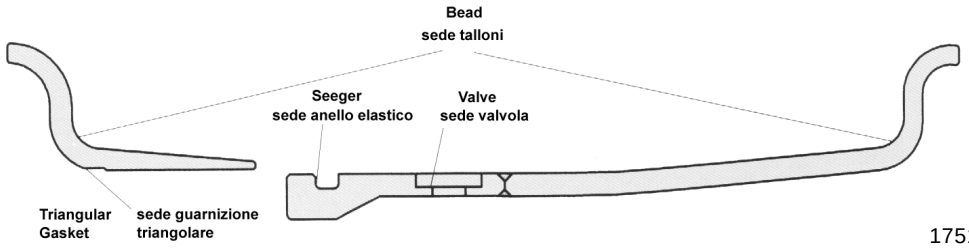
Wheels and tyres should be serviced at least once a year.
Service operations must be assigned to qualified personnel only.

Procedure

1 - Deflate the tyre
2 - Remove the tyre from the wheel
3 - Brush the seats (tyre beads and ring seat)
4 - Inspect the wheel for signs of wear
5 - The wheels should be subjected to magnetoscopic inspection in the following areas:
  - snap ring seat
  - tyre bead seat on baisc wheel
  - tyre bead seat on tapered ring

Do not carry out any welding on the wheel without express authorisation.
Replace worn parts with original replacement parts only.
The wheel must be checked at each tyre change and at least once every 12 months.

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8.4 TYRE REMOVAL

Always check that the tyre fully deflated before carrying out any operations on the tyre or wheel.

Removal procedure

1 - Undo the bolts and separate the tyre from the machine.
2 - Remove the snap ring using a lever and then remove the triangular rubber gasket.
3 - Separate the rear part of the basic wheel using a spike or a semi-automatic machine.
4 - Withdraw the wheel from the tyre.
5 - Separate the tapered ring from the tyre using a spike or a semi-automatic machine.

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8.5 RIMS

Maintenance

The following operations should be done:

- remove the wheel from the vehicle and remove the tire. Clean the wheel carefully, particularly the mating surfaces.
- Examine the rim along its entire circumference; examine the wheel disc, paying particular attention to the area where it is secured to the hub;
- Check for any signs of wear or buckling, rust, breakages or cracks;
- Check that all surfaces, in particular those in contact with the tire or the vehicle, are sufficiently protected against corrosion: repaint, if necessary, after having first removed any surfaces rust and applied a suitable primer. Take care not to apply too great a thickness of paint on the mating surfaces.

Rims and centers must NEVER be repaired by wel-ding or by “patching” areas where material is lacking as these types of repair would not withstand the stresses to which the wheel is subjected. When replacing entire wheels, and especially when replacing the removeable rings of composite rims, make sure the new parts are perfectly interchangeable with the old parts. They must be identical in size, type, and section. Matching identification marks serve as a guide to the suitability of the parts. Pay particular attention to the contact surfaces of the rim when the tubeless tires are to be fitted.

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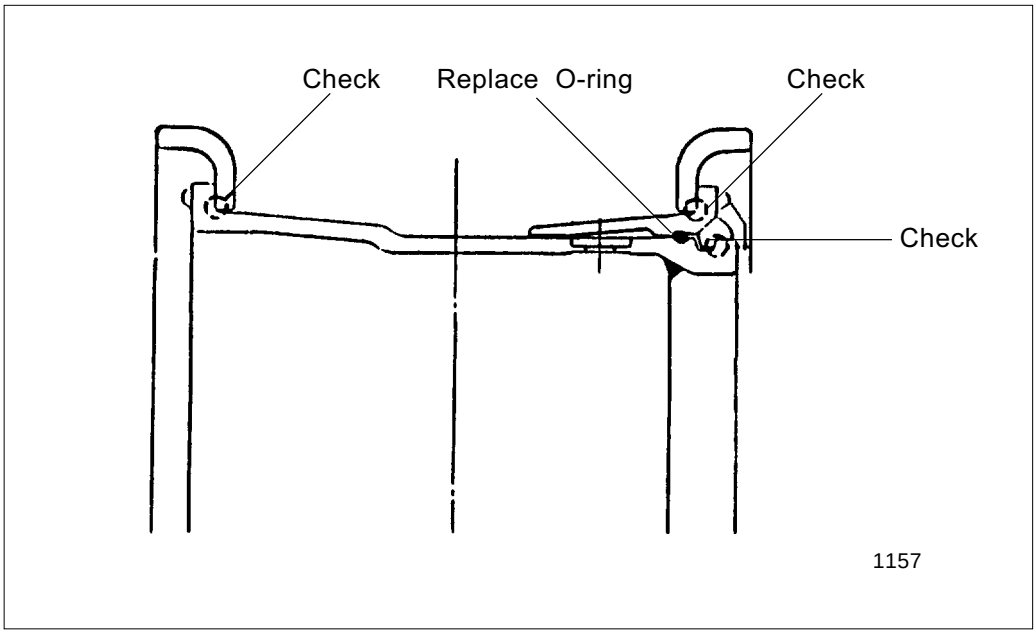
Checking the rims

At each tire change carefully inspect the rims at the points shown in the illustration in the following manner.

- remove the tire and disassemble all the rim components;
- clean thoroughly all the areas to be examined;
- carry out a careful visual inspection, and cases of doubt, use a penetrating dye test in order to discover any cracks.
- Inspect all the component parts of the rim for signs of wear, dents or other damage.

Replace any parts found to be damaged. Always use a new ring seal (o-ring) before reassembly. Clean any areas of rust with a wire brush and treat with an anti-rust compound.

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NOTE

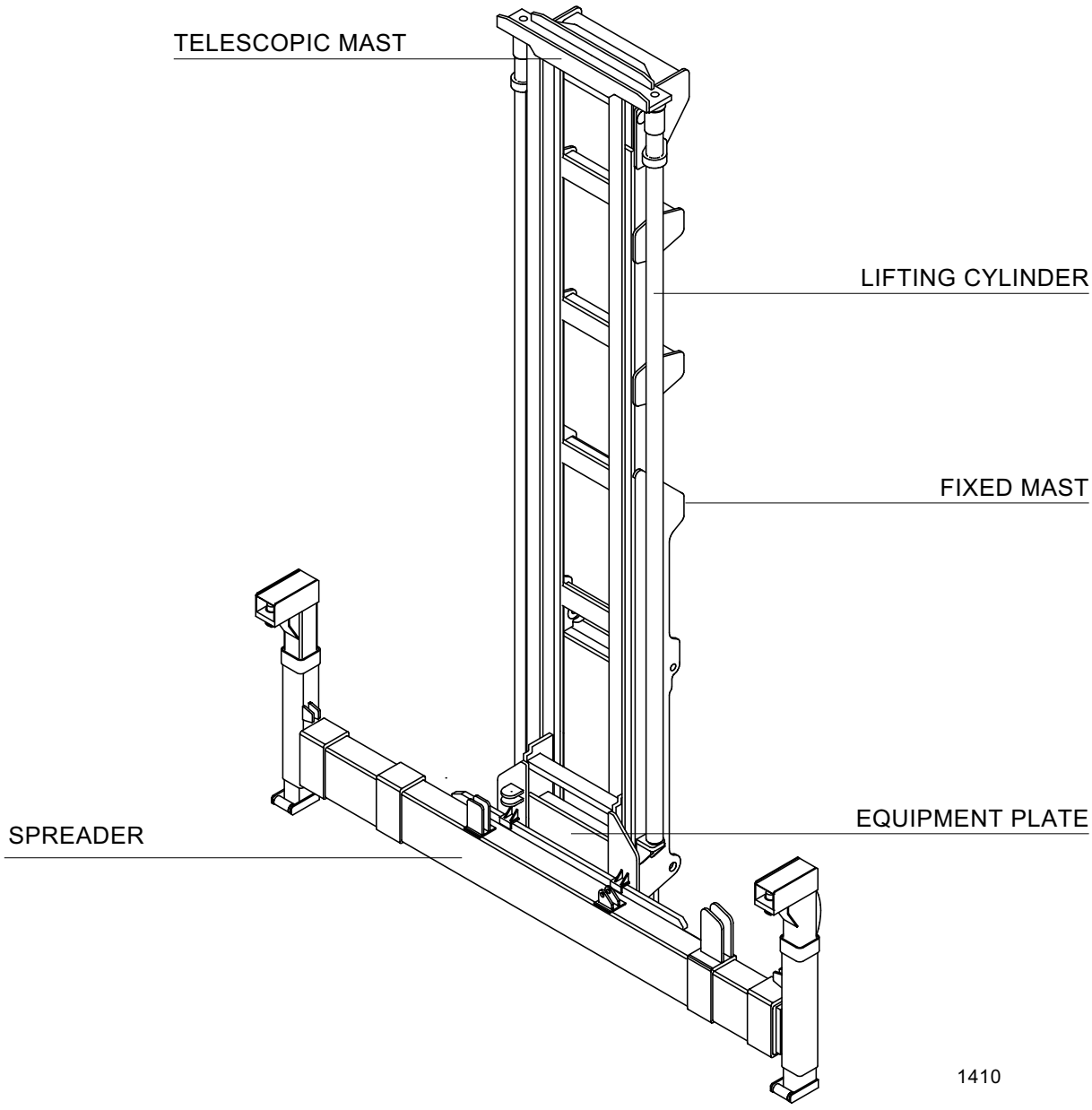
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9.1 DESCRIPTION

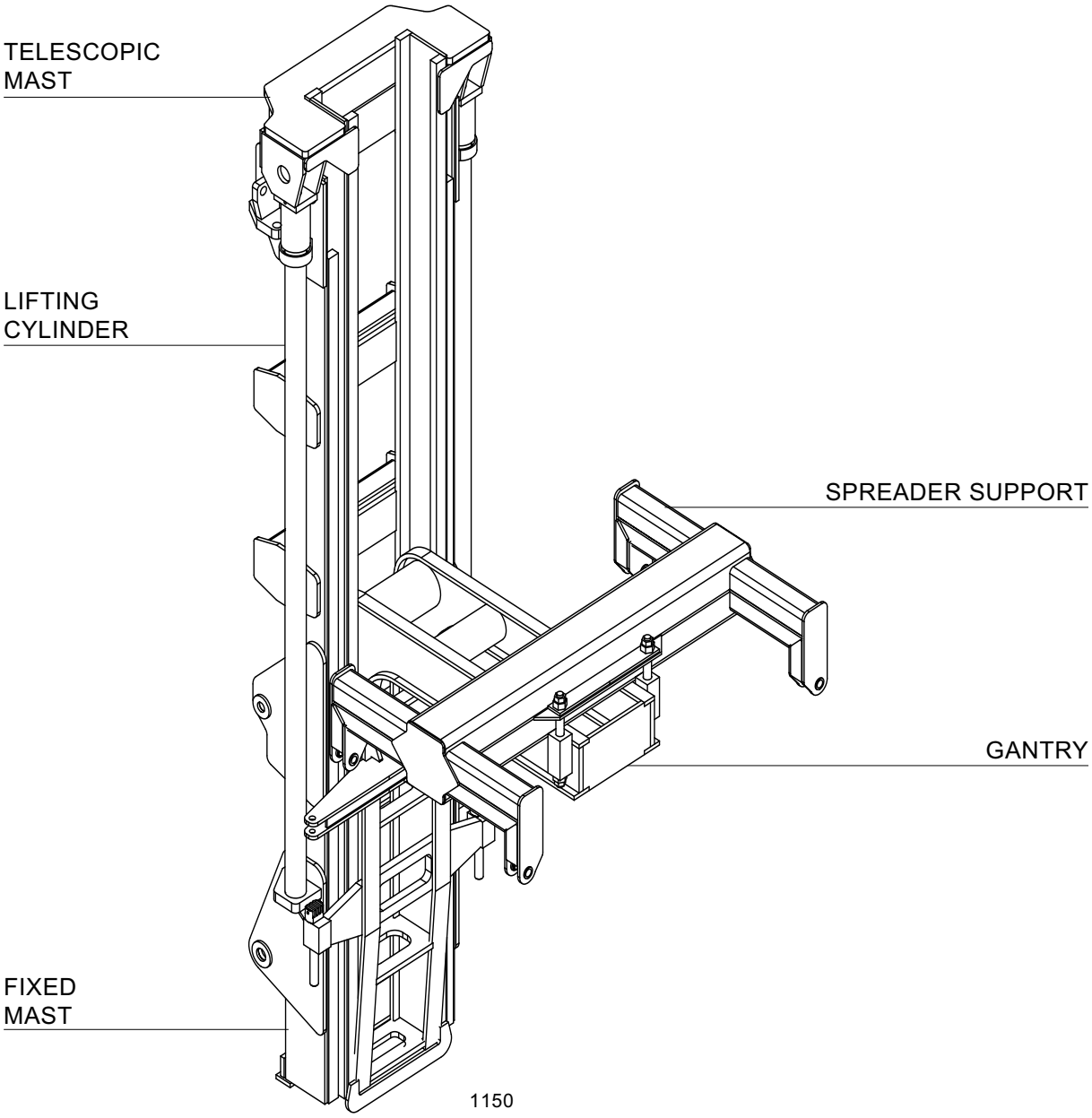
The mast assembly consists of:

- Fixed Mast
- Telescopic Mast
- Lifting cylinders
- Hoist cylinders and chains
- Equipment plate
- Equipment (Spreader, forks, rostrum, …)

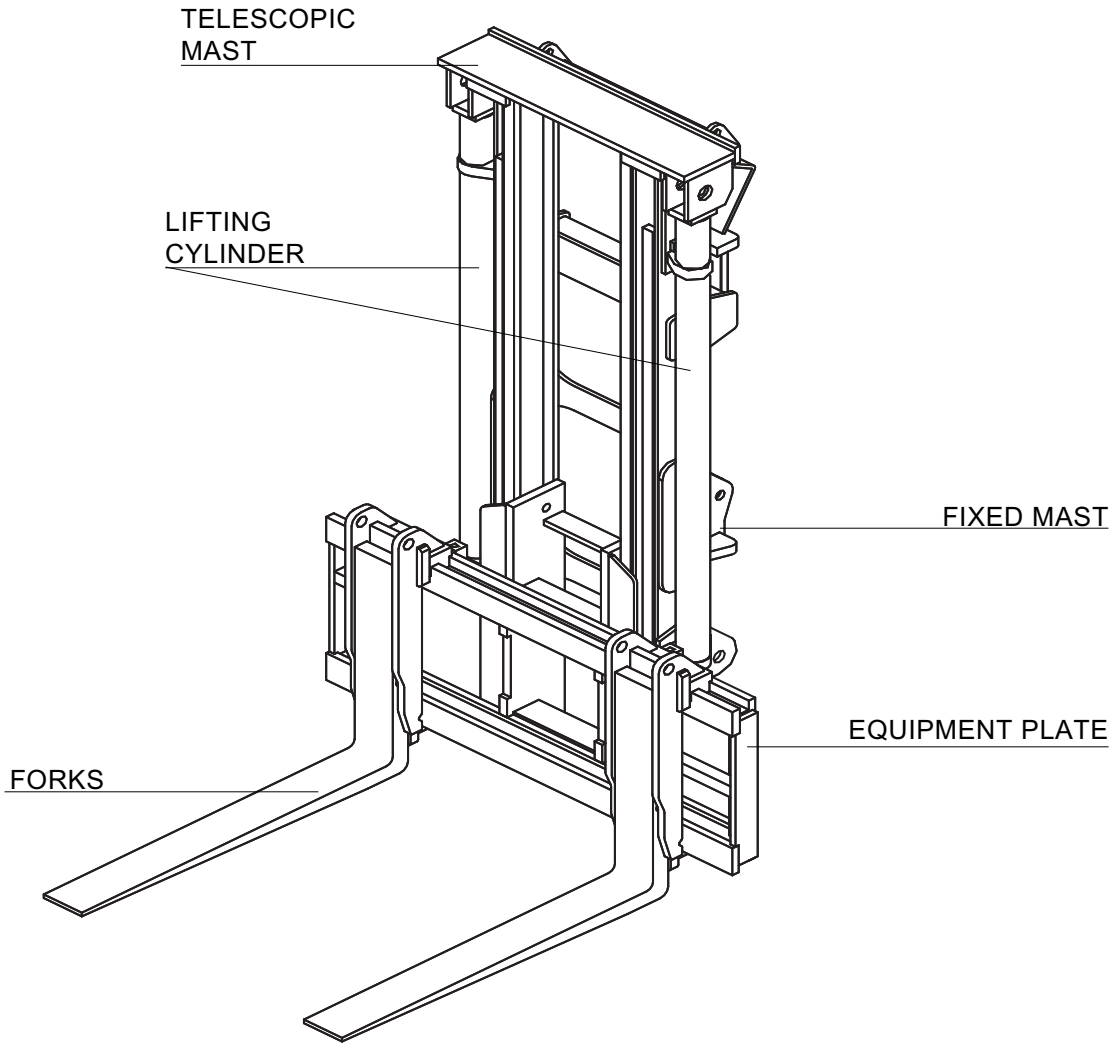
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9.2 THRUST SHOES

Function

The lifting unit features 8 thrust shoes, 2 on the upper part of the fixed mast, 2 on the bottom of the telescopic mast and 4 on the equipment bearing plate.
The thrust shoes protect the slide rollers and restrict side swing of the telescopic mast and equipment bearing plate, maintaining correct alignment.

Service

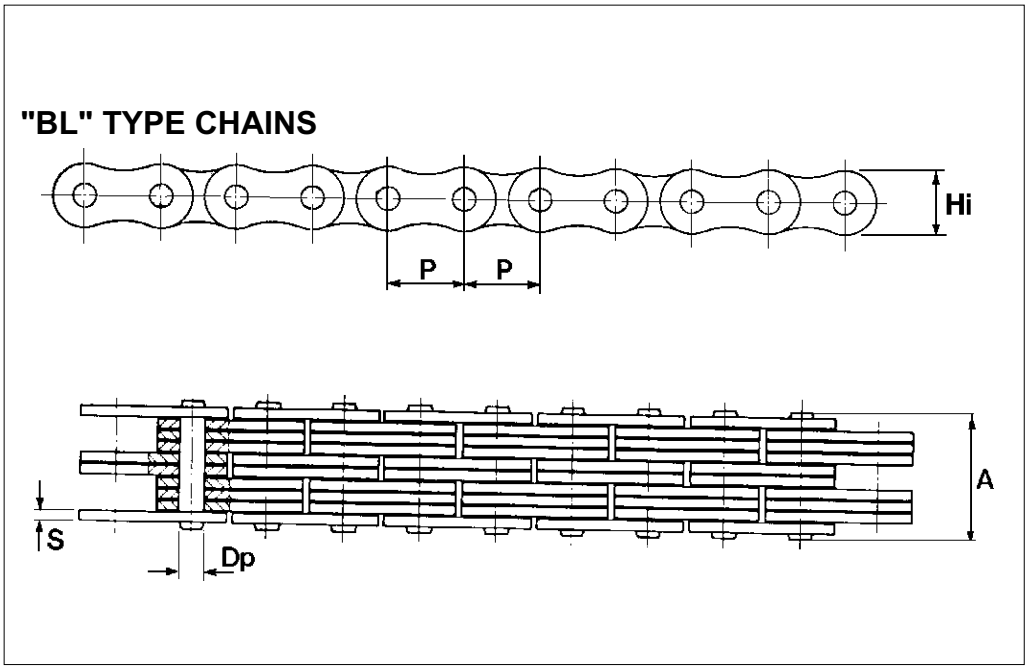
The distance between the thrust shoe and the contrasting section must be under 1.5 mm (1/16”). If this distance is larger, change the shoes.
Replacing the thrust shoes on the fixed mast
Lower the equipment to minimum height and switch off the engine.
Loosen the four retention screws on the thrust unit.
Remove the thrust unit and loosen the four screws to separate the support from the shoe.
Replace the shoe and replace the four screws.
Fit the thrust unit and tighten the four screws to secure the unit to the fixed mast.
Replacing the thrust shoes on the telescopic mast
Slightly lift the equipment bearing plate so as to have free access to the retention screws of the thrust unit and switch off the engine.
Loosen the four retention screws of the thrust unit.
Remove the thrust unit and loosen the four screws to separate the support from the shoe.
Replace the shoe and tighten the four screws.
Fit the thrust unit and tighten the four screws to secure the unit to the telescopic mast.
Replacing the thrust shoes on the equipment bearing plate
Fully lower the equipment bearing plate and switch off the engine.
Loosen the four retention screws of the thrust unit.
Remove the thrust unit and loosen the four screws to separate the support from the shoe.
Replace the shoe and tighten the four screws.
Fit the thrust unit and tighten the four screws to secure the unit to the equipment bearing plate.
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9.3 LIFTING CHAIN

Function

Only BL type chains are used on the lifting unit.



1310/1312

Chain Type	Pitch (P)	Pin Diameter (Dp)	Height (Hi)	Link (S)	Width (Ai)
BL - 1266	38,1 1" 1/2	12.70 1/2"	34.40 1" 23/64	5.5 7/32"	62.7 2" 15/32
BL - 1466	44.45 1" 3/4	14.27 9/16"	40.8 1" 39/64	6.3 1/4"	85.0 3" 11/32
BL - 1666	50.8 2"	17.46 11/16"	47.9 1" 57/64	7.0 9/32"	93.8 3" 45/64
BL - 1688	50.8 2"	17.46 11/16"	47.9 1" 57/64	7.0 9/32"	123.3 4" 55/64

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Precautions

Carefully inspect the chains at regular intervals. A worn chain, unlike a cable, may not show signs of wear or imminent breakage. Chain breakage can cause injury to persons and damage to the load and machine.
To lubricate the chains, use only the lubricant specified in the scheduled maintenance plan (section 2 of this manual).
To facilitate lubricant penetration, free the chain of the load before proceeding to lubricate.
To prevent personal injuries, do not lubricate the chain while the machine is moving.

Servicing

To ensure ongoing machine operation, the lifting chains must be properly serviced. Good maintenance involves chain inspection, cleaning, lubrication and adjustment.

Chain inspection and determination of wear

A sight check of the chains must be made in accordance with the scheduled maintenance plan, with special attention being given to:
- Abnormal protrusions or outjutting pins
- Turned-around pins
- Worn surfaces or pin heads
- Worn horizontal parts and reduced height of chain links
- Narrow articulated joints
- Missing links and pins
- Chain lubrication
- Chain tension

If one of the chains is worn, both chains must be immediately replaced.

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Hoisting chains – Inspection of wear

- Chain elongation: Measurement on chain slightly tensioned on segment long 1/5 to 1/15 of the total lenght. Maximum admissible elongation: 2% on most worn segment.
- Wear of the plate profile: Where the phenomenon is more evident, maximum allowable reduction in height 2.5% on just one side, 4% on both sides, with reference to the initial height.
- Wear of side chain: replace the chain if the head of the pin has been worn more than 25% of the initial head lenght or the plate thickness is worn more than 20% of the initial thickness.
- Inspection frequency: At least every 3 months or 1000 hours of operation, whichever first occurs.
- Replacement: Before new chain installation, the cause of the problem should be investigated.

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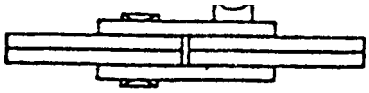
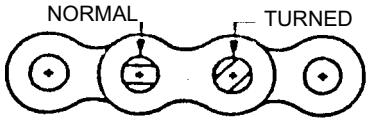
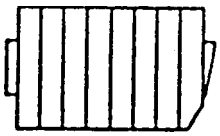
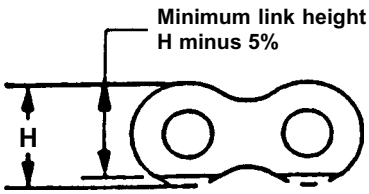
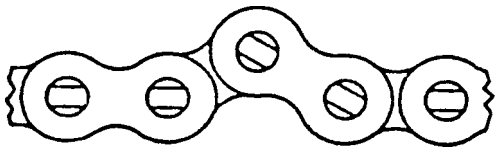
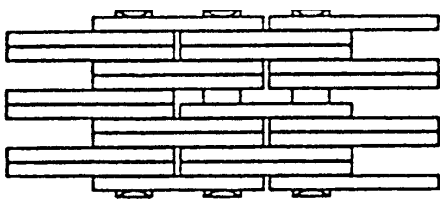
Type of chain mounted on the truck

	BL 1266	BL 1466	BL 1666	BL 1688
FDC 150/600	•			
FDC 100/1200	•			
FDC 120/1200	•			
FDC 160/1200	•			
FDC180/1200	•			
FDC 200		•		
FDC 220		•		
FDC 250			•	
FDC 280			•	
FDC 320			•	
FDC 380				•
FDC 420				•
FDC 450				•
FDC 480				•
FDC 500				•
FDC 18 K4 - K5 - K6	•			
FDC 20 K5 - K6	•			
FDC 25 K6 - K7	•			
FDC 25 K8	•		•	

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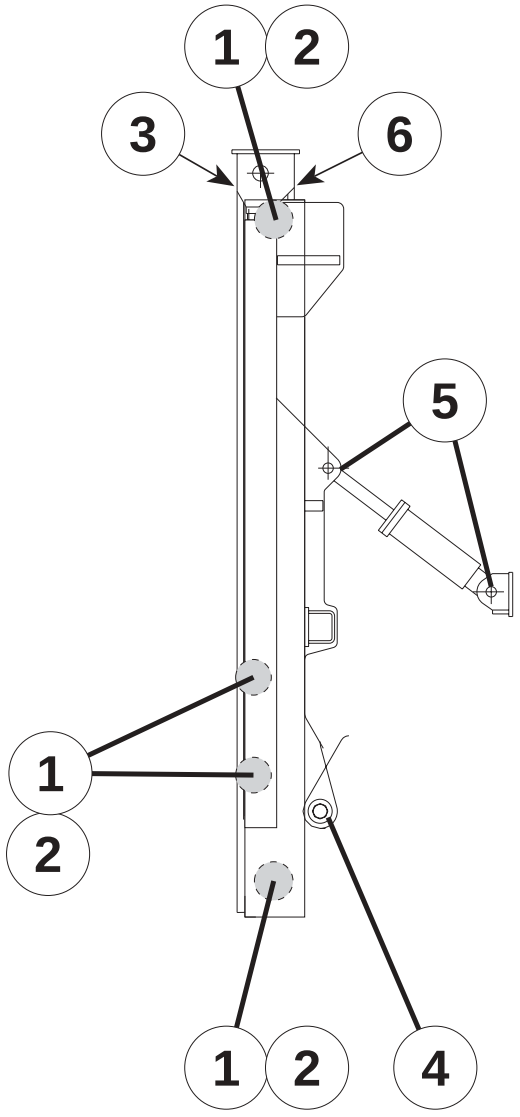
PERIODIC INSPECTION POINTS

APPARANCE AND/OR SYMPTOM	PROBABLE FAULT	CORRECTION
Abnormal Protusion 	Excessive friction by high loading & inadequate lubrication	Replace chain Improve lubrication & eliminate overloading conditions
Turned pins 		
Worn surfaces on outside links or pin heads 	Misalignment rubbing on guides	Check alignment to correct clearance
Worn Contour 	Normal wear on sheave bearing area	Replace chain when 5% of link height is worn 14 chain = 1.552 min. 16 chain = 1.773 min.
	Abnormal wear rubbing guides	Check alignment increase clearance
Tight joints 	Dirt or foreign substance packed in joints	Clean and re-lubricate
	or Corrosion & rust	Replace chain
	or Bent pins	Replace chain
Missing parts 	Missing at original assembly or due to failure	Replace chain

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Lubrication: every 100 work hours grease:
- the mast sliding rollers (position 1 – 2).
- the chain sliding rollers (position 3).
- the mast retention pins and the cylinders (position 4 – 5).

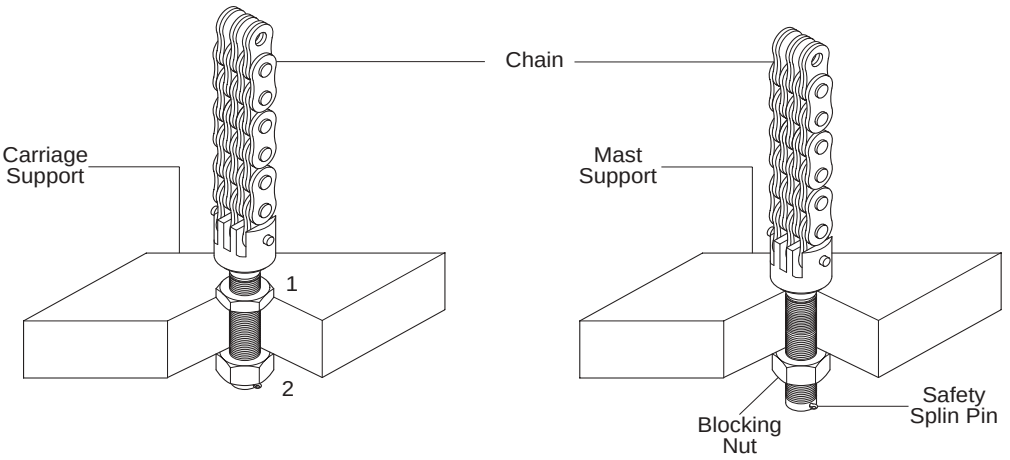
every 500 work hours, grease:
- the lifting chains (position 6).



1166

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Cleaning the chain: if a film forms that prevents new lubricant from penetrating, the chain will have to be cleaned before proceeding to apply new lubricant. To clean the chains, use a brush and non-inflammable solvent, a degreasing liquid or high-pressure cleaner at a temperature of at least 90°.
Lubricating the chain: if there are signs of oxidisation or dryness, the chains will have to be lubricated. To lubricate, use only lubricants of the type specified in the scheduled maintenance plan (see section 2 of this manual). Apply the lubricant to the chain using a brush. The lubricant must saturate the chain and penetrate between the links and the pins. To facilitate penetration, eliminate the load from the chain.
Adjusting the chain: the chains are connected to the upper part of the mast and to the equipment plate. To regulate the chain, adjust the chain/plate connection. The mast connection cannot be adjusted. Regulate chain length by means of nut (2) and locknut (1).
To increase chain length, unscrew nut (2) and tighten locknut (1).
To reduce chain length, unscrew locknut (1) and tighten nut (2).
After making the adjustments, carefully make sure the chains are identically tensioned and tighten the nut and locknut.
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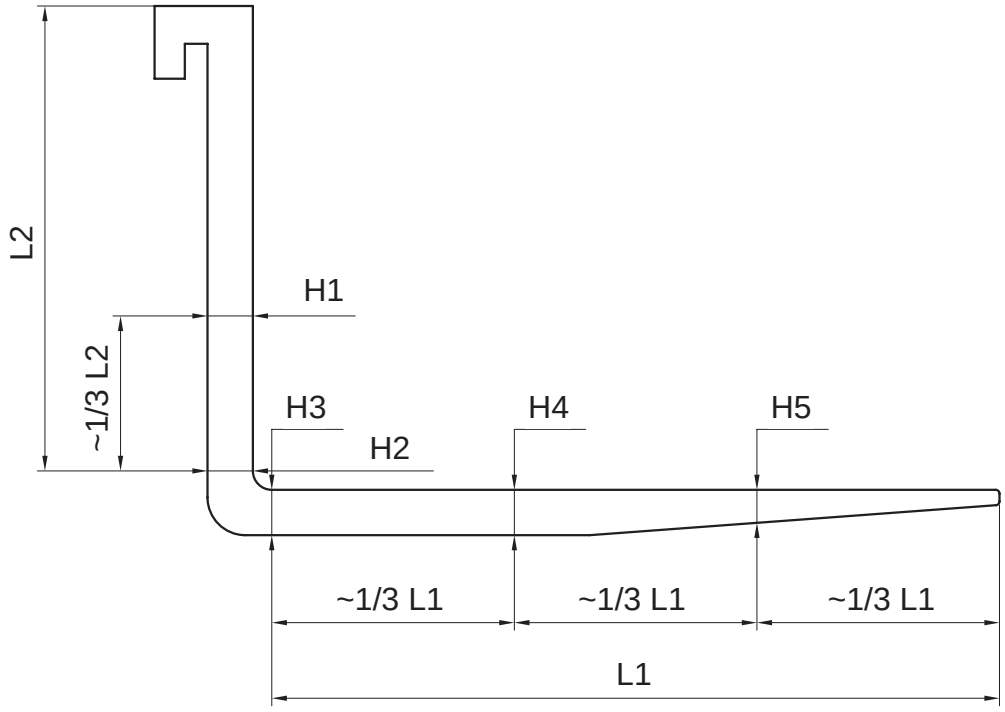


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9.4 CHECKING FOR WEAR

Check any changes in the geometric structure of the forks.
Using non-destructive methods, look for any cracks or faults at the points where the material undergoes most fatigue.
All the controls must comply with the figures indicated. Otherwise the forks must be withdrawn from service and, if possible, repaired.



1969

1. Fork dimensional checks

Function:
Permits checking whether the fork is excessively worn.
Procedure:
Measure the thicknesses H1, H2, H3, H4 and H5 shown in fig.1 and make sure these are at least 90% compared to the original thicknesses when they were new.

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2. Fork inclination check

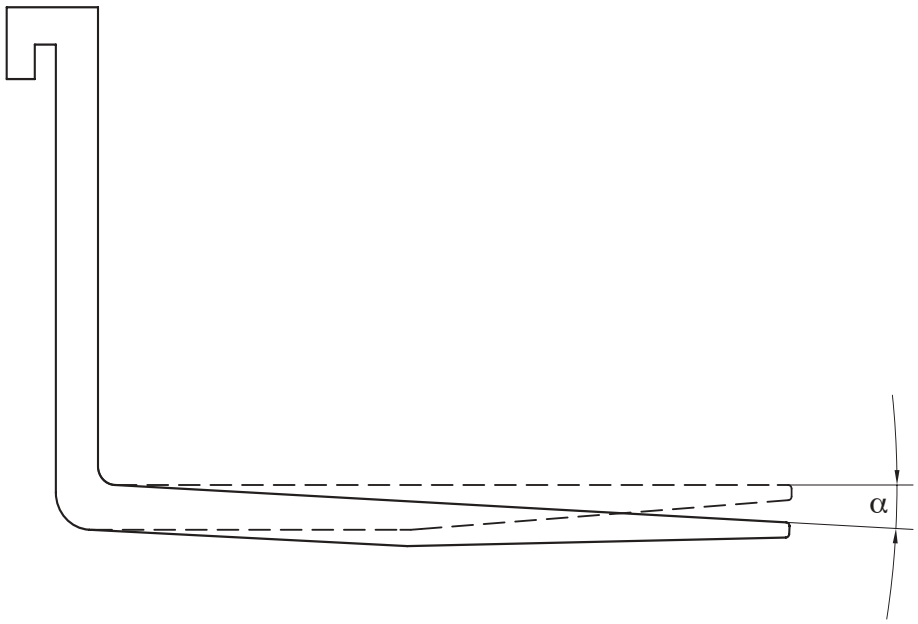


Fig.2

1970

Function:
Permits checking whether the fork has undergone excessive inclination.
Procedure:
Measure the angle α shown in fig.2 and make sure this is not over 3°

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3. Fork shape checks

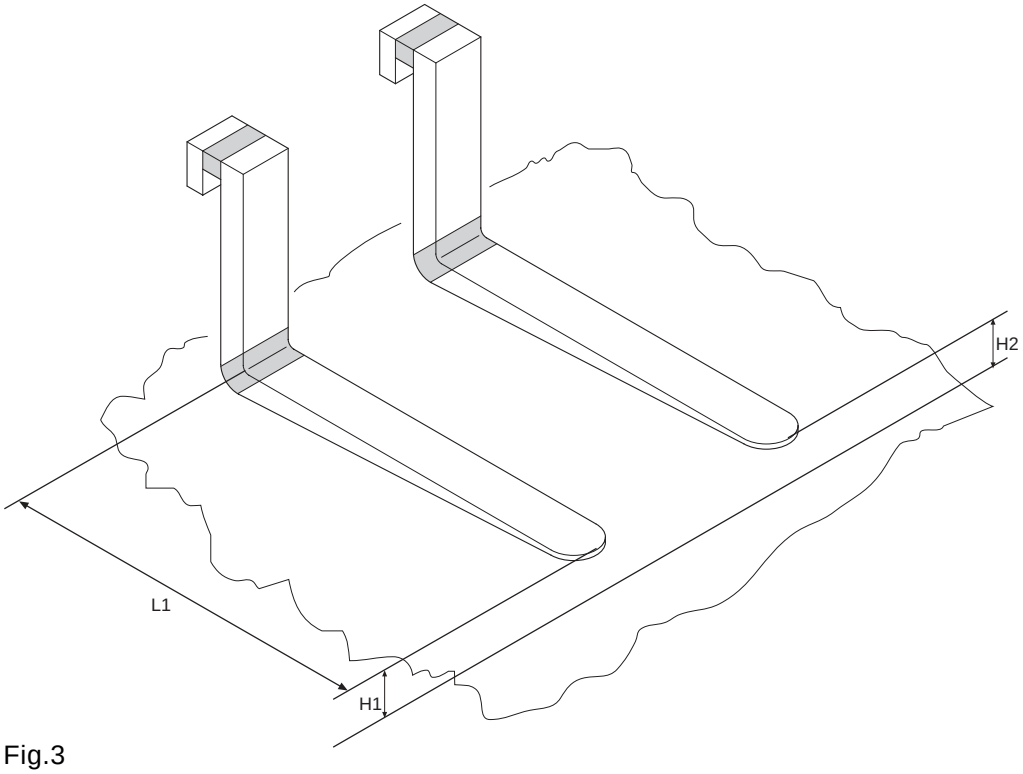


Fig.3

1971

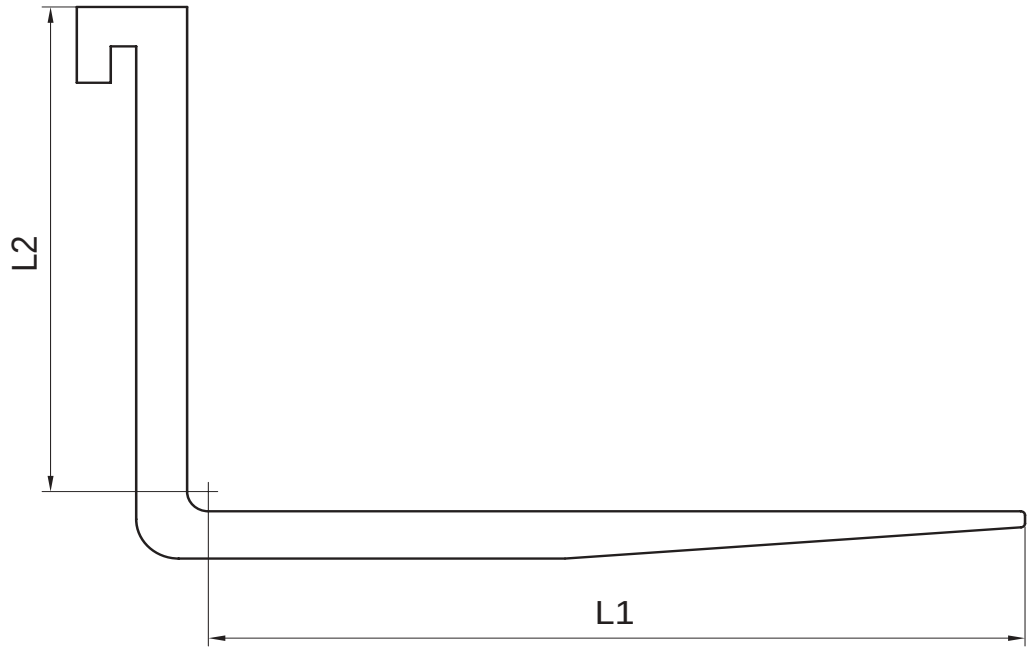
Function:
Permits checking whether the two forks have undergone a different degree of inclination.
Procedure:
Position the truck on a flat surface with the mast at right angles to the ground.
Measure length L1 and heights H1 and H2 shown in fig.3 and then check for the following relation:

$$H1 \neq H2 \leq 3\%\ L1$$

In practice, the difference between the heights H1 and H2 must be below or the same as 3% of length L1.

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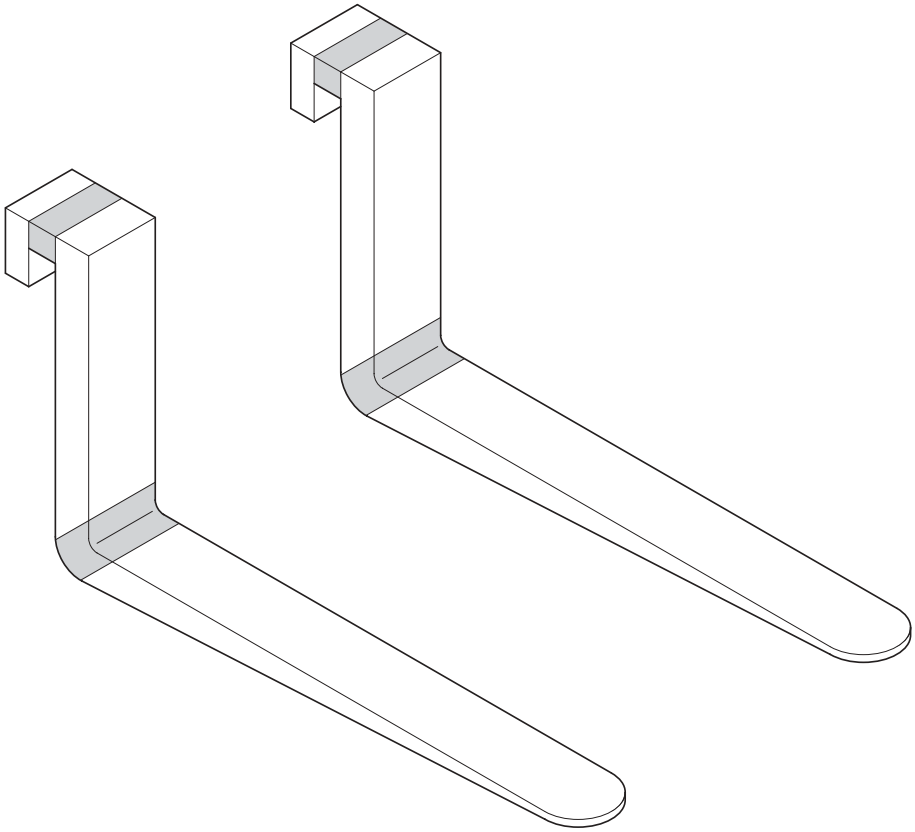
4. Fork straightness check:



Function:
Permits checking the straightness of the fork.
Procedure
Rest a calibrated control bar on the surfaces of the fork indicated in fig.4 and make sure this rests perfectly on the entire surface. Otherwise make sure that the maximum distance between the fork and the bar is not above 0.5% of the surface length.

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5. Recommended non-destructive checks:



1973

Perform the non-destructive checks in the areas shown in fig.5.
Types of recommended non-destructive controls:

- Penetrating liquids
- Magnetoscope
- Ultrasounds

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NOTE

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11.1 HYDRAULIC SYSTEM



Safety precautions
The maintenance and inspection operations indicated in this manual must be performed quite apart from the aims tied to the preservation of functional aspects, as they ensure the safety of the persons in charge of running the machine and prevent any possible material damage. Such operations must be properly recorded.

In case of having to repair the system, technical documentation and major measuring instruments must be available on the spot in order to cut troubleshooting times to a minimum.

If the maintenance personnel do not possess enough hydraulic, electrotechnical and electronic know-how to find and remedy the faults quickly, contact an engineer in possession of such know-how.

If possible, system repair operations should be restricted to the replacement of complete parts.

Hydraulic component repair operations that cannot be fully controlled should be entrusted to the manufacturer, so as to be certain of subsequently having perfectly functional parts in stock.

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11.2 HYDRAULIC FLUID SUMP

Function

The sump contains the fluid required for the machine hydraulic system to work.
The sump is located in one of the machine sides.



Safety precautions

Before starting inspection, make sure no one starts up the machine, unless expressly asked to do so.
The used fluid must be disposed of according to the regulations applicable in the Country where the machine is used.
Never use fluid that has deteriorated due to long or incorrect storage.
Never loosen or unscrew pipes or unions when the hydraulic system is under pressure.



The fluid must be topped up using pumps featuring special filters.
Avoid climbing on the sump in bad weather conditions – rain, snow or ice – as this would increase the risk of falling.

Service

Sight check: Check the integrity, seal and fastness of the sump. Check connection pipes and unions.
Oil level: The oil level can be checked by the special indicator on the sump. If the level is too low, this points to external leaks. After large maintenance jobs, the level of the fluid could drop slowly for a while if the system de-aerates spontaneously.
Fluid drainage: The fluid can be drained off through one of the free cocks under the sump. Collect the used fluid up in a pan. If the sump is emptied, carefully remove all impurities. To do this, do not use wool or man-made fibre cloths or tools that leave threads.
Topping up the fluid: The fluid must be pre-filtered at 10 microns and poured into the sump through the quick coupling on the filter covers. The type of fluid used must be identical to that in the sump (see lubricant table).
Changing the fluid: The fluid must be changed up to maximum level indicated on the sump, with all the hydraulic cylinders in position. The type of fluid used must be identical or equivalent to that in the sump (see lubricant table).

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Testing the fluid: The hydraulic fluid is best tested periodically by specialised laboratories. Chemical tests will show any faults as regards fluid wear and consequent possible malfunctions of the hydraulic system.
A sight check alone will give a rough idea as it will show whether the fluid is more or less clear, any change in colour compared to the new fluid and whether there are any deposits on the bottom of the sump.
Air filter: Check the air filters on the sump and replace the cartridges when these are blocked.
Fluid filters: The re-flow fluid filters on the top part of the sump feature an electrical blockage indicator. The blocked filter sign appears on the monitor in the operator's cab. If the filters are blocked, replace the filter cartridges. In any case, even if the filters do not feature an indicator, the cartridges will have to be replaced fairly often to prevent the by-pass valves openings or the destruction of the blocked cartridges.

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11.3 PUMPS

Function

The job of an hydraulic pump is to convert the mechanical energy (torque, rotation speed) produced by a primary motor into hydraulic energy (delivery, pressure).



Safety precautions

Only skilled personnel are allowed to use measuring instruments. Wrong connections can cause serious injury. Follow all the procedures and safety regulations listed in the specific manuals.

To take pressure readings and check seals, the motor will have to be started. Make sure there is no one standing near moving parts and parts that could become heated.

After taking the pressure reading, the coupling must be carefully closed using the screw cap provided to protect against dirt and possible damage.

Never loosen or unscrew pipes and unions when the hydraulic system is under pressure.

When using compressed air, wear suitable protective devices, especially on eyes.

The maximum pressure of compressed air should be 2 Kg/cm^2.

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Service

During practical operation and therefore during inspections made to ensure correct maintenance, periodically check the following factors:
Viscosity of fluid used: low viscosity affects the components of the entire system. It does not determine the quality of a fluid but does affect that fluid's behaviour at a specific temperature.
Oil level: low oil level slows down the machine operating speed.
Noise
Condition of filters: a blocked filter considerably slows down the flow of oil and reduces pump speed.
Blow-bys and oil leaks.
Outlet valve adjustment.
Checking the rate of flow and pressure using special instruments.
This list could be further extended, but the large number of requirements mentioned shows that not all pumps are able to satisfy these adequately. Substantially, this is the reason why our trucks mount pumps made according to very different manufacturing criteria.
All the installed pumps have one thing in common. They pump fluid according to the positive-displacement principle. This means that during operation, sealed chambers form inside the pump which are defined by construction parts, where the liquid is conveyed from inlet (suction) to outlet (delivery).

Considerations

The gaskets can be replaced on virtually all the pumps. For most of the gear pumps, general overhauling is not an economical proposition, especially when the pump body itself houses rotating parts.
In case of, normally sliding, bearing faults, or problems caused by the entry of foreign bodies, the pump should be considered broken and be replaced.

SMT.0476.E00

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11.4 MOTORS

Function

The hydraulic motors convert hydraulic energy into mechanical energy. Like the pumps, the motors also come in a broad range of shapes and manufacturing specifications and consequently, in principle, the checklist shown for the pumps should be referred to.

Service

To replace these components, the following points should be remembered:
Work in clean environments.
Work with solvents and blow clean air onto all parts (except the gaskets) before re-assembly.
Take care not to damage the gaskets.
Do not dent the worked surfaces.
The components must enter their respective housings without undergoing excessive pressure which is indicative of incorrect assembly positions.
Whenever hand pressure is not enough, use only rubber hammers, never steel hammers.
During assembly, maintain the set direction of rotation.

SMT.0477.E00

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11.5 HYDRAULIC CYLINDERS

Function

The cylinder, like the hydraulic motor, is an actuator, meaning a component that converts hydraulic energy into mechanical energy and represents the interface between the hydraulic circuit and the machine.



Safety precautions

To take pressure readings and check seals, the motor will have to be started. Make sure no one is standing near moving parts or parts that could become heated.
Before starting the inspection, make sure no one starts the machine unless expressly asked to do so.
Never loosen or unscrew pipes and unions with the system under pressure.
Before loosening hydraulic pipes, have a basin on hand to collect the oil.

Service

Sight check: Check the integrity, fastening and seal of the cylinders, unions and pipes. Also check that the oil scraper rings on the rods and head do not show signs of leaking. In some cases, ring fitting requires special tools. Make sure the rods are clean and not damaged by knocks or drops of solder. Do not grease the rod sliding area.
Greasing: Grease the ball joints at the base of the cylinder and on the rod using the special lubricators.

SMT.0475.E00

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11.6 HYDRAULIC ACCUMULATORS

Function

The main function of the hydraulic accumulator is to accumulate liquid under pressure to supply this as required.
It is used in the hydraulic system for various purposes, such as:
Energy accumulation.
Liquid reserve.
Emergency mechanism.
Absorbing knocks and hydraulic oscillations.
Recovery of braking energy.
Maintaining constant pressure.

Safety precautions



The accumulators must only be repaired by skilled personnel.
Under no circumstances must the outer casing be welded, brazed or drilled.
Because the compressed gas in the accumulators is dangerous due to the accumulated energy, the safety precautions indicated in this manual must be strictly followed.

Service

Periodically check the gas precharge pressure, working in a fairly constant environment temperature and with the hydraulic system not under pressure.

SMT.0478.E00

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11.7 FLUID COOLING CIRCUIT

Function

The cooling circuit lowers the temperature of the hydraulic fluid flowing back into the sump.

Safety precautions

To take pressure readings and check seals, the engine will have to be started. Before doing so, make sure there is no one in the vicinity of moving or heated parts.
Never loosen or unscrew pipes or unions with the hydraulic circuit under pressure.
When using compressed air, always use suitable protective devices, especially on the eyes; the compressed air should have a maximum pressure of 2 kg/cm^2.

Service

Sight check: Check the integrity, the fastening and the seal of the radiator, the unions and the pipes.
Cleaning – water side: To obtain maximum performance from the exchanger, the water circuit is best periodically inspected to eliminate any traces of mineral deposits or other impurities that have deposited inside the pipes. This operation can be easily performed by removing only the bottom and swabbing the pipes.
Cleaning – oil side: On this side of the circuit, cleaning must be performed by swilling with solvent to degrease aluminium parts (perchlorethylene). Allow the solvent to flow against the current for about 30 minutes. Afterwards proceed to eliminate residues by swilling with hot water.

SMT.0479.E00

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11.8 DISTRIBUTORS

Function

The distributors and joysticks command and control the machine hydraulic movements.



Safety precautions

Only skilled personnel may use the measuring instruments. A wrong connection could cause serious injuries. Follow all the safety procedures and regulations shown in the specific manuals.
To perform pressure measurements and seal checks, the engine will have to be started. Before doing so, make sure there is no one in the vicinity of moving parts or parts that heat up.
After checking the pressure, the fastenings must be carefully closed again with the special screw cap to protect them against dirt and possible damage.
Do not loosen or unscrew pipes and unions when the hydraulic circuit is under pressure.
For jobs requiring compressed air, use suitable protective devices, especially for the eyes.
Use compressed air at a max pressure of 2 Kg/cm^2.

Service

The distributors and joysticks are built so as to make economical repair virtually impossible when, besides the gaskets and the magnets, the fault also involves the hydraulic part. After replacing the magnets, tuning operations could be required that call for suitable apparatus.

SMT.0480.E00

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12.1 BATTERIES

Function

The batteries supply 24V electrical current to start the diesel engine and for the electrical system. Once the engine has been started, these are supplied by an alternator driven by the engine.

Safety precautions



Before starting work, disengage the battery disconnecting switch.

Danger of short circuits – Do not rest objects or tools on the batteries.



Fire hazard – Do not smoke or use flames while checking the battery electrolyte because the acid vapours are inflammable.



Electrolyte is dangerous for the skin and eyes. Always wear protective clothing when carrying out inspections and maintenance (gloves, eyewear, helmet, etc..).

Used batteries must be disposed of in accordance with the applicable laws of the country where the machine is installed.

Service

Sight check: Make sure the batteries are correctly fastened. They must be clean and dry. In the event of humidity, check the cause and eliminate.

Battery charge check: The condition of the battery charge can be seen on the battery through a special spy cap.

Electrolyte level check: Check the level of the electrolyte in the single battery cells. Loosen the covers and make sure the elements are covered with liquid. If the level is too low, top up with distilled water.

Cleaning: The battery terminals must be cleaned and tightened properly. Protect the connections with vaseline.

SMT.0482.E00

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12.2 LIMIT SWITCH

Function

The limit switches detect the position of a number of functional parts of the machine.

Safety precautions

Before starting the inspection, make sure no one can start the machine, unless expressly asked to do so.
The limit switches are safety devices. If these are not in good operating condition, this could be hazardous for people and the machine.

Service

Efficiency check: The functional control of the limit switches and relevant indicators must be performed daily by the operator. Any problems must be immediately notified to the maintenance personnel.
Fastening check: Check the integrity and fastening of the limit switches and relevant connections. If necessary, clean the limit switches using suitable means.

SMT.0483.E00

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12.3 ELECTRICAL CONTROLS

Function

The efficiency of the electrical controls, such as the control keyboard, joysticks and joystick switches, is crucial for machine operation.

Safety precautions



Before starting inspection, it is best to make sure no one can start up the machine, unless an express request is made in this sense.

Service

Efficiency check: The functional check of the electrical controls and relevant indicators must be done daily by the operator. Any malfunctions must be immediately notified to the maintenance personnel.
Fastening check: Check the integrity and fastening of the controls and relevant connections: cables, connectors, terminals.
Checking and cleaning: Check and clean switches and electric boards.

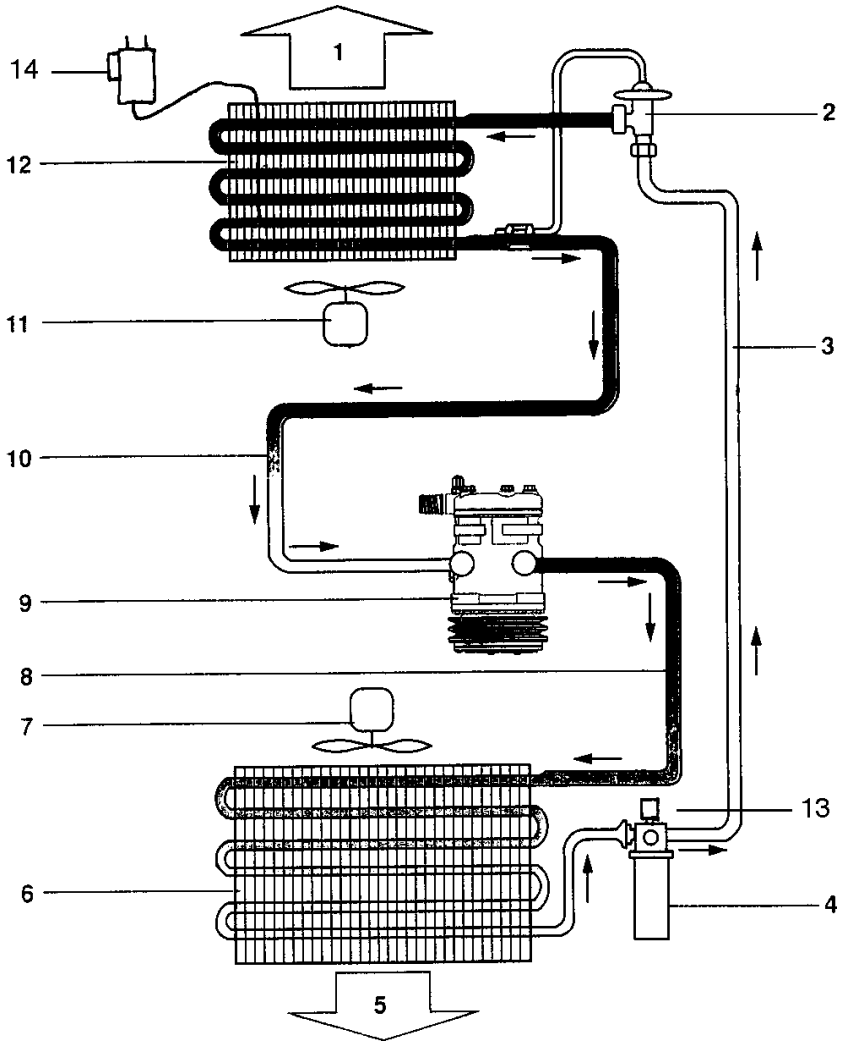
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NOTES

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13.1 REFRIGERATION CYCLE DIAGRAM



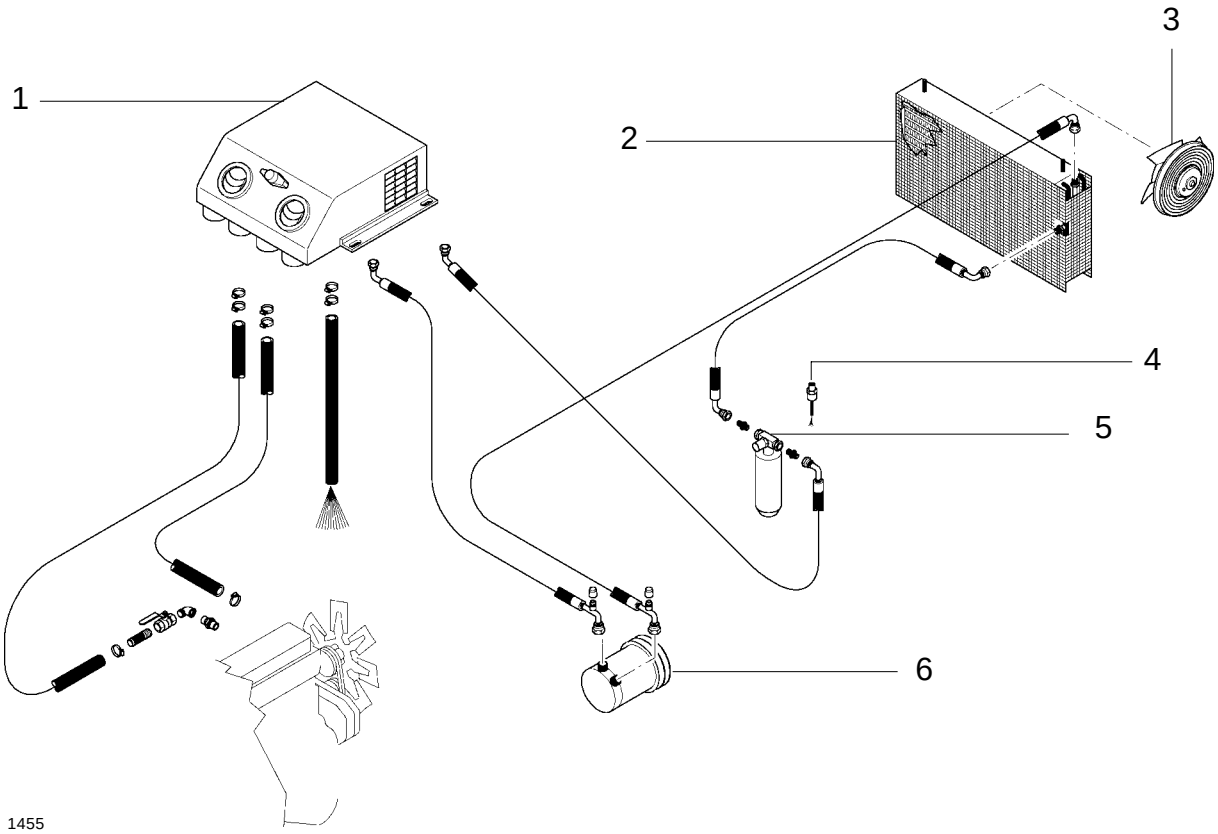
1458

1 - Cold Air
2 - Expansion Valve
3 - Liquid Line
4 - Dehydrator unit Filter
5 - Warm Air
6 - Condenser
7 - Condenser Fan
8 - High Pressure Line
9 - Compressor
10 - Low Pressure Line
11 - Evaporator Fan
12 - Evaporator
13 - Pressure Switch Trinary
14 - Thermostat

SMT.0505.E00

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13.2 HEATING SYSTEM - CONDITIONER

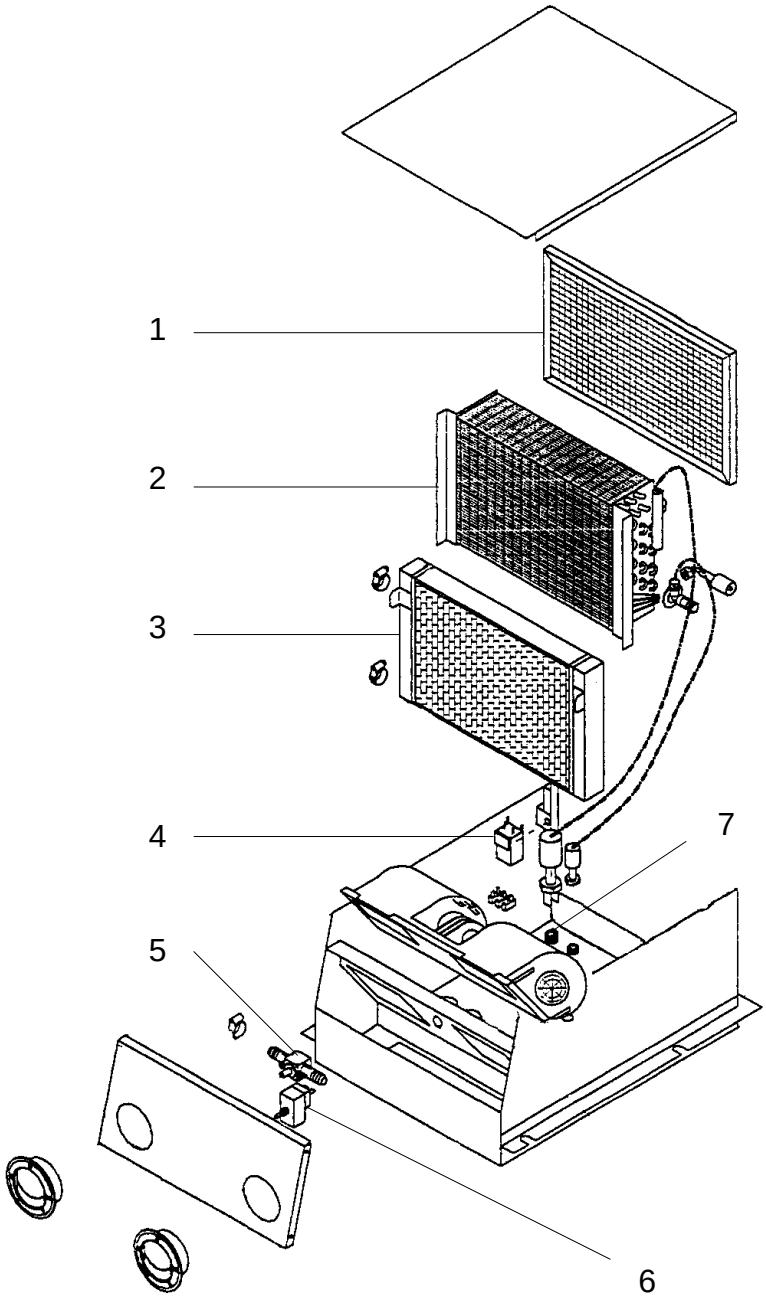


1 - Evaporator
2 - Condenser
3 - Fan
4 - Pressure Switch
5 - Filter
6 - Compressor

SMT.0506.E00

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13.3 HEATING EVAPORATOR UNIT



1459

1- Air Filter
2 - Evaporator
3 - Heat Exchanger
4 - Conditioner Thermostat
5 - Valve
6 - Temperature Thermostat
7 - Antishock Connection

SMT.0507.E00

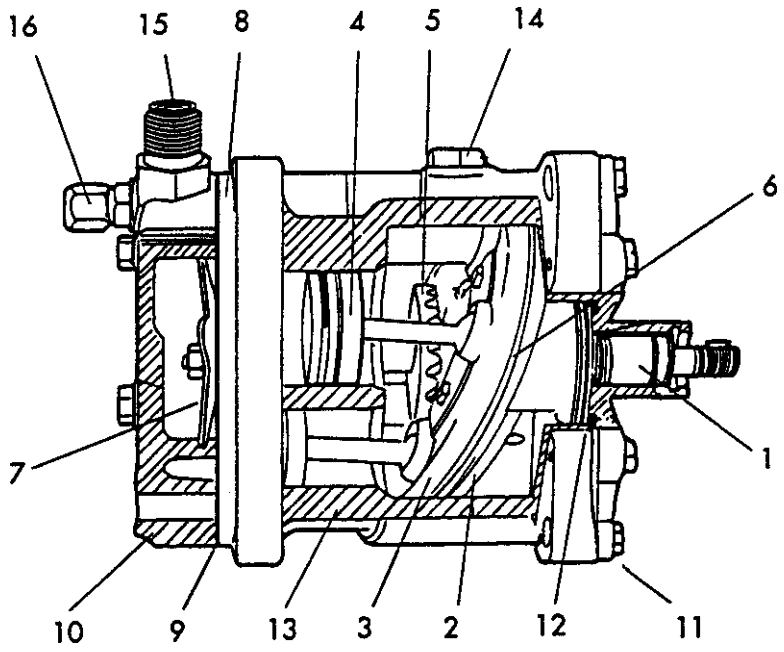
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D. COMPRESSOR

SMT.0187.E00

Check the transmission belt periodically. If recharging the A/C system, check the compressor lubricant and, if necessary, add the missing quantity. The operation must be carried out by skilled personnel.

SMT.0187.E00



1447

1 - Shaft
2 - Rotor
3 - Flange
4 - Piston with seal ring
5 - Gear
6 - Roller Bearing
7 - Inlet / Outlet Valve
8 - Plate
9 - Cylinder Head Gasket
10 - Cylinder Head
11 - Front Cover with Hub
12 - Gasket
13 - Compressor Body
14 - Oil inlet / Outlet cap
15 - Union
16 - Valve

SMT.0508.E00

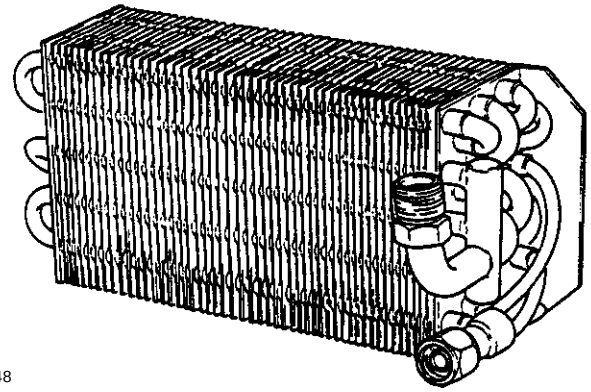
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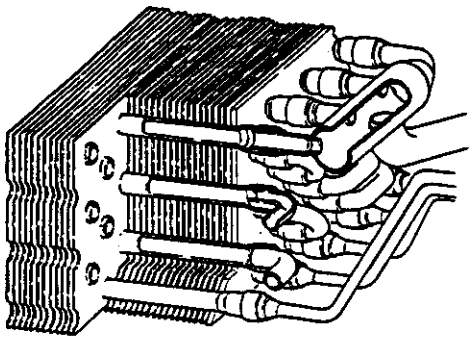
E. EVAPORATOR

SMT.0188.E00

The fan works affectively only if the grills of the evaporator are perfectly clean. Dust, dirty and foreign objects must be removed. Inspections every 250 working hours are requested. Remove and clean the filter by means of compressed air, unless its replacement is necessary. Use compressed air to clean the elements of the evaporator.

SMT.0188.E00





1448

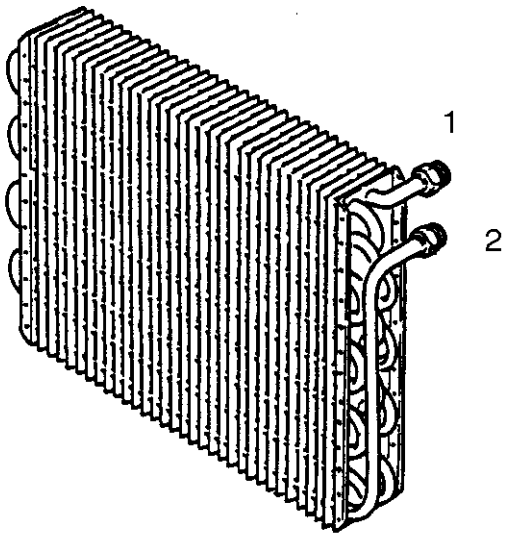
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F. CONDENSER

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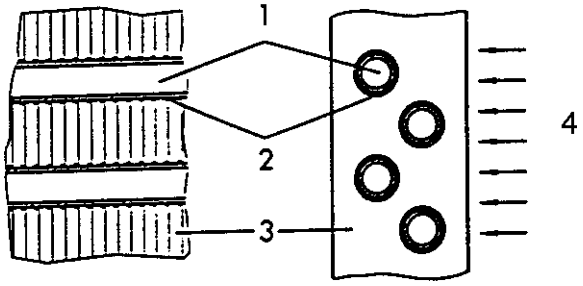
It is necessary to keep the condenser free from dust, dirtand insects clean it periodically (every 250 hours or less, if working in a dusty place). Any object causing a reduction of air flow through the condenser can damage the fans and other components of the A/C system (pipes, compres-sor); clean outside condenser with compressed air and adequate washing liquids.

SMT.0189.E00



1 - Inlet Connector
2 - Outlet Connector

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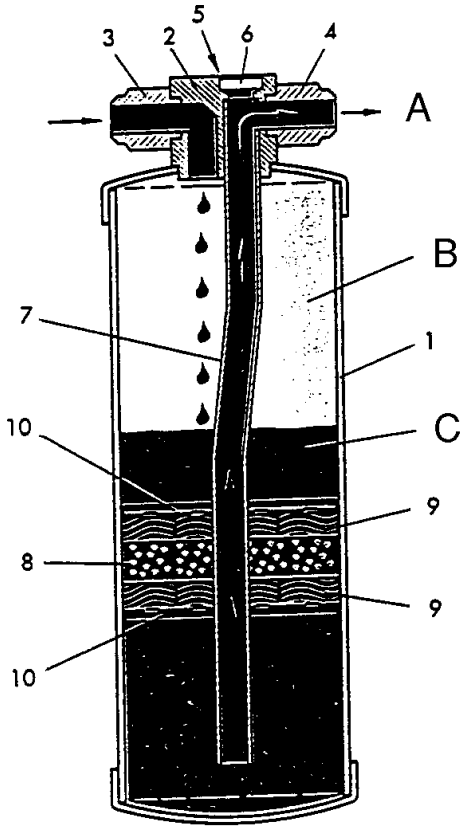
1449

1 - Pipe
2 - Collar
3 - Fin
4 - Air Flow

SMT.0510.E00

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13.7 FILTER



1450

1 - Body
2 - Connector block
3 - Inlet connector
4 - Outlet connector
5 - Service valve
6 - Indicator glass
7 - Suction pipe
8 - Hygroscopic material
9 - Microfilter
10 - Perforated shield

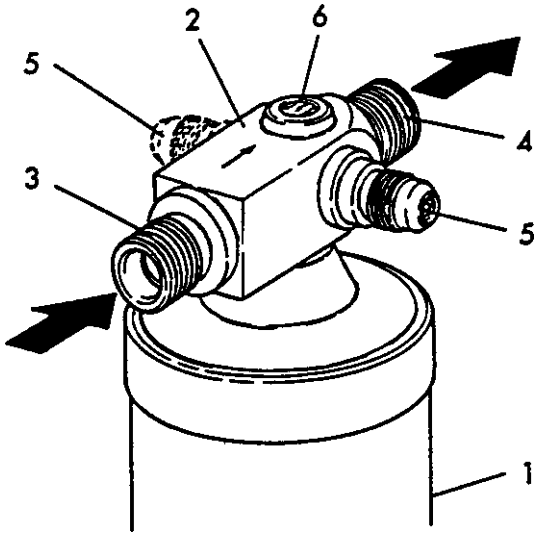
A - COOLANT
B - STEAM
C - LIQUID

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SMT.0511.E00

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13.8 FILTER HEAD



1456

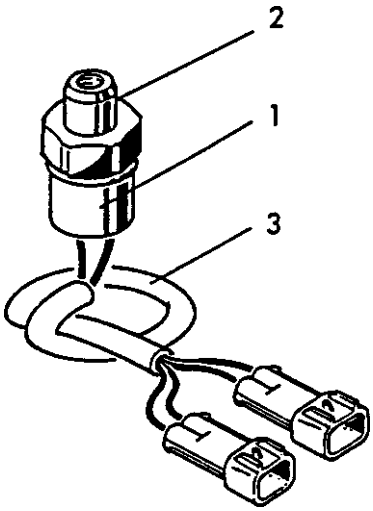
1 - Body
2 - Connector block
3 - Inlet connector
4 - Outlet connector
5 - Service valve
6 - Indicator glass

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13.9 PRESSURE SWITCH TRINARY

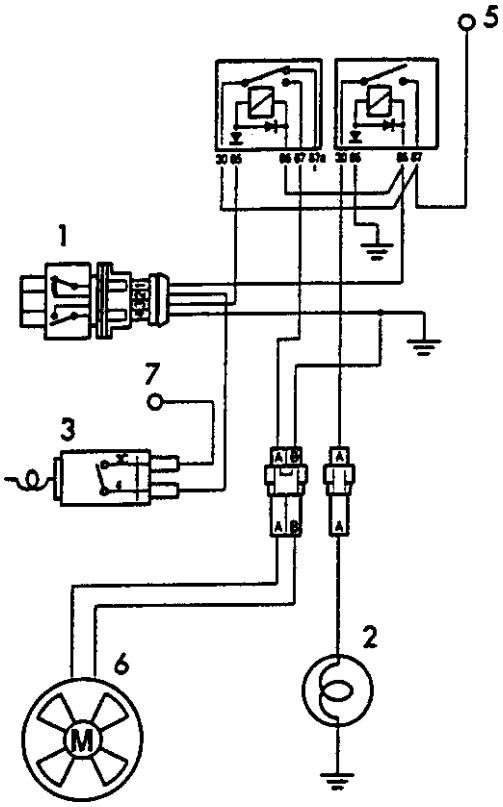
Refer to this electrical schematics to see how the pressure switch “TRINARY” is linked to the electrical system. SMT.0190.E00



1451

1 - Body
2 - Joint
3 - Wiring

SMT.0513.E00



1452

1 - Pressure switch “Trinary”
2 - Electromagnetic clutch
3 - Thermostat
4 - Ralays
5 - Battery
6 - Condenser fan
7 - From A/C button

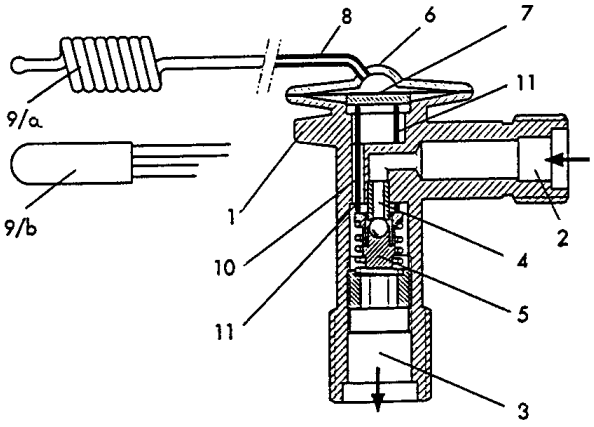
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13.10 EXPANSION VALVE

NB: Removing the air filter, you can see the expansion valve.

