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Agri Max - Agri Power - Agri Farmer - Agri Star

macchine edili ed agricole S.r.l.

dDIECI

OPERATION AND MAINTENANCE MANUAL



AXH1133/UK

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CE

ATTENTION: ALWAYS KEEP A COPY OF THIS MANUAL ON THE MACHINE AT THE OPERATOR'S DISPOSAL

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EVERY TELESCOPIC LIFT COMES WITH A COPY OF THE MANUAL HEREIN, WITH A COPY OF THE USER AND MAINTENANCE MANUAL OF THE MOTOR WRITTEN BY THE MANUFACTURER OF THE SAME AND WITH A COPY OF THE USE AND MAINTENANCE MANUAL OF EACH DEVICE OR PIECE OF EQUIPMENT WITH WHICH THIS MACHINE IS RIGGED-OUT.

THESE MANUALS ARE WRITTEN BY THE RESPECTIVE SUPPLIERS OR THEY ARE REPRODUCED IN FULL AND EXACTLY BY *DIECI* FOLLOWING SPECIFIC AUTHORISATION OF THE SUPPLIERS: THEY MAY BE FURTHER COMPLETED WITH OTHER SPECIFICATIONS WRITTEN BY *DIECI*.

Original title:
Operation and Maintenance Manual Telescopic Elevators Agri Max, Agri Power, Agri Farmer, Agri Star
Release Dieci 012006
MTKeR

IMPORTANT INFORMATION

The whole documentation supplied is integral and essential part of the product and shall be kept in an easily accessible place for all users, who shall read everything written in such documents very carefully before starting to use the equipment.

It is forbidden to use the machine or its accessories improperly or unreasonably, just like it is forbidden to make modifications that may alter the structure or operating performance.

***Dieci S.r.l.* is not liable for damages caused through the use of non-original spare parts**

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ATTENTION: A COPY OF THIS MANUAL SHALL BE ON THE MACHINE TO DISPOSITION OF THE OPERATOR

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Dear customer,

I would like to congratulate you and thank you for having chosen a DIECI vehicle.

This handbook has been prepared so that you may appreciate the qualities of this vehicle to the full.

We strongly recommend that you read this handbook in its entirety before using the vehicle for the first time.

It contains information, advice and important warnings for use which will help you to fully exploit the technical advantages of your DIECI vehicle.

You will discover its features and particular devices; you will also find essential information for the maintenance of your vehicle, for safety when driving it and to prolong the life of your DIECI vehicle.

The DIECI staff who will be at your assistance, wish you all the best, certain that this handbook will prove an invaluable aid to fully appreciating your new vehicle.

Our best regards.

Sales management

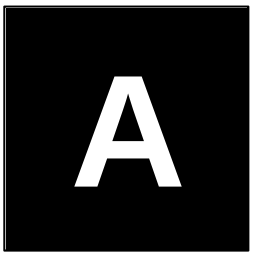
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INTRODUCTION
GUARANTEE
VEHICLE IDENTIFICATION



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- ATTENTION:

USE OF THE VEHICLE IS LIMITED TO THE TYPE OF CONTROLS AND ACCESSORIES CHOSEN BY THE CUSTOMER (optional)

DIECI COMMERCIALISES VARIOUS TYPES OF TELESCOPIC ELEVATORS WITH DIFFERENT CONTROLS AND ACCESSORIES.

ILEARN HOW TO USE YOUR VEHICLE CORRECTLY AND SAFELY, TOGETHER WITH THE CONTROLS BEFORE STARTING TO USE IT BY READING THE SECTION REGARDING THE TYPE OF CONTROLS OR ATTACHMENT YOU HAVE PURCHASED

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INTRODUCTION

The purpose of this manual:
is to provide the owner and operator with instructions for efficient and safe use and maintenance of the telescopic elevator.

Following these instructions carefully, will allow you to obtain full efficiency and a long working life from your vehicle, and will help to make your work considerably easier.

Furthermore this manual is supplied to you directly by the dealer upon delivery of the vehicle, in order to make sure that you understand all the instructions correctly. However, should you have trouble understanding any part of this manual, do not hesitate to contact your nearest dealer for clarification, as it is of utmost importance that the operation and maintenance guide lines be fully understood and carefully observed. Routine maintenance should be carried out regularly, keeping a record of the vehicle's working hours.

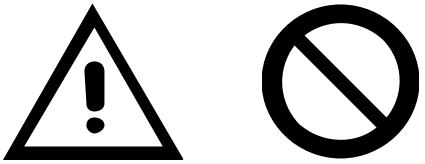
When spare parts are required, it is essential that only genuine spare parts be used. These can be supplied by your local dealer who can also provide advice and instructions for installing and using them. The use of non-genuine spare parts may cause damage to other parts of the vehicle. We, therefore, advise our customers to purchase any spare parts required only from an authorised agent or dealer.

Should the vehicle be destined for use in particularly severe conditions, (for example : very dusty places or sites, clay or very muddy ground), we advise consulting your nearest dealer for specific instructions. Failure to observe these instructions may result in the annulment of the vehicle's guarantee.

NOTE:
This manual has been published for worldwide distribution and the availability of certain equipment referred to from time to time as being essential or available on request may vary according to the geographical territory in which the vehicle is being used. You can obtain all necessary details about the equipment available in your area from your nearest distributor or dealer.

NOTE:
Due to manufacturing demands, machines from the standard production range may have certain details which differ from those mentioned in this manual. The company reserves the right to make such modifications without giving notice.

WARNING:
in some of the illustrations, panels or guards have been removed in order to obtain a clearer illustration. Never use the vehicle without these panels or guards.



ATTENTION and WARNING

These words and symbols are used throughout this manual and on stickers to indicate operations that may endanger parts of the vehicle (WARNING) or the safety of the operator (ATTENTION). Always read the instructions very carefully when you find:

ATTENTION or **WARNING** alongside this symbol 

NOTE:
the left and right sides of the vehicle as referred to in this manual are to be considered looking at the truck from the back towards the front, or from the position of the operator in the driver's seat.

 - **ATTENTION**: It is strictly prohibited to use, service or apply anything to the machine in your possession that is not explicitly described in this use and maintenance manual.



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GUARANTEE

GUARANTEE: DURATION, VALIDITY AND TAKING EFFECT

Guarantee: duration

The firm DIECI s.r.l. (hereinafter referred to as DIECI), guarantees its products for 12 months from delivery date to the end customer, but not exceeding 18 months from the date the vehicle left the manufacturer's plant (in sales to distributors or dealers).

Guarantee: validity

The guarantee is valid from the date the machine is forwarded from the factory (sale to distributors or dealers). When delivery is handled by the distributor or dealer, DIECI reserves the right to verify that the warranty starting date corresponds to the shipping or delivery date on the product transport document and/or the invoice date and may ask to see the original copies of these documents.

Guarantee: taking effect

The warranty is activated automatically from the date the machine is forwarded from the factory (sale to distributors or dealers).

GUARANTEE: EXTENT

Guarantee in countries with assistance centres

- The guarantee covers the replacement or repair of faults which have been proven defective in terms of material, manufacture or assembly.
- DIECI reserves the sole right to judge whether to repair or to replace defective parts.
- DIECI shall respond to claims using the means and methods it deems most appropriate.

DIECI shall be responsible for:
- Materials used.
- Labour.
- Travelling and accommodation expenses.

The customer shall be responsible for:
- Packing and shipping costs for spare parts
- Any other possible expenses not listed under those for which DIECI is liable.

Guarantee in countries with no assistance centres

- This consists exclusively of free supply, ex works from DIECI's plant, of replacements for parts proved to be of faulty material, faulty manufacture and/or assembly.

Examining replaced faulty parts

- DIECI, before acknowledging the guarantee, may ask for any faulty parts replaced during repairs, to be returned with shipping costs to their charge.

Additional guarantee for repairs and replacement parts

- Any repairs done under or out of the guarantee, and spare parts replaced during repairs, are guaranteed for 3 months from the date of repair or installation, if the original guarantee has expired.

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GUARANTEE:
REQUEST FOR REPAIR UNDER GUARANTEE

Guarantee: reporting a fault or faulty part

- The report must be made by the end user, or dealer, or distributor or by an authorised repair shop and must be sent directly to DIECI's customer assistance office, within no more than 8 days of the occurrence of the malfunction. The report must include a clear description of the malfunction and precise references to the vehicle (type, model and serial number). This information can be found on the vehicle in the positions indicated in the OPERATION AND MAINTENANCE MANUAL.

Obligation to immobilise the vehicle

- If there is a risk that the malfunction may jeopardise safety and accident prevention or may cause further damage, it is obligatory not to use the vehicle until it has been repaired and tested.

Guarantee: excluded from the guarantee

The following conditions and parts are excluded from the guarantee:

- Components subject to wear or deterioration due to prolonged use: clutch, belts, brake pads, shoes, rollers, oils and fluids, filters, etc.
- Electrical circuits and components.
- Damage caused by: climatic factors, natural disasters, acts of vandalism, etc.
- Any other malfunction not due to an ascertained original fault or which does not come under DIECI's liability.

The following parts are also excluded from this guarantee and are covered by the guarantee of the relevant manufacturers:

- Diesel engines
- Axles and reduction gears
- Pumps and hydraulic engines
- Tyres.

DIECI shall handle the application of the guarantee for these parts.

Each time the machine is modified, it must verified again to check its compliance with Machine Directive EC/98/37.

In case of dispute, the Court of Reggio Emilia - ITALY, shall be recognised as the ultimate authority.

CAUSES FOR:
NON- EFFECT, NON-ACKNOWLEDGEMENT, TERMINATION OF THE GUARANTEE

Guarantee: non-acknowledgement

The guarantee is not acknowledged:

- If the malfunction is not reported following the prescribed method and within the established time limit.
- If DIECI's request for the return of any faulty parts replaced during repairs is not complied with.
- If the obligation to immobilise the vehicle is not complied with, the guarantee is not acknowledged for any damage caused by noncompliance.

Guarantee: termination

The guarantee is terminated:

- If the buyer does not fulfil payment obligations according to contract.
- If damage has been caused by carelessness, negligence, or by use that does not comply with the specifications given in the operation and maintenance handbook (*****incorrect manoeuvres, overloading, use of incorrect fuel, poor maintenance, failure to use warning instruments etc.)
- If the malfunction has been caused by applications, attachments, modifications or repair work not authorised by DIECI or carried out using faulty spare parts. (For this reason, we recommend always using genuine spare parts).

***** For "recommended periodic maintenance" refer to the OPERATION AND MAINTENANCE MANUAL.

Final terms

- In case of non-effect, non-acknowledgement and termination of the guarantee, the buyer shall in no circumstance be granted annulment of the contract, payment of damages, or an extension of the guarantee.

- Any conditions subject to guarantee other than those listed above must be agreed upon in writing and signed by both parties.

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IDENTIFYING YOUR VEHICLE

VEHICLE MODELS

- The manufacturer offers a range of vehicles which are similar, but with different technical specifications and performances.
- When consulting any table or illustration given in this manual or on the vehicle itself, always refer to the model code number for your vehicle.

TELESCOPIC ELEVATORS Agri - (Max - Power - Farmer - Star)

LIABILITY

- The vehicles are manufactured in compliance with EEC regulations in force when the vehicle was made available for purchase.
- Failure to observe the user and safety regulations or the use of the machine in less than perfect working condition may cause an accident punishable by law.
- The manufacturer is not liable for any injury to persons, or damage to things or animals caused by improper use of this vehicle or by any unauthorised structural modification, application or transformation.
- The manufacturer reserves the right to carry out any possible modifications to the vehicle for technical or commercial reasons without notice.

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IDENTIFYING THE TELESCOPIC ELEVATOR

The vehicle can be identified by the serial number punch marked on the front part of the chassis and inside the cab.In addition to this, the engine has its own serial number punch marked on the engine block itself.

To ensure prompt and efficient service when ordering spare parts or when requesting information or technical explanations, always give the engine and chassis serial number.

Chassis serial number .....

Engine serial number .....

Cab serial number .....

Type of vehicle .....

Owner/ Operator .....

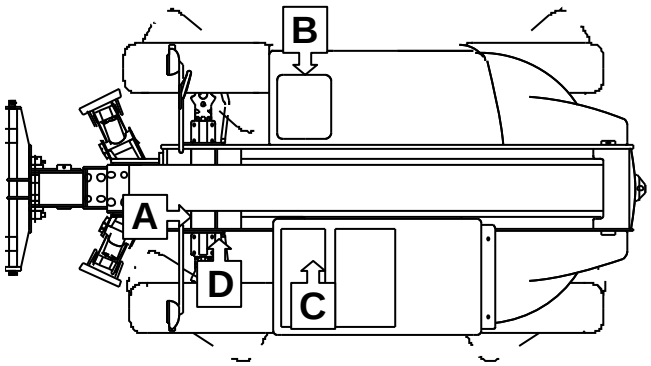
Dealer's or agent's address

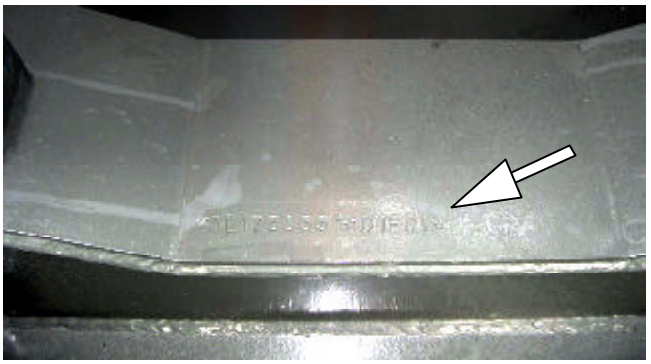
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Delivery date .....

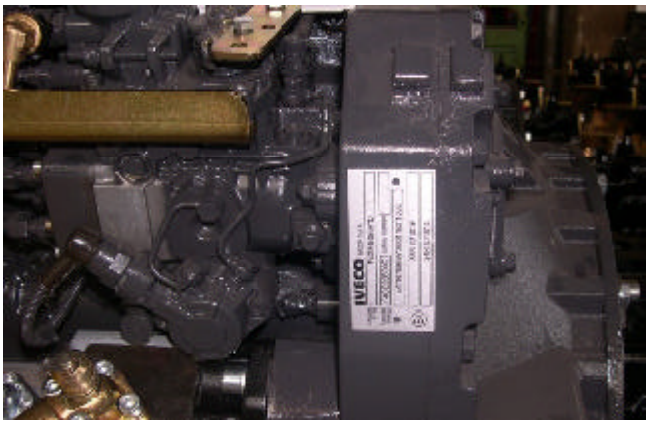
Guarantee expiry date .....

NOTE:
The elevators known commercially as Agri Max, Agri Power, Agri Farmer, Agri Star have been punch marked (type approval code) (see the first 3 numbers punch marked on the chassis).