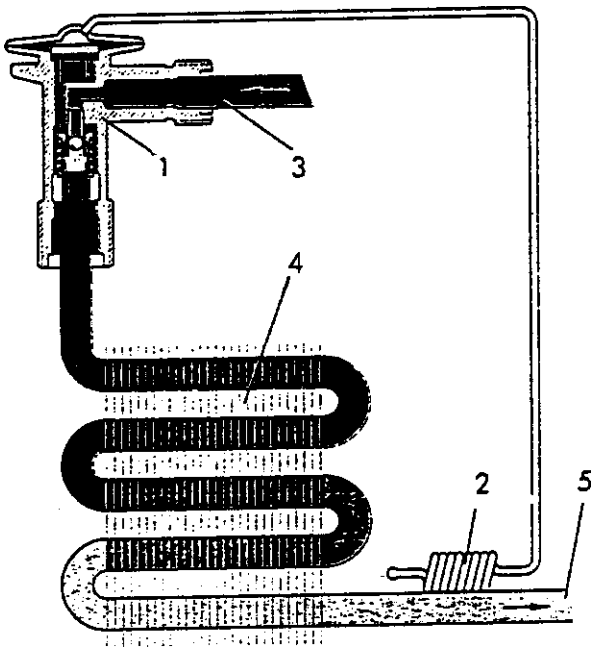
SMT.0191.E00



1454

1 - Body valve
2 - Inlet joint
3 - Outlet joint
4 - Gauger hose
5 - Adjustment valve
6 - Capsule
7 - Diaphragm
8 - Capillary pipe
9/a - Thermostatic Spiral sensor
9/b - Thermostatic sensor box
10 - Internal equalizer channel
11 - Connection pin diaphragm valve

SMT.0516.E00



1457

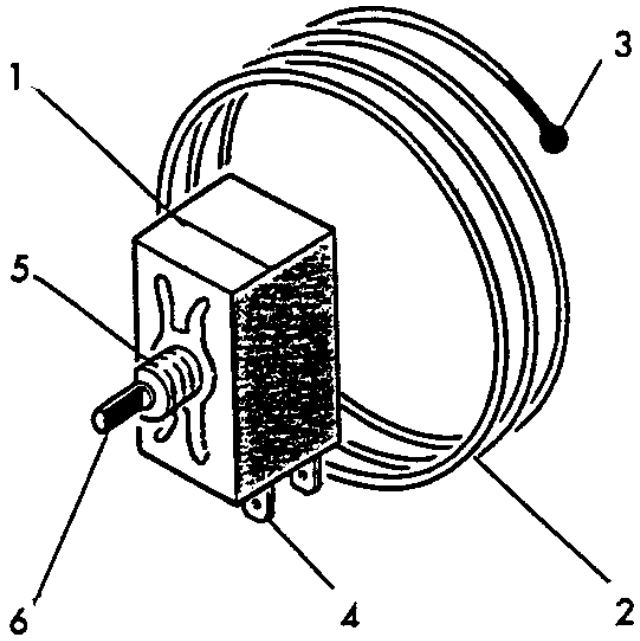
1 - Expansion valve
2 - Spiral sensor
3 - Pipe from condenser
4 - Evaporator
5 - Pipe to compressor

SMT.0517.E00

CONNECTING FLEXIBLE PIPES: it is necessary to avoid the flexible pipes coming in contact with lubricants, solvents or liquids which could cause coolant leakage. Avoid friction and contact with mechanical parts. SMT.0192.E00

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13.11 THERMOSTAT



1 - Body
2 - Capillary pipe
3 - Sensor
4 - Electric connection
5 - Block thread
6 - Adjusting pin spring

SMT.0518.E00

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13.12 TEST CHECK

SMT.0193.E00

To control the performance of A/C system you must operate as follow:

1. Start the engine at max 2.000 - 2.500 RPM
2. Adjust the thermostat at max position
3. Open the cab doors
4. Start fan at max speed for ten minutes
5. Close the cab doors and windows
6. Check the high AP (pressure gauge connected to the discharge line) and low BP (pressure gauge connected to suction line) pressure
7. check the temperature inside the cab

See the Tab. below for the pressure that indicate a good efficency of A/C system.

SMT.0193.E00

Ambient temperature (° C)	Pressure gauge AP (Kg/cm^2)		Pressure gauge BP (Kg/cm^2)	
	min	max	min	max
15.5	9.5	13.0	0.5	1
21.0	12	17.5	0.5	1
26.5	14	20.5	0.5	1
32.0	16	24.0	0.5	1
38.0	18.5	25.5	0.5	2
43.0	22	28.0	0.5	2.3

1464

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13.13 DIAGNOSIS OF A/C SYSTEM FAILURE

SMT.0194.E00

Before any functional test you must:

1 - Adjust belt tension
2 - Check hoses and fittings leakages
3 - Check condenser
4 - Check all the air ducts
5 - Check evaporator
6 - Check fans
7 - Check air filter
8 - Check drier coolant filter (outside hoarfrosting indicated an inside clogging)

For the above analysis particular competences are not necessary.

For deepen analysis specific instruments and skilled personnel are necessary.

SMT.0194.E00

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SYSTEM MALFUNCTION
The system doesn't cool

Symptom	Probable cause/s	Remedy
A - The compressor fails to prime	1 - Clutch winding not connected or burned out.	- Check power connections.
	2 - Lack of coolant in system.	- Recharge system and make sure there are no leaks.
	3 - Faulty pressure switch.	- Unscrew the pressure switch on the coolant filter and replace.
	4 - Thermostat electrical contact deteriorated or sensitive element faulty.	- Replace the thermostat, being careful when positioning the sensitive element in the evaporating battery.
	5 - Electrical contact of fixed-setting anti-frost thermostat faulty.	- Make a jumper between the wires of the anti-frost thermostat positioned in the rear of the visible unit, removing the air filter.
	6 - No signal from the dashboard control unit.	- Check power connections.
B - Formation of frost outside the coolant filter and expansion valve **SMT.0015D.E00**	1 - Filter and expansion valve blocked. SMT.0015C.E00	- Replace the components. SMT.0015R.E00

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SYSTEM MALFUNCTION
The system undercool

Symptom	Probable cause/s	Remedy
A - The system does not cool down enough	1 - Not enough coolant. The fan turns slowly. 2 - Evaporator fins clogged. 3 - Not enough air circulation through conditioner.	- Check any leaks. If necessary, repair and recharge the system. - Check the condenser and check the fans. - Clean the evaporator with compressed air.
B - Low air flow at evaporator outlet	1 - The fan turns too sloowly. 2 - The connection pipes of the outlets are blocked or disconnected.	- Remove the fan and overhaul or, if necessary, replace. - Restore connections between connector pipes.
C - The system does not cool down enough and the electro-clutch of the compressor frequently engages and disengages	1 - The thermostat is faulty or not correctly set.. 2 - The fans on the condenser do not start up. 3 - The fans on the condenser do not start up.	- Replace the thermostat or reset. - Check the fuse and relays. - Replace the faulty pressure switch.

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SYSTEM MALFUNCTION
The system undercool

Symptom	Probable cause/s	Remedy
D - The system cools down intermittently due to internal frosting SMT.0016D.E00	1 - Thermostat set too low. 2 - Too much humidity in the cooling circuit. 3 - Thermostatic expansion valve block due to dirt or humidity. SMT.0016C.E00	- Correctly set the thermostat and, if necessary, replace. - Discharge the system and remove the humidity. Recharge the system with new coolant. - Discharge the system and wash the pipes. Replace the coolant filter and recharge the system. SMT.0016R.E00

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14.1 PAINT

Function

All the painted surfaces should be periodically checked for any local damage. The damaged areas must be immediately restored in accordance with the touch-up cycle.

Safety warnings

- Before inspecting the machine, it is important to ensure no one starts this up, unless expressly requested to do so.
- When using paints or solvents, always follow the instructions on the containers.
- Paints or solvents must be disposed of in accordance with the laws applicable in the country of operation.

Service

The machine is protected against corrosion as follows:

Metal structures	Paint
Steps, gangways and walkways	Hot galvanised
Machine tooled mechanical parts	Grease or Wax
Commercial components	Painted to manufacturer's standard
Inner structures	Not treated, only sealed
Cabs and hoods	Cataphoresis treatment

Paint cycle for machine body colour RAL 2002

- Surface sanding.
- Degreasing with high-pressure cleaners, mixing hot water with 1-2% "TURCO 6305H" detergent or equivalent.
- First coat of rust preventer.
- Intermediate coat of epoxy-vinyl primer, thickness between 60-70 microns.
- Final coat, one hour after rust preventer flash period or not later than 36/48 hours, of gloss polyurethane enamel applied with cross strokes. The thickness must be between 70 – 80 microns.

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Paint cycle for lifting assembly (mast), arm, spreader in black SS0580 rustproof enamel FS/ZN

- Surface sanding.
- Degreasing with high-pressure cleaners, mixing hot water with 1-2% “TURCO 6305H” detergent or equivalent.
- First coat of rust preventer.
- Intermediate coat of epoxy-vinyl primer, thickness between 40-50 microns.
- Final coat, one hour after rust preventer flash period or not later than 36/48 hours, of FS/ZN BLACK SS0580 rustproof enamel. The thickness must be between 80 – 90 microns.
- The total average thickness of the paint cycle is between 120 – 140 microns.

Touch-up cycle

- When the surface is degreased and dry, remove all scaling and oxidation until the clean metal becomes visible. Use sanding discs grain 24” and an appropriate honing machine. Whenever necessary, use mechanical brushes.
- Mix the filler and the catalyser in due parts, as shown on the product pack.
- Apply the metal filler to the recesses using a spatula or suitable doser extruder.
- After the part has dried, proceed to sand the filled surfaces using a sanding disc.
- After sanding, blow off any remaining dust using compressed air.
- Apply the rust preventer, followed by the paint cycle.

SMT.0490.E00

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15.1 TROUBLESHOOTING

FUNCTION

The troubleshooting procedure is a guide for the most common cases of machine malfunction.

To reduce machine stoppages to a minimum, the nature and location of the fault must be determined as quickly as possible. In many cases, mechanical faults can be determined visually .



SAFETY PRECAUTIONS

Warning notices: always read and follow the general safety regulations shown in this manual and the warning notices on the machine itself.
Protections: persons charged with inspecting, servicing and repairing the machine must wear protective clothing, accident-prevention footwear, eyewear, gloves and a helmet. Before proceeding, it is also necessary to inform the operators, by means of special warning notices, that the machine is not operative as it is undergoing maintenance.
Hydraulic pipes: before disconnecting the hydraulic pipes, lower the spreader so the hydraulic circuit no longer has to bear any weight.
SMT.0425.E00

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15.2 FAULT DIAGNOSIS

PROBLEM	PROBABLE FAULT	REMEDY
DIESEL ENGINE		
The engine fails to start[1]	Air in the fuel supply circuit[1]	Bleeder line. See motor instruction manual[1]
	Generator or starting motor operation fault[1]	Make sure the batteries are charged and check the connections between battery body and starter motor[1]
The starter motor fails to start[2]	Gear lever engaged[2]	Place the gear lever in neutral[2]
The engine stops[3]	Low fuel level[3]	Fill[3]
	Dirty fuel pre-filter and filter[3]	Replace filter and clean[3]
	Water in fuel[3]	Clean the fuel supply circuit[3]
	Injection pump faulty[3]	Repair or replace the pump[3]

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PROBLEM	PROBABLE FAULT	REMEDY
Low engine power (exhaust in order)$_4$	Accelerator cable too slack$_4$	Regulate the accelerator cable$_4$
	Injection pump regulator faulty$_4$	Repair or replace$_4$
	The turbosupercharger is not working properly$_4$	Repair or replace$_4$
Low engine power (exhaust not in order)$_5$	Air filter dirty$_5$	Clean or replace the air filter$_5$
	Injection pump regulator faulty$_5$	Repair or replace$_5$
	The turbosupercharger is not working properly$_5$	Repair or replace$_5$

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PROBLEM	PROBABLE FAULT	REMEDY
Turbosupercharger fault$_{6}$ SMT.0001D.E00	Loss of lubrication causing seizure of rollers and corresponding pins$_{6}$	Ensure correct lubrication, make sure the bleeder line is open$_{6}$
	Penetration of foreign bodies, due to bad cleaning or filtering capacity of the air filter. The presence of foreign bodies could damage the rotor and consequently also the motor.$_{6}$	Check the condition of the air filter$_{6}$
	The lubricating oil in bad condition, could cause premature wear and seizures.$_{6}$ SMT.0001C.E00	Replace the oil at regular intervals$_{6}$ SMT.0001R.E00

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PROBLEM	PROBABLE FAULT	REMEDY
HYDRAULIC MOTORS		
The motor fails to turn over or does not develop correct speed and/or torque.[1]	Kinematic control motion blocked due to misalignment.[1]	Carefully realign.[1]
	Maximum pressure valve stuck.[1]	Remove the impurities from the pressure adjustment plunger ball.[1]
	The motor plate is not correctly angled (in the case of adjustable motors).[1]	Adjust at pump corner.[1]
	Maximum pressure valve setting too low.[1]	Check system pressure and regulate valve.[1]
	Pump pressure or flow rate are too low.[1]	Check pump delivery and motor pressure and speed.[1]
	Kinematic motor motion mechanically restricted.[1]	Remove the obstacle.[1]
External oil leaks from motor.[2]	Leaking gaskets.[2]	Replace.[2]

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PROBLEM	PROBABLE FAULT	REMEDY
There is no flow rate or motors fail to turn when correctly controlled.	No oil in tank.	Fill with oil.
	Wrong direction of feed motor rotation.	Remedy.
	Broken joint or coupling.	Repair or replace.
	Broken joint key.	Replace.
	Discharge (or maximum pressure) valve open.	Remedy.
	Pressure duct blocked.	Free the duct.
	Pump problems.	Check the pump.
	Bad actuator operation.	Check the actuator.
	Supply pipe crushed or disconnected.	Remedy.
	Bad operation of actuator direction adjustment.	Check the direction valve.

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PROBLEM	PROBABLE FAULT	REMEDY
No pressure or pressure too low. SMT.0002D.I00	No oil in tank.	Fill with oil.
	Pressure gauge broken or faulty.	Replace.
	Discharge valve or maximum pressure valve fully open.	Correct.
	Excessive leaks.	Determine cause and eliminate.
	Pressure limiter too low. SMT.0002C.E00	Regulate. SMT.0001R.E00

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PROBLEM	PROBABLE FAULT	REMEDY
PUMPS		
Too much pump noise. 1	Pump-motor unit not aligned. 1	Carefully realign. 1
	Oil level too low. 1	Fill tank. 1
	Oil type not suitable. 1	Use a good clean hydraulic fluid, with required viscosity. 1
	Air in the intake duct, drainage duct, shaft gaskets. 1	Pour the hydraulic fluid on the unions and around the shaft and check whether the operating noise changes; tighten or replace. 1
	Tanks not aerated. 1	Allow the tank to breath so the oil level can vary if necessary. 1
	Limited flow in the intake duct. 1	Make sure the inlet is not blocked by rags or other foreign bodies. 1
	Pressure seal worn. 1	Replace: the phenomenon is due to hot, fluid, dirty or lack of oil. 1
	Filter blocked. 1	Clean. 1

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PROBLEM	PROBABLE FAULT	REMEDY
	Parts worn or broken.[1]	Replace.[1]
	Tank breather pipe blocked.[1]	Clean or replace the breather pipe.[1]
Excessive operating temperature.[2]	Operation at higher pressure than contemplated.[2]	Reduce pressure to correct setting.[2]
	Excessive sliding.[2]	Check the viscosity of the fluid.[2]
	Oil level in tank too low.[2]	Fill the tank.[2]
Oil seal leaks.[3]	Gaskets incorrectly fitted.[3]	Change the installation.[3]
	Pressure in pump casing.[3]	Check to see whether the internal drainage is blocked; check to see whether there is excessive counter-pressure in the drainages.[3]
	Misalignment of couplings.[3]	Realign pump and motor shafts.[3]
	Gaskets damaged; shaft seals damaged or stretched.[3]	Replace the sets of gaskets; carefully fit the gaskets on the splines to prevent dents.[3]

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PROBLEM	PROBABLE FAULT	REMEDY
Bearing failure.[4]	Unsuitable fluid.[4]	Use the recommended type of fluid.[4]
	Metal residues or foreign substances in bearings.[4]	Make sure the oil is clean.[4]
	Misalignment of couplings.[4]	Realign the pump and the motor.[4]
Pump fails to deliver oil.[5]	Oil level in tank too low.[5]	Always keep the level of the oil in the tank well above the intake.[5]
	Air in intake.[5]	Apply a good sealant to the pipes that is insoluble in oil and tighten the unions.[5]
	Intake filter or duct blocked.[5]	Remedy.[5]
	Excessive oil viscosity.[5]	Use more fluid oil for a specific use and temperature.[5]
	Pump shaft, kinematic motion or rotor damaged.[5]	Replace the damaged parts; eliminate impurities, foreign substances or other probable causes of failure.[5]
	Spline cut.[5]	Replace.[5]
	Pump cover too large.[5]	Tighten the bolts on the lid.[5]

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PROBLEM	PROBABLE FAULT	REMEDY
Pump without pressure.6 SMT.0003D.E00	Pump blocked.6	Remove the pump and check whether there is any trapped dirt or over-viscous oil.6
	Pump speed too low.6	Check minimum speed.6
	Oil offtake to tank.6	Check the pressure in the circuit. Check the open-centre valves or other valves that drain into the tank.6
	Faulty pressure gauge or pressure gauge duct closed.6 SMT.0003C.E00	Remedy; eliminate the impurities blocking the pressure gauge outlet.6 SMT.0003R.E00

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PROBLEM	PROBABLE FAULT	REMEDY
MAXIMUM PRESSURE VALVE		
No pressure.[1]	**Valve blocked during opening.**[1]	Free the ball or box.[1]
		See pump table.[1]
	Pump without delivery.[1]	Adjust or replace.[1]
	Valve badly set or spring broken.[1]	
Pressure not adjustable.[2]		Free the box.[2]
	Box blocked during opening.[2]	Make sure the other max pressure valve is set at same pressure.[2]
Pressure too high.[3]	Setting lower than another maximum pressure valve.[2]	Free the box.[3]
		Check the valve.[3]
	Box blocked during closening.[3]	
Noisy or irregularly performing valve.[4] SMT.0004D.E00		Clean the valve.[4]
	Internal drainage line blocked.[3]	Eliminate origin.[4] SMT.0004R.E00
	Valve dirty.[4]	
	Air in system.[4] SMT.0004C.E00	

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PROBLEM	PROBABLE FAULT	REMEDY
CHECK VALVE		
Stops flow.$_{1}$	Parts broken.$_{1}$	Dismantle and check.$_{1}$
	Pump without delivery.$_{1}$	See pump table.$_{1}$
Does not maintain pressure.$_{2}$ SMT.0005D.E00	Damaged housing.$_{2}$ SMT.0005C.E00	Replace housing and eliminate cause of damage.$_{2}$ SMT.0005R.E00
DIRECTION ADJUSTMENT VALVES		
The valve box fails to move.$_{1}$	Solenoids not operating.$_{1}$	Check the power supply or whether the solenoid is burnt out.$_{1}$
	Absence of piloting pressure.$_{1}$	Check source of pilot system pressure.$_{1}$
	Drainage piloting blocked.$_{1}$	Check caps, connectors and ducts.$_{1}$
	Impurities.$_{1}$	Remove, clean and wash.$_{1}$
	Bad re-assembly after overhauling.$_{1}$	Check drawing for correct assembly.$_{1}$

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PROBLEM	PROBABLE FAULT	REMEDY
	Working residues.[1]	Remove the box, check this and the valve body.[1]
	Fine contaminants.[1]	Remove the box and clean with sandpaper.[1]
Irregular box response.[2]	Excessive oil viscosity at startup.[2]	Replace the oil and run the pump to heat the oil.[2]
	Incorrect solenoid operation.[2]	Check the power voltage and frequency.[2]
	Contaminants in system.[2] SMT.0006C.E00	Discharge and wash the system.[2] SMT.0006R.E00
PRESSURE ADJUSTMENT VALVE		
Pressure too high.[1]	Box stuck.[1]	Clean the valve.[1]
	Pressure gauge broken or imprecise.[1]	Check the pressure gauge.[1]
Pressure too low.[2] SMT.0007D.E00	Pump pressure too low.[2]	Check the outlet.[2]
	Air release adjustment too low.[2] SMT.0007C.E00	Regulate air outlet flow.[2] SMT.0007R.E00

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PROBLEM	PROBABLE FAULT	REMEDY
FILTERS		
Dirty oil.[1] SMT.0008D.E00	Unit blocked.[1]	Replace the part.[1]
	Unsuitable degree of filtration.[1]	Check the diameter of the particles and switch to an adequate filtering degree.[1]
	Wrong replacements.[1]	Follow the maintenance instructions.[1] SMT.0008R.E00
PRESSURE GAUGES		
Wrong indication.[1] SMT.0009D.E00	Faulty pressure gauge.[1]	Check and replace: the small broken pipe, the broken kinematic mechanism, the small pipe spring, the broken or deformed needle, the control shaft of the pressure gauge.[1]
	Imprecise pressure gauge.[1] SMT.0009C.E00	Check the pressure gauge against a sample instrument.[1] SMT.0009R.E00

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PROBLEM	PROBABLE FAULT	REMEDY
GEARBOX AND TORQUE CONVERTER		
Gear selection clutch low pressure$_1$	Low oil level$_1$	Top up$_1$
	Pressure adjustment valve coupling blocked in open position$_1$	Clean housing and fuse$_1$
	Faulty pump$_1$	Replace pump$_1$
	Faulty transmission$_1$	Close line to power distributor. If the pressure returns to normal, the problem is in the distributor$_1$
	Piston or shaft grommets worn or broken$_1$	Replace the grommets$_1$
	Clutch piston bleed valve blocked$_1$	Clean the bleed valve$_1$
Gear selection clutch high pressure$_2$	Low pressure valve blocked in closed position$_2$	Clean and check valve to make sure it is not worn or dirty. Replace if necessary$_2$

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PROBLEM	PROBABLE FAULT	REMEDY
Converter pump low performance[3]	Low oil level[3]	Top up[3]
	Suction filter blocked[3]	Clean[3]
	Air in pump intake pipes[3]	Tighten unions or, if necessary, replace[3]
	Faulty pump[3]	Replace pump[3]
Overheating[4]	Oil grommets worn[4]	Reposition converter[4]
	Worn oil pump[4]	Replace[4]
	Low oil pressure[4]	Top up[4]
	Air in intake line[4]	Check and tighten unions[4]
	Oil heat exchangers or pipes blocked[4]	Clean and check the heat exchanger and pipes[4]
	Dirty radiator fins[4]	Clean the fins[4]
Noisy converter[5]	Worn gears[5]	Replace[5]

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PROBLEM	PROBABLE FAULT	REMEDY
	Worn oil pump[5]	Replace[5]
	Turbine bearings faulty or worn[5]	Completely dismantle the unit to find the worn bearing[5]
Power drop[6]	Diesel engine fault[6]	Check the diesel engine[6]
	Low revs with converter stalled[6]	Regulate the diesel engine and check the rev counter[6]
	Overheating[6]	See Transmission Manual[6]
	Converter pressure[6]	See Transmission Manual[6]
High pressure exiting from converter with engine at full speed and gear in neutral[7] Low pressure exiting from converter[8]	Heat exchanger or oil pipe blocked[7]	Check the heat exchanger and pipes[7]
	Oil too viscose[7]	Use recommended type of oil[7]
	Cold oil[7]	When the converter heats, the pressure must drop[7]

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PROBLEM	PROBABLE FAULT	REMEDY
SMT.0011D.E00	Worn grommets and gaskets$_{8}$	The damage is to be sought inside and requires converter dismantling$_{8}$
	Worn oil pump$_{8}$	Replace$_{8}$
	Safety valve blocked in open position$_{8}$ SMT.0011C.E00	Clean and check the valve spring$_{8}$ SMT.0011R.E00

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PROBLEM	PROBABLE FAULT	REMEDY
STEERING		
Stiff Steering$_{1}$	Oil pressure too low$_{1}$	Check and regulate the hydraulic pressure$_{1}$
	Faulty hydraulic pump$_{1}$	Remove and replace the pump$_{1}$
	Faulty power-steering valve$_{1}$	Replace the power steering valve$_{1}$
Steering not operating well$_{2}$ SMT.0010D.E00	Oil pressure to be regulated$_{2}$	Check and adjust the pressure$_{2}$
	Internal leak in steering cylinder$_{2}$ SMT.0010C.E00	Remove and overhaul$_{2}$ SMT.0010R.E00

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PROBLEM	PROBABLE FAULT	REMEDY
OVERLOAD CONTROL SYSTEM		
Complete system block$_{1}$	Fuse or external cable damaged$_{1}$	Replace$_{1}$
	Faulty overload fuse$_{1}$	Replace$_{1}$
System in alarm$_{2}$	Voltage not correct for single components$_{2}$	Check with manufacturer$_{2}$
System block$_{3}$ SMT.0012D.E00	Faulty proximity sensor$_{3}$	Replace$_{3}$
	Proximity sensor not correctly positioned$_{3}$	Position correctly$_{3}$
	Faulty motor or pump$_{3}$	Replace$_{3}$
	Pipes blocked or damaged$_{3}$	Clean or replace$_{3}$
	Union leaks$_{3}$ SMT.0012C.E00	Tighten or replace$_{3}$ SMT.0012R.E00

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PROBLEM	PROBABLE FAULT	REMEDY
BRAKING SYSTEM		
Sudden braking$_{1}$	Wrong pressure setting$_{1}$	Adjust the pressure under the pedal while checking the pressure by means of a pressure gauge$_{1}$
Insufficient braking (front brakes)$_{2}$	Dirty oil or loss of properties (noise levels increase)$_{2}$	Replace the oil$_{2}$
	The actuator cylinder is not working properly$_{2}$	Check the pressure and replace the seals or the cylinder if necessary$_{2}$
		Replace the oil-bath discs of the brake$_{2}$
Insufficient braking (rear brakes - optional)$_{3}$	Worn disc brakes (noise levels increase)$_{3}$	Remove and replace the seals or change the cylinder$_{3}$
	The brake caliper is not working properly$_{3}$	Replace$_{3}$
	Worn brake pads (noise levels increase)$_{3}$	Replace$_{3}$

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PROBLEM	PROBABLE FAULT	REMEDY
Brake pressure not uniform$_{4}$	Minimum pressure of accumulator below max pressure of braking system$_{4}$	Make sure the accumulator pressure is set correctly$_{4}$
Continuous recharging of batteries$_{5}$	Battery nitrogen preloading too high or too low$_{5}$	Check accumulator preload$_{5}$
	Braking capacity too high for installed battery volume$_{5}$	Regulate the accumulator and/or check brake setting$_{5}$
Feed pump always under pressure$_{6}$	Worn pump $_{6}$	Check the pump$_{6}$
	Dirty valve$_{6}$	Clean the valve $_{6}$
Brakes remain blocked$_{7}$	Brake pedal not correctly released$_{7}$	If the brake pedal is not freely released and pressure returns to the brakes, check pedal stop adjustment.$_{7}$
The indicator on the panel does not light up or remains on$_{8}$ SMT.0014D.E00	Wrong pressure switch setting$_{8}$ SMT.0014C.E00	Regulate the pressure switch in the load valve, so this is at a pressure lower than the minimum pressure of the accumulator but high enough to ensure 3 or 4 braking actions after the indicator has come on$_{8}$ SMT.0014R.E00

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PROBLEM	PROBABLE FAULT	REMEDY
INCHING		
The inching control is not working (pressure too low)$_1$ SMT.0013D.E00	Pipes dirty or blocked$_1$	Clean or replace$_1$
	Leaking unions$_1$	Tighten or replace$_1$
	Low oil level$_1$	Top up$_1$
	Faulty pump$_1$	Check or replace$_1$
	Air in circuit$_1$	Completely drain$_1$
	Short pedal stroke$_1$ SMT.0013C.E00	Regulate the stroke$_1$ SMT.0013R.E00

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TORQUE WRENCH SETTING

Torque wrench setting

Thread	Class of resistance of screw	
	8,8	10,9
	Torque wrench setting in Nm	
M 6 x 1	10.4	15.3
M 8 x 1	27	40
M 10 x 1.25	53	78
M 12 x 1.25	95	139
M 12 x 1.5	89	130
M 14 x 1.5	150	220
M 16 x 1.5	229	336
M 18 x 1.5	345	491
M 20 x 1.5	482	687
M 22 x 1.5	654	932
M 24 x 1.5	814	1160
M 27 x 1.5	1200	1700
M 30 x 2	1670	2370

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CONVERSION CHARTS AND FORMULAS

DECIMAL EQUIVALENT CHART

Fraction	Decimal	Fraction	Decimal
1/64”	0.396875	33/64”	13.09687
1/32”	0.793750	17/32”	13.49375
3/64”	1.190625	35/64”	13.89062
1/16”	1.587500	9/16”	14.28750
5/64”	1.984375	37/64”	14.68437
3/32”	2.381250	19/32”	15.08125
7/64”	2.778125	39/64”	15.47812
1/8”	**3.175000**	**5/8”**	**15.87500**
9/64”	3.571875	41/64”	16.27187
5/32”	3.968750	21/32”	16.66875
11/64”	4.365625	43/64”	17.06562
3/16”	4.762500	11/16”	17.46250
13/64”	5.159375	45/64”	17.85937
7/32”	5.556250	23/32”	18.25625
15/64”	5.953125	47/64”	18.65312
1/4”	**6.350000**	**3/4”**	**19.05000**
17/64”	6.746875	49/64”	19.44687
9/32”	7.143750	25/32”	19.84375
19/64”	7.540625	51/64”	20.24062
5/16”	7.937500	13/16”	20.63750
21/64”	8.334375	53/64”	21.03437
11/32”	8.731250	27/32”	21.43125
23/64”	9.128125	55/64”	21.82812
3/8”	**9.525000**	**7/8”**	**22.22500**
25/64”	9.921875	57/64”	22.62187
13/32”	10.31875	29/32”	23.01875
27/64”	10.71562	59/64”	23.41562
7/16”	11.11250	15/16”	23.81250
29/64”	11.50937	61/64”	24.20937
15/32”	11.90625	31/32”	24.60625
31/64”	12.30312	63/64”	25.00312
1/2”	**12.70000**	**1”**	**25.40000**

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VOLUME

1 gallon	=	231 in^3
1 gallon	=	3.785 liters
1 quart	=	946 liters
1 liter	=	61.02 in^3

PRESSURE

1 bar	=	14.5 psi
1 atmosphere	=	14.7 psi
1 kgf/cm^2	=	14.2 psi
1 in-Hg	=	0.491 psi
1 bar	=	100 kPa
1 psi	=	6.89 kPa

SPEED

1 ft/sec	=	0.3048 m/sec
1 in/min	=	0.0254 m/min
1 M/h	=	1.609 km/h

LENGHT

1 inch	=	25.4 mm
1 meter	=	39.37 inches
1 micron	=	0.000039 inches

POWER

1 HP	=	1.014 metric HP
1 HP	=	0.7457 KW
1 HP	=	42.4 BTU/min
1 HP	=	2546 BTU/Hr
1 HP	=	550 ft.-lbf/sec.

FORCE

1 N (newton)	=	0.2248 lbs

TEMPERATURE

CENTIGRADE

Temp. C° = 5/9 X (Temp. F° - 32)

FAHRENHEIT

Temp. F° = (9/5 X Temp. C°) + 32

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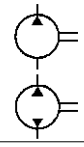
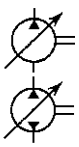
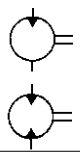
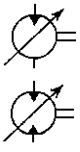
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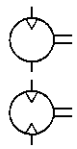
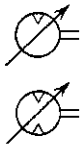
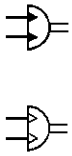
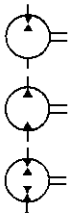
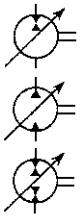
HYDRAULIC GRAPHIC SYMBOLS

according to ISO 1219 specification

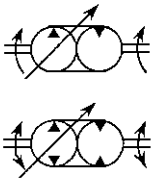
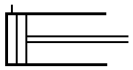
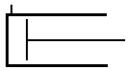
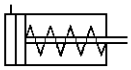
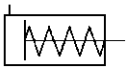
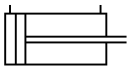
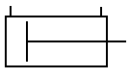
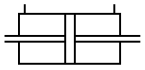
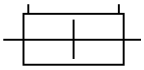
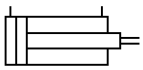
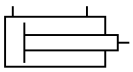
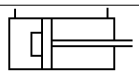
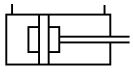
pompe, compressori, pompe per vuoto
pumps, compressor, vacuum pumps
pompes, compresseurs, pompes à vide
Pumpen, Verdichter, Vakuum-pumpen

pompa a cilindrata fissa fixed capacity pump pompes à cylindrée fixe Konstantpumpe	1 flow direction 2 flow direction	
pompa a cilindrata variabile variable capacity pump pompe à cylindrée variable Verstellpumpe	1 flow direction 2 flow direction	
compressore compressor compresseur Verdichter	always 1 flow direction	
pompa per vuoto vacuum pump pompe à vide Vakuumpumpe	with environment discharge	 NOT ISO
motori motors moteurs Motoren		
motori idraulici hydraulic motors moteurs hydrauliques Hydromotoren		
motori a cilindrata fissa fixed capacity motor moteur à cylindrée fixe Konstantmotor	1 flow direction 2 flow direction	
motore a cilindrata variabile variable capacity motor moteur à cylindrée variable Verstellmotor	1 flow direction 2 flow direction	

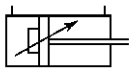
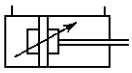
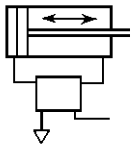
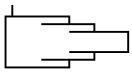
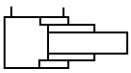
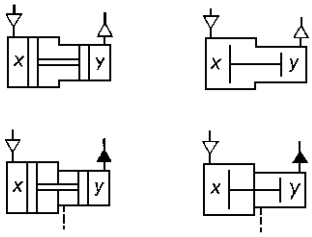
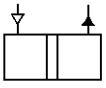
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motori pneumatici pneumatic motors moteurs pneumatiques Druckluftmotoren		
motore a cilindrata fissa fixed capacity motor moteur à cylindrée fixe Konstantmotor		
motore a cilindrata variabile variable capacity motor moteur à cylindré variable Verstellmotor		
motore oscillante oscillating motor moteur oscillant Schwenkmotor	Hydraulic Pneumatic	
pompe-motori pumps/motors units pompes-moteurs Pumpen-Motoren		
pompa-motore a cilindrata fissa fixed capacity pump/motor unit pompes-moteur à cylindée fixe Konstantpumpe-Motor	Inverted flow direction 1 flow direction 2 flow direction	
pompa-motore a cilindrata variabile variable capacity pump/motor unit pompe-moteur à cylindrée variable Verstellpumpe-Motor	Inverted flow direction 1 flow direction 2 flow direction	

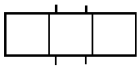
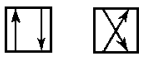
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variatore variable speed drive unit variateur Hydrokompaktgetriebe		
cilindri cylinders vérins Zylinder		DETAILED SEMPLIFIED
cilindro a semplice effetto single acting cylinder vérin à simple effet einfachwirkender Zylinder	Backing stroke: by unknow force	 
	by a spring	 
cilindro a doppio effetto double acting cylinder vérin à double effet doppeltwirkender Zylinder	simply rod	 
	twice rod	 
cilindro differenziale differential cylinder vérin différentiel Differentialzylinder		 
cilindri con ammortizzatore cylinders with cushion vérins avec amortisseur Zylinder mit Dampfung		
cilindro con ammortizzatore non regolabile cylinder with fixed cushion vérin avec amortisseur fixe Zylinder mit nicht verstellbarer Dampfung	from one side only	
	both side	

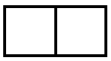
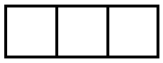
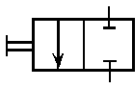
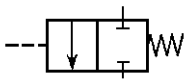
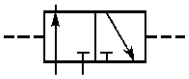
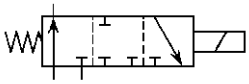
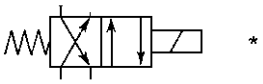
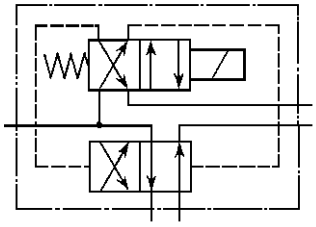
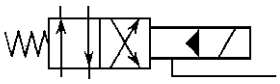
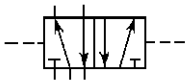
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cilindro con ammortizzatore regolabile cylinder with adjustable cushion vérin avec amortisseur réglable Zylinder mit verstellbarer Dampfung	from one side only both side	 
cilindro con impulso continuo cylinder with steady impulse vérin avec impulsion continue Zylinder mit Stetigantrieb		
cilindro telescopico a semplice effetto single acting telescope cylinder vérin télescope à simple effet einfachwirkender Teleskopzylinder	backing stroke by external forces	
cilindro telescopico a doppio effetto double acting telescope cylinder vérin télescope à double effet doppeltwirkender Teleskopzylinder	backing stroke by hydraulic system	
moltiplicatori di pressione pressure intensifiers multiplicateurs de pression Druckubersetzer scambiatori di pressione (aria - olio) air-oil actuators échangeurs de pression hydrauliques-pneumatiques Druckubersetzer distributori directional control valves distributeurs Wegeventile		DETAILED SIMPLIFIED  

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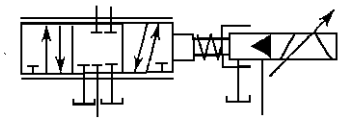
quadrato singolo one single square une case einzel Quadrat	Device for pressure or flow regulation	
	Hydraulic	
	Pneumatic	
	Without discharge	
	connection with tank discharge	
due o più quadrati two or more squares plusieurs cases zwei or mehrere Quadrate	Pressure or flow distributor. The connections are shown as rest position	
	Function positions are obtained by case shift.	
segno grafico semplificato dell'apparecchio in caso di rappresentazione multipla simplified symbol for valves in cases of multiple repetition symbole simplifié d'appareil en cas de représentation multiple vereinfachtes Ventilsinnbild bei mehrfacher Wiederholung		
vie o canali flow paths voies ou canaux Durchflusswege	1 way - 2 orifices	
	2 closed orifices	
	2 way - 4 orifices	
	2 way - 5 orifice (1 closed)	
	2 way transverse conn. 4 orifice	
	1 way in "by-pass" 4 orifice (2 closed)	

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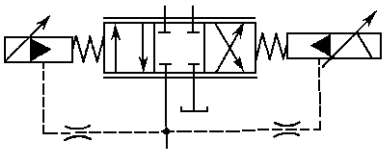
distributori con posizioni fisse non-throttling directional control valves distributeurs sans étranglement nichtdrosselnde Wegeventile	2 service position	
	3 service position	
	with a middling position	
	The first number is the first orience. The 2^{d}, the position. Pilot hole not shown.	
distributore 2/2 directional control valve 2/2 distributeur 2/2 2/2-Wegeventil	Manual controlled.	
	By pressure and returning action spring (discharge).	
distributore 3/2 directional control valve 3/2 distributeur 3/2 3/2-Wegeventil	By pressure from both side.	
	By solenoid control and returning action spring.	
distributore 4/2 directional control valve 4/2 distributeur 4/2 4/2-Wegeventil	By solenoid control and returning action spring.	 *
	The same control valve with pilot distributor detailed.	
	Semplified	
distributore 5/2 directional control valve 5/2 distributeur 5/2 5/2-Wegeventil	Pressure control both side.	

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a 2 stadi con asservimento meccanico
two stage with mechanical feed-back
à 2 étages avec asservissement mécanique
zweistufiges elektrohydraulisches Servoventil mit mechanischer Ruckfurung



a 2 stadi con asservimento idraulico
two stage with hydraulic feed-back
à 2 étages avec asservissement hydraulique
zweistufiges elektrohydraulisches Servoventil mit hydraulischer Ruckfiihrung



valvole unidirezionali
non-return valves
clapets de non-retour
Sperrventile

Open, when the inlet pressure is bigger than outlet



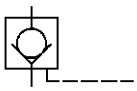
valvola di non ritorno
non-return spring loaded valve
clapet de non-retour avec ressort
Ruckschlagventil

Open, when the inlet pressure is bigger than outlet and spring force

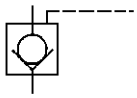


valvola di non ritorno pilotata
pilot controlled non-return valve
clapet de non-retour piloté
ferngesteuertes Ruckschlagventil

The closed position can be suppressed by the pilot

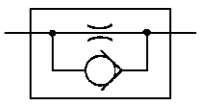


The open position can be suppressed by the pilot



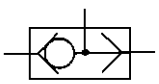
valvola di non ritorno con strozzamento
one way restrictor
clapet anti-retour avec étranglement
Drosselruckschlagventil

The flow can be one direction only and restrictor in opposite direction



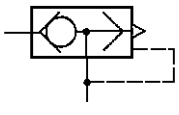
valvola selettiva di circuito
shuttle valve
sélecteur de circuit
Wechselventil

The under pressure hole is automatically connected to outlet inlet closed

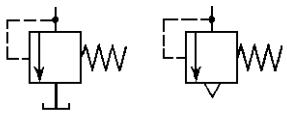
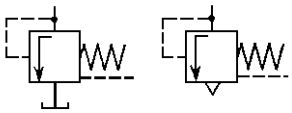
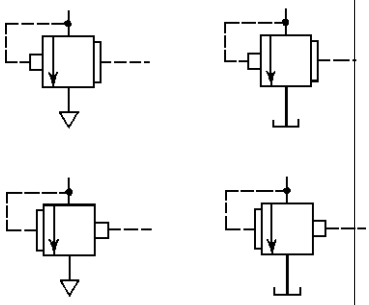
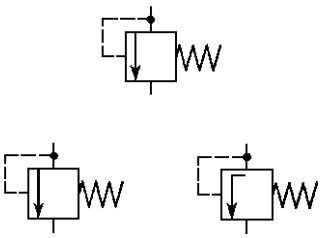


valvola di scappamento rapido
rapid exhaust valve
soupape d'echappement rapide
Schnellentluftungsventil

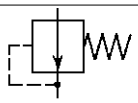
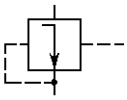
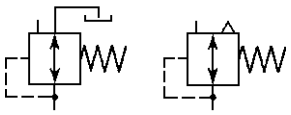
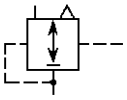
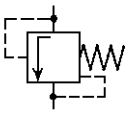
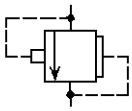
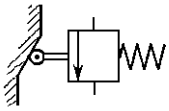
In case of inlet pressure fall, the outlet is connected to open air



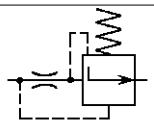
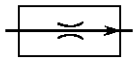
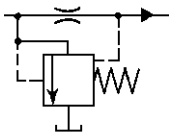
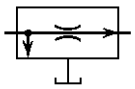
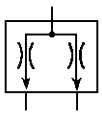
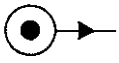
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apparecchi di regolazione della pressione pressure control valves appareils de réglage de la pression Druckventile	Rest position: normally closed one hole restricted	
	Normally open one hole restricted	
	2 holes restricted	
limitatore di pressione (valvola di sicurezza) pressure relief valve (safety valve) limiteur de pression (soupape de sureté) Druckbegrenzungsventil (Sicherheitsventil)	Pressure limitation on inlet hole by a discharge hole to the tank	
limitatore di pressione a comando pilota pressure relief valve with remote pilot control limiteur de pression piloté par commande à distance ferngesteuertes Druckbegrenzungsventil	As above but the pressure is limited by an against force	
limitatore proporzionale di pressione proportional pressure relief limiteur proportionnel de pression Druckstufenventil	The inlet pressure is limited by proportionally to pilot pressure	
valvola di sequenza sequence valve soupape de séquence Zuschaltventil	With the inlet pressure bigger than the against spring force, the flow can go to the outlet hole	

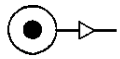
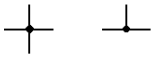
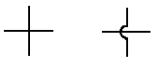
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riduttore di pressione pressure regulator or reducing valve (reducer of pressure) réducteur de pression ou détendeur Druckregelventil	without discharge hole	
	without discharge hole remote controlled	
(the outlet pressure is constant independently to inlet pressure)	with discharge hole	
riduttore di pressione pilotato pressure regulator with relief part, with remote control réducteur de pression avec orefice de décharge reglé a distance ferngesteuertes Druckregelventil	as above, but the outlet pressure is proportional to pilot pressure	
riduttore di pressione differenziale differential pressure regulator reducteur de pression differentiel Druckgefalleventil	the outlet pressure is constant reduced relate to inlet pressure	
riduttore di pressione proporzionale proportional pressure regulator réducteur de pression proportionnel Druckverhaltnisventil	the outlet press is reduced by a constant ratio with inlet pressure	
apparecchi di regolazione della portata flow control valves appareils de réglage du débit Stromventile		
valvola di strozzamento throttle valve réducteur de débit Drosselventil	Manual controlled	
	Mechanic controll with returning spring	
	Simplified symbol	

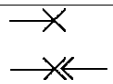
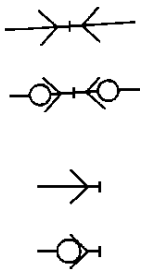
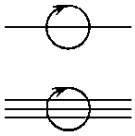
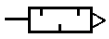
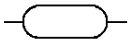
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regolatore di portata flow control valve regulateur de debit geschaltetes Stromregelventil (2-Wege-Stromregelventil) (flow independent to functuating pressure)	Detailed	
	Simplified	
regolatore di portata con ritorno in serbatoio by-pass flow control valve with relief port to reservoir regulateur de debit avec retour au réservoir parallelgeschaltetes Stromregelventil (3-Wege-Stromregelventil)	As above, but with discharge to tank Detailed Simplified	 
divisore di portata flow dividing valve diviseur de débit Stromteilerventil	The flow is divided about 50% each outlet	
rubinetto d'isolamento shut-off valve robinet d'isolement Absperrventil	Simplified	
sorgenti di energia sources of energy sources d'énergie Energiequellen		
sorgente di pressione pressure source source de pression Druckquelle		
sorgente di pressione idraulica hydraulic pressure source source de pression hydraulique hydraulische Druckquelle		

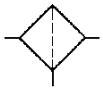
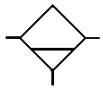
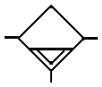
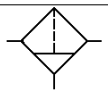
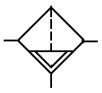
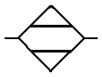
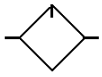
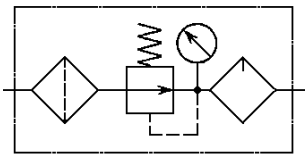
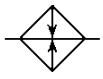
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sorgente di pressione pneumatica pneumatic pressure source source de pression pneumatique pneumatische Druckquelle		
motore elettrico electric motor moteur électrique Elektromotor		
motore termico heat engine moteur thermique Verbrennungsmotor		
condotti e connessioni flow lines and connections conduites et connexions Leitungen und Verbindungen		
tubazione flow line conduite Leitung	working return supply hose pilot hose typical leakage	
tubazione flessibile flexible pipe conduite flexible biegsame Leitung	hose connected generally to mobile part	
linea elettrica electric line életrique elektrische Leitung		
giunzione pipeline junction raccordement de conduites Leitungsverbindung		
incrocio crossed pipelines croisement de conduites Leitungskreuzung	without junction	
spurgo d'aria e scarico d'aria air bleed and air exhaust port purge d'air et orifice d'evacuation d'air Entluftungestelle und Auslass ins Freie	air bleed discharge without connections discharge with connections	

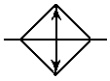
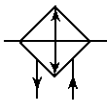
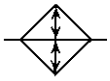
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diramazione power take-off prise Druckanschlusstelle	for measure and pressure check point: closed with connected hose	
innesto rapido quick-acting coupling raccordement rapide Schnellkupplung	connected: without non-return valve with non-return valve non connected: open hose/pipe closed hose/pipe by non-return valve	
giunto rotante rotary connection raccord rotatif Drehverbindung	hoses connection can rotate in service 1 way 3 ways	
silenziatore silencer silencieux Schalldampfer		
serbatoio reservoir réservoir Behalter	open air	
	hose above the fluid level	
	under fluid level	
	with charge hose	
	under pressure	
accumulatori accumulators accumulateurs Druckspeicher		
accumulatore idraulico hydraulic accumulat or accumulateur hydraulique Hydrospeicher	fluid under pressure due to spring-load or compressed gas (air-nitrogen...)	
accumulatore pneumatico pneumatic accumulator accumulateur pneumatique Druckluftspeicher		

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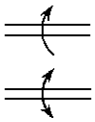
filtri, separatori, lubrificatori e apparecchi diversi filters, water traps, lubricators and miscellaneous apparatus filtres, lubrificateurs et appareillages divers Filter, Wasserabscheider, Schmier-und Wartungsgerate		
filtro filter filtre Filter		
separatore di condensa water trap purgeur Wasserabscheider	manual discharge automatic discharge	 
filtro con spurgo filter with water trap filtre avec purgeur Filter mit Wasserabscheider	manual discharge automatic discharge	 
essiccatore air dryer déshydrateur Trockner		
lubrificatore lubricator lubrificateur Oler		
gruppo di condizionamento conditioning unit groupe de conditionnement Wartungseinheit		
scambiatori di calore heat exchangers échangeurs de chaleur Warmeaustauscher		
riscaldatore heater réchauffeur Vorwarmer	the arrows show the warm bringing	

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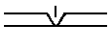
refrigeratore cooler refroidisseur Kuhler	The arrows show the warm outlet: without cooler hoses with cooler hoses	 
limitatore di temperatura temperature controller régulateur de température Temperaturbegrenzer		

elementi meccanici
mechanical components
eléments mécaniques
mechanische Bestandteile

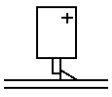
albero rotante
rotating shaft
arbre tournant
drehende Welle



posizionatore
detent
dispositif de maintien en position
Raste



dispositivo di bloccaggio
locking device
dispositif de verrouillage
Sperre

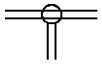


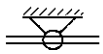
dispositivo di scatto
over-centre device
basculeur
Sprungwerk



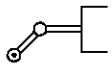
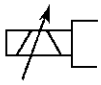
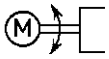
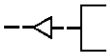
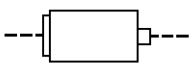


articolazione
pivoting device
mécanisme d'articulation
Gelenkverbindung





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comando manuale muscolar control commande manuelle Muskelkraftbetatigung	general	
	push button	
	lever	
	pedal	
comando meccanico mechanical control commande mecanique mechanische Betatigung	finger	
	spring	
	roller	
	roller single effect	
comando elettrico electrical control commande électrique elektrische Betatigung	By coil	
	1 coil	
	2 coil	
	2 coil variable action	
	engine motor	
comandi a pressione controls by application or release of pressure commandes par application ou par baisse de la pression Druckbetatigungen		
comando diretto direct acting control commande directe direkte Betatigung	by pression	
	by depression	
	by differential pressure	

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NOTES

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ELECTRICAL GRAPHIC SYMBOLS

according to Specification CEI 3-25

conduttore
conductor
conducteur

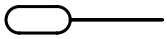
connessione di conduttori
connection of conductor
jointage de conducteurs



polo di una presa
pole of a socket
pole de une prise



polo di una spina
polo of a plug
born



terminale o morsetto
terminal



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contatto di chiusura
make contact
contact de fermature



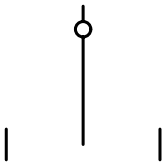
contatto di apertura
break contact
contact de ouverture



contatto di scambio con interruzione momentanea
change-over break before make contact
contact de échange avec interrption



contatto a due vie e a tre posizioni, con posizione centrale di apertura
two-way contact with centre-off position
contact à 3 positions avec contact centrale de ouverture



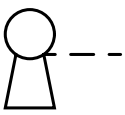
comando meccanico manuale (general symbol)
manually operated control, general symbol
commande mécanique manuel (symbole général)



comando a pulsante
operated by pushing
commande à poussoir

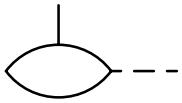


comando a chiave
operated by key
commande à clef



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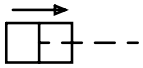
comando dal livello di un fluido
controlled by fluid level
commande dans fluid level



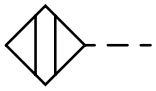
comando a leva
operated by lever
commande à levier



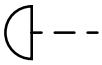
comando idraulico o pneumatico
operated by pneumatic or hydraulic control
commande hydraulique ou pneumatique



comando per effetto di prossimità
operated by proximity effect
commande pour effect de proximité



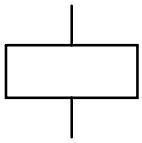
comando di sicurezza
(o di emergenza con pulsante a fungo)
emergency switch
(mushroom-head safety feature)
commande de sécurité (ou poussoir d'urgence)



comando rotativo
operated by turning
commande rotatif



bobina di comando (segno generale)
operating device, general symbol
bobine de commande



contatto di chiusura sensibile
alla temperatura
temperature sensitive switch, make contact
contact de fermeture sensible à la température

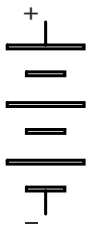


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massa, telaio
frame, chassis
chàssis



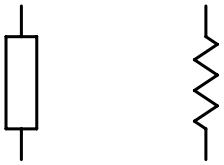
batteria di accumulatori
battery
batterie



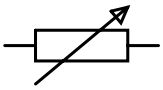
fusibile (segno generale)
fuse, general symbol
fusible (symbole général)



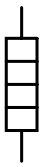
resistore (segno generale)
resistor, general symbol
résistor (symbole général)



resistore variabile
variabile resistor
résistor variable



elemento riscaldante
heating element
élément de chauffage

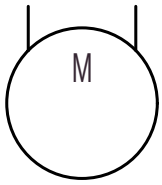


diodo a semiconduttore (segno generale)
semiconductor diode, general symbol
diode à semiconducteur (symbole général)

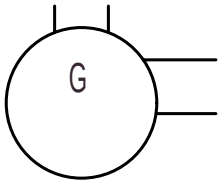


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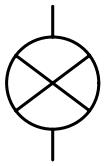
motore (segno generale)
motor, general symbol
moteur (symbole général)



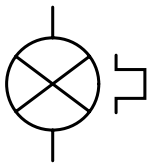
generatore, segno generale
generator, general symbol
generateur (symbole général)



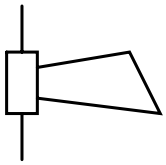
lampada (segno generale)
lamp, general symbol
lampe (symbole général)



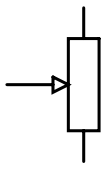
lampada di segnalazione lampeggiante
signal lamp, flashing type
lampe de signalisation clignotant



tromba elettrica
horn
avertisseur sonore électrique

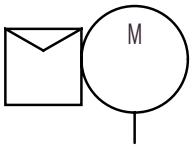


potenziometro per contatto mobile
potentiometer with sliding contact
potentiomètre pour contact meuble

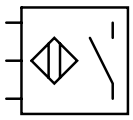


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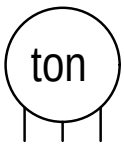
motorino avviamento
starter
moteur de démarrage



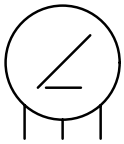
sensore di prossimità
prosimity switch
interrupteur de proximité



cella di carico
charging cell
cellule de charge



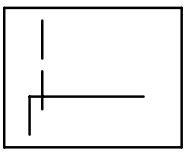
inclinometro
inclinometer
inclinomètre



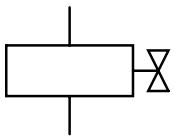
dispositivo, apparecchiatura, unità funzionale
item, equipment, functional unit
dispositif, appareillage, unité fonctionel



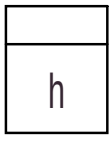
commutatore complesso (segno generale)
general switch, general symbol
commutateur complexe (symbole général)



elettrovalvola
solenoid valve
soupape électrique



contaore
hours counter
compteur heure



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- **HYDRAULIC SYSTEM**

- **ELECTRICAL SYSTEM**

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FANTUZZI REGGIANE

HYDRAULIC SCHEMATIC

FDC 160/1200

serial number 102054

https://truckmanualshub.com/

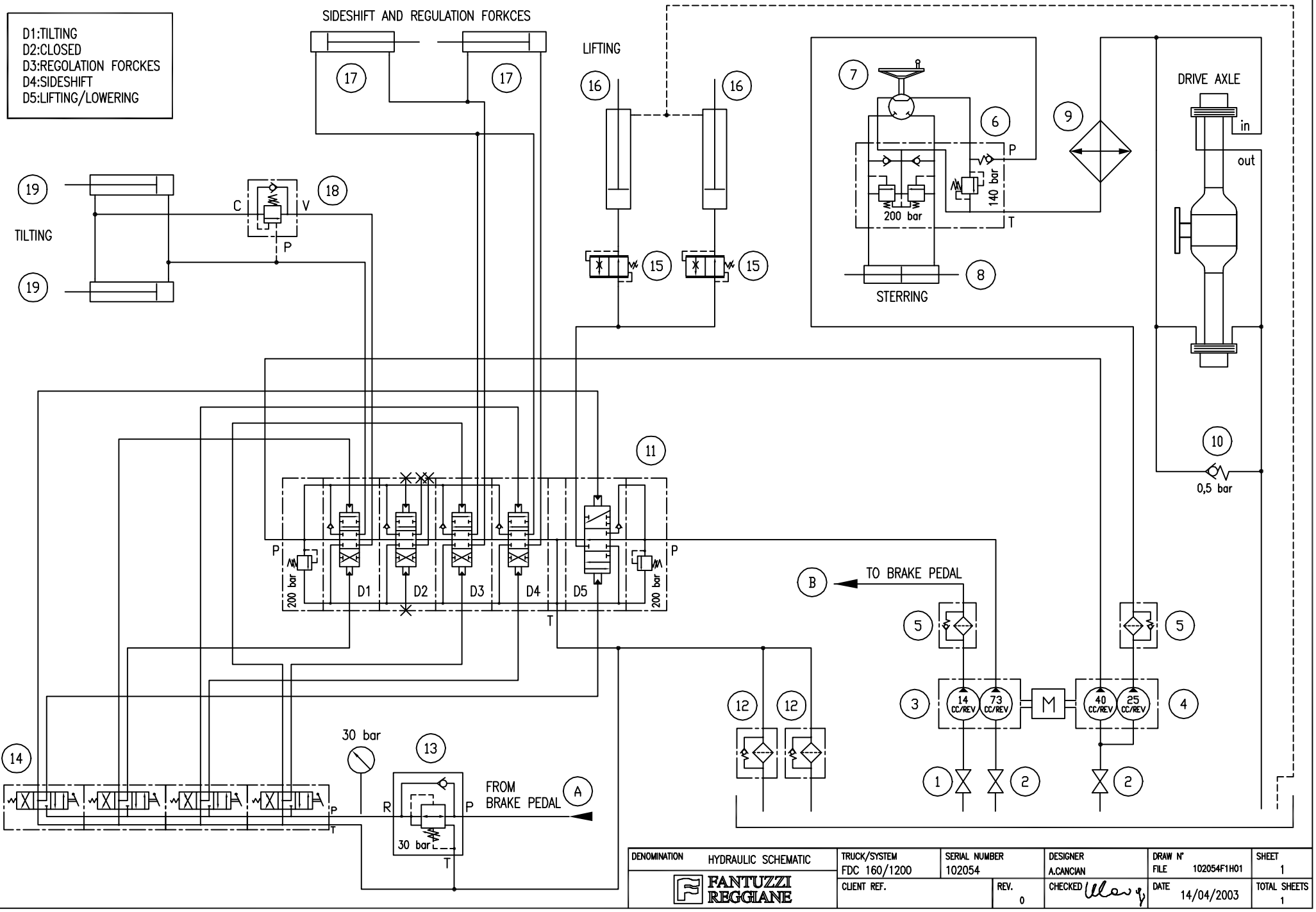
FANTUZZI REGGIANE

HYDRAULIC SCHEMATIC

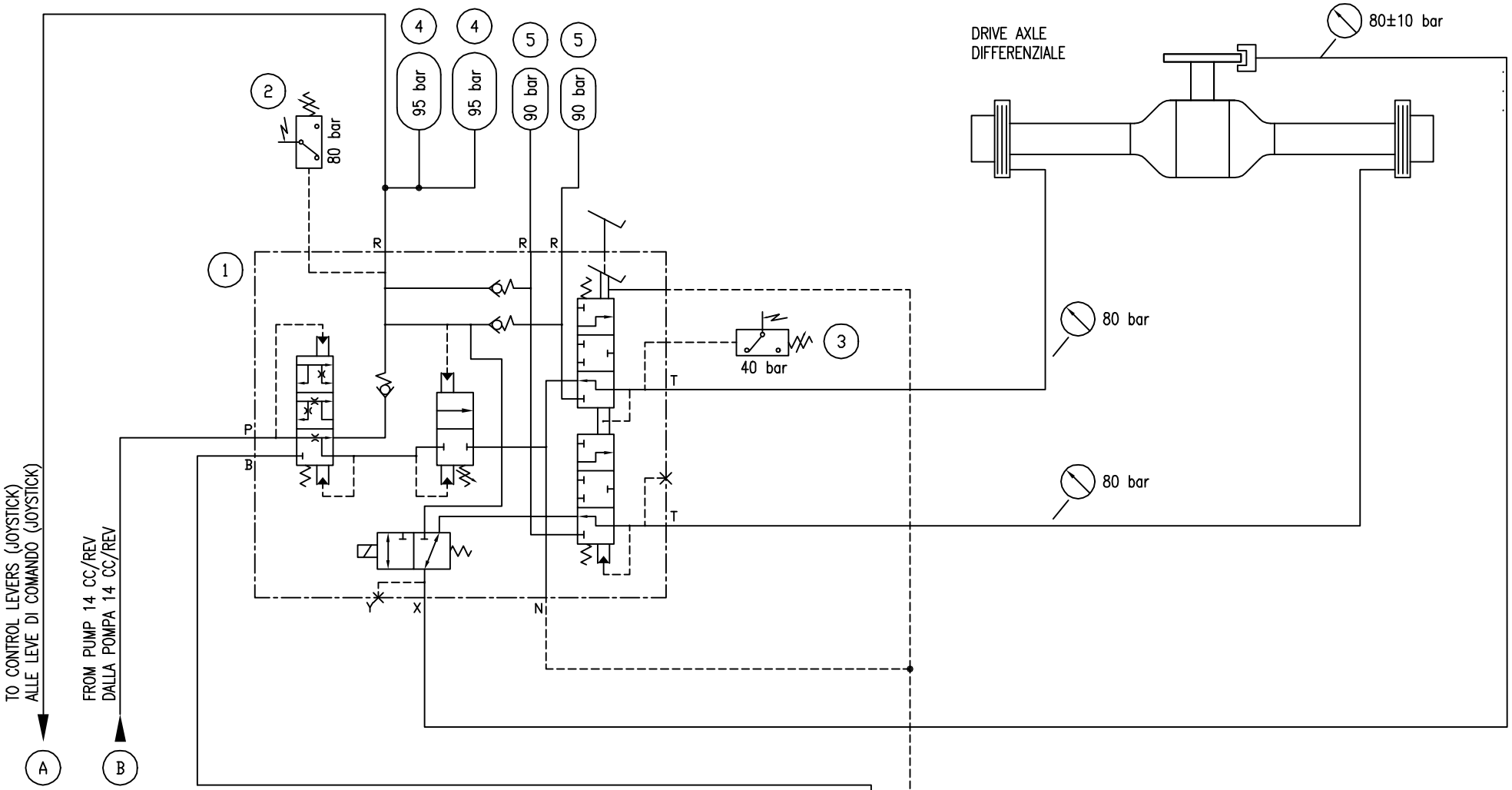
COMPONENTS LIST

Pos.	Description	Code	Qt.
1	GATE VALVE 3/4"	2333.143502	1
2	GATE VALVE 2"	2900.067	2
3	DOUBLE HYDRAULIC PUMP (73+14 cc/rev)	2204.010.0037	1
4	DOUBLE HYDRAULIC PUMP (40+25 cc/rev)	2204.673503	1
5	HIGH PRESSURE HYDRAULIC OIL FILTER	2470.543502	2
6	ANTISHOCK VALVE	29875182	1
7	HYDRAULIC DRIVE	29380923	1
8	STEERING CYLINDER	Z2346T	1
9	HEAT EXCHANGER	2225.964001	1
10	NON RETURN VALVE	2266.713501	1
11	DIRECTIONAL CONTROL VALVE	2154.673507	1
12	RELIEF HYDRAULIC OIL FILTER	2470.733501	2
13	PRESSURE REDUCING VALVE	2266.963510	1
14	REMOTE CONTROL LEVERS	2185.613502	1
15	LOWERING DECELERATION VALVE	29860535	2
16	LIFTING CYLINDER	N2325T	2
17	SIDESHIFT CYLINDER	29876076	2
18	OVERCENTER VALVE	2266.050.0001	1
19	TILTING CYLINDER	M3786T	2

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5	Hydraulic accumulator/Accumulatore idraulico 0,75 l x 90 bar	2302.883501	2
4	Hydraulic accumulator/Accumulatore idraulico 1,5 l x 95 bar	2302.000.0001	2
3	Pressure switch for inching-stop lights/Pressostato per inching-luci stop	2870.734501	1
2	Pressure switch for low pressure/Pressostato per bassa pressione	2870.734501	1
1	Brake pedal/Pedale freno	2577.884001	1
Pos.	Description/Descrizione	Code/Codice	Qt.

10 bar	145 psi
40 bar	580 psi
90 bar	1300 psi
95 bar	1380 psi
100 bar	1450 psi

BRAKE SYSTEM SCHEMATIC/SCHEMA IMPIANTO FRENI

DENOMINATION: BRAKE SYSTEM SCHEMATIC	TRUCK/SYSTEM: FDC 160/1200	SERIAL NUMBER: 102054	DESIGNER: A.CANCIAN	DRAW N° FILE: 102054F1B01	SHEET: 1
FANTUZZI REGGIANE	CLIENT REF.	REV.: 0	CHECKED	DATE: 14/04/2003	TOTAL SHEETS: 1

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FANTUZZI REGGIANE

ELECTRIC DIAGRAM

FDC 160/1200

serial nr. 102054

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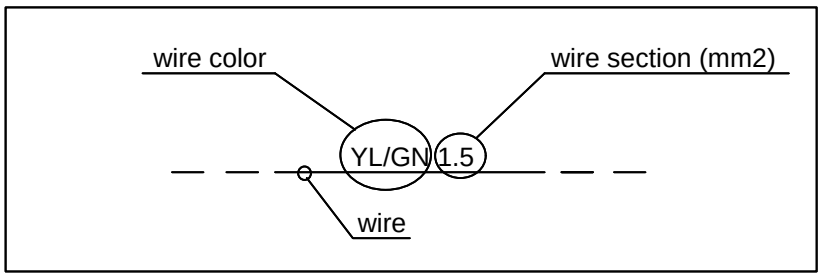
FANTUZZI REGGIANE

ELECTRIC DIAGRAM

LEGENDA

COLOR CODE

RD	RED
YL	YELLOW
BU	BLUE
BR	BROWN
BK	BLACK
GY	GRAY
WH	WHITE
OR	ORANGE
GN	GREEN
VL	VIOLET
PK	PINK
CY	CYAN



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FANTUZZI REGGIANE

ELECTRIC DIAGRAM

PLUG AND JUNCTION BOX LIST

X01	ELECTRIC BOX PLUG
X02	DASHBOARD PLUG
X03	STARTER - PREHEATER PLUG
X04	ELECTRIC BOX SUPPLY PLUG
X05	TURN LIGHT HANDLER PLUG
X06	WORKING BEAMS ON MAST PLUG
X13	CABIN PLUG

FANTUZZI REGGIANE

ELECTRIC DIAGRAM

COMPONENTS LIST

SIM.	LOC.	DESCRIPTION	PART NUMBER
D01	1/C14	TURN IND./BEAMS LEVER	3E.D12066
D02	1/C10	INTERMITTENCE DEVICE	2055.734505
D03	7/C02	GEARSHIFT HANDLER	2185.674501
D04	6/J17	HOURS COUNTER	3E.S17217
D05	6/E03	FUEL LEVEL	3E.S17203
D06	6/E11	GEARBOX OIL TEMPERATURE	3E.S17204
D07	6/E14	ENGINE WATER TEMPERATURE	3E.S17216
D08	8/E04	A. C. DEVICE	2009.935001
D09	8/F07	TRINERY	2009.090.0010
D12	7/G07	GEARSHIFT	
E01	1/J15	LH TURN INDICATOR	3E.L26013.0
E02	1/J16	LH TURN INDICATOR	3E.L26013.0
E03	1/J17	RH TURN INDICATOR	3E.L26013.0
E04	1/J18	RH TURN INDICATOR	3E.L26013.0
E05	2/J03	LH STANDING LIGHT	3E.L26014.0
E06	2/J04	LH STANDING LIGHT	3E.L26018.0
E07	2/J05	RH STANDING LIGHT	3E.L26014.0
E08	2/J06	RH STANDING LIGHT	3E.L26018.0
E09	3/J01	STOP LIGHT	3E.L26018.0
E10	3/J02	STOP LIGHT	3E.L26018.0
E11	2/J07	DRIVING BEAM	3E.L26012.0
E12	2/J08	DRIVING BEAM	3E.L26012.0
E13	2/J09	TRAFFIC BEAM	3E.L26012.0
E14	2/J10	TRAFFIC BEAM	3E.L26012.0
E15	2/J17	LIGHT IN CABIN	4D.SEG103000
E16	2/J11	WORKING BEAM	29860598
E17	2/J12	WORKING BEAM	29860598
E19	2/J14	WORKING BEAM	29860598
E20	2/J15	WORKING BEAM	29860598
E22	3/J02	REVERSE MOTION BEAM	3E.L26012.0
E23	3/J03	REVERSE MOTION BEAM	3E.L26012.0
E24	6/D05	BRAKE OIL PRESSURE P.L.	2037.130.0003
E26	6/D06	ENGINE OIL PRESSURE P.L.	2037.130.0003
E27	6/D07	GEARBOX OIL PRESSURE P.L.	2037.130.0003
E28	2/J18	REVOLVING BEACON	2037.964501
E29	6/G10	TURN INDICATOR P.L.	2037.130.0003
E30	6/E10	STANDING LIGHTS P.L.	2037.130.0003
E32	6/I02	PARKING BRAKE P.L.	2037.130.0003
E33	6/F15	BACKLIGHTING	2037.130.0003
E36	6/F04	BACKLIGHTING	2037.130.0003
E37	6/F12	BACKLIGHTING	2037.130.0003
E38	6/G13	DRIVING BEAMS P.L.	2037.130.0003
E39	6/F16	NEUTRAL GEAR P.L.	2037.130.0003
E40	6/E16	BATTERY RECHARGE P.L.	2037.130.0003
E41	6/F18	GLOW PLUG P.L.	2037.130.0003
E43	6/D09	AIR FILTER CLOGGED P.L.	2037.130.0003

FANTUZZI REGGIANE

ELECTRIC DIAGRAM

COMPONENTS LIST

SIM.	LOC.	DESCRIPTION	PART NUMBER
F01	6/B02	INSTRUMENTS, PILOT LIGHT	-
F02	4/B11	WORKING BEAMS, ELECTRO-FANS	-
F03	3/A07	PILOT LIGHTS	-
F04	3/B09	DEFROSTER	-
F06	3/B13	UPPER WINDSCREEN WIPER	-
F07	3/B17	FRONT WINDSCREEN WIPER	-
F08	3/A07	PARKING BRAKE	-
F09	1/B12	TURN INDICATOR LEVER	-
F10	7/B01	GEARSHIFT	-
F11	1/B10	INTERMITTENCE	-
F12	2/B17	CABIN	-
F13	3/A05	ENGINE STOP	-
F14	5/B06	OIL SENSORS	-
F15	8/B07	A. C. DEVICE	-
F17	3/B11	REAR WINDSCREEN WIPER	-
F18	3/A02	REVERSE MOTION BEAMS	-
F19	2/B07	DRIVING BEAM	-
F20	2/B09	TRAFFIC BEAM	-
F21	2/F03	STANDING LIGHTS	-
F23	3/A01	STOP LIGHTS	-
F24	2/B11	WORKING BEAMS	-
F25	2/B14	WORKING BEAMS	-
F26	4/B01	WORKING BEAMS	-
F27	4/D04	HYDRAULIC OIL ELECTRO-FAN	-
F28	4/D07	HYDRAULIC OIL ELECTRO-FAN	-
G01	1/C01	BATTERY	29846475
G02	1/C03	BATTERY	29846475
G03	1/E01	BATTERY	29846475
G04	1/E03	BATTERY	29846475
G05	1/I04	ALTERNATOR	2V.1089862
H01	2/J01	HORN	29875521
H02	3/J04	REVERSE MOTION BEEPER	2008.010.0001
K01	5/J09	REVERSE MOTION INCHING	2870.424502
K02	5/J10	FORWARD INCHING	2870.424502
K03	5/J04	DRIVING BEAMS	2870.424502
K04	5/J03	DIPPED BEAMS	2870.424502
K05	4/J17	WORKING BEAMS	2870.424502
K06	5/J17	REVERSE MOTION BEAMS	2870.424502
K07	7/J05	NEUTRAL	2870.424502
K08	5/J11	STOP LIGHTS	2870.424502
K09	4/J15	WORKING BEAMS	2870.424502
K10	4/J16	WORKING BEAMS	2870.424502
K11	5/J06	HYDRAULIC OIL ELECTRO-FAN	2870.424502
K12	5/J16	GLOW PLUG	2870.424502
K14	5/I13	STARTER	2899908
K15	5/J15	DUTIES	2899908