A - Chassis type and serial number



B - Engine serial number



C - Essential data



D - Axle serial number

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IDENTIFYING VEHICLE PARTS

VEHICLE: LOCATION OF MAIN PARTS - LIST OF PART NAMES

1) TELESCOPIC ARM (BOOM)

2) BATTERY

3) BATTERY CUT OUT DEVICE

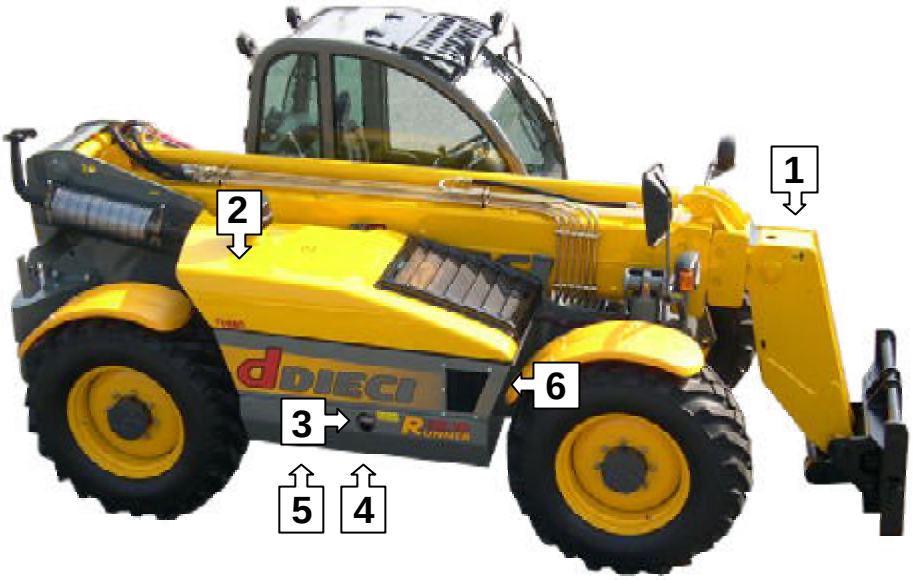
4) HYDROSTATIC ENGINE PUMP

5) DIESEL ENGINE

6) RADIATOR

7) FRONT STABILIZING FOOT

8) ATTACHMENT HOLDING PLATE



RIGHT SIDE

11) CAB

12) FUSE BOX

13) HYDRAULIC OIL FILTER

14) LEVER (JOYSYTICK) FOR ARM MOVEMENTS

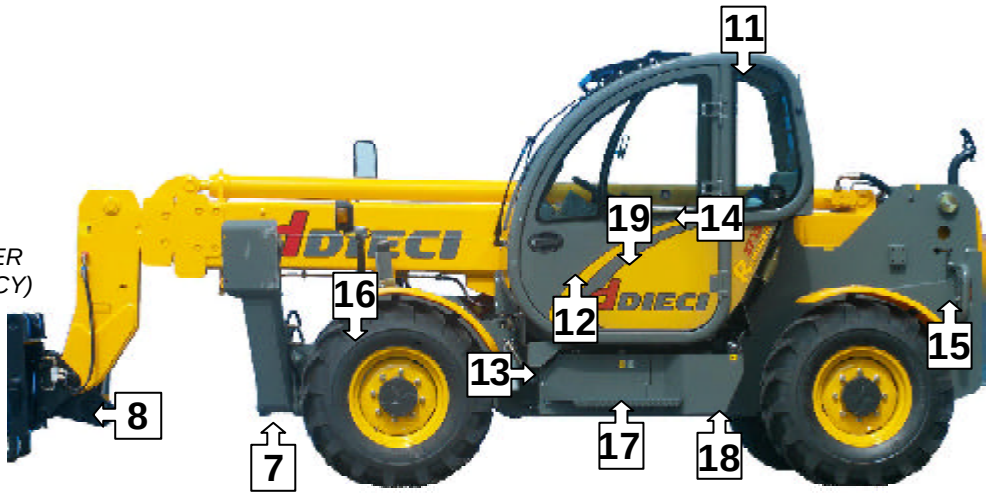
15) PUMP TO MANUALLY LOWER BOOM (BASKET EMERGENCY)

16) CHASSIS PUNCHING

17) OIL TANK

18) FUEL TANK

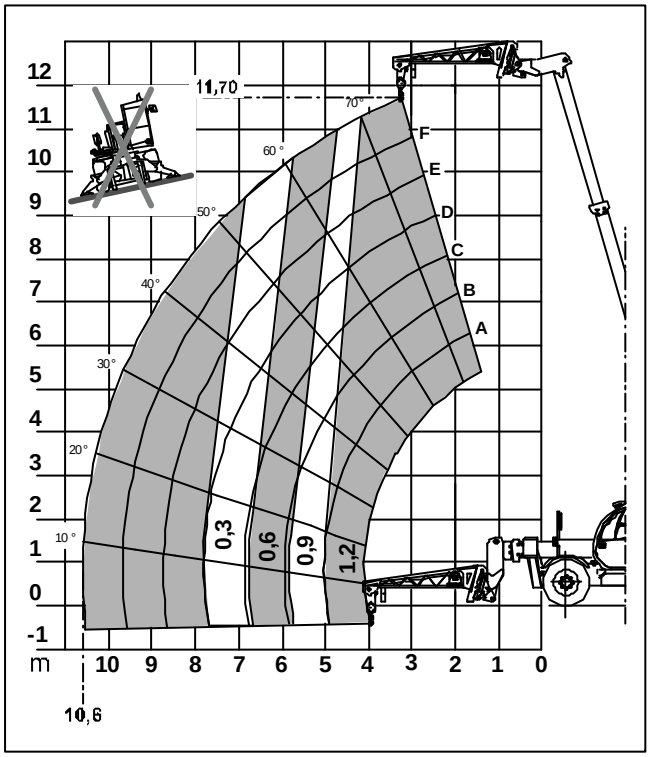
19) "CAP" FOR HYDRAULIC OIL TANK(INSIDE CAB)

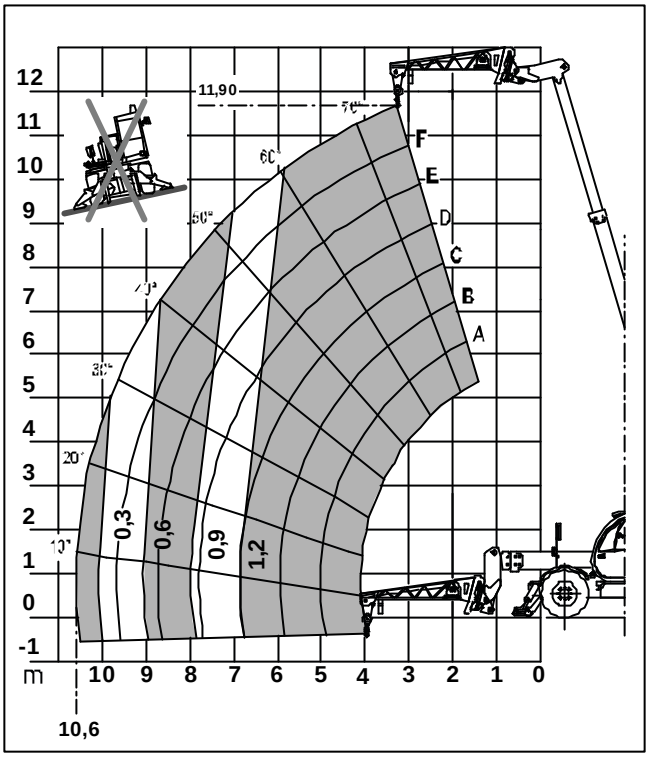


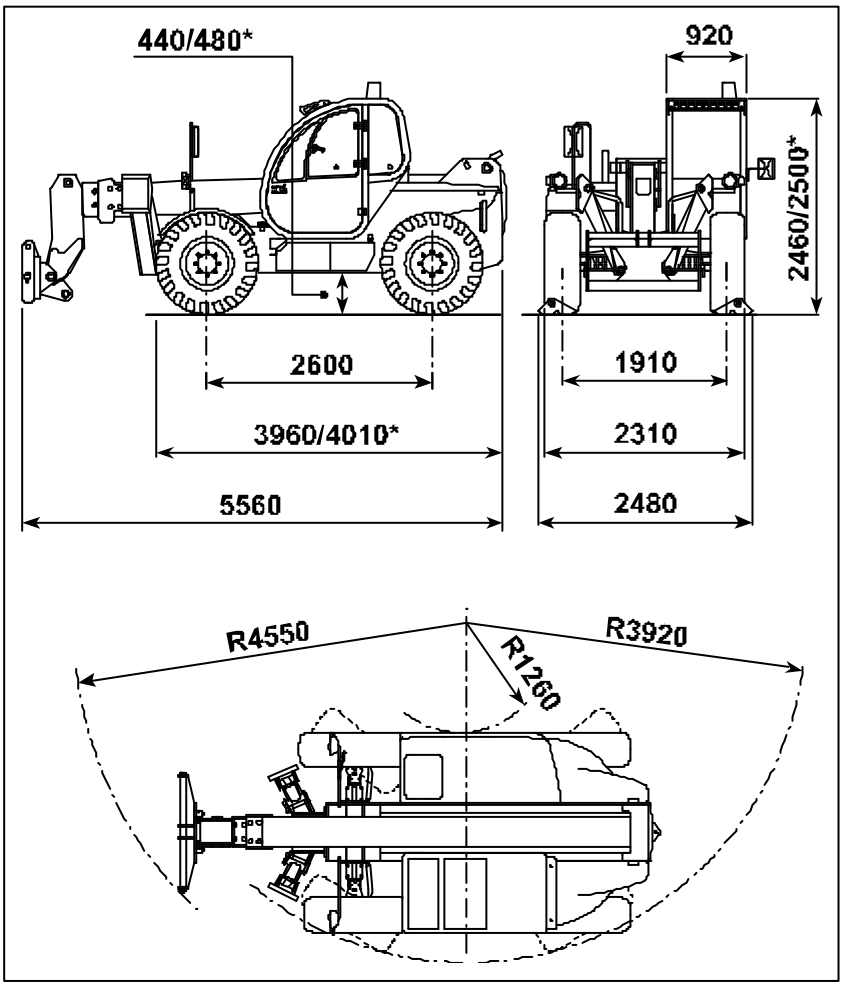
LEFT SIDE

NOTE:
The position of some parts may vary on some specific models.

TO KNOW YOUR VEHICLE'S TECHNICAL DATA CONSULT THE:< "TECHNICAL SHEETS" CHAPTER "H">



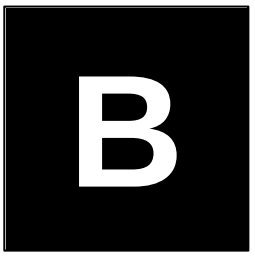




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SAFETY RULES



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- ATTENTION:

RECOGNISING THE SAFETY RULES

This is the **WARNING SYMBOL FOR A POTENTIAL HAZARD**

Wherever this symbol appears " " on the vehicle or in this manual, you must take due care against injury hazard. Take all recommended precautions and observe regulations for use and maintenance in conditions of safety.

UNDERSTANDING WARNING NOTICES

Certain words are used in this manual as warning and safety notices and indicate the risk level, these are

- DANGER

- ATTENTION

- WARNING

The above words are always accompanied by the potential hazard warning symbol.

ATTENTION - WARNING- DANGER: indicate a situation of imminent danger which, if not averted, may cause damage.

IMPORTANT: indicates a situation of imminent danger which, if not averted, may cause damage to the vehicle.

NOTE: indicates additional explanations for pieces of information.

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ECOLOGY

IMPORTANT ECOLOGICAL CONSIDERATIONS

A few helpful recommendations are listed here below.

- Find out about current legislation in force in your country.
- Ask all suppliers of lubricating oils, fuels, antifreeze products, detergents, etc. for information on the effects of these products on people and on the environment and concerning the regulations to be observed when using, stocking and disposing of them.

A FEW SUGGESTIONS

1. Do not refill the tanks using unsuitable jerrycans or pressurised combustible fuelling systems as they may cause leaks and loss of significant amounts of liquid.
2. In general, make sure your skin does not come into contact with combustible liquids, lubricating oils, acids, solvents, etc. The majority of these types of products contain substances which are particularly harmful to our health.
3. Modern lubricating oils contain additives. Do not burn contaminated combustible oils and/or oils used for conventional heating systems.
4. Take care not to spill used engine cooling fluids, engine and transmission lubricating oils, hydraulic oil, brake oil etc. while pouring or draining them. Store them safely until it is time to dispose of them in compliance with current legislation or with local facilities.
5. Modern antifreeze liquids and their solutions, such as, for example, antifreeze and other additives, should be replaced every two years. Make sure such liquids do not soak into the soil, they should be collected and disposed of in the appropriate fashion.
6. Do not intervene directly on the air conditioning systems (optional), by opening them. These systems contain gas which should not be released into the atmosphere. Contact your dealer or an expert who has the necessary special equipment at their disposal and who would, in any case, have to refill the system.
7. Immediately repair any leak or fault in the cooling or engine hydraulic systems.
8. Do not increase the pressure in a pressurised system, this may cause the components to explode.

OBLIGATIONS

Waste material should not be scattered in the environment but should be disposed of in the appropriate fashion. Used lubricants, batteries, rags dirty with grease, brake pads etc. should be handed over to specialised companies authorised to dispose of polluting waste.

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ALWAYS WORK IN CONDITIONS OF SAFETY



This warning symbol means there are important messages concerning your safety.

Read the safety regulations given and take all the recommended precautions in order to avoid potential risks and safeguard your own health and safety.

In this handbook you will finds this symbol combined with the following key words:

ATTENTION
This is used for warnings of potential damage to the vehicle which could also involve the operator's safety.

DANGER
This is used for warnings of potential danger to the operator's safety or to the safety of other people directly involved.

Failure to follow any instructions preceded by one of the key words mentioned above **(ATTENTION and DANGER)** may cause serious injury or even death to the people involved.

In addition, this handbook also contains certain instructions in italics, preceded by the words NOTE and WARNING, which mean the follow for the protection of the vehicle:

NOTE
This emphasizes to the operator the correct technique or procedure to be followed.

WARNING
This informs the operator of the risk of damage to the vehicle if the correct procedure is not respected.

IMPORTANT WARNINGS

This vehicle has been designed and constructed only to be used as a self-propelled vehicle, with the operator in the driving seat, with tyres, designed for use on asphalt or natural surfaces and on rough ground.

The vehicle consists of a main support structure suitable to support the extendible arm. Forks or other attachments approved by Dieci can be mounted onto the arm head. In normal use, the vehicle can lift, and place loads thanks to the extension, withdrawal, raising and lowering of the arm.

If this vehicle is put to any other use, it will be considered in contrast to the use for which it was intended by DIECI who, consequently, cannot be considered responsible for any damage to things or to the vehicle itself or for any injury to persons which might arise from such use.

The instructions for use, maintenance and repair as given in this handbook must absolutely be followed in order to consider that the vehicle has been put to the use for which it was intended by the manufacturer.

This machine must be used, assisted or repaired only by persons preliminarily instructed on the vehicle and on the safety regulations, in addition to being authorised to use the vehicle itself.

The user shall observe the general safety and accident prevention instructions at all times, especially in relation to Traffic Regulations if the machine is driven on main roads.