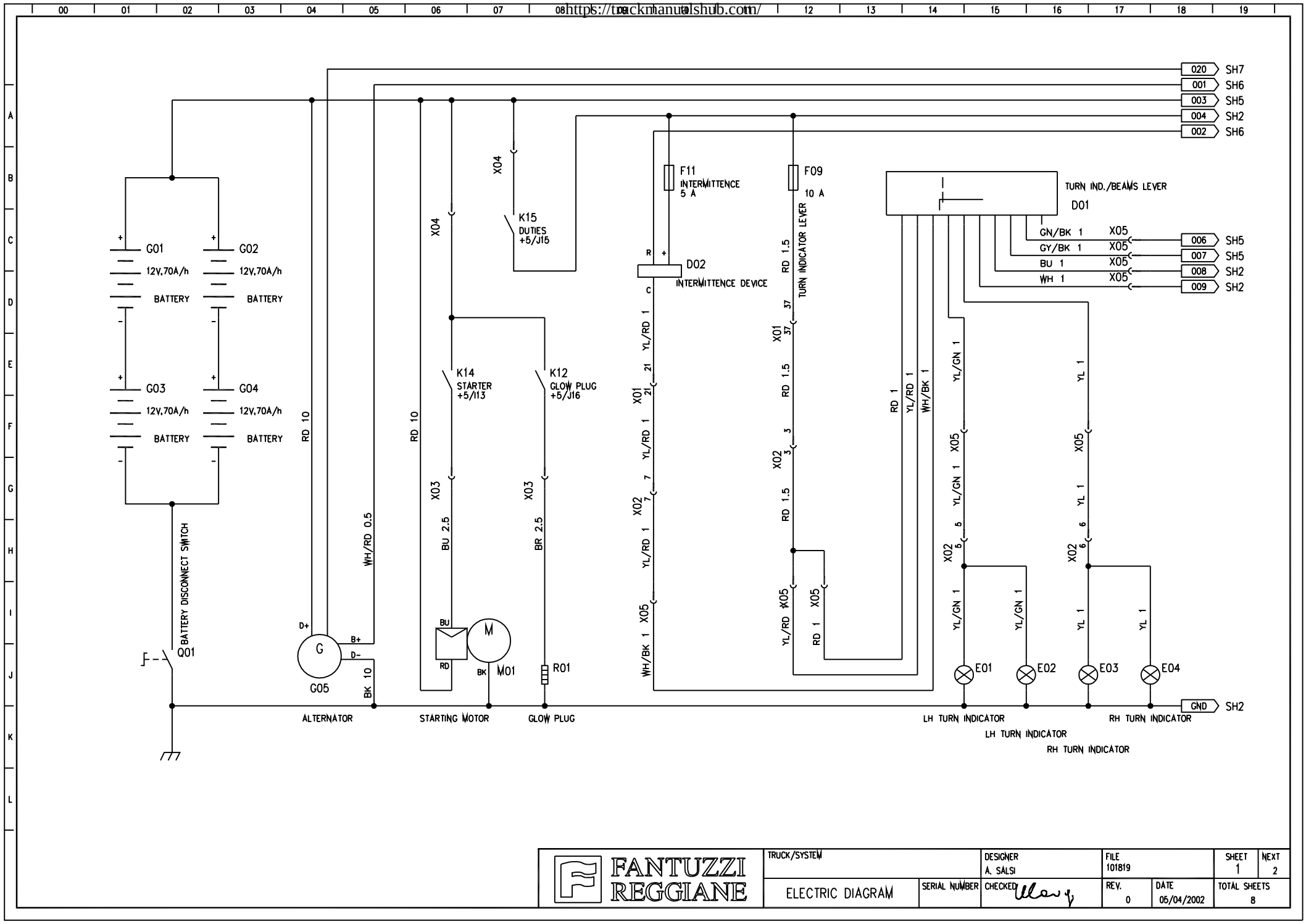
FANTUZZI REGGIANE

ELECTRIC DIAGRAM

COMPONENTS LIST

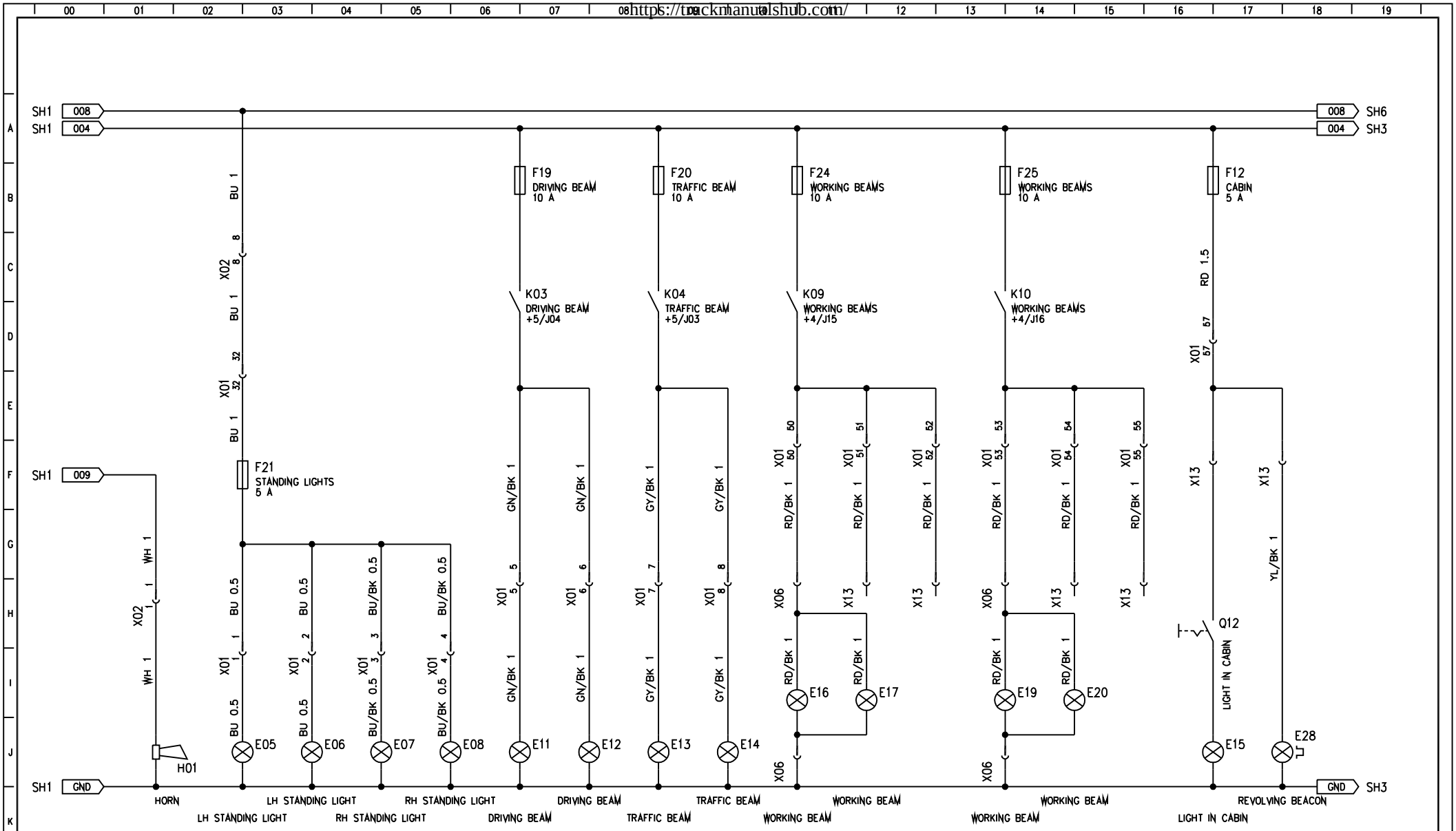
SIM.	LOC.	DESCRIPTION	PART NUMBER
K16	8/J06	COMPRESSOR	2900.050
K17	8/J08	ELECTRO-FANS	2900.050
K18	5/J07	INCHING	2056.932001
M01	1/I06	STARTING MOTOR	2V.847307
M02	3/J12	REAR WINDSCREEN WIPER	4D.OS09906016
M03	3/J14	UPPER WINDSCREEN WIPER	2075.010.0002
M04	3/J16	WINDSCREEN WASHER PUMP	4D.SEG090324
M05	3/J17	FRONT WINDSCREEN WIPER	4D.ITM10214
M06	8/J01	ELECTRO-FANS	2009.935001
M08	4/J04	HYDRAULIC OIL ELECTRO-FAN	2225.023.0001
M09	4/J06	HYDRAULIC OIL ELECTRO-FAN	2225.023.0001
M10	4/J08	HYDRAULIC OIL ELECTRO-FAN	2225.023.0001
M11	4/J09	HYDRAULIC OIL ELECTRO-FAN	2225.023.0001
M12	8/I12	ELECTRO-FAN 1	2009.090.0026
M13	8/I13	ELECTRO-FAN 2	2009.090.0026
M14	8/I10	COMPRESSOR	2009.090.0027
Q01	1/J02	BATTERY DISCONNECT SWITCH	29875032
Q02	3/F07	PARKING BRAKE	3E.TE.095+3E.TE.096
Q03	3/F09	DEFROSTER	3E.I35SW210
Q04	3/F11	REAR WINDSCREEN WIPER	3E.I35SW210
Q05	3/G13	UPPER WINDSCREEN WIPER	3E.I35SW210
Q06	3/G17	FRONT WINDSCREEN WIPER	3E.I35SW223
Q07	3/G15	WINDSCREEN WASHER PUMP	3E.I35SW223
Q08	4/F11	ELECTRO-FANS	3E.I35SW212
Q09	5/D15	STARTER KEY	3E.Q13017
Q10	4/D15	WORKING BEAMS	3E.I35SW210
Q12	2/H17	LIGHT IN CABIN	4D.SEG103000
R01	1/J08	GLOW PLUG	2V.848585
R02	3/J09	DEFROSTER	4D.FN14
S01	5/F09	STOP LIGHTS	2870.734501
S02	5/E06	HYDRAULIC OIL TEMPERATURE	2730017440
S04	6/J03	FUEL LEVEL	2055.710501
S05	6/J11	GEARBOX OIL TEMPERATURE	-
S06	6/J14	ENGINE WATER TEMPERATURE	29845716
S07	6/J05	BRAKE OIL PRESSURE	2870.734501
S08	6/J06	ENGINE OIL PRESSURE	29816227
S09	6/J07	GEARBOX OIL PRESSURE	29381168
S10	6/J09	AIR FILTER CLOGGED	29845719
S11	7/J11	TRANSMISSION SPEED	2761454
Y01	3/J05	ENGINE STOP	3004.747001
Y02	3/J07	PARKING BRAKE	2M015532
Y03	7/J16	FORWARD GEAR	-
Y04	7/J18	REVERSE MOTION GEAR	-
Y05	7/J13	SECOND GEAR	-
Y06	7/J14	THIRD GEAR	-

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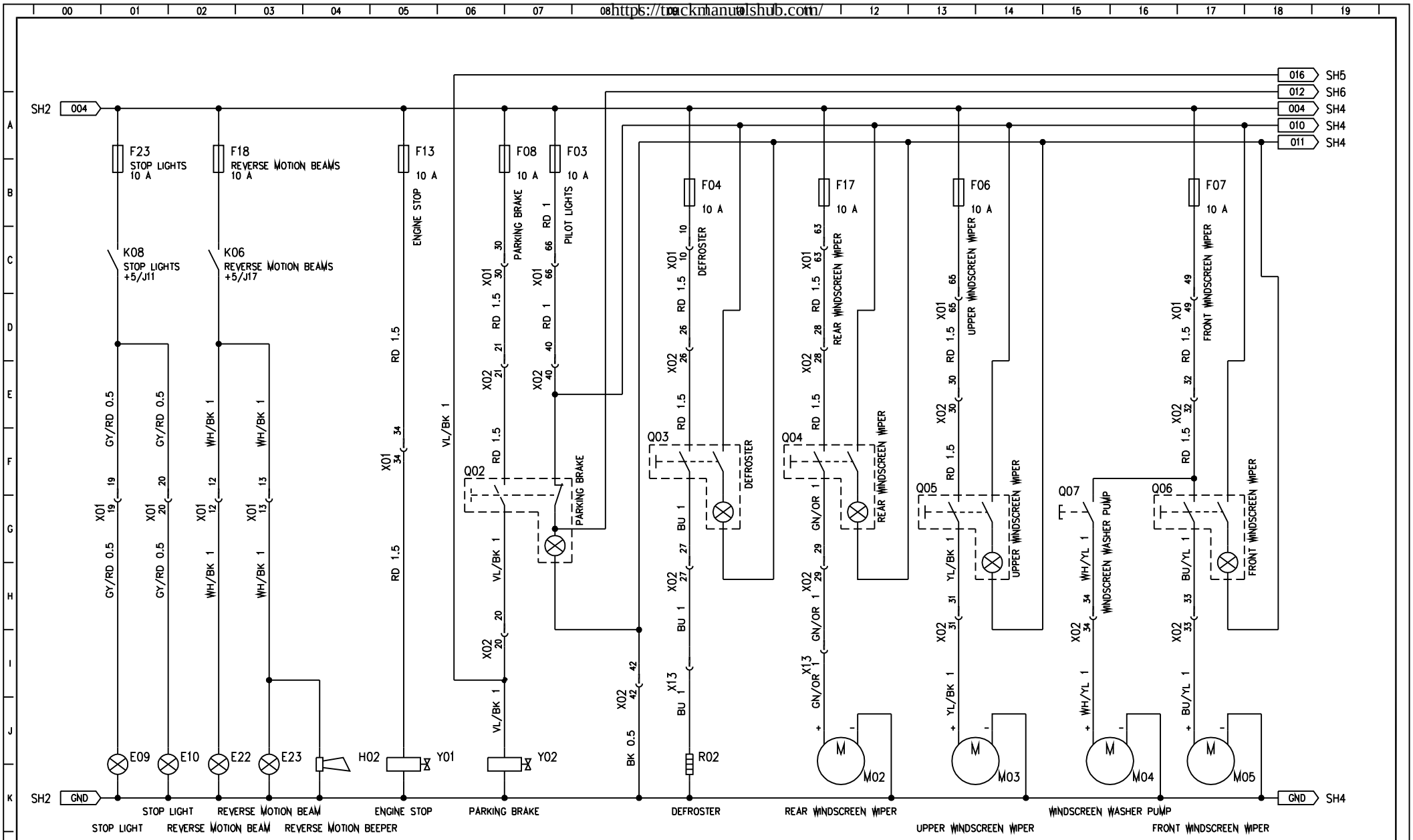
FANTUZZI REGGIANE	TRUCK/SYSTEM		DESIGNER A. SALSI	FILE 101819	SHEET 1	NEXT 2
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https://truckmanualshub.com/



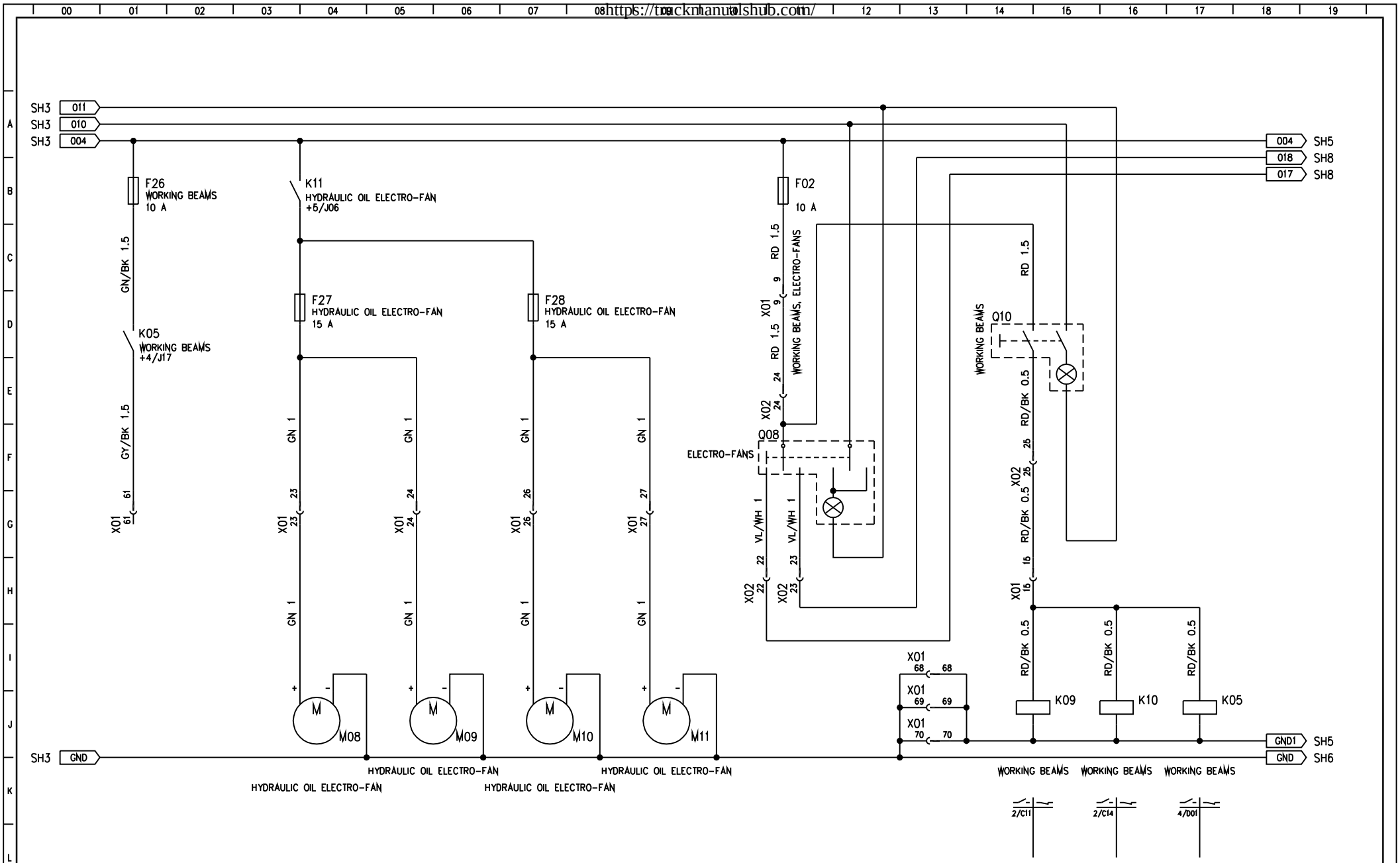
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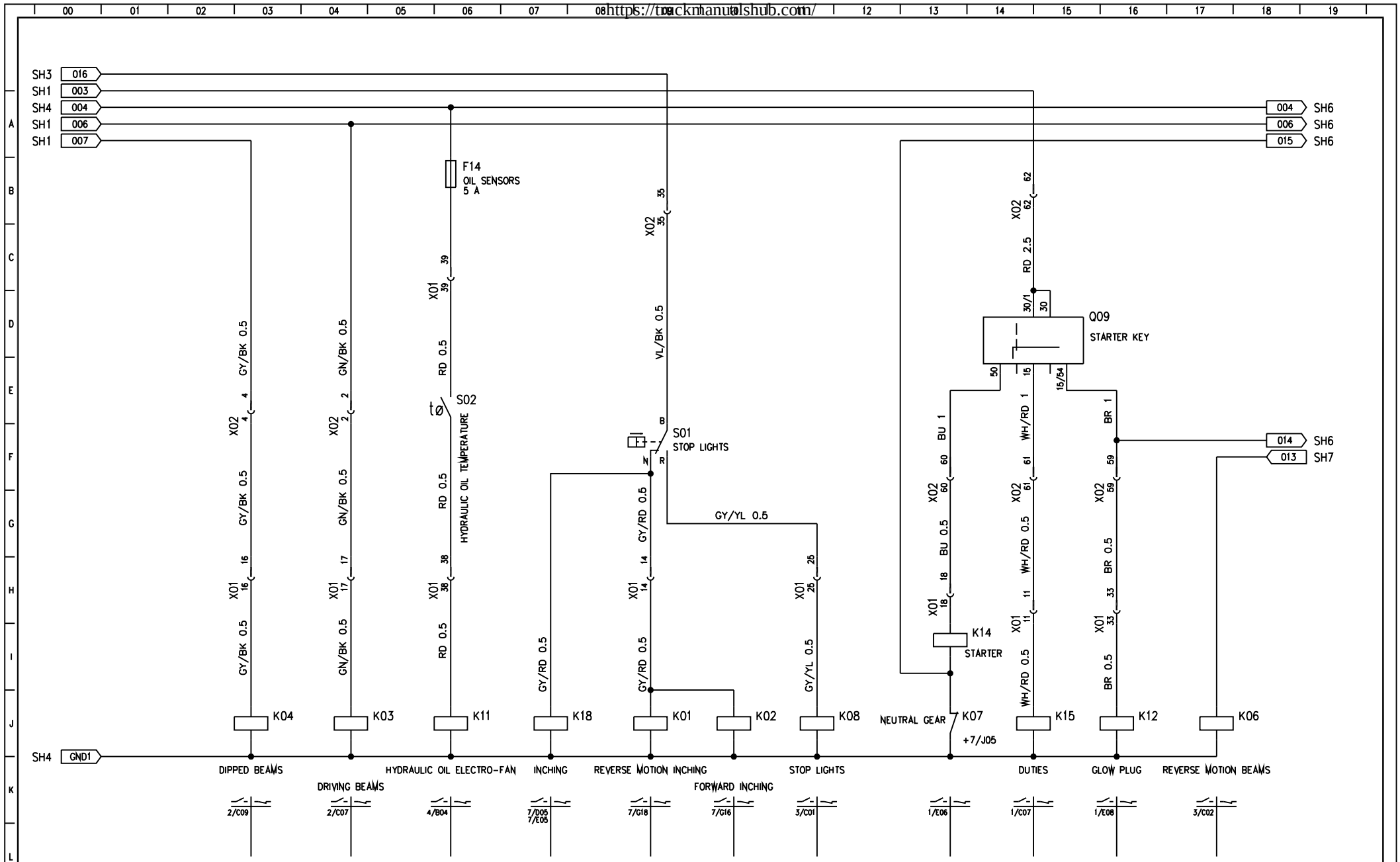
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	ELECTRIC DIAGRAM	SERIAL NUMBER	CHECKED	REV. 0	DATE 05/04/2002	TOTAL SHEETS 8

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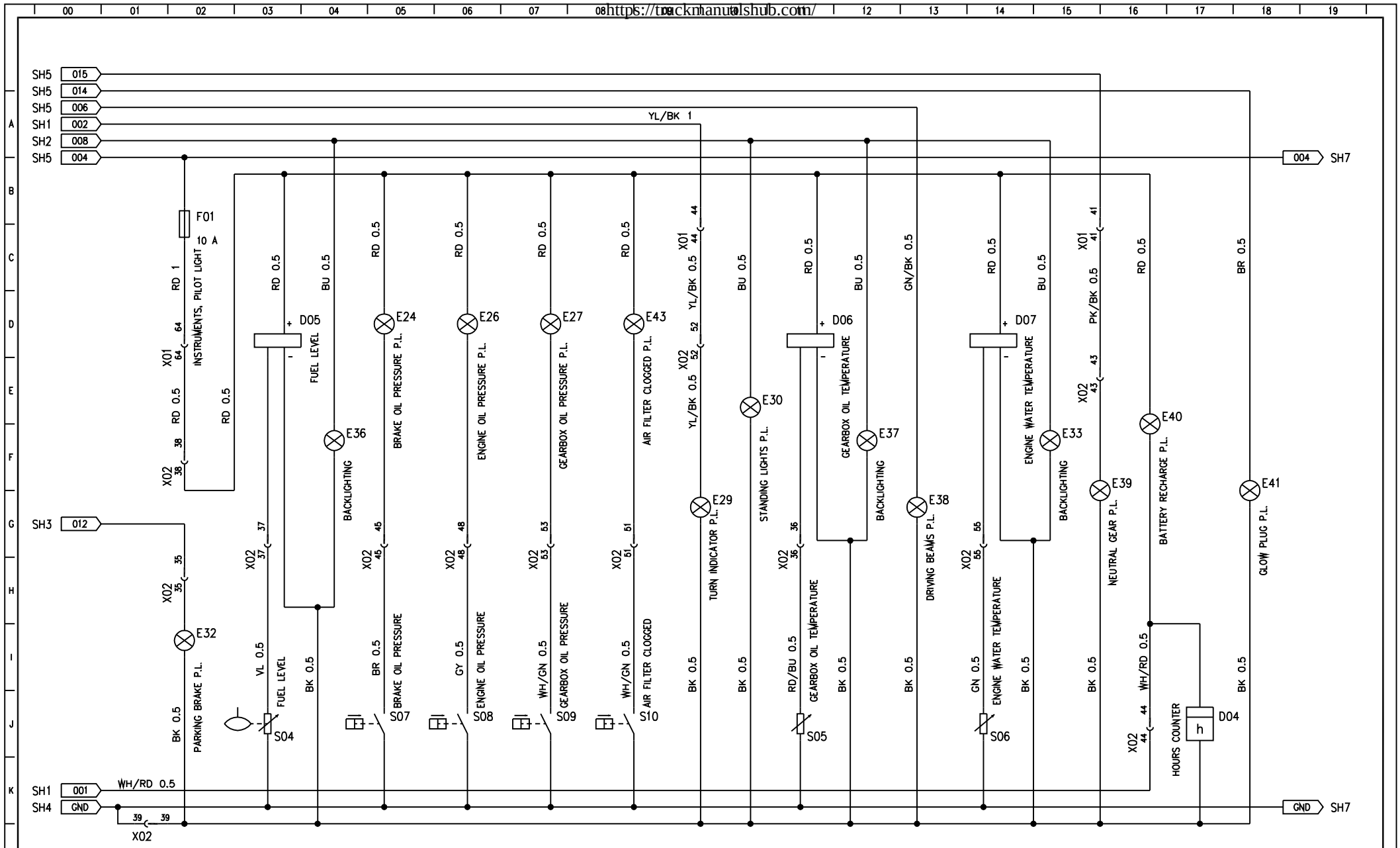
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	ELECTRIC DIAGRAM	SERIAL NUMBER	CHECKED	REV. 0 / DATE 05/04/2002	TOTAL SHEETS 8	

https://truckmanualshub.com/



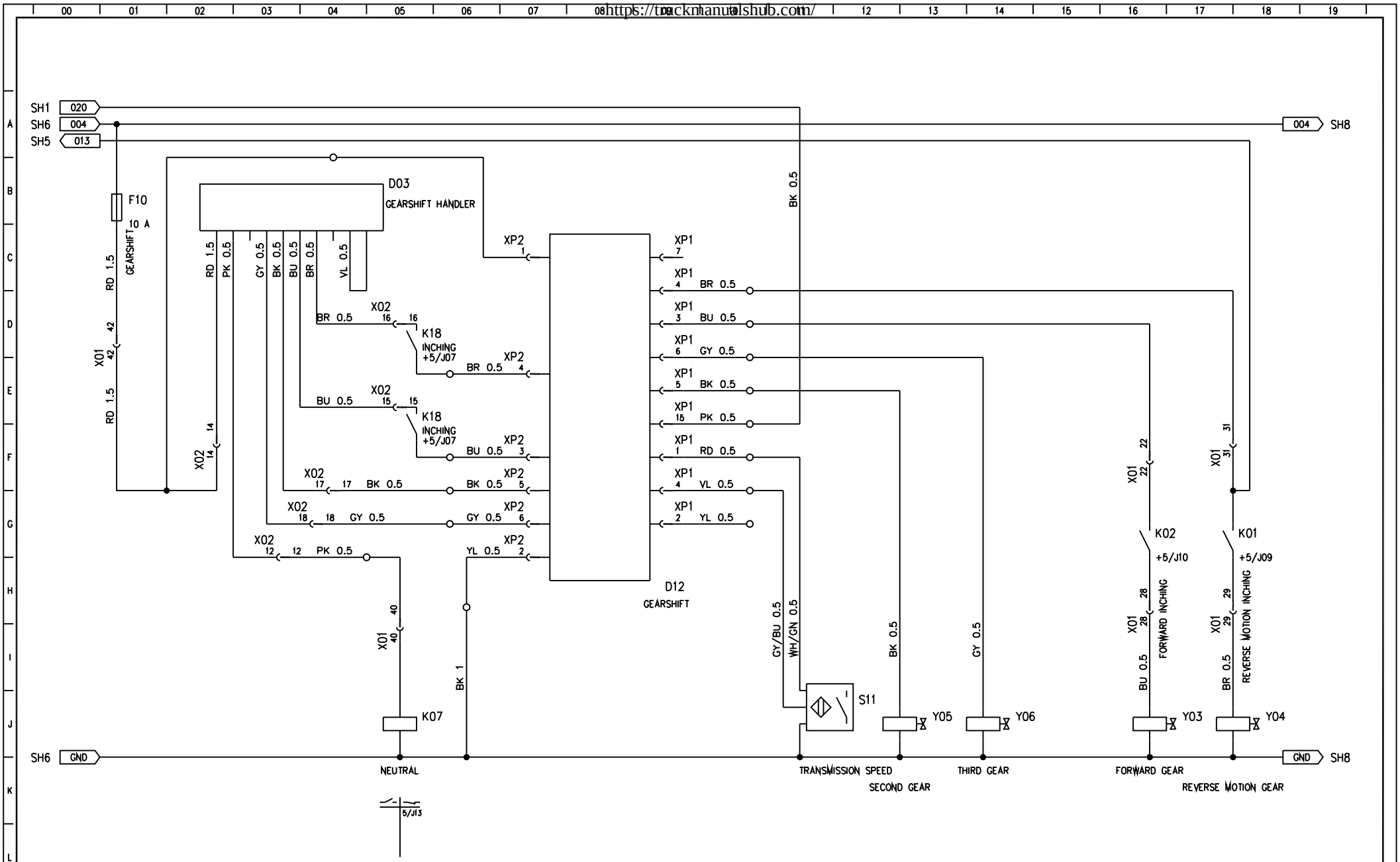
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	ELECTRIC DIAGRAM	SERIAL NUMBER	CHECKED	REV. 0 / DATE 05/04/2002	TOTAL SHEETS 8	

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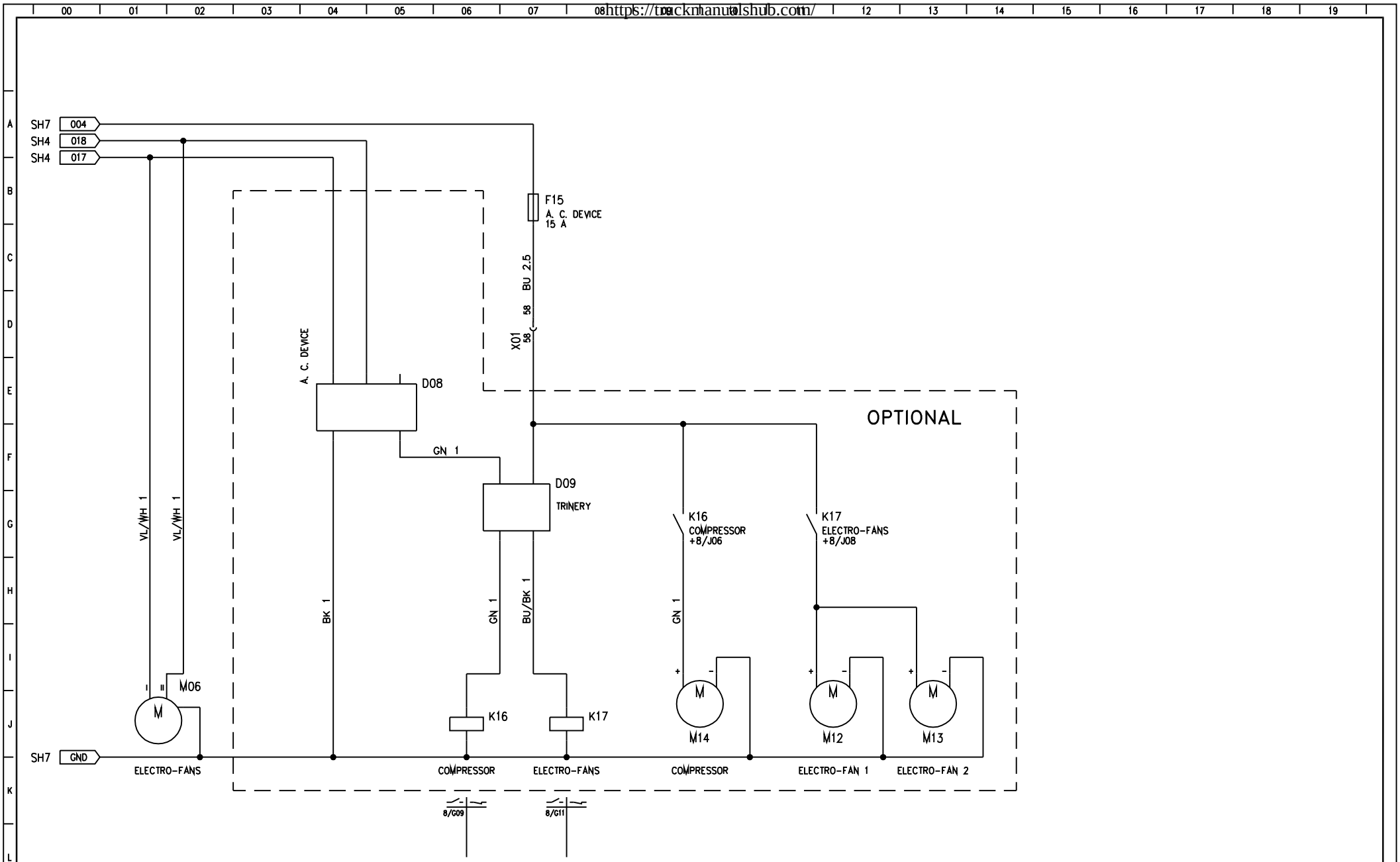
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	ELECTRIC DIAGRAM	SERIAL NUMBER	CHECKED	REV. 0	DATE 05/04/2002	TOTAL SHEETS 8

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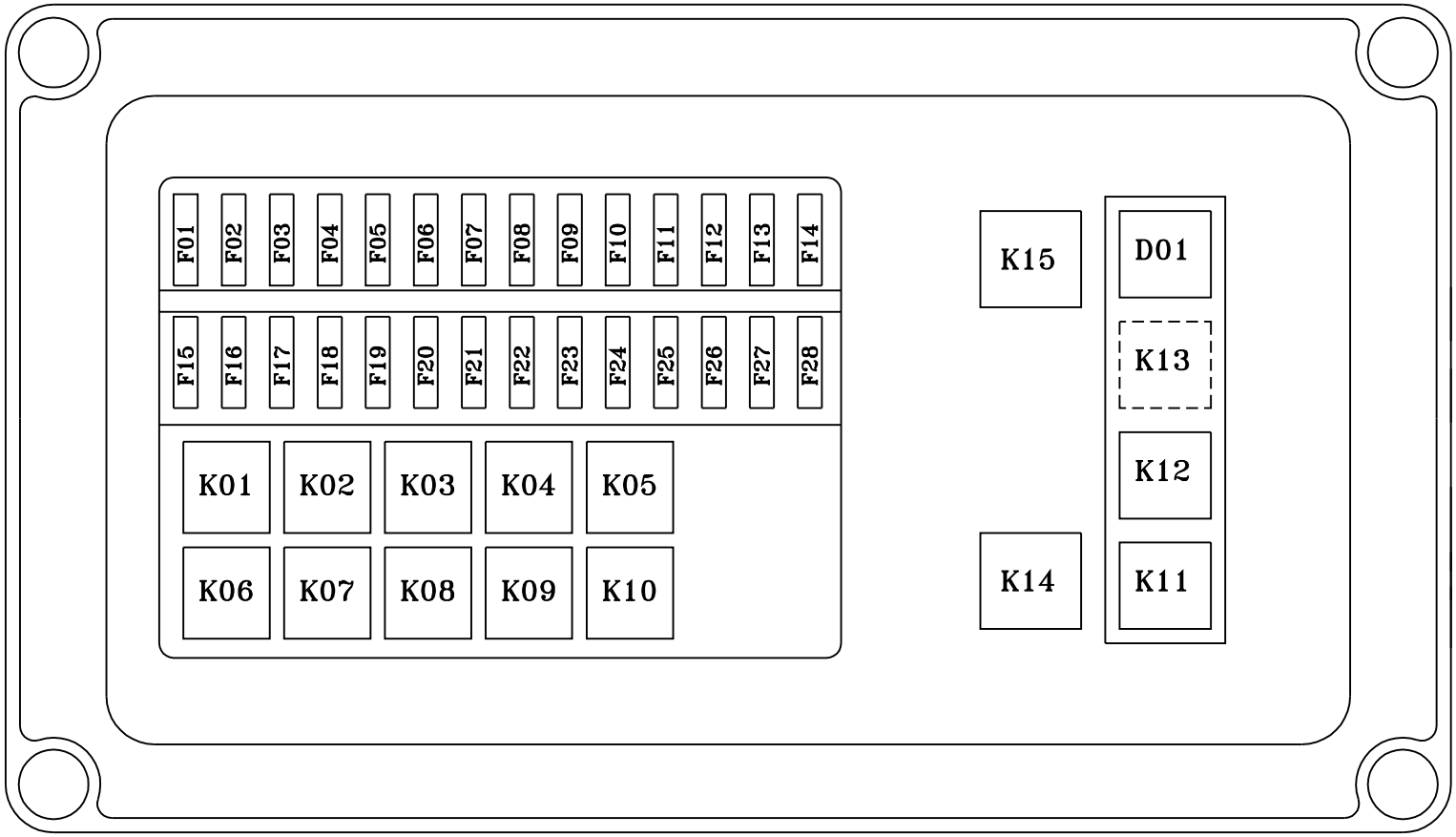
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	ELECTRIC DIAGRAM	SERIAL NUMBER	CHECKED	REV. 0	DATE 05/04/2002	TOTAL SHEETS 8	

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FANTUZZI REGGIANE	TRUCK/SYSTEM		DESIGNER A. SALSI	FILE 101819	SHEET 8	NEXT -
	ELECTRIC DIAGRAM	SERIAL NUMBER	CHECKED	REV. 0 / DATE 05/04/2002	TOTAL SHEETS 8	

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	CODICE *PART NUMBER*
K01	2T0058
K02	2T0058
K03	2T0058
K04	2T0058
K05	2T0058
K06	2T0058
K07	2T0058
K08	2T0058
K09	2T0058
K10	2T0058
K11	2T0058
K12	2T0058
K13	–
K14	2899908
K15	2899908

FUSIBILE *FUSE*	CODICE *PART NUMBER*
4 A	2080.010.0001
5 A	2080.010.0002
7.5 A	2080.010.0003
10 A	2080.010.0004
15 A	2080.010.0005
SPIA *WARNING L*	2080.020.0002

REV.	DATE	MODIFIED OBJECT	SIGN

DENOMINATION: ELECTRIC DIAGRAM

FANTUZZI REGGIANE

TRUCK/SYSTEM: ELECTRIC BOX

SERIAL NUMBER | CLIENT REF.

DESIGNER: ing. E. PLIZZA

CHECKED

DRAW No FILE: CASS POTENZA

DATE: 21/3/2001

SCALE: –

SHEET: 1 | NEXT: 2

TOTAL SHEETS: 2

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RELE LIST

SIM	FUNCTION
K01	REVERSE INCHING
K02	FORWARD INCHING
K03	DRIVING BEAMS
K04	TRAFFIC BEAMS
K05	WORKING BEAMS
K06	REVERSE MOTION BEAMS
K07	NEUTRAL
K08	STOP LIGHTS
K09	WORKING BEAMS
K10	WORKING BEAMS
K11	HYDRAULIC OIL E. F.
K12	PREHEATING
K13	DISPOSABLE
K14	STARTER
K15	DUTIES
D01	INTERMITTENCE

FUSE LIST

SIM	FUNCTION	AMPERE
F01	INSTRUMENTS AND PILOT LIGHTS	10 A
F02	ELECTRO-FAN SWITCH WORKING LIGHTS SWITCH	10 A
F03	SPREADER PILOT LIGHTS BY-PASS KEY SWITCH PILOT LIGHTS	10 A
F04	DEFROSTER SWITCH	10 A
F05	SPREADER	15 A
F06	TOP WINDSCREEN WIPER SWITCH	10 A
F07	FRONT WINDSCREEN WIPER SWITCH WIND SHIELD WASHER	10 A
F08	PARKING BRAKE SWITCH	10 A
F09	BEAMS AND TURN LIGHTS SWITCH	10 A
F10	GEARSHIFT	10 A
F11	INTERMITTENCE HOUR COUNTER	5 A
F12	CABIN	10 A
F13	ENGINE STOP	10 A
F14	DIFFERENTIAL OIL THERMO-SWITCH HYDRAULIC OIL THERMO-SWITCH	5 A
F15	AIR-CONDITIONER	15 A
F16	JOYSTICK	10 A
F17	REAR WINDSCREEN WIPER SWITCH	10 A
F18	REVERSE MOTION BEAMS	10 A
F19	DRIVING BEAMS	10 A
F20	TRAFFIC BEAMS	10 A
F21	STANDING LIGHTS	10 A
F22	PARKING BRAKE PRESSURE-SWITCH	10 A
F23	STOP LIGHTS	10 A
F24	WORKING BEAMS	10 A
F25	WORKING BEAMS	10 A
F26	WORKING BEAMS	10 A
F27	HYDRAULIC OIL E. F.	15 A
F28	HYDRAULIC OIL E. F.	15 A

REV.	DATE	MODIFIED OBJECT	SIGN

DENOMINATION: ELECTRIC DIAGRAM

FANTUZZI–REGGIANE S.p.a.
42041 LENTIGIONE (RE) ITALY

TRUCK/SYSTEM

SERIAL NUMBER | CLIENT REF.

DESIGNER: A. SALSI

CHECKED

DRAW No
FILE: ELETBOX2

DATE: 12/07/2001

SCALE: –

SHEET: 2 | NEXT

TOTAL SHEETS: 2

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PIN	COL.	mm2	FUNCTION
01	BU	0.5	PARKING LIGHT
02	BU	0.5	PARKING LIGHT
03	BU/BK	0.5	PARKING LIGHT
04	BU/BK	0.5	PARKING LIGHT
05	GN/BK	1	DRIVING BEAM
06	GN/BK	1	DRIVING BEAM
07	GY/BK	1	DIPPED BEAM
08	GY/BK	1	DIPPED BEAM
09	RD	1	FAN BUTTON POSITIVE
			WORKING BEAMS BUTTON POSITIVE
10	RD	1.5	DEFROSTER BUTTON POSITIVE
11	WH/RD	0.5	DUTIES RELAY COMMAND
12	WH/BK	1	REVERSE MOTION BEAM
13	WH/BK	1	REVERSE MOTION BEAM
14	GY/RD	0.5	INCHING
15	RD/BK	0.5	WORKING BEAMS RELAY COMMAND
16	GY/BK	0.5	DIPPED BEAMS RELAY COMMAND
17	GN/BK	0.5	DRIVING BEAMS RELAY COMMAND
18	BU	0.5	STARTER RELAY COMMAND
19	GY/YL	0.5	STOP LIGHT
20	GY/YL	0.5	STOP LIGHT
21	YL/RD	1	INTERMITTENCE
			FORWARD GEAR FROM EGS
23	GN	1	FAN 1
24	GN	1	FAN 2
25	GY/YL	0.5	STOP LIGHT RELAY COMMAND
26	GN	1	FAN 3
27	GN	1	FAN 4
28	BU	0.5	FORWARD GEAR
29	BR	0.5	REVERSE GEAR
30	RD	1.5	PARKING BRAKE BUTTON POSITIVE
31	BR	0.5	REVERSE GEAR FROM EGS
32	BU	1	PARKING LIGHTS COMMAND FROM DASHBOARD
33	BR	0.5	GLOW PLUG RELAY COMMAND
34	RD	1.5	ENGINE STOP
35			

PIN	COL.	mm2	FUNCTION
36	RD/BK	1	WORKING BEAM
37	RD	1.5	TURN IDNDICATOR LIGHTS POSITIVE
38	RD	0.5	HYDRAULIC OIL THERMOSTAT SIGNAL
39			HYDRAULIC OIL THERMOSTAT POSITIVE
40	PK	0.5	NEUTRAL GEAR SIGNAL FROM EGS
41	PK/BK	0.5	NEUTRAL GEAR PILOT LIGHT
42	RD	1.5	GEARSHIFT POSITIVE
43			STOP LIGHTSPRESSURE SWITCH POSITIVE
44	YL/BK	0.5	TURN INDICATORS PILOT LIGHTS
45	RD	1.5	JOYSTICK POSITIVE
46			
47			
48	RD	1.5	SPREADER POSITIVE
49	RD	1.5	FRONT WIND SCREEN WIPER POSITIVE
			WINDSCREEN WASHER PUMP POSITIVE
50	RD/BK	1	WORKING BEAM
51	RD/BK	1	WORKING BEAM
52	RD/BK	1	WORKING BEAM
53	RD/BK	1	WORKING BEAM
54	RD/BK	1	WORKING BEAM
55	RD/BK	1	WORKING BEAM
56	RD/BK	1	WORKING BEAM
57	RD	1.5	CABIN POSITIVE
58	BU	2.5	AIR CONDITIONED SYSTEM POSITIVE
59			
60			
61			
62			
63	RD	1.5	REAR WINDSCREEN WIPER POSITIVE
64	RD	1	INSTRUMENTS POSITIVE
65	RD	1.5	UPPER WINDSCREEN WIPER POSITIVE
66	RD	1	SPREADER BY-PASS KEY POSITIVE
67			
68	BK	1	GND
69	BK	1	GND
70	BK	1	GND

REV.	DATE	MODIFIED OBJECT	SIGN

DENOMINATION: ELECTRIC DIAGRAM

FANTUZZI–REGGIANE S.p.a.
42041 LENTIGIONE (RE) ITALY

TRUCK/SYSTEM: ELECTRIC BOX PLUG
SERIAL NUMBER:
CLIENT REF.:

DESIGNER: A. SALSI
CHECKED:

DRAW No
FILE: X2LIST
DATE: 26/04/2001
SCALE: –

SHEET: 1
NEXT
TOTAL SHEETS: 1

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PIN	COL.	mm2	FUNCTION
01	WH	1	HORN COMMAND
02	GN/BK	0.5	DRIVING BEAMS COMMAND
03	RD	1.5	HORN POSITIVE
04	GY/BK	0.5	DRIVING BEAMS COMMAND
05	YL/GN	1	LEFT TURN INDICATOR COMMAND
06	YL	1	RIGHT TURN INDICATOR COMMAND
07	RD/YL	1	COMMON TURN INDICATOR LEVER
08	BU	1	PARKING BEAMS
09	VL	1	POSITIVE FROM RMH
10	GY/BU	0.5	ANTI-INVERSION SIGNAL
11	WH/GN	0.5	ANTI-INVERSION SIGNAL
12	PK	0.5	NEUTRAL GEAR SIGNAL
13	BK	1.5	EGS GND
14	RD	1.5	EGS POSITIVE
15	BU	0.5	FORWARD GEAR
16	BR	0.5	BACKWARD GEAR
17	BK	0.5	2ND GEAR
18	GY	0.5	3RD GEAR
19	WH	0.5	4TH GEAR
20	VL/BK	1	PARKING BRAKE S. V.
21	RD	1.5	PARKING BRAKE BUTTON POSITIVE
22	VL/WH	1	2ND SPEED AIR COND. SYSTEM
23	VL/WH	1	1ST SPEED AIR COND. SYSTEM
24	RD	1.5	AIR COND. SYSTEM BUTTOM POSITIVE WORKING BEAMS BUTTON POSITIVE
25	RD/BK	0.5	WORKING BEAMS COMMAND
26	RD	1.5	DEFROSTRER BUTTON POSITIVE
27	BU	1	DEFROSTER COMMAND
28	RD	1.5	REAR WINDSCREEN WIPER BUTTON POS.
29	GN/OR	1	REAR WINDSCREEN WIPER COMMAND
30	RD	1.5	UPPER WINDSCREEN WIPER BUTTON POS.
31	YL/BK	1	UPPER WINDSCREEN WIPER COMMAND
32	RD	1.5	FRONT WINDSCREEN WIPER BUTTON POS. WINDSCREEN WASHER PUMP POSITIVE
33	BU/YL	1	FRONT WINDSCREEN WIPER COMMAND
34	WH/YL	0.5	WINDSCREEN WASHER PUMP COMMAND
35	VL/BK	0.5	PARKING BRAKE PRESSURE SWITCH SIGNAL

PIN	COL.	mm2	FUNCTION
36	BU/RD	0.5	TRANSMISSION OIL TEMPERATURE SIGNAL
37	VL	0.5	FUEL LEVEL SIGNAL
38	RD	0.5	INSTRUMENTS PANELS AND PILOT LIGHTS POS.
39	BK	0.5	INSTRUMENTS PANELS AND PILOT LIGHTS GND
40	RD	1	SWITCHES PILOT LIGHTS POSITIVE
41	BK	1	PARKING BRAKE PILOT LIGHT GND BY-PASS KEY GND
42	BK	0.5	SWITCHES PILOT LIGHTS GND
43	PK/BK		NEUTRAL GEAR SIGNAL (P. L.)
44	WH/RD	0.5	ALTERNATOR SIGNAL (PILOT LIGHT)
45	BR	0.5	BRAKE OIL PRESSURE SWITCH SIGNAL (P. L.)
46	OR	0.5	AVAILABLE
47	OR	0.5	AVAILABLE
48	GY	0.5	ENGINE OIL PRESSURE SWITCH SIGNAL (P. L.)
49	YL/RD	1	DIFFERENTIABLOCK SENSOR SIGNAL
50	OR	0.5	AVAILABLE PILOT LIGHT
51	WH/GN	0.5	AIR FILTER CLOGGED SENSOR SIGNAL (P. L.)
52	YL/BK	0.5	INTERMITTANCE SIGNAL (P. L.)
53	WH/GN	0.5	GEARBOX OIL PRESSURE SWITCH SIGNA (P. L.)
54	WH	1	BY-PASS SIGNAL
55	GN	0.5	ENGINE WATER TEMPERATURE SIGNAL
56	WH	0.5	SEATED SIGNAL (YELLOW P. L.)
57	RD	0.5	UNLOCKED SIGNAL (GREEN P. L.)
58	BU	0.5	LOCKED SIGNAL (RED P. L.)
59	BR	1	GLOW PLUG COMMAND
60	BU	1	STARTER COMMAND
61	WH/RD	1	DUTIES RELAY COMMAND
62	RD	2.5	STARTER KEY POSITIVE
63			
64			
65			
66			
67			
68			
69			
70			

REV.	DATE	MODIFIED OBJECT	SIGN

DENOMINATION: ELECTRIC DIAGRAM

FANTUZZI-REGGIANE S.p.a.
42041 LENTIGIONE (RE) ITALY

TRUCK/SYSTEM: DASHBOARD PLUG
SERIAL NUMBER:
CLIENT REF.:

DESIGNER: A. SALSI
CHECKED:

DRAW No
FILE: X1LIST
DATE: 26/04/2001
SCALE: -

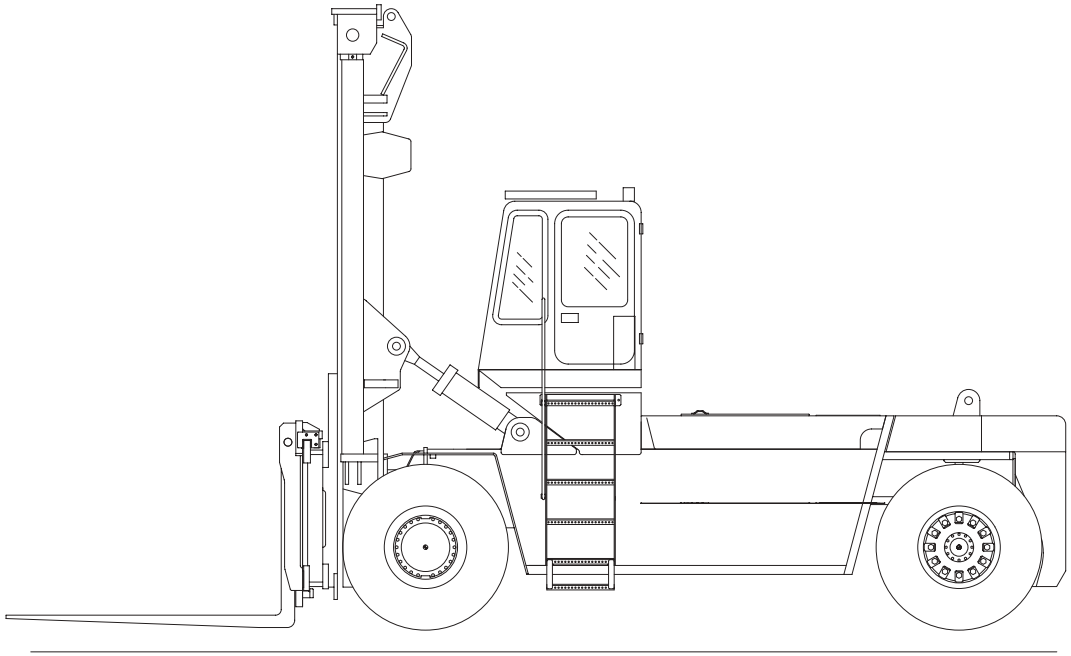
SHEET: 1
NEXT
TOTAL SHEETS: 1

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FANTUZZI
REGGIANE

CATALOGO PARTI DI RICAMBIO - SPARE PARTS -
PIECES DE RECHANGE - ERSATZTEILE - PIEZAS DE REPUESTO

FDC 160/1200



N° MATRICOLA - SERIAL NUMBER
N. MATRICULE - SERIENNUMMER - N. DE MATRICULA

102054

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AVVERTENZA

Le illustrazioni, i codici e le denominazioni riportate su questo catalogo non sono impegnative; ferme restando le caratteristiche di funzionamento e di intercambiabilità dei pezzi, la Ditta costruttrice si riserva di apportare in qualunque momento e senza preavviso le modifiche che l'evoluzione tecnica o le esigenze commerciali rendessero necessarie.

CONSULTAZIONE DEL CATALOGO

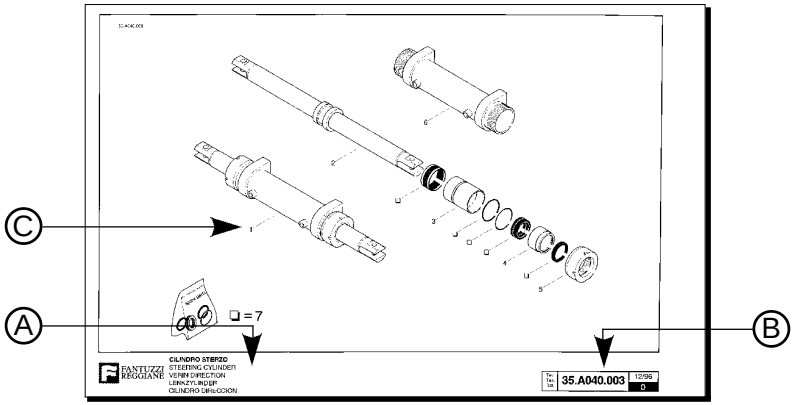
Il catalogo pezzi di ricambio è composto da tavole illustrate e da corrispondenti tavole di nomenclatura

• Ogni tavola illustrata è dotata di un margine inferiore sul quale si leggono :

A - la denominazione della tavola

B - il numero di tavola

C - i numeri di riferimento dei componenti



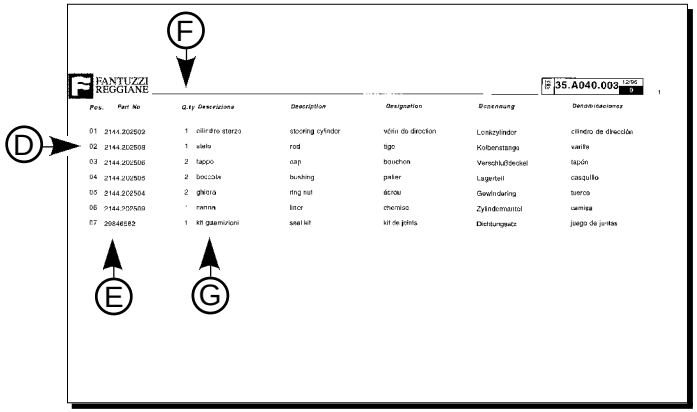
• Ogni tavola di nomenclatura, il cui numero di identificazione è riportato in alto a destra, è divisa in colonne che contengono:

D - POS. = numero di riferimento sulla tavola illustrata

E - CODICE = numero di codice del pezzo rappresentato

F - QT = quantità dei pezzi nel gruppo rappresentato

G - DENOMINAZIONE = denominazione dei pezzi



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NOTICE

The illustrations, codes and names given in this catalogue are not binding: without altering the operating characteristics or the interchangeability of the parts, the Company reserves the right, at any time and without prior notice, to make any modifications deemed necessary in relation to technological developments or commercial requirements.

CONSULTING THE CATALOGUE

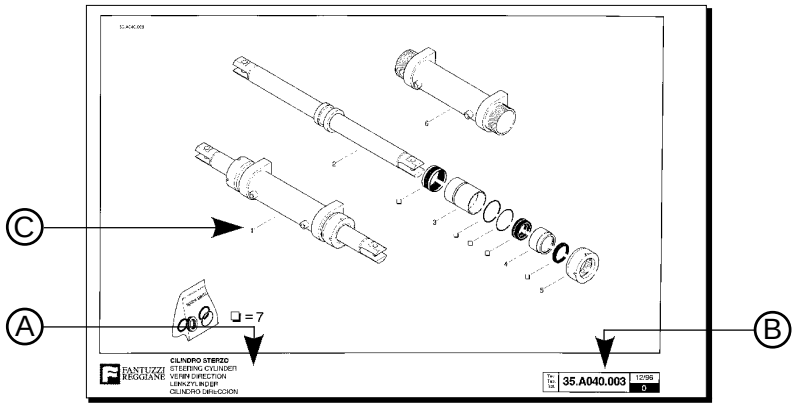
The prices catalogue consists of illustrations and corresponding tables with names.

• Each illustrated table has a lower margin containing the following information:

A - the name of the table

B - the number of the table

C - the reference numbers of the components



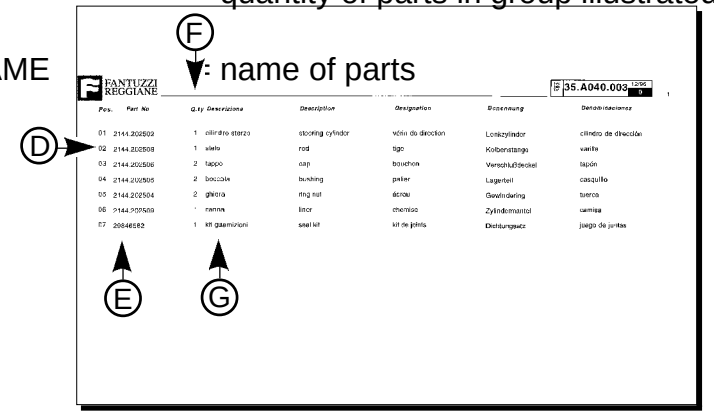
• Each name table, with the number given high on the right, is divided into columns containing the following information:

D - POS. = reference number in illustration

E - CODE = code number of illustrated part

F - QT = quantity of parts in group illustrated

G - NAME = name of parts



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AVERTISSEMENT

Les illustrations, les codes et les dénominations figurant dans ce catalogue sont fournis à titre indicatif et ne nous engagent en aucun cas; à part les caractéristiques de fonctionnement et d'interchangeabilité des pièces, le Constructeur se réserve le droit d'apporter, à tout moment et sans préavis, les modifications que l'évolution technique ou les exigences commerciales impliques nécessairement.

COMMENT CONSULTER LE CATALOGUE

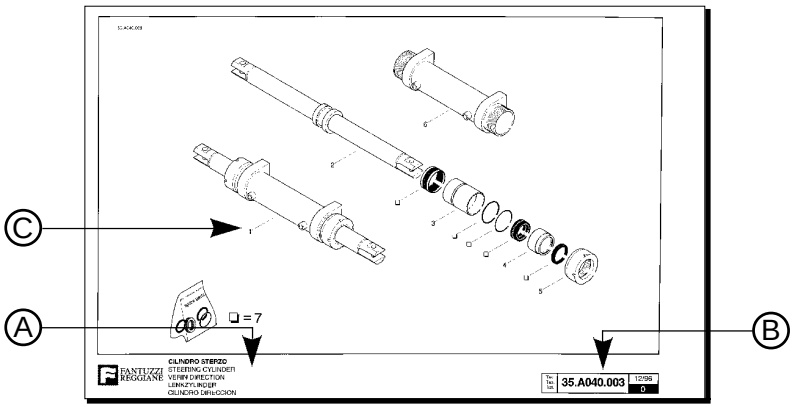
Le catalogue pièces détachées se compose de vues éclatées et de tableaux de la nomenclature

• Chaque vue éclatée comprend une marge inférieure dans laquelle on trouve:

A - le nom de la vue

B - le numéro de la vue

C - les numéros de référence des pièces



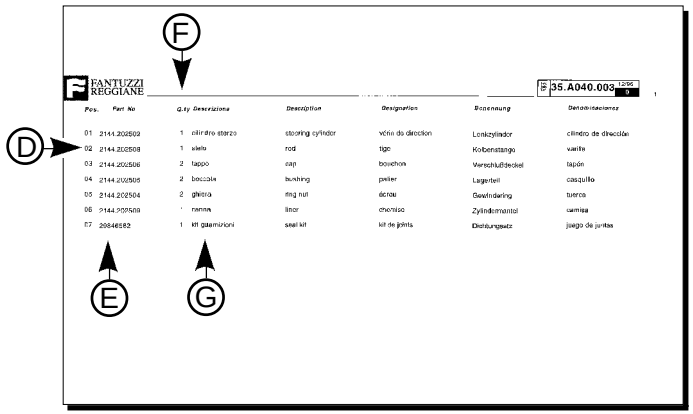
• Chaque tableau de la nomenclature, dont le numéro d'identification se trouve en haut à droite, est divisé en colonnes où l'on trouve:

D - Pos. = le numéro de référence sur la vue éclatée

E - CODE = le numéro de code de la pièce représentée

F - QT = la quantité de pièces dans le groupe représenté

G - DENOMINATION = le nom des pièces



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HINWEISE

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NACHSCHLAGHILFE

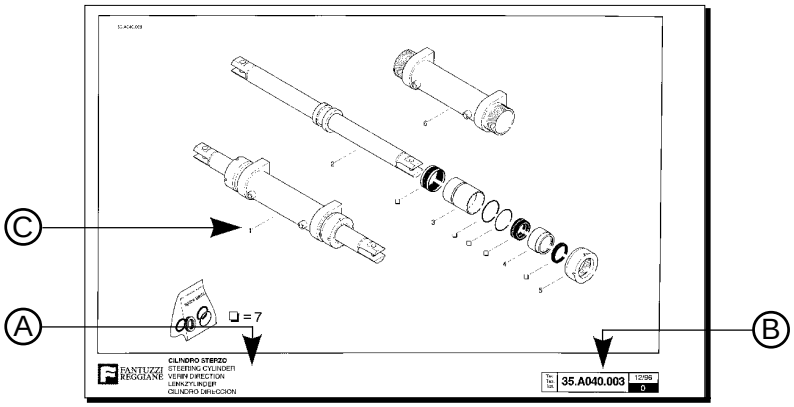
Der Ersatzteilkatalog ist in Bild- und Textübersichten gegliedert

• Am unteren Rand jeder Bildübersicht finden Sie:

A - Bezeichnung der Übersicht

B - Nummer der Übersicht

C - Position der Teile



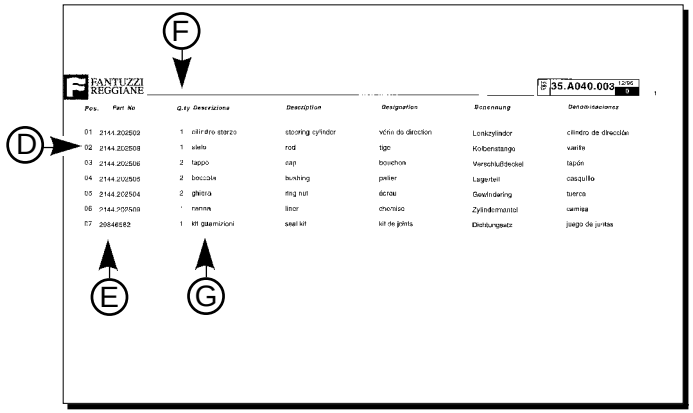
• Jede Textübersicht, die ID-Nummer ist am oberen Rand rechts vermerkt, zeigt Spaltenformat mit:

D - POS = Position auf der Bildübersicht

E - CODE = Code des abgebildeten Teils

F - QT = Mengenangabe der Teile

G - BEZEICHNUNG = Teilebezeichnung



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ADVERTENCIA

Las ilustraciones, los códigos y las denominaciones indicadas en este catálogo no comprometen al Fabricante que, manteniendo las características de funcionamiento y la posibilidad de intercambio de las piezas, se reserva el derecho de aportar, en cualquier momento y sin previo aviso, las modificaciones necesarias debidas a motivos técnicos o exigencias comerciales.

CONSULTA DEL CATALOGO

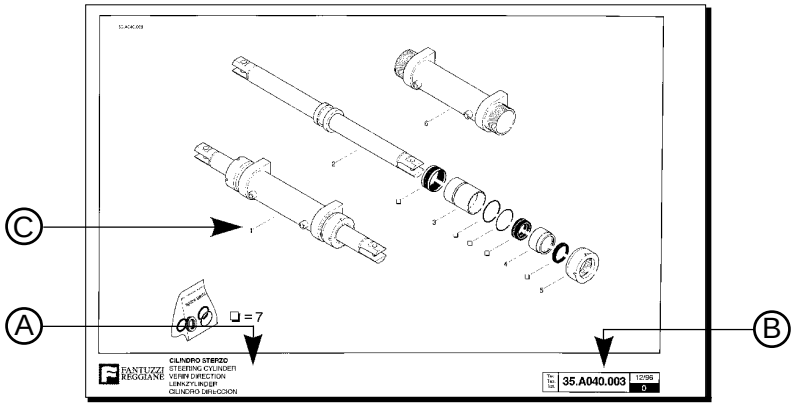
El catálogo de las piezas de recambio está formado por ilustraciones y por las correspondientes tablas con la nomenclatura.

• Cada tabla ilustrada presenta un margen inferior en el cual se indica:

A - la denominación de la tabla ilustrada

B - el número de la tabla ilustrada

C - los números de referencia de los componentes



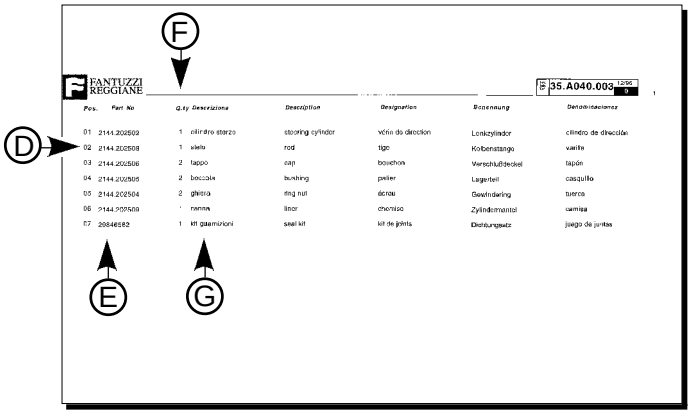
• Cada tabla de nomenclatura, cuyo número de identificación se facilita en la parte superior derecha, se divide en columnas que indican:

D - POS. = número de referencia en la tabla ilustrada

E - CODIGO = número de código de la pieza representada

F - CANT. = cantidad de piezas que hay en el grupo representado

G - DENOMINACION = denominación de las piezas



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INDICAZIONI PER LE ORDINAZIONI

Le ordinazioni dei pezzi di ricambio devono essere corredate dalle seguenti indicazioni:

• Tipo e numero di matricola della macchina

• Numero di codice Ⓔ e denominazione Ⓖ dei pezzi

• Quantità richiesta di ogni pezzo



Qualora non siano rappresentati i numeri di codice dei particolari, indicare nell'ordine il numero della tavola Ⓑ ed il numero di riferimento Ⓒ

La Ditta costruttrice declina ogni responsabilità per eventuali errori dovuti alla inosservanza delle presenti indicazioni.

INFORMATION TO BE GIVEN WITH ORDERS

When ordering replacement parts, please give the following information:

• Type and registration number of machine

• Code number Ⓔ a name of part Ⓖ

• Quantity of each part required



If the code numbers for the parts are not given, please give the number of the table Ⓑ and the reference number Ⓒ when making the order.

The Manufacturers decline all responsibility for any errors resulting from the non observance of these instructions.

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INFORMATIONS A RAPPELER POUR TOUTE COMMANDE DE PIECES DETACHEES

Les commandes de pièces détachées doivent comprendre les informations suivantes:

• Type et numéro de série de la machine

• Numéro de code Ⓔ et le nom Ⓖ des pièces

• Quantité commandée pour chaque pièce



Si les numéros de code des pièces ne figurent pas, indiquer sur la commande le numéro du tableau Ⓑ et de référence Ⓒ

Le Constructeur décline toute responsabilité pour d'éventuelles erreurs résultant d'un manque d'informations.

BESTELLBEZEICHNUNG

In der Bestellbezeichnung von Ersatzteilen sind folgende Angaben erforderlich:

• Modell und Sachnummer der Maschine

• Code Ⓔ und Bezeichnung Ⓖ der Teile

• Menge pro Teil.



Ohne Code aufgeführte Teile sind bei der Bestellung ersatzweise durch die Nummer der Übersicht Ⓑ und die entsprechende Position Ⓒ zu bezeichnen.

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INSTRUCCIONES PARA EFECTUAR PEDIDOS

Al efectuar los pedidos de las piezas de recambio, hay que proporcionar las siguientes indicaciones:

• Tipo de máquina y correspondiente número de matrícula.

• Número de código Ⓔ y denominación Ⓖ de las piezas.

• Cantidad pedida de cada pieza.



Si no se facilitan los números de los códigos de las piezas, en el pedido hay que indicar el número de la tabla ilustrada Ⓑ y el número de referencia Ⓒ

El fabricante declina cualquier responsabilidad por posibles errores debidos al incumplimiento de las presentes instrucciones.

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M.19.04

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Tipo Carrello
Typ du Chariot
Truck Type
Typen des Staplers

Numero Matricola
Numéro de Serie
Serial Number
Seriennummer

MODULO RICHIESTA PARTI DI RICAMBIO E CONFERMA D'ORDINE
FORMULAIRE DE DEMANDE DE PIECES ET ACCUSE DE RECEPTION DE COMMANDE
SPARE PARTS PURCHASING AND ORDER CONFIRMATION FORM
ERSATZTEIL BESTELLUNGS UND BESTÄTIGUNGSSCHEIN

Ordine Nr.
Commande Nr.
Order Nr.
Bestellnummer

Ditta
Client
Client
Kunde

Destinazione
Adresse de Livraison
Delivery address
Lieferungsaddresse

Elenco Parti di Ricambio - Liste des Pièces - Spare Parts List - Ersatzteilliste

Pos./Part Number	Nr. Gr.	Descrizione-Designation-Description-Benennung	Qty	PRICE	AVAILABILITY

Delivery Terms: Stock | A.S.A.P. | Partial Deliveries Allowed | V.O.R.

Shipment by: DHL | AIR FREIGHT | SEA | ROAD | CLIENT FORWANDER

Name client forwarder

Date

Signature

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01.A070.063 **DISPOSIZIONE TARGHETTE**
NAME PLATE LAYOUT
DISPOSITIONS PLAQUETTES
ANORDNUNG DER SCHILDER
DISPOSICIÓN DE LAS PLACA

05.A010.029 **ZAVORRA**
COUNTERWEIGHT
CONTREPOIDS
GEGENWICHT
LASTRE

05.A010.067 **COFANO MOTORE**
BONNET
CAPOT MOTEUR
MOTORHAUBE
CAPOT MOTOR

10.A010.003 **RIDUTTORE TRASMISSIONE**
TRANSMISSION REDUCTION UNIT
REDUCTEUR DE TRANSMISSION
UNTERSETZUNGSGETRIEBE ÜBERTRAGUNG
REDUCTOR DE TRANSMISION

15.A010.047 **PIASTRA PORTAFORCHE**
FORK PLATE
PLAQUE PORTEFOURCHES
HEBER DER GABELTRAEGERPLATT
PLACA

15.B010.037 **SOLLEVATORE MOBILE**
MOBILE LIFT UNIT
ELEVATOR MONTANT MOBILE
BEWEGLICHE HUB-VORRICHTUNG
ELEVADOR MUEBLE

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15.C010.044 **SOLLEVATORE FISSO**
FIXED LIFT UNIT
RELEVAGE FIXE
FESTE HUBVORRICHTUNG
ELEVADOR FIJO

25.A010.019 **COMPONENTI PONTE STERZANTE**
STEERING AXLE COMPONENTS
COMPOSANTS DU PONT DE DIRECTION
KOMPONENTEN LENKBRÜCKE
COMPONENTES DEL PUESTE DE LA DIRECCION

25.A010.020 **FUSELLO A SNODO**
STEERING KNUCKLE
FUSÉE ARTICULÉE
GELENK-ACHSZAPFEN
MAMANGUETA ARTICULADA

25.B010.012 **MOZZO RUOTA**
HUBA
MOYEUROUE
NABE
CUBO

30.A010.037 **COMPONENTI PONTE FISSO**
FIXED AXLE COMPONENTS
COMPOSANTS DU PONT FIXE
KOMPONENTEN FESTE BRÜCKE
COMPONENTES DEL PUENTE FIJO

30.B010.009 **MOZZO RUOTA**
HUBA
MOYEUROUE
NABE
CUBO

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30.B010.029 **MOZZO RUOTA**
HUBA
MOYEUROUE
NABE
CUBO

30.C010.024 **DIFFERENZIALE**
DIFFERENTIAL AXLE
PONT DIFFERENTIEL
DIFFERENTIAL
DIFERENCIAL

30.D010.009 **GRUPPO FRENO**
BRAKE ASSY
GROUPE FREINA
BREMSEN GRUPPE
FRENO

30.D020.002 **FRENO A MANO**
HANDBRAKE
FREIN A MAIN
HANDBREMSE
FRENO DE MANO

30.D020.015 **FRENO A MANO**
HANDBRAKE
FREIN A MAIN
HANDBREMSE
FRENO DE MANO

30.G010.095 **RUOTE ANTERIORI**
FRONT WHEELS
ROUES AVANT
VORDERRADER
RUEDA ANTERIORI

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30.G010.096 **RUOTE POSTERIORI**
REAR WHEELS
ROUES ARRIER
HINTERRADER
RUEDA POSTERIOR

35.A001.037 **PARTICOLARI IDRAULICI SU TELAIO**
HYDRAULIC COMPONENTS ON FRAME
PIECES HYDRAULIQUES SUR CHASSIS
HYDRAULIKTEILE AUF RAHMEN
PIEZAS HIDRAULICAS DEL CHASIS

35.A010.094 **CILINDRO SOLLEVAMENTO**
LIFTING CYLINDER
VÉRIN DE LEVAGE
HUBZYLINDER
CILINDRO DE ELEVACIÓ

35.A020.020 **CILINDRO DI BRANDEGGIO**
TYLTING CYLINDER
VERIN D' INCLINATION
SCHWENKZYLINDER
CILINDRO DE MANIOBRA DEL BRAZO

35.A040.019 **CILINDRO STERZO**
STEERING CYLINDER
VERIN DE DIRECTION
LENKZYLINDER
CILINDRO DE DIRECCION

35.A070.003 **CILINDRO TRASLAZIONE**
TRANSLATION CYLINDER
VERIN DE TRANSLATION
FAHRTZYLINDER
CILINDRO DE TRASLACION

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35.A155.001 **CILINDRO INCLINAZIONE CABINA**
CABIN INCLINATION CYLINDER
VERIN D'INCLINAISON CABINE
NEIGEZYLINDER DER KABINE
CILINDRO DE INCLINACION DE LA CABINA

35.A180.017 **DISTRIBUTORE**
DISTRIBUTOR
DISTRIBUTEUR
VERTEILER
DISTRIBUIDOR

35.A182.006 **VALVOLA REGOLATRICE DI FLUSSO**
FLOW CONTROL VALVE
SOUPAPE RÉGULATRICE DÉBIT
STROMREGELVENTIL
VÁLVULA DE REGULACIÓN DEL FLUJO

35.A192.002 **POMPA IDRAULICA**
HYDRAULIC PUMP
POMPE HYDRAULIQUE
HYDRAULISCHER PUMPE
BOMBA HIDRAULICA

35.A194.003 **FILTRO OLIO**
OIL-BATH AIR FILTER
FILTRE À AIR À BAIN D'H.
ÖLBADLUFTFILTER
FILTRO AIRE EN BAÑO DE A.

35.A194.006 **FILTRO OLIO**
OIL-BATH AIR FILTER
FILTRE À AIR À BAIN D'H.
ÖLBADLUFTFILTER
FILTRO AIRE EN BAÑO DE A.