Any arbitrary modification to the vehicle will relieve DIECI *from all responsibility for any consequent damage or injury which might derive from such modification.*

WORK IN CONDITIONS OF SAFETY

GENERAL WARNINGS

THE USE OF THE MACHINE OTHER THAN DESCRIBED IN THIS MANUAL IS STRICTRLY FORBIDDEN.

All the functions, procedures relevant to the operation and the preparation of the machine's attachment that are not described in this manual are strictly forbidden.

All the procedures and maintenance operations not described in this manual are strictly forbidden. All the operations must only be carried out in authorised repair centres by qualified personnel.

- WARNING!:

DO NOT USE THE MACHINE IF YOU ARE UNDER THE EFFECT OF ALCOHOL, DRUGS OR EVEN IF YOU HAVE TAKEN CERTAIN MEDICINES THAT MAY MAKE YOU DROWSY OR THAT MAY ALTER YOUR PROMPT REACTIONS.

- Everything possible has been done during the design and construction of this vehicle to make your job as safe as possible. Due caution, however, is indispensable and there is no better rule to prevent accidents.

- Read this handbook carefully before starting up your vehicle, before using it, before carrying out maintenance work, before refuelling or before carrying out any other jobs on your vehicle

- The time dedicated to reading this handbook will make you sufficiently familiar with your vehicle and will help you save time and effort later. In addition, reading this handbook, will help you to prevent certain accidents from happening.

- Read all the safety stickers to be found on the vehicle and observe all regulations printed on these stickers before starting up, running, refuelling or carrying out maintenance work. Promptly replace any stickers which might be damaged, lost or illegible. Clean them if covered in mud, cement or other deposits.

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FOLLOWING SAFETY REGULATIONS

▲ Carefully observe and follow all safety warnings on the vehicle and read all safety warnings in this manual.

▲ Safety warnings must be installed, kept up and replaced whenever necessary.

▲ If a safety warning or this manual should be damaged or missing, a replacement should be ordered from your DIECI dealer, just as you would order a spare part (make sure you give the model and serial number of your vehicle when placing the order).

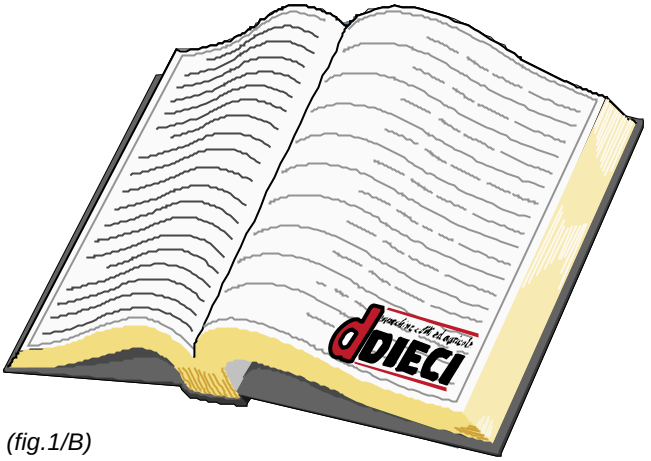
▲ Learn to use your machine and its controls correctly and safely.

▲ Only trained, qualified and authorised personnel should be allowed to use this vehicle.

▲ Make sure the vehicle is kept in suitable working condition.

- Unauthorised modifications may endanger the operation and/or safety of your vehicle and may shorten its life.

▲ The safety warnings listed in this chapter SAFETY REGULATIONS are given to illustrate basic safety procedures for your vehicle. If you are in any doubt, contact the person directly responsible for the vehicle before going ahead and using the vehicle or carrying out any maintenance work.

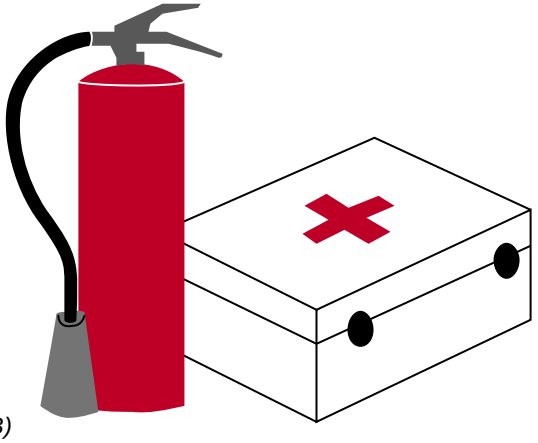


(fig.1/B)

PREPARING FOR EMERGENCIES

▲ You must be prepared in case there should be a fire or an accident.

- Keep your first aid kit and fire extinguisher close to hand.
- Carefully read the instructions stuck on the extinguisher itself to be able to use it properly.
- Decide on your drill and priorities to be applied in case of fire or an accident
- Keep all emergency telephone numbers for doctors, the ambulance, the hospital and the fire brigade clearly visible and near the telephone.



(fig.2/B)

PROTECTIVE CLOTHING

▲ Wear close fitting garments and accident prevention equipment suitable for work.

In certain cases, when working in particularly difficult conditions, it is necessary to wear special clothing or equipment.

The following must be available:

- Protective helmet;
- Protective shoes;
- Protective goggles or protective face mask;
- Protective gloves;
- Protective headwear against noise;
- Reflecting clothing;
- Waterproof clothing;
- Breathing apparatus or filtering mask;

Make sure all clothing and protective equipment is worn correctly while working.

- Do not wear loose clothing, chains, belts or other accessories which might get caught up in the control lever or in other parts of the vehicle.

▲ To use the vehicle safely, the driver must give it his/her full attention. Headphones to listen to the radio or to music, should not be worn while using the vehicle.



(fig.3/B)

PROTECTING YOURSELF AGAINST NOISE

▲ Prolonged exposure to loud noise can damage your hearing or may cause loss of hearing.

- Always protect your hearing by wearing antinoise headphones or earplugs to protect yourself from excessive and tiresome noises.



(fig.4/B)

INSPECTING THE MACHINE

▲ Inspect your vehicle carefully every day or every shift, examining it carefully before resuming work with it.

- When inspecting the outside of the vehicle, make sure you follow all the instructions listed under the chapter **MAINTENANCE**.



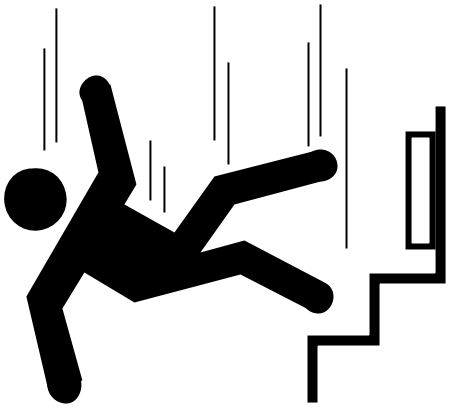
(fig.5/B)

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USING HANDLES AND STEPS

▲ Falling is one of the major causes of personal injury.

- Always face the vehicle when getting in or out, keeping a tight hold of the vehicle on the steps and handles.
- Never use the controls as handles.
- Never jump down from the vehicle. Never get on or off a moving vehicle.
- Always keep footboards, steps and handles clean and make sure they are not slippery.

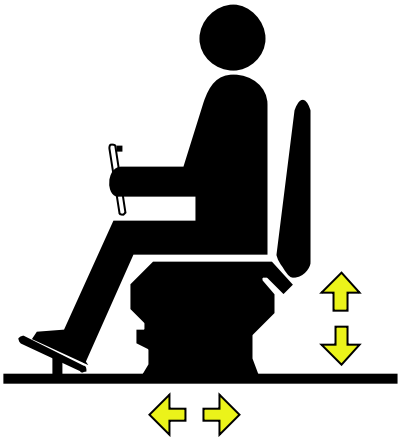


(fig.6/B)

ADJUSTING THE DRIVER'S SEAT

▲ A badly adjusted seat can cause the driver to tire quickly and may thus lead to operations being carried out incorrectly.

- The seat should be adjusted according to the height and weight of the driver.
- The driver should be able to press the pedals right down and to operate correctly all control levers while keeping his/her back leaning well up against the back of the seat.
- If this is not so, move the seat forward or backward, and check once again.

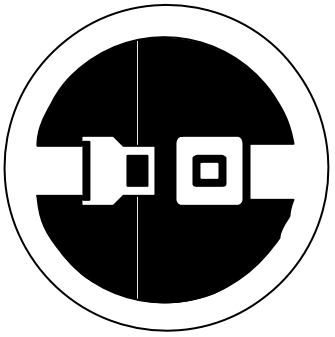


(fig.7/B)

USING THE SEAT-BELT

▲ The vehicle is equipped with a cab able to support the weight of the vehicle itself should it tip over (ROPS), it is, therefore, essential that the driver remains firmly fastened in the seat thanks to the seat-belt to prevent him/her from falling out and possibly getting crushed.

- Before starting up the vehicle, carefully check the belt, the buckle and that it is properly fixed to the structure. If there should be any sign of damage or wear and tear, replace the seat-belt or the necessary part before using the vehicle.
- Always remain seated with the seat-belt correctly fastened whenever using the vehicle in order to reduce the risk of injury in case of an accident.
- Should there be any accident of any significance with the vehicle, the seat-belts should be replaced, even if there is no apparent damage.



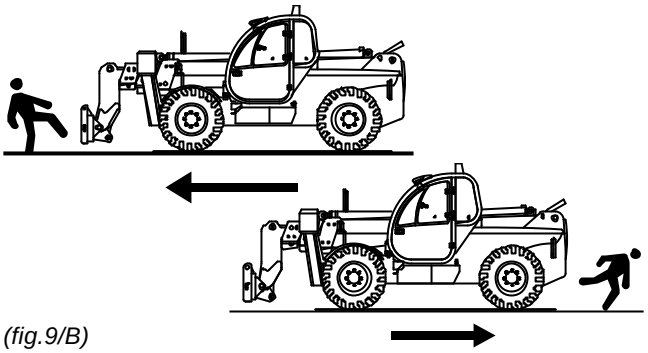
(fig.8/B)

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MANOEUVRING AND USING THE VEHICLE IN SAFETY

▲ Before starting the vehicle, make sure you know where other people are positioned.

- While the vehicle is operating or running, always keep light signals on. These serve to warn people that the vehicle is about to move.
- When working in a congested area, always have someone else to give the necessary signals.



(fig.9/B)

OPERATE THE MACHINE FROM THE DRIVER'S SEAT ONLY

▲ The vehicle could move suddenly if started up without following the correct procedure, thus creating the risk of personal injury.

- Start the engine only from the driver's seat.
- NEVER start the engine by short circuiting between the terminals on the starting motor.
- Before starting the engine, make sure all control levers are in a neutral position.



(fig.10/B)

STARTING UP USING AUXILIARY BATTERIES

▲ Gas from the battery may explode, causing serious damage.

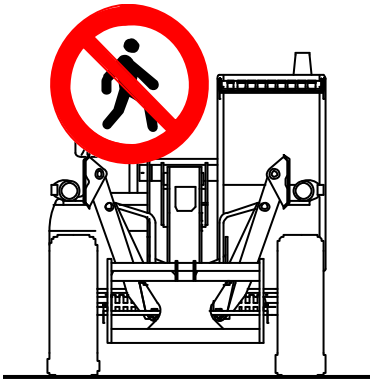
- If the engine has to be started up using an auxiliary battery, make sure that the instructions given in the chapter **USER INSTRUCTIONS** are strictly adhered to.
- The operator must be in the driver's seat when starting the engine in order to ensure the vehicle is under control. Two people are required to start the engine from an auxiliary battery.
- Do not use batteries which have been exposed to cold.
- An error in the starting procedure when using an auxiliary battery may cause the battery to explode or the vehicle to move suddenly.



(fig.11/B)

DO NOT CARRY PASSENGERS ON YOUR VEHICLE

- The operator should be the only person on board the vehicle. Passengers are not allowed.
- Passengers may obstruct the operator's view, causing the vehicle to be used in conditions which are NOT safe.



(fig.12/B)

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PROTECTION AGAINST FALLING OBJECTS

▲ The vehicle is equipped with a cab suitable for protection from objects falling from above (FOPS).

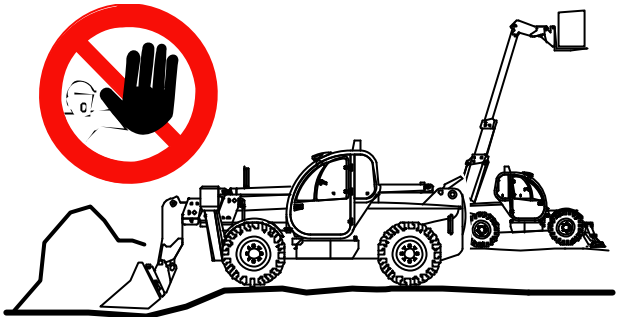
● If there is any risk of objects falling from above, a helmet should be worn.



(fig.13/B)

SIGNALLING WHEN MORE THAN ONE VEHICLE IS BEING USED

▲ When more than one vehicle is required for a particular job, use signals normally familiar to all those present. Designate one person to signal and coordinate the work zone. Make sure that everyone follows directions given by the person in charge of signalling.



(fig.14/B)

DRIVING THE VEHICLE SAFELY

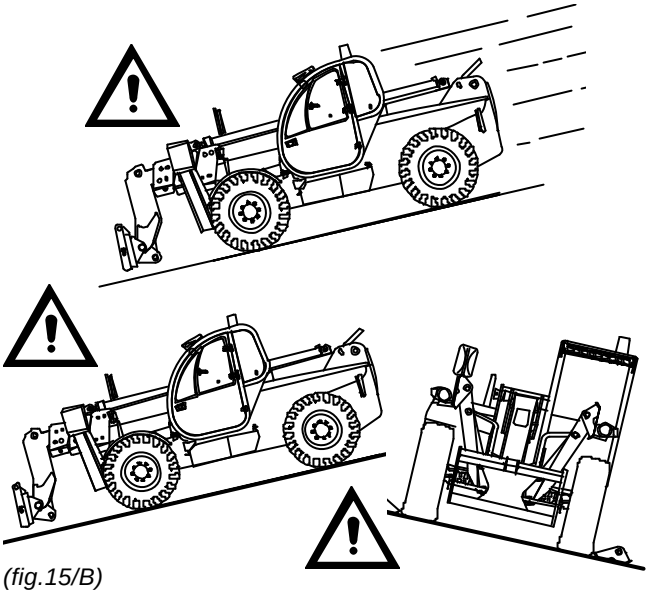
ATTENTION:

▲ When driving on sloping roads, make sure to drive at slow speed because a high engine rpm could cause mechanical damages. Do not drive at high speeds when driving down slopes to avoid “excessive revving of the engine”.

ATTENTION:

▲ Manouevres on tilted surfaces maycause the vehicle to slide or tip over with consequent serious harm to the driver or other persons.

● Moving on tilted surfaces maycause the vehicle to slide or tip over. The necessary precautions should therefore be taken.