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35.A195.003 **RADIATORE**
COOLER
RADIATEUR
KÜHLER
RADIADOR

35.A195.011 **SCAMBIATORE**
EXCHANGER
ÉCHANGEUR
KÜHLER
CAMBIADOR

35.A196.003 **SFIATO**
BREATHER PIPE
RENIFLARD
ENTLUFTER
RESPIRADERO

35.A200.031 **SERBATOIO OLIO IDRAULICO**
HYDRAULIC OIL TANK
RESERVOIR HUILE HYDRAULIQUE
HYDRAULIKÖLBEHÄLTER
DEPOSITO ACEITE HIDRAULICO

40.A010.001 **PEDALE FRENO**
BRAKE PEDAL
PÉDALE DE FREIN
BREMSPEDAL
PEDAL DEL FRENO

40.A020.001 **RINVIO PEDALI FRENO**
BRAKE PEDALS TRANSMISSION
RENVOI PÉDALES FREIN
VORGELEGE BREMSPEDALE
TRANSMISIÓN PEDALES DE FRENO

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45.A001.032 **IMPIANTO ELETTRICO (ACCESSORI)**
ELECTRIC SYSTEM (ACCESSORIES)
INSTALLATION ELECTRIQUE (ACCESSOIRES)
SCHALTBILD (ZUBEHÖR)
INSTALACION ELECTRICA (ACCESORIOS)

45.A001.035 **IMPIANTO ELETTRICO (ACCESSORI)**
ELECTRIC SYSTEM (ACCESSORIES)
INSTALLATION ELECTRIQUE (ACCESSOIRES)
SCHALTBILD (ZUBEHÖR)
INSTALACION ELECTRICA (ACCESORIOS)

45.D010.003 **COMANDO CAMBIO**
GEAR CONTROL
COMMANDE BOÎTE/VITES.
GETRIEBESCHALTUNG
MANDO DEL CAMBIO

50.C010.016 **CABINA (VETRI E GUARNIZIONI)**
CAB (WINDOWS AND SEALS)
CABINE (VITRES ET JOINTS)
KABINE (SCHEIBEN UND DICHTUNGEN)
CABINA (VIDRIOS Y GUARNICIONES)

50.E020.006 **GRUPPO EVAPORATORE**
COOLER UNIT
ENSEMBLE ÉVAPORATEUR
VERDAMPFER GRUPPE
GRUPO VAPORIZADOR

50.F010.056 **CABINA (QUADRO COMANDI E ACCESSORI)**
CAB (CONTROL PANEL AND ACCESSORIES)
CABINE (TABLEAU DE COMMANDE ET ACCESSOIRES)
KABINE (SCHALTTAFEL UND ZUBEHÖR)
CABINA (TABLERO DE MANDO Y ACCESORIOS)

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50.F020.004 **QUADRO COMANDI**
CONTROL PANEL
TABLEAU DE COMMANDE
SCHALTTAFEL
TABLERO DE MANDO

50.G012.001 **CILINDRO INCLINAZIONE CABINA**
CABIN INCLINATION CYLINDER
VERIN D'INCLINAISON CABINE
NEIGEZYLINDER DER KABINE
CILINDRO DE INCLINACION DE LA CABINA

70.A010.014 **SUPPORTI MOTORE E TRASMISSIONE**
MOTOR AND TRANSMISSION SUPPORTS
SUPPORTS MOTEUR ET TRANSMISSION
MOTOR- UND GETRIEBESTÄNDER
SOPORTES DE MOTOR Y TRANSMISIÓN

70.A010.040 **SONDE CONTROLLO PRESSIONE E TEMPERATURE**
PRESSURE AND TEMPERATURE CONTROL PROBES
SONDES CONTRÔLE PRESSION ET TEMPÉRATURES
DRUCK- UND TEMPERATURKONTROLLSONDEN
SONDAS CONTROL DE PRESIÓN Y TEMPERATURA

70.A010.069 **ACCOPPIAMENTO MOTORE CAMBIO**
MOTOR GEAR COUPLING
COUPLEMENT MOTEUR BOÎTE DE VITESSE
VERBINDUNG MOTOR/SCHALTGETRIEBE
ACOPLAMIENTO MOTOR CAMBIO

70.B010.014 **FILTRO ARIA**
AIR CLEANER
FILTRE A AIR
LUFTFILTER
FILTRO DEL AIRE

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70.D010.076 **RADIATORE**
COOLER
RADIATEUR
KÜHLER
RADIADOR

70.E010.004 **ACCELERATORE**
ACCELERATOR
ACCÉLÉRATEUR
BESCHLEUNIGER
ACELERADOR

70.F010.042 **SERBATOIO COMBUSTIBILE**
FUEL TANK
RESERVOIR COMBUSTIBLE
KRAFTSTOFFTANK
DEPOSITO COMBUSTIBLE

75.C012.001 **CAMBIO**
GEARBOX
BOÎTE DE VITESSES
SCHALTGETRIEBE
CAJA DE VELOCIDADES

75.C012.002 **ASSIEME CARTER TRASMISSIONE**
TRANSMISSION CARTER
ENSEMBLE CARTER DE LA TRANSMISSION
CARTER ANTRIEB GRUPPE
CONJUNTO CÁRTER TRANSMISION

75.C012.003 **ASSIEME CARTER TRASMISSIONE**
TRANSMISSION CARTER
ENSEMBLE CARTER DE LA TRANSMISSION
CARTER ANTRIEB GRUPPE
CONJUNTO CÁRTER TRANSMISION

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75.C012.004 **ASSIEME GIRANTE**
TURNING ASSEMBLY
ENSEMBLE COURRONNE MOBILE
DREHENDE GRUPPE
CONJUNTO ROTOR

75.C012.005 **GRUPPO TURBINA**
TURBINE ASSEMBLY
GROUPE DE LA TURBINE
TURBINE GRUPPE
GRUPO TURBINA

75.C012.006 **FLANGIA D'ACCOPPIAMENTO**
COUPLING FLANGE
BRIDE D'ACCOUPLEMENT
FLANSCHVERBINDUNG
BRIDA DE ACOPLAMIENTO

75.C012.007 **GRUPPO TRASCINAMENTO POMPA**
PUMP DRIVE ASSEMBLY
GROUPE TRAINEMENT DE LA POMPE
PUMPE SCHLUHBETRIEB GRUPPE
GRUPO DE ARRASTRE BOMBA

75.C012.008 **GRUPPO TRASCINAMENTO POMPA**
PUMP DRIVE ASSEMBLY
GROUPE TRAINEMENT DE LA POMPE
PUMPE SCHLUHBETRIEB GRUPPE
GRUPO DE ARRASTRE BOMBA

75.C012.009 **GRUPPO TRASCINAMENTO POMPA**
PUMP DRIVE ASSEMBLY
GROUPE TRAINEMENT DE LA POMPE
PUMPE SCHLUHBETRIEB GRUPPE
GRUPO DE ARRASTRE BOMBA

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75.C012.010 **GRUPPO FRIZIONI RIDOTTE**
LOW GEARS CLUTCH ASSEMBLY
GROUPE DE FRICTIONS RÉDUITS
UNTERGESETZTKUPPLUNG EINHEIT
GRUPO EMBRAGUES

75.C012.011 **GRUPPO INGRANAGGI RETROMARCIA**
REVERSE MOTION GEAR ASSEMBLY
GROUPE D'ENGRENAGES POUR LE RENVERSEMENT DE MARCHE
RÜCKLAUFRAD EINHEIT
GRUPO ENGRENAJE MARCHA ATRÁS

75.C012.012 **GRUPPO FRIZIONI 3ª VELOCITÀ**
3 SPEED CLUTCH ASSEMBLY
GROUPE DES FRICTIONS DE 3 VITESSE
DRITTE GESCHWINDIGKEIT KUPPLUNGSGRUPPE
GRUPO EMBRAGUES 3ª VELOCIDAD

75.C012.013 **GRUPPO FRIZIONI 3ª VELOCITÀ**
3 SPEED CLUTCH ASSEMBLY
GROUPE DES FRICTIONS DE 3 VITESSE
DRITTE GESCHWINDIGKEIT KUPPLUNGSGRUPPE
GRUPO EMBRAGUES 3ª VELOCIDAD

75.C012.014 **GRUPPO FRIZIONI MARCIA AVANTI**
FORWARD RUNNING CLUTCH ASSEMBLY
GROUPE DE FRICTIONS MARCHE EN AVANT
KUPPLUNGSGRUPPE VORWÄRTSGANG
GRUPO EMBRAGUES MARCHA HACIA ADELANTE

75.C012.015 **GRUPPO ALBERO DI USCITA**
OUTLET SHAFT ASSEMBLY
GROUPE D'ARBRE EN SORTIE
AUSGANGWELLE GRUPPE
GRUPO ÁRBOL DE SALIDA

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75.C012.016 **POMPA DI ALIMENTAZIONE CON REGOLATRICE DI PRESSIONE**
FEEDING PUMP WITH PRESSURE REGULATOR
POMPE DE ALIMENTATION AVEC RÉGULATEUR DE LA PRESSION
ZUFUHRPUMPE MIT DRUCKREGLER
BOMBA DE ALIMENTACION CON REGULADOR DE PRESION

75.C012.017 **ELETTRODISTRIBUTORE**
ELECTRODISTRIBUTOR
ÉLECTRODISTRIBUTEUR
ELEKTROVERTEILER
ELECTRODISTRIBUIDOR

75.C012.018 **CORPO DISTRIBUTORE**
DISTRIBUTOR HOUSING
CORPS DU DISTRIBUTEUR
VERTEILERKÖRPER
CUERPO DISTRIBUIDOR

75.C012.019 **CORPO DISTRIBUTORE**
DISTRIBUTOR HOUSING
CORPS DU DISTRIBUTEUR
VERTEILERKÖRPER
CUERPO DISTRIBUIDOR

80.A010.030 **ALBERO CARDANICO**
CARDAN SHAFT
ARBRE A CARDAN
GELENKWELLE
ARBOL CARDAN

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1I.208439	70.E010.004		1K.18.429.151	30.D020.002		1K.507258015	30.B010.009	
1I.210129	70.E010.004		1K.18.429.469	30.D020.002		1K.507270113	30.B010.029	
1I.216581	70.E010.004		1K.18.442.013	30.D020.002		1K.507275223	30.D010.009	
1K.1002.01.00	30.B010.029		1K.18.444.000	30.D020.002		1K.507275293	30.D010.009	
1K.106.060.15	30.C010.024		1K.18.458.036	30.D020.002		1K.507275494	30.D010.009	
1K.12.182.091	30.D020.002		1K.18.530.027	30.D020.002		1K.509.256.25	30.B010.009	
1K.12.303.003	30.D020.002		1K.335100800	30.D010.009		1K.509275632	30.D010.009	
1K.12.999.473	30.D020.002		1K.3351815012	30.D010.009		1K.509275821	30.D010.009	
1K.13.229.167	30.D020.002		1K.40.023.005	30.D020.015		1K.509275833	30.D010.009	
1K.13.230.075	30.D020.002		1K.507247024	30.B010.009		1K.51/134.1	30.C010.024	
1K.13.477.053	30.D020.002		1K.507249064	30.B010.009		1K.51/146.1	30.C010.024	
1K.13.701.070	30.D020.002		1K.5072502051	30.B010.009		1K.51.035.3	30.C010.024	
1K.16.200.141	30.D020.002		1K.507251183	30.B010.009		1K.51.1651.0	30.C010.024	
1K.16.200.152	30.D020.002		1K.507252102	30.B010.009		1K.51.3197.3	30.C010.024	
1K.17.665.107	30.D020.002		1K.507253103	30.B010.009		1K.51.921.3	30.C010.024	
1K.17.861.001	30.D020.002		1K.507254034	30.B010.009		1K.51.957.4	30.C010.024	

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1K.71.1670.2	30.C010.024		1K.81.7090.1	30.D020.015		2144.635001	35.A155.001	
1K.71.2702.4	30.C010.024		1K.VD257C	30.D010.009		2154.673507	35.A180.017	
1K.71.2935.4	30.C010.024		1V.5GD17Z1108	35.A180.017		216019015	25.B010.012	
1K.71.3378.2	30.C010.024		2008.010.0001	45.A001.032		2185.613502	35.A001.037	
1K.71.552.4	30.C010.024		2008.010.0001	45.A001.035		2185.674501	50.F010.056	
1K.71.783.5	30.C010.024		2009.020.0003	50.E020.006		2204.010.0037	35.A001.037	
1K.71.784.3	30.C010.024		2009.090.0173	50.E020.006		2204.633503	35.A001.037	
1K.71.785.2	30.C010.024		20351000063	35.A182.006		2204.673506	35.A192.002	
1K.71.786.2	30.C010.024		2037.714501	45.A001.032		2225.021.0002	35.A195.003	
1K.76.97H.24	30.D010.009		2037.714502	45.A001.032		2225.022.0003	35.A195.003	
1K.81.4854.2	30.B010.029		2037.714503	45.A001.032		2225.023.0003	35.A195.003	
1K.81.4908.4	30.B010.029		2037.714504	45.A001.032		2225.677003	70.D010.076	
1K.81.4934.4	30.B010.029		2055.010.0003	35.A195.003		2225.964001	35.A195.003	
1K.81.5341.3	30.D020.015		2055.740501	70.F010.042		2229.030.0001	25.A010.020	
1K.8154143.P2	30.B010.029		2056.714503	50.F020.004		2229.200.0012	35.A155.001	
1K.81.5424.1	30.B010.029		2080.010.0009	45.D010.003		2229.200.0013	35.A155.001	

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2229.715001	50.G012.001		2231.061.0001	01.A070.063		2266.243502	35.A180.017	
2231.011.0001	01.A070.063		2231.061.0002	01.A070.063		2266.743501	35.A180.017	
2231.011.0002	01.A070.063		2231.061.0003	01.A070.063		2266.963510	35.A001.037	
2231.019.0001	01.A070.063		2231.061.0004	01.A070.063		2292.010.0012	80.A010.030	
2231.019.0003	01.A070.063		2231.068.0001	01.A070.063		2294.152.0003	15.B010.037	
2231.019.0004	01.A070.063		2231.069.0001	01.A070.063		2294.159.0001	30.B010.029	
2231.021.0001	01.A070.063		2231.069.0003	01.A070.063		2294.160.0001	30.C010.024	
2231.021.0002	01.A070.063		2231.069.0006	01.A070.063		2299.010.0001	70.D010.076	
2231.029.0001	01.A070.063		2231.069.0007	01.A070.063		2299.010.0001	35.A195.011	
2231.029.0002	01.A070.063		2231.069.0008	01.A070.063		2299.637002	70.A010.014	
2231.029.0003	01.A070.063		2231.069.0009	01.A070.063		2302.000.0001	35.A001.037	
2231.029.0004	01.A070.063		2231.069.0010	01.A070.063		2302.883501	35.A001.037	
2231.041.0001	01.A070.063		2231.071.0002	01.A070.063		2307.632502	25.A010.019	
2231.051.0003	01.A070.063		2231.078.0001	01.A070.063		2308.080.0002	50.F010.056	
2231.051.0004	01.A070.063		2231.081.0001	01.A070.063		2325.010.0001	25.A010.019	
2231.060.0003	01.A070.063		2247.010.0003	70.A010.069		2333.051.0001	10.A010.003	

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2333.052.0003	30.B010.009		2375.030.0002	40.A020.001		2426.611504	15.B010.037	
2333.052.0003	30.B010.029		2375.031.0001	70.E010.004		2426.632501	25.A010.020	
2333.052.0005	30.D010.009		2375.031.0002	40.A020.001		2426.632502	25.B010.012	
2333.052.0007	30.C010.024		2378.040.0001	30.G010.095		2426.676001	15.B010.037	
2333.068.0002	30.D010.009		2378.040.0002	30.G010.096		2426.676001	15.C010.044	
2333.068.0003	30.D010.009		2410.010.0013	35.A200.031		2426.676001	15.A010.047	
2333.068.0004	30.B010.009		2420.734503	45.D010.003		2426.731502	15.B010.037	
2333.068.0005	30.B010.009		2426.040.0002	10.A010.003		2448.673004	30.A010.037	
2333.068.0005	30.B010.029		2426.055.0002	30.B010.009		2448.743005	30.G010.095	
2333.068.0007	30.C010.024		2426.060.0002	15.B010.037		245150003B027	15.C010.044	
2333.201502	15.B010.037		2426.070.0002	30.B010.029		2470.543502	35.A194.003	
2333.202506	25.A010.019		2426.070.0003	30.C010.024		2470.543503	35.A194.003	
2333.672503	15.B010.037		2426.070.0008	30.C010.024		2470.716001	70.B010.014	
2333.733502	35.A200.031		2426.070.0010	30.B010.029		2470.730501	70.F010.042	
2333.735002	50.F010.056		2426.120.0001	40.A020.001		2470.733501	35.A194.006	
2368.741502	15.B010.037		2426.160.0022	35.A020.020		2470.733502	35.A194.006	

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24V70WH3	45.A001.032		2582.141.0008	05.A010.029		2654.011.0007	35.A194.006	
2511.010.0094	35.A010.094		2582.141.0009	05.A010.029		2654.240504	70.F010.042	
2511.040.0001	25.A010.020		2582.141.0010	05.A010.029		2685.195.0003	35.A195.011	
2511.040.0023	35.A040.019		2582.282503	25.A010.019		2690.010.0095	35.A010.094	
2511.070.0007	35.A070.003		2582.671502	15.A010.047		2690.020.0013	35.A020.020	
2511.635001	35.A155.001		2582.671503	15.B010.037		2690.040.0014	35.A040.019	
2511.744001	40.A010.001		2582.671505	15.B010.037		2690.070.0005	35.A070.003	
2556.010.0013	05.A010.067		2582.741504	15.C010.044		2690.155.0001	35.A155.001	
2562.070.0005	70.A010.069		2583.020.0002	25.A010.020		2691.010.0044	35.A020.020	
2562.170.0001	35.A196.003		2640.070.0002	30.G010.095		2706.010.0027	35.A010.094	
2577.744003	40.A010.001		2640.070.0002	30.G010.096		2706.020.0010	35.A020.020	
2577.744004	40.A010.001		2649.010.0007	50.F010.056		2706.040.0012	35.A040.019	
2577.744005	40.A010.001		2649.030.0003	50.F010.056		2706.040.0013	35.A040.019	
2577.744006	40.A010.001		2649.031.0001	50.F010.056		2715.611501	15.A010.047	
2577.745001	40.A010.001		2649.066.0001	50.F010.056		2747.010.0002	50.F010.056	
2577.745002	40.A010.001		2654.011.0006	70.F010.042		2760402	25.A010.019	

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2780.020.0015	35.A020.020		2895.155.0001	35.A155.001		2900.005.0055	15.C010.044	
2780.040.0016	35.A040.019		2900.002	25.A010.020		2900.005.0085	35.A195.011	
2780.070.0006	35.A070.003		2900.005.0005	30.D010.009		2900.005.0097	15.C010.044	
2780.155.0001	35.A155.001		2900.005.0012	80.A010.030		2900.005.0116	30.A010.037	
2870.734501	35.A001.037		2900.005.0016	70.A010.014		2900.005.0117	30.A010.037	
2873.940501	25.B010.012		2900.005.0028	30.C010.024		2900.005.0152	35.A195.011	
2892.010.0074	35.A010.094		2900.005.0031	30.C010.024		2900.010.0007	70.A010.014	
2892.020.0011	35.A020.020		2900.005.0039	25.A010.019		2900.010.0011	10.A010.003	
2892.040.0021	35.A040.019		2900.005.0044	70.D010.076		2900.015.0006	30.D010.009	
2892.155.0001	35.A155.001		2900.005.0047	30.C010.024		2900.015.0013	30.B010.009	
2892.733501	35.A196.003		2900.005.0047	30.C010.024		2900.015.0017	10.A010.003	
2895.010.0092	35.A010.094		2900.005.0048	30.C010.024		2900.015.0020	30.B010.029	
2895.010.0093	35.A010.094		2900.005.0051	30.C010.024		2900.015.0045	10.A010.003	
2895.020.0018	35.A020.020		2900.005.0051	30.D010.009		2900.015.0089	25.A010.020	
2895.020.0019	35.A020.020		2900.005.0052	30.D020.015		2900.016	15.A010.047	
2895.070.0003	35.A070.003		2900.005.0053	30.B010.009		2900.025.0009	70.F010.042	

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2900.035.0028	35.A010.094		2900.111.0002	10.A010.003		2900.130.0004	15.C010.044	
2900.048	15.B010.037		2900.111.0008	05.A010.029		2900.130.0010	10.A010.003	
2900.048	15.C010.044		2900.111.0009	70.A010.014		2900.140.0020	30.B010.009	
2900.070.0004	05.A010.029		2900.111.0010	30.B010.029		2900.145.0016	10.A010.003	
2900.070.0004	15.C010.044		2900.111.0010	30.A010.037		2900.160.0001	30.B010.009	
2900.070.0004	15.A010.047		2900.111.0012	70.A010.014		2900.160.0012	10.A010.003	
2900.070.0007	15.C010.044		2900.111.0013	25.A010.019		2900.170.0003	15.C010.044	
2900.070.0010	40.A020.001		2900.111.0014	70.D010.076		2900.170.0004	25.A010.019	
2900.070.0024	05.A010.029		2900.111.0014	35.A195.011		2900.190.0002	30.B010.009	
2900.070.0024	30.A010.037		2900.111.0014	35.A195.011		2900.257.0009	15.C010.044	
2900.070.0027	70.F010.042		2900.111.0022	40.A020.001		2900.742011	25.B010.012	
2900.080.0001	80.A010.030		2900.111.0022	50.G012.001		2910.711501	15.A010.047	
2900.080.0005	35.A070.003		2900.111.0022	15.C010.044		2910.761506	15.A010.047	
2900.080.0008	70.D010.076		2900.111.0034	10.A010.003		29380923	35.A001.037	
2900.080.0008	35.A195.011		2900.120.0002	10.A010.003		29385003	25.A010.019	
2900.080.0032	50.G012.001		2900.120.0010	10.A010.003		29385003	25.A010.020	

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29816227	70.A010.040		29860598	45.A001.032		29875990	30.G010.096	
29816448	35.A020.020		29860598	50.C010.016		29876076	35.A070.003	
29820041	40.A020.001		29860728	30.G010.095		29876126	35.A070.003	
29820065	15.C010.044		29875028	70.F010.042		29876520	15.C010.044	
29820140	25.B010.012		29875028	35.A200.031		29876520	15.A010.047	
29820142	25.B010.012		29875032	45.A001.035		2C.102745	75.C012.015	
29845716	70.A010.040		29875061	05.A010.067		2C.10J10	75.C012.011	
29845719	70.B010.014		29875130	50.G012.001		2C.10J8	75.C012.009	
29845873	70.E010.004		29875169	70.E010.004		2C.11F16	75.C012.002	
29846061	30.B010.029		29875170	70.E010.004		2C.11F8	75.C012.003	
29846061	35.A155.001		29875182	35.A001.037		2C.17C720	75.C012.003	
29846069	15.C010.044		29875187	70.D010.076		2C.17C728	75.C012.002	
29846475	45.A001.035		29875218	35.A001.037		2C.1C510	75.C012.003	
29850924	15.B010.037		29875218	35.A195.011		2C.1C624	75.C012.018	
29850927	35.A200.031		29875252	25.B010.012		2C.1C632	75.C012.018	
29860535	35.A182.006		29875521	45.A001.035		2C.1C752	75.C012.002	

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2C.1JM5024	75.C012.018		2C.230851	75.C012.003		2C.234111	75.C012.014	
2C.215757	75.C012.002		2C.230862	75.C012.015		2C.234113	75.C012.010	
2C.216058	75.C012.015		2C.230885	75.C012.010		2C.234113	75.C012.012	
2C.221871	75.C012.002		2C.230889	75.C012.012		2C.234113	75.C012.012	
2C.222067	75.C012.002		2C.231728	75.C012.013		2C.234113	75.C012.013	
2C.223015	75.C012.005		2C.231776	75.C012.004		2C.234113	75.C012.014	
2C.223349	75.C012.012		2C.231776	75.C012.015		2C.234130	75.C012.010	
2C.223878	75.C012.007		2C.233065	75.C012.012		2C.234130	75.C012.013	
2C.223878	75.C012.009		2C.233389	75.C012.012		2C.234132	75.C012.013	
2C.223964	75.C012.009		2C.234109	75.C012.010		2C.234141	75.C012.012	
2C.223964	75.C012.010		2C.234109	75.C012.012		2C.234145	75.C012.010	
2C.225602	75.C012.013		2C.234109	75.C012.012		2C.234157	75.C012.002	
2C.225602	75.C012.015		2C.234109	75.C012.013		2C.234170	75.C012.018	
2C.225605	75.C012.010		2C.234109	75.C012.014		2C.234181	75.C012.018	
2C.225605	75.C012.015		2C.234111	75.C012.010		2C.234185	75.C012.018	
2C.22E8	75.C012.007		2C.234111	75.C012.012		2C.234229	75.C012.004	

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2C.234230	75.C012.010		2C.235959	75.C012.012		2C.237032	75.C012.013	
2C.234305	75.C012.010		2C.235959	75.C012.013		2C.237032	75.C012.014	
2C.234336	75.C012.010		2C.235960	75.C012.010		2C.237211	75.C012.010	
2C.234347	75.C012.010		2C.235960	75.C012.012		2C.237378	75.C012.014	
2C.234347	75.C012.010		2C.235960	75.C012.013		2C.237442	75.C012.012	
2C.234347	75.C012.012		2C.236645	75.C012.001		2C.237442	75.C012.014	
2C.234350	75.C012.010		2C.236847	75.C012.010		2C.237669	75.C012.012	
2C.234350	75.C012.012		2C.236847	75.C012.012		2C.237669	75.C012.014	
2C.234350	75.C012.013		2C.236847	75.C012.013		2C.237841	75.C012.015	
2C.234908	75.C012.009		2C.236847	75.C012.014		2C.238034	75.C012.013	
2C.234956	75.C012.008		2C.237016	75.C012.012		2C.238085	75.C012.017	
2C.235283	75.C012.016		2C.237016	75.C012.012		2C.238215	75.C012.009	
2C.235751	75.C012.015		2C.237016	75.C012.013		2C.238222	75.C012.007	
2C.235763	75.C012.014		2C.237016	75.C012.014		2C.238222	75.C012.009	
2C.235764	75.C012.014		2C.237032	75.C012.010		2C.238223	75.C012.009	
2C.235910	75.C012.015		2C.237032	75.C012.012		2C.238391	75.C012.005	

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2C.238903	75.C012.015		2C.242831	75.C012.004		2C.246354	75.C012.005	
2C.239244	75.C012.003		2C.242832	75.C012.003		2C.246356	75.C012.018	
2C.239244	75.C012.018		2C.243915	75.C012.007		2C.247052	75.C012.001	
2C.239741	75.C012.010		2C.244365	75.C012.002		2C.247055	75.C012.001	
2C.240299	75.C012.013		2C.244366	75.C012.002		2C.247614	75.C012.017	
2C.240300	75.C012.013		2C.244741	75.C012.013		2C.247615	75.C012.017	
2C.240617	75.C012.004		2C.244742	75.C012.015		2C.247616	75.C012.018	
2C.241037	75.C012.014		2C.244842	75.C012.018		2C.247656	75.C012.012	
2C.241077	75.C012.019		2C.245464	75.C012.015		2C.247656	75.C012.014	
2C.241118	75.C012.018		2C.245787	75.C012.004		2C.247664	75.C012.011	
2C.241237	75.C012.004		2C.246015	75.C012.018		2C.247699	75.C012.015	
2C.241308	75.C012.004		2C.246016	75.C012.018		2C.247949	75.C012.012	
2C.241668	75.C012.019		2C.246016	75.C012.018		2C.247949	75.C012.013	
2C.241670	75.C012.019		2C.246017	75.C012.018		2C.247988	75.C012.010	
2C.241819	75.C012.014		2C.246018	75.C012.018		2C.248612	75.C012.003	
2C.242147	75.C012.015		2C.246021	75.C012.018		2C.249148	75.C012.016	

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Part No	Tab. ref.	R. s/p	Part No	Tab. ref.	R. s/p	Part No	Tab. ref.	R. s/p
2C.249152	75.C012.018		2C.4203422	75.C012.002		2C.4205121	75.C012.007	
2C.249779	75.C012.012		2C.4203422	75.C012.003		2C.4205121	75.C012.009	
2C.24H9	75.C012.011		2C.4203907	75.C012.002		2C.4205122	75.C012.007	
2C.24K7	75.C012.018		2C.4203907	75.C012.003		2C.4205122	75.C012.009	
2C.250219	75.C012.004		2C.4204046	75.C012.012		2C.4205124	75.C012.009	
2C.26H9	75.C012.011		2C.4204046	75.C012.013		2C.4205125	75.C012.009	
2C.3GM612	75.C012.002		2C.4204049	75.C012.012		2C.4205134	75.C012.011	
2C.3GM612	75.C012.003		2C.4204049	75.C012.014		2C.4205141	75.C012.012	
2C.40K2	75.C012.018		2C.4204050	75.C012.010		2C.4205179	75.C012.011	
2C.40K2	75.C012.019		2C.4204710	75.C012.004		2C.4205224	75.C012.007	
2C.4200123	75.C012.001		2C.4204759	75.C012.018		2C.4205226	75.C012.007	
2C.4200274	75.C012.018		2C.4205097	75.C012.002		2C.4205235	75.C012.004	
2C.4200456	75.C012.017		2C.4205105	75.C012.004		2C.4205236	75.C012.004	
2C.4202489	75.C012.002		2C.4205107	75.C012.006		2C.4205237	75.C012.011	
2C.4202489	75.C012.003		2C.4205113	75.C012.005		2C.4205578	75.C012.003	
2C.4203177	75.C012.008		2C.4205114	75.C012.005		2C.4205585	75.C012.003	
2C.4203199	75.C012.012		2C.4205115	75.C012.008		2C.4205588	75.C012.002	

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2C.4205611	75.C012.018		2C.47K5	75.C012.002		2C.4E9	75.C012.015	
2C.4205623	75.C012.017		2C.47K5	75.C012.002		2C.5JM45	75.C012.005	
2C.4205623	75.C012.018		2C.47K5	75.C012.003		2C.60K30012	75.C012.010	
2C.4205731	75.C012.012		2C.47K6	75.C012.002		2C.60K30018	75.C012.002	
2C.4205762	75.C012.004		2C.47K6	75.C012.018		2C.60K30018	75.C012.016	
2C.4206098	75.C012.007		2C.47K7	75.C012.019		2C.60K30114	75.C012.005	
2C.4206099	75.C012.007		2C.4CM1020	75.C012.006		2C.60K40026	75.C012.002	
2C.4206289	75.C012.002		2C.4E5	75.C012.003		2C.60K40112	75.C012.015	
2C.4206290	75.C012.002		2C.4E6	75.C012.013		2C.60K40420	75.C012.010	
2C.4206293	75.C012.002		2C.4E6	75.C012.017		2C.62D6	75.C012.013	
2C.4206294	75.C012.002		2C.4E6	75.C012.018		2C.62D7	75.C012.010	
2C.4206296	75.C012.002		2C.4E7	75.C012.002		2C.62D9	75.C012.015	
2C.4206311	75.C012.014		2C.4E7	75.C012.002		2C.6EM100	75.C012.006	
2C.4206341	75.C012.002		2C.4E7	75.C012.003		2C.6H42	75.C012.002	
2C.4206698	75.C012.007		2C.4E7	75.C012.010		2C.73G7104	75.C012.016	
2C.4206699	75.C012.007		2C.4E7	75.C012.016		2C.73G792	75.C012.016	
2C.47K5	75.C012.002		2C.4E8	75.C012.007		2C.73G828	75.C012.007	

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2C.73G828	75.C012.009		2M22X1,5	30.G010.095		3E.F04026.1	45.A001.032	
2C.76K012	75.C012.018		2OR16X4	30.D020.015		3E.F04027.1	45.A001.032	
2C.76K013	75.C012.018		2OR220X3	30.D010.009		3E.F04040.1	45.A001.032	
2C.76K20	75.C012.018		2OR275X4	30.D010.009		3E.F07060.1	45.A001.032	
2C.76K223	75.C012.011		2OR280X3	30.B010.009		3E.FA.017.1	45.D010.003	
2C.78K8	75.C012.018		2OR297X4	30.D010.009		3E.FA.017.2	45.D010.003	
2C.814975	75.C012.006		2OR3400	10.A010.003		3E.I35SW005	50.F020.004	
2C.91F5	75.C012.002		2OR35-2	30.B010.009		3E.I35SW010	50.F020.004	
2C.91F5	75.C012.002		2OR380X4	30.D010.009		3E.I35SW020	50.F020.004	
2C.91F5	75.C012.002		2OR4700	25.B010.012		3E.I35SW040	50.F020.004	
2C.91F5	75.C012.003		2PPP133138	70.B010.014		3E.I35SW051	50.F020.004	
2C.91F6	75.C012.002		2XLP772555	70.B010.014		3E.I35SW071	50.F020.004	
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2C.91F7	75.C012.018		31314	30.C010.024		3E.I35SW212	50.F020.004	
2C.91F7	75.C012.019		3E.D12066	50.F010.056		3E.I35SW223	50.F020.004	
2C.93G824	75.C012.007		3E.F02002.1	45.A001.032		3E.L26012.0	45.A001.032	
2M015532	40.A010.001		3E.F040028	45.A001.032		3E.L26013.0	45.A001.032	

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Part No	Tab. ref.	R. s/p	Part No	Tab. ref.	R. s/p	Part No	Tab. ref.	R. s/p
3E.L26014.0	45.A001.032		3F.2000114	50.C010.016		3F.2005514	50.C010.016	
3E.L26018.0	45.A001.032		3F.2000116	50.C010.016		3F.2005544	50.C010.016	
3E.Q13017	50.F020.004		3F.2000120	50.C010.016		3F.2005554	50.C010.016	
3E.S17203	50.F020.004		3F.2000127	50.C010.016		3F.2006626	50.C010.016	
3E.S17204	50.F020.004		3F.2000158	50.C010.016		3F.2006702	50.C010.016	
3E.S17216	50.F020.004		3F.2000158	50.C010.016		3F.2007521	50.C010.016	
3E.S17217	50.F020.004		3F.2000165	50.C010.016		3F.2008800	50.C010.016	
3E.TE.047	50.F020.004		3F.2000166	50.C010.016		3F.2010117	50.C010.016	
3E.TE.092	50.F020.004		3F.2000204	50.C010.016		3F.2010308	50.C010.016	
3E.V02001	50.F020.004		3F.2000206	50.C010.016		3F.2010309	50.C010.016	
3E.V38118	45.D010.003		3F.2000209	50.C010.016		3F.2010309	50.C010.016	
3F.2000009	50.C010.016		3F.2000216	50.C010.016		3F.2010309	50.C010.016	
3F.2000038	50.C010.016		3F.2000217	50.C010.016		3F.2010400	50.C010.016	
3F.2000039	50.C010.016		3F.2001308	50.C010.016		3F.2011606	50.C010.016	
3F.2000101	50.C010.016		3F.2001500	50.C010.016		3F.2040342	50.C010.016	
3F.2000103	50.C010.016		3F.2004511	50.C010.016		3F.2063100	50.C010.016	
3F.2000114	50.C010.016		3F.2004512	50.C010.016		3F.3003170	50.C010.016	

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Part No	Tab. ref.	R. s/p	Part No	Tab. ref.	R. s/p	Part No	Tab. ref.	R. s/p
3F.3003171	50.C010.016		M1902	50.G012.001		M3789	25.A010.019	
3F.3003172	50.C010.016		M1903	50.G012.001		M3791	25.A010.019	
3F.3003173	50.C010.016		M1921T	70.A010.014		M3792	25.A010.019	
3F.3003174	50.C010.016		M1922T	70.A010.014		M3793	25.A010.019	
3F.3003389	50.C010.016		M1934	15.C010.044		M6594	25.A010.020	
3F.3100512	50.C010.016		M1967T	70.A010.014		M6595	25.A010.020	
3F.3101742	50.C010.016		M2940	70.F010.042		M6597	25.A010.020	
3F.3102086	50.C010.016		M3073T	70.F010.042		M6602	25.A010.020	
3F.3900063	50.C010.016		M3397	15.C010.044		N0206T	70.F010.042	
3F.3900066	50.C010.016		M3416	25.A010.020		N0323T	35.A200.031	
4C.3898680101	35.A001.037		M3535	25.B010.012		N0349T	70.F010.042	
4C.3911802684	35.A001.037		M3536	25.B010.012		N0352T	70.F010.042	
4S.MO15804	40.A010.001		M3537	25.B010.012		N0354T	05.A010.067	
7D.PBHOO-0823	70.B010.014		M3538	25.B010.012		N2325T	35.A010.094	
GE60TE2RS	35.A020.020		M3540	25.A010.020		N7387T	10.A010.003	
KM3786	35.A020.020		M3786	35.A020.020		N7388T	10.A010.003	
KT10	45.A001.035		M3788	25.A010.019		N7389T	10.A010.003	

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Part No	Tab. ref.	R. s/p	Part No	Tab. ref.	R. s/p	Part No	Tab. ref.	R. s/p
N7421T	10.A010.003							
N7422T	10.A010.003							
N7451T	10.A010.003							
N7452T	10.A010.003							
N7453T	10.A010.003							
N7475T	10.A010.003							
N7638T	10.A010.003							
P2456T	50.G012.001							
VTE24X2L230	05.A010.029							
Z1830	05.A010.029							
Z1831	05.A010.029							
Z1832	05.A010.029							
Z1833	05.A010.029							
Z2346T	35.A040.019							

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01.....



TARGHETTE
NAME PLATE
PLAQUETTE
NAMENSSCHILD
PLACA

05.....



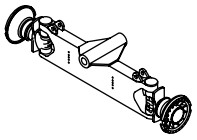
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FAIRING
CARENAGE
VERKLEIDUNG
CARENADO

15.....



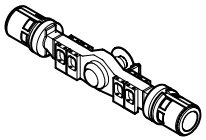
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MAST
MAST
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25.....



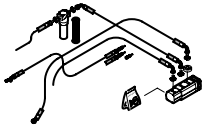
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REAR AXLE
ESSIEU ARRIèRE
HINTERACHSE
EJE POSTERIOR

30.....



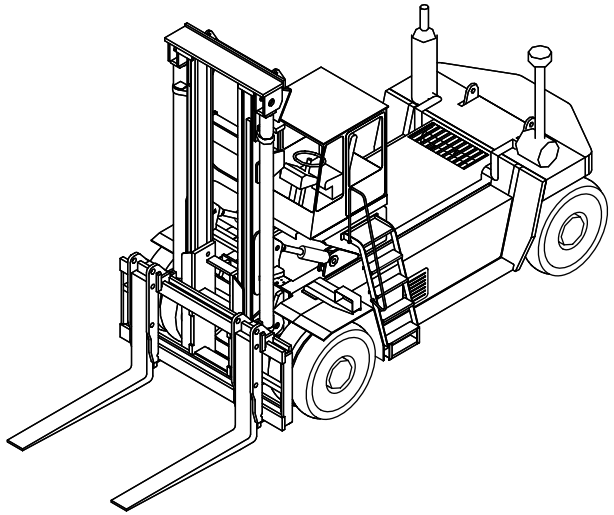
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FRONT AXLE
ESSIEU AVANT
VORDERACHSE
EJE ANTERIOR

35.....

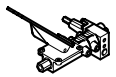


IMPIANTO IDRAULICO
HYDRAULIC SYSTEM
INSTALLATION HYDRAULIQUE
HYDRAULIKANLAGE
INSTALACION HIDRAULICA

01.A020.005

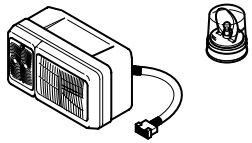


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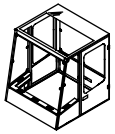
PEDALE FRENO
BRAKE PEDAL
PEDALE DE FREIN
BREMSPEDAL
PEDAL DEL FRENO

45.....



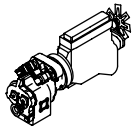
IMPIANTO ELETTRICO
ELECTRIC SYSTEM
INSTALLATION ELECTRIQUE
SCHALTBILD
INSTALACION ELECTRICA

50.....



CABINA
CAB
CABINE
KABINE
CABINA

70.....



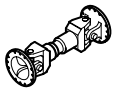
ALLESTIMENTO MOTORE
ENGIME OUTFIT
EQUIPAMENT MOTEUR
MOTOR ZUBEHOR
PREPARACION DEL MOTOR

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CAMBIO
GEARBOX
BOîTE DE VITESSES
SCHALTGETRIEBE
CAJA DE VELOCIDADES

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ALBERO CARDANICO
CARDAN SHAFT
ARBRE A CARDAN
GELENKWELLE
ARBOL CARDAN

FANTUZZI REGGIANE

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GRUPPENVERZEICHNIS
INDICE DE LOS GRUPOS

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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
03	2231.069.0003	4	targhetta	name plate	plaquette	Namensschild	placa
04	2231.061.0001	1	targhetta	name plate	plaquette	Namensschild	placa
05	2231.019.0001	1	targhetta	name plate	plaquette	Namensschild	placa
06	2231.061.0002	1	targhetta	name plate	plaquette	Namensschild	placa
07	2231.069.0006	1	targhetta	name plate	plaquette	Namensschild	placa
08	2231.021.0001	2	targhetta	name plate	plaquette	Namensschild	placa
09	2231.021.0002	1	targhetta	name plate	plaquette	Namensschild	placa
10	2231.019.0003	1	targhetta	name plate	plaquette	Namensschild	placa
11	2231.019.0004	1	targhetta	name plate	plaquette	Namensschild	placa
12	2231.011.0001	2	targhetta	name plate	plaquette	Namensschild	placa
13	2231.041.0001	1	targhetta	name plate	plaquette	Namensschild	placa
14	2231.061.0003	1	targhetta	name plate	plaquette	Namensschild	placa
15	2231.068.0001	1	targhetta	name plate	plaquette	Namensschild	placa
16	2231.060.0004	1	targhetta	name plate	plaquette	Namensschild	placa
17	2231.069.0008	1	targhetta	name plate	plaquette	Namensschild	placa
18	2231.078.0001	1	targhetta	name plate	plaquette	Namensschild	placa
19	2231.069.0007	1	targhetta	name plate	plaquette	Namensschild	placa
20	2231.071.0002	1	targhetta	name plate	plaquette	Namensschild	placa
21	2231.011.0002	4	targhetta	name plate	plaquette	Namensschild	placa
22	2231.060.0003	1	targhetta	name plate	plaquette	Namensschild	placa
23	2231.061.0004	1	targhetta	name plate	plaquette	Namensschild	placa
24	2231.029.0004	1	targhetta	name plate	plaquette	Namensschild	placa
25	2231.029.0001	1	targhetta	name plate	plaquette	Namensschild	placa
26	2231.029.0002	1	targhetta	name plate	plaquette	Namensschild	placa
27	2231.029.0003	1	targhetta	name plate	plaquette	Namensschild	placa
28	2231.051.0003	1	targhetta	name plate	plaquette	Namensschild	placa

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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
29	2231.081.0001	1	targhetta	name plate	plaquette	Namensschild	placa
30	2231.069.0010	1	targhetta	name plate	plaquette	Namensschild	placa
31	2231.051.0004	1	targhetta	name plate	plaquette	Namensschild	placa
32	2231.069.0001	1	targhetta	name plate	plaquette	Namensschild	placa
33	2231.069.0009	2	targhetta	name plate	plaquette	Namensschild	placa

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1 — 2231.069.0001

2 — 10 — 2231.069.0002

3 — 142 P.S.I. — 2231.069.0003

4 — CLEANING THE TRUCK / INSTRUCTION — 2231.061.0001

5 — 24 V. 150 A/h. — 2231.019.0001

6 — BATTERY CONNECTED / BATTERY DISCONNECTED — 2231.061.0002

7 — 2231.069.0006

8 — ATTENTION IL EST DANGEREUX DE RESTER DANS LE RAYON D'ACTION DE LA MACHINE — 2231.022.0001

9 — ATTENTION AUX CHARGES SUSPENDUES — 2231.022.0002

10 — 2231.019.0003

11 — 2231.019.0004

12 — FALLING HAZARD — 2231.011.0001

13 — AUTHORIZED PERSONNEL only to drive this machine — 2231.041.0001

14 — DIESEL FUEL ONLY — 2231.061.0003

15 — RADIATOR WITH <PARAFLU 11> for temperatures down to - 25°C FIAT — 2231.068.0001

16 — MAX — 2231.060.0004

17 — 2231.069.0008

18 — fantuzzi CE 1995 — 2231.078.0001

19 — 2231.069.0007

20 — 2231.071.0002

21 — Before removing any rim or wheel component (i.e., nuts or rim clamps) exhaust all air from the tyre — 2231.011.0002

22 — MIN — 2231.060.0003

23 — HYDRAULIC OIL ONLY — 2231.061.0004

24 — 2231.029.0004

25 — 2231.029.0001

26 — 2231.029.0002

27 — 2231.029.0003

28 — MAX CAPACITY 00TON — 2231.051.0003

29 — DENOMINATION OF THE EQUIPMENT / MODEL / SERIAL NUMBER / YEAR OF MANUFACTURE / EQUIPMENT / CAPACITES C.O.G. AT / WITH C.O.G. AT / WEX / MAX. WORK. PRESS — 2231.081.0001

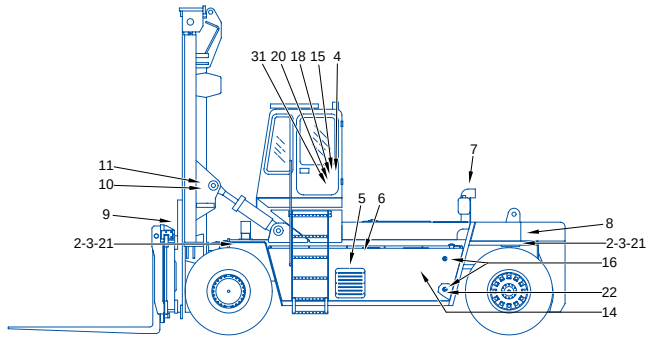
30 — 2231.069.0010

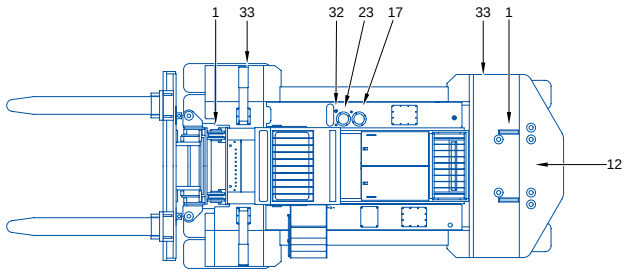
31 — fantuzzi — 2231.071.0004

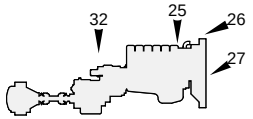
32 — 2231.069.0001

33 — INFLATION PRESSURE / TORQUE WRENCH — 2231.069.0009

01.A070.063







FANTUZZI REGGIANE

DISPOSIZIONE TARGHETTE
NAME PLATE LAYOUT
DISPOSITIONS PLAQUETTES
ANORDNUNG DER SCHILDER
DISPOSICIÓN DE LAS PLACA

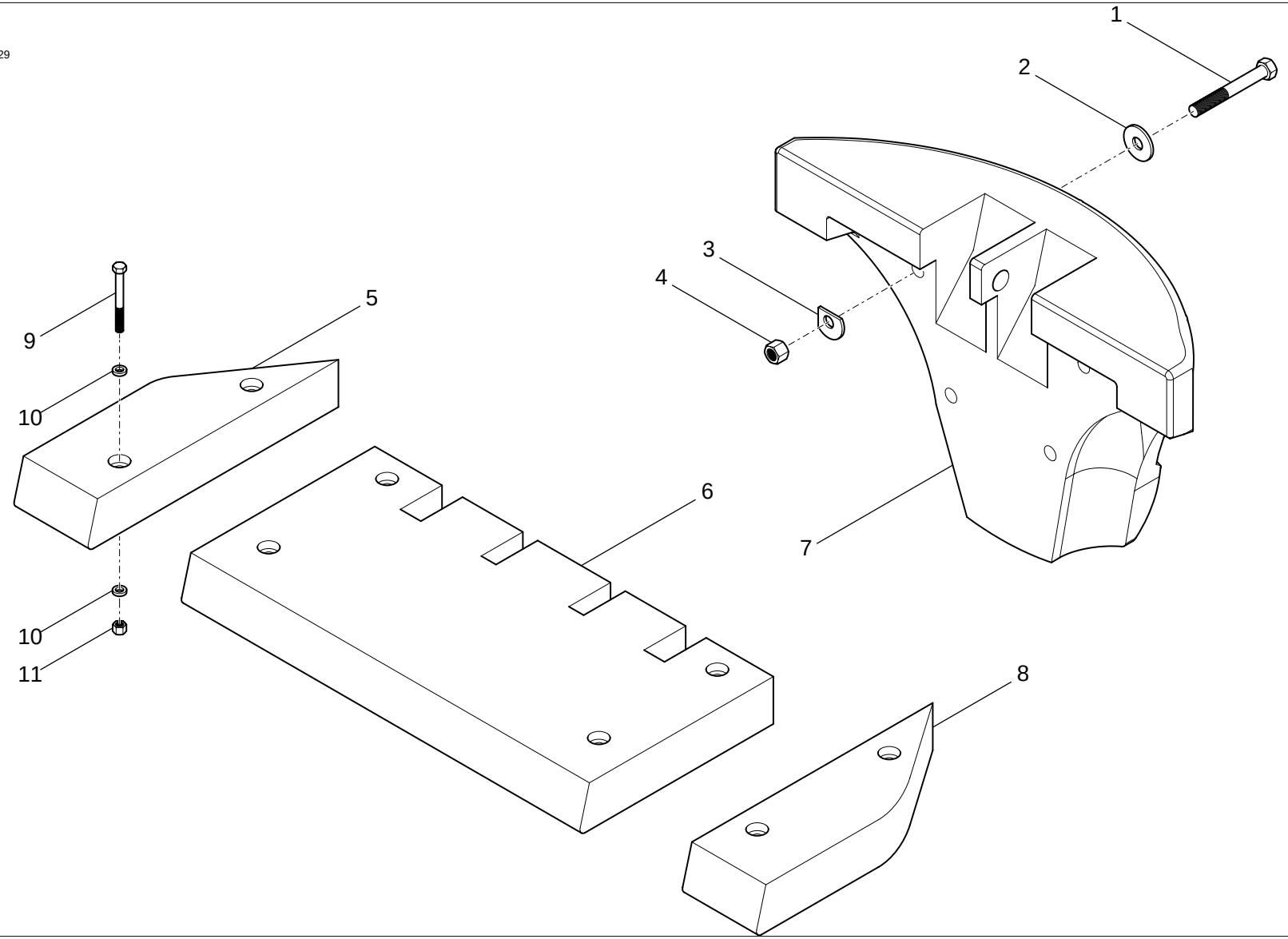
Tav. Tab. Taf.	01.A070.063	02/03 0

https://truckmanualshub.com/

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2582.141.0010	4	tirante	tie-rod	tirant	Gewindestange	timón
02	2582.141.0009	4	rosetta	washer	rondelle	Scheibe	arandela
03	2582.141.0008	4	rosetta	washer	rondelle	Scheibe	arandela
04	2900.070.0004	4	dado	nut	écrou hexagonaux	Mutter	tuerca
05	Z1831	1	zavorra	counterweight	contrepoids	Gegenwicht	lastre
06	Z1833	1	zavorra	counterweight	contrepoids	Gegenwicht	lastre
07	Z1832	1	zavorra	counterweight	contrepoids	Gegenwicht	lastre
08	Z1830	1	zavorra	counterweight	contrepoids	Gegenwicht	lastre
09	VTE24X2L230	8	tirante	tie-rod	tirant	Gewindestange	timón
10	2900.111.0008	16	rosetta	washer	rondelle	Scheibe	arandela
11	2900.070.0024	8	dado	nut	écrou hexagonaux	Mutter	tuerca

https://truckmanualshub.com/

05.A010.029



FANTUZZI REGGIANE

ZAVORRA
COUNTERWEIGHT
CONTREPOIDS
GEGENWICHT
LASTRE

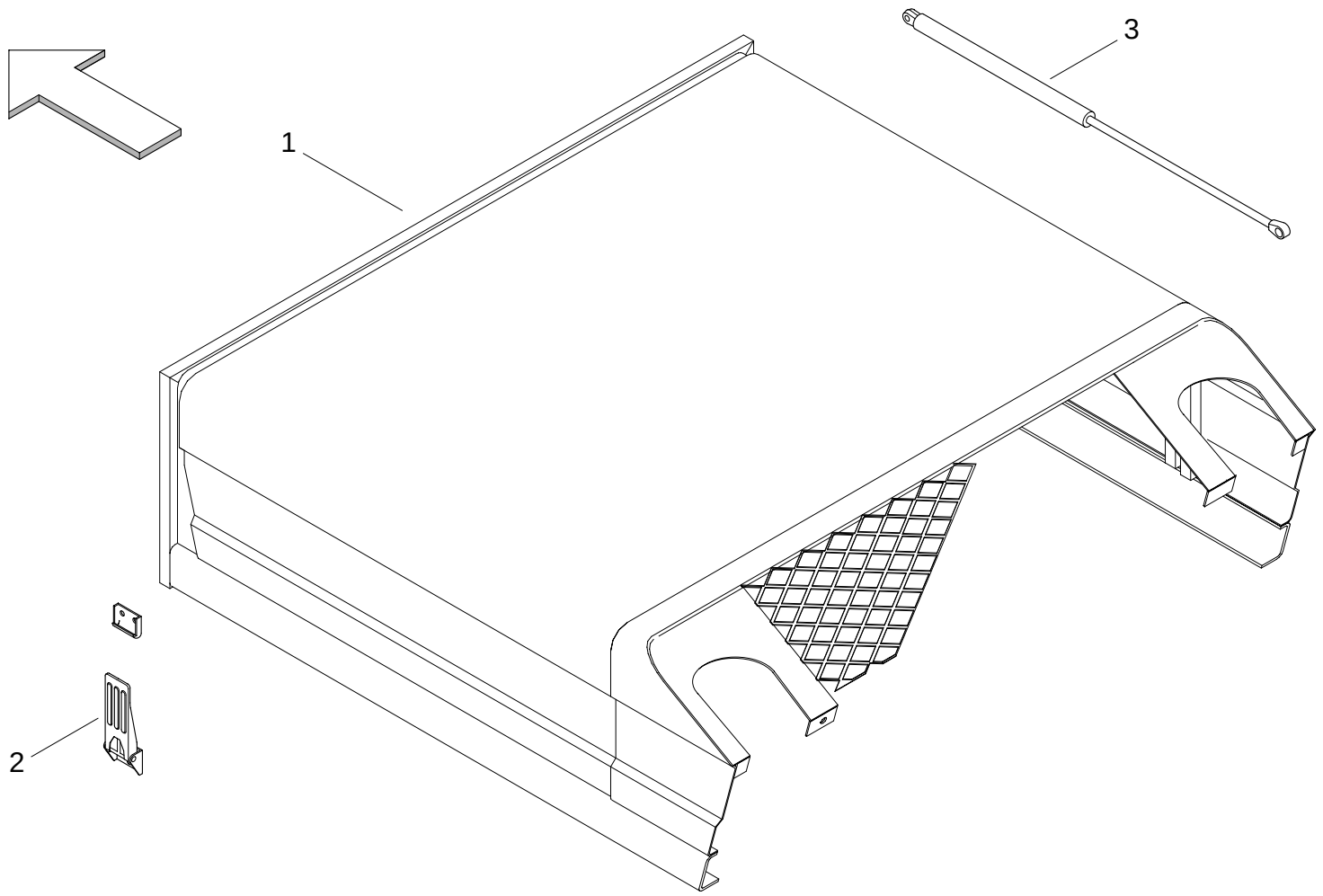
Tav. Tab. Taf.	05.A010.029	02/03
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https://truckmanualshub.com/

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	N0354T	1	cofano motore	bonnet	capot moteur	Motorhaube	capot motor
02	29875061	2	gancio	hook	crochet	Haken	gancho
03	2556.010.0013	1	molla a gas	gas spring	vérin à gaz	Gasdruckfeder	cilindro de gas

https://truckmanualshub.com/

05.A010.062



FANTUZZI REGGIANE

COFANO MOTORE
BONNET
CAPOT MOTEUR
MOTORHAUBE
CAPOT MOTOR

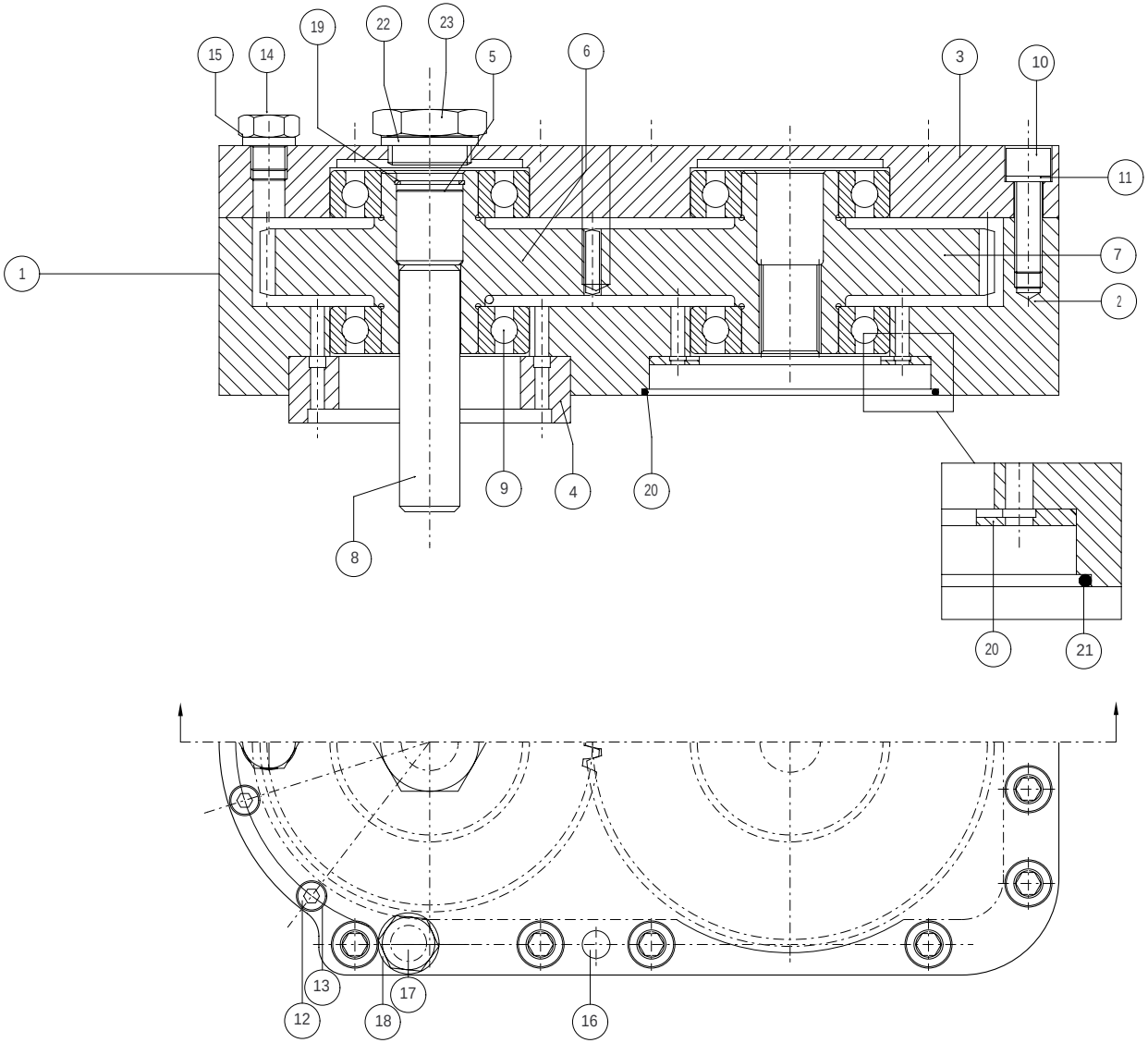
Tav. Tab. Taf.	05.A010.067	02/03
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https://truckmanualshub.com/

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	N7453T	1	riduttore	reduction gear	réducteur	Untersetzungsgetriebe	reductor
02	N7422T	1	carter	housing	carter	Gehäuse	cárter
03	N7421T	1	coperchio	cover	couvercle	Deckel	tapa
04	N7451T	1	flangia	flange	bride	Flansch	brida
05	N7452T	1	spessore	shim	cale	Unterlegscheibe	placa
06	N7387T	2	pignone	pinion	pignon	Ritzel	piñón
07	N7388T	2	pignone	pinion	pignon	Ritzel	piñón
08	N7389T	1	albero di trasmissione	transmission shaft	arbre de transmission	Kardanwelle	árbol de transmisión
09	2426.040.0002	4	cuscinetto	bearing	roulement	Lager	rodamiento
10	2900.015.0017	12	vite	screw	vis	Schraube	tornillo
11	2900.120.0002	12	rondella di sicurezza	lock washer	rondelle de sûreté	Sicherungsscheibe	arandela
12	2900.015.0045	4	vite	screw	vis	Schraube	tornillo
13	2900.120.0010	4	rosetta	washer	rondelle	Scheibe	arandela
14	2333.051.0001	1	tappo	cap	bouchonn	Verschlußdeckel	tapon
15	2900.111.0002	1	rosetta	washer	rondelle	Scheibe	arandela
16	2900.160.0012	2	spina elastica	taper pin	goupille élastique	Kegelstift	pasador
17	2900.010.0011	2	vite	screw	vis	Schraube	tornillo
18	2900.130.0010	2	rosetta	washer	rondelle	Scheibe	arandela
19	2900.145.0016	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
20	2OR3400	1	anello or	o-ring	joint torique	O-ring	o-ring (junta tórica)
21	N7475T	1	flangia	flange	bride	Flansch	brida
22	2900.111.0034	1	rosetta	washer	rondelle	Scheibe	arandela
23	N7638T	1	tappo	cap	bouchonn	Verschlußdeckel	tapon

https://truckmanualshub.com/

10.A010.003



FANTUZZI REGGIANE

RIDUTTORE TRASMISSIONE
TRANSMISSION REDUCTION UNIT
REDUCTEUR DE TRANSMISSION
UNTERSETZUNGSGETRIEBE ÜBERTRAGUNG
REDUCTOR DE TRANSMISION

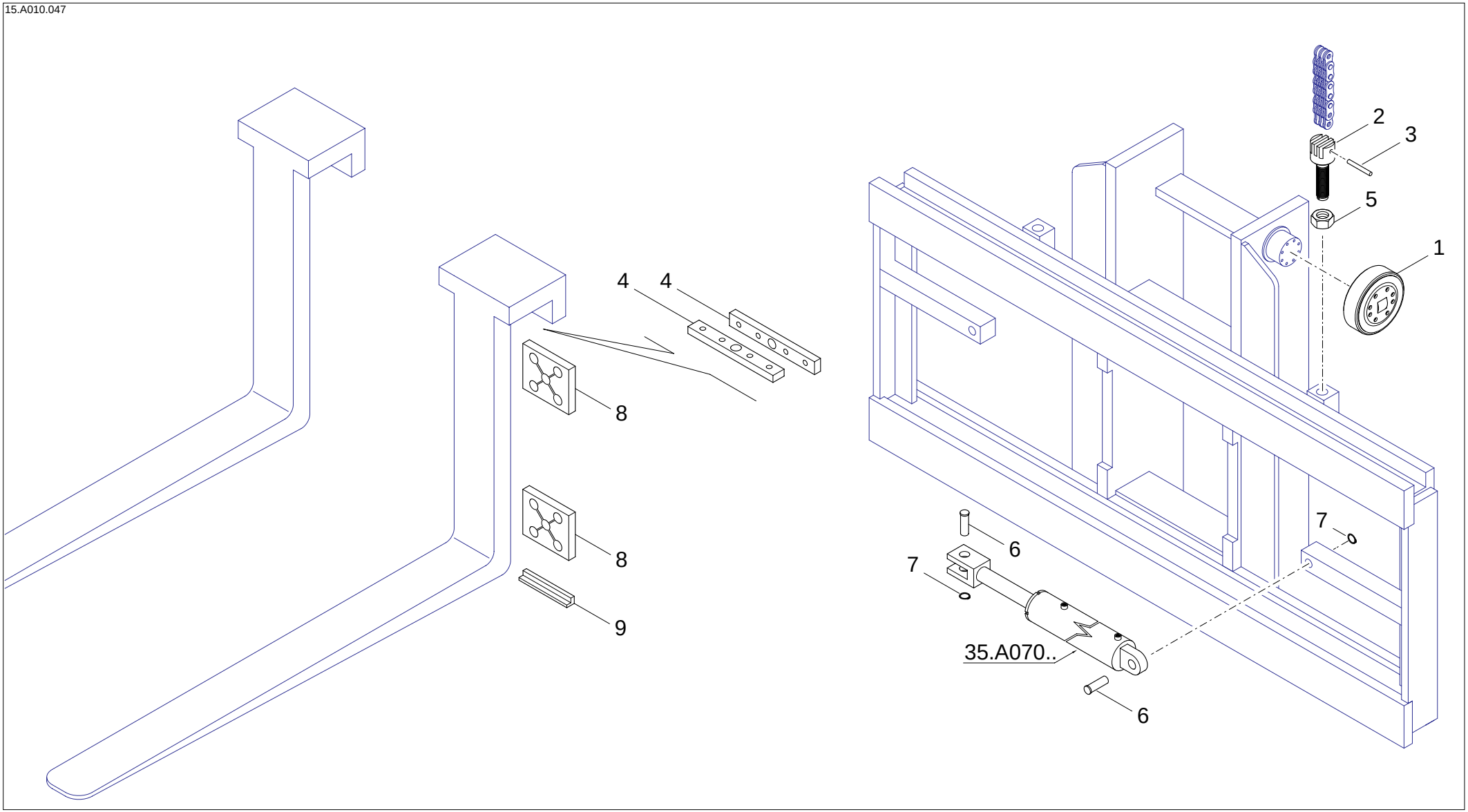
Tav. Tab. Taf.	10.A010.003	02/03
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https://truckmanualshub.com/

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2426.676001	4	cuscinetto	bearing	roulement	Lager	rodamiento
02	2482.020.0005	2	forcella	yoke	chape	Gabel	horquilla
03	29876520	2	spinotto	gudgeon pin	axe	Bolzen	perno
04	2910.711501	4	pattino	shoe	patin	Gleitschuh	patín
05	2900.070.0004	2	dado	nut	écrou hexagonaux	Mutter	tuerca
06	2582.671502	4	perno	pin	axe	Gewindestift	pivote
07	2900.016	4	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
08	2910.761506	4	pattino	shoe	patin	Gleitschuh	patín
09	2715.611501	2	pattino	shoe	patin	Gleitschuh	patín

https://truckmanualshub.com/

15.A010.047



FANTUZZI REGGIANE

PIASTRA PORTAFORCHE
FORK PLATE
PLAQUE PORTEFOURCHES
HEBER DER GABELTRAEGERPLATT
PLACA

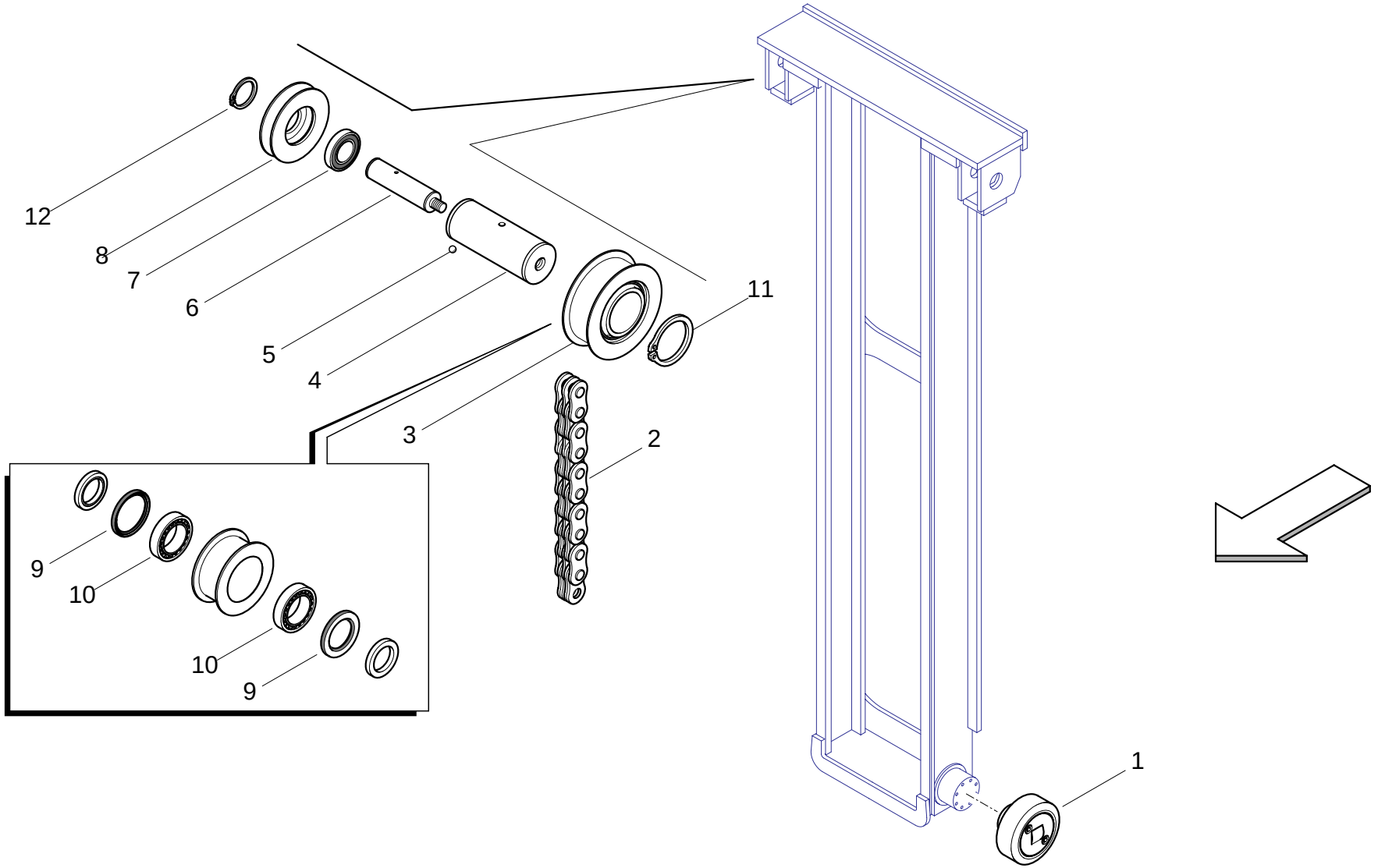
Tav. Tab. Taf.	15.A010.047	02/03
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https://truckmanualshub.com/

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2426.676001	2	cuscinetto	bearing	roulement	Lager	rodamiento
02	2368.741502	2	catena	chain	chaîne	Kette	cadena
03	2426.611504	2	rullo porta catena	chain roller	rouleau porte-chaîne	Kettenhalterolle	rodillo porta-cadena
04	2582.671503	2	perno	pin	axe	Gewindestift	pivote
05	2900.048	2	sfera	ball	bille	Kugel	esfera
06	2582.671505	1	perno	pin	axe	Gewindestift	pivote
07	2426.731502	5	cuscinetto	bearing	roulement	Lager	rodamiento
08	29850924	4	puleggia	pulley	poulie	Riemenscheibe	polea
09	2294.152.0003	4	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
10	2426.060.0002	4	cuscinetto	bearing	roulement	Lager	rodamiento
11	2333.201502	2	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
12	2333.672503	2	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico

https://truckmanualshub.com/

15.B010.037



FANTUZZI REGGIANE

SOLLEVATORE MOBILE
MOBILE LIFT UNIT
ELEVATOR MONTANT MOBILE
BEWEGLICHE HUB-VORRICHTUNG
ELEVADOR MUEBLE

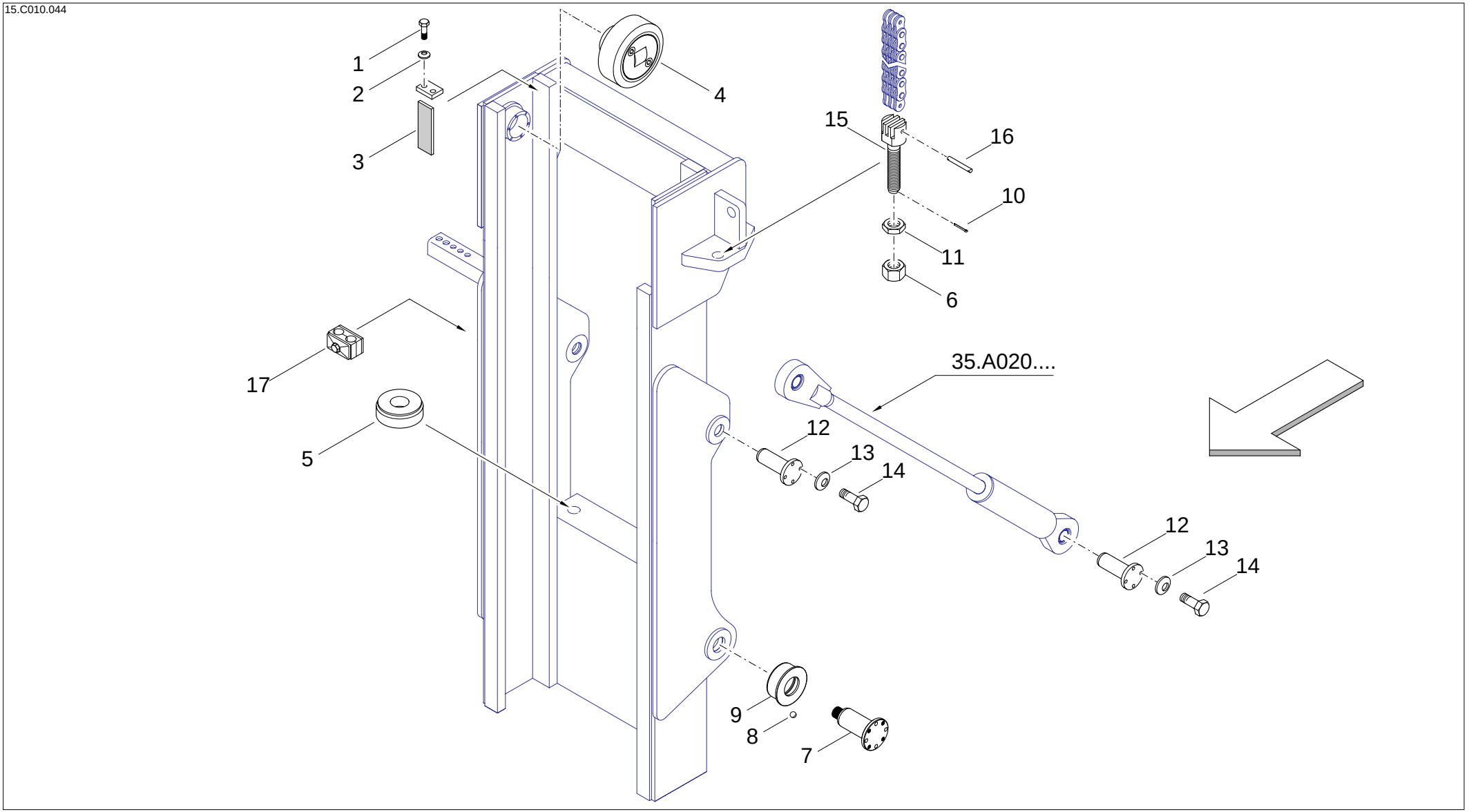
Tav. Tab. Taf.	15.B010.037	02/03
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https://truckmanualshub.com/

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2900.005.0097	4	vite	screw	vis	Schraube	tornillo
02	2900.111.0022	4	rosetta	washer	rondelle	Scheibe	arandela
03	29820065	2	pattino	shoe	patin	Gleitschuh	patín
04	2426.676001	2	cuscinetto	bearing	roulement	Lager	rodamiento
05	29846069	2	cuscinetto reggispinta	thrust bearing	palier de butée	Drucklager	cojinete de empuje
06	2900.070.0004	2	dado	nut	écrou hexagonaux	Mutter	tuerca
07	M1934	2	perno	pin	axe	Gewindestift	pivote
08	2900.048	4	sfera	ball	bille	Kugel	esfera
09	M3397	2	boccola	bushing	palier	Lagerteil	casquillo
10	2900.170.0003	2	copiglia	split pin	goupille fendue	Splint	pasador abierto
11	2900.070.0007	2	dado	nut	écrou hexagonaux	Mutter	tuerca
12	2582.741504	4	perno	pin	axe	Gewindestift	pivote
13	2900.130.0004	16	rondella di sicurezza	lock washer	rondelle de sûreté	Sicherungsscheibe	arandela
14	2900.005.0055	16	vite	screw	vis	Schraube	tornillo
15	245150003B027	2	forcella	yoke	chape	Gabel	horquilla
16	29876520	2	spinotto	gudgeon pin	axe	Bolzen	perno
17	2900.257.0009	4	collare	collar	collier	Schelle	collar

https://truckmanualshub.com/

15.C010.044



FANTUZZI REGGIANE

SOLLEVATORE FISSO
FIXED LIFT UNIT
RELEVAGE FIXE
FESTE HUBVORRICHTUNG
ELEVADOR FIJO

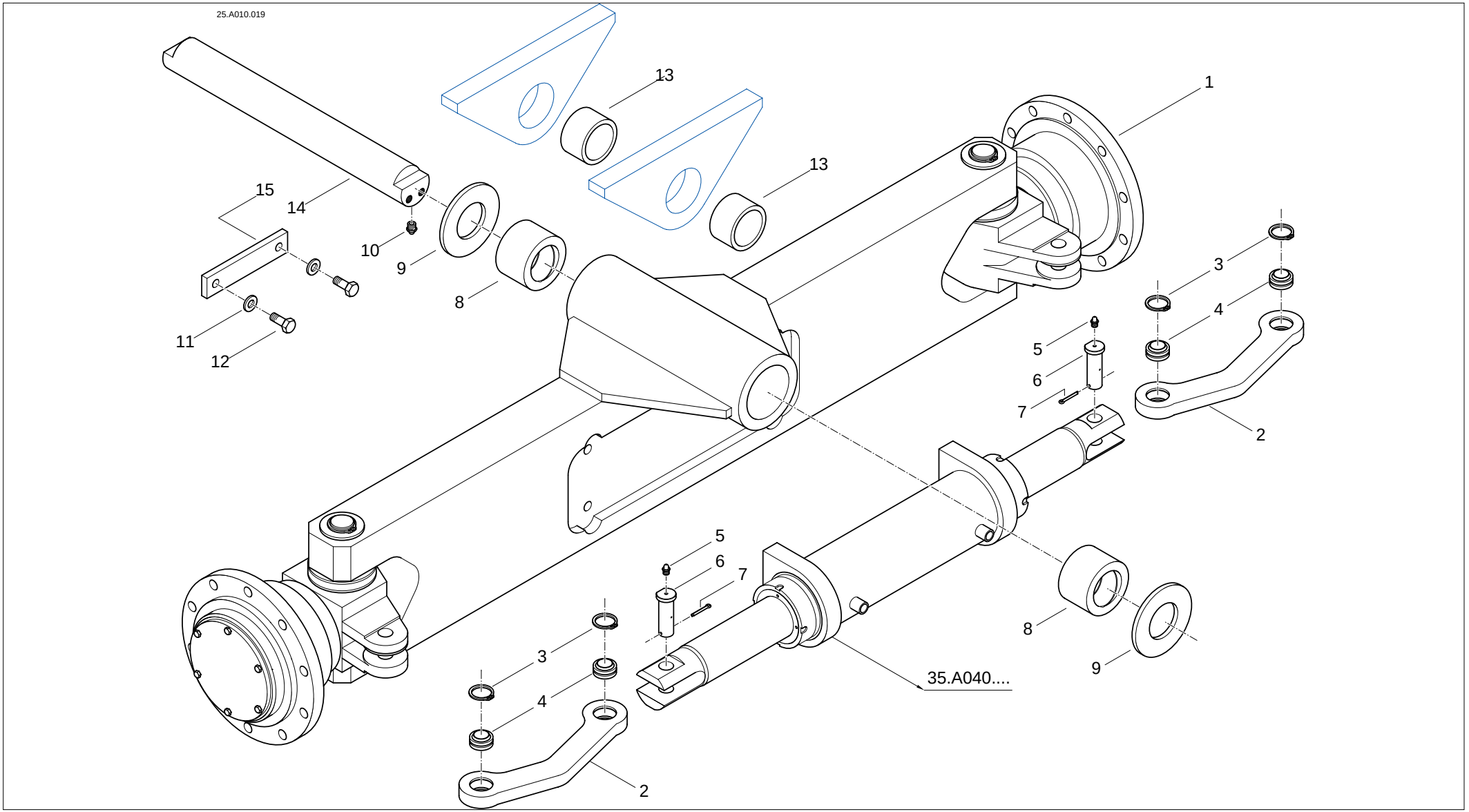
Tav. Tab. Taf.	15.C010.044	02/03
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FANTUZZI REGGIANE