(fig.15/B)

INSPECTING THE WORK ZONE BEFORE STARTING OPERATIONS

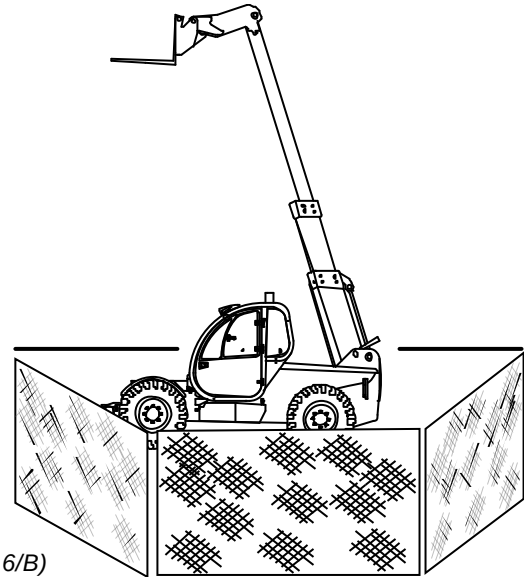
▲ There is the risk of the vehicle overturning, when working alongside excavations or on the edge of the road.

● Inspect the structure and condition of the terrain in the work zone before starting to operate.

● Keep the vehicle well away from the edges of excavations and of the road.

● When working on a slope or at the edge of a road, have someone to give the necessary signals.

● Extra care should be taken, when working on icy terrain. If the temperature should go up, the terrain could melt and become slippery.



(fig.16/B)

MAKE SURE THERE IS NO ONE AT RISK WHILE REVERSING THE VEHICLE

▲ Proceed as follows to ensure accidents are avoided while reversing the vehicle or rotating:

- Check the space around the vehicle

BEFORE REVERSING MAKE SURE THERE IS NO ONE WITHIN STRIKING DISTANCE.

- **MAKE SURE THERE IS NO ONE IN THE WORK ZONE. USE THE AUDIBLE ALARM OR OTHER SIGNALS TO WARN PERSONS PRESENT BEFORE STARTING THE VEHICLE.**

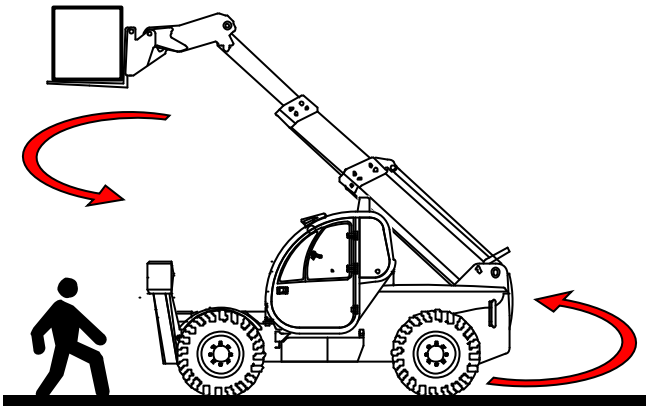
- **USE SOMEONE ON THE GROUND TO SUPERVISE REVERSING IF THE OPERATOR'S FIELD OF VISION IS OBSTRUCTED.**

- **ALWAYS MAKE SURE THE PERSON ON THE GROUND REMAINS WITHIN SIGHT.**

- Use hand signals, compliant with local regulations, when work conditions are such that someone is needed for signalling.
- Keep windows, mirrors and lights clean and in good condition.
- Dust, rain, fog, etc., may reduce visibility. If visibility is reduced, reduce speed accordingly and use appropriate lighting.
- The vehicles are equipped with lighting only for transportation. If the vehicle is to be used at night, suitable external lighting should be arranged.



! ATTENTION !



(fig.17/B)

NEVER POSITION MOVING PARTS ABOVE PEOPLE

▲ Do not lift, move or rotate the attachment above people. Damage may be caused by spillage from the attachment or by it knocking against something.

PROTECTING YOURSELF FROM FLYING FRAGMENTS

▲ In certain conditions, fragments of material may be thrown out while you are working. In such cases protective goggles should be worn and anyone not equipped with goggles should be kept at a distance.

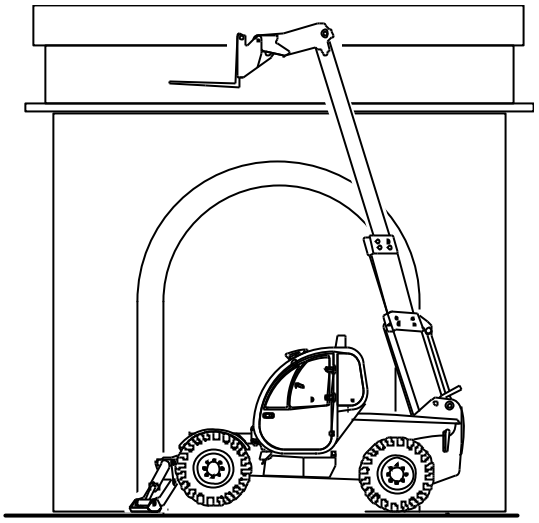


(fig.18/B)

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WORKING WITH DUE CARE AND ATTENTION

▲ While driving or manoeuvring the vehicle, keep the height of the various parts of the vehicle in mind. Remember certain parts protrude beyond the dimensions of the cab.

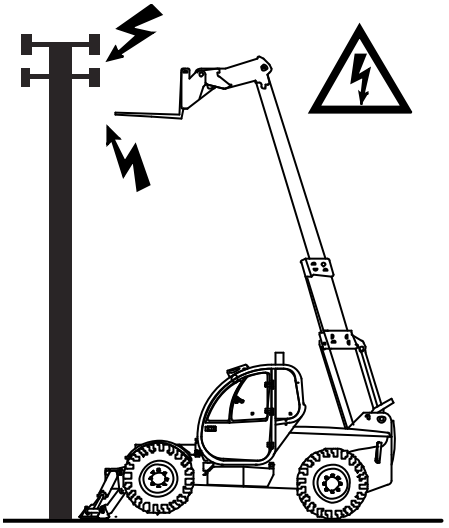


(fig.19/B)

AVOIDING ELECTRIC CABLES

▲ Do not work within a distance of less than 5 metres from electric cables.

- Damp ground may increase the possible danger area from electric discharges.

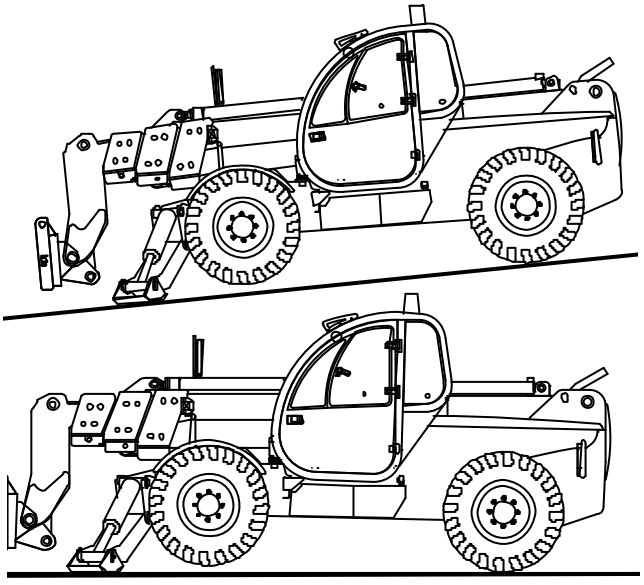


(fig.20/B)

PARKING THE VEHICLE IN SAFETY

▲ Proceed as follows, to prevent accidents:

- Park on flat ground;
- Disengage the gears and apply the parking brake;
- If the vehicle is equipped with stabilizers, lower them to the ground;
- Run the engine at a minimum with no load for 10 sec;
- Position the key to halt the engine
- Remove the key from the switch;
- Block the hydraulic controls using the appropriate devices (where available).
- Close the windows and lock the door of the cab.
- If necessary, put wedges under the wheels.



(fig.21/B)

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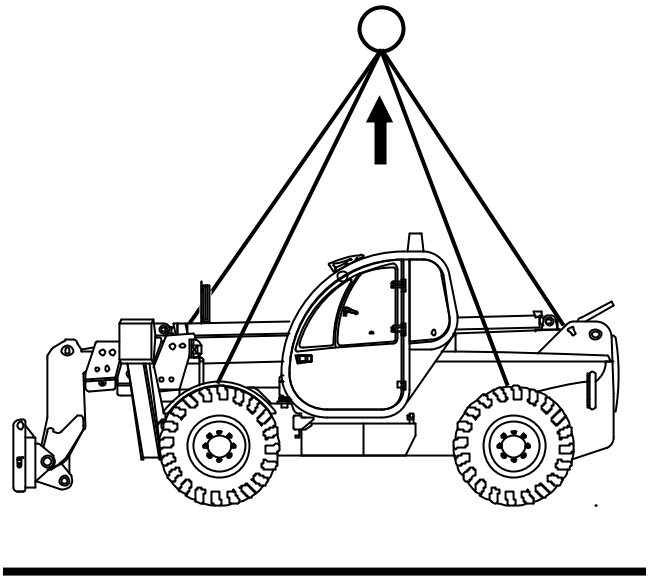
RAISING THE MACHINE

- ATTENTION: Make sure that the raising mechanism has a suitable capacity for the weight of the vehicle.

The weight of the vehicle is indicated on the relevant metal plate, check the dimensions for the maximum and minimum height from the ground and for the weight allowed.

The machine is equipped with lifting points marked with the appropriate symbol. Before proceeding to lift the vehicle, make sure there is no one within range other than relevant staff. Attach the cords to the points shown in the illustration, taking particular care when actually lifting the vehicle. Proceed to slowly raise the vehicle.

- IMPORTANT: the cables must be able to support a minimum weight of 6 Tons.



(fig.22/B)

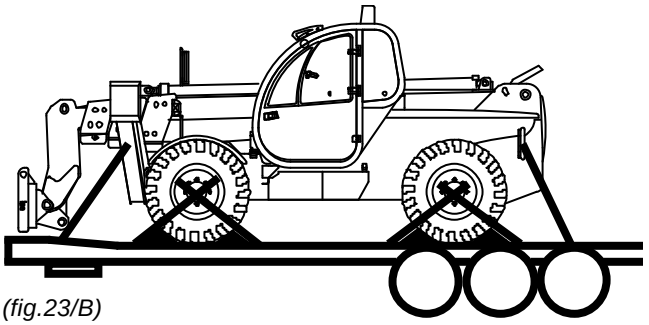
TRANSPORTING SAFELY

▲ The risk of overturning is always present, when loading or unloading the vehicle from another means of transport.

- Make sure local regulations are respected when transporting the vehicle on public roads.
- Use a suitable truck or trailer to transport the vehicle.

▲ Take all necessary precautions when loading or unloading the vehicle:

1. Choose a terrain that is solid and level.
2. Use a loading platform or ramp.
3. Have someone on the ground to assist in supervising manoeuvres.
4. Always use the lowest speed.
5. Do not set off any equipment when the vehicle is precariously balanced.
6. Use the appropriate eye-bolts to hook up the vehicle to the transportation vehicle.



(fig.23/B)

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CHECKING THE WIND SPEED

Variations in wind speed can cause several inconveniences such as loss of machine stability, load oscillation, and a reduction in visibility due to blowing dust, leaves, etc.

Other unfavourable factors affecting machine use include:

- Site location; the aerodynamic effect of buildings, trees and other structures increase the wind speed.
- The height of the extended boom; the higher the boom, the higher the wind speed.
- Load dimensions; the larger the area occupied by the load, the more it is affected by the force of the wind.

- CAUTION -

***DIECI* telehandlers can be used in wind speeds up to 45 Km/h equal to 12.5 m/s (no. 6 of the Beaufort scale) measured at ground level.**

- CAUTION:

At a temperature of 10°C, in winds with a speed of 32 Km/h, the sensation of exposed body parts is a temperature of 0°C; the higher you are the higher the wind speed and the colder you will feel.

- CAUTION:

If there is a fresh breeze (fig. 24/B n. 5 in the Beaufort Scale), never raise loads with a surface area greater than one square metre.

Below is a graph of the Beaufort scale (fig.24/B) to give an indication of the wind speed at which you can work and when to suspend work if certain values are exceeded.

THE BEAUFORT WIND SCALE

No	DESCRIPTION	CONDITIONS	SPEED m/s
0	Calm	Smoke rises vertically	0 - 0,2
1		Direction of wind shown by smoke drift	0,3 - 1,5
2	Light air	Wind felt on face; leaves rustle; ordinary vanes moved by wind.	1,6 - 3
3	Gentle breeze	Leaves and small twigs in constant motion; wind extends light flag	3 - 5
4	Moderate breeze	Raises dust and loose paper; small branches are moved.	5 - 8
5	Fresh breeze	Small trees in leaf begin to sway; crested wavelets form on inland waters.	8 - 11
6	Strong breeze	Large branches in motion. Whistling heard in overhead wires. Umbrella use becomes difficult	11 - 14
7	Near gale	Whole trees in motion. Effort needed to walk against the wind	14 - 17
8	Gale	Breaks twigs off trees; generally impedes progress.	17 - 21
9	Severe gale	Slight structural damage occurs (chimney-pots and slates removed)	21 - 24

(fig.24/B)

EVALUATE THE CONSISTENCY OF THE GROUND

The ground on which the telehandler is positioned must be able to support the machine and its maximum load.

- CAUTION -

If the ground under the telehandler collapses, the machine may roll over.

Comply with the following indications to avoid overturning the machine:

- Ask your employer (works manager, construction assistant) if there may be any hidden cavities below the stabilisers (pipelines, wells, old cisterns, basement ceilings, manure pits, etc.)
- The operator must evaluate the consistency of the ground, using the tables and graphs provided. In case of doubt, consult the civil engineer present on the site or seek the advice of an external engineer.
- Depending on the type of ground and its geomorphologic characteristics, the subsoil can only support a limited quantity of stress. The table in fig.26/B indicates the allowed surface pressure underneath the telehandler stabilisers.
- On the basis of the "*Maximum pressure exercised on the ground by the stabiliser feet*" Table (fig.25/B) and the data extracted from the table in fig.26/B, "*Allowed surface pressure on varying ground types*", it is possible to deduct the necessary support surface (increased support bases).

- CAUTION:

Always seek the advice of a civil engineer for the most reliable and exact evaluation possible of the ground where you intend to work and the dimensions of the support plates.

- CAUTION:

On request, *DIECI* can provide enlarged base supports.