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2307.632502	1	assale sterzante	steering axle	essieu directeur	Lenkachse	eje de direccion
02	2325.010.0001	2	biella	connecting rod	bielle	Gewindestange	biela
03	2760402	4	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
04	29860547	4	snodo sferico	ball joint	rotule	Kugelgelenk	articulación
05	29385003	4	ingrassatore	lubricator	graiss eur	Schmiernippel	engrasador
06	2582.282503	4	perno	pin	axe	Gewindestift	pivote
07	2900.170.0004	4	copiglia	split pin	goupille fendue	Splint	pasador abierto
08	M3792	2	bronzina	bearing	bague	Lagerbüchse	cojinete
09	M3793	2	rosetta	washer	rondelle	Scheibe	arandela
10	2333.202506	2	ingrassatore	lubricator	graiss eur	Schmiernippel	engrasador
11	2900.111.0013	4	rosetta piana	flat washer	rondelle plate	Scheibe	arandela plana
12	2900.005.0039	4	vite	screw	vis	Schraube	tornillo
13	M3789	2	boccola	bushing	palier	Lagerteil	casquillo
14	M3788	1	perno	pin	axe	Gewindestift	pivote
15	M3791	2	piatto	plate	plat	Flachstahl	plato

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FANTUZZI REGGIANE

COMPONENTI PONTE STERZANTE
STEERING AXLE COMPONENTS
COMPOSANTS DU PONT DE DIRECTION
KOMPONENTEN LENKBRÜCKE
COMPONENTES DEL PUESTE DE LA DIRECCION

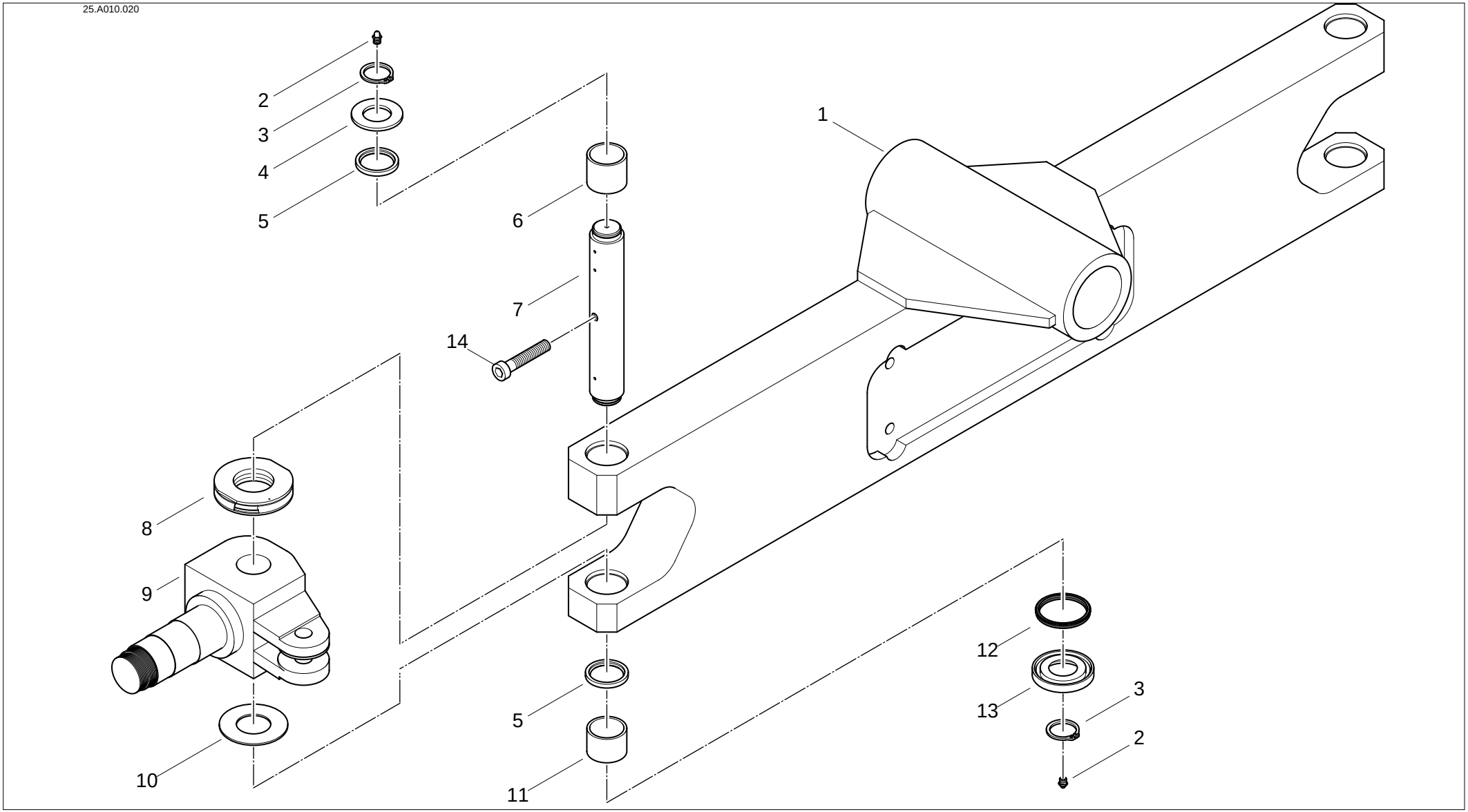
Tav. Tab. Taf.	25.A010.019	02/03
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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	M6597	1	assile	axle	essieu	Achse	eje
02	29385003	4	ingrassatore	lubricator	graiss eur	Schmiernippel	engrasador
03	2900.002	4	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
04	M6594	2	rosetta	washer	rondelle	Scheibe	arandela
05	2583.020.0002	4	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
06	2229.610501	2	boccola	bushing	palier	Lagerteil	casquillo
07	M6602	2	perno	pin	axe	Gewindestift	pivote
08	2426.632501	2	cuscinetto reggispinta	thrust bearing	palier de butée	Drucklager	cojinete de empuje
09	M3416	2	fusello a snodo	steering knuckle	fusée articulée	Gelenk-achszapfen	mangueta articulada
10	M3540	2	rosetta	washer	rondelle	Scheibe	arandela
11	2229.030.0001	2	boccola	bushing	palier	Lagerteil	casquillo
12	2511.040.0001	2	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
13	M6595	2	anello portaparaolio	oil seal ring	bague du racleur	Ölfangring	anillo portaguardagotas
14	2900.015.0089	2	vite	screw	vis	Schraube	tornillo

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25.A010.020



FANTUZZI REGGIANE

FUSELLO A SNODO
STEERING KNUCKLE
FUSÉE ARTICULÉE
GELENK-ACHSZAPFEN
MAMANGUETA ARTICULADA

Tav. Tab. Taf.	25.A010.020	02/03
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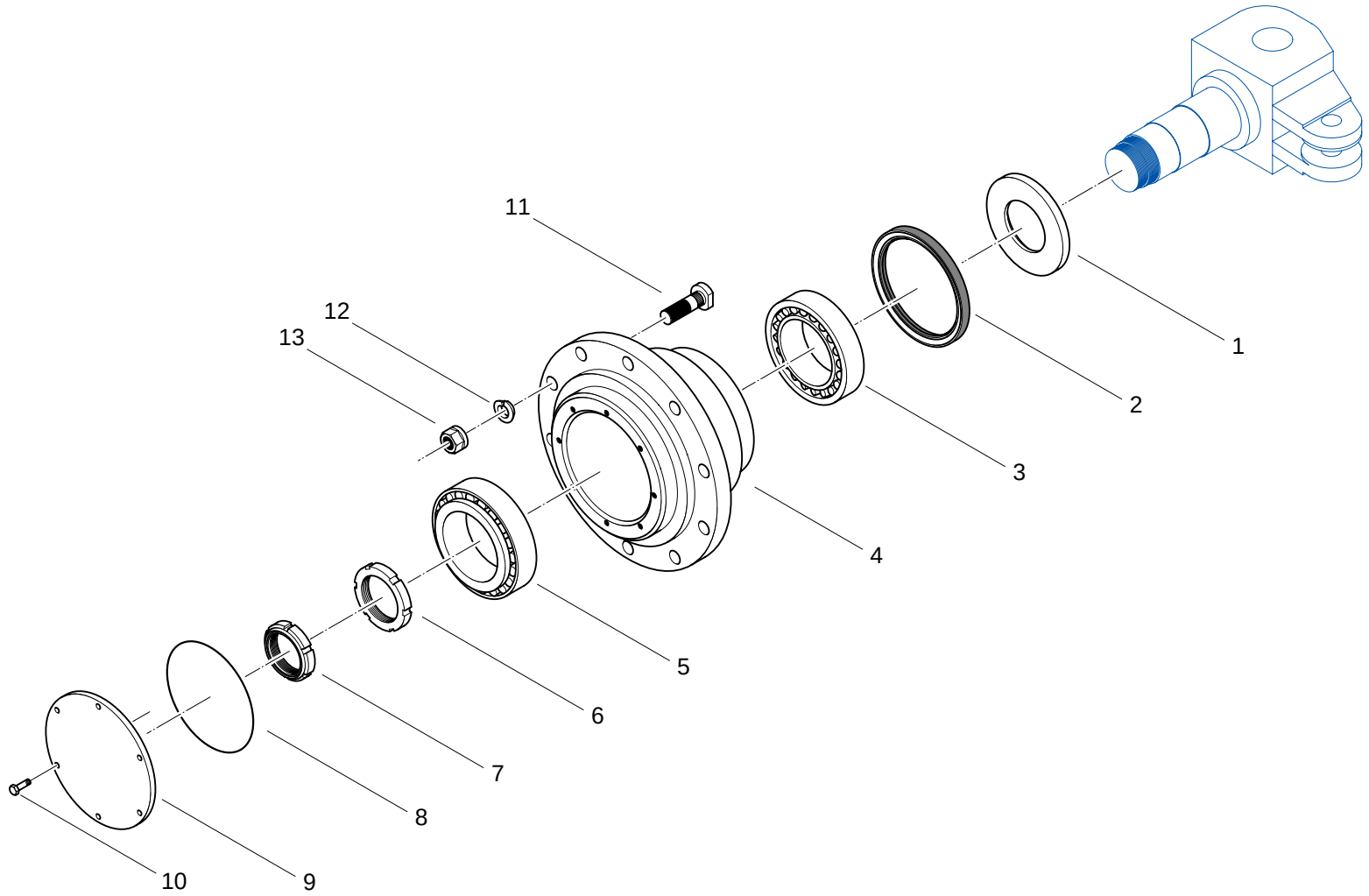
https://truckmanualshub.com/

FANTUZZI REGGIANE

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	M3538	2	anello distanziale	spacer ring	bague entretoise	Abstandsring	espaciador
02	216019015	2	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
03	2426.632502	2	cuscinetto a rulli	roller bearing	roulement à rouleaux	Rollenlager	rodamiento de rodillos
04	M3535	2	mozzo	hub	moyeu	Radnabe	cubo
05	2426.282502	2	cuscinetto a rulli	roller bearing	roulement à rouleaux	Rollenlager	rodamiento de rodillos
06	M3536	2	ghiera	ring nut	écrou	Gewindering	tuerca
07	2873.940501	2	ghiera autobloccante	self-locking ring nut	embout de sûreté	Selbstsperrende	virola autoblocante
08	2OR4700	2	anello or	o-ring	joint torique	O-ring	o-ring (junta tórica)
09	M3537	2	coperchio	cover	couvercle	Deckel	tapa
10	2900.742011	12	vite	screw	vis	Schraube	tornillo
11	29875252	20	vite	screw	vis	Schraube	tornillo
12	29820142	20	rosetta	washer	rondelle	Scheibe	arandela
13	29820140	20	dado	nut	écrou hexagonaux	Mutter	tuerca

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25.B010.012



FANTUZZI REGGIANE

MOZZO RUOTA
HUBA
MOYEUROUE
NABE
CUBO

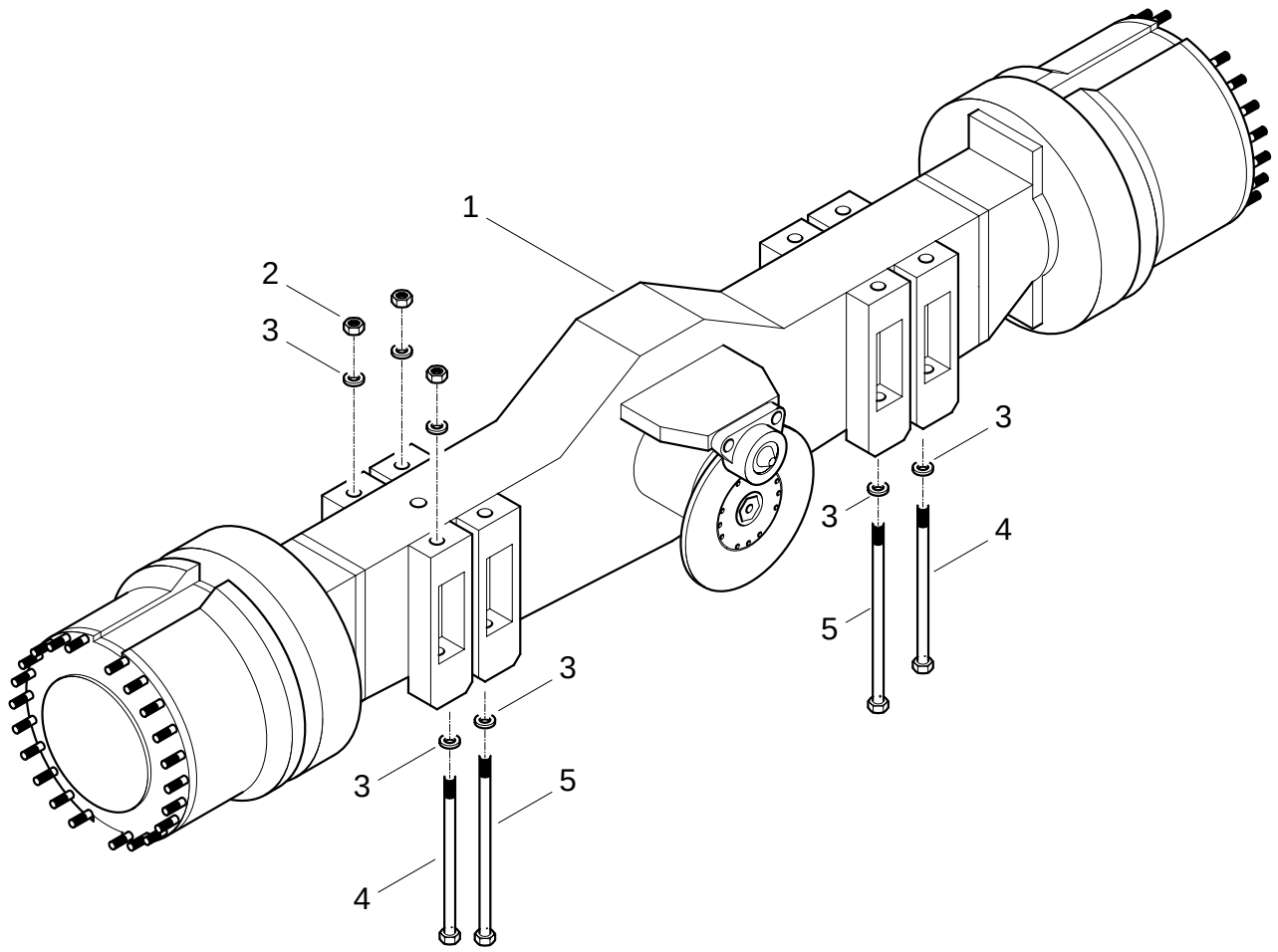
Tav. Tab. Taf.	25.B010.012	02/03
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https://truckmanualshub.com/

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2448.673004	1	assale differenziale	drive axle	essieu moteur	Treibachse	eje motriz
02	2900.070.0024	8	dado	nut	écrou hexagonaux	Mutter	tuerca
03	2900.111.0010	16	rosetta piana	flat washer	rondelle plate	Scheibe	arandela plana
04	2900.005.0117	4	vite	screw	vis	Schraube	tornillo
05	2900.005.0116	4	vite	screw	vis	Schraube	tornillo

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30.A010.030



FANTUZZI REGGIANE

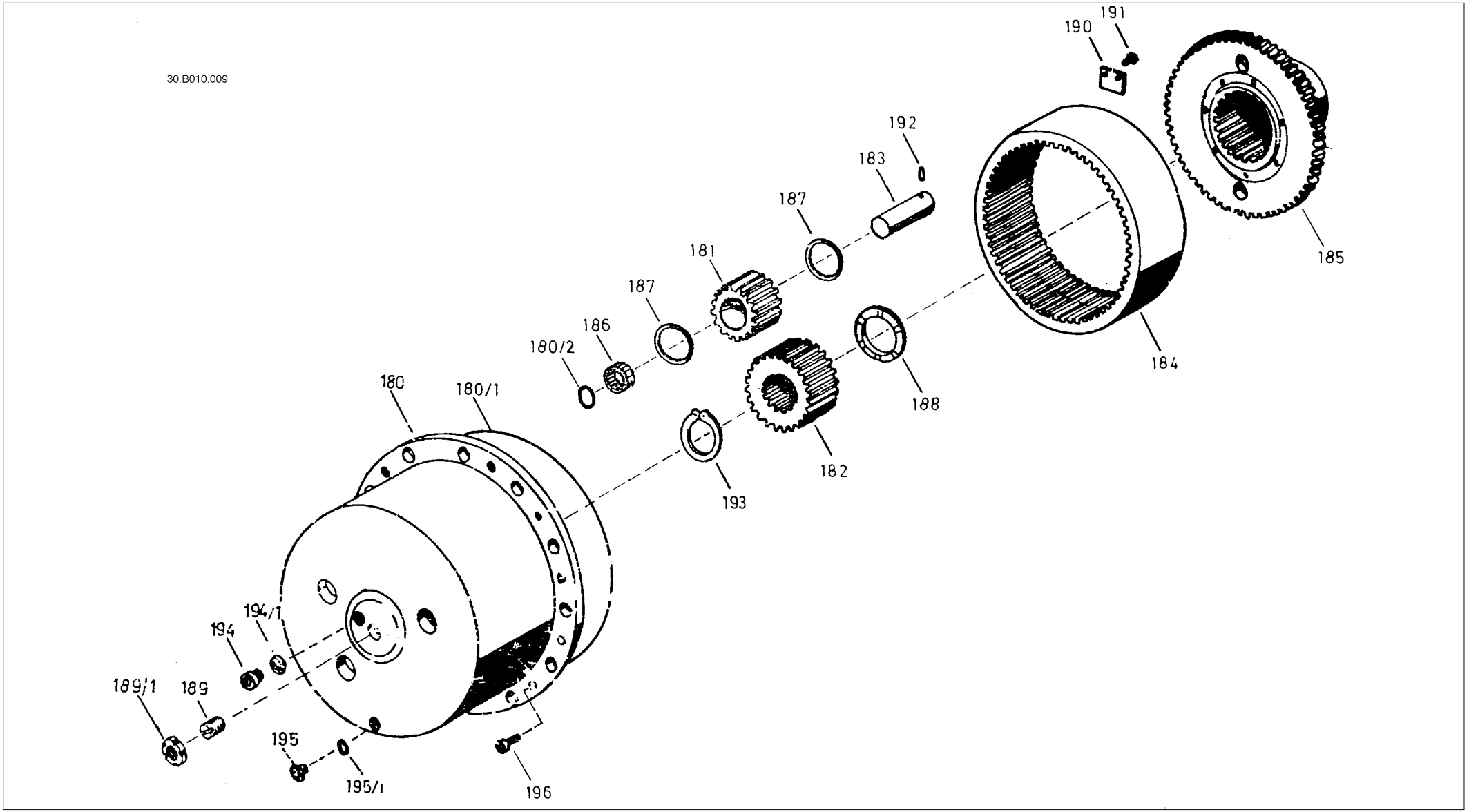
COMPONENTI PONTE FISSO
FIXED AXLE COMPONENTS
COMPOSANTS DU PONT FIXE
KOMPONENTEN FESTE BRÜCKE
COMPONENTES DEL PUENTE FIJO

Tav. Tab. Taf.	30.A010.037	02/03
		0

https://truckmanualshub.com/

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
180	1K.5072502051	2	mozzo	hub	moyeu	Radnabe	cubo
181	1K.507253103	8	ingranaggio	gear	engrenage	Zahnrad	engranaje
182	1K.507251183	2	ingranaggio satellite	planet gear	satellite	Planetenrad	piñón satélite
183	1K.507254034	8	spina	pin	axe	Bolzen	eje
184	1K.507252102	2	ingranaggio planetario	sun gear	planétaire	Achswellenrad	piñón planetario
185	1K.507255882	2	ruota dentata	inner gear	roue dentée	Zahnrad	rueda dentada
186	2426.055.0002	24	gabbia rullini	needle roller cage	cage de roulements	Nadelkäfig	jaula de agujas
187	1K.509.256.25	16	rosetta	washer	rondelle	Scheibe	arandela
188	1K.507249064	2	anello	mutter	bague	Springring	anillo
189	1K.507258015	2	vite	screw	vis	Schraube	tornillo
190	1K.507247024	6	lamierino	retainer	arrêtoir	Halteblech	chapa de retén
191	2900.005.0053	12	vite	screw	vis	Schraube	tornillo
192	2900.160.0001	8	spina elastica	taper pin	goupille élastique	Kegelstift	pasador
193	2900.140.0020	2	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
194	2333.052.0001	2	tappo	cap	bouchonn	Verschlußdeckel	tapon
195	2333.052.0003	2	tappo	cap	bouchonn	Verschlußdeckel	tapon
196	2900.015.0013	12	vite	screw	vis	Schraube	tornillo
180/1	2OR280X3	2	anello	mutter	bague	Springring	anillo
180/2	2OR35-2	8	anello	mutter	bague	Springring	anillo
189/1	2900.190.0002	2	ghiera	ring nut	écrou	Gewindering	tuerca
194/1	2333.068.0004	2	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
195/1	2333.068.0005	2	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén

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FANTUZZI REGGIANE

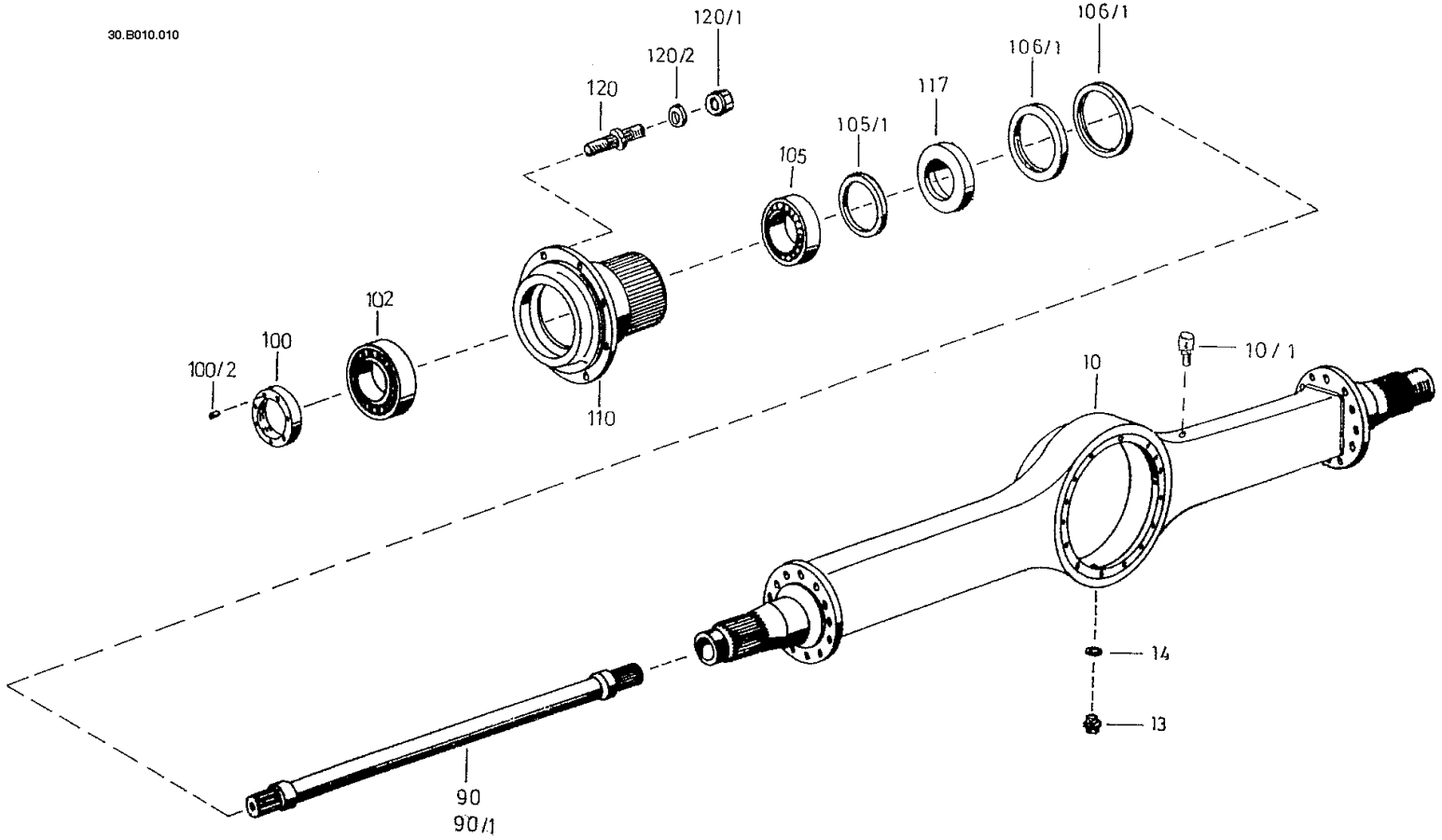
MOZZO RUOTA
HUBA
MOYEUROUE
NABE
CUBO

Tav. Tab. Taf.	30.B010.009	02/03 0

https://truckmanualshub.com/

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
10	1K.81.7084AG	1	carter	housing	carter	Gehäuse	cárter
13	2333.052.0003	1	tappo	cap	bouchonn	Verschlußdeckel	tapon
14	2333.068.0005	1	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
90	1K.81.4854.2	2	semiasse	axle shaft	arbre de rue	Steckachse	semieje
100	1K.507270113	2	ghiera	ring nut	écrou	Gewindering	tuerca
10/1	1K.1002.01.00	1	sfiato	breather pipe	reniflard	Entlüfter	respiradero
102	2426.070.0002	2	cuscinetto a rulli	roller bearing	roulement à rouleaux	Rollenlager	rodamiento de rodillos
105	2426.070.0010	2	cuscinetto a rulli	roller bearing	roulement à rouleaux	Rollenlager	rodamiento de rodillos
110	1K.81.5424.1	2	mozzo ruota	hub	moyeu roue	Nabe	cubo
117	1K.81.4908.4	2	anello	mutter	bague	Springring	anillo
120	1K.8154143.P2	20	colonnetta	hollow stud	goujon	Dorn	distanciador
100/2	2900.015.0020	2	vite	screw	vis	Schraube	tornillo
105/1	1K.81.4934.4	2	anello	mutter	bague	Springring	anillo
106/1	2294.159.0001	4	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
120/1	29846061	20	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
120/2	2900.111.0010	20	rosetta piana	flat washer	rondelle plate	Scheibe	arandela plana

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MOZZO RUOTA
HUBA
MOYEUROUE
NABE
CUBO

Tav. Tab. Taf.	30.B010.029	02/03
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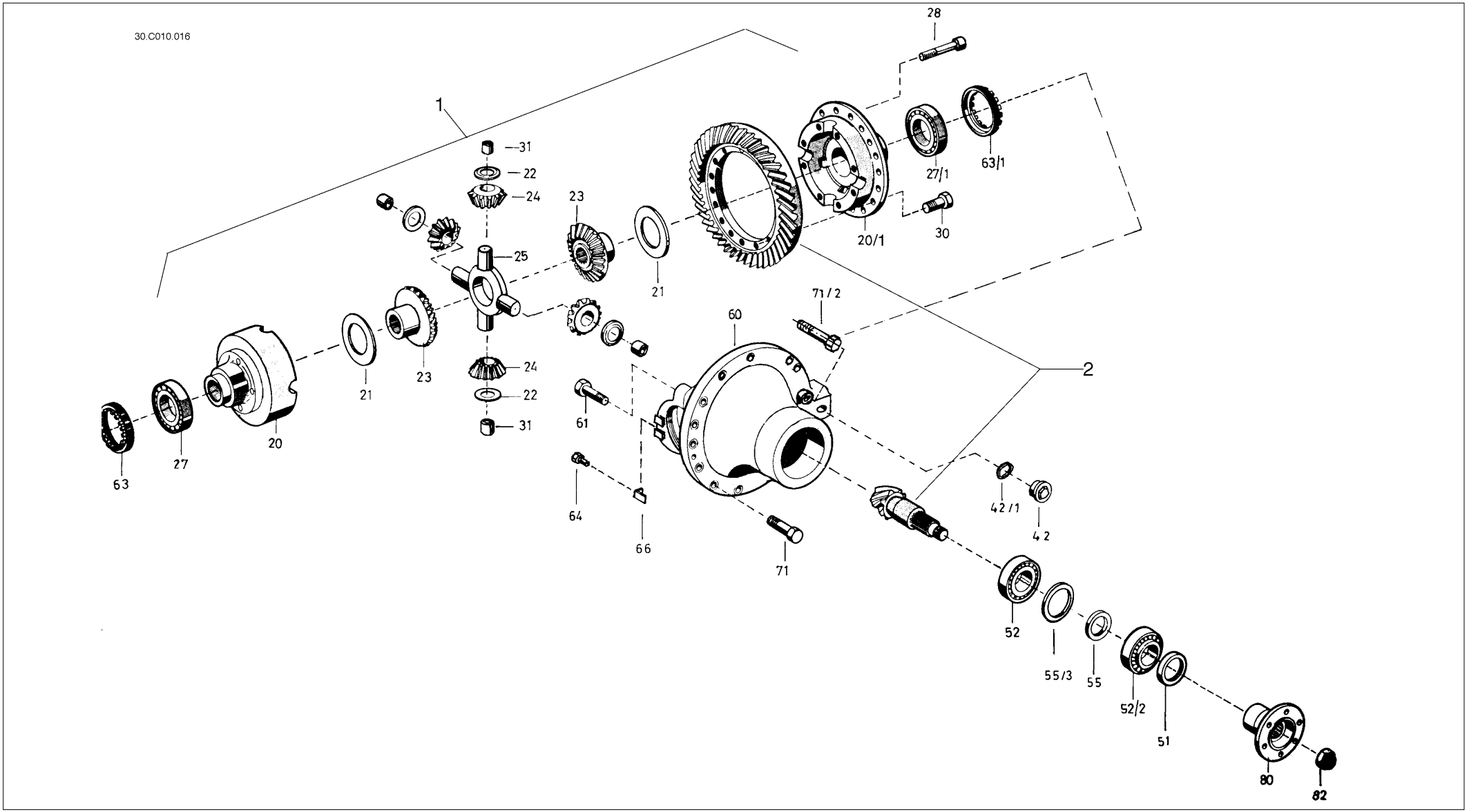
Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	1K.51/134.1	1	differenziale	differential	différentiel	Differential	diferencial
02	1K.51/146.1	1	coppia conica	crown and pinion set	couple conique	Kegelräderpaar	par conico
20	1K.71.3378.2	1	carter	housing	carter	Gehäuse	cárter
21	1K.71.552.4	2	rosetta	washer	rondelle	Scheibe	arandela
22	1K.71.2935.4	4	rosetta	washer	rondelle	Scheibe	arandela
23	1K.71.786.2	2	ingranaggio planetario	sun gear	planétaire	Achswellenrad	piñón planetario
24	1K.71.785.2	4	ingranaggio satellite	planet gear	satellite	Planetenrad	piñón satélite
25	1K.71.784.3	1	crociera	spider	croisillon	Kreuzstück	cruceta
27	2426.070.0008	1	cuscinetto	bearing	roulement	Lager	rodamiento
28	2900.005.0028	8	vite	screw	vis	Schraube	tornillo
30	2900.005.0047	16	vite	screw	vis	Schraube	tornillo
31	1K.71.783.5	4	boccola	bushing	palier	Lagerteil	casquillo
42	2333.052.0007	1	tappo	cap	bouchonn	Verschlußdeckel	tapon
51	2294.160.0001	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
52	31314	1	cuscinetto	bearing	roulement	Lager	rodamiento
55	1K.51.958.4	1	anello	mutter	bague	Springring	anillo
60	1K.51.1651.0	1	carter	housing	carter	Gehäuse	cárter
61	2900.005.0048	4	vite	screw	vis	Schraube	tornillo
63	1K.51.035.3	1	dado	nut	écrou hexagonaux	Mutter	tuerca
64	2900.005.0031	2	vite	screw	vis	Schraube	tornillo
66	1K.106.060.15	2	blocco leva	lever lock	bloc levier	Hebelsperre	bloqueo de palanca
71	2900.005.0047	14	vite	screw	vis	Schraube	tornillo
80	1K.51.3197.3	1	flangia	flange	bride	Flansch	brida
82	1K.71.2702.4	1	dado a corona	hexagon castle nut	écrou à créneaux	Kronenmutter	tuerca hexagonal
20/1	1K.71.1670.2	1	differenziale	differential	différentiel	Differential	diferencial
27/1	2426.070.0003	1	cuscinetto	bearing	roulement	Lager	rodamiento

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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
42/1	2333.068.0007	1	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
52/2	31312	1	cuscinetto	bearing	roulement	Lager	rodamiento
55/3	1K.51.957.4	1	disco	disc	disque	Scheibe	disco
63/1	1K.51.921.3	1	dado	nut	écrou hexagonaux	Mutter	tuerca
71/2	2900.005.0051	2	vite	screw	vis	Schraube	tornillo

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FANTUZZI REGGIANE

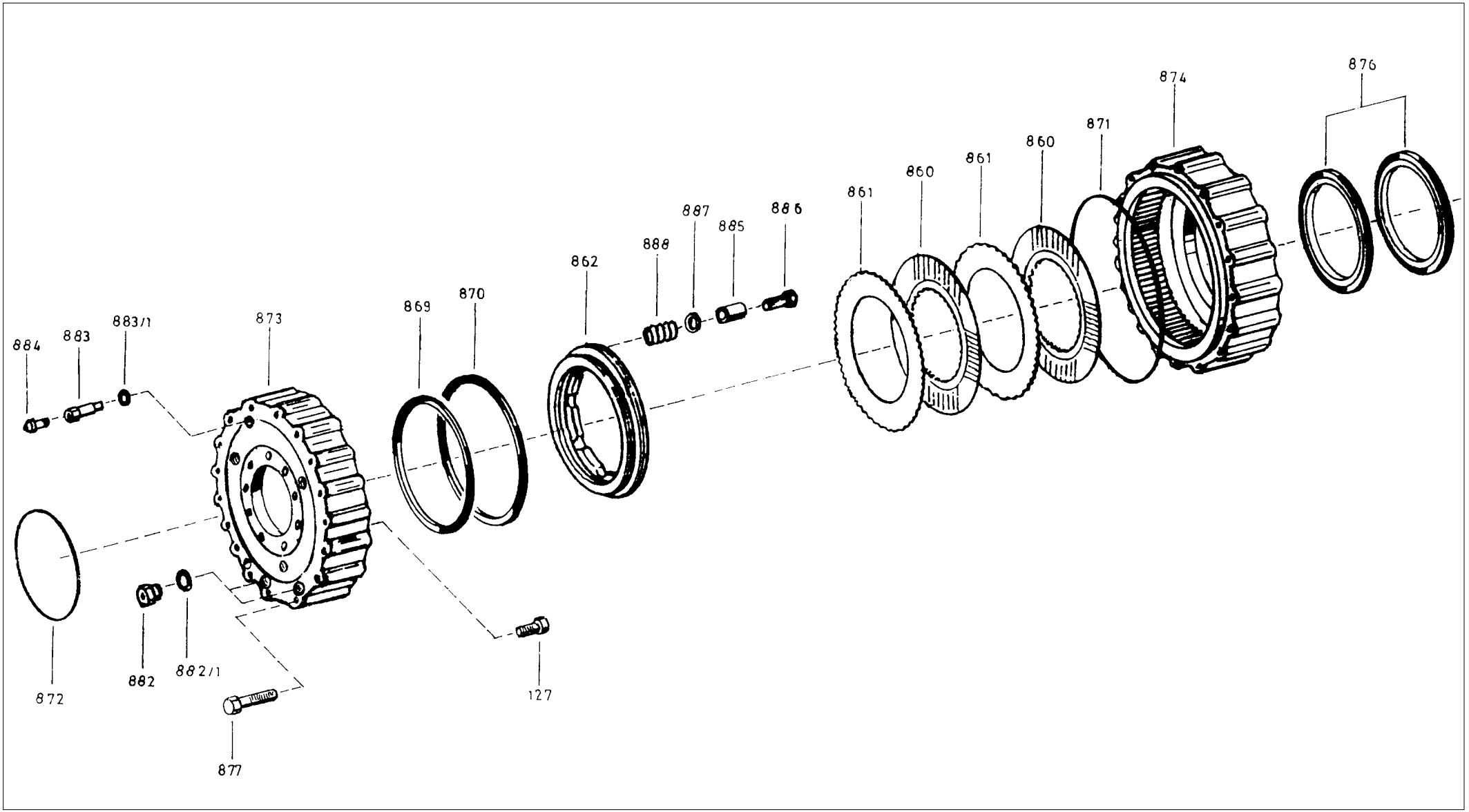
DIFFERENZIALE
DIFFERENTIAL AXLE
PONT DIFFERENTIEL
DIFFERENTIAL
DIFERENCIAL

Tav. Tab. Taf.	30.C010.024	02/03 0

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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
127	2900.015.0006	40	vite	screw	vis	Schraube	tornillo
860	1K.507275293	10	disco interno				
861	1K.507275223	10	disco esterno				
862	1K.509275833	2	pistone	piston	piston	Kolben	pistón
869	2OR275X4	2	anello or	o-ring	joint torique	O-ring	o-ring (junta tórica)
870	2OR297X4	2	guarnizione	gasket	joint	Abdichtprofil	junta
871	2OR380X4	2	anello or	o-ring	joint torique	O-ring	o-ring (junta tórica)
872	2OR220X3	2	anello or	o-ring	joint torique	O-ring	o-ring (junta tórica)
873	1K.509275821	2	supporto freno	brake housing	support de frein	Bremslager	soporte de freno
874	1K.509275632	2	carter	housing	carter	Gehäuse	cárter
876	1K.76.97H.24	2	guarnizione	gasket	joint	Abdichtprofil	junta
877	2900.005.0051	32	vite	screw	vis	Schraube	tornillo
882	2333.052.0005	4	tappo	cap	bouchonn	Verschlußdeckel	tapon
883	1K.335100800	2	vite	screw	vis	Schraube	tornillo
884	1K.3351815012	1	sfiato	breather pipe	reniflard	Entlüfter	respiradero
885	1K.507275494	24	boccola	bushing	palier	Lagerteil	casquillo
886	2900.005.0005	24	vite	screw	vis	Schraube	tornillo
888	1K.VD257C	24	molla	spring	ressort	Federelement	muelle
882/1	2333.068.0002	4	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
883/1	2333.068.0003	2	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén

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GRUPPO FRENO
BRAKE ASSY
GROUPE FREINA
BREMSEN GRUPPE
FRENO

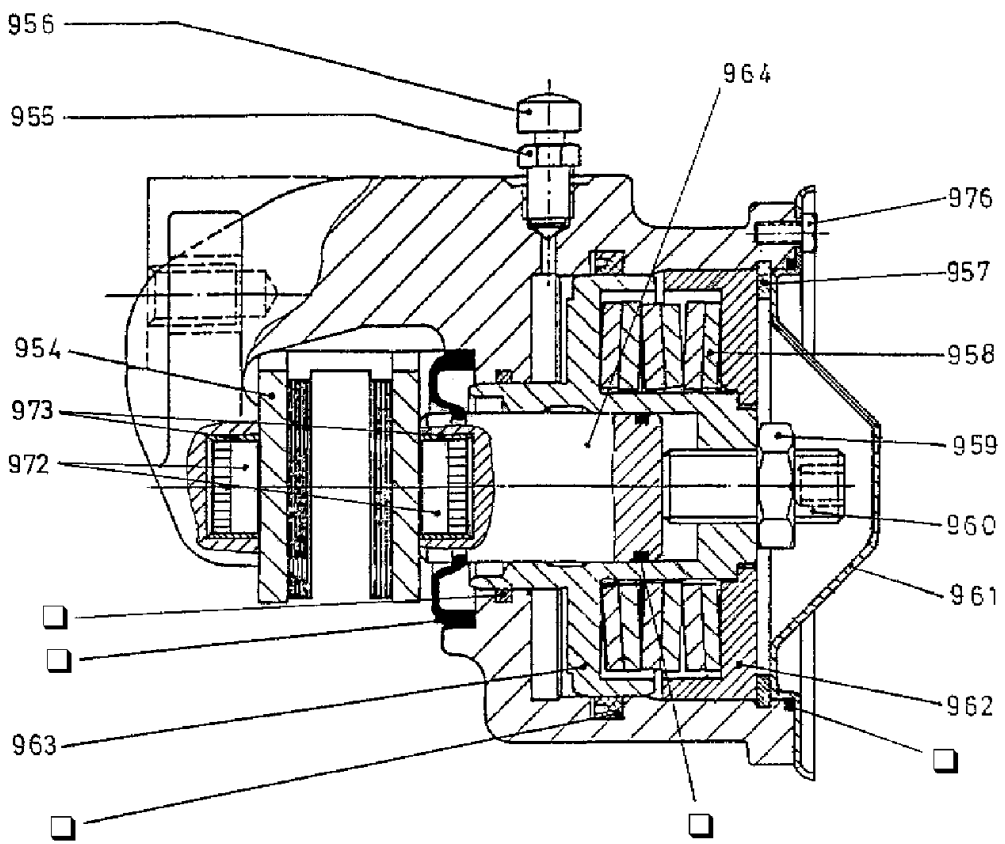
Tav. Tab. Taf.	30.D010.009	02/03
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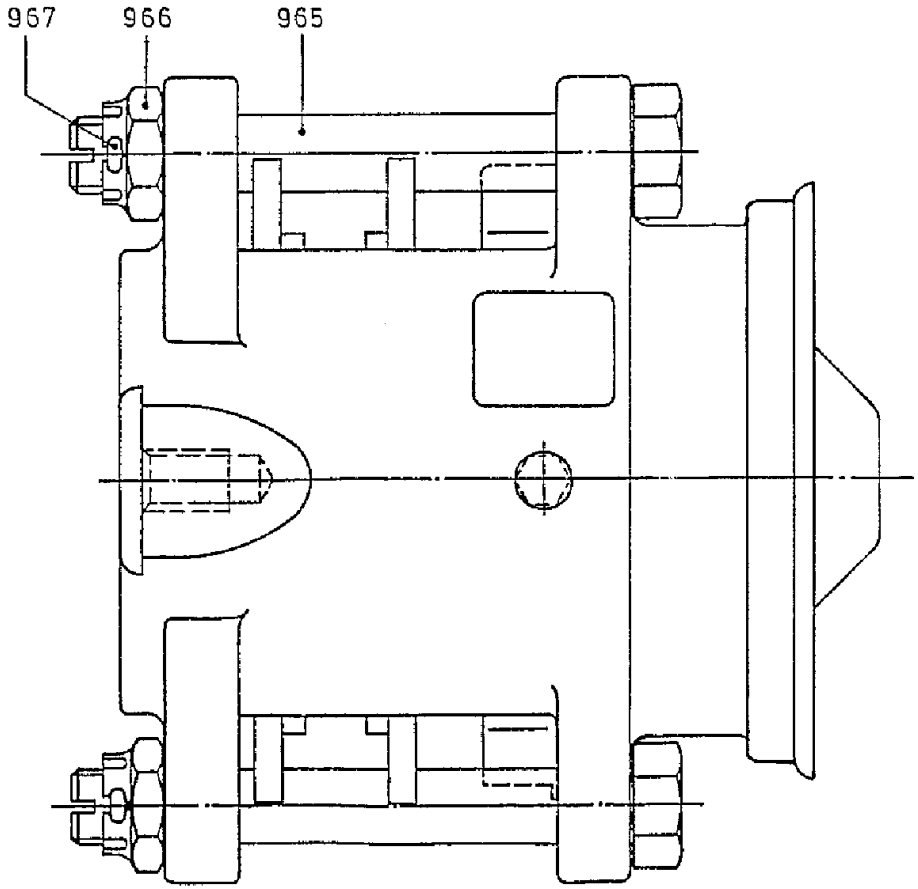
https://truckmanualshub.com/

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
954	1K.12.182.091	2	pattino	shoe	patin	Gleitschuh	patín
955	1K.16.200.152	1	valvola di spurgo	bleed valve	purgeur	Ablaßventil	purgador
956	1K.16.200.141	1	tappo	cap	bouchonn	Verschlußdeckel	tapon
957	1K.18.458.036	1	anello	mutter	bague	Springring	anillo
958	1K.12.303.003	1	molla a tazza	cup spring	ressort à godets	Becherfeder	muelle cónico
959	1K.18.442.013	1	dado	nut	écrou hexagonaux	Mutter	tuerca
960	1K.18.425.475	1	vite registro	set screw	vis de réglage	Einstellschraube	tornillo de reglaje
961	1K.13.230.075	1	coperchio	cover	couvercle	Deckel	tapa
962	1K.13.701.070	1	rosetta	washer	rondelle	Scheibe	arandela
963	1K.13.477.053	1	pistone	piston	piston	Kolben	pistón
964	1K.13.229.167	1	pistone	piston	piston	Kolben	pistón
965	1K.18.429.469	2	vite	screw	vis	Schraube	tornillo
966	1K.18.444.000	2	dado	nut	écrou hexagonaux	Mutter	tuerca
967	1K.18.530.027	2	copiglia	split pin	goupille fendue	Splint	pasador abierto
972	1K.17.861.001	2	magnete	magnet	magnéto	Magnet	magneto
973	1K.17.665.107	2	anello	mutter	bague	Springring	anillo
975	1K.12.999.473	1	kit guarnizioni	seal kit	kit de joints	Dichtungsatz	juego de juntas
976	1K.18.429.151	3	vite	screw	vis	Schraube	tornillo

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30.D020.002







❑ = 975

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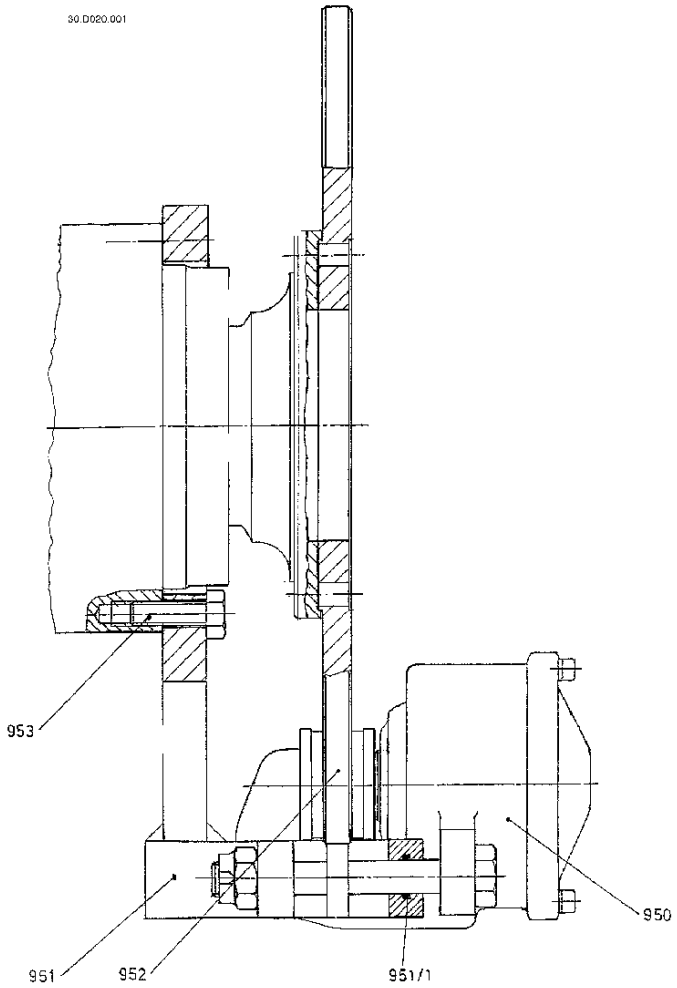
FRENO A MANO
HANDBRAKE
FREIN A MAIN
HANDBREMSE
FRENO DE MANO

Tav. Tab. Taf.	30.D020.002	02/03 1

https://truckmanualshub.com/

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
950	1K.40.023.005	1	freno	brake	frein	Bremse	freno
951	1K.81.7090.1	1	supporto freno	brake housing	support de frein	Bremslager	soporte de freno
952	1K.81.5341.3	1	disco freno	brake disc	disque frein	Bremsscheibe	disco de freno
953	2900.005.0052	7	vite	screw	vis	Schraube	tornillo
951/1	2OR16X4	2	anello or	o-ring	joint torique	O-ring	o-ring (junta tórica)

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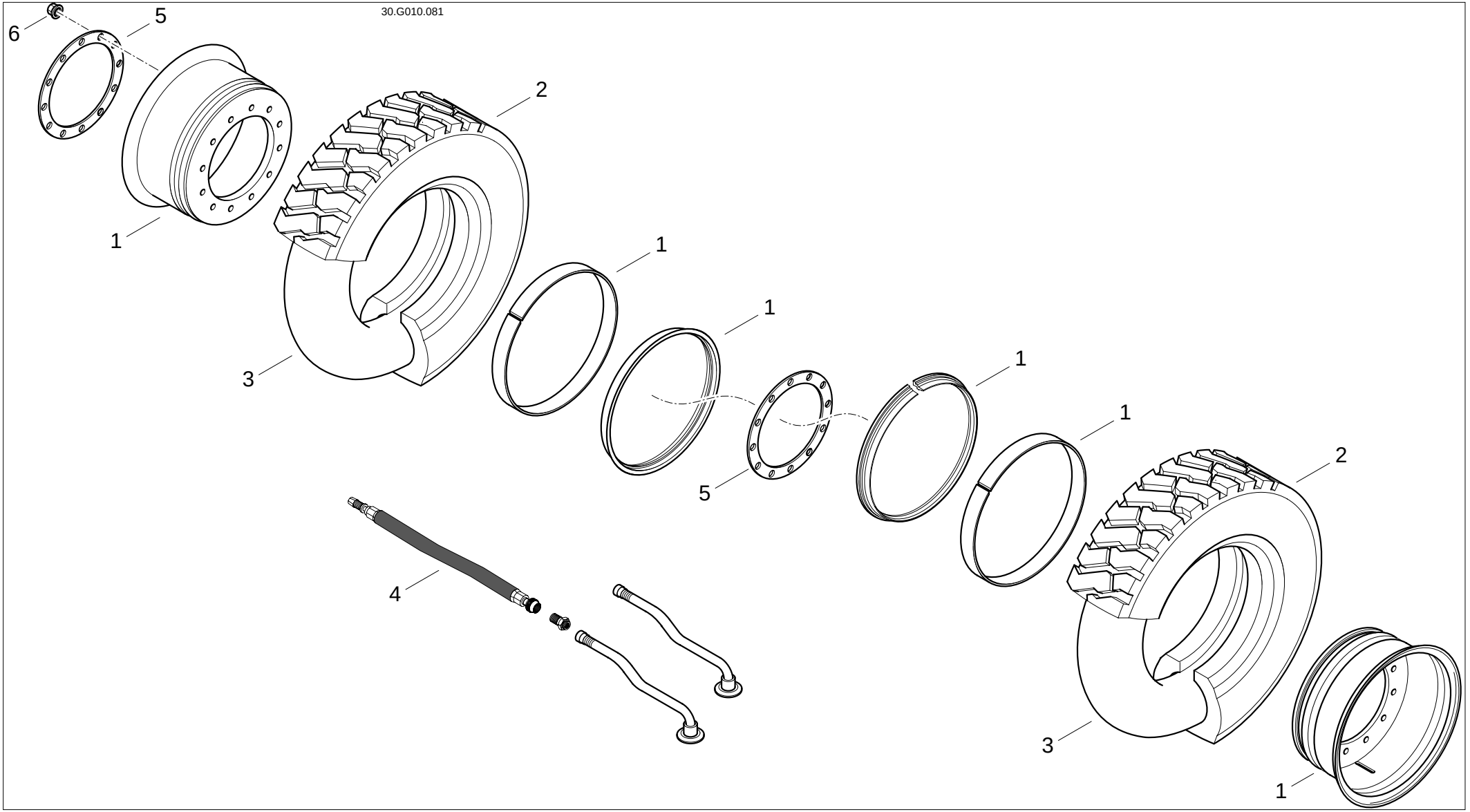
FRENO A MANO
HANDBRAKE
FREIN A MAIN
HANDBREMSE
FRENO DE MANO

Tav. Tab. Taf.	30.D020.015	02/03
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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2378.040.0001	4	cerchio ruota	wheel rim	jante	Radkranz	llanta
02	2640.070.0002	4	pneumatico	tyre	pneu	Reifen	neumático
03	29875990	4	camera d'aria	air tube	chambre à air	Schlauch	cámara de aire
04	29860728	2	prolunga	extension	rallonge	Verlängerungsstück	extensión
05	2448.743005	4	anello	mutter	bague	Springring	anillo
06	2M22X1,5	20	dado	nut	écrou hexagonaux	Mutter	tuerca

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FANTUZZI REGGIANE

RUOTE ANTERIORI
FRONT WHEELS
ROUES AVANT
VORDERRADER
RUEDA ANTERIORI

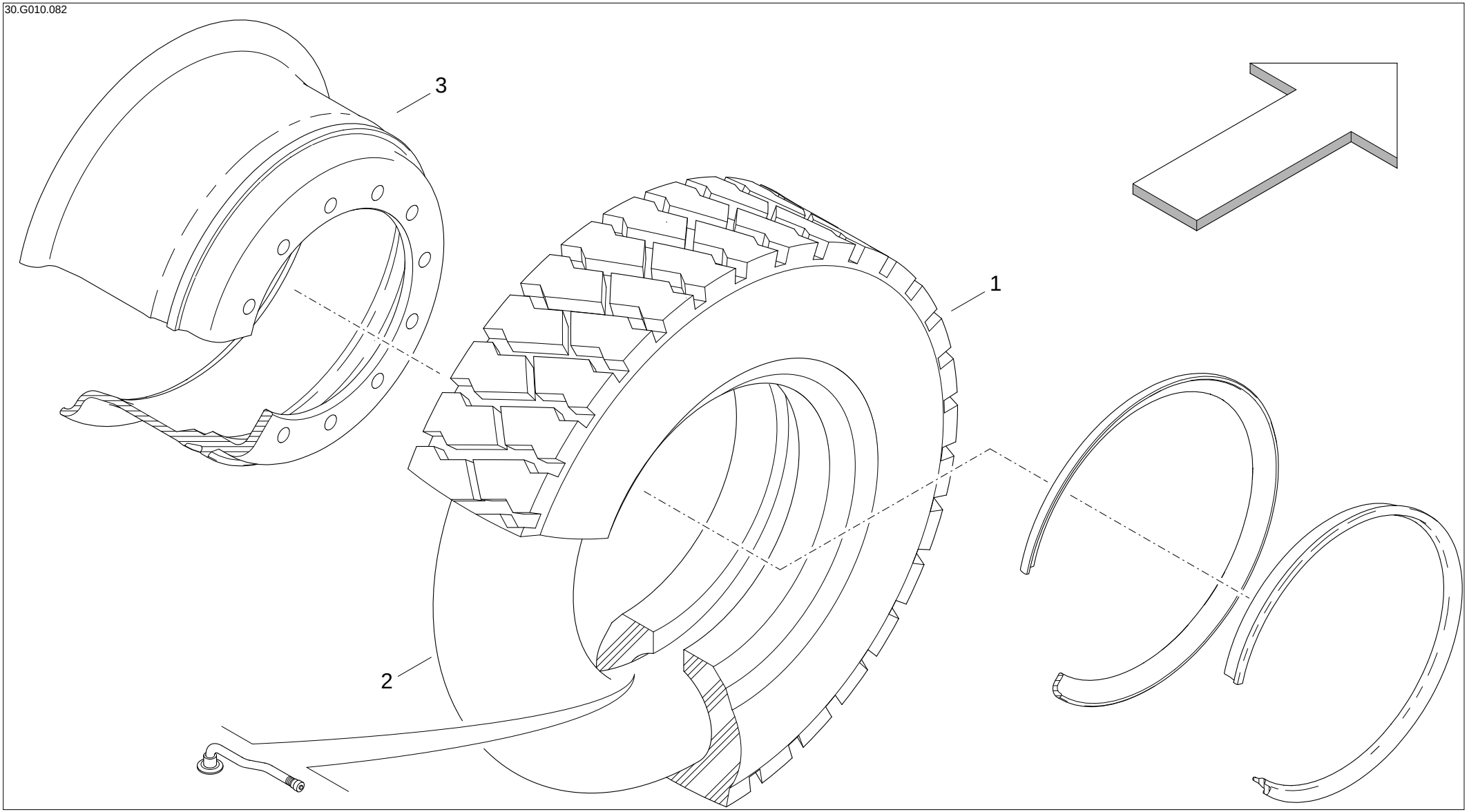
Tav. Tab. Taf.	30.G010.095	02/03
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https://truckmanualshub.com/

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2640.070.0002	2	pneumatico	tyre	pneu	Reifen	neumático
02	29875990	2	camera d'aria	air tube	chambre à air	Schlauch	cámara de aire
03	2378.040.0002	2	cerchio ruota	wheel rim	jante	Radkranz	llanta

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30.G010.082



FANTUZZI REGGIANE

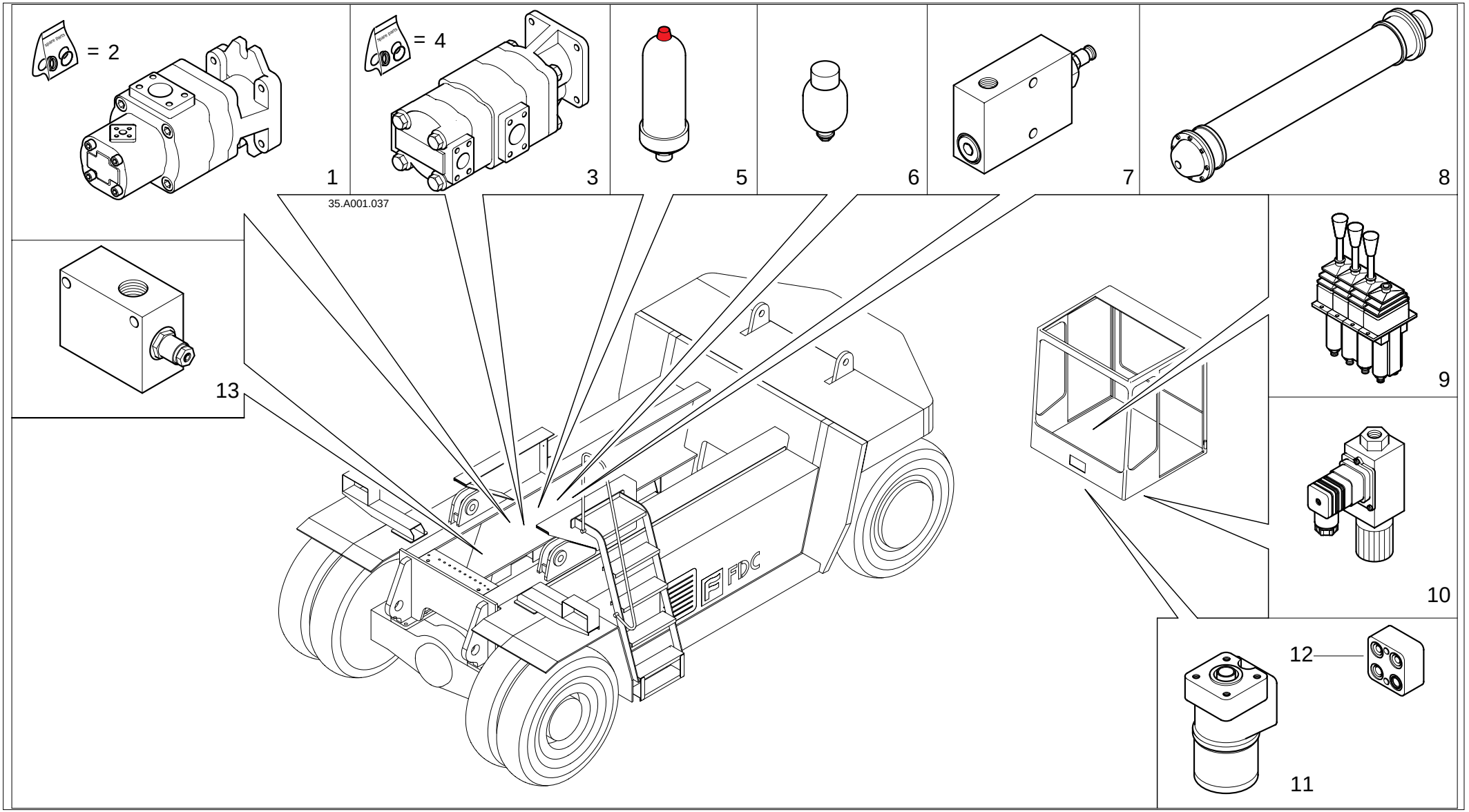
RUOTE POSTERIORI
REAR WHEELS
ROUES ARRIER
HINTERRADER
RUEDA POSTERIOR

Tav. Tab. Taf.	30.G010.096	02/03
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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2204.010.0037	1	pompa	pump		Pumpe	bomba
02	4C.3898680101	1	kit guarnizioni	seal kit	kit de joints	Dichtungsatz	juego de juntas
03	2204.633503	1	pompa	pump		Pumpe	bomba
04	4C.3911802684	1	kit guarnizioni	seal kit	kit de joints	Dichtungsatz	juego de juntas
05	2302.000.0001	2	accumulatore	accumulator	accumulateur	Akkumulator	acumulador
06	2302.883501	2	accumulatore	accumulator	accumulateur	Akkumulator	acumulador
07	2266.963510	1	valvola lim. di pressione	pressure limit valve	limiteur de pression	Druckbegrenzungsventil	válvula limpiadora de
08	29875218	1	scambiatore	exchanger	échangeur	Kühler	cambiador
09	2185.613502	1	manipolatore	servocontrol	servocommande	Servosteuerung	servocontrol
10	2870.734501	2	pressostato	pressure switch	pressostat	Druckwächter	presostato
11	29380923	1	idroguida	power steering	direction hydraulique	Hydrolenkung	dirección hidráulica
12	29875182	1	valvola	valve	soupape	Ventil	válvula
13	2266.050.0001	1	valvola	valve	soupape	Ventil	válvula

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PARTICOLARI IDRAULICI SU TELAIO
HYDRAULIC COMPONENTS ON FRAME
PIECES HYDRAULIQUES SUR CHASSIS
HYDRAULIKTEILE AUF RAHMEN
PIEZAS HIDRAULICAS DEL CHASIS

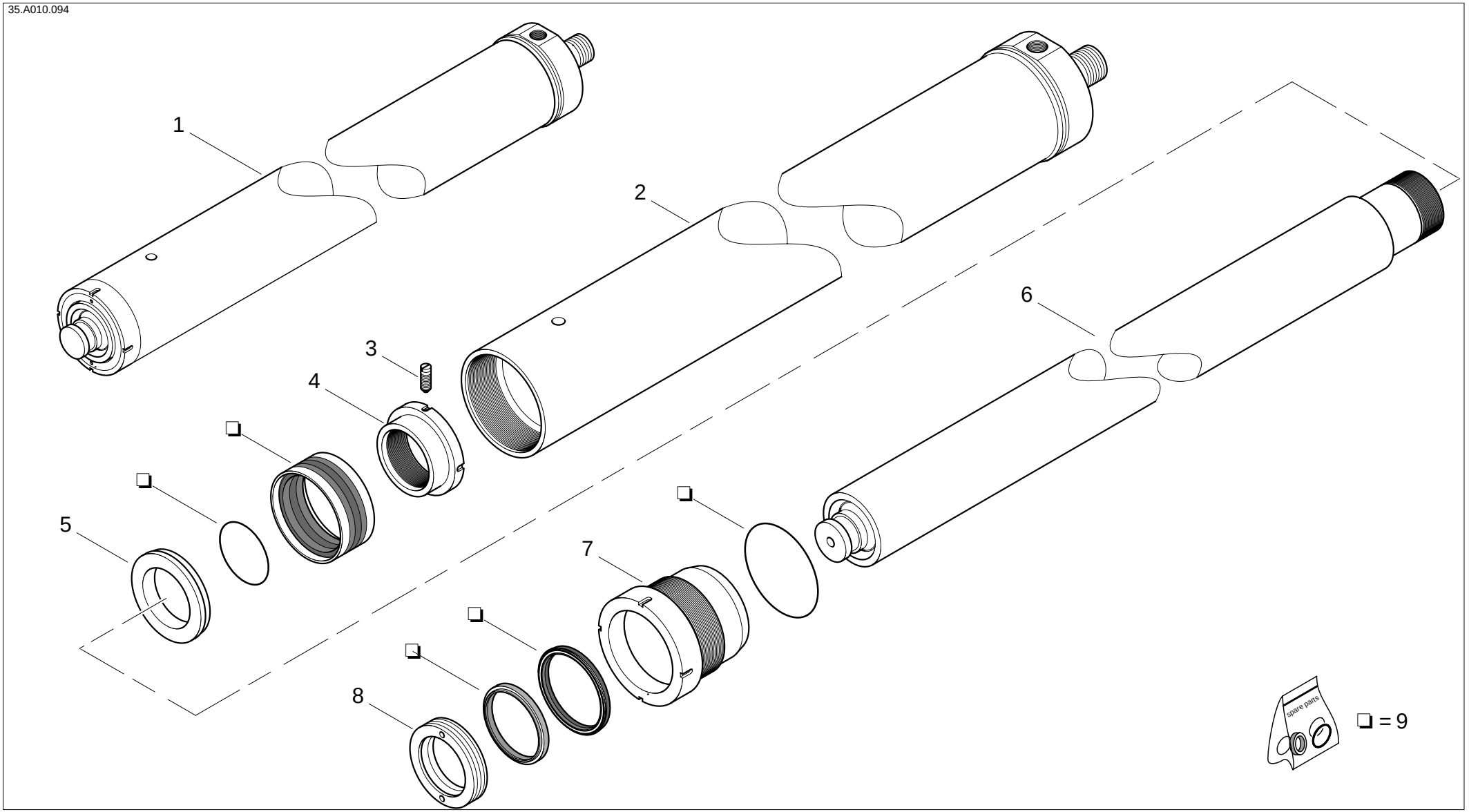
Tav. Tab. Taf.	35.A001.037	02/03
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https://truckmanualshub.com/

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	N2325T	1	cilindro sollevamento	lifting cylinder	vérin de levage	Hubzylinder	cilindro de elevacion
02	2690.010.0095	1	canna	liner	chemise	Zylindermantel	camisa
03	2900.035.0028	1	vite	screw	vis	Schraube	tornillo
04	2895.010.0093	1	pistone	piston	piston	Kolben	pistón
05	2895.010.0092	1	pistone	piston	piston	Kolben	pistón
06	2780.010.0096	1	stelo	rod	tige	Kolbenstange	varilla
07	2892.010.0074	1	testata	head	tête	Kopf	extremidad
08	2706.010.0027	1	flangia	flange	bride	Flansch	brida
09	2511.010.0094	1	kit guarnizioni	seal kit	kit de joints	Dichtungsatz	juego de juntas

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35.A010.094



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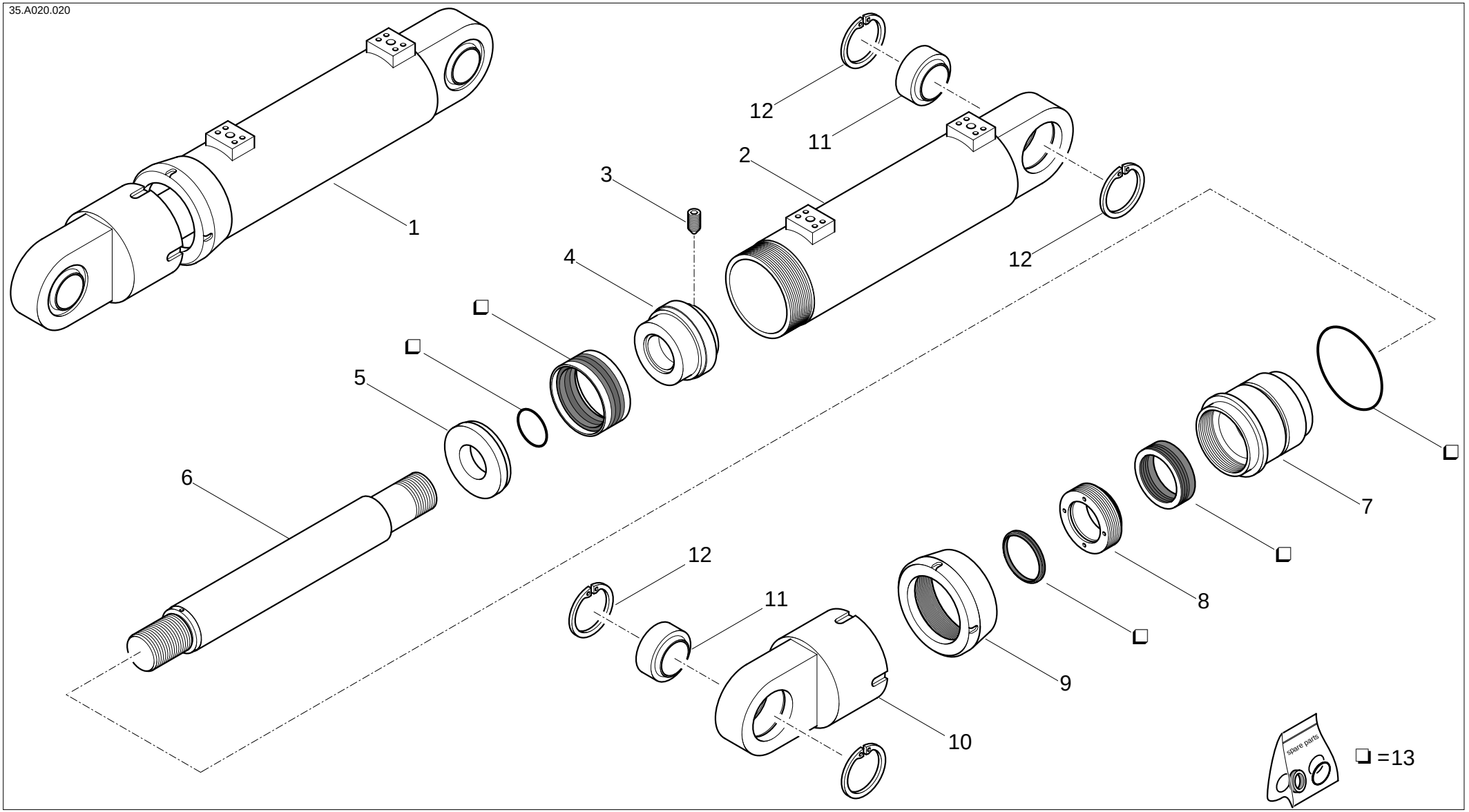
CILINDRO SOLLEVAMENTO
LIFTING CYLINDER
VÉRIN DE LEVAGE
HUBZYLINDER
CILINDRO DE ELEVACIÓ

Tav. Tab. Taf.	35.A010.094	02/03
		0

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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	M3786	1	cilindro brandeggio	tilt cylinder	vérin d'inclinasion	Schwenkzylinder	cilindro de maniobra del
02	2690.020.0013	1	canna	liner	chemise	Zylindermantel	camisa
03	2900.035.0007	2	vite	screw	vis	Schraube	tornillo
04	2895.020.0019	1	pistone	piston	piston	Kolben	pistón
05	2895.020.0018	1	pistone	piston	piston	Kolben	pistón
06	2780.020.0015	1	stelo	rod	tige	Kolbenstange	varilla
07	2892.020.0011	1	testata	head	tête	Kopf	extremidad
08	2691.010.0044	1	boccola	bushing	palier	Lagerteil	casquillo
09	2706.020.0010	1	ghiera	ring nut	écrou	Gewindering	tuerca
10	2426.160.0022	1	terminale	terminal tube	embout	Endrohr	tubo terminal
11	GE60TE2RS	2	snodo sferico	ball joint	rotule	Kugelgelenk	articulación
12	29816448	4	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
13	KM3786	1	kit guarnizioni	seal kit	kit de joints	Dichtungsatz	juego de juntas

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FANTUZZI REGGIANE

CILINDRO DI BRANDEGGIO
TYLTING CYLINDER
VERIN D' INCLINATION
SCHWENKZYLINDER
CILINDRO DE MANIOBRA DEL BRAZO

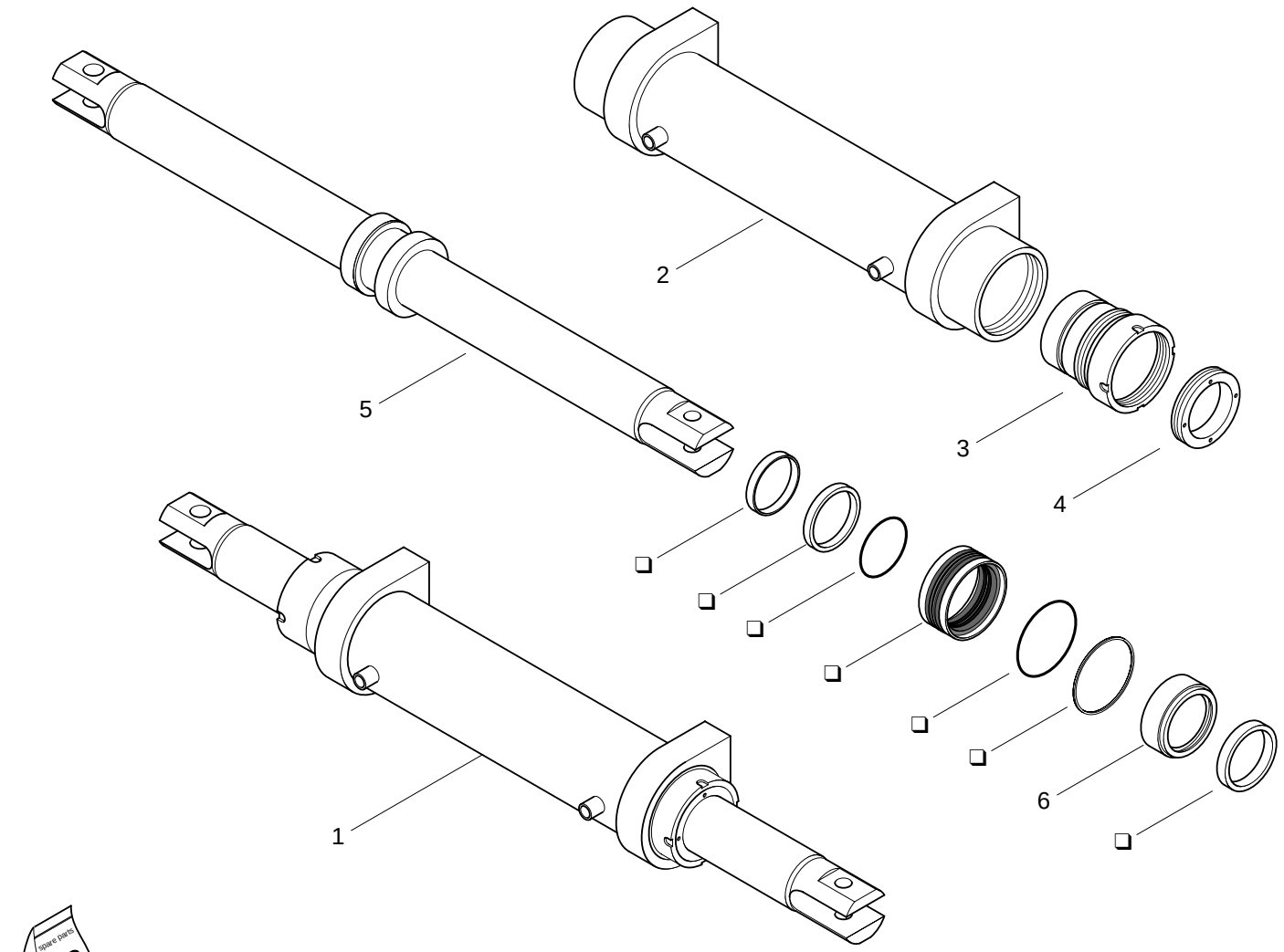
Tav. Tab. Taf.	35.A020.020	02/03
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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	Z2346T	1	cilindro sterzo	steering cylinder	vérin de direction	Lenkzylinder	cilindro de dirección
02	2690.040.0014	1	canna	liner	chemise	Zylindermantel	camisa
03	2892.040.0021	2	testata	head	tête	Kopf	extremidad
04	2706.040.0013	2	ghiera	ring nut	écrou	Gewindering	tuerca
05	2780.040.0016	1	stelo	rod	tige	Kolbenstange	varilla
06	2706.040.0012	1	ghiera	ring nut	écrou	Gewindering	tuerca
07	2511.040.0023	1	kit guarnizioni	seal kit	kit de joints	Dichtungsatz	juego de juntas