EXTENSION (mt)	PRESSURE (kg/cm)
13 mt	10 kg/cm²
16 mt	10 kg/cm²
17 mt	10 kg/cm²
18 mt	10 kg/cm²
21 mt	10 kg/cm²
25 mt	10 kg/cm²

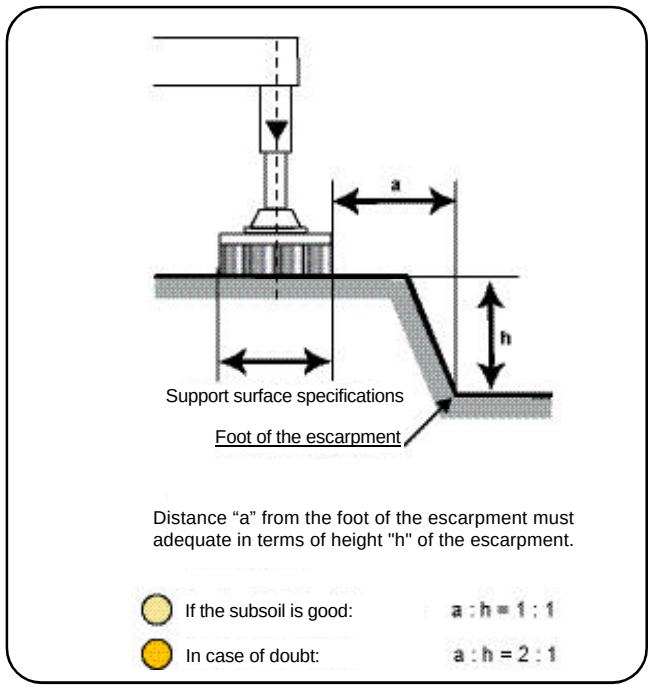
(fig.25/B)
"Maximum pressure exercised on the ground by the stabiliser feet" Table

Type of ground, geomorphologic specifications		Allowed surface pressure Kg/cm²	Allowed surface pressure N/mm²
Loose,non-compacted ground		Generally not solid, requires special measures	
Limey, peaty, pasty ground			
Coherent, soft ground			
Incoherent, well compacted ground, sand, gravel		2.0	0.2
Coherent ground	Solid	1.0	0.1
	Semi solid	2.0	0.2
	Hard	4.0	0.4
Rock, concrete, road surface suitable for the transit of heavy goods vehicles		Over 10.0	Over 1.0

(fig.26/B) Allowed surface pressure on varying ground types

Maximum load bearing capacity	Allowed surface pressure		
	1 Kg/cm²	2 Kg/cm²	4 Kg/cm²
	Necessary support surface		
10t	1.0m x 1.0m	0.7m x 0.7m	0.5m x 0.5m
20t	1.4m x 1.4m	1.0m x 1.0m	0.7m x 0.7m
30t	1.7m x 1.7m	1.2m x 1.2m	0.9m x 0.9m
40t	2.0m x 2.0m	1.4m x 1.4m	1.0m x 1.0m
50t	2.2m x 2.2m	1.6m x 1.6m	1.1m x 1.1m
60t	2.4m x 2.4m	1.7m x 1.7m	1.2m x 1.2m

(fig.27/B) Dimension of the support surface compared to the geomorphic characteristics of the ground



(fig.28/B) Machine positioned on an escarpment

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CARRYING OUT MAINTENANCE WORK SAFELY

▲ Proceed as follows to prevent accidents:

- Make sure you are familiar with maintenance procedures before starting work.
- Keep the work zone clean and dry.
- Do not lubricate parts or carry out any maintenance work when the vehicle is in motion.
- Keep hands, feet and clothing well away from any parts in motion.



(fig.29/B)

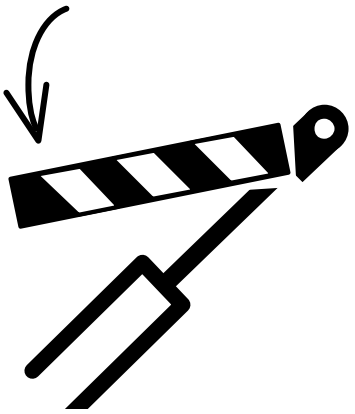
Before doing any maintenance to your vehicle:

1. Park the vehicle on flat ground.
2. Lower the bucket to ground level.
3. Run the engine at a minimum with no load for 10 seconds to cool it down.
4. Switch off the key in the ignition switch.
5. Remove the key from the ignition.
6. Let off any residual pressure in the hydraulic system, repeatedly using the hydraulic distribution levers with the engine switched off.
7. Hang up a sign saying maintenance work under way. This sign can be hung on the manipulators or cab door.
8. Leave the engine to cool down.



(fig.30/B)

- If you need to run the engine to carry out maintenance, do not leave the vehicle unattended.
- If the vehicle needs to be raised, make sure you use supports that are sufficiently strong.
- If you need to work under any raised parts, (arms, shovel, etc.) block the parts with spacers placed on the cylinder rods or lean the parts on adequately sized supports.
- Immediately repair any damage.
- Replace any worn or broken parts.
- Eliminate any accumulation of grease, oil or deposits.
- Disconnect the wires from the battery before intervening on the electrical system or before doing any arc welding on the vehicle.
- When carrying out electric welding, connect the earth of the welding machine near the area to be welded, in order to prevent the electric current from passing through ball bearings, articulated joints, hydraulic cylinders or sliding parts.
- Always consult this manual, in any case, when carrying out routine maintenance.

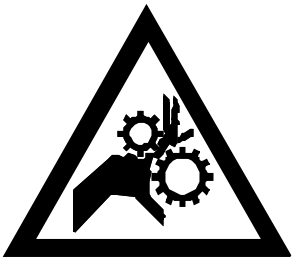


(fig.31/B)

KEEP AWAY FROM MOVING PARTS

▲ Damage may be caused from entrapment in moving parts.

- To prevent accidents, make sure that, while you are working, hands, feet, clothing, jewellery and hair cannot get caught up in moving parts.



(fig.32/B)

PREVENTING BURNS

- Jets of hot liquids:

▲ After the vehicle has been used, the cooling liquid in the engine is hot and under pressure. Any contact with hot water or steam may cause serious burns.

- Avoid any possible injury caused by hot water jets. Do not remove the radiator cap until the engine has cooled down. To open it, unscrew the cap as far as possible. Before removing the cap, let off all pressure.

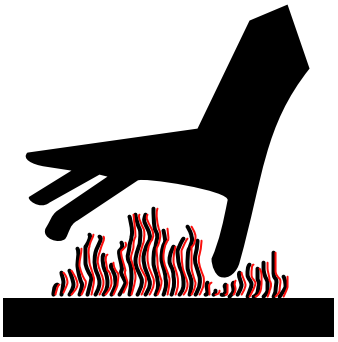


(fig.33/B)

- Fluids and hot surfaces:

▲ Oil from the engine, the gearboxes and the hydraulic system gets hot while the vehicle is in use. The engine, all rigid and flexible pipes and other parts get hot.

- Wait until all parts cool down before starting any maintenance and repair work.



(fig.34/B)

WATCH OUT FOR PRESSURISED FLUIDS

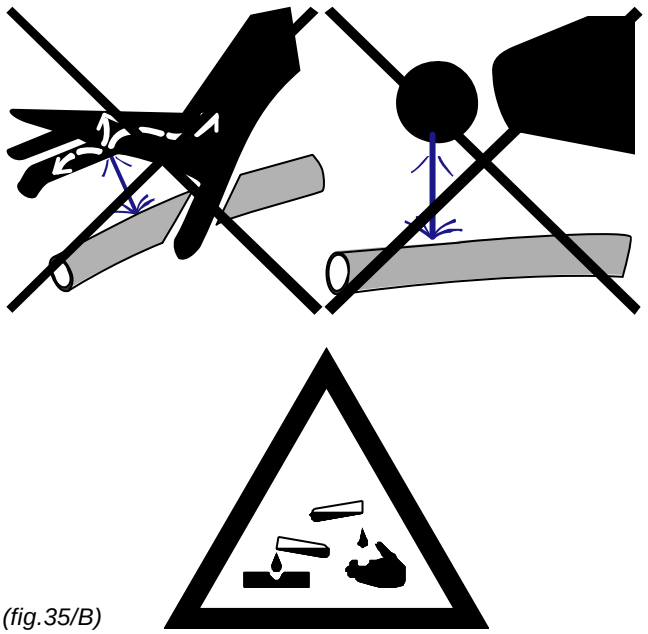
▲ Fluids such as fuel or hydraulic oil under pressure can penetrate the skin and eyes causing serious injuries.

- Avoid running this risk while you carry out repair operations or maintenance in the machine, discharging the pressure (using the hydraulic levers of the distributors) before to disconnect or to repair pipes and hydraulic pieces

- Before restarting the engine, make sure that all connections have been properly tightened.

- Use a piece of cardboard to check for any leaks; make sure your hands and body are adequately protected against pressurised fluids. Use a face mask or safety goggles to protect your eyes.

- Should there be an accident, seek medical attention immediately. Any fluids which penetrate under the skin will need to be removed surgically within a few hours in order to prevent infection.



(fig.35/B)

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FIRE PREVENTION

▲ Make sure there are no leakages of inflammable liquids:

- Fires or serious injuries can be caused by leakage of fuel, oil and lubricants.
- To prevent oil or diesel from leaking, make sure that there are no loose or missing clamps, no twisted flexible pipes and that there are no flexible pipes rubbing up against each other.
- Do not bend any pipes under pressure. Never install damaged piping.



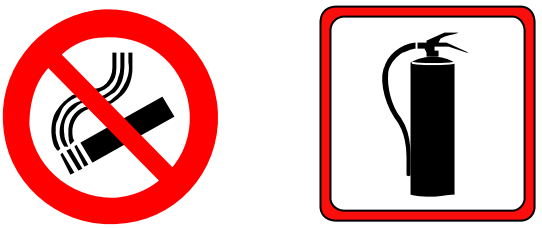
(fig.36/B)

▲ Make sure there are no short circuits:

- A short circuit can cause a fire.
- Clean and fix down all electrical connections. Before every work shift, make sure that there are no loose, twisted, hardened or damaged cables.
- **DO NOT USE THE VEHICLE** if electric wiring is damaged or twisted etc.

▲ Remove inflammable materials:

- Fuel, oil, grease, waste, deposits or accumulated coal dust or any other inflammable components can start a fire.
- Prevent fires by inspecting and cleaning the vehicle every day, immediately removing anything inflammable.



(fig.37/B)

▲ Check the ignition switch:

- In case of fire, a breakdown when stopping the engine will obstruct the work of the fire brigade.

HANDLING DANGEROUS LIQUIDS SAFELY PREVENTING FIRES

▲ Handle fuels carefully: they are easily inflammable. If fuel is ignited, there may be an explosion or a fire.

- Do not smoke while refuelling the vehicle. Do not refuel if there are any naked flames or sparks.
- Always switch the engine off to refuel.
- Fill the tank in the open air.

▲ All fuels, the majority of lubricants and some types of antifreeze are inflammable.

- Keep all inflammable liquids well away from risks of fire.
- Do not burn or perforate pressurised containers.
- Do not keep rags soaked in lubricants; they could be the cause of fires and spontaneous ignition.



(fig.38/B)

MOVING AWAY IN CASE OF FIRE

▲ If there should be a fire, proceed as follows before moving away from the vehicle:

- If there's enough time, stop the engine by turning off the key in the ignition switch.
- Move away from the vehicle. Only try to put out the fire if you have an efficient fire extinguisher available.

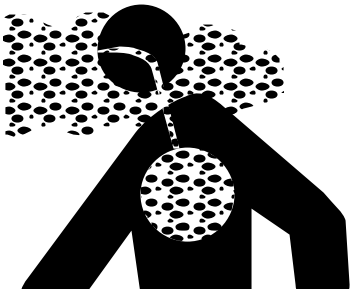


(fig.39/B)

WATCH OUT FOR EXHAUST GAS

▲ Exhaust gases from the engine are toxic and can damage your health.

- If you need to work in a closed in area, make sure that there is sufficient air circulation and equip the vehicle with suitable a cleaner.



(fig.40/B)

PREVENTING THE BATTERY FROM EXPLODING

▲ Battery gas could explode.

- Keep any sparks, naked flames or lit cigarettes well away from the upper part of the battery.
- Never place anything metallic between the clamps when checking that the battery is charged. Use a voltmeter or densimeter.
- Do not charge batteries that are very cold; they could explode. Warm up the battery to around 16 °C.

▲ Battery electrolyte is a highly corrosive acid. If the battery should explode, the electrolyte could spurt into your eyes and possibly cause blindness.

- Make sure you always wear protective goggles when carrying out maintenance to the battery.

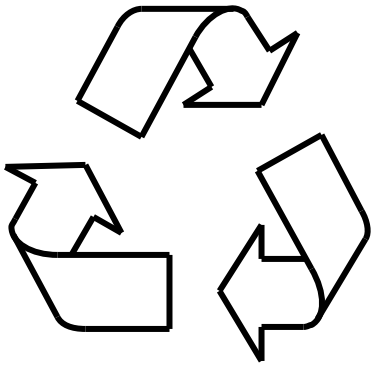


(fig.41/B)

DISPOSING OF WASTE APPROPRIATELY

▲ Improper waste disposal is a threat to the environment. Lubricants, fuel, coolant, filters and batteries are all potentially harmful waste products.

- Do not spill or pour waste onto the ground, into the sewers or into water beds.
- Contact your local authority or collection centres for information as to how to recycle or dispose of waste properly.



(fig.42/B)

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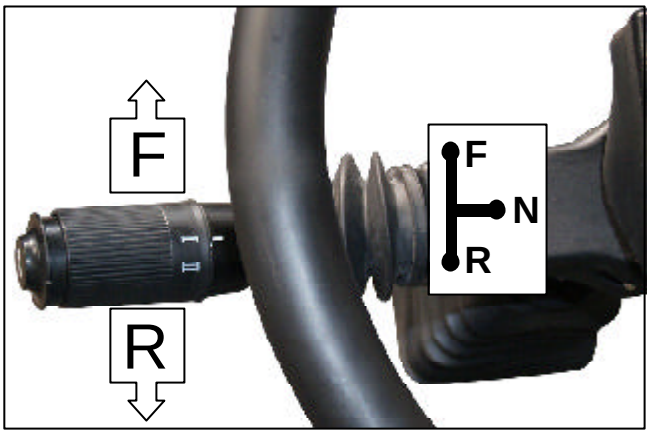
SAFETY DEVICES

The vehicle is equipped with certain safety devices which safeguard its use from incorrect manoeuvres or from carelessness.

Where the safety devices are located and what they are for:

Gear control lever
(fig.43/B)

If the forward gear "**F**" is engaged or reverse"**R**" the egnine will not startt The lever must be in the neutral position "**N**". Furthermore, the driver must be seated in the driver's seat.



(fig.43/B)

Under the seat
(fig.44/B)

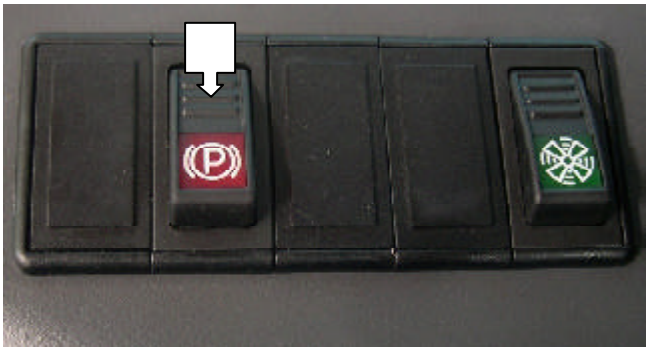
If the operator gets up or leaves the driver's seat with the gear engaged, the vehicle stops. The engine can be started up only when the operator is sitting in the driver's seat and the electric gear control is in neutral.