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35.A040.001



❑ = 7

FANTUZZI REGGIANE

CILINDRO STERZO
STEERING CYLINDER
VERIN DE DIRECTION
LENKZYLINDER
CILINDRO DE DIRECCION

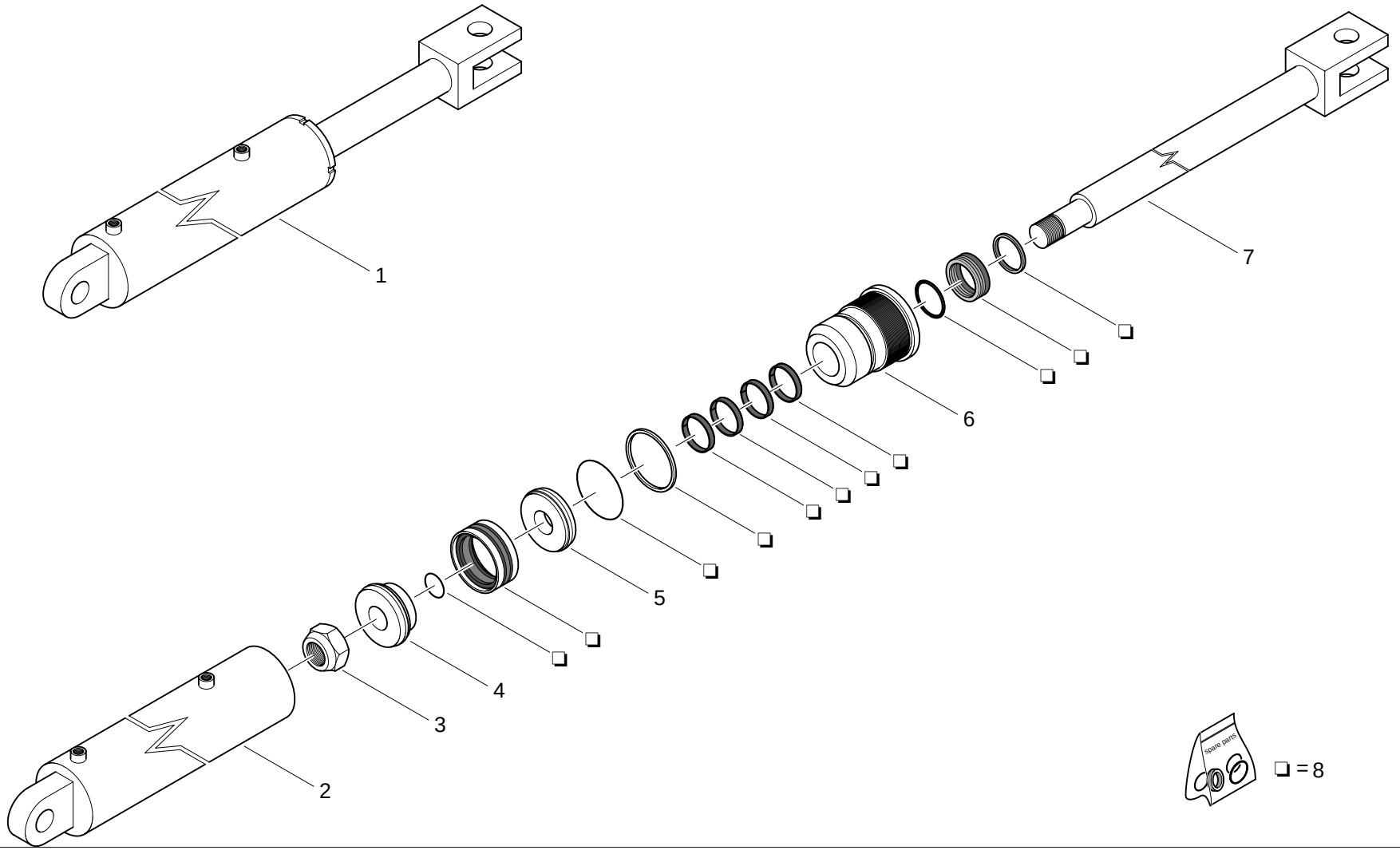
Tav. Tab. Taf.	35.A040.019	02/03
		0

https://truckmanualshub.com/

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	29876076	1	cilindro traslazione	translation cylinder	vérin de translation	Fahrtzylinder	cilindro de traslación
02	2690.070.0005	1	canna	liner	chemise	Zylindermantel	camisa
03	2900.080.0005	1	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
04	2895.070.0004	1	pistone posteriore	rear piston	piston postérieur	Hinterer Kolben	pistón posterior
05	2895.070.0003	1	pistone anteriore	front piston	piston antérieur	Vorderer Kolben	pistón anterior
06	29876126	1	testata	head	tête	Kopf	extremidad
07	2780.070.0006	1	stelo	rod	tige	Kolbenstange	varilla
08	2511.070.0007	1	kit guarnizioni	seal kit	kit de joints	Dichtungsatz	juego de juntas

https://truckmanualshub.com/

35.A070.002



FANTUZZI REGGIANE

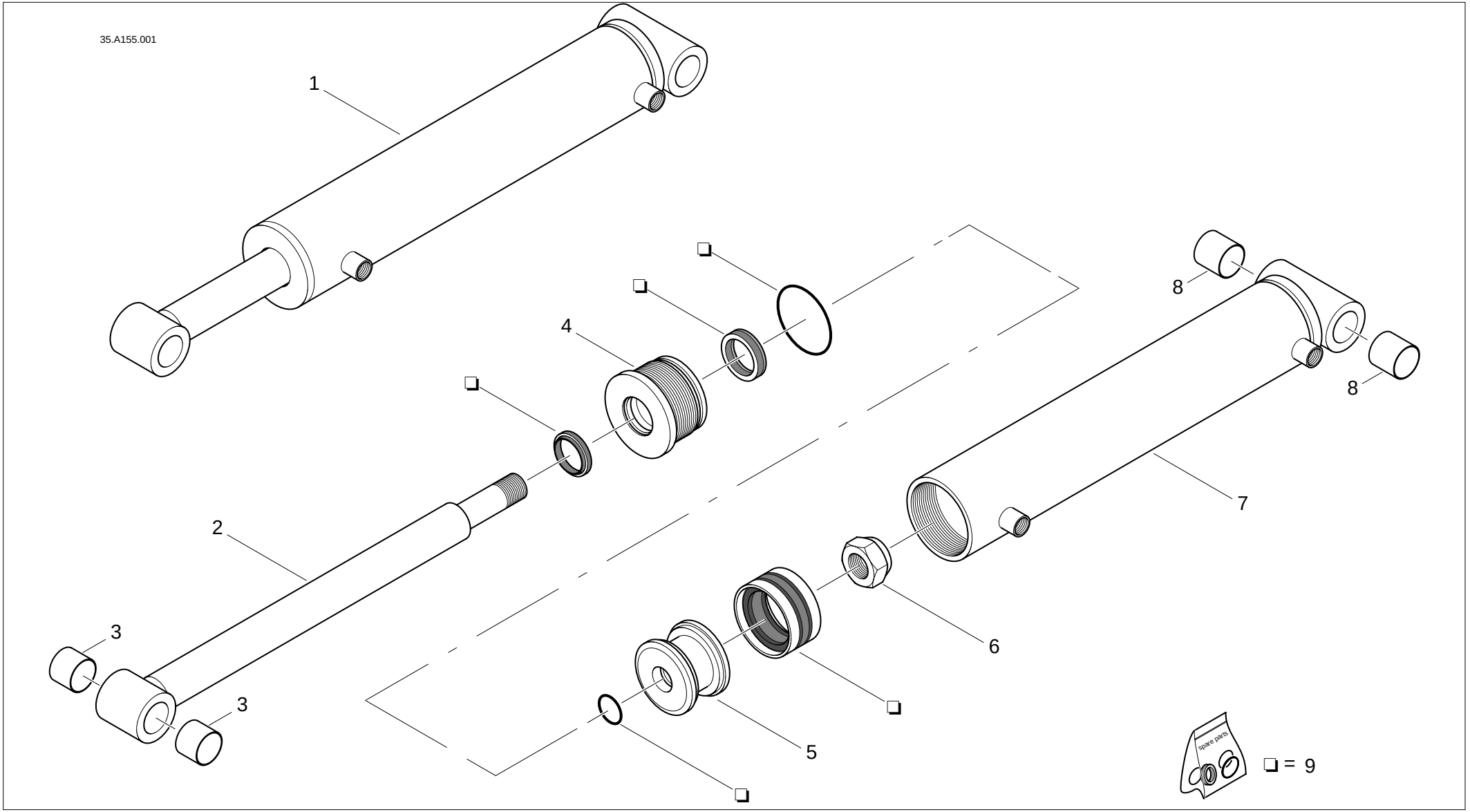
CILINDRO TRASLAZIONE
TRANSLATION CYLINDER
VERIN DE TRANSLATION
FAHRTZYLINDER
CILINDRO DE TRASLACION

Tav. Tab. Taf.	35.A070.003	02/03
		0

https://truckmanualshub.com/

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2144.635001	1	cilindro	cylinder	cylindre	Zylinder	cilindro
02	2780.155.0001	1	stelo	rod	tige	Kolbenstange	varilla
03	2229.200.0012	2	boccola	bushing	palier	Lagerteil	casquillo
04	2892.155.0001	1	testata	head	tête	Kopf	extremidad
05	2895.155.0001	1	pistone	piston	piston	Kolben	pistón
06	29846061	1	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
07	2690.155.0001	1	canna	liner	chemise	Zylindermantel	camisa
08	2229.200.0013	2	boccola	bushing	palier	Lagerteil	casquillo
09	2511.635001	1	kit guarnizioni	seal kit	kit de joints	Dichtungsatz	juego de juntas

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FANTUZZI REGGIANE

CILINDRO INCLINAZIONE CABINA
CABIN INCLINATION CYLINDER
VERIN D'INCLINAISON CABINE
NEIGEZYLINDER DER KABINE
CILINDRO DE INCLINACION DE LA CABINA

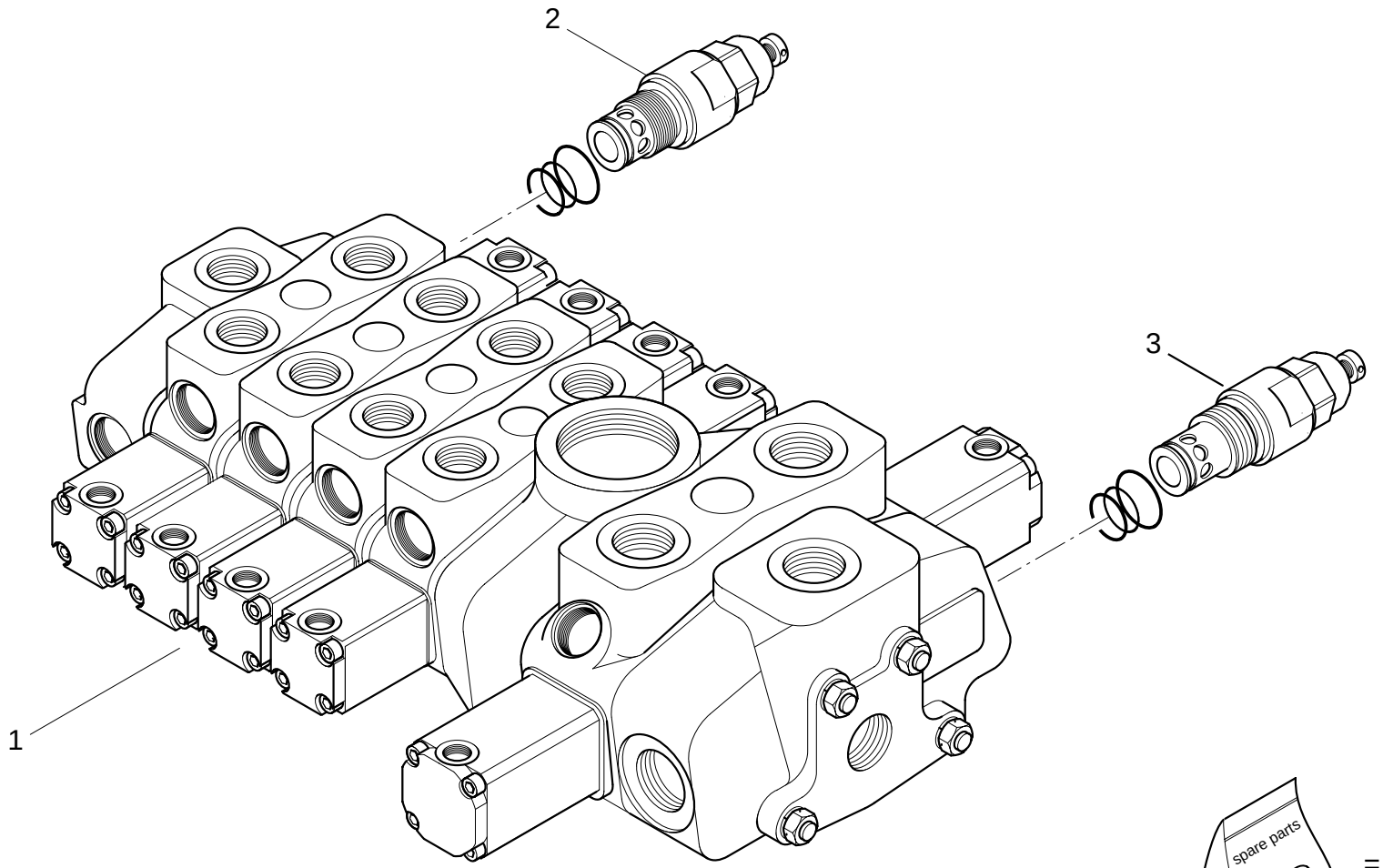
Tav. Tab. Taf.	35.A155.001	02/03
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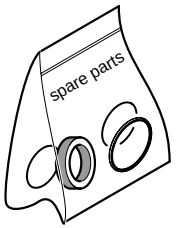
https://truckmanualshub.com/

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2154.673507	1	distributore	distributor	distributeur	Verteiler	distribuidor
02	2266.243502	1	valvola	valve	soupape	Ventil	válvula
03	2266.743501	1	valvola	valve	soupape	Ventil	válvula
04	1V.5GD17Z1108	1	kit guarnizioni	seal kit	kit de joints	Dichtungsatz	juego de juntas

https://truckmanualshub.com/

35.A180.017





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FANTUZZI REGGIANE

DISTRIBUTORE
DISTRIBUTOR
DISTRIBUTEUR
VERTEILER
DISTRIBUIDOR

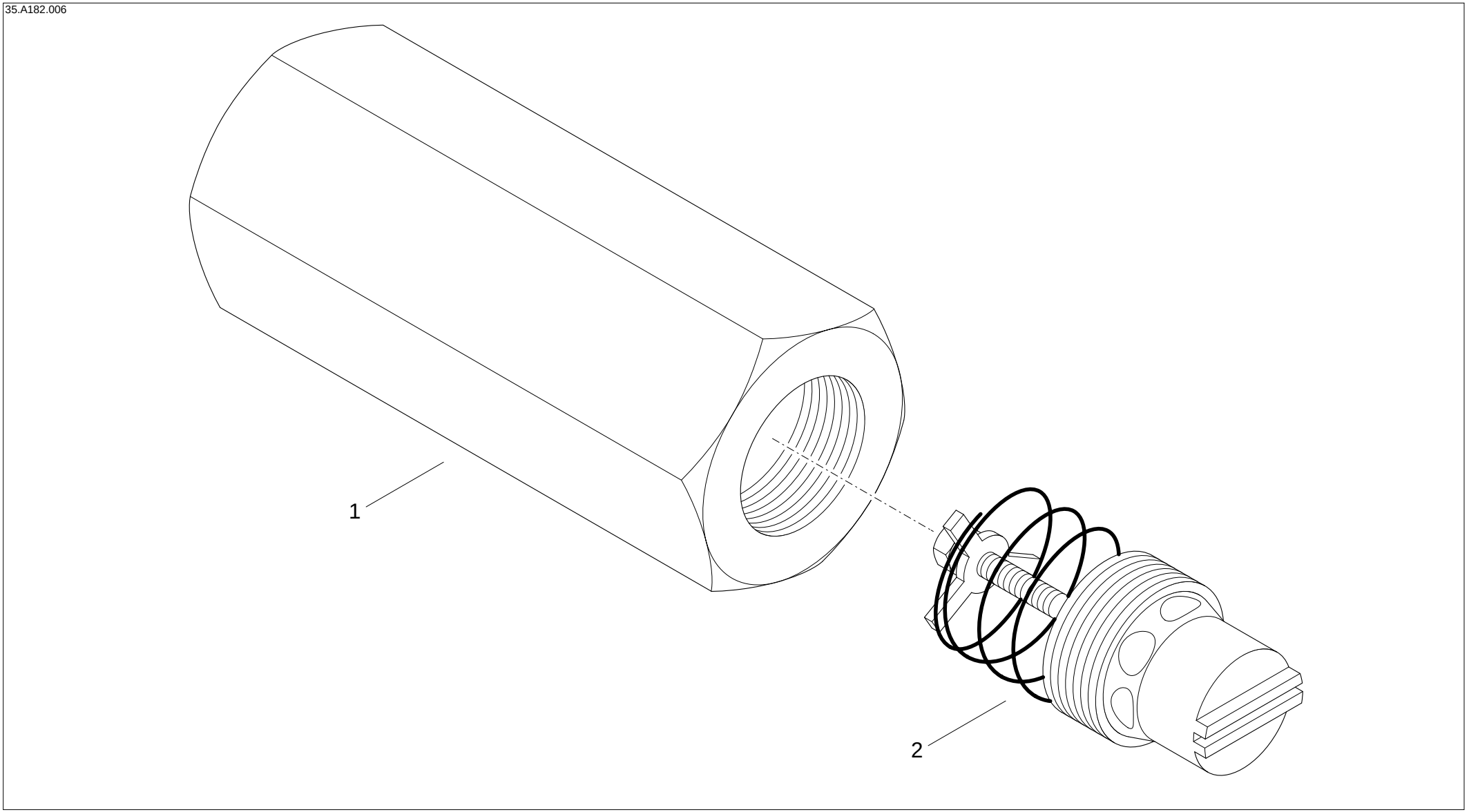
Tav. Tab. Taf.	35.A180.017	02/03
		0

https://truckmanualshub.com/

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	20351000063	1	colonnetta	hollow stud	goujon	Dorn	distanciador
02	29860535	1	valvola regol. flusso	flow control valve	soupape limit. débit	Stromregelventil	válvula de regul. flujo

https://truckmanualshub.com/

35.A182.006



FANTUZZI REGGIANE

VALVOLA REGOLATRICE DI FLUSSO
FLOW CONTROL VALVE
SOUPAPE RÉGULATRICE DÉBIT
STROMREGELVENTIL
VÁLVULA DE REGULACIÓN DEL FLUJO

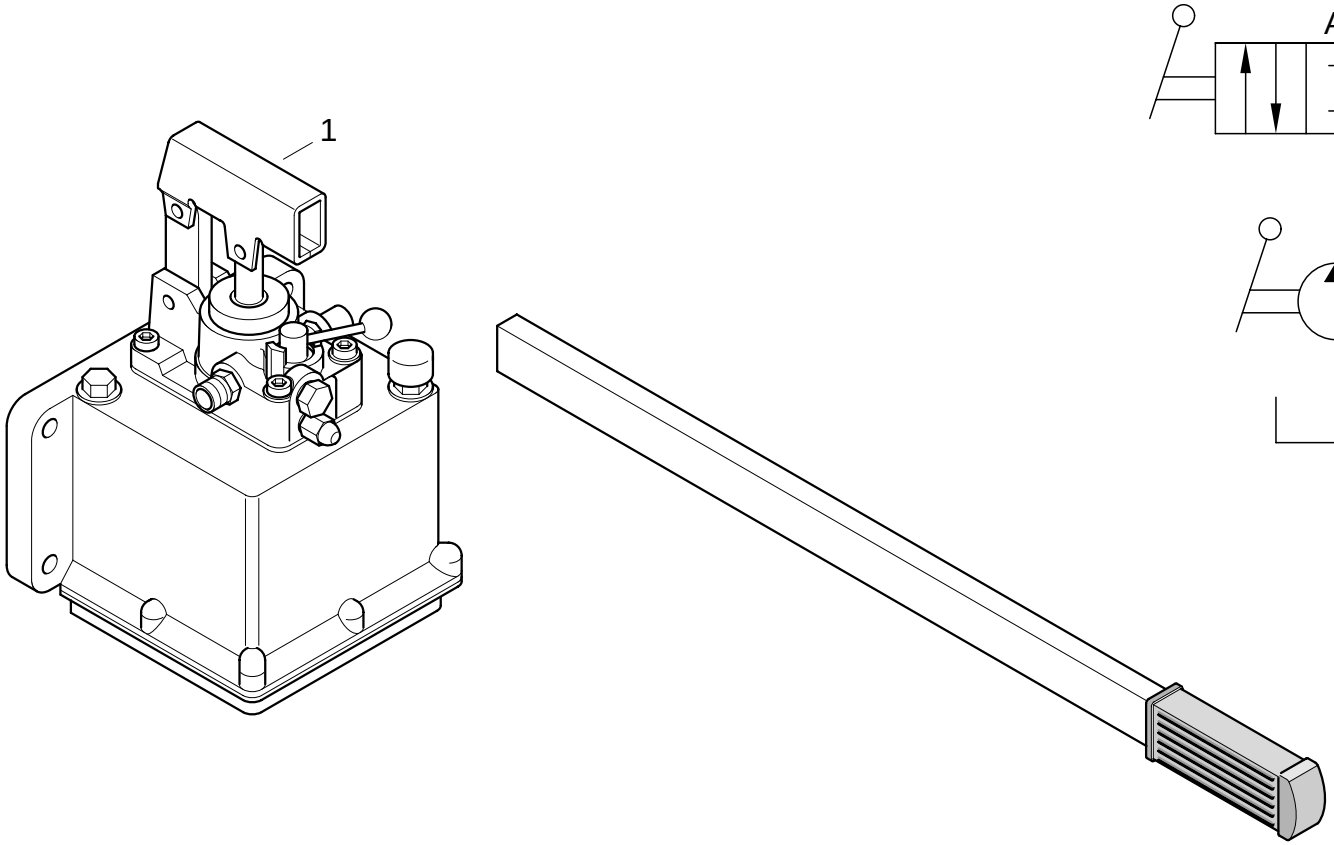
Tav. Tab. Taf.	35.A182.006	02/03
		0

https://truckmanualshub.com/

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2204.673506	1	pompa	pump		Pumpe	bomba

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35.A192.002



FANTUZZI REGGIANE

POMPA IDRAULICA
HYDRAULIC PUMP
POMPE HYDRAULIQUE
HYDRAULISCHER PUMPE
BOMBA HIDRAULICA

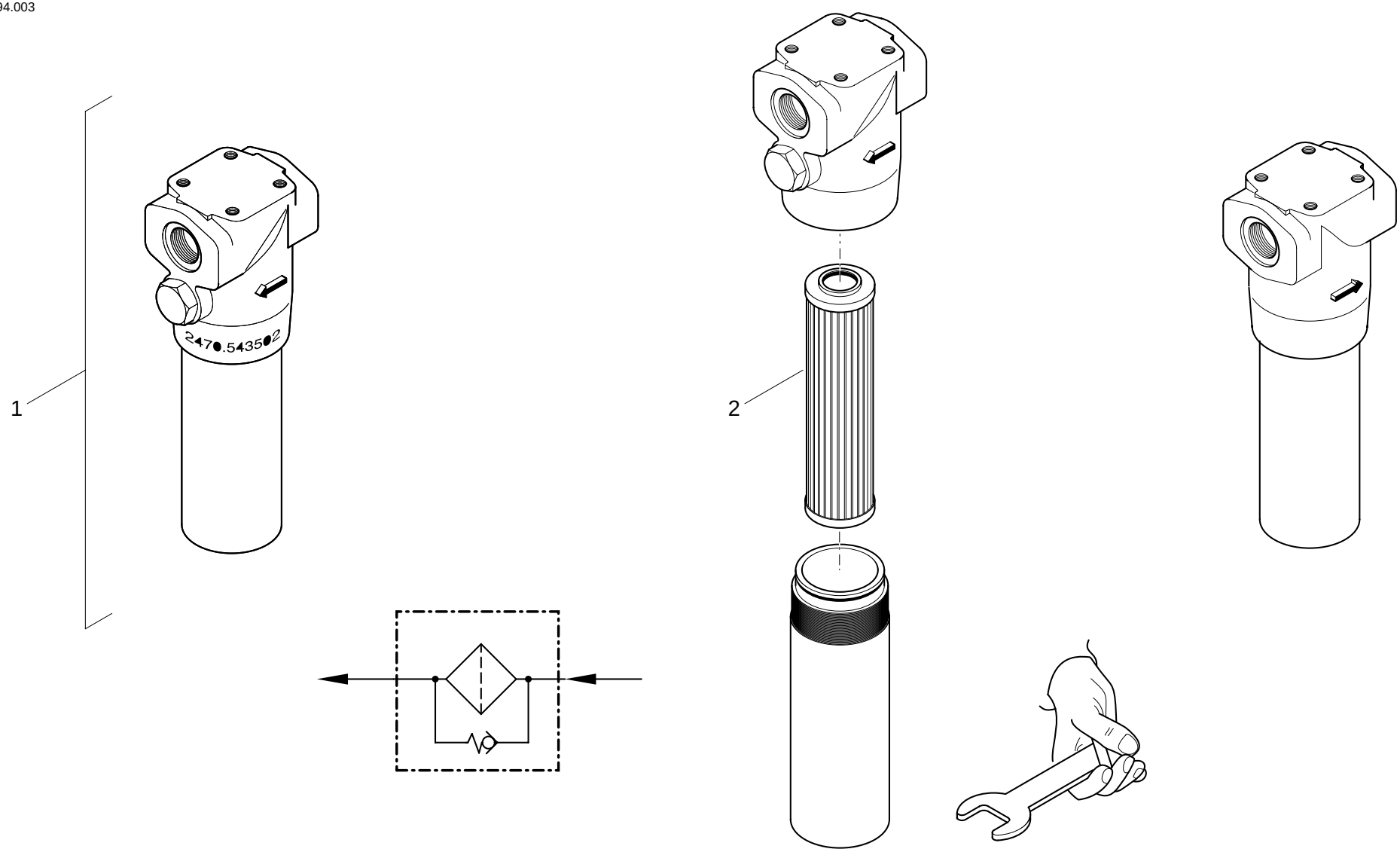
Tav. Tab. Taf.	35.A192.002	02/03
		0

https://truckmanualshub.com/

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2470.543502	1	filtro	filter	filtre	Filter	filtro
02	2470.543503	1	cartuccia	cartridge	cartouche	Patrone	cartucho

https://truckmanualshub.com/

35.A194.003



FANTUZZI REGGIANE

FILTRO OLIO
OIL-BATH AIR FILTER
FILTRE À AIR À BAIN D'H.
ÖLBADLUFTFILTER
FILTRO AIRE EN BAÑO DE A.

Tav. Tab. Taf.	35.A194.003	02/03
		0

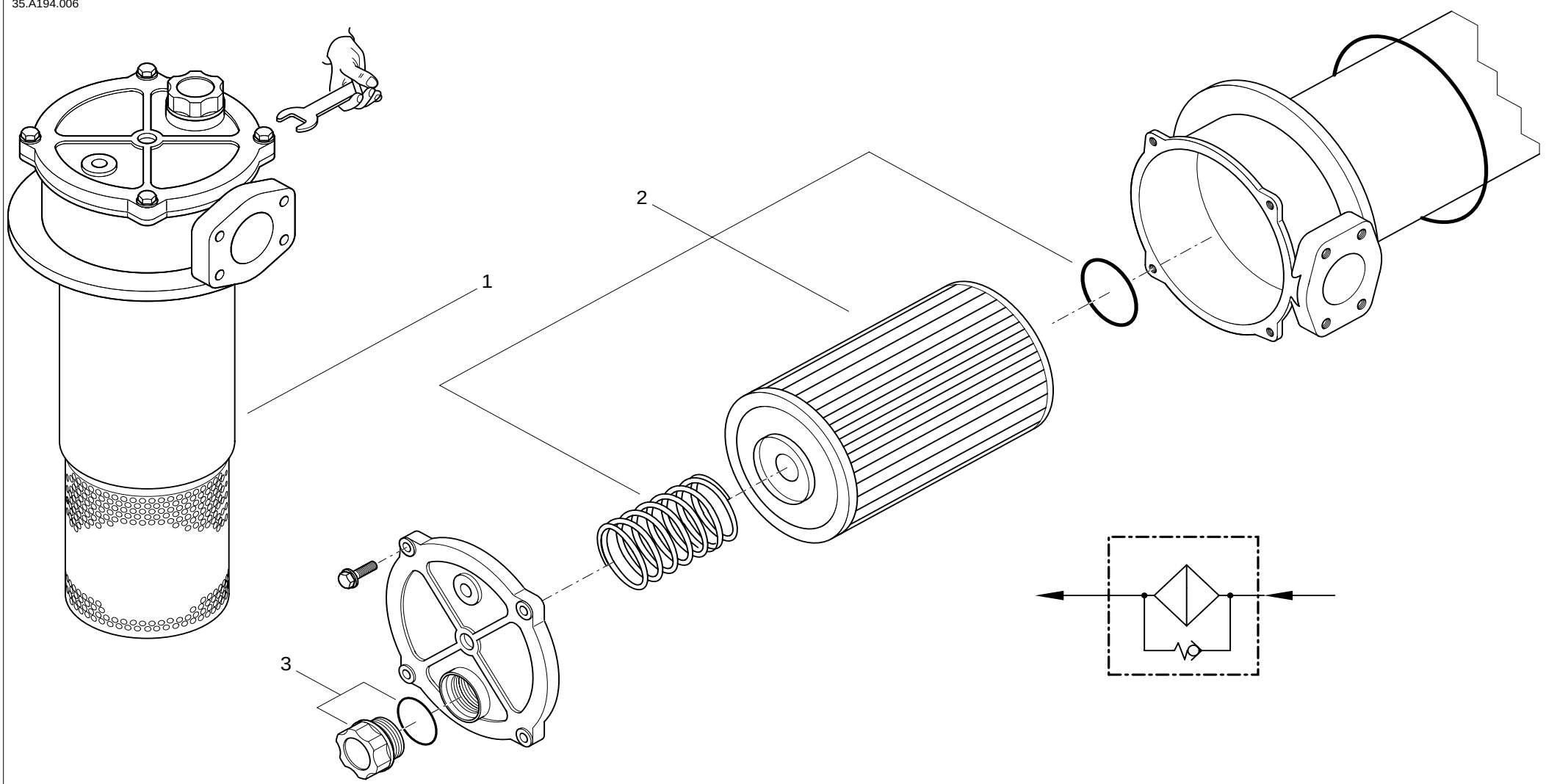
https://truckmanualshub.com/

FANTUZZI REGGIANE

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2470.733501	1	filtro	filter	filtre	Filter	filtro
02	2470.733502	1	cartuccia	cartridge	cartouche	Patrone	cartucho
03	2654.011.0007	2	tappo	cap	bouchonn	Verschlußdeckel	tapon

https://truckmanualshub.com/

35.A194.006



FANTUZZI REGGIANE

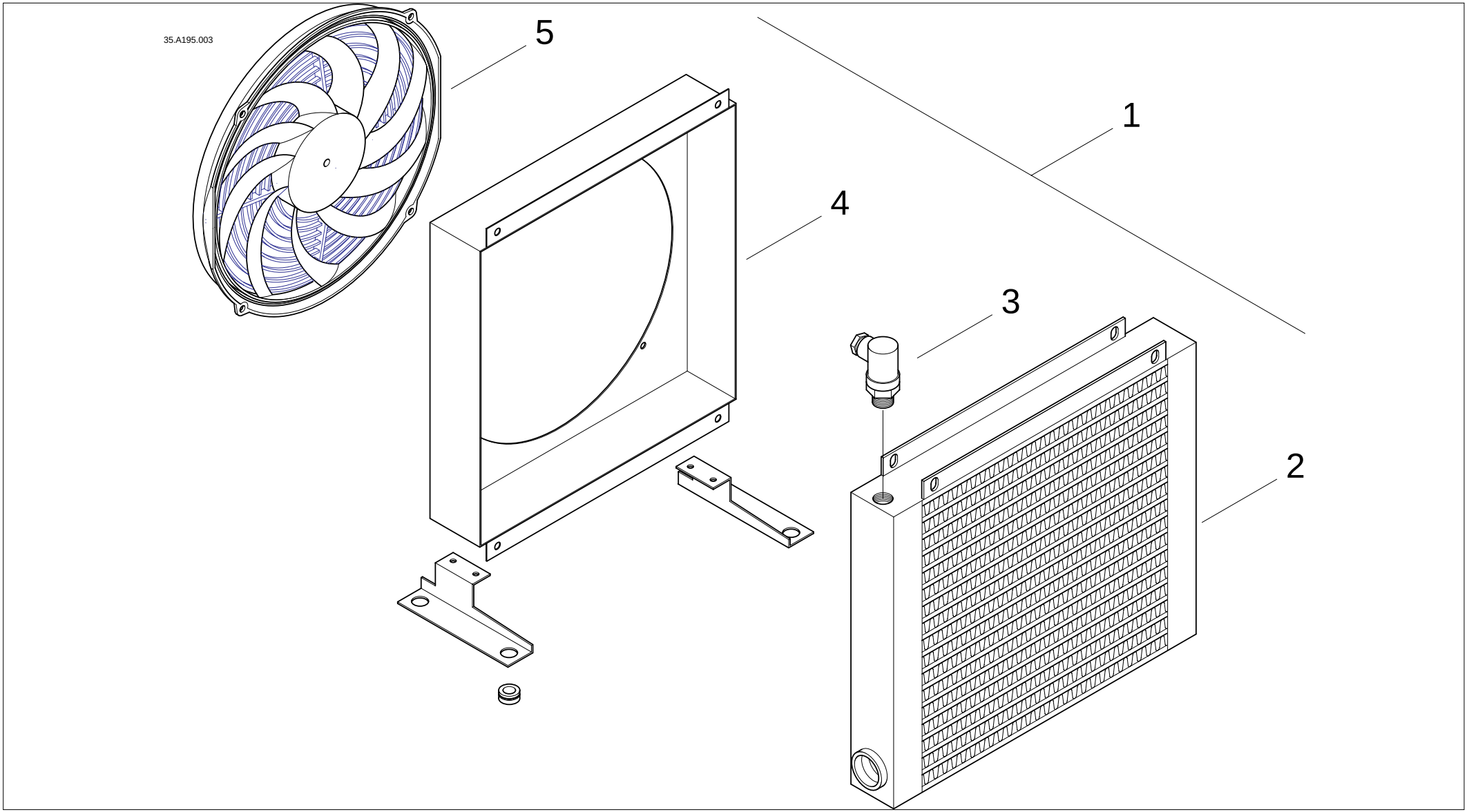
FILTRO OLIO
OIL-BATH AIR FILTER
FILTRE À AIR À BAIN D'H.
ÖLBADLUFTFILTER
FILTRO AIRE EN BAÑO DE A.

Tav. Tab. Taf.	35.A194.006	02/03
		0

https://truckmanualshub.com/

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2225.964001	1	scambiatore	exchanger	échangeur	Kühler	cambiador
02	2225.021.0002	1	corpo	casing	corps	Gehäuse	cuerpo
03	2055.010.0003	1	termostato	thermostat	thermostat	Thermostat	termostato
04	2225.022.0003	1	convogliatore	shroud	tole-guide	Leitblech	canalizador
05	2225.023.0003	1	elettroventilatore	electric fan	électro-ventilateur	Elektrogebläse	electroventilador

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FANTUZZI REGGIANE

RADIATORE
COOLER
RADIATEUR
KÜHLER
RADIADOR

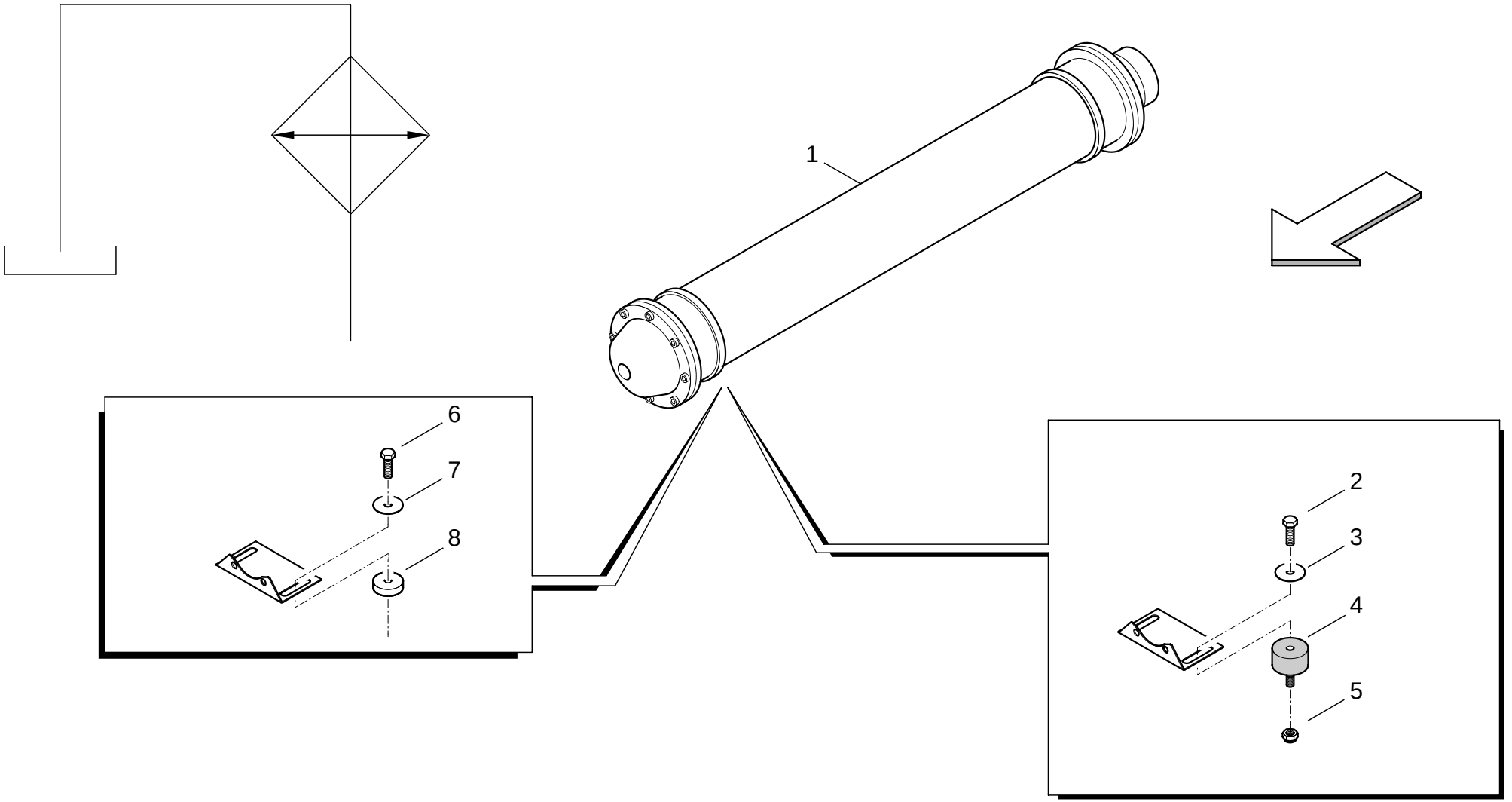
Tav. Tab. Taf.	35.A195.003	02/03
		0

https://truckmanualshub.com/

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	29875218	1	scambiatore	exchanger	échangeur	Kühler	cambiador
02	2900.005.0152	4	vite	screw	vis	Schraube	tornillo
03	2900.111.0014	4	rosetta	washer	rondelle	Scheibe	arandela
04	2685.195.0003	4	antivibrante	vibration damper	amortisseur	Silent Block	amortiguador
05	2900.080.0008	4	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
06	2900.005.0085	4	vite	screw	vis	Schraube	tornillo
07	2900.111.0014	4	rosetta	washer	rondelle	Scheibe	arandela
08	2299.010.0001	4	antivibrante	vibration damper	amortisseur	Silent Block	amortiguador

https://truckmanualshub.com/

35.A195.007



FANTUZZI REGGIANE

SCAMBIATORE
EXCHANGER
ÉCHANGEUR
KÜHLER
CAMBIADOR

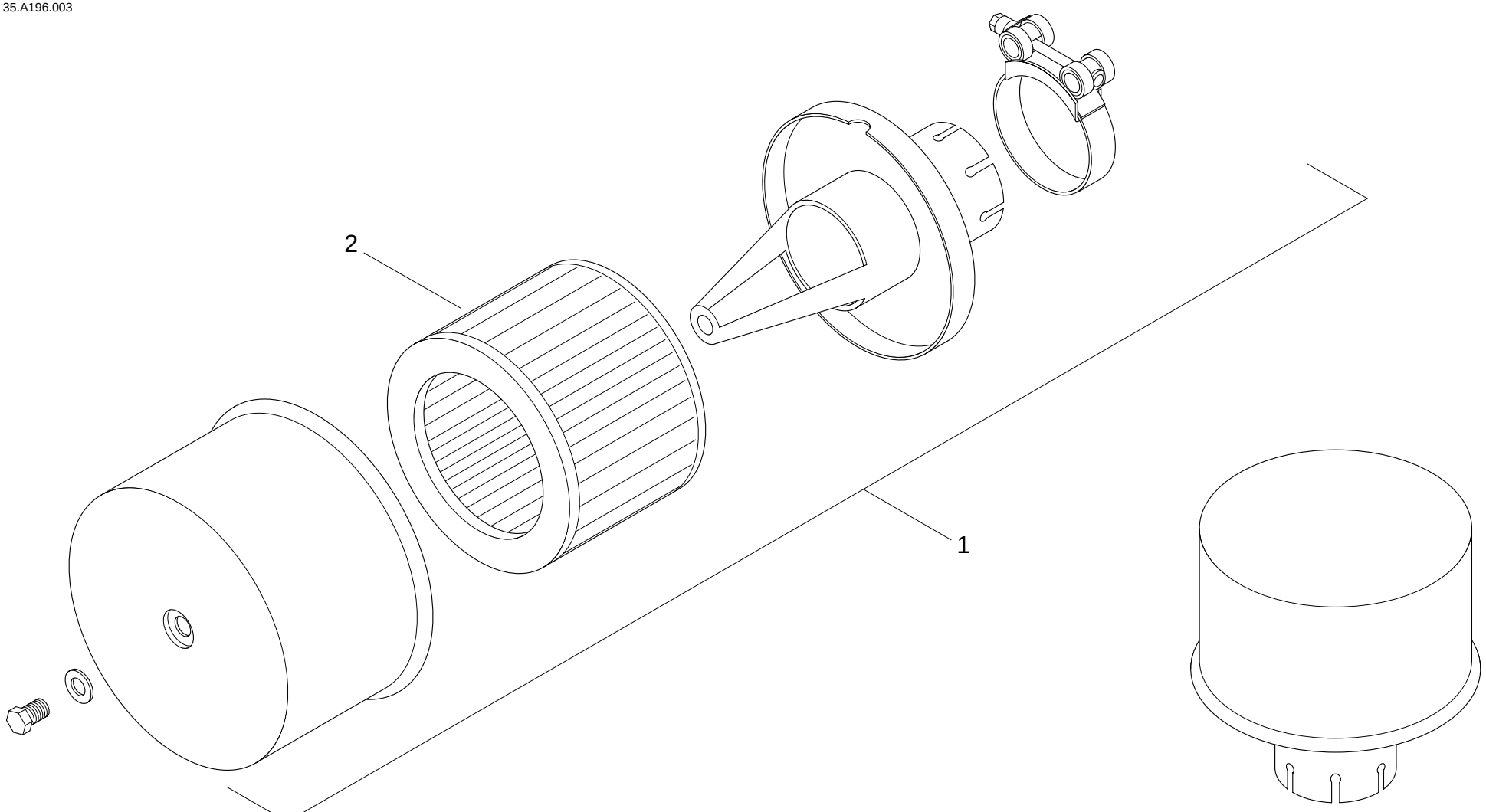
Tav. Tab. Taf.	35.A195.011	02/03
		0

https://truckmanualshub.com/

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2892.733501	1	sfiato	breather pipe	reniflard	Entlüfter	respiradero
02	2562.170.0001	1	cartuccia	cartridge	cartouche	Patrone	cartucho

https://truckmanualshub.com/

35.A196.003



FANTUZZI REGGIANE

SFIATO
BREATHER PIPE
RENIFLARD
ENTLUFTER
RESPIRADERO

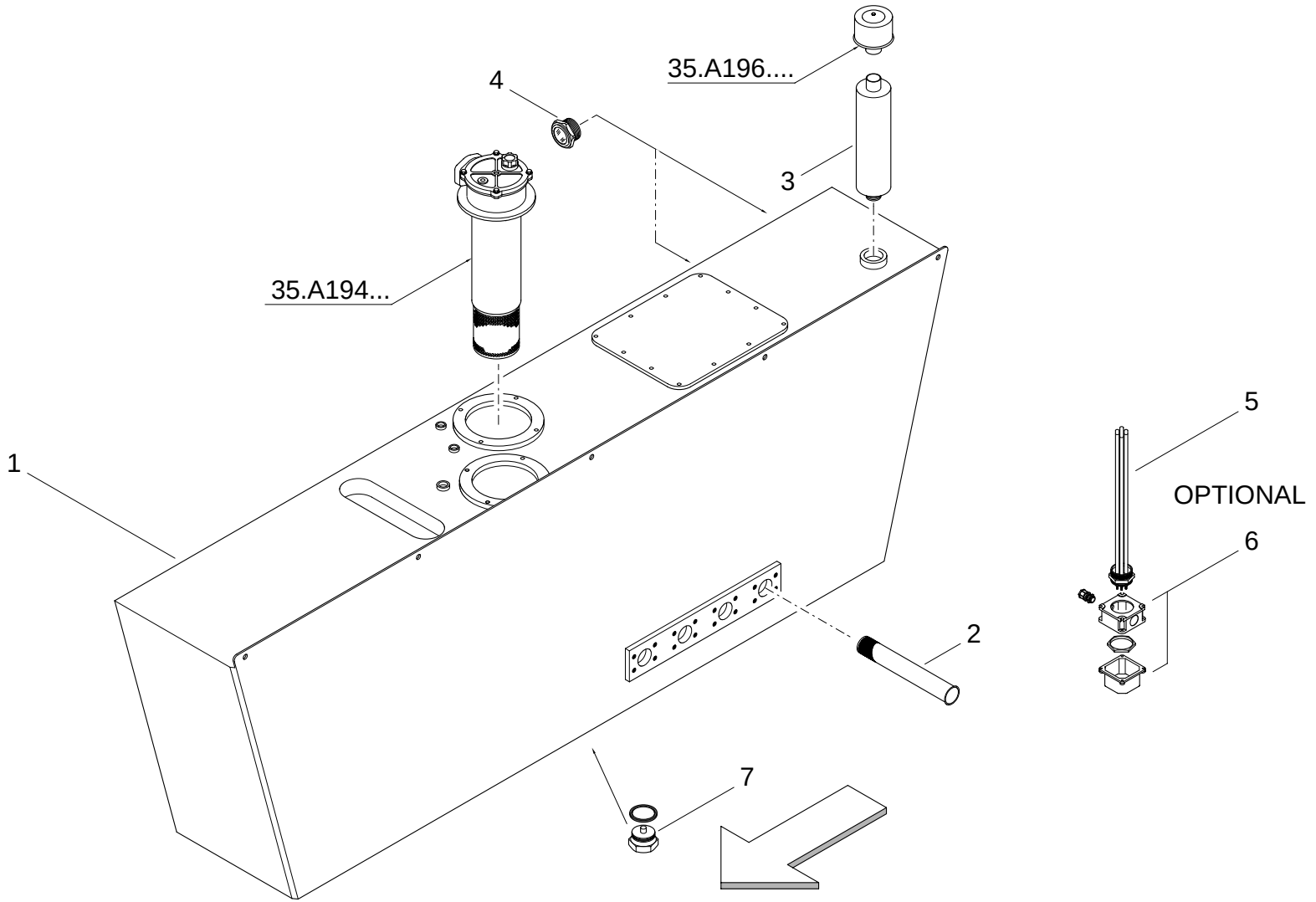
Tav. Tab. Taf.	35.A196.003	02/03
		0

https://truckmanualshub.com/

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	N0323T	1	serbatoio olio	oil tank	réservoir huile	Öelbehälter	depósito de aceite
02	29850927	3	filtro	filter	filtre	Filter	filtro
03	2333.733502	1	prefiltro	precleaner	préfiltre	Vorfilter	predepurador
04	29875028	2	indicatore livello	level gauge	indicateur de niveau	Standanzeiger	indicador nivel
05	2082.016501	1	resistenza	heating element	résistance	Widerstand	resistencia
06	2410.010.0013	1	scatola	box	boîtier	Gehäuse	caja
07	2654.011.0006	1	tappo di scarico	drain plug	bouchon de vidange	Olablaßstopfen	tapón de evacuación

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35.A200.029



FANTUZZI REGGIANE

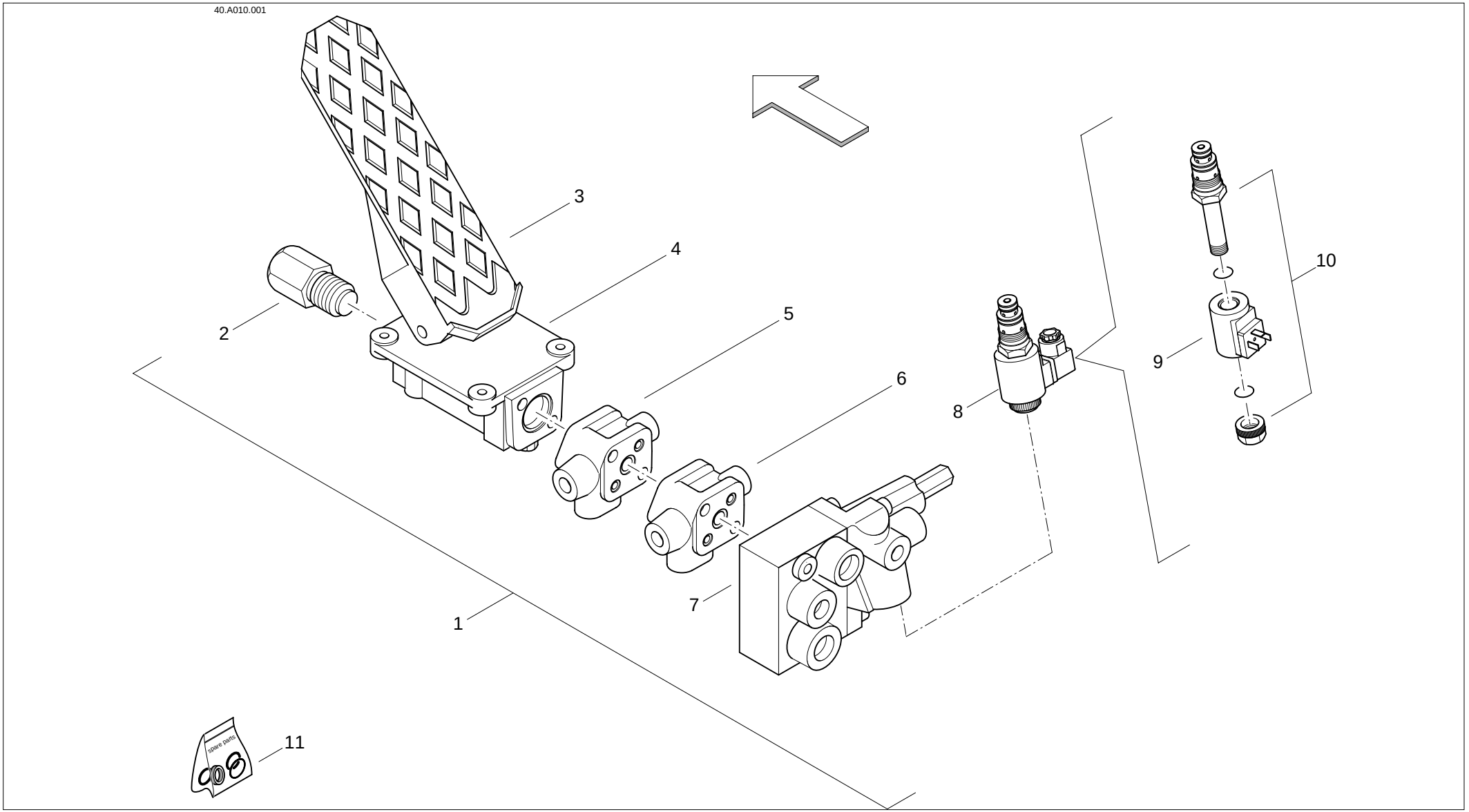
SERBATOIO OLIO IDRAULICO
HYDRAULIC OIL TANK
RESERVOIR HUILE HYDRAULIQUE
HYDRAULIKÖLBEHÄLTER
DEPOSITO ACEITE HIDRAULICO

Tav. Tab. Taf.	35.A200.031	02/03
		0

https://truckmanualshub.com/

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2577.884001	1	pedale freno	brake pedal	pédale de frein	Bremspedal	pedal del freno
02	2577.744003	1	manicotto	pipe coupling	manchon	Muffe	manguito
03	2577.744006	1	pedale	pedal	pédale	Pedal	pedal
04	2577.744004	1	supporto	support	support	Träger	soporte
05	2577.745001	1	modulo di frenatura	braking modulus	module de freinage	Bremsmodul	módulo de frenado
06	2577.745002	1	modulo di frenatura	braking modulus	module de freinage	Bremsmodul	módulo de frenado
07	2577.744005	1	valvola	valve	soupape	Ventil	válvula
08	4S.MO15804	1	solenoide	solenoid valve	solénoïde	Spule	solenoide
09	2M015532	1	solenoide	solenoid valve	solénoïde	Spule	solenoide
10	15433	1	valvola	valve	soupape	Ventil	válvula
11	2511.744001	1	kit guarnizioni	seal kit	kit de joints	Dichtungsatz	juego de juntas

https://truckmanualshub.com/



FANTUZZI REGGIANE

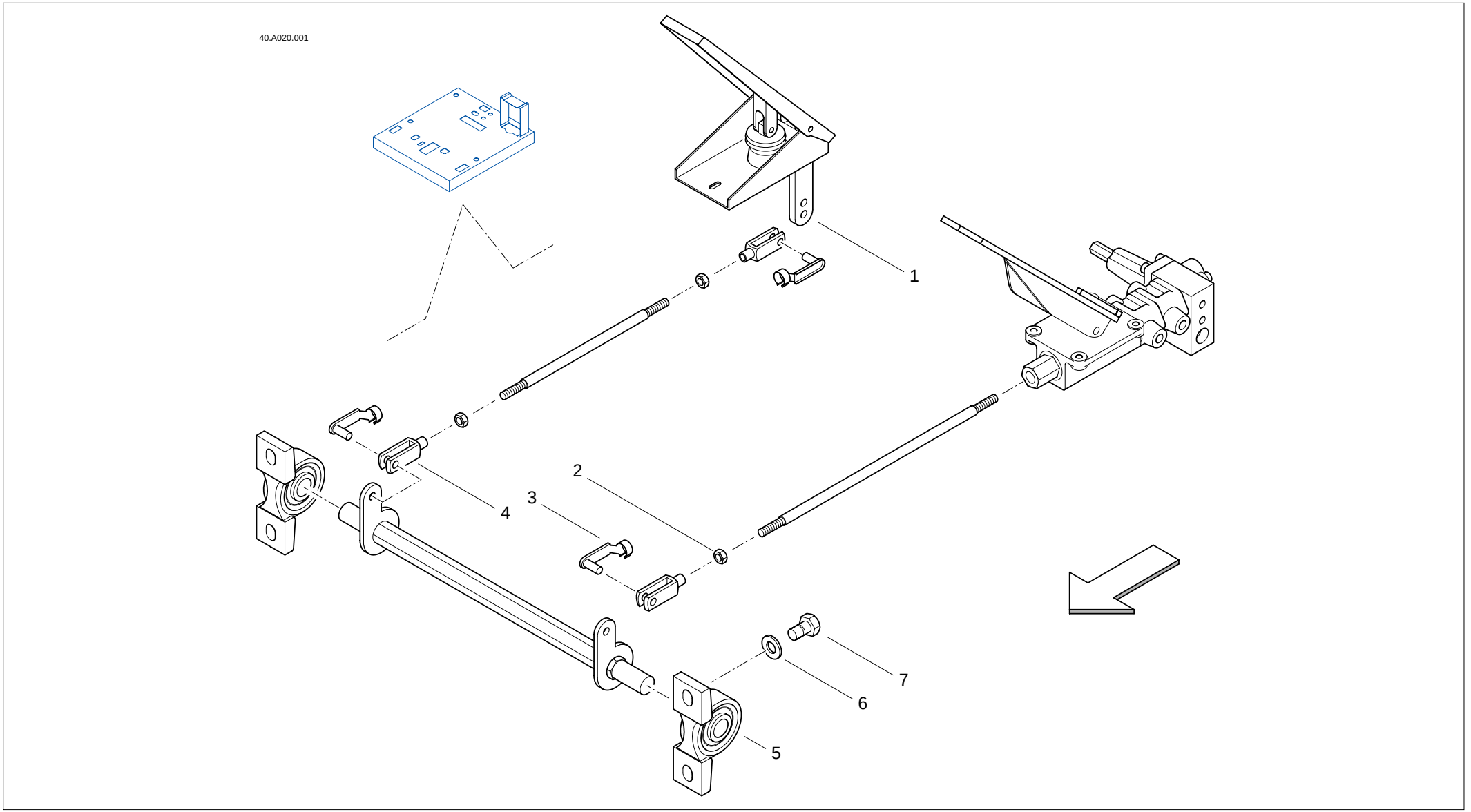
PEDALE FRENO
BRAKE PEDAL
PÉDALE DE FREIN
BREMSPEDAL
PEDAL DEL FRENO

Tav. Tab. Taf.	40.A010.001	02/03
		0

https://truckmanualshub.com/

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	29820041	1	pedale freno	brake pedal	pédale de frein	Bremspedal	pedal del freno
02	2900.070.0010	3	dado	nut	écrou hexagonaux	Mutter	tuerca
03	2375.031.0002	3	spinotto	gudgeon pin	axe	Bolzen	perno
04	2375.030.0002	3	forcella	yoke	chape	Gabel	horquilla
05	2426.120.0001	2	cuscinetto	bearing	roulement	Lager	rodamiento
06	2900.111.0022	4	rosetta	washer	rondelle	Scheibe	arandela
07	29385037	4	vite	screw	vis	Schraube	tornillo

https://truckmanualshub.com/



FANTUZZI REGGIANE

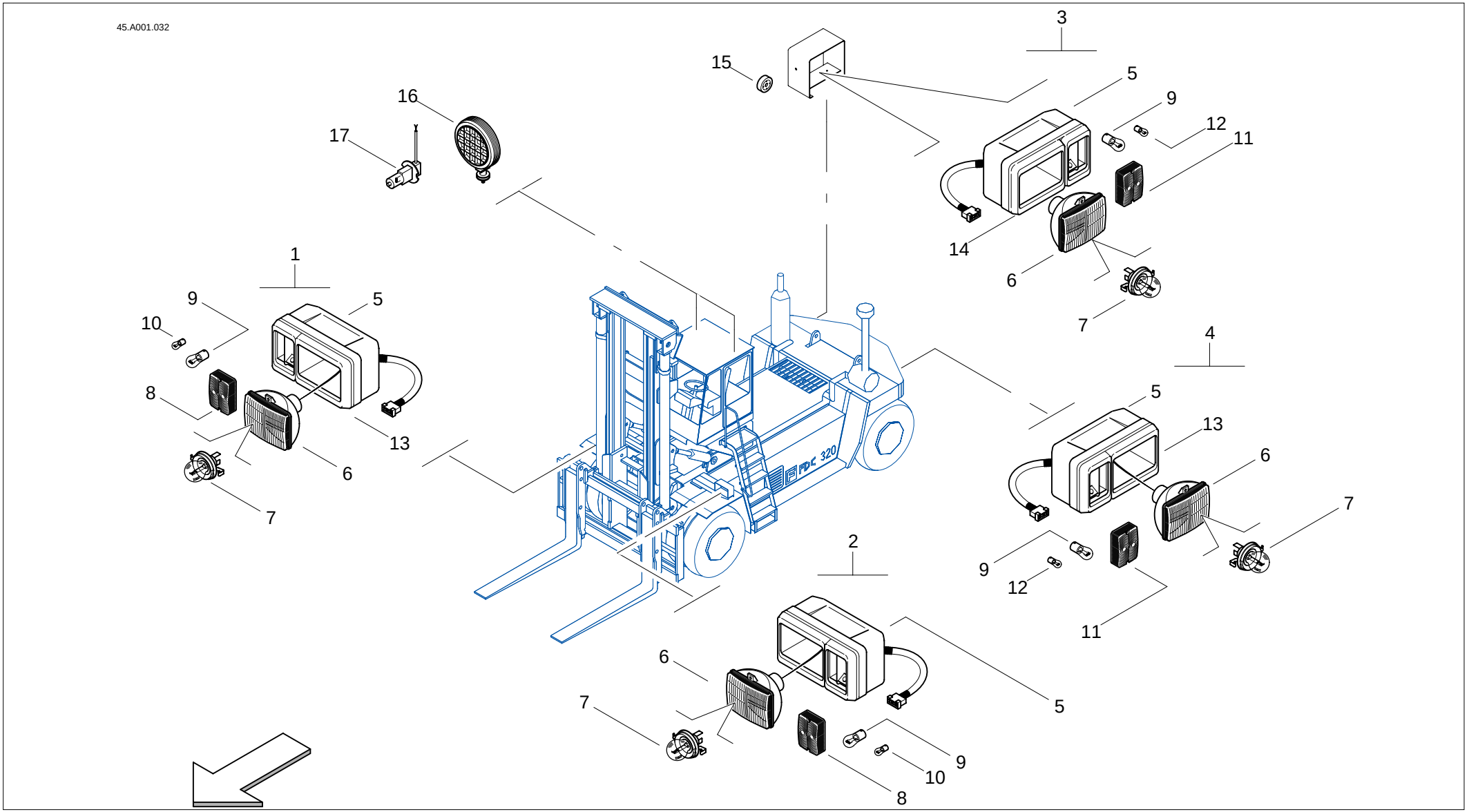
RINVIO PEDALI FRENO
BRAKE PEDALS TRANSMISSION
RENVOI PÉDALES FREIN
VORGELEGE BREMSPEDALE
TRANSMISIÓN PEDALES DE FRENO

Tav. Tab. Taf.	40.A020.001	02/03
		0

https://truckmanualshub.com/

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2037.714501	1	fanale ant/dx	front/right light	projecteur av/droit	Vor/rechts Lampe	faro ant/der.
02	2037.714502	1	fanale ant/sx	front/left light	projecteur av/gauche	Vor/links Lampe	faro ant/izq.
03	2037.714503	1	fanale post/dx	rear/right light	projecteur arr/droit	Hint/rechts Lampe	faro post/der.
04	2037.714504	1	fanale post/sx	rear/left light	projecteur arr/gau.	Hint/links Lampe	faro post/izq.
05	3E.F040028	4	corpo fanale	headlight casing	corps feu	Scheinwerfergehäuse	cuerpo faro
06	3E.F04040.1	4	fanale	headlight	projecteur	Lampe	faro
07	3E.L26012.0	4	lampadina	lamp	ampoule	Lampe	bombilla
08	3E.F02002.1	2	indicatore di direzione	direction indicator	indicateur de direct.	Drehungszeiger	indicador de dirección
09	3E.L26013.0	4	lampadina	lamp	ampoule	Lampe	bombilla
10	3E.L26014.0	2	lampadina	lamp	ampoule	Lampe	bombilla
11	3E.F07060.1	2	indicatore di direzione	direction indicator	indicateur de direct.	Drehungszeiger	indicador de dirección
12	3E.L26018.0	2	lampadina	lamp	ampoule	Lampe	bombilla
13	3E.F04026.1	2	fermo	lock	plaque d'arrêt	Arretierplatte	horquilla
14	3E.F04027.1	2	fermo	lock	plaque d'arrêt	Arretierplatte	horquilla
15	2008.010.0001	1	cicalino	buzzer	bruiteur	Summer	zumbador
16	29860598	2	faro orientabile	revolving headlight	feu pivotant	Drehfeuer	faro giratorio
17	24V70WH3	2	lampadina	lamp	ampoule	Lampe	bombilla

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FANTUZZI REGGIANE

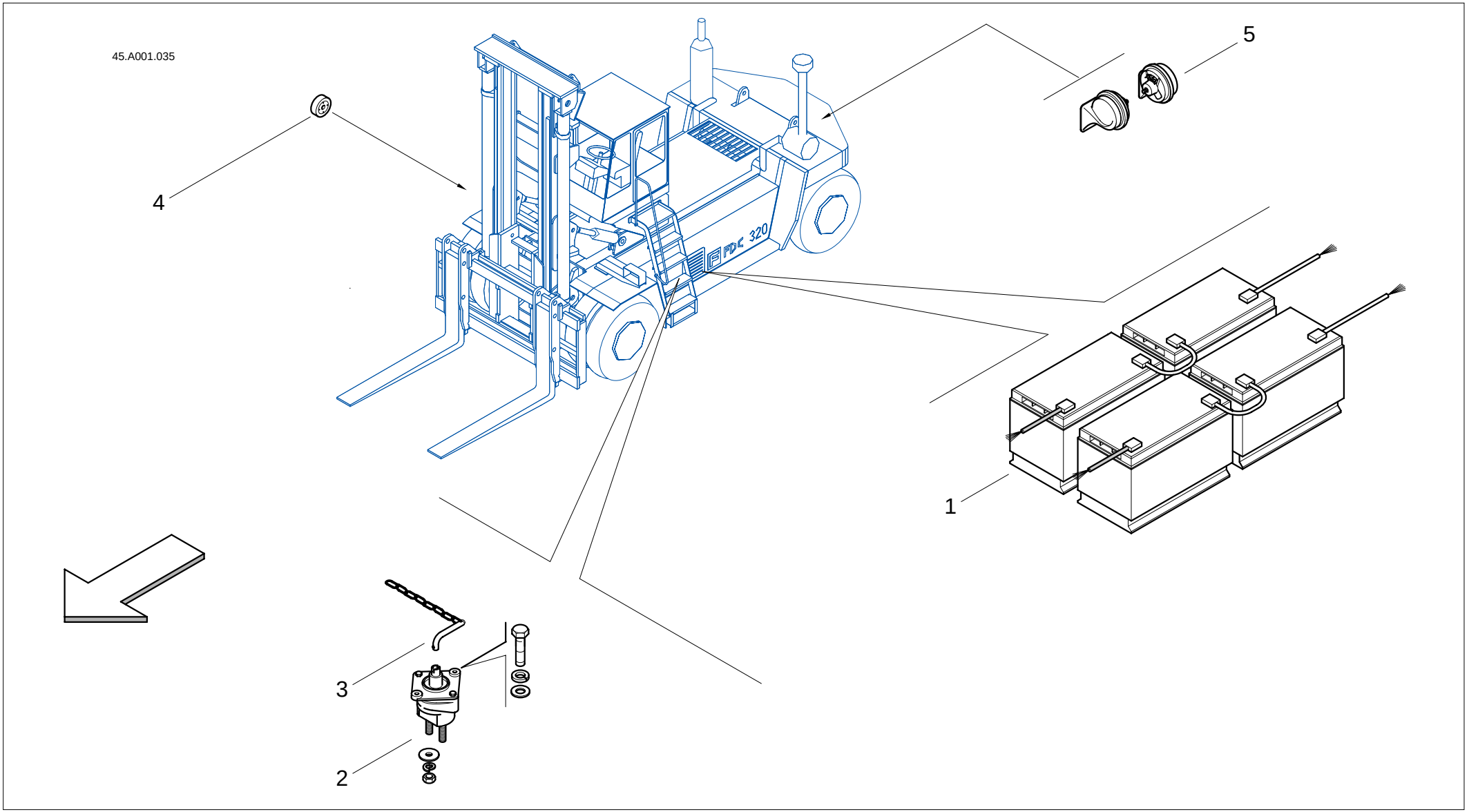
IMPIANTO ELETTRICO (ACCESSORI)
ELECTRIC SYSTEM (ACCESSORIES)
INSTALLATION ELECTRIQUE (ACCESSOIRES)
SCHALTBILD (ZUBEHÖR)
INSTALACION ELECTRICA (ACCESORIOS)

Tav. Tab. Taf.	45.A001.032	02/03
		0

https://truckmanualshub.com/

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	29846475	4	batteria	battery	batterie	Batterie	batería
02	29875032	1	sezionatore	sectioning switch	sectionneur	Trennschalter	seccionador
03	KT10	1	leva	lever	levier	Hebel	palanca
04	2008.010.0001	1	cicalino	buzzer	bruiteur	Summer	zumbador
05	29875521	1	tromba	horn	klaxon	Horn	avisador, claxon

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FANTUZZI REGGIANE

IMPIANTO ELETTRICO (ACCESSORI)
ELECTRIC SYSTEM (ACCESSORIES)
INSTALLATION ELECTRIQUE (ACCESSOIRES)
SCHALTBILD (ZUBEHÖR)
INSTALACION ELECTRICA (ACCESORIOS)

Tav. Tab. Taf.	45.A001.035	02/03
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https://truckmanualshub.com/

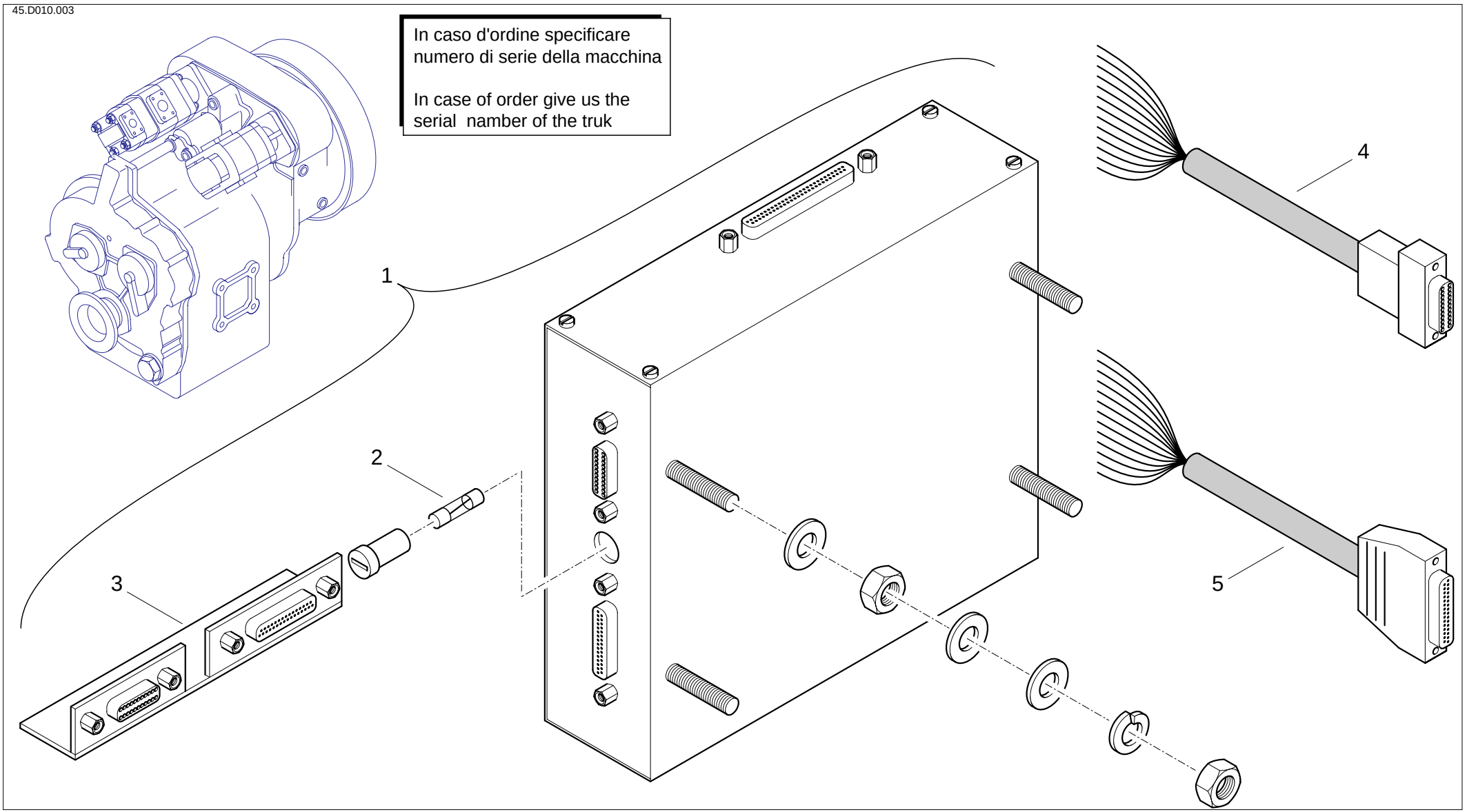
Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2420.734503	1	scatola di comando	control box	boîter de commande	Steuerkasten	caja de contacto
02	2080.010.0009	1	fusibile	fuse	fusible	Sicherung	fusible
03	3E.V38118	1	scatola bypass	bypassbox	boîtier	Gehäuse	caja
04	3E.FA.017.1	1	cavo	cable	câble	Kabel	cable
05	3E.FA.017.2	1	cavo	cable	câble	Kabel	cable

https://truckmanualshub.com/

45.D010.003

In caso d'ordine specificare
numero di serie della macchina

In case of order give us the
serial namber of the truk



FANTUZZI
REGGIANE

COMANDO CAMBIO
GEAR CONTROL
COMMANDE BOÎTE/VITES.
GETRIEBESCHALTUNG
MANDO DEL CAMBIO

Tav. Tab. Taf.	45.D010.003	02/03
		0

https://truckmanualshub.com/

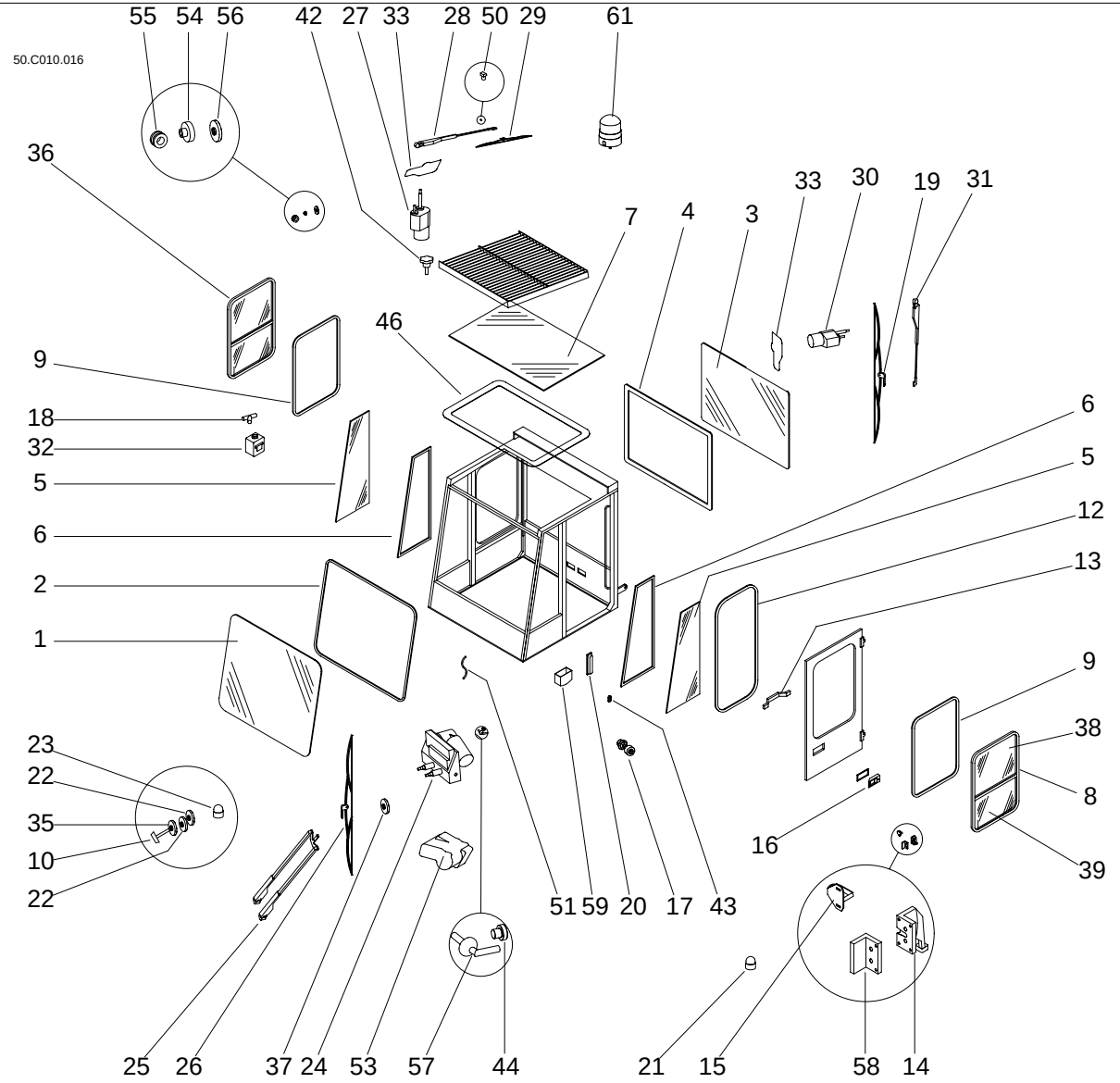
Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	3F.3003170	1	parabrezza	windscreen	pare-brise	Windschutzscheibe	parabrisas
02	3F.2010309	1	guarnizione	gasket	joint	Abdichtprofil	junta
03	3F.3003171	1	vetro	glass	vitre	Scheibe	cristal
04	3F.2010309	1	guarnizione	gasket	joint	Abdichtprofil	junta
05	3F.3003174	2	vetro	glass	vitre	Scheibe	cristal
06	3F.2010309	2	guarnizione	gasket	joint	Abdichtprofil	junta
07	3F.3003389	1	vetro	glass	vitre	Scheibe	cristal
08	3F.3900063	1	finestra	window	fenêtre	Fenster	ventana
09	3F.2010117	1	guarnizione	gasket	joint	Abdichtprofil	junta
10	3F.2007521	24	vite	screw	vis	Schraube	tornillo
12	3F.2010308	1	guarnizione	gasket	joint	Abdichtprofil	junta
13	3F.2006702	1	maniglia	handle	poignée	Griff	manilla
14	3F.2005514	1	serratura	lock	serrure	Schloß	cierre, cerradura
15	3F.2005554	1	scontro	striker plate	butée	Anschlag	tope
16	3F.2005544	1	maniglia	handle	poignée	Griff	manilla
17	3F.2006626	1	fermaporta	door stop	cale	Türhalter	tope de puerta
18	3F.2000204	1	raccordo	union	raccord	Verschraubung	racor
19	3F.2000103	1	spazzola tergivetro	windscreen wiper blade	brosse essuie-glace	Wischblatt	escobilla limpiaparab.
20	3F.2001500	2	plafoniera	ceiling fitting	plafonnier	Deckenleuchte	lámpara de techo
21	3F.2004511	4	protezione	guard	protection	Schutzblech	protección
22	3F.2063100	20	rosetta	washer	rondelle	Scheibe	arandela
23	3F.2004512	29	coperchio	cover	couvercle	Deckel	tapa
24	3F.2000009	1	motorino tergivetro	windscreen wiper mot.	moteur essuie-glace	Scheibenwischermotor	motor limpiaparabrisas
25	3F.2000120	1	braccio tergivetro	windscreen wiper arm	bras essuie-glaces	Scheibenwischerarm	brazo limpiacristal
26	3F.2000127	1	spazzola tergivetro	windscreen wiper blade	brosse essuie-glace	Wischblatt	escobilla limpiaparab.
27	3F.2000039	1	motorino tergivetro	windscreen wiper mot.	moteur essuie-glace	Scheibenwischermotor	motor limpiaparabrisas

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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
28	3F.2000158	1	braccio tergivetro	windscreen wiper arm	bras essuie-glaces	Scheibenwischerarm	brazo limpiacristal
29	3F.2000101	1	spazzola tergivetro	windscreen wiper blade	brosse essuie-glace	Wischblatt	escobilla limpiaparab.
30	3F.2000038	1	motorino tergivetro	windscreen wiper mot.	moteur essuie-glace	Scheibenwischermotor	motor limpiaparabrisas
31	3F.2000158	1	braccio tergivetro	windscreen wiper arm	bras essuie-glaces	Scheibenwischerarm	brazo limpiacristal
32	3F.2000209	1	vaschetta	cup	cuve	Tank	cuba
33	3F.2000166	1	targhetta	name plate	plaquette	Namensschild	placa
35	3F.2000114	24	rosetta	washer	rondelle	Scheibe	arandela
36	3F.3900066	1	finestra	window	fenêtre	Fenster	ventana
37	3F.2000116	4	rosetta	washer	rondelle	Scheibe	arandela
38	3F.3003172	1	vetro	glass	vitre	Scheibe	cristal
39	3F.3003173	1	vetro	glass	vitre	Scheibe	cristal
42	3F.2040342	2	vite	screw	vis	Schraube	tornillo
43	3F.2001308	4	lampadina	lamp	ampoule	Lampe	bombilla
44	3F.3101742	2	boccola	bushing	palier	Lagerteil	casquillo
46	3F.2010400	37	guarnizione	gasket	joint	Abdichtprofil	junta
50	3F.2000216	1	spruzzatore	sprayer	atomiseur	Spritzdüse	lavaparabrisas
51	3F.2000206	8	tubo	pipe	tube	Rohr	tubo
53	3F.2011606	1	protezione	guard	protection	Schutzblech	protección
54	3F.2000165	4	boccola	bushing	palier	Lagerteil	casquillo
55	3F.2008800	4	rosetta	washer	rondelle	Scheibe	arandela
56	3F.2000114	6	rosetta	washer	rondelle	Scheibe	arandela
57	3F.2000217	1	passafilo	grommet	passe-fil	Tülle	pasa-hilo
58	3F.3100512	1	supporto	support	support	Träger	soporte
59	3F.3102086	2	raccordo	union	raccord	Verschraubung	racor
61	29860598	1	faro orientabile	revolving headlight	feu pivotant	Drehfeuer	faro giratorio

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FANTUZZI REGGIANE

CABINA (VETRI E GUARNIZIONI)
CAB (WINDOWS AND SEALS)
CABINE (VITRES ET JOINTS)
KABINE (SCHEIBEN UND DICHTUNGEN)
CABINA (VIDRIOS Y GUARNICIONES)

Tav. Tab. Taf.	50.C010.016	02/03
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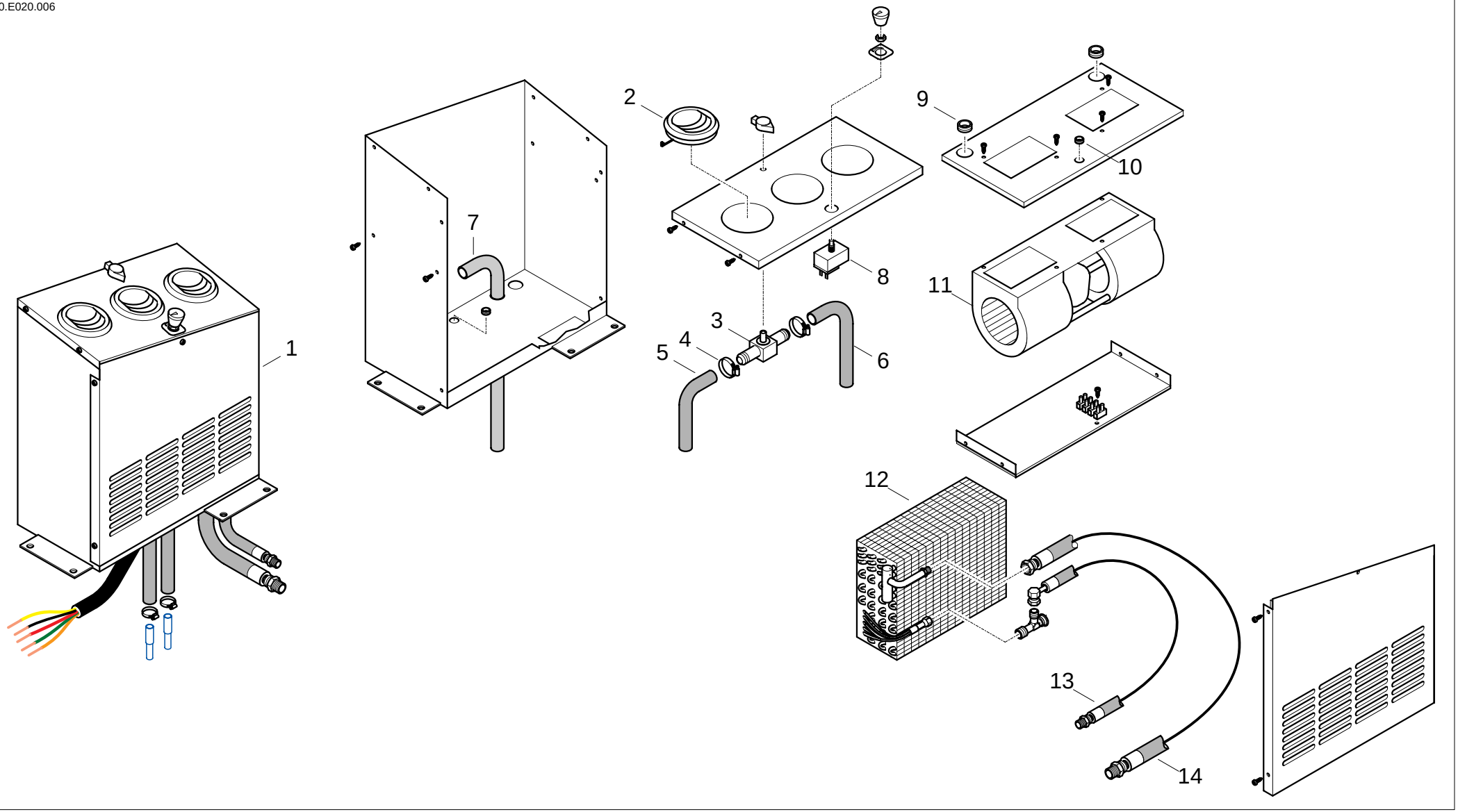
https://truckmanualshub.com/

FANTUZZI REGGIANE

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2009.020.0003	1	gruppo evaporatore	cooler unit	ensemble évaporateur	Verdampfer Gruppe	grupo vaporizador
02	2009.090.0173	3	bocchetta	air inlet hose	buse d'air	Rohransatz	boquilla

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50.E020.006



FANTUZZI REGGIANE

GRUPPO EVAPORATORE
COOLER UNIT
ENSEMBLE ÉVAPORATEUR
VERDAMPFER GRUPPE
GRUPO VAPORIZADOR

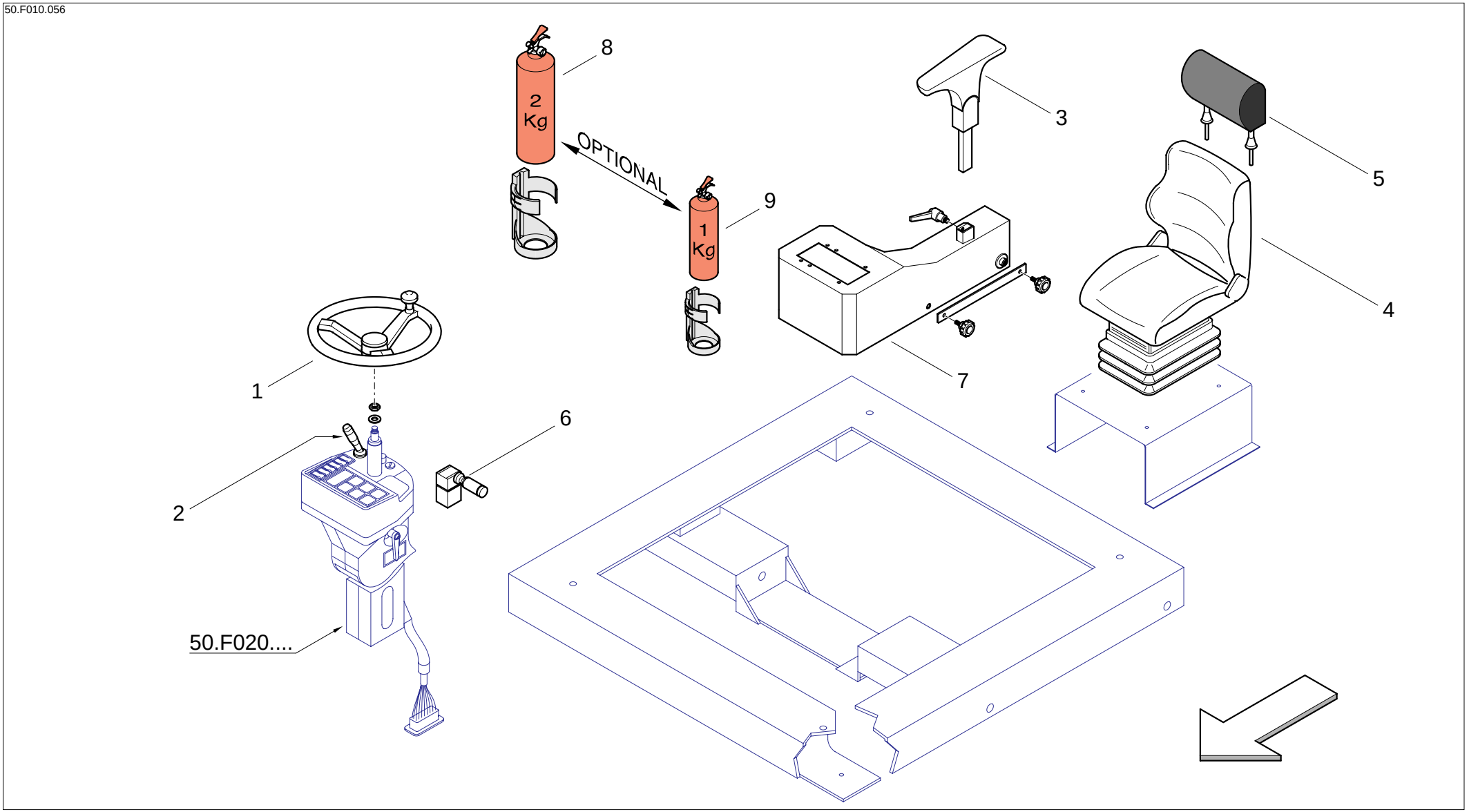
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https://truckmanualshub.com/

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2747.010.0002	1	volante	handwheel	volant	Handrad	volante
02	3E.D12066	1	leva comando	control lever	levier de commande	Verstellhebel	palanca de mando
03	2649.030.0003	1	bracciolo	armrest	accoudoir	Armelehne	apoyabrazos
04	2649.010.0007	1	sedile	seat	siège	Sitz	asiento
05	2649.031.0001	1	appoggiatesta	headrest	appuie-tête	Kopfstütze	reposacabeza
06	2185.674501	1	manipolatore	servocontrol	servocommande	Servosteuerung	servocontrol
07	2649.066.0001	1	supporto joystick	joystick support	support du joystick	Joystick-konsole	soporte del joystick
08	2333.735002	1	estintore	extinguisher	extincteur	Feuerlöscher	extintor
09	2308.080.0002	1	estintore	extinguisher	extincteur	Feuerlöscher	extintor

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50.F010.056



FANTUZZI REGGIANE

CABINA (QUADRO COMANDI E ACCESSORI)
CAB (CONTROL PANEL AND ACCESSORIES)
CABINE (TABLEAU DE COMMANDE ET ACCESSOIRES)
KABINE (SCHALTTAFEL UND ZUBEHÖR)
CABINA (TABLERO DE MANDO Y ACCESORIOS)

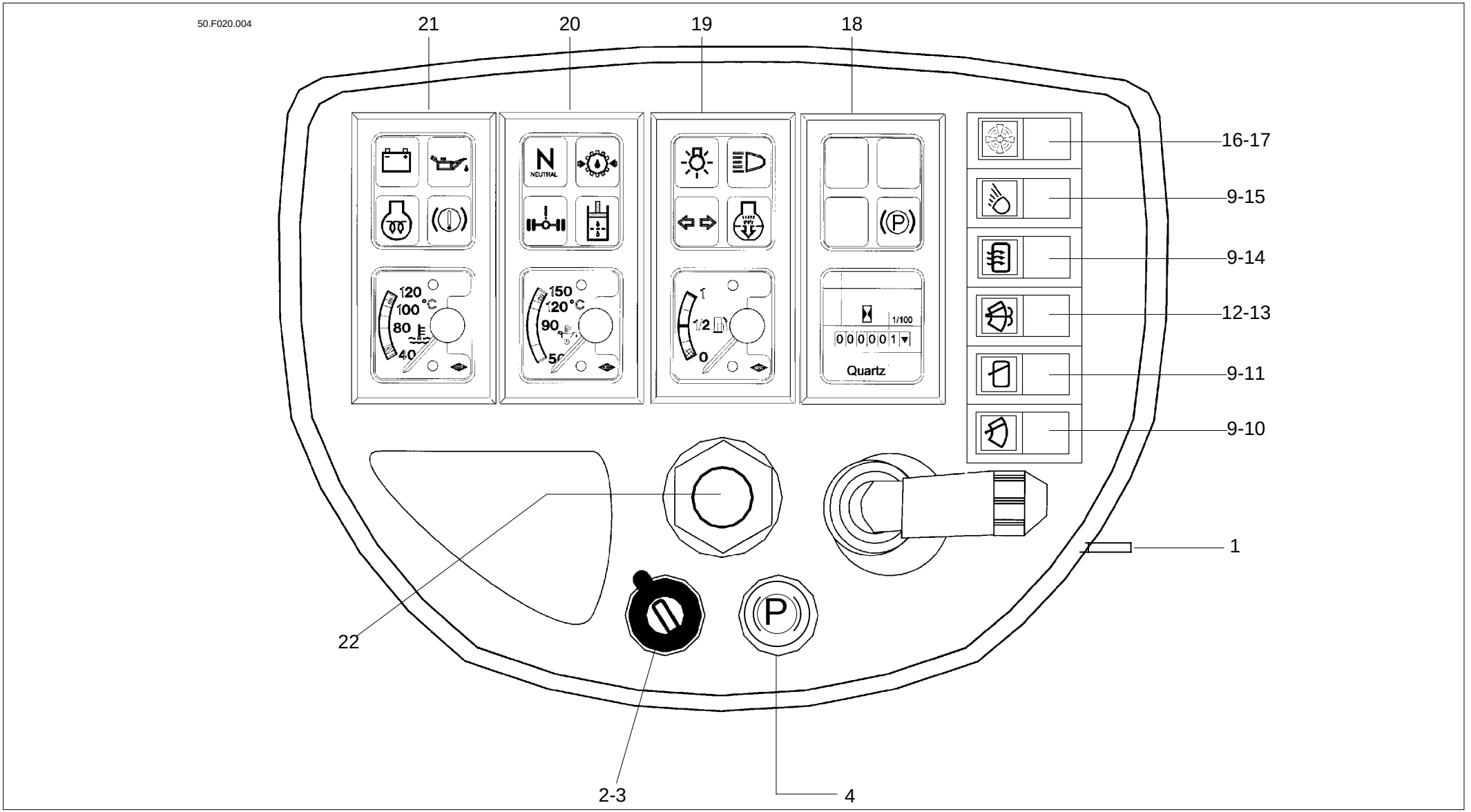
Tav. Tab. Taf.	50.F010.056	02/03
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FANTUZZI REGGIANE

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	3E.Q13017	1	interrut. a chiavetta	key switch	interrupteur à clef	Schlüsselschalter	contactor de llave
02	3E.TE.092	1	elemento di contatto	contact	élément de contact	Kontakt	contacto
03	3E.TE.047	1	selettore	selector	sélecteur	Selektor	seleccionador
04	2056.714503	1	pulsante	pushbutton	bouton-poussoir	Druckknopf	pulsador
09	3E.I35SW210	4	interruttore	switch	interrupteur	Schalter	interruptor
10	3E.I35SW020	1	vetro	glass	vitre	Scheibe	cristal
11	3E.I35SW071	1	vetro	glass	vitre	Scheibe	cristal
12	3E.I35SW223	1	interruttore	switch	interrupteur	Schalter	interruptor
13	3E.I35SW040	1	vetro	glass	vitre	Scheibe	cristal
14	3E.I35SW051	1	vetro	glass	vitre	Scheibe	cristal
15	3E.I35SW010	1	vetro	glass	vitre	Scheibe	cristal
16	3E.I35SW212	1	interruttore	switch	interrupteur	Schalter	interruptor
17	3E.I35SW005	1	vetro	glass	vitre	Scheibe	cristal
18	3E.S17217	1	pannello	panel	assise	Sitzkissen	panel
19	3E.S17203	1	pannello	panel	assise	Sitzkissen	panel
20	3E.S17204	1	pannello	panel	assise	Sitzkissen	panel
21	3E.S17216	1	pannello	panel	assise	Sitzkissen	panel
22	3E.V02001	1	piantone sterzo	steering column	colonne de direction	Lenksäule	barra de la dirección

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FANTUZZI REGGIANE

QUADRO COMANDI
CONTROL PANEL
TABLEAU DE COMMANDE
SCHALTTAFEL
TABLERO DE MANDO

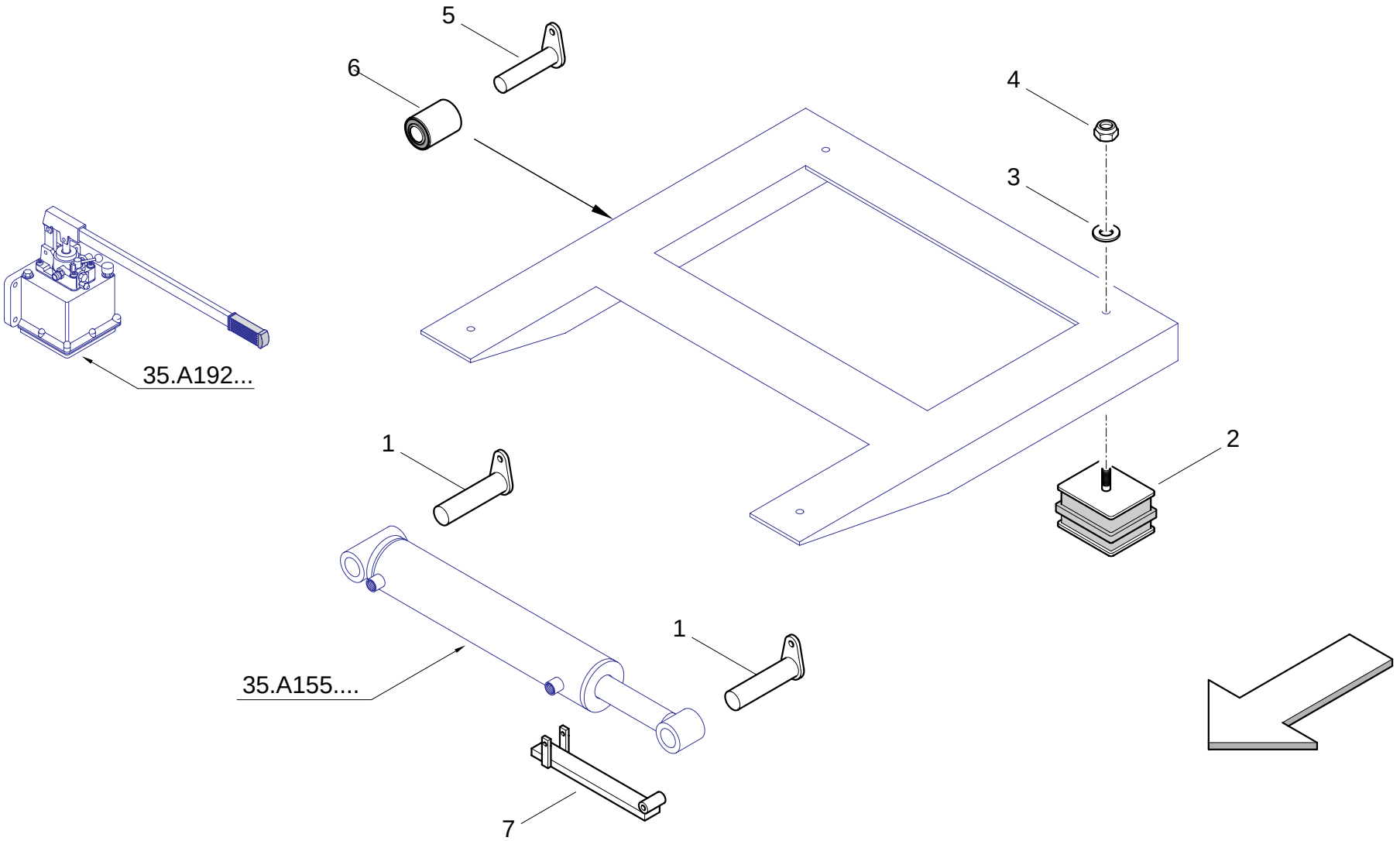
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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	M1902	2	perno	pin	axe	Gewindestift	pivote
02	29875130	2	antivibrante	vibration damper	amortisseur	Silent Block	amortiguador
03	2900.111.0022	2	rosetta	washer	rondelle	Scheibe	arandela
04	2900.080.0032	2	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
05	M1903	2	perno	pin	axe	Gewindestift	pivote
06	2229.715001	2	boccola	bushing	palier	Lagerteil	casquillo
07	P2456T	1	fermo di sicurezza	safety catch	arrêt de sûreté	Sicherheitsanschlag	fijación de seguridad

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50.G012.001



FANTUZZI REGGIANE

CILINDRO INCLINAZIONE CABINA
CABIN INCLINATION CYLINDER
VERIN D'INCLINAISON CABINE
NEIGEZYLINDER DER KABINE
CILINDRO DE INCLINACION DE LA CABINA

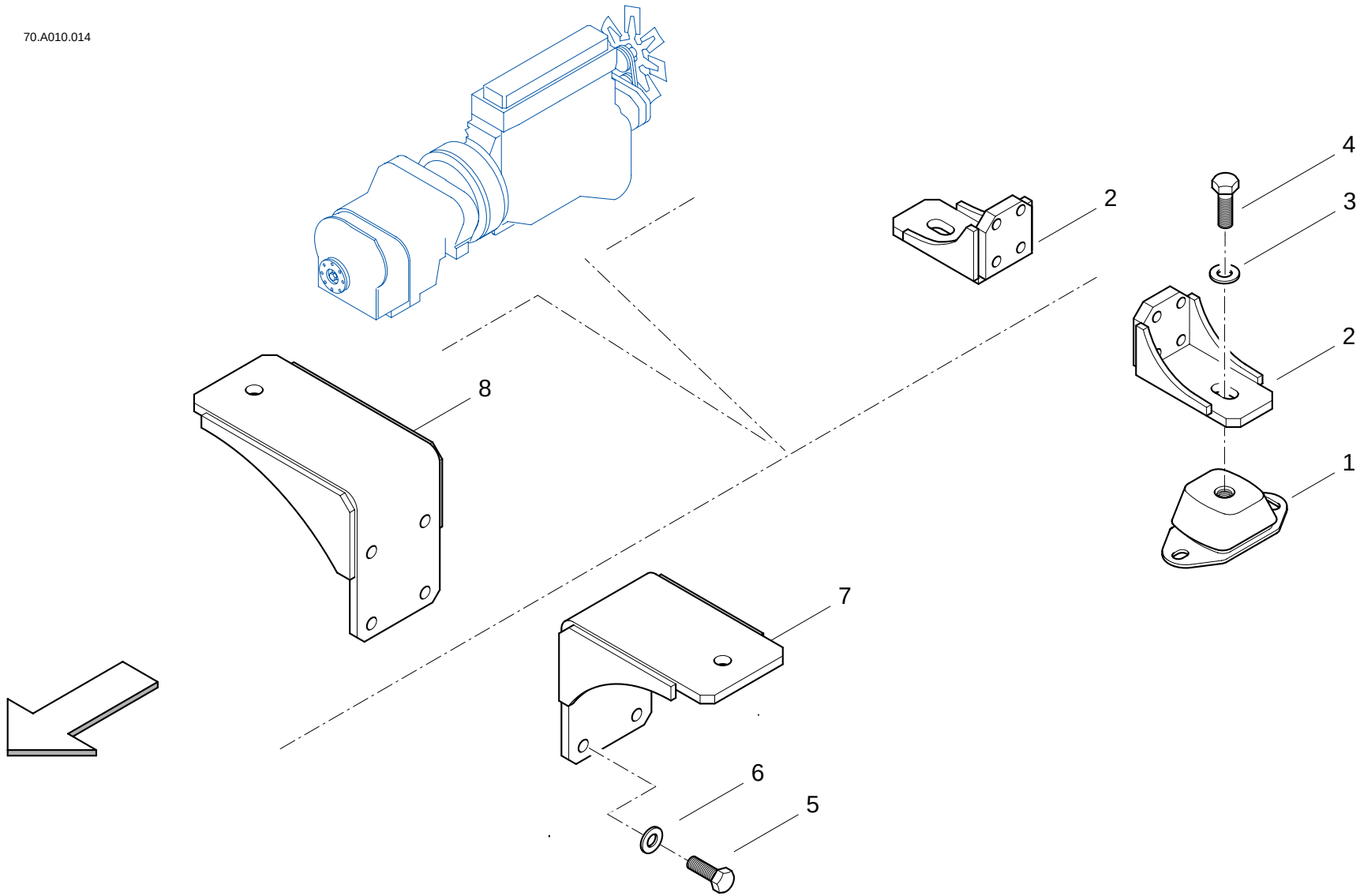
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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2299.637002	4	antivibrante	vibration damper	amortisseur	Silent Block	amortiguador
02	M1967T	2	supporto	support	support	Träger	soporte
03	2900.111.0009	4	rosetta piana	flat washer	rondelle plate	Scheibe	arandela plana
04	2900.005.0016	4	vite	screw	vis	Schraube	tornillo
05	2900.010.0007	8	vite	screw	vis	Schraube	tornillo
06	2900.111.0012	8	rosetta	washer	rondelle	Scheibe	arandela
07	M1921T	1	supporto	support	support	Träger	soporte
08	M1922T	1	supporto	support	support	Träger	soporte

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70.A010.014



FANTUZZI REGGIANE

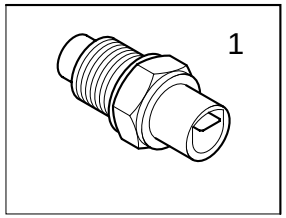
SUPPORTI MOTORE E TRASMISSIONE
MOTOR AND TRANSMISSION SUPPORTS
SUPPORTS MOTEUR ET TRANSMISSION
MOTOR- UND GETRIEBESTÄNDER
SOPORTES DE MOTOR Y TRANSMISIÓN

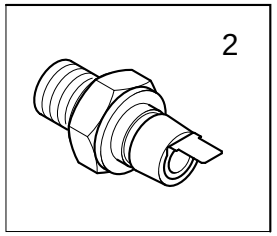
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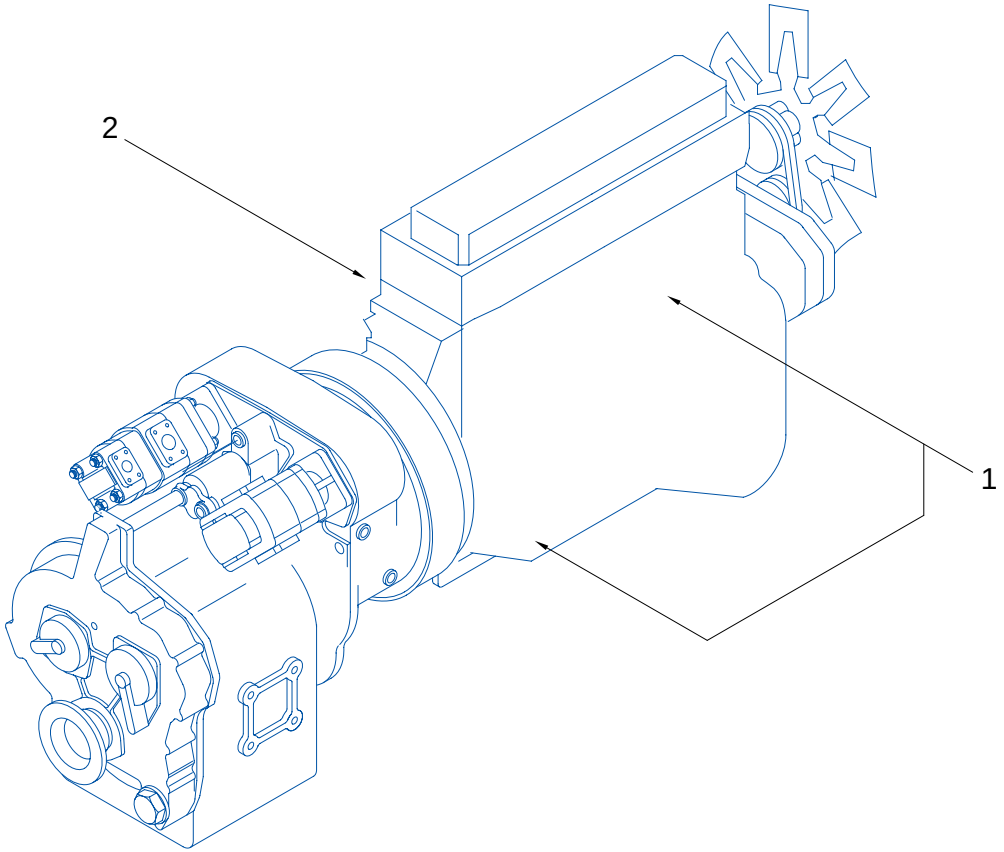
https://truckmanualshub.com/

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	29845716	2	termostato	thermostat	thermostat	Thermostat	termostato
02	29816227	1	trasmettitore pressione	pressure transmitter	transmetteur	Druckgeber	trasmisor

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FANTUZZI REGGIANE

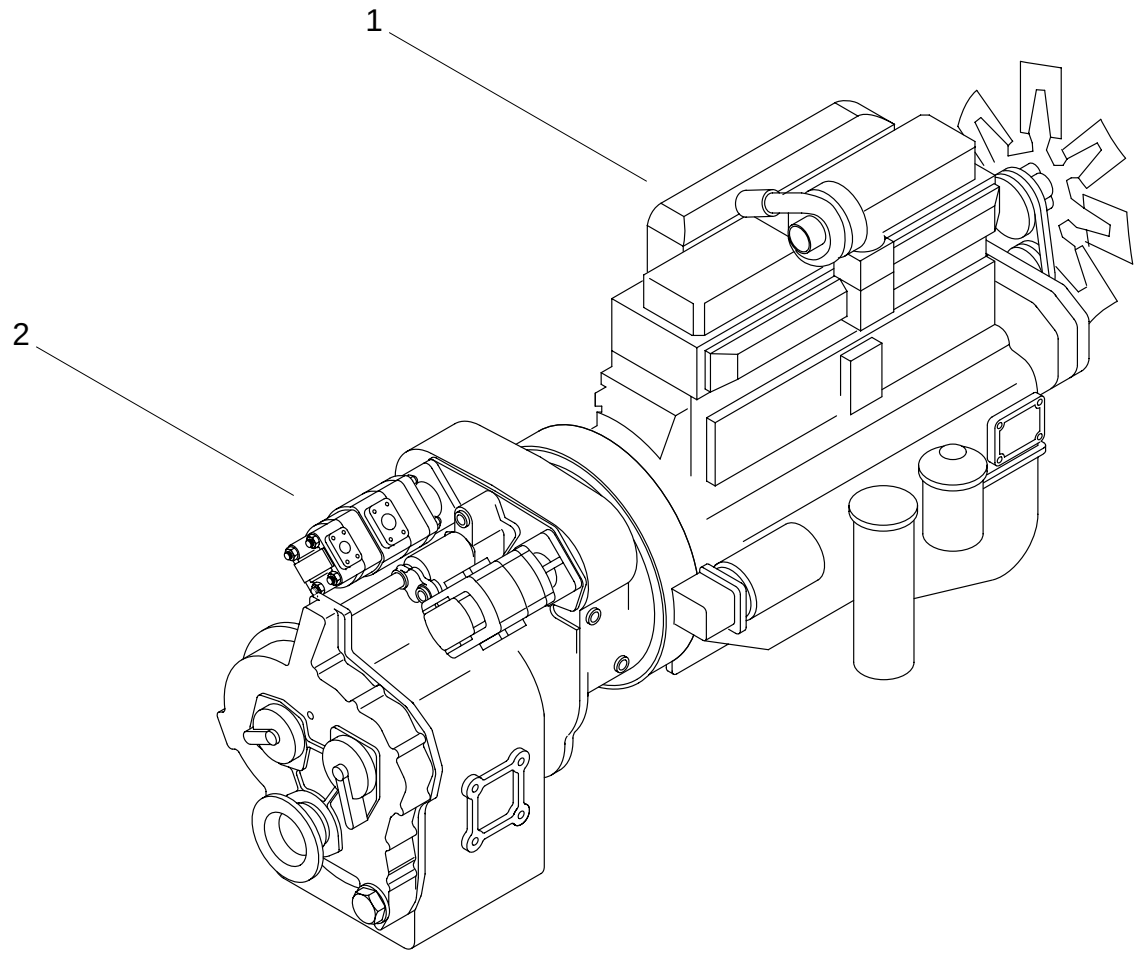
SONDE CONTROLLO PRESSIONE E TEMPERATURE
PRESSURE AND TEMPERATURE CONTROL PROBES
SONDES CONTRÔLE PRESSION ET TEMPÉRATURES
DRUCK- UND TEMPERATURKONTROLLSONDEN
SONDAS CONTROL DE PRESIÓN Y TEMPERATURA

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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2562.070.0005	1	motore diesel	diesel engine	moteur diesel	Dieselmotor	motor diesel
02	2247.010.0003	1	cambio	gearbox	boîte de vitesses	Schaltgetriebe	caja de velocidades

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70.A010.023



FANTUZZI REGGIANE

ACCOPPIAMENTO MOTORE CAMBIO
MOTOR GEAR COUPLING
COUPLEMENT MOTEUR BOÎTE DE VITESSE
VERBINDUNG MOTOR/SCHALTGETRIEBE
ACOPLAMIENTO MOTOR CAMBIO

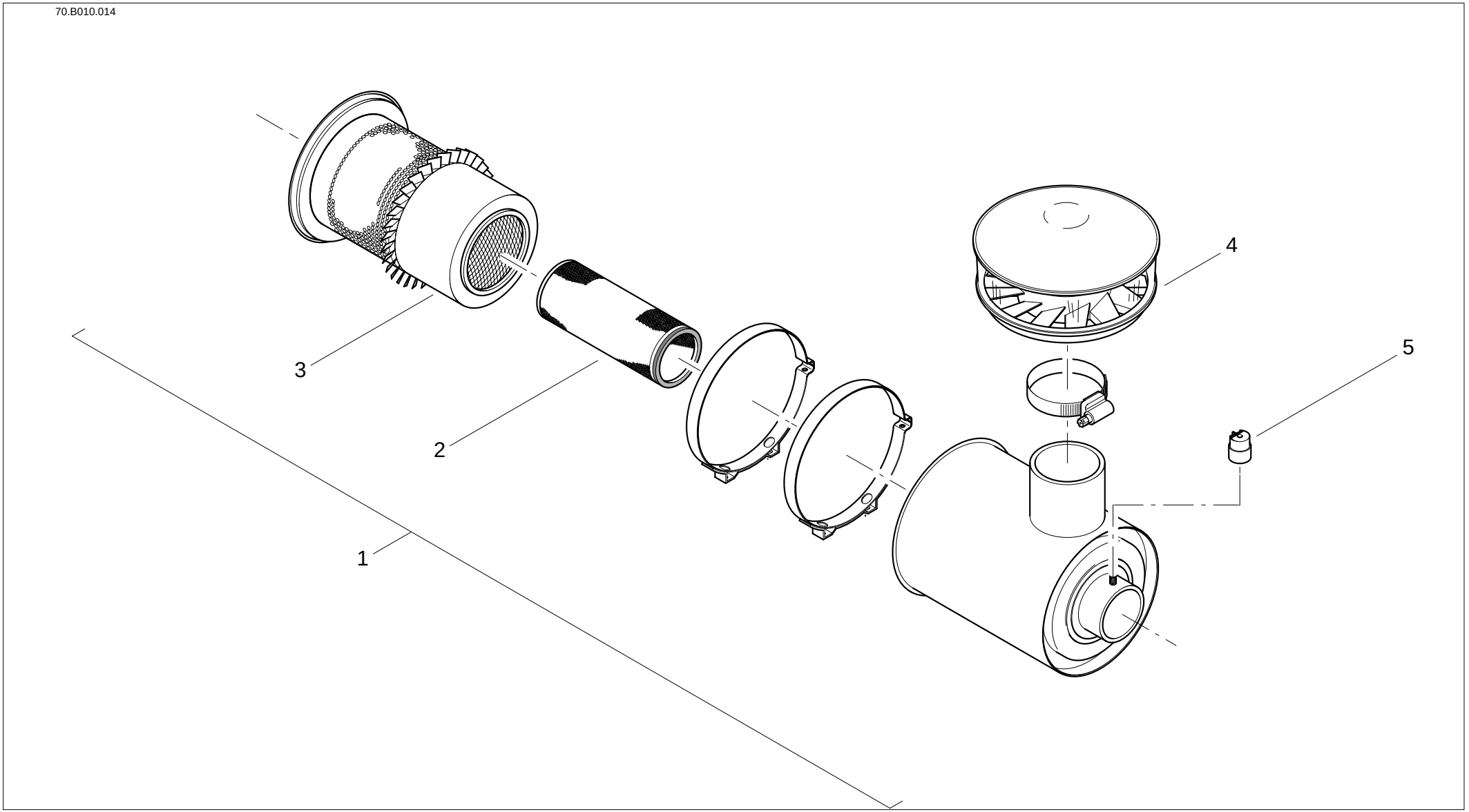
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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2470.716001	1	filtro aria	air cleaner	filtre à air	Luftfilter	filtro de aire
02	2PPP133138	1	cartuccia	cartridge	cartouche	Patrone	cartucho
03	2XLP772555	1	cartuccia	cartridge	cartouche	Patrone	cartucho
04	7D.PBHOO-0823	1	prefiltro	precleaner	préfiltre	Vorfilter	predepurador
05	29845719	1	indicatore intasamento	clogged gauge	indicateur de colmat.	Verstopfungsanzeiger	indicador presión

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70.B010.014



FANTUZZI REGGIANE

FILTRO ARIA
AIR CLEANER
FILTRE A AIR
LUFTFILTER
FILTRO DEL AIRE

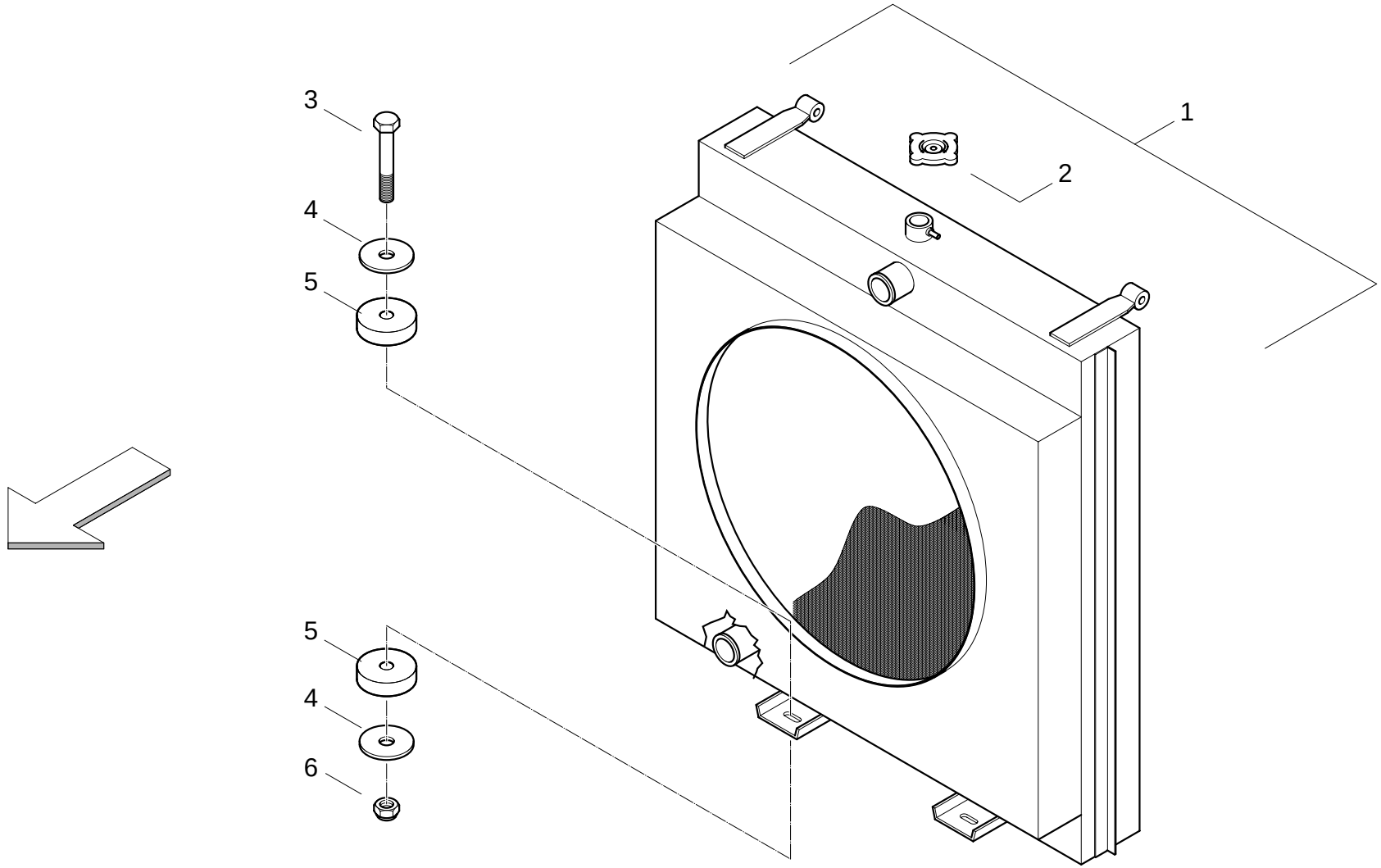
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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2225.677003	1	radiatore	cooler	radiateur	Kühler	radiador
02	29875187	1	tappo	cap	bouchonn	Verschlußdeckel	tapon
03	2900.005.0044	1	vite	screw	vis	Schraube	tornillo
04	2900.111.0014	1	rosetta	washer	rondelle	Scheibe	arandela
05	2299.010.0001	1	antivibrante	vibration damper	amortisseur	Silent Block	amortiguador
06	2900.080.0008	1	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante

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70.D010.076



FANTUZZI REGGIANE

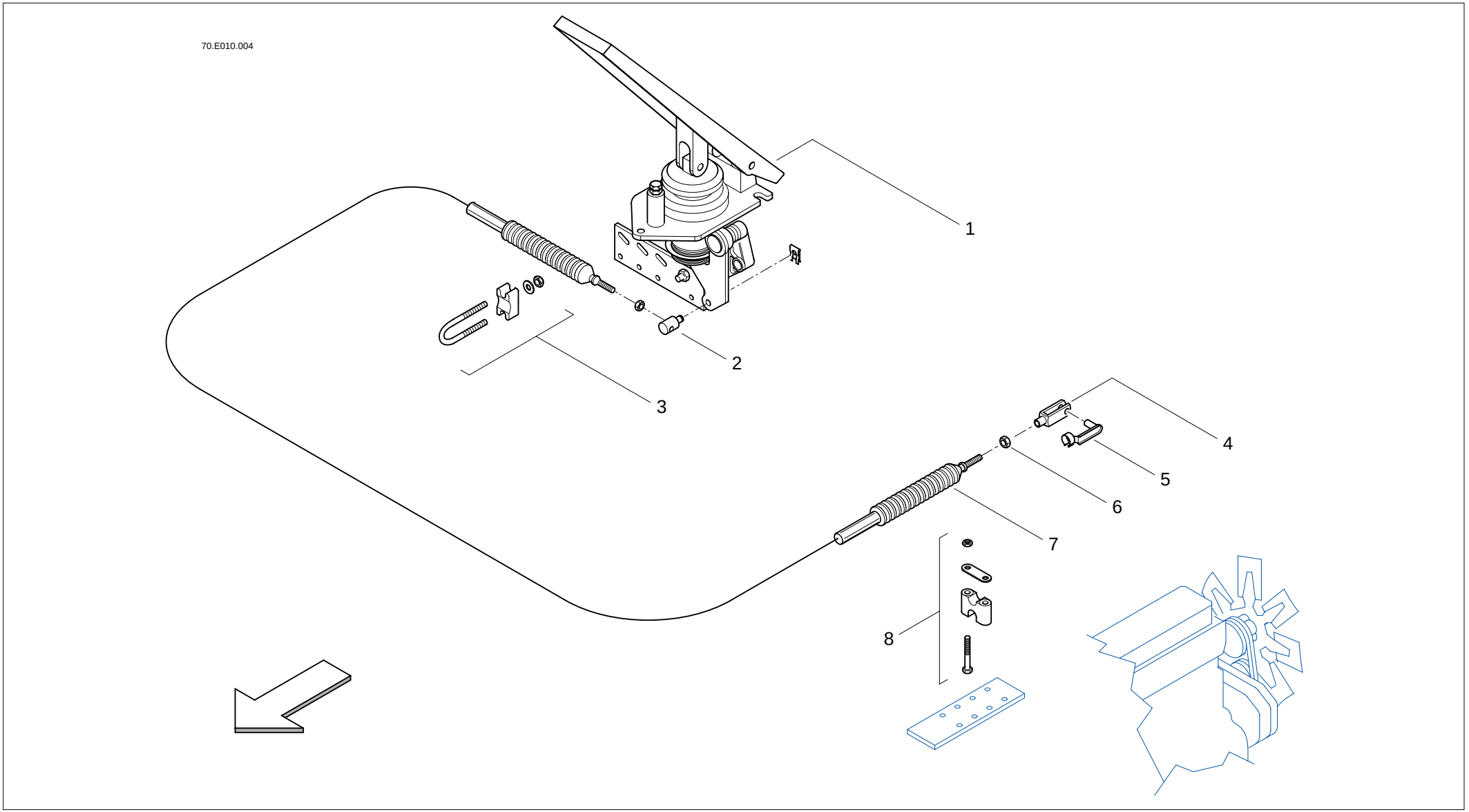
RADIATORE
COOLER
RADIATEUR
KÜHLER
RADIADOR

Tav. Tab. Taf.	70.D010.076	02/03
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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	29875169	1	pedale acceleratore	accelerator pedal	pédale accélérateur	Gaspedal	pedal del acelerador
02	1I.210129	1	testina	head	chape d'attelage	Kupplungslasche	brida de enganche
03	1I.216581	1	morsetto	clamp	bride	Klemme	abrazadera
04	2375.030.0001	1	forcella	yoke	chape	Gabel	horquilla
05	2375.031.0001	1	spinotto	gudgeon pin	axe	Bolzen	perno
06	29845873	2	dado	nut	écrou hexagonaux	Mutter	tuerca
07	29875170	1	cavo acceleratore	accelerator cable	câble accélérateur	Gashebelkabel	cable del acelerador
08	1I.208439	1	morsetto	clamp	bride	Klemme	abrazadera

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FANTUZZI REGGIANE

ACCELERATORE
ACCELERATOR
ACCÉLÉRATEUR
BESCHLEUNIGER
ACELERADOR

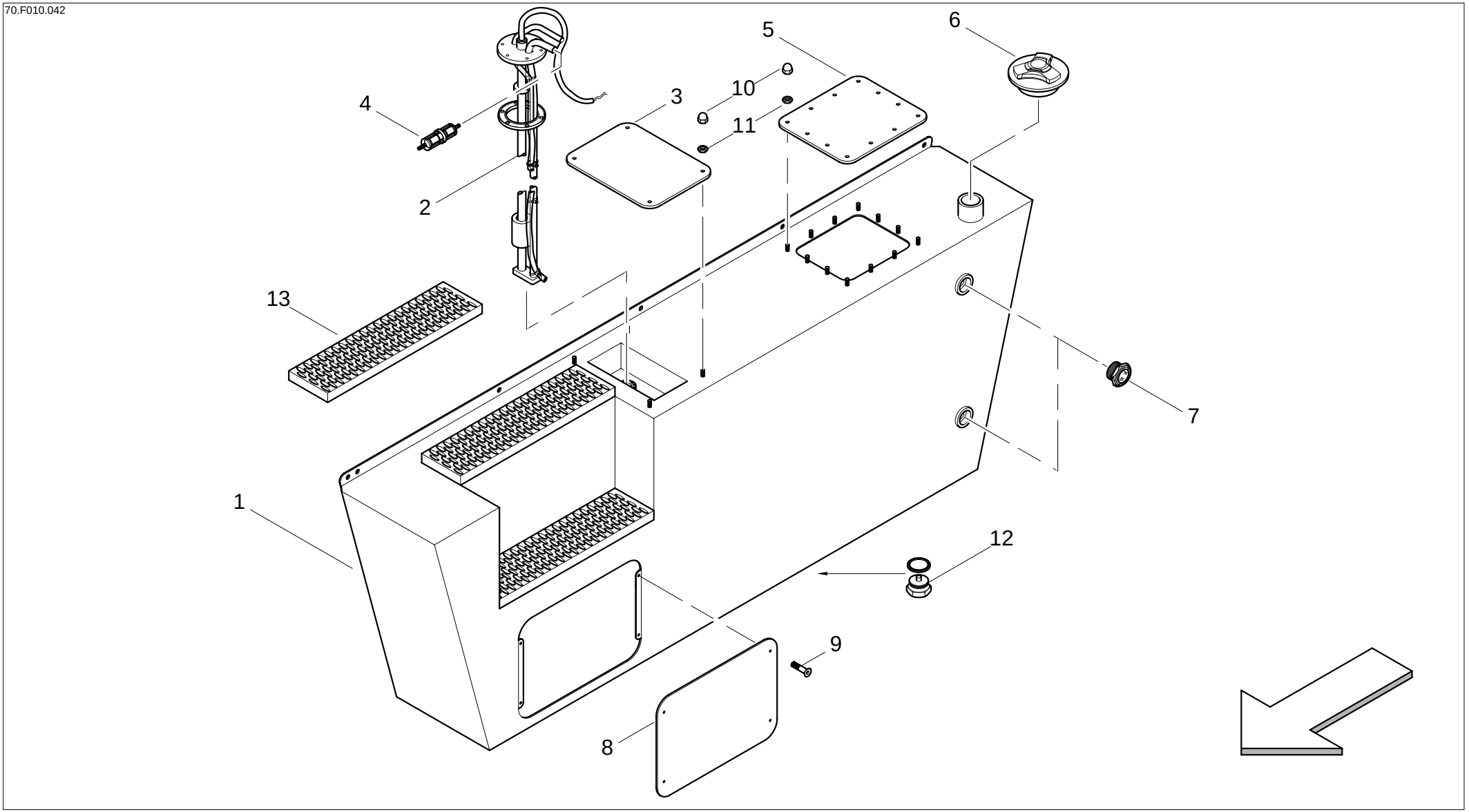
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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	N0352T	1	serbatoio carburante	fuel tank	réservoir combustible	Kraftstoffbehälter	depósito de combust.
02	2055.740501	1	pescante	pick-up tube	tuyau	Rohr	tubo
03	M2940	1	coperchio	cover	couvercle	Deckel	tapa
04	2470.730501	1	filtro	filter	filtre	Filter	filtro
05	M3073T	1	coperchio	cover	couvercle	Deckel	tapa
06	2654.240504	1	tappo	cap	bouchonn	Verschlußdeckel	tapon
07	29875028	2	indicatore livello	level gauge	indicateur de niveau	Standanzeiger	indicador nivel
08	2900.025.0009	6	vite	screw	vis	Schraube	tornillo
09	N0206T	1	portello	door	portillon	Tür	portezuela
10	2900.105.0006	20	dado	nut	écrou hexagonaux	Mutter	tuerca
11	2900.070.0027	20	dado	nut	écrou hexagonaux	Mutter	tuerca
12	2654.011.0006	1	tappo di scarico	drain plug	bouchon de vidange	Olablaßstopfen	tapón de evacuación
13	N0349T	2	gradino	step	marche	Stufe	grada

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70.F010.042



FANTUZZI REGGIANE

SERBATOIO COMBUSTIBILE
FUEL TANK
RESERVOIR COMBUSTIBLE
KRAFTSTOFFTANK
DEPOSITO COMBUSTIBILE

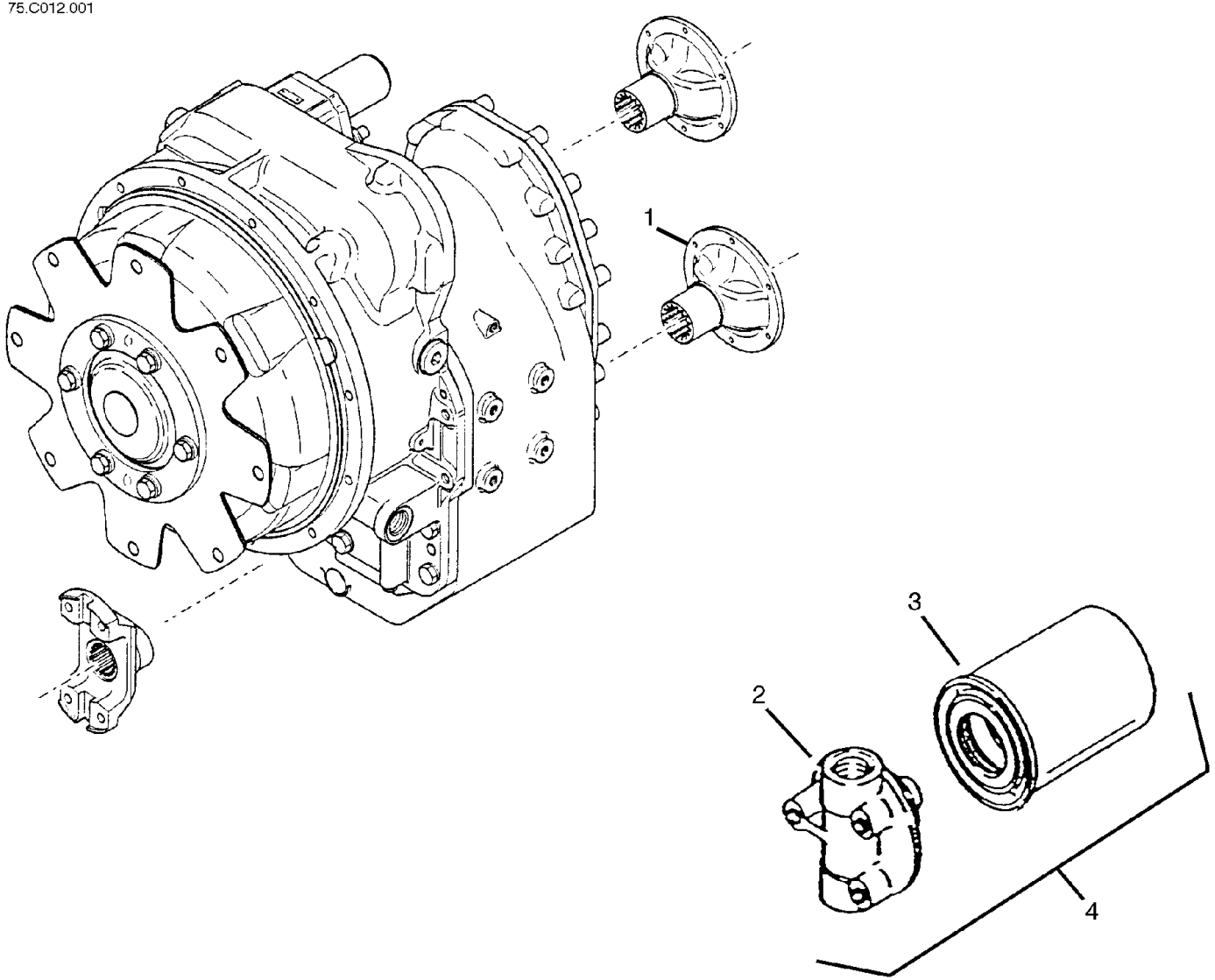
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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2C.4200123	1	flangia	flange	bride	Flansch	brida
02	2C.236645	1	adattatore	adapter	adaptateur	Adapter	adaptador
03	2C.247052	1	filtro	filter	filtre	Filter	filtro
04	2C.247055	1	filtro	filter	filtre	Filter	filtro

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75.C012.001



FANTUZZI REGGIANE

CAMBIO
GEARBOX
BOÎTE DE VITESSES
SCHALTGETRIEBE
CAJA DE VELOCIDADES

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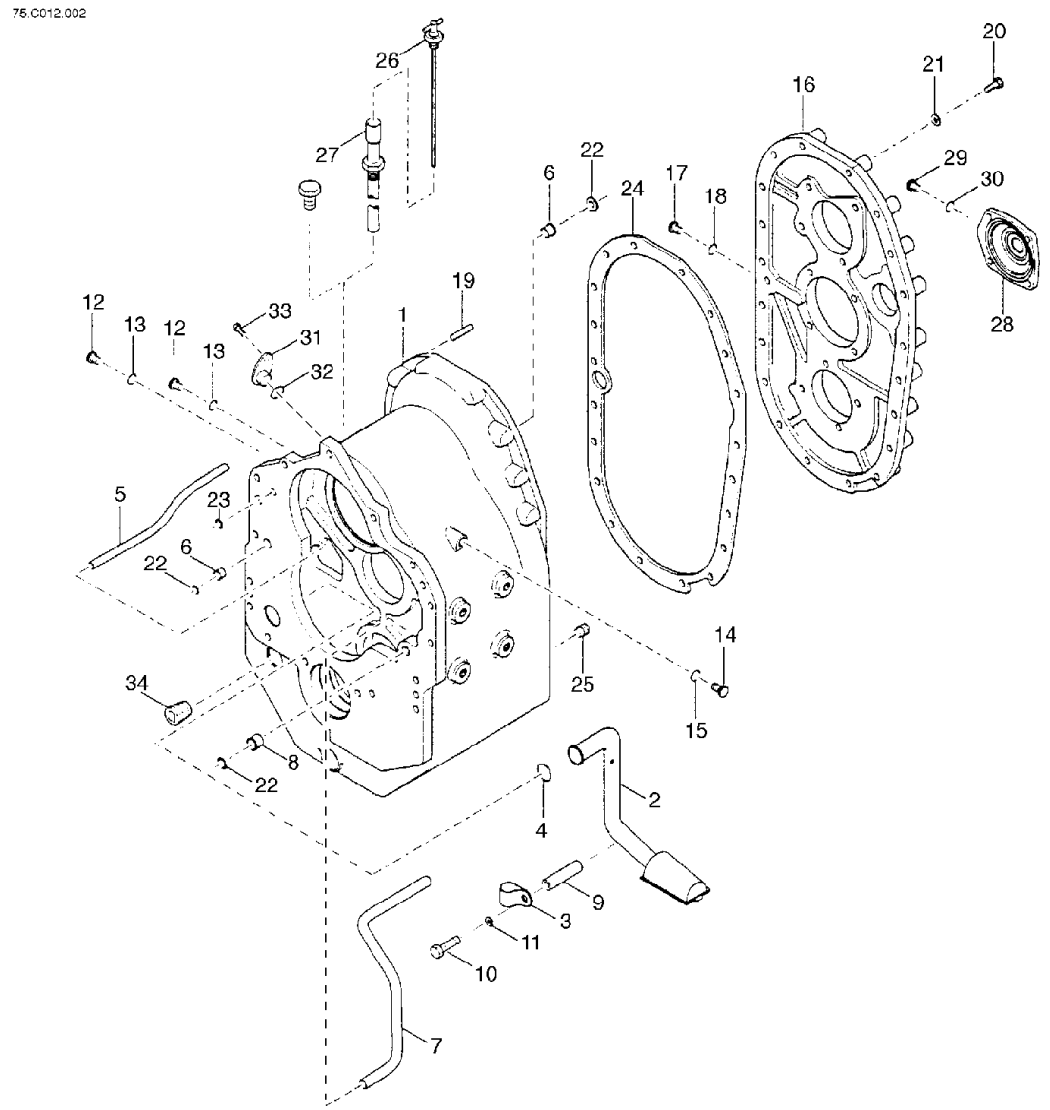
Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2C.4206290	1	carter	housing	carter	Gehäuse	cárter
02	2C.4206289	1	tubo	pipe	tube	Rohr	tubo
03	2C.6H42	1	fascetta	clamp	collier	Schelle	abrazadera
04	2C.4205097	1	guarnizione	gasket	joint	Abdichtprofil	junta
05	2C.234157	1	tubo	pipe	tube	Rohr	tubo
06	2C.222067	2	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
07	2C.4205588	1	tubo	pipe	tube	Rohr	tubo
08	2C.221871	1	manicotto	pipe coupling	manchon	Muffe	manguito
09	2C.4206341	1	distanziale	spacer	entretoise	Hülse	separador
10	2C.1C752	1	vite	screw	vis	Schraube	tornillo
11	2C.4E7	1	rosetta	washer	rondelle	Scheibe	arandela
12	2C.47K5	2	tappo	cap	bouchonn	Verschlußdeckel	tapon
13	2C.91F5	2	guarnizione	gasket	joint	Abdichtprofil	junta
14	2C.47K6	1	tappo	cap	bouchonn	Verschlußdeckel	tapon
15	2C.91F6	1	guarnizione	gasket	joint	Abdichtprofil	junta
16	2C.4206293	1	carter	housing	carter	Gehäuse	cárter
17	2C.47K5	1	tappo	cap	bouchonn	Verschlußdeckel	tapon
18	2C.91F5	1	guarnizione	gasket	joint	Abdichtprofil	junta
19	2C.4203907	2	perno	pin	axe	Gewindestift	pivote
20	2C.17C728	20	vite	screw	vis	Schraube	tornillo
21	2C.4E7	20	rosetta	washer	rondelle	Scheibe	arandela
22	2C.60K40026	3	guarnizione	gasket	joint	Abdichtprofil	junta
23	2C.60K30018	2	guarnizione	gasket	joint	Abdichtprofil	junta
24	2C.4206294	1	guarnizione	gasket	joint	Abdichtprofil	junta
25	2C.215757	2	tappo	cap	bouchonn	Verschlußdeckel	tapon
26	2C.244365	1	asta livello olio				

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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
27	2C.244366	1	tubo	pipe	tube	Rohr	tubo
28	2C.4206296	1	coperchio	cover	couvercle	Deckel	tapa
29	2C.47K5	1	tappo	cap	bouchonn	Verschlußdeckel	tapon
30	2C.91F5	1	guarnizione	gasket	joint	Abdichtprofil	junta
31	2C.4202489	1	tappo	cap	bouchonn	Verschlußdeckel	tapon
32	2C.4203422	1	guarnizione	gasket	joint	Abdichtprofil	junta
33	2C.3GM612	1	vite	screw	vis	Schraube	tornillo
34	2C.11F16	1	tappo	cap	bouchonn	Verschlußdeckel	tapon

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ASSIEME CARTER TRASMISSIONE
TRANSMISSION CARTER
ENSEMBLE CARTER DE LA TRANSMISSION
CARTER ANTRIEB GRUPPE
CONJUNTO CÁRTER TRANSMISION

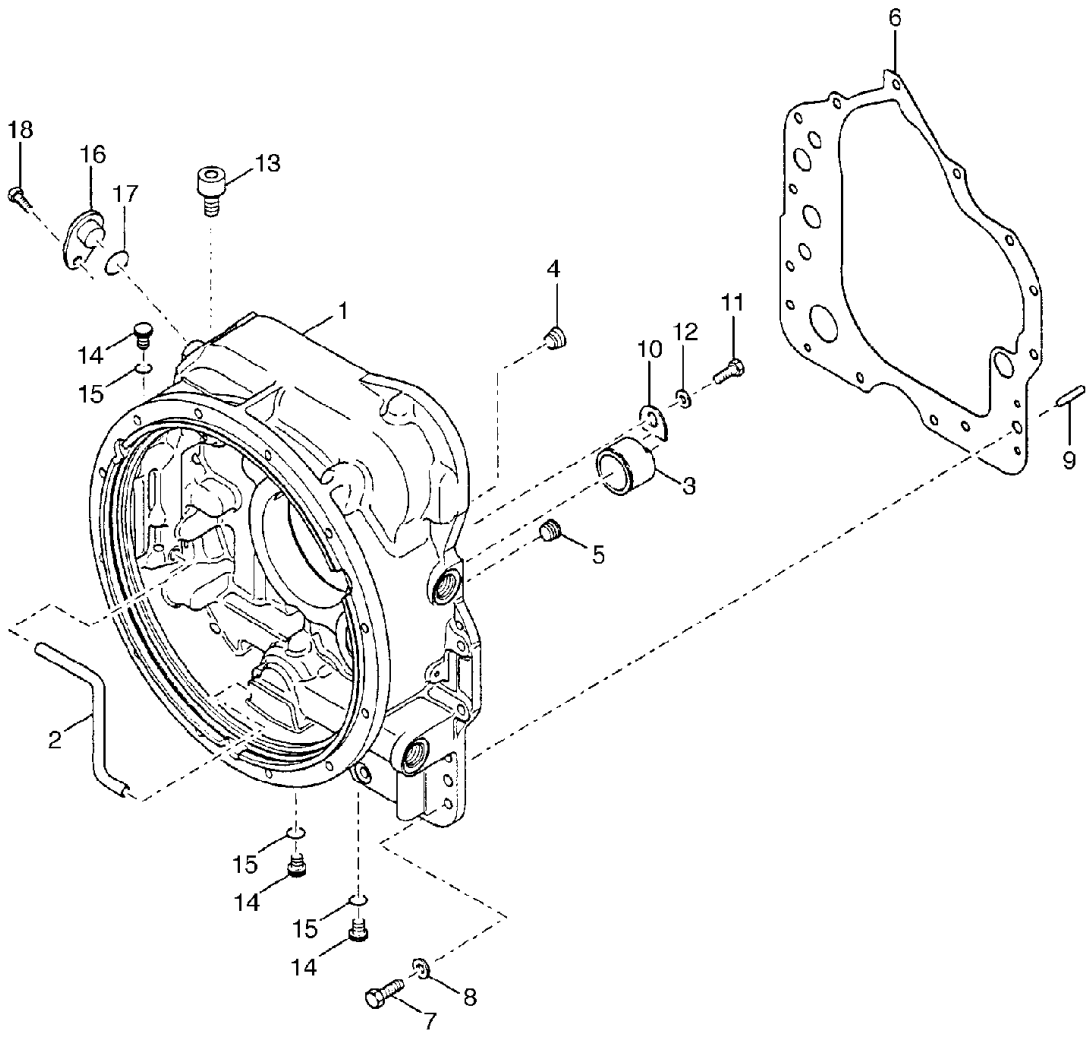
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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2C.4205585	1	carter	housing	carter	Gehäuse	cárter
02	2C.242832	1	tubo	pipe	tube	Rohr	tubo
03	2C.248612	1	manicotto	pipe coupling	manchon	Muffe	manguito
04	2C.11F8	1	tappo	cap	bouchonn	Verschlußdeckel	tapon
05	2C.239244	1	tappo	cap	bouchonn	Verschlußdeckel	tapon
06	2C.4205578	1	guarnizione	gasket	joint	Abdichtprofil	junta
07	2C.17C720	16	vite	screw	vis	Schraube	tornillo
08	2C.4E7	16	rosetta	washer	rondelle	Scheibe	arandela
09	2C.4203907	1	perno	pin	axe	Gewindestift	pivote
10	2C.230851	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
11	2C.1C510	1	vite	screw	vis	Schraube	tornillo
12	2C.4E5	1	rosetta	washer	rondelle	Scheibe	arandela
13	2C.238535	1	sfiato	breather pipe	reniflard	Entlüfter	respiradero
14	2C.47K5	3	tappo	cap	bouchonn	Verschlußdeckel	tapon
15	2C.91F5	3	guarnizione	gasket	joint	Abdichtprofil	junta
16	2C.4202489	1	tappo	cap	bouchonn	Verschlußdeckel	tapon
17	2C.4203422	1	guarnizione	gasket	joint	Abdichtprofil	junta
18	2C.3GM612	1	vite	screw	vis	Schraube	tornillo

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FANTUZZI REGGIANE

ASSIEME CARTER TRASMISSIONE
TRANSMISSION CARTER
ENSEMBLE CARTER DE LA TRANSMISSION
CARTER ANTRIEB GRUPPE
CONJUNTO CÁRTER TRANSMISION

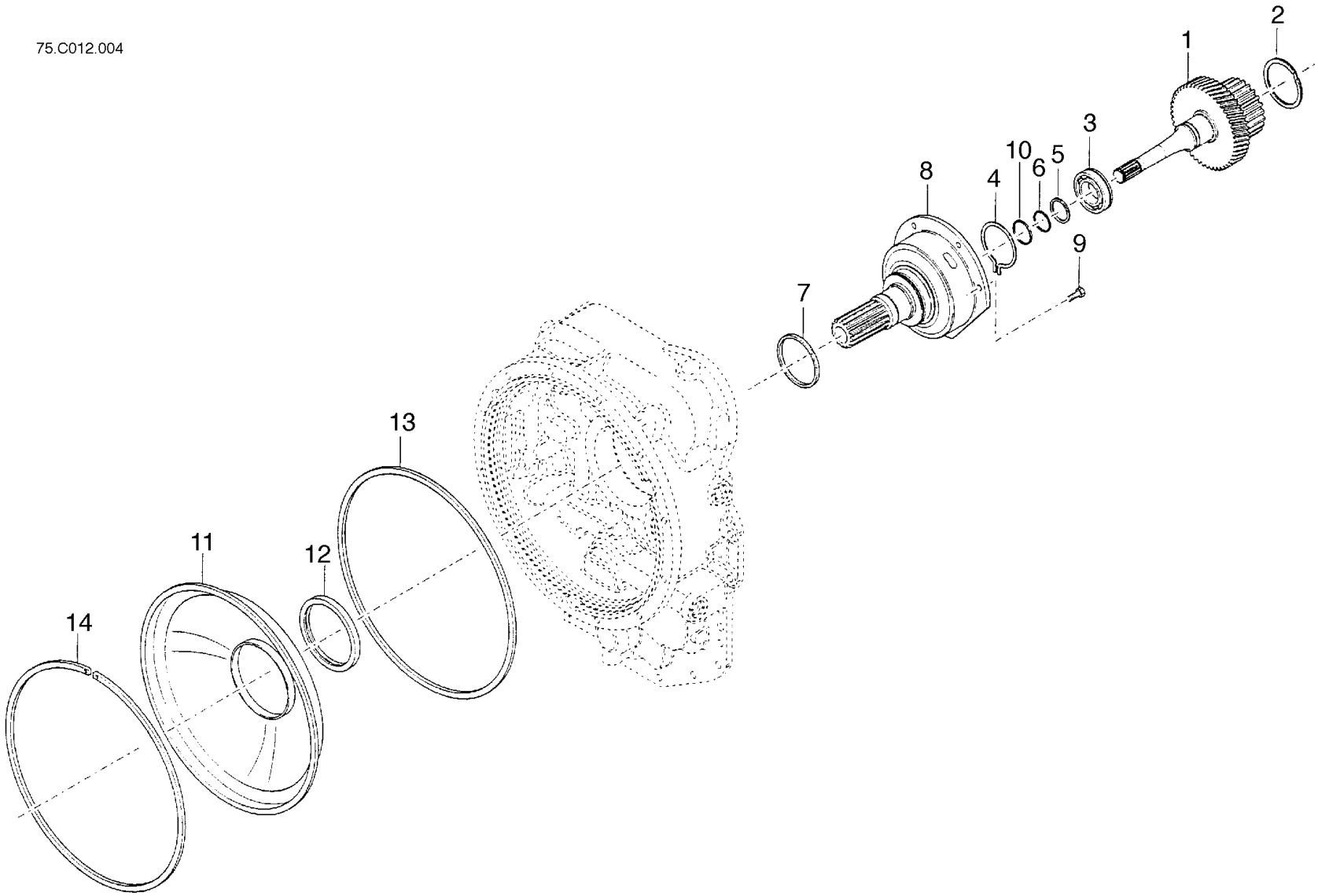
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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2C.4205762	1	turbina	impeller pump	pompe a turbine	Rotationspumpe	bomba de turbina
02	2C.240617	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
03	2C.4205105	1	cuscinetto	bearing	roulement	Lager	rodamiento
04	2C.234229	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
05	2C.234230	1	rosetta	washer	rondelle	Scheibe	arandela
06	2C.231776	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
07	2C.4205235	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
08	2C.4205236	1	supporto	support	support	Träger	soporte
09	2C.241308	6	vite	screw	vis	Schraube	tornillo
10	2C.250219	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
11	2C.242831	1	campana	housing	cloche	Gehäuse	campana
12	2C.4204710	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
13	2C.241237	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
14	2C.245787	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén

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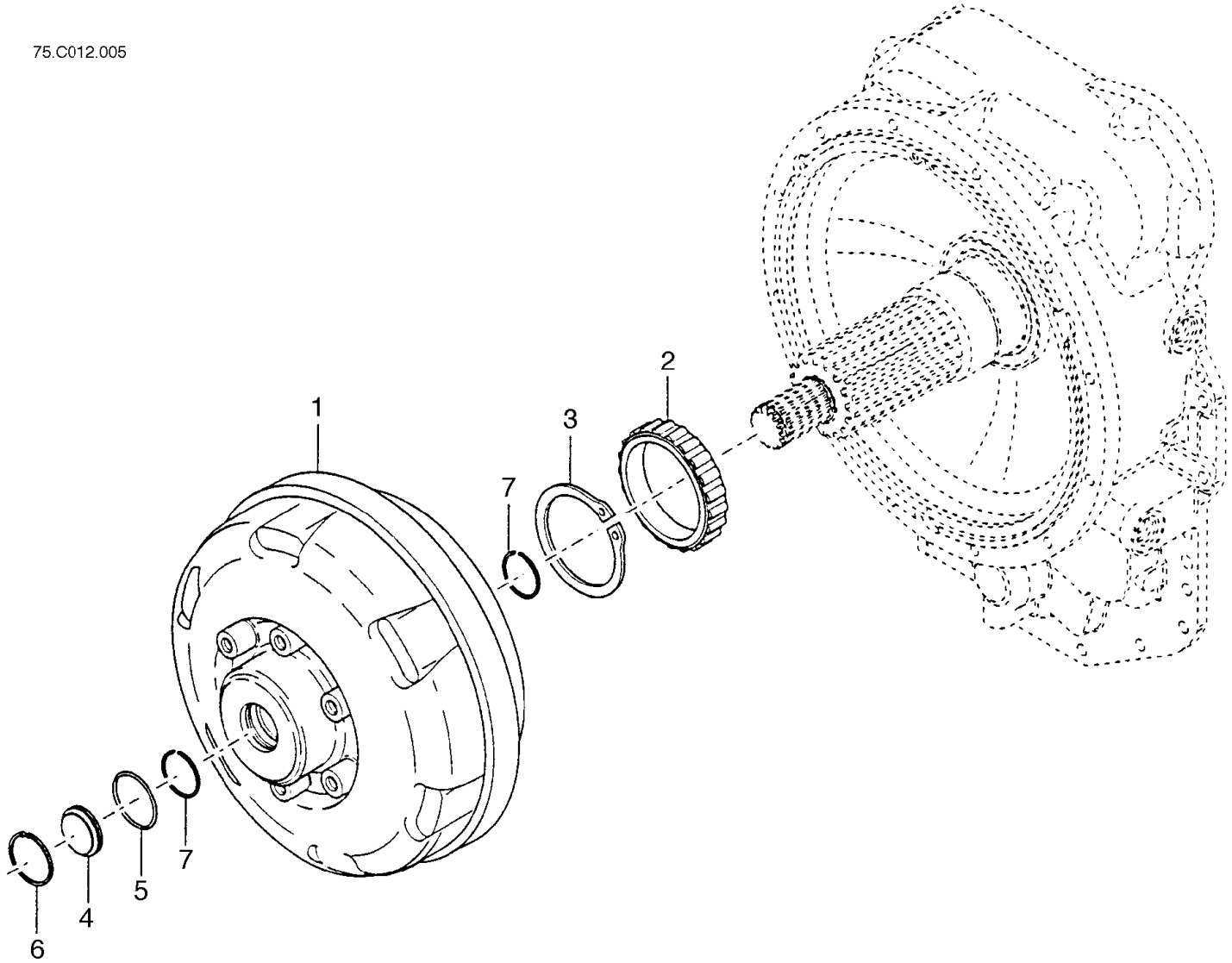
ASSIEME GIRANTE
TURNING ASSEMBLY
ENSEMBLE COURRONNE MOBILE
DREHENDE GRUPPE
CONJUNTO ROTOR

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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2C.4205113	1	convertitore	converter	convertisseur	Wechselrichter	convertidor
02	2C.238391	1	cuscinetto	bearing	roulement	Lager	rodamiento
03	2C.5JM45	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
04	2C.223015	1	tappo	cap	bouchonn	Verschlußdeckel	tapon
05	2C.60K30114	1	guarnizione	gasket	joint	Abdichtprofil	junta
06	2C.246354	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
07	2C.4205114	2	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén

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GRUPPO TURBINA
TURBINE ASSEMBLY
GROUPE DE LA TURBINE
TURBINE GRUPPE
GRUPO TURBINA

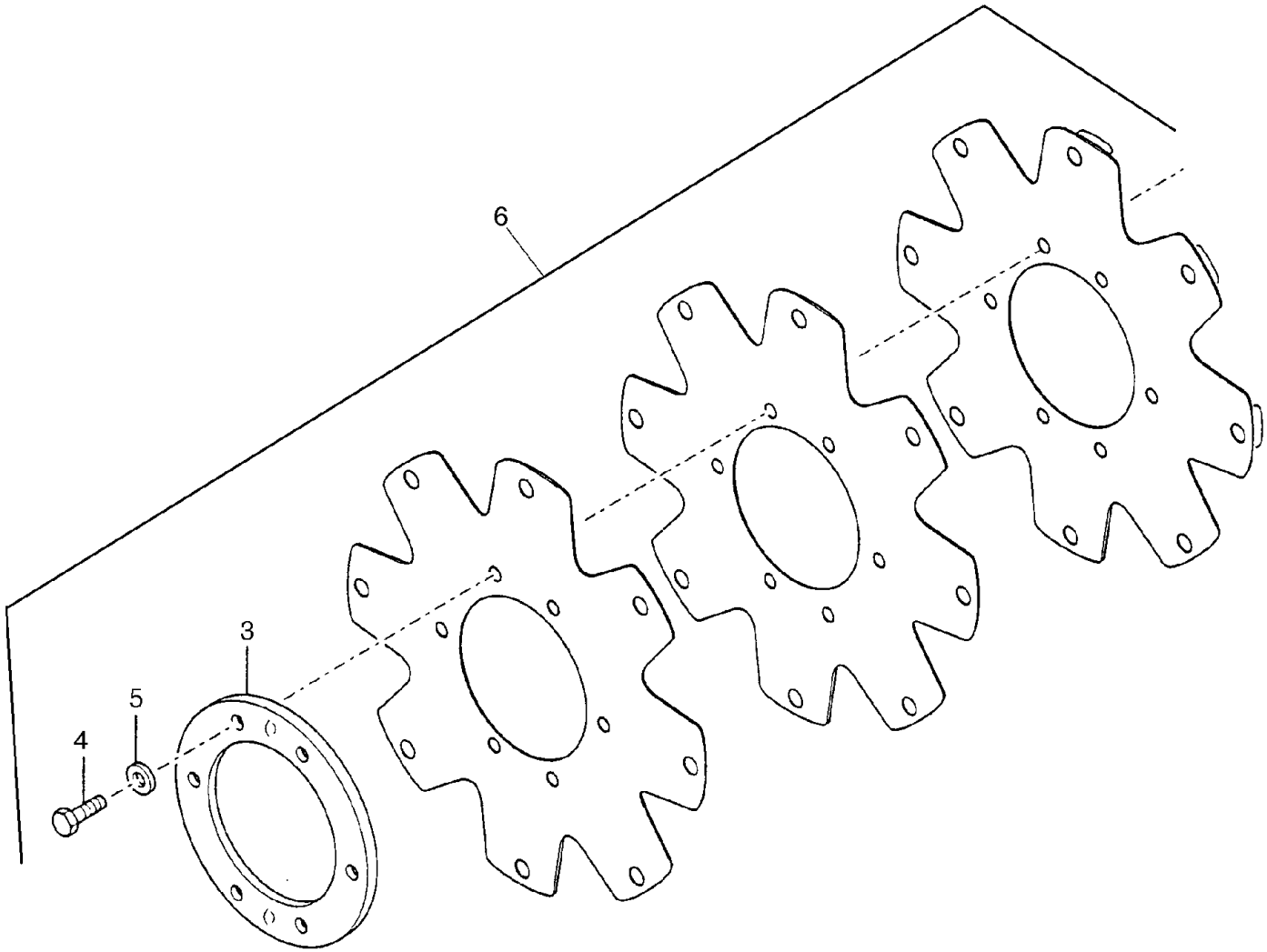
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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
03	2C.4205107	1	flangia	flange	bride	Flansch	brida
04	2C.4CM1020	6	vite	screw	vis	Schraube	tornillo
05	2C.6EM100	6	rosetta	washer	rondelle	Scheibe	arandela
06	2C.814975	1	flangia di accoppiamento	coupling flange	flasque d'accoupl.	Kupplungsflansch	brida de acoplamiento

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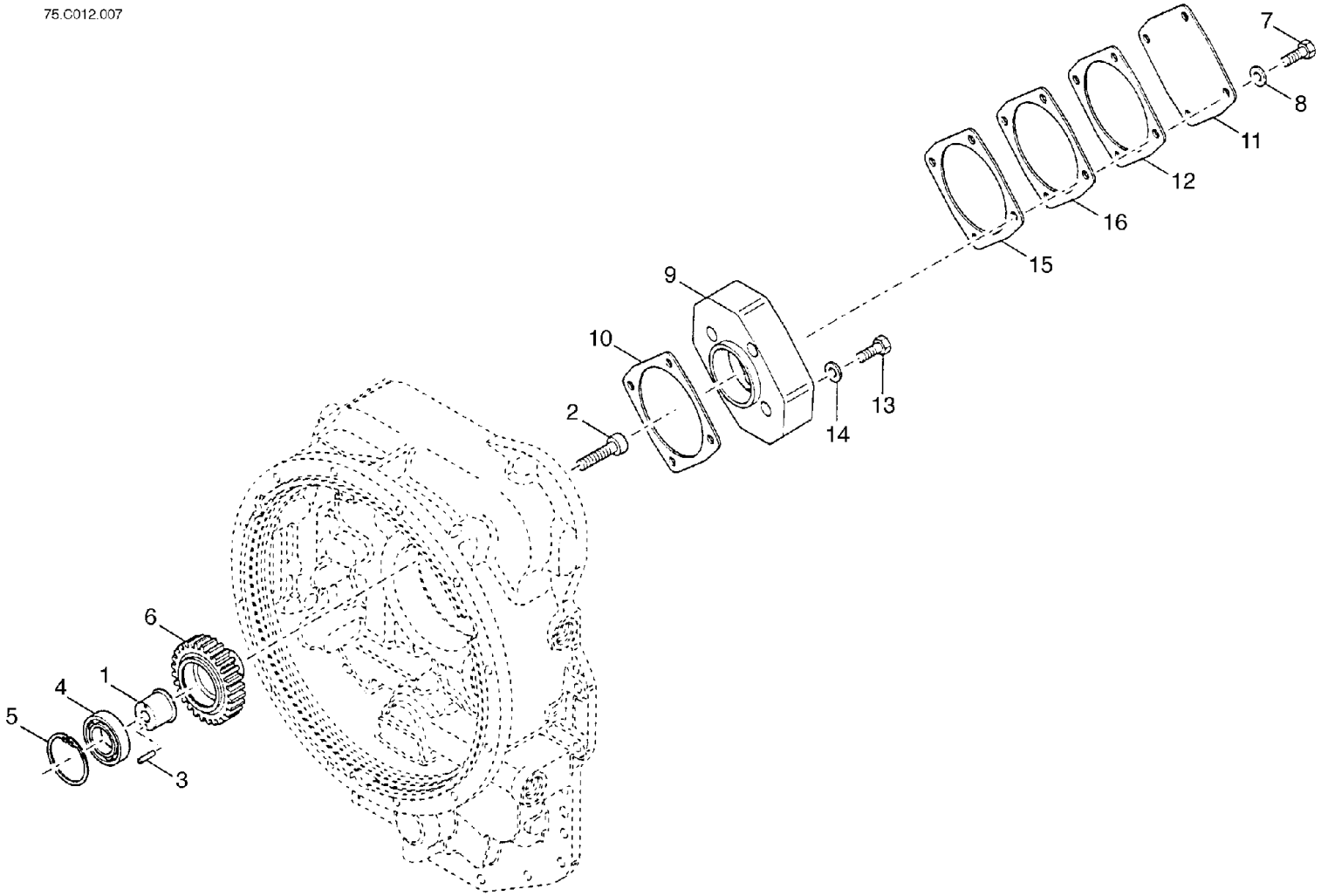
FLANGIA D'ACCOPPIAMENTO
COUPLING FLANGE
BRIDE D'ACCOUPLEMENT
FLANSCHVERBINDUNG
BRIDA DE ACOPLAMIENTO

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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2C.4205121	1	supporto	support	support	Träger	soporte
02	2C.73G828	1	vite	screw	vis	Schraube	tornillo
03	2C.4205122	1	spina	pin	axe	Bolzen	eje
04	2C.238222	1	cuscinetto	bearing	roulement	Lager	rodamiento
05	2C.223878	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
06	2C.4205224	1	ingranaggio	gear	engrenage	Zahnrad	engranaje
07	2C.1C816	4	vite	screw	vis	Schraube	tornillo
08	2C.4E8	4	rosetta	washer	rondelle	Scheibe	arandela
09	2C.4205226	1	adattatore	adapter	adaptateur	Adapter	adaptador
10	2C.243915	1	guarnizione	gasket	joint	Abdichtprofil	junta
11	2C.4206698	1	coperchio	cover	couvercle	Deckel	tapa
12	2C.4206699	1	guarnizione	gasket	joint	Abdichtprofil	junta
13	2C.93G824	4	vite	screw	vis	Schraube	tornillo
14	2C.22E8	4	rosetta	washer	rondelle	Scheibe	arandela
15	2C.4206098	1	guarnizione	gasket	joint	Abdichtprofil	junta
16	2C.4206099	1	piastra	plate	plaque	Platte	placa

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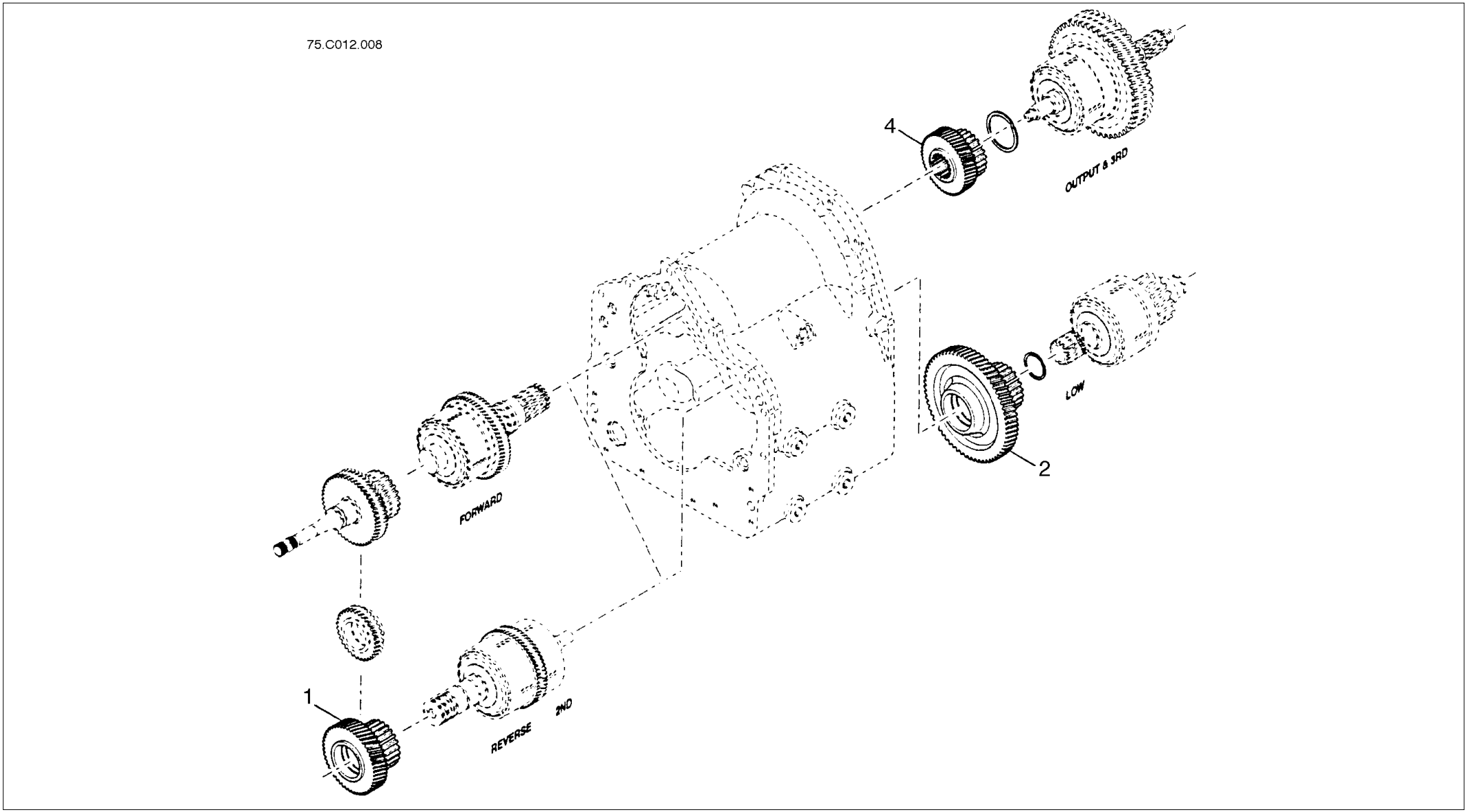
GRUPPO TRASCINAMENTO POMPA
PUMP DRIVE ASSEMBLY
GROUPE TRAINEMENT DE LA POMPE
PUMPE SCHLUHBETRIEB GRUPPE
GRUPO DE ARRASTRE BOMBA

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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2C.4205115	1	ingranaggio	gear	engrenage	Zahnrad	engranaje
02	2C.4203177	1	ingranaggio	gear	engrenage	Zahnrad	engranaje
04	2C.234956	1	ingranaggio	gear	engrenage	Zahnrad	engranaje

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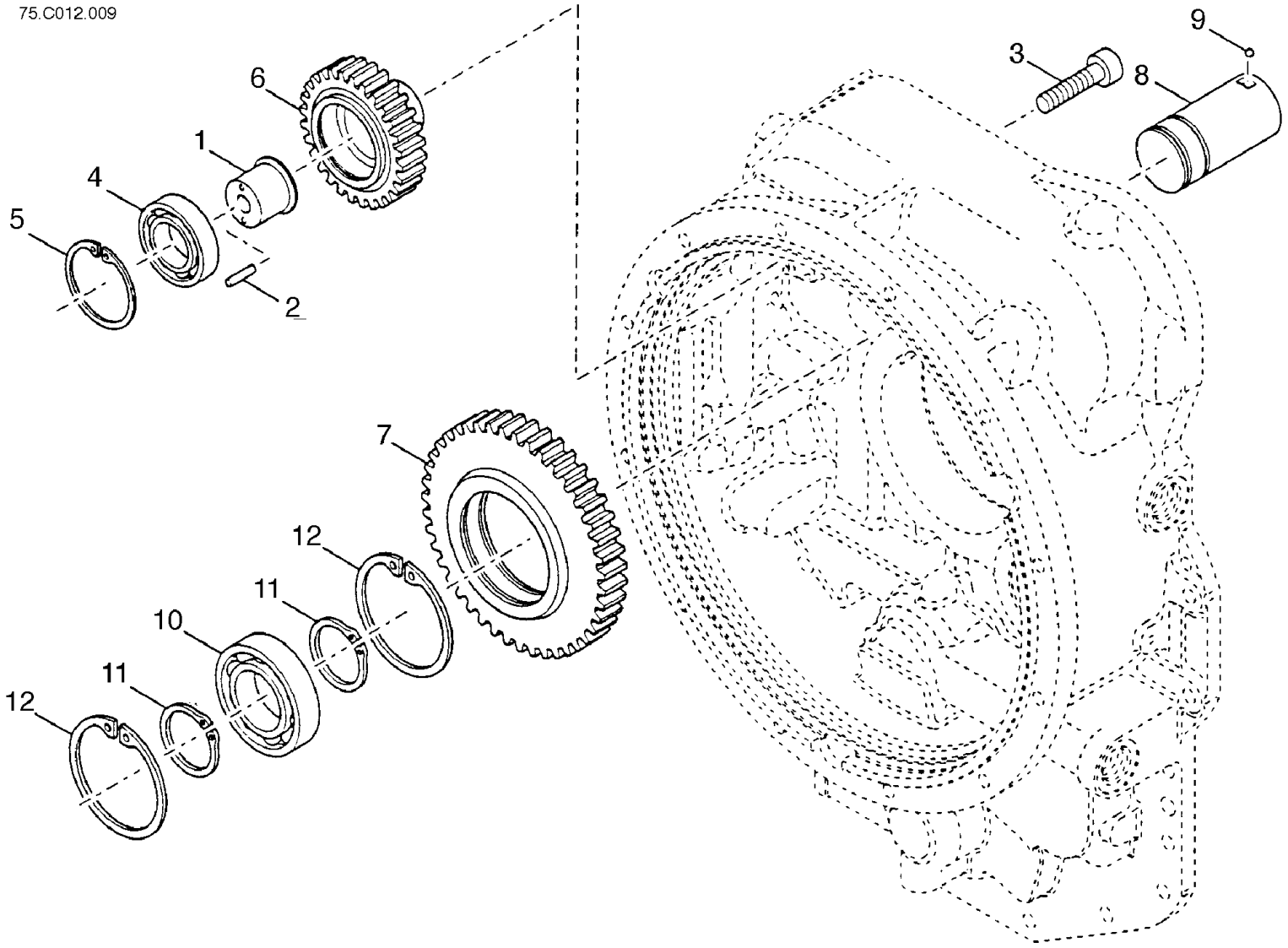
GRUPPO TRASCINAMENTO POMPA
PUMP DRIVE ASSEMBLY
GROUPE TRAINEMENT DE LA POMPE
PUMPE SCHLUHBETRIEB GRUPPE
GRUPO DE ARRASTRE BOMBA

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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2C.4205121	1	supporto	support	support	Träger	soporte
02	2C.4205122	1	spina	pin	axe	Bolzen	eje
03	2C.73G828	1	vite	screw	vis	Schraube	tornillo
04	2C.238222	1	cuscinetto	bearing	roulement	Lager	rodamiento
05	2C.223878	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
06	2C.4205124	1	ingranaggio	gear	engrenage	Zahnrad	engranaje
07	2C.4205125	1	ingranaggio	gear	engrenage	Zahnrad	engranaje
08	2C.238215	1	albero	shaft	arbre	Welle	árbol
09	2C.10J8	1	sfera	ball	bille	Kugel	esfera
10	2C.238223	1	cuscinetto	bearing	roulement	Lager	rodamiento
11	2C.234908	2	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
12	2C.223964	2	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén

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FANTUZZI REGGIANE

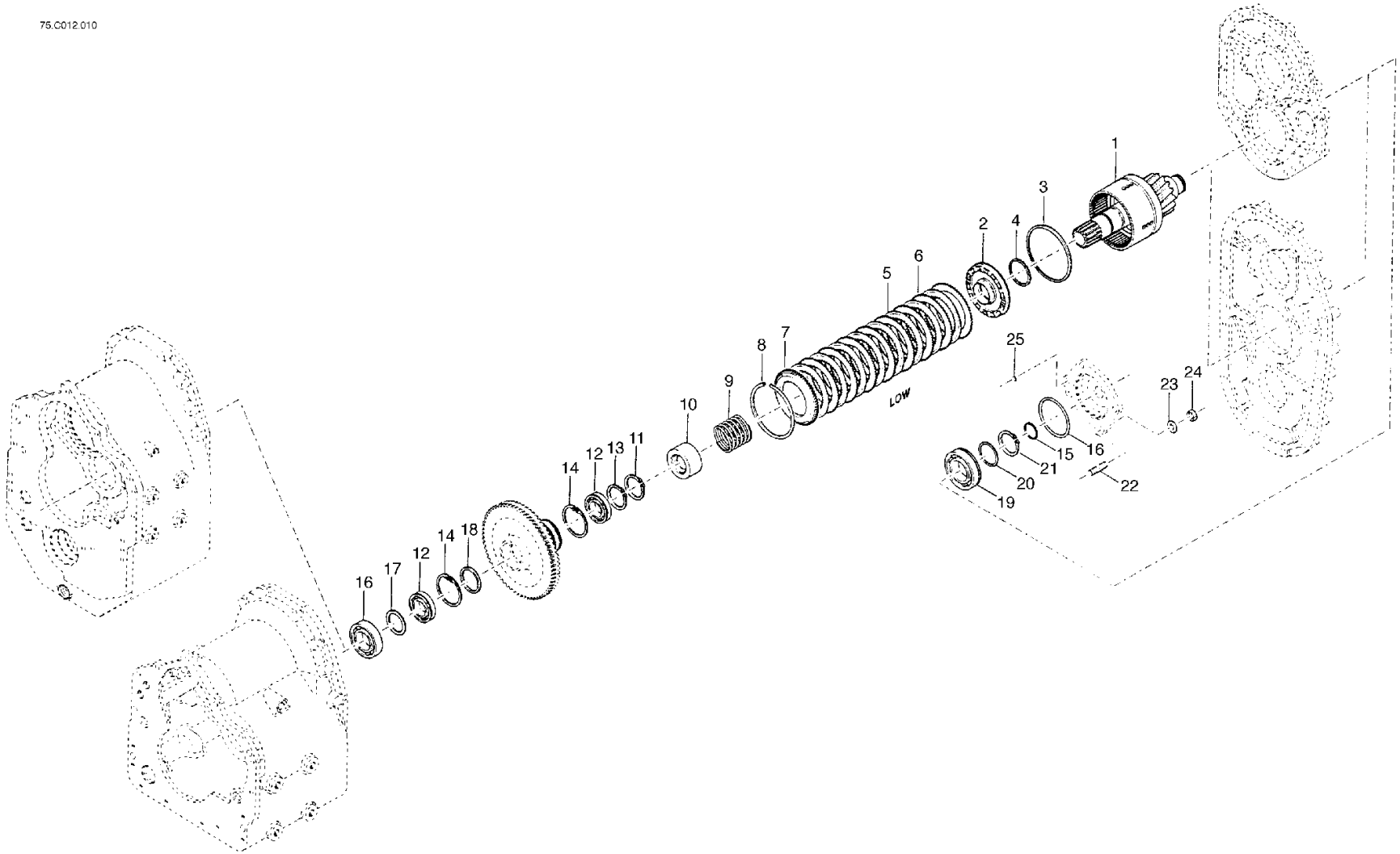
GRUPPO TRASCINAMENTO POMPA
PUMP DRIVE ASSEMBLY
GROUPE TRAINEMENT DE LA POMPE
PUMPE SCHLUHBETRIEB GRUPPE
GRUPO DE ARRASTRE BOMBA

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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2C.237211	1	albero	shaft	arbre	Welle	árbol
02	2C.4204050	1	disco	disc	disque	Scheibe	disco
03	2C.237032	1	guarnizione	gasket	joint	Abdichtprofil	junta
04	2C.234113	1	guarnizione	gasket	joint	Abdichtprofil	junta
05	2C.234336	8	disco frizione	clutch disc	disque d'embrayage	Kupplungsscheibe	disco embrague
06	2C.234109	8	disco frizione	clutch disc	disque d'embrayage	Kupplungsscheibe	disco embrague
07	2C.236847	1	disco frizione	clutch disc	disque d'embrayage	Kupplungsscheibe	disco embrague
08	2C.234111	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
09	2C.235960	1	molla	spring	ressort	Federelement	muelle
10	2C.235959	1	distanziale	spacer	entretoise	Hülse	separador
11	2C.234350	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
12	2C.230885	2	cuscinetto	bearing	roulement	Lager	rodamiento
13	2C.234347	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
14	2C.223964	2	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
15	2C.234130	1	guarnizione	gasket	joint	Abdichtprofil	junta
16	2C.225605	1	cuscinetto	bearing	roulement	Lager	rodamiento
17	2C.234145	1	distanziale	spacer	entretoise	Hülse	separador
18	2C.234305	1	distanziale	spacer	entretoise	Hülse	separador
19	2C.239741	1	cuscinetto	bearing	roulement	Lager	rodamiento
20	2C.234230	1	rosetta	washer	rondelle	Scheibe	arandela
21	2C.234347	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
22	2C.247988	4	vite prigioniera	stud	goujon	Stiftschraube	espárrago
23	2C.4E7	4	rosetta	washer	rondelle	Scheibe	arandela
24	2C.62D7	4	dado	nut	écrou hexagonaux	Mutter	tuerca
25	2C.60K30012	1	guarnizione	gasket	joint	Abdichtprofil	junta
26	2C.60K40420	1	guarnizione	gasket	joint	Abdichtprofil	junta

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FANTUZZI REGGIANE

GRUPPO FRIZIONI RIDOTTE
LOW GEARS CLUTCH ASSEMBLY
GROUPE DE FRICTIONS RÉDUITS
UNTERGESETZTKUPPLUNG EINHEIT
GRUPO EMBRAGUES

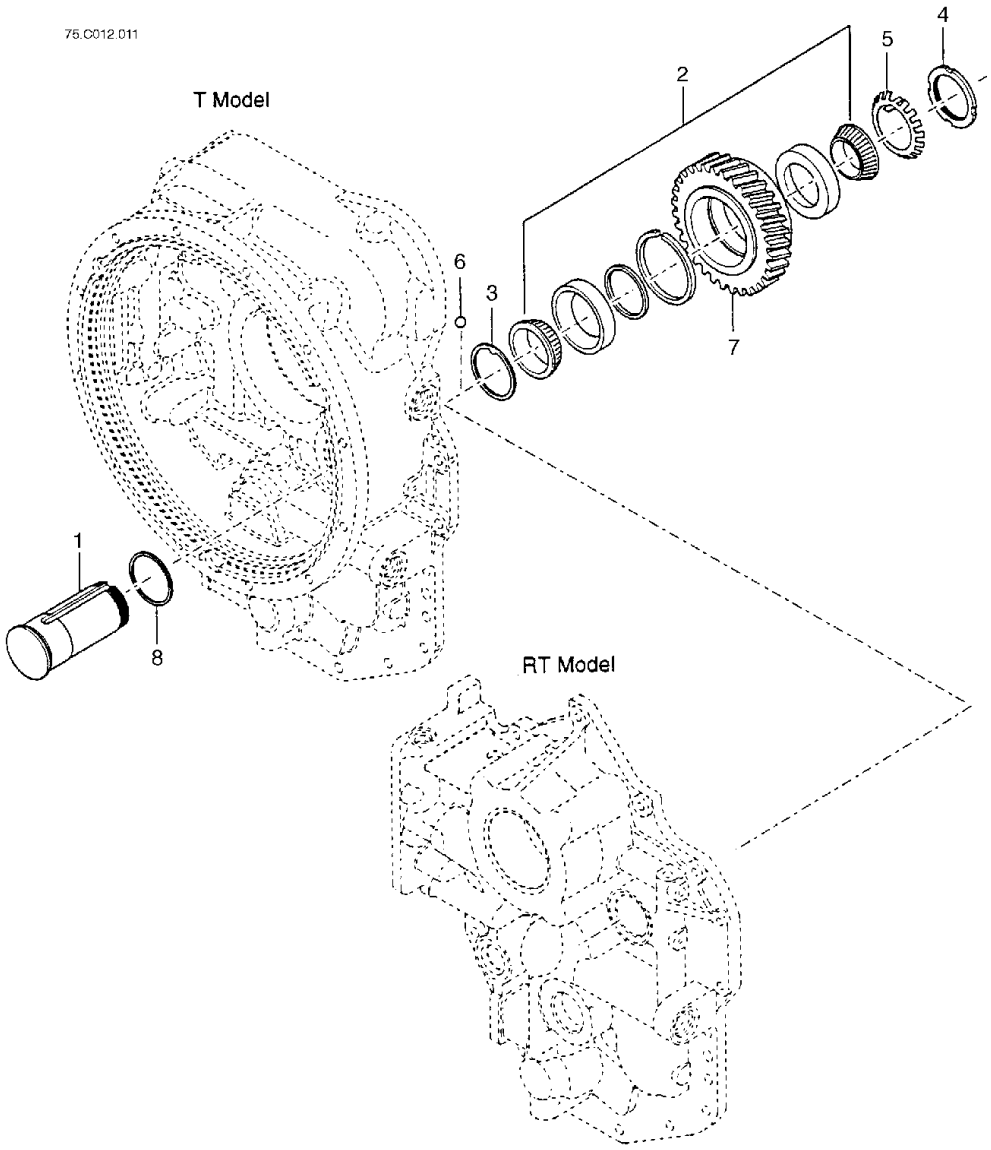
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FANTUZZI REGGIANE

Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2C.4205237	1	albero	shaft	arbre	Welle	árbol
02	2C.247664	1	cuscinetto	bearing	roulement	Lager	rodamiento
03	2C.4205134	1	rosetta	washer	rondelle	Scheibe	arandela
04	2C.24H9	1	ghiera	ring nut	écrou	Gewindering	tuerca
05	2C.26H9	1	rosetta	washer	rondelle	Scheibe	arandela
06	2C.10J10	1	sfera	ball	bille	Kugel	esfera
07	2C.4205179	1	ingranaggio	gear	engrenage	Zahnrad	engranaje
08	2C.76K223	1	guarnizione	gasket	joint	Abdichtprofil	junta

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FANTUZZI REGGIANE

GRUPPO INGRANAGGI RETROMARCIA
REVERSE MOTION GEAR ASSEMBLY
GROUPE D'ENGRENAGES POUR LE RENVERSEMENT DE MARCHE
RÜCKLAUFRAD EINHEIT
GRUPO ENGRENAJE MARCHA ATRÁS

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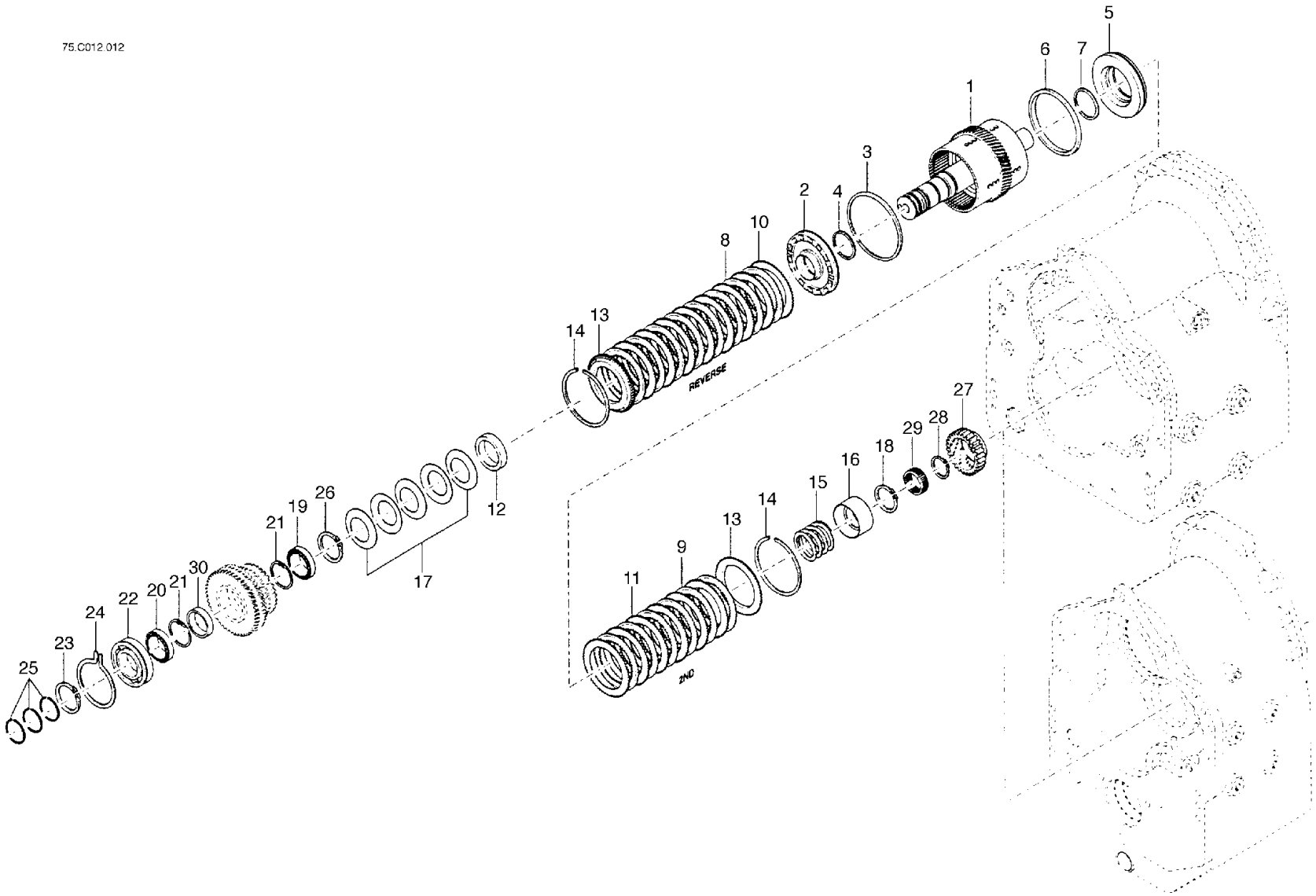
Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2C.4205731	1	ingranaggio	gear	engrenage	Zahnrad	engranaje
02	2C.4204049	1	disco	disc	disque	Scheibe	disco
03	2C.237032	1	guarnizione	gasket	joint	Abdichtprofil	junta
04	2C.234113	1	guarnizione	gasket	joint	Abdichtprofil	junta
05	2C.4204046	1	disco	disc	disque	Scheibe	disco
06	2C.237032	1	guarnizione	gasket	joint	Abdichtprofil	junta
07	2C.234113	1	guarnizione	gasket	joint	Abdichtprofil	junta
08	2C.237016	8	disco frizione	clutch disc	disque d'embrayage	Kupplungsscheibe	disco embrague
09	2C.237016	6	disco frizione	clutch disc	disque d'embrayage	Kupplungsscheibe	disco embrague
10	2C.234109	8	disco frizione	clutch disc	disque d'embrayage	Kupplungsscheibe	disco embrague
11	2C.234109	6	disco frizione	clutch disc	disque d'embrayage	Kupplungsscheibe	disco embrague
12	2C.237442	1	distanziale	spacer	entretoise	Hülse	separador
13	2C.236847	2	disco frizione	clutch disc	disque d'embrayage	Kupplungsscheibe	disco embrague
14	2C.234111	2	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
15	2C.235960	1	molla	spring	ressort	Federelement	muelle
16	2C.235959	1	distanziale	spacer	entretoise	Hülse	separador
17	2C.247656	1	molla	spring	ressort	Federelement	muelle
18	2C.234350	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
19	2C.230829	1	cuscinetto	bearing	roulement	Lager	rodamiento
20	2C.233389	1	cuscinetto	bearing	roulement	Lager	rodamiento
21	2C.234141	2	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
22	2C.223349	1	cuscinetto	bearing	roulement	Lager	rodamiento
23	2C.247949	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
24	2C.230889	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
25	2C.249779	3	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
26	2C.237669	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico

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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
27	2C.4203199	1	ingranaggio	gear	engrenage	Zahnrad	engranaje
28	2C.234347	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
29	2C.233065	1	cuscinetto	bearing	roulement	Lager	rodamiento
30	2C.4205141	1	distanziale	spacer	entretoise	Hülse	separador

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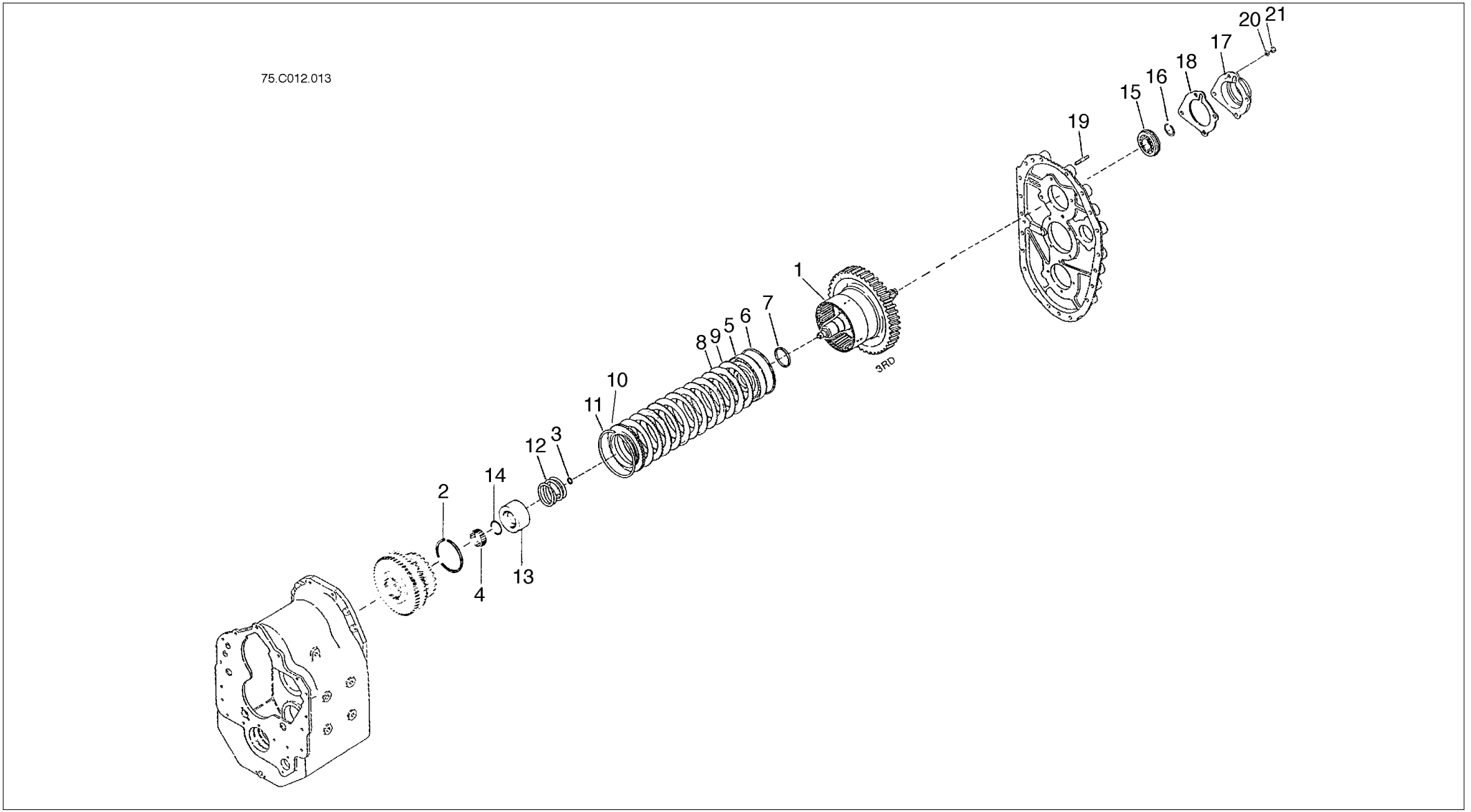
GRUPPO FRIZIONI 3ª VELOCITÀ
3 SPEED CLUTCH ASSEMBLY
GROUPE DES FRICTIONS DE 3 VITESSE
DRITTE GESCHWINDIGKEIT KUPPLUNGSGRUPPE
GRUPO EMBRAGUES 3ª VELOCIDAD

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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2C.244741	1	albero	shaft	arbre	Welle	árbol
02	2C.238034	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
03	2C.234130	1	guarnizione	gasket	joint	Abdichtprofil	junta
04	2C.234132	1	cuscinetto	bearing	roulement	Lager	rodamiento
05	2C.4204046	1	disco	disc	disque	Scheibe	disco
06	2C.237032	1	guarnizione	gasket	joint	Abdichtprofil	junta
07	2C.234113	1	guarnizione	gasket	joint	Abdichtprofil	junta
08	2C.237016	6	disco frizione	clutch disc	disque d'embrayage	Kupplungsscheibe	disco embrague
09	2C.234109	6	disco frizione	clutch disc	disque d'embrayage	Kupplungsscheibe	disco embrague
10	2C.236847	1	disco frizione	clutch disc	disque d'embrayage	Kupplungsscheibe	disco embrague
11	2C.234111	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
12	2C.235960	1	molla	spring	ressort	Federelement	muelle
13	2C.235959	1	distanziale	spacer	entretoise	Hülse	separador
14	2C.234350	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
15	2C.225602	1	cuscinetto	bearing	roulement	Lager	rodamiento
16	2C.247949	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
17	2C.240300	1	coperchio posteriore	rear cover	carter arrière	Frontdeckel Kompl.	tapa posterior
18	2C.240299	1	guarnizione	gasket	joint	Abdichtprofil	junta
19	2C.231728	4	vite prigioniera	stud	goujon	Stiftschraube	espárrago
20	2C.4E6	4	rosetta	washer	rondelle	Scheibe	arandela
21	2C.62D6	4	dado	nut	écrou hexagonaux	Mutter	tuerca

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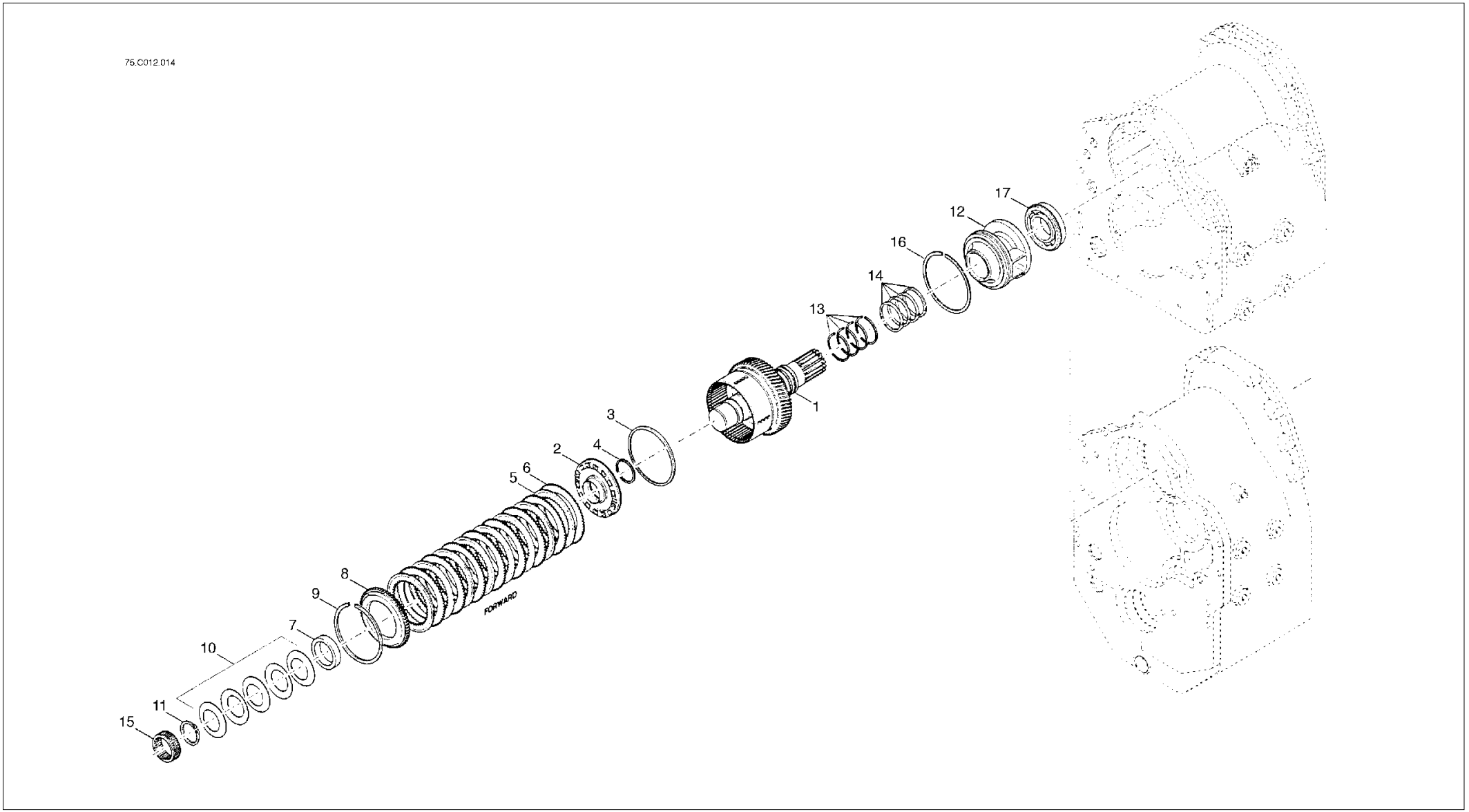
GRUPPO FRIZIONI 3ª VELOCITÀ
3 SPEED CLUTCH ASSEMBLY
GROUPE DES FRICTIONS DE 3 VITESSE
DRITTE GESCHWINDIGKEIT KUPPLUNGSGRUPPE
GRUPO EMBRAGUES 3ª VELOCIDAD

Tav. Tab. Taf.	75.C012.013	02/03
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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2C.4206311	1	ingranaggio	gear	engrenage	Zahnrad	engranaje
02	2C.4204049	1	disco	disc	disque	Scheibe	disco
03	2C.237032	1	guarnizione	gasket	joint	Abdichtprofil	junta
04	2C.234113	1	guarnizione	gasket	joint	Abdichtprofil	junta
05	2C.237016	8	disco frizione	clutch disc	disque d'embrayage	Kupplungsscheibe	disco embrague
06	2C.234109	8	disco frizione	clutch disc	disque d'embrayage	Kupplungsscheibe	disco embrague
07	2C.237442	1	distanziale	spacer	entretoise	Hülse	separador
08	2C.236847	1	disco frizione	clutch disc	disque d'embrayage	Kupplungsscheibe	disco embrague
09	2C.234111	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
10	2C.247656	1	molla	spring	ressort	Federelement	muelle
11	2C.237669	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
12	2C.241037	1	pistone	piston	piston	Kolben	pistón
13	2C.237378	4	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
14	2C.242651	4	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
15	2C.235763	1	cuscinetto	bearing	roulement	Lager	rodamiento
16	2C.235764	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
17	2C.241819	1	cuscinetto	bearing	roulement	Lager	rodamiento

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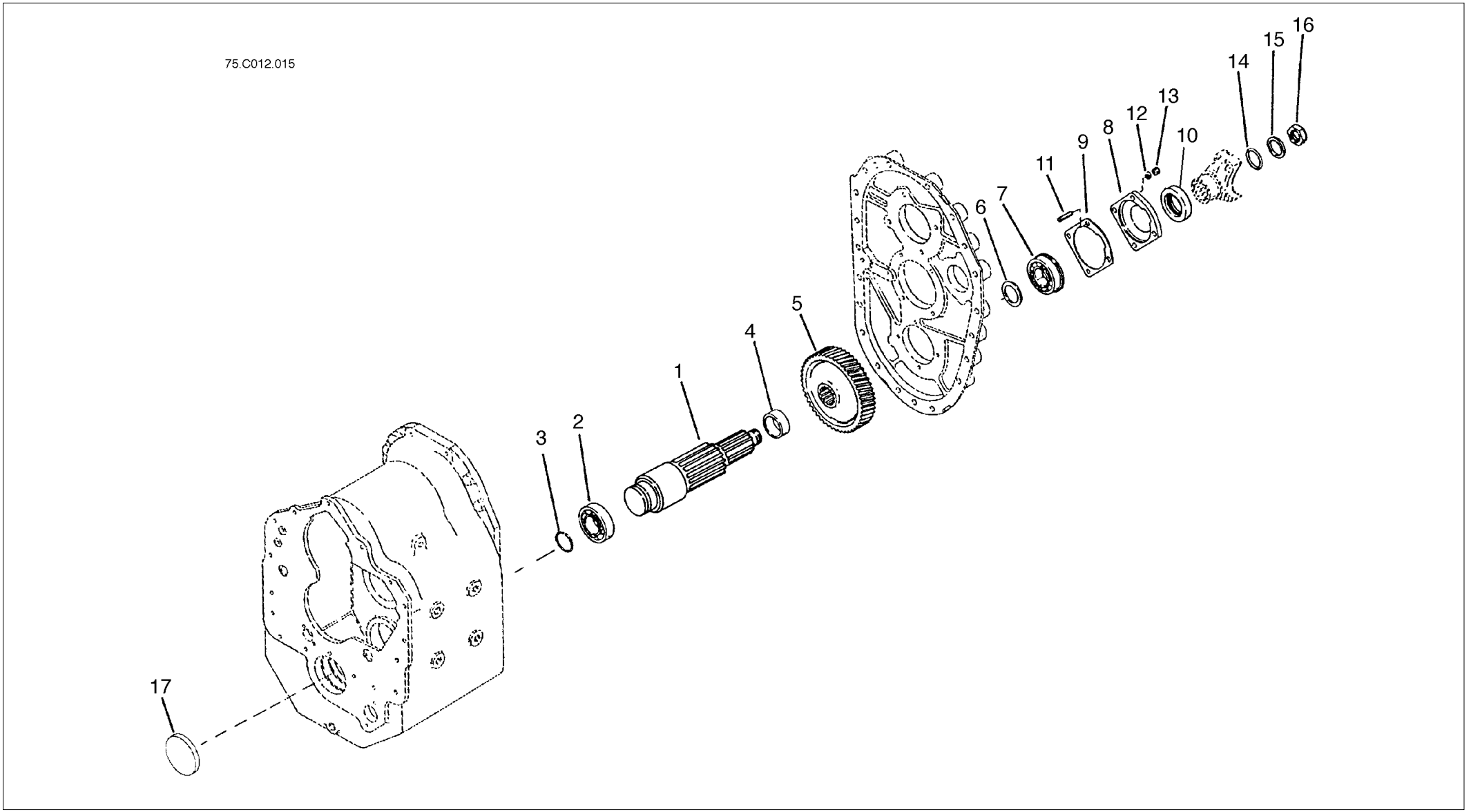
GRUPPO FRIZIONI MARCIA AVANTI
FORWARD RUNNING CLUTCH ASSEMBLY
GROUPE DE FRICTIONS MARCHE EN AVANT
KUPPLUNGSGRUPPE VORWÄRTSGANG
GRUPO EMBRAGUES MARCHA HACIA ADELANTE

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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2C.245464	1	albero	shaft	arbre	Welle	árbol
02	2C.225605	1	cuscinetto	bearing	roulement	Lager	rodamiento
03	2C.231776	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
04	2C.235910	1	distanziale	spacer	entretoise	Hülse	separador
05	2C.244742	1	ingranaggio	gear	engrenage	Zahnrad	engranaje
06	2C.237841	1	rosetta	washer	rondelle	Scheibe	arandela
07	2C.225602	1	cuscinetto	bearing	roulement	Lager	rodamiento
08	2C.242147	1	coperchio	cover	couvercle	Deckel	tapa
09	2C.247699	1	guarnizione	gasket	joint	Abdichtprofil	junta
10	2C.235751	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
11	2C.238903	4	vite	screw	vis	Schraube	tornillo
12	2C.4E9	4	rosetta	washer	rondelle	Scheibe	arandela
13	2C.62D9	4	dado	nut	écrou hexagonaux	Mutter	tuerca
14	2C.60K40112	1	guarnizione	gasket	joint	Abdichtprofil	junta
15	2C.102745	1	rosetta	washer	rondelle	Scheibe	arandela
16	2C.216058	1	dado	nut	écrou hexagonaux	Mutter	tuerca
17	2C.230862	1	tappo	cap	bouchonn	Verschlußdeckel	tapon

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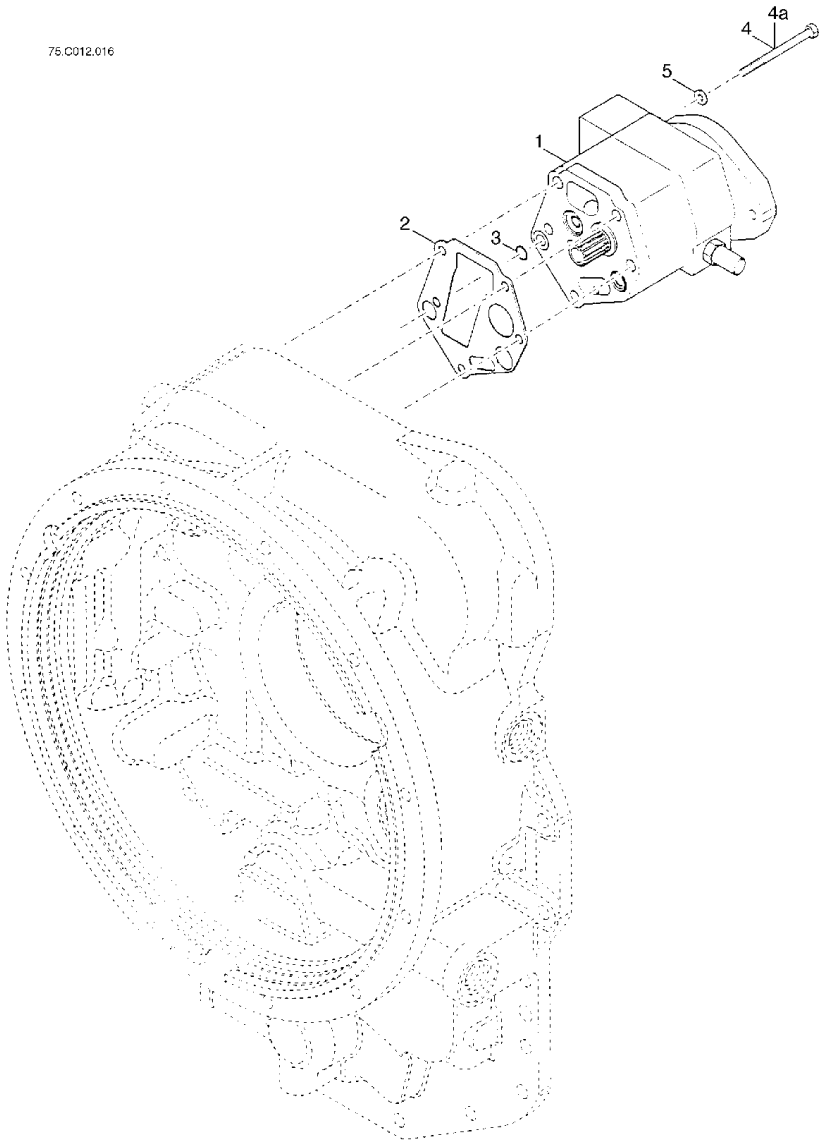
GRUPPO ALBERO DI USCITA
OUTLET SHAFT ASSEMBLY
GROUPE D'ARBRE EN SORTIE
AUSGANGWELLE GRUPPE
GRUPO ÁRBOL DE SALIDA

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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2C.249148	1	pompa	pump		Pumpe	bomba
02	2C.235283	1	guarnizione	gasket	joint	Abdichtprofil	junta
03	2C.60K30018	1	guarnizione	gasket	joint	Abdichtprofil	junta
04	2C.73G7104	1	vite	screw	vis	Schraube	tornillo
04a	2C.73G792	4	vite	screw	vis	Schraube	tornillo
05	2C.4E7	5	rosetta	washer	rondelle	Scheibe	arandela

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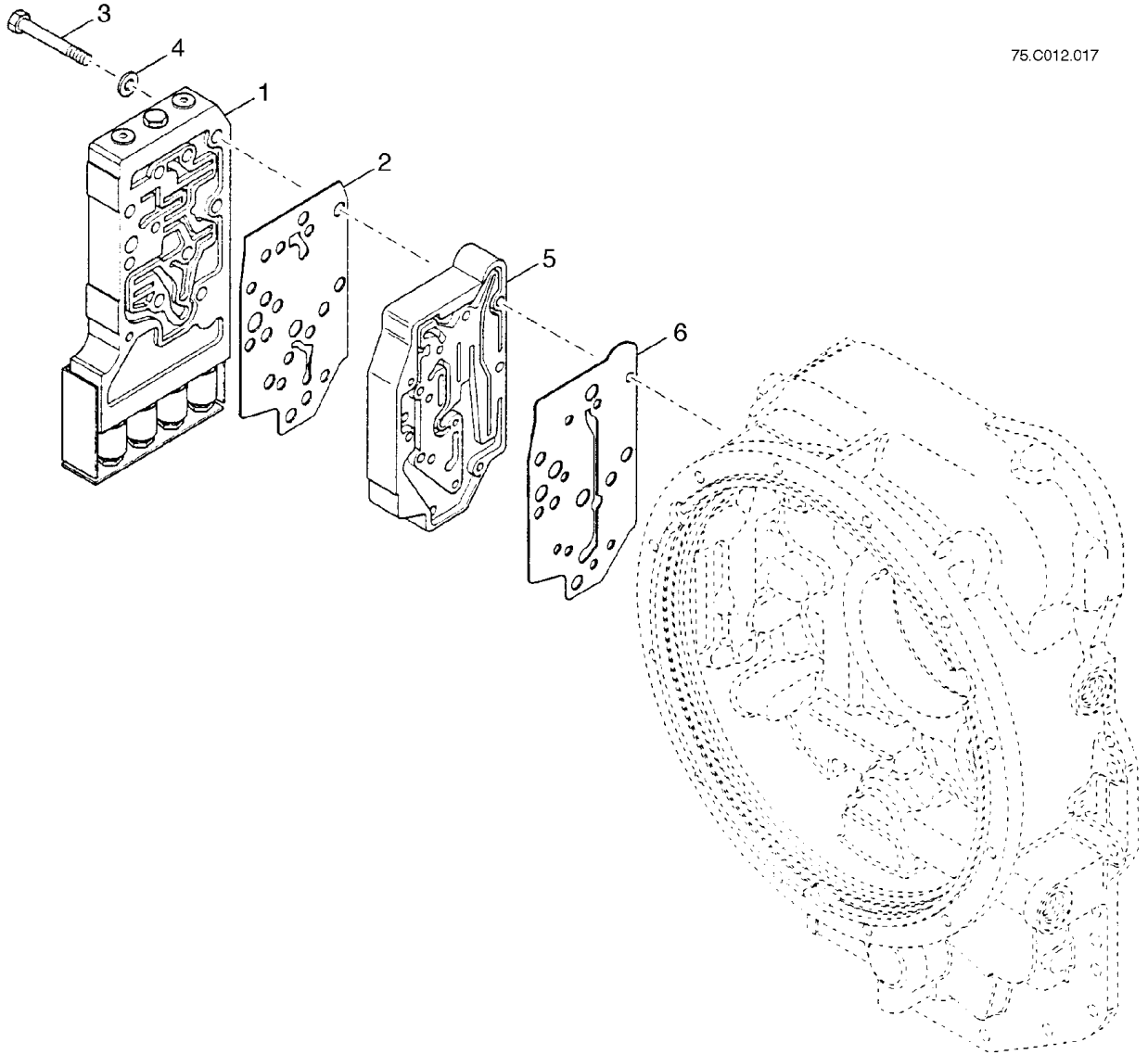
POMPA DI ALIMENTAZIONE CON REGOLATRICE DI PRESSIONE
FEEDING PUMP WITH PRESSURE REGULATOR
POMPE DE ALIMENTATION AVEC RÉGULATEUR DE LA PRESSION
ZUFUHRPUMPE MIT DRUCKREGLER
BOMBA DE ALIMENTACION CON REGULADOR DE PRESION

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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2C.4205623	1	carter	housing	carter	Gehäuse	cárter
02	2C.247614	1	guarnizione	gasket	joint	Abdichtprofil	junta
03	2C.4200456	9	vite	screw	vis	Schraube	tornillo
04	2C.4E6	9	rosetta	washer	rondelle	Scheibe	arandela
05	2C.238085	1	carter	housing	carter	Gehäuse	cárter
06	2C.247615	1	guarnizione	gasket	joint	Abdichtprofil	junta

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ELETTRODISTRIBUTORE
ELECTRODISTRIBUTOR
ÉLECTRODISTRIBUTEUR
ELEKTROVERTEILER
ELECTRODISTRIBUIDOR

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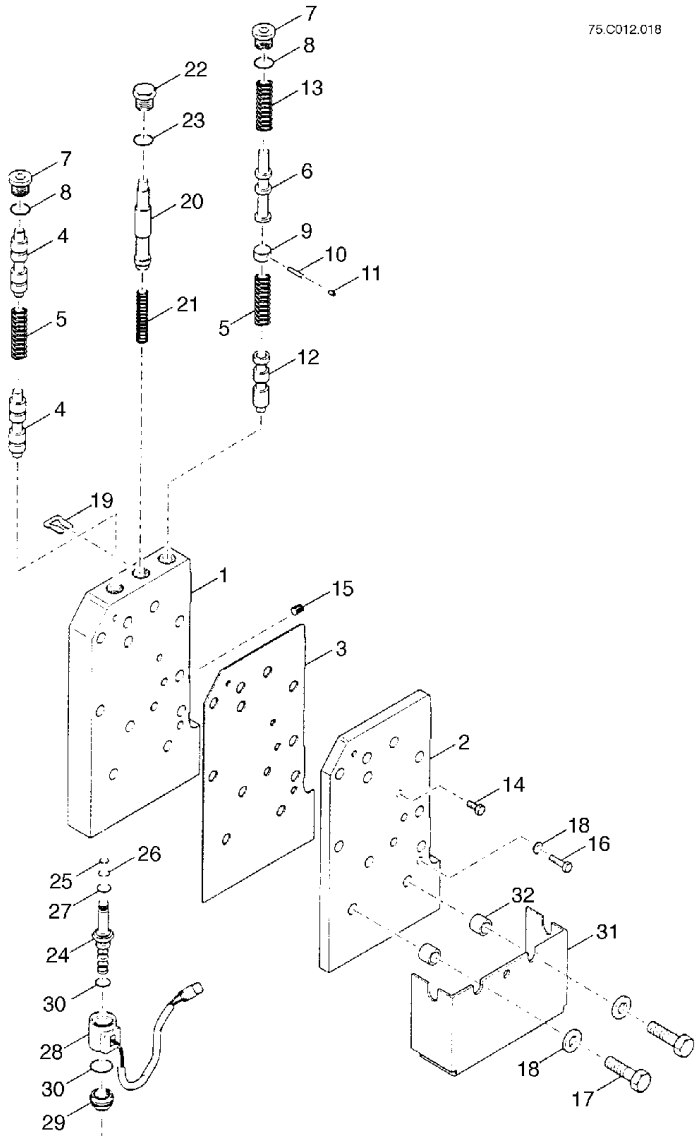
Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2C.246021	1	carter	housing	carter	Gehäuse	cárter
02	2C.244842	1	coperchio	cover	couvercle	Deckel	tapa
03	2C.247616	1	guarnizione	gasket	joint	Abdichtprofil	junta
04	2C.246015	2	cursore	valve spool	curseur	Schieber-heinh.	cursor
05	2C.246016	2	molla	spring	ressort	Federelement	muelle
06	2C.246017	1	cursore	valve spool	curseur	Schieber-heinh.	cursor
07	2C.47K6	2	tappo	cap	bouchonn	Verschlußdeckel	tapon
08	2C.91F6	2	guarnizione	gasket	joint	Abdichtprofil	junta
09	2C.241118	1	tappo	cap	bouchonn	Verschlußdeckel	tapon
10	2C.1JM5024	1	spina	pin	axe	Bolzen	eje
11	2C.4200274	1	tappo	cap	bouchonn	Verschlußdeckel	tapon
12	2C.246018	1	cursore	valve spool	curseur	Schieber-heinh.	cursor
13	2C.246016	1	molla	spring	ressort	Federelement	muelle
14	2C.40K2	8	tappo	cap	bouchonn	Verschlußdeckel	tapon
15	2C.239244	1	tappo	cap	bouchonn	Verschlußdeckel	tapon
16	2C.1C624	1	vite	screw	vis	Schraube	tornillo
17	2C.1C632	2	vite	screw	vis	Schraube	tornillo
18	2C.4E6	3	rosetta	washer	rondelle	Scheibe	arandela
19	2C.234170	1	elemento	element	plaque	Platte	elemento
20	2C.234185	1	valvola	valve	soupape	Ventil	válvula
21	2C.234181	1	molla	spring	ressort	Federelement	muelle
22	2C.24K7	1	tappo	cap	bouchonn	Verschlußdeckel	tapon
23	2C.91F7	1	guarnizione	gasket	joint	Abdichtprofil	junta
24	2C.246356	4	elemento	element	plaque	Platte	elemento
25	2C.76K012	4	guarnizione	gasket	joint	Abdichtprofil	junta
26	2C.76K013	4	guarnizione	gasket	joint	Abdichtprofil	junta

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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
27	2C.78K8	4	guarnizione	gasket	joint	Abdichtprofil	junta
28	2C.246291	4	solenoide	solenoid valve	solénoïde	Spule	solenoide
29	2C.249152	4	dado	nut	écrou hexagonaux	Mutter	tuerca
30	2C.76K20	8	guarnizione	gasket	joint	Abdichtprofil	junta
31	2C.4205611	1	coperchio	cover	couvercle	Deckel	tapa
32	2C.4204759	2	distanziale	spacer	entretoise	Hülse	separador
33	2C.4205623	1	carter	housing	carter	Gehäuse	cárter

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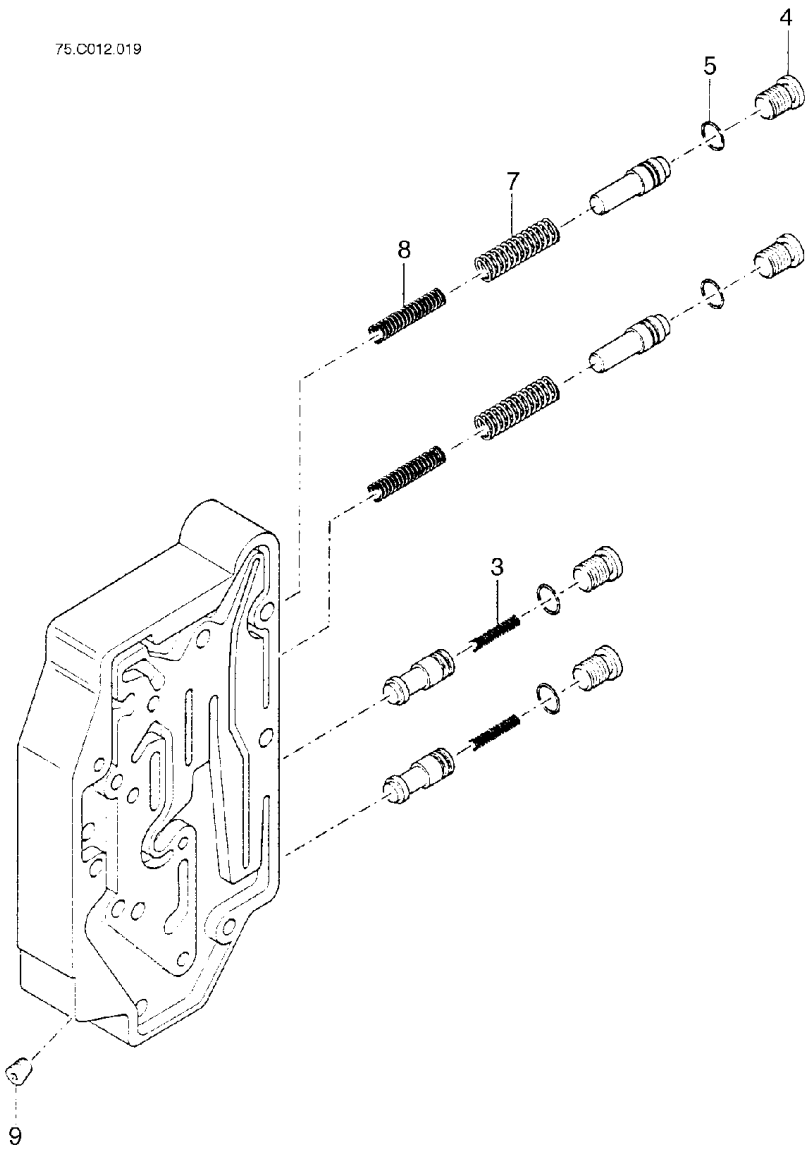
CORPO DISTRIBUTORE
DISTRIBUTOR HOUSING
CORPS DU DISTRIBUTEUR
VERTEILERKÖRPER
CUERPO DISTRIBUIDOR

Tav. Tab. Taf.	75.C012.018	02/03
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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
03	2C.241670	2	molla	spring	ressort	Federelement	muelle
04	2C.47K7	4	tappo	cap	bouchonn	Verschlußdeckel	tapon
05	2C.91F7	4	guarnizione	gasket	joint	Abdichtprofil	junta
07	2C.241077	2	molla	spring	ressort	Federelement	muelle
08	2C.241668	2	molla	spring	ressort	Federelement	muelle
09	2C.40K2	1	tappo	cap	bouchonn	Verschlußdeckel	tapon

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CORPO DISTRIBUTORE
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CORPS DU DISTRIBUTEUR
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CUERPO DISTRIBUIDOR

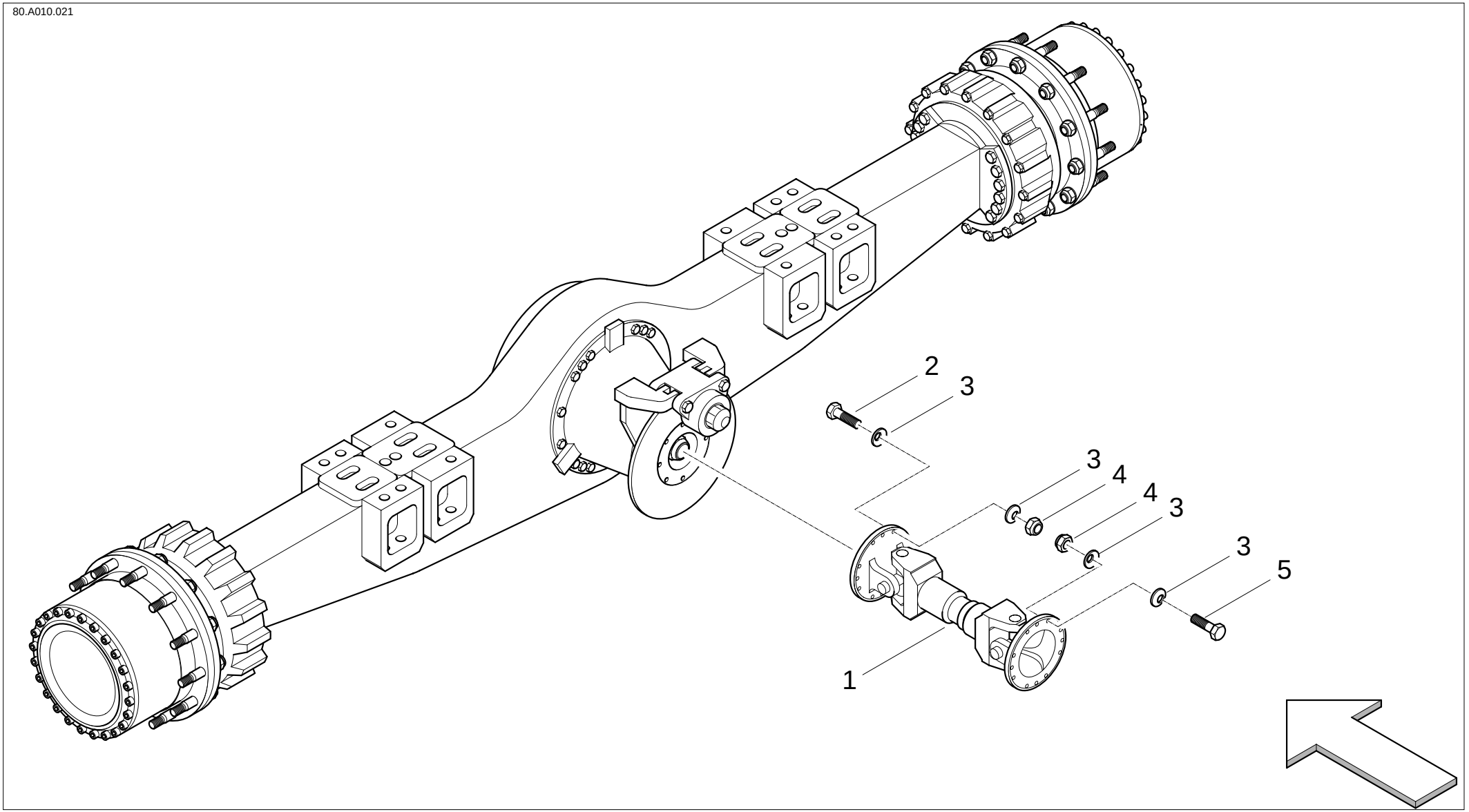
Tav. Tab. Taf.	75.C012.019	02/03
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Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
01	2292.010.0012	1	albero di trasmissione	transmission shaft	arbre de transmission	Kardanwelle	árbol de transmisión
02	2900.005.0012	8	vite	screw	vis	Schraube	tornillo
03	2900.130.0003	32	rondella di sicurezza	lock washer	rondelle de sûreté	Sicherungsscheibe	arandela
04	2900.080.0001	16	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
05	2900.005.0054	8	vite	screw	vis	Schraube	tornillo

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ALBERO CARDANICO
CARDAN SHAFT
ARBRE A CARDAN
GELENKWELLE
ARBOL CARDAN

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