(fig.44/B)

Parking brake lever
(fig.45/B - 46/B)

If the parking brake lever is on, the hydrostatic transmission is automatically deactivated.



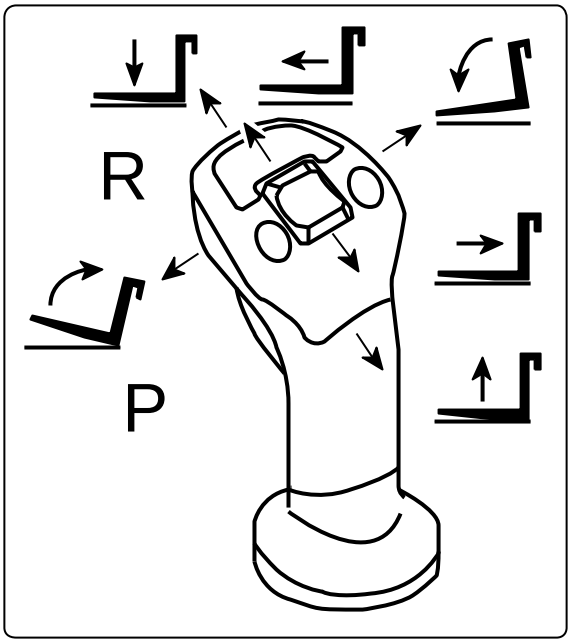
(fig.45/B)



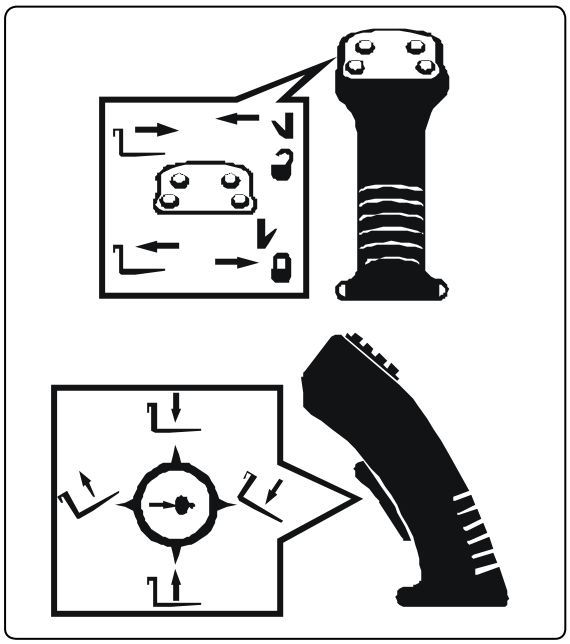
(fig.46/B)

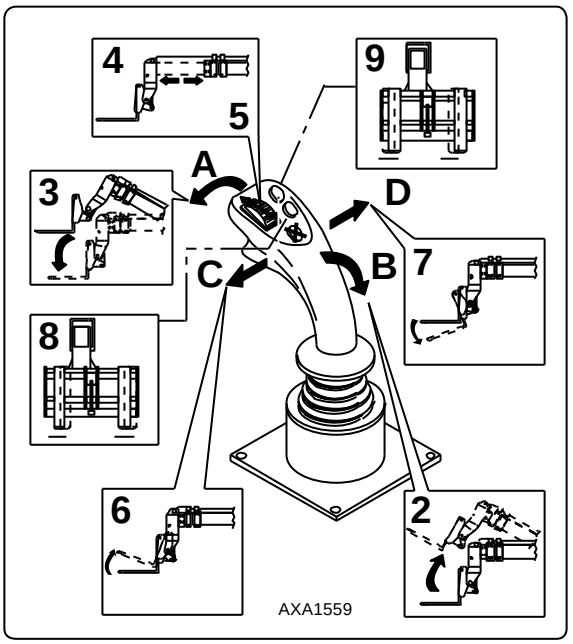
Device for accidental manoeuvres
(fig.47/B) (fig.48/B)

Located on the control lever for boom movements: if this is not pressed, the vehicle is not enabled for operations. These must in any case be activated separately.
(For full information see pag:C/22)



(fig.47/B) Control lever for arm movements " Standard"





(fig.48/B)
Control levers for arm movements "Optional"

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ANTI-TIPPING DEVICE

Right-hand side dashboard
(fig.49/B)

With the key switch (fig.49/B Pos."1") turned **ON**, the anti-tipping device is enabled; all machine movements will be blocked if a hazardous condition for the operator's safety should occur. A set of LEDs visually points out when the limit condition is approached. Acoustic indicators sound as the LEDs light up. This device can be disabled at your own risk and responsibility by turning the key **OFF** (fig.49/B Pos."1") (if this should be necessary when using particular equipment). This key can be taken out of the dashboard while the device is enabled to prevent it from being accidentally or intentionally switched off without authorisation on behalf of the foreman in charge of site safety.

⚠ - **ATTENTION**:
This device MUST be enabled when using the machine as an elevator (key selector switched ON - Pos."1" - fig.49/B).

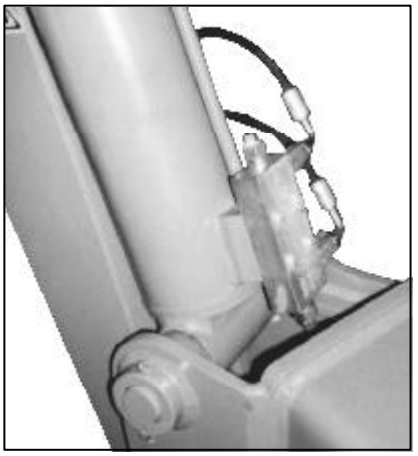


(fig.49/B)

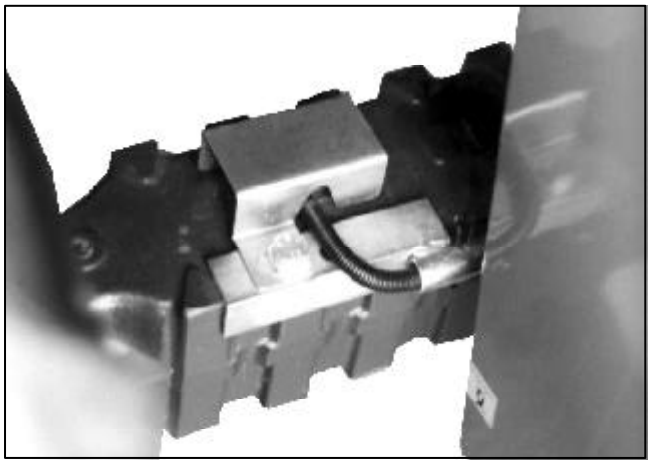
Stop valve on cylinders of outrigger feet
(fig.50/B)

Detector for boom tilt and extension
(fig.51/B)

Detector located on the rear axle
(fig.52/B)



(fig.50/B)

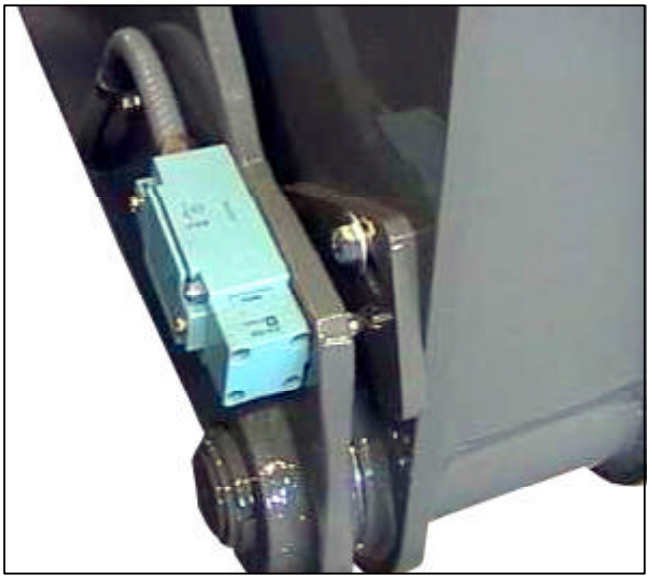


(fig.52/B)



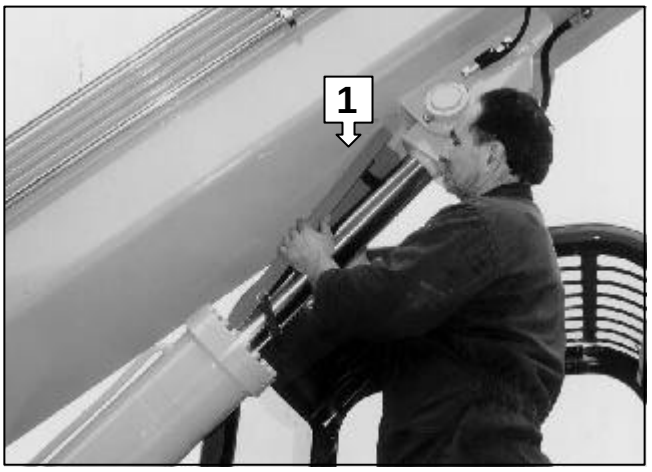
(fig.51/B)

Presence detector foot lowered
(fig.53/B)



(fig.53/B)

Safety rod for boom support during maintenance
(fig.54/B)



(fig.54/B)

ROPS-FOPS cab
(fig.55/B)

The vehicle is equipped with a rops and fops homologated cab (fig.55/B Pos.“1”). The operator is therefore protected if the vehicle should tip over and against falling objects, as prescribed for ground moving vehicles. It is compulsory that seat belts are worn when using the vehicle, to prevent the driver from knocking against the inner structure of the cab. The rear window can be used as an emergency exit. It can be opened right out by sliding out the relevant sprung pin located on the opening handle. It is forbidden to open the window right out while the vehicle is being used, as this could risk being snapped between the boom and the chassis.

ATTENTION:
If the cab presents visual damages, replace it by contacting an authorised service centre or authorised workshop of *DIECI*.



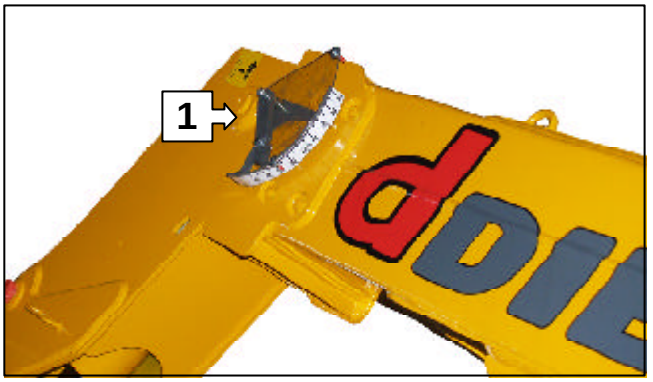
(fig.55/B)

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Inclinometer
(fig.56/B)

To check the correct inclination of the boom, refer to the inclinometer fitted on the boom (fig.56/B Pos.“1”). The inclinometer is fitted standard on all versions of telescopic elevators, barring models equipped with automatic inclination detector.

Check which accessory is fitted on the machine, then consult the correct load chart (fig.58/B) accordingly, situated in the driver’s cab (fig.57/B Pos.“1”).



(fig.56/B)

Note-book with essential data
(fig.57/B Pos.“1”)

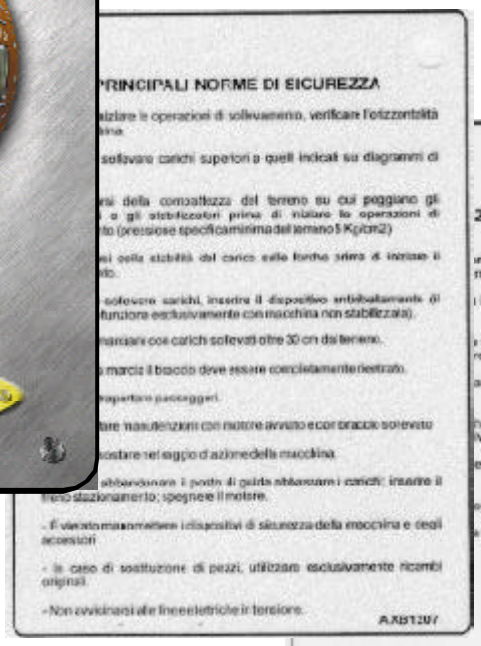
- A : cover page
- B : pages with safety information
- C : pages with information for driving the vehicle on the road
- D : pages for tyre pressure
- E : pages with capacity graphs



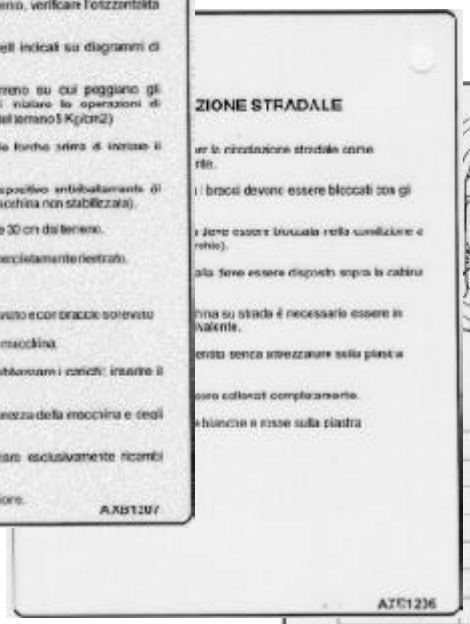
(fig.57/B)



A : cover page



B : page with information on safety



C : page with information for driving on public roads



D : page with tyre pressure

USING THE LOAD TABLES

ATTENTION

CHECK THE LOAD TABLES FOR YOUR VEHICLE WITH CHAPTER "H" TECNICHAL SHEETS

The Safe Working Load -SWL of these vehicles depends on the extent of extension and tilt of the boom.

This vehicle is equipped with an anti-tipping device.

For further information on the indication of the safe load see the relevant paragraph
(in chapter"C" Getting to Know Your Vehicle "anti-tipping device").

The load table located inside the cab illustrates the safe working loads in relation to the various positions of the boom.
The extension of the boom is marked with the letters : "A" "B" "C" "D".

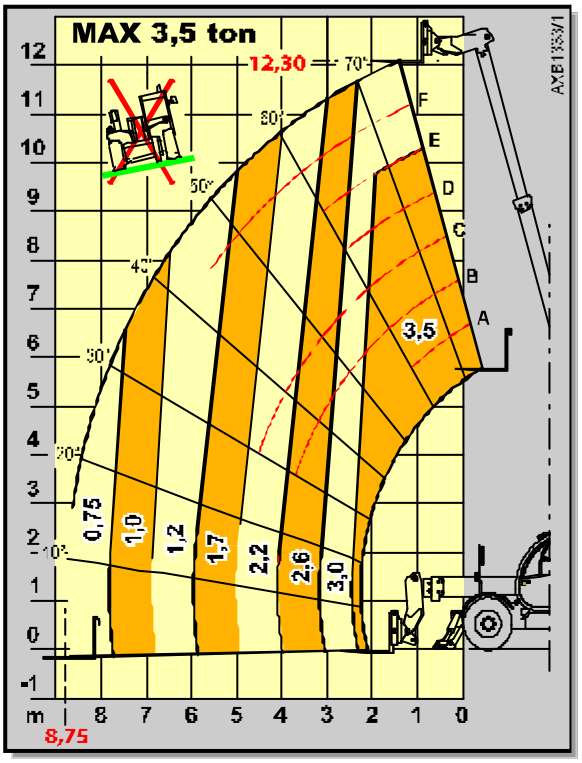
The load table indicates the maximum height and extension achievable with a determined load without exceeding the safe load.
The elevator is also equipped with its own load table. The load table has been calculated for a fork standard elevator.
Furthermore, there are additional load tables for use with the various boom attachments.

The load table illustrated is only given as an example.
Before lifting or positioning loads, consult the load tables.
Before lifting or positioning loads, consult the load tables located in the handbook located on
the roght of the central dashboard or consult chapter "H" (vehicle technical sheets) in this manual.

ATTENTION

The limits given in the load tables refer to the vehicle at a halt. Do not raise or extend the boom when the vehicle is moving.
Retract the boom completely and lower it as far as possible before moving the vehicle with a load.
Check which boom attachment has been mounted on the vehicle and then consult the relevant load table.

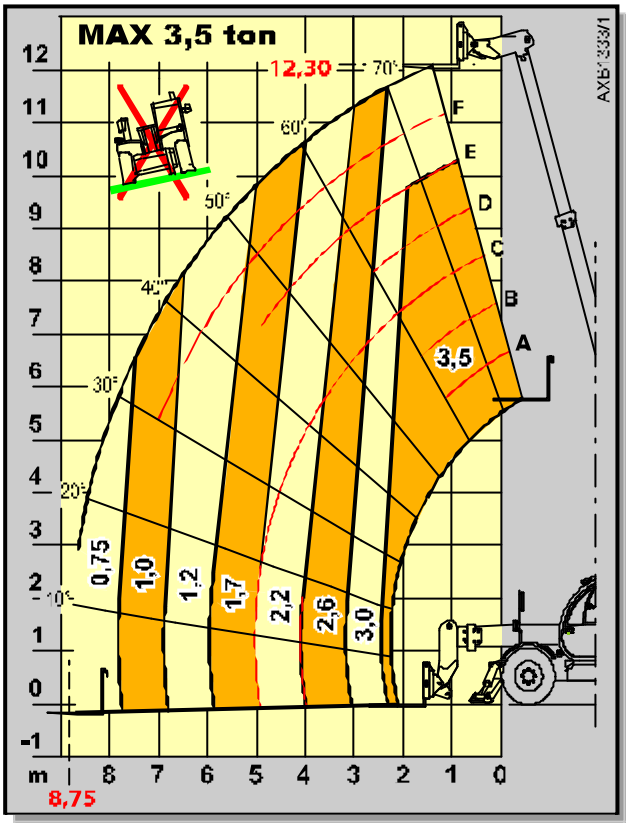
E : page (capacity graph)



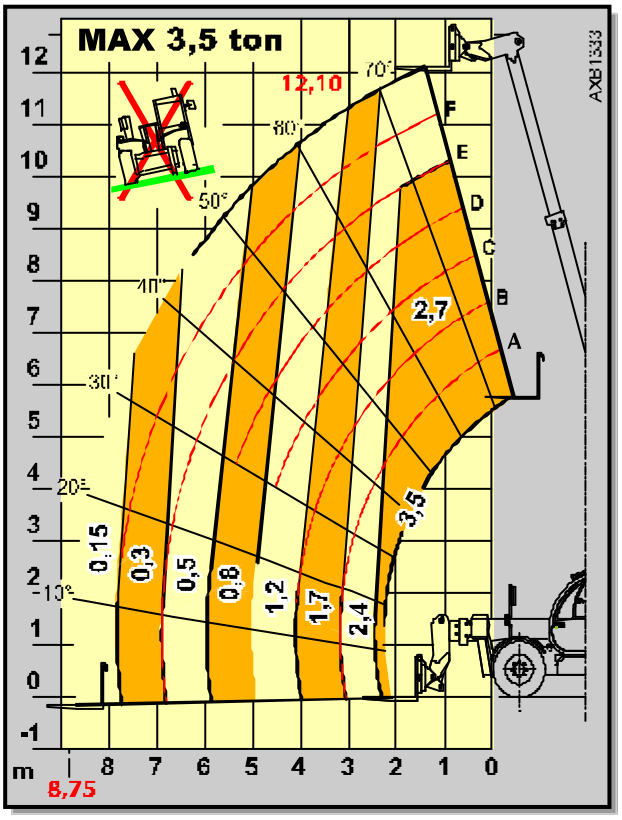
(fig.58/B) Example diagram

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Example "A"
(with outrigger feet)



Example "B"
(without outrigger feet)



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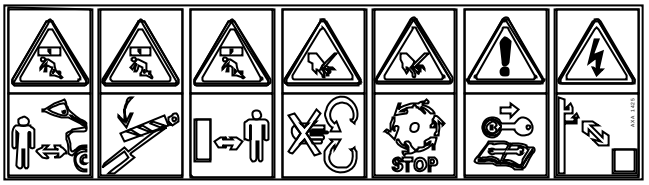
SAFETY STICKERS

Safety stickers and where they are located

- (fig.59/B) - Located in the cab on the right hand side window.
  Danger: keep all persons at a safe distance from the vehicle when starting loading operations.
  Danger: when carrying out maintenance work, block all hydraulic cylinders using safety locks (not provided).
  Danger: keep all persons at a safe distance.
  Danger: wait until all moving parts have come to a halt.
  Danger: switch off the engine and remove the key before starting maintenance work.
  Danger: check the work zone and keep far away from power supplies.
- (fig.60/B) - On the radiator.
  Danger: protect your face. Steam and hot water under high pressure. Remove the cap with due caution.
- (fig.61/B) - On the engine.
  Danger: risk of burns.
- (fig.62/B) - On the engine.
  Danger: do not open or remove the safety panels while the engine is running.
- (fig.63/B) - On the engine bonnet.
  Danger: do not open, wait until all moving parts have come to a halt.
- (fig.64/B) - On the stabilizing feet.
  Danger: risk of being crushed.
- (fig.65/B) - Inside the cab.
  Danger: watch out for electric cables.

Stickers for use and maintenance

- (fig.66/B) - On the chassis.
  Shows the 4 places where the vehicle can be anchored if it should need to be lifted.
- (fig.67/B) - Under the chassis.
  Shows the 4 places where the vehicle can be towed or anchored for transportation.
- (fig.68/B) - On the parts not to be stepped on.
  Keep off "danger of breakage".
- (fig.69/B) - On the fuel tank.
  Type of fuel to be used.
- (fig.70/B) - On the side of the hydraulic oil tank.
  Indicator for hydraulic oil level.
- (fig.71/B) - On the hydraulic oil tank.
  Marks the cap to top u the hydraulic oil.
- (fig.72/B) - Onthe engine bonnet.
  Shows how to disconnect the vehicle electriccircuit.
- (fig.73/B) - On the 4 fenders.
  Indicates recommended tyre pressure.



(fig.59/B)



(fig.60/B)



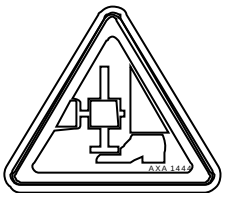
(fig.61/B)



(fig.62/B)



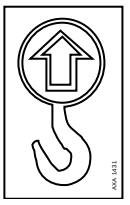
(fig.63/B)



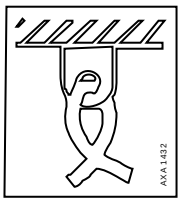
(fig.64/B)



(fig.65/B)



(fig.66/B)



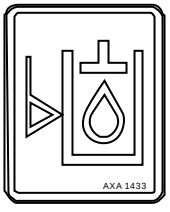
(fig.67/B)



(fig.68/B)



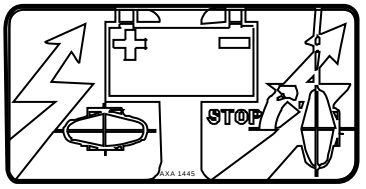
(fig.69/B)



(fig.70/B)



(fig.71/B)



(fig.72/B)



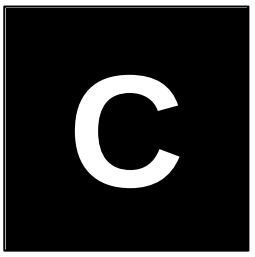
(fig.73/B)

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USER INSTRUCTIONS
AND
GETTING TO KNOW YOUR VEHICLE



THE ILLUSTRATIONS, DESCRIPTIONS, MEASUREMENTS, GIVEN IN THIS CHAPTER REFER TO STANDARD VEHICLES.

YOUR VEHICLE UPON YOUR REQUEST MAY BE EQUIPPED WITH OPTIONAL CONTROLS AND ACCESSORIES,

USER INSTRUCTIONS FOR THE “OPTIONALS”, ARE SET IN THE CHAPTER “G“

IT IS STRICTLY PROHIBITED TO USE THE MACHINE IN A DIFFERENT MANNER TO THAT DESCRIBED HEREIN.

FUNCTIONS AND PROCEDURES RELATING TO THE USE AND RIG-OUT OF THE MACHINE EQUIPMENT THAT ARE NOT DESCRIBED HEREIN ARE STRICTLY PROHIBITED.

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SAFETY REGULATIONS DURING USE

- **ATTENTION**:
The operator should use the vehicle and all its controls only when properly seated in the driver's seat.

- **ATTENTION**:
The telescopic described in the present manual cannot be used in closed spaces or anywhere where there might be explosive gases. If this vehicle needs to be used in such locations, themanufacturer should be contacted so that the necessary modifications can be made to the vehicle.

- **ATTENTION**:
It may be dangerous to work on a gradient. The conditions of the terrain can vary according to climatic conditions (e.g. rain, snow, ice). Careful attention must, therefore, be paid to the conditions of the terrain on which the vehicle is being used and low speeds are recommended.

- **ATTENTION**:
While transporting a load on a gradient, the load should be kept up gradient with respect to the vehicle in order to increase stability. Before mounting ramps or trailers with the vehicle, it is advisable to remove any mud, ice or oil which might lead to accidents.

- **ATTENTION**:
Proceed with due caution on loose, wet or muddy surfaces.

- **ATTENTION**:
Lack of efficient communication might well cause serious accidents. Always inform the persons in the work area of any operation you are about to carry out. If you are working with others, make sure any hand signals you intend to use are understood by everybody. Since work sites are often very noisy, do not rely on verbal communication.

IT IS FORBIDDEN to use moveable hydraulic parts of the vehicle to lift people, with exception of the use for which the vehicle has been designed and which are fully described in the present handbook.

- **ATTENTION**:
Before activating moveable hydraulic parts on the vehicle, make sure the surrounding area is free.

GENERAL WARNINGS

- **ATTENTION**:
The vehicle should be used exclusively by competent, authorized personnel who have already made themselves familiar with the contents of this manual. If the vehicle is to be used on public roads, the operator should be in possession of a valid driver's licence, category B or above. (Italian law).

- **ATTENTION**:
Do not use the machine if you are under the effect of alcohol, drugs or even if you have taken medicines that may make you drowsy or that may alter your prompt reactions.

- **ATTENTION**:
Before starting up the vehicle or before carrying out any particularly complicated or dangerous manoeuvres, it is essential that you practice in an empty, unobstructed part of the site.

- **ATTENTION**:
Clear, basic symbols are situated near each of the controls to make them more practical and comprehensible to the operator.

- **ATTENTION**:
When choosing the diagonal steering, always proceed slowly.

- **ATTENTION**:
If there should be any damage to potentially hazardous parts, stop the vehicle immediately. Do not resume work until the malfunction has been repaired.

- **ATTENTION**:
Tyres which are over inflated or overheated may explode: to inflate your tyres correctly, follow the instructions given in this manual. Do not weld or cut the rims; any repair work should be carried out by specialised personnel.

- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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PRELIMINARY CHECKS

GETTING READY TO OPERATE

Before starting to operate

Make sure the vehicle is in good working order. To ensure this, check out the vehicle as described below to obtain maximum efficiency in full respect of all safety regulations.

- ATTENTION:

IT IS FORBIDDEN TO USE THE VEHICLE until the contents of the present handbook have been carefully read and learnt.

IN ORDER TO CARRY OUT THE CHECKS LISTED BELOW, CONSULT THE CHAPTER: MAINTENANCE AND ADJUSTMENTS.

- Efficiency of parking brakes.
- Engine oil level (check and top up if necessary).
- Hydraulic oil level (check and top up if necessary).
- Air filter clogging indicator (check and if necessary clean it).
- Tyre condition and pressure (check).
- Fuel level.
- Signalling and warning devices (try out).
- Steering efficiency.
- Braking efficiency.
- Lights.

If the vehicle is not used for a long time, it should be checked thoroughly. Should there be any malfunctions, contact one the Manufacturer's Authorised Repair Centres.

Checking the vehicle is clean

- Clean all windows, lights and rear-view mirrors.
- Clean away any rubbish and dirt from the engine, from articulated joints and from the radiator.
- Make sure the footboard to get into the vehicle and the handle are clean and dry.
- Clean all safety stickers and manoeuvring indications. Replace them if they should prove illegible or missing.

Checking for damage

- Make sure there are no damaged or missing parts.
- Make sure all articulated pins are properly fastened.
- Make sure there are no signs of possible cracks or flaws or other damage to the windows.
- Make sure there are no oil, fuel or cooling liquids leaks from underneath the vehicle.
- Make sure the bolts on the wheels are properly tightened.

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KNOWING YOUR VEHICLE (CAB)

DOORS AND WINDOWS

Door handle

Unlock the door and press the button and pull the door towards you (fig.2/C Pos.”A”). The door has a lock and key. You can therefore lock the cab while the machine is being serviced or if it is left unsupervised.



(fig.2/C)

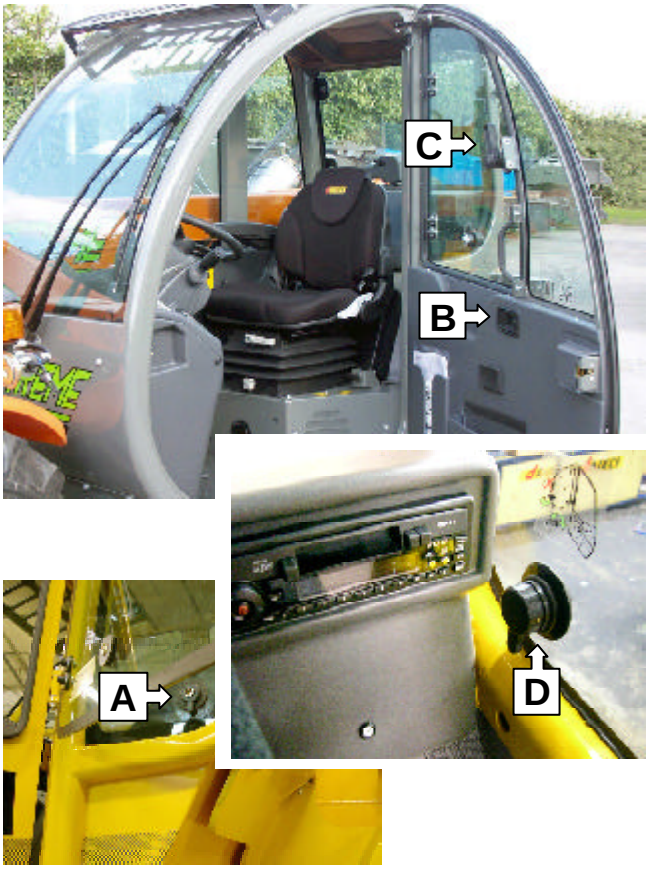
GETTING IN AND OUT OF THE CAB

- Always get in and out of the vehicle facing thecab. Mak sure that your hands and shoes are clean and dry to prevent slipping and the risk of falling.
- Do not use the controls or steering wheel inside the cab as handholds.

Internal door and window handles

- Internal door opening handle (fig.3/C Pos.”B”), pull to open.
- Opening and closing handle of window above the door (fig.3/C pos.”C”).

To open, push the handle down (fig.3/C Pos.”C”). To block the top door open, fix it to the special locking device by pressing slightly on it (fig.3/C Pos.”A”); to release it and then close it, turn the knob on the left-hand side of the operator clockwise, from inside the cab (fig.3/C Pos.”D”).



(fig.3/C)

REAR WINDOW

(fig.4/C)

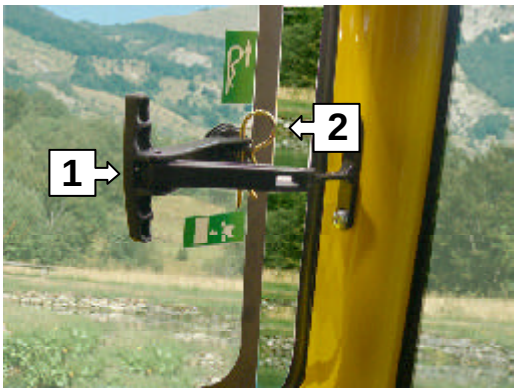
To open, pull the handle and push the window outwards (fig.4/C Pos.”1”), the window will be kept open by the handle.

EMERGENCY ESCAPE

(fig.4/C)

The emergency escape is from the rear window and is clearly identified: slide the locking device out to completely open the window in the case of need (fig.4/C Pos.”2”). The locking device must always be positioned as illustrated during normal work conditions.

- ATTENTION:
Never open the window completely, hazard of getting cut by the telescopic boom.

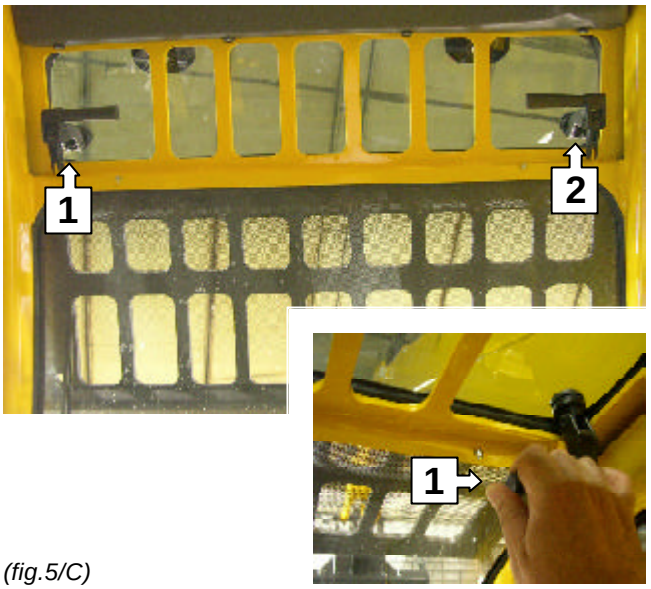


(fig.4/C)

- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

HATCHWAY IN THE ROOF
(fig.5/C)

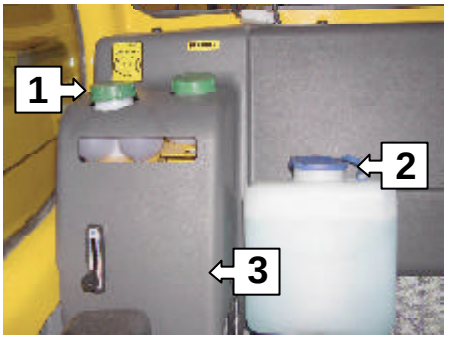
To open the hatchway, get hold of the handle (fig.5/C Pos.”1” and “2”), turning it at the same time; the little window is blocked open when the handles are turned completely; turn in the opposite direction to close.



(fig.5/C)

LIQUID TANKS
(fig.6/C)

Behind the seat on the right-hand side (fig.6/C).
Brake oil tank (fig.6/C Pos.”1”).
Front/rear windscreen wiper water tank (fig.6/C Pos.”2”).



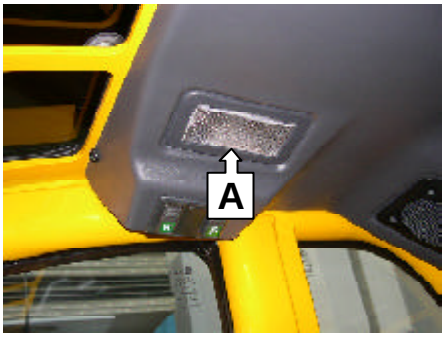
(fig.6/C)

HEATING
(fig.6/C)

Heat regulator inside the cab (fig.6/C Pos.”3”).
With the fan running, move the little lever up or down (fig.6/C Pos.”3”) to adjust the heat inside the cab: move the little lever towards the “red” part of the scale to raise the temperature and towards the “blue” part to lower the temperature nearer to the outside temperature.

INTERNAL CAB LIGHT
(fig.7/C)

Press the edge of the light to turn the internal lighting on (fig.7/C Pos.”A”), press the opposite edge to turn it off.

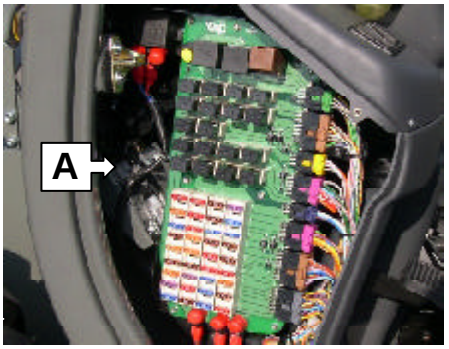


(fig.7/C)

CPU RELAY FUSES
(fig.8/C)

The relay fuses are installed on one single base on the left-hand side of the dashboard (fig.8/C Pos.”A”) inside the cab. The cpu can only be accessed after disassembling the protection panel.

- **ATTENTION**:
Use fuses of the same Ampere rating when replacing blown fuses.

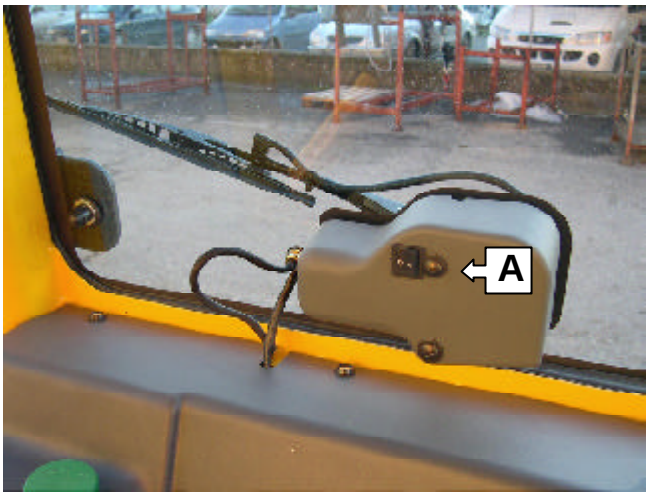


(fig.8/C)

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REAR WINDSCREEN WIPER CONTROLS
(fig.9/C)

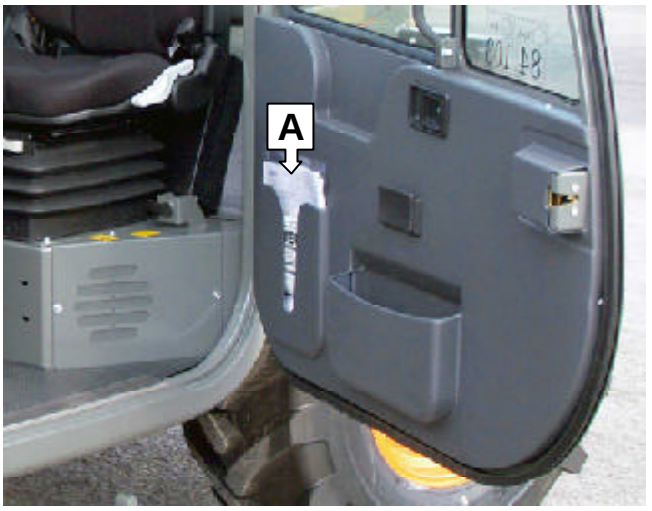
The rear windows is equipped with wipers which can be activated using the push buttons (fig.9/C Pos.”A”). Replace the wiper blades when they are worn. Worn blades may obstruct vision and scratch the glass.



(fig.9/C)

TECHNICAL DOCUMENTATION POCKET
(fig.10/C)

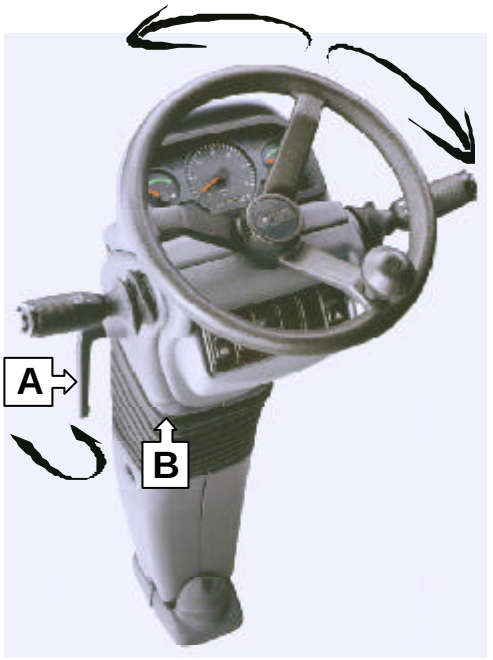
- ATTENTION:
The operation manual and the spare parts catalogue are an integrating part of the vehicle and must follow it also when it is sold to a new proprietor. The manual must be carefully preserved and be aboard the vehicle (fig.10/C Pos.”A”) for a quick reference; if the manual gets creased, damaged or cannot be read replace it immediately.



(fig.10/C)

STEERING WHEEL
(fig.11/C)

Adjustement:
The steering wheel is equipped with a lever allowing its tilting and adjustment (fig.11/C Pos.”A”). To adjust unscrew and adjust to the required angle, screw tight to block the position. Should the lever (in the block position) hinder the operator manoeuvres, it is possible to rotate it by pulling it leftwards (fig.11/C Pos.”B”).



(fig.11/C)

- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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SEAT
(fig.12/C)

ADJUSTING THE SEAT

Adjust the seat according to your weight and height.

Weight adjustment

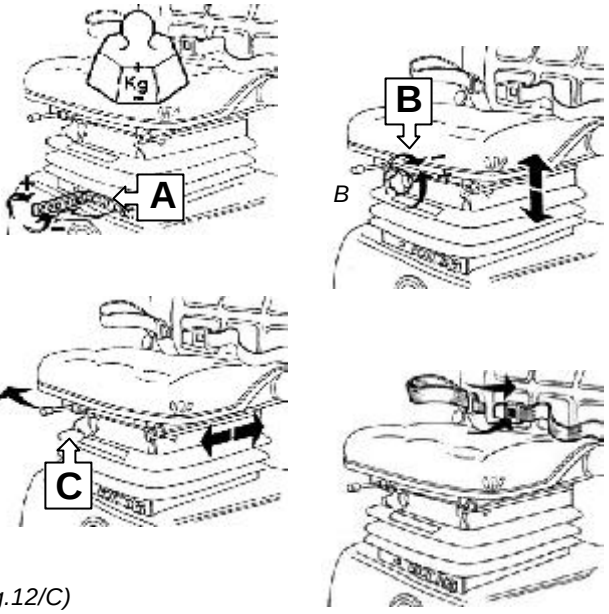
It is important that you adjust the suspension of the seat according to your weight and height. This will ensure the maximum comfort while driving.
Weight adjustment: Adjustment can cover a range of weights from 50 to 120 Kg. Turn the knob "**A**" (fig.12/C) clockwise (+) to adjust the seat to a heavier weight, turn it anticlockwise (-) for less weight.

Height adjustment

Height adjustment: turn the knob "**B**" (fig.12/C) clockwise to lower the seat and anticlockwise to raise it.

Adjusting the seat forwards-backwards

Adjusting the seat forwards-backwards : shift lever "**C**" (fig.12/C) to the outside, slide the seat FORWARD and BACKWARD, until it's in the position desired, the release the lever. Make sure that the seat is locked in position.



(fig.12/C)

- **WARNING**: The seat is equipped with a presence sensor and the engine can only be started up when the operator is correctly seated in the driver's seat and the forwards/backwards lever is in the neutral position "**N**".

SEAT-BELTS

Fastening your seat-belt (fig.13/C)

In order to fasten your seat-belt, you should:

1. Slide the tab (1) into the buckle (2) (ill."A").
2. Make sure this has clicked in properly, then adjust the fit of the belt around your body (ill."B").

- **WARNING**:
The belt has been correctly adjusted when it fits tightly around your waist.

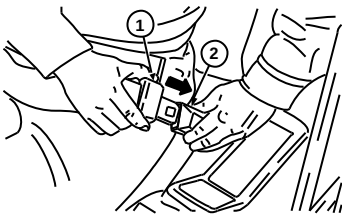
Unfasten your seat-belt (fig.13/C)

In order to unfasten your seat-belt, you should (ill."B"):

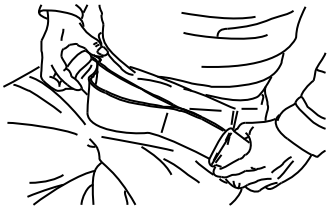
1. Press the red button (3) on the buckle (2).
2. Slide the tab out (1).

- **WARNING**:
Always fasten your seat-belt. Driving without a seat-belt on, increases the risk of accidents.

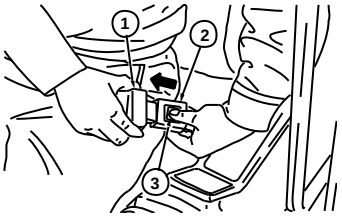
"A"



"B"



"C"



(fig.13/C)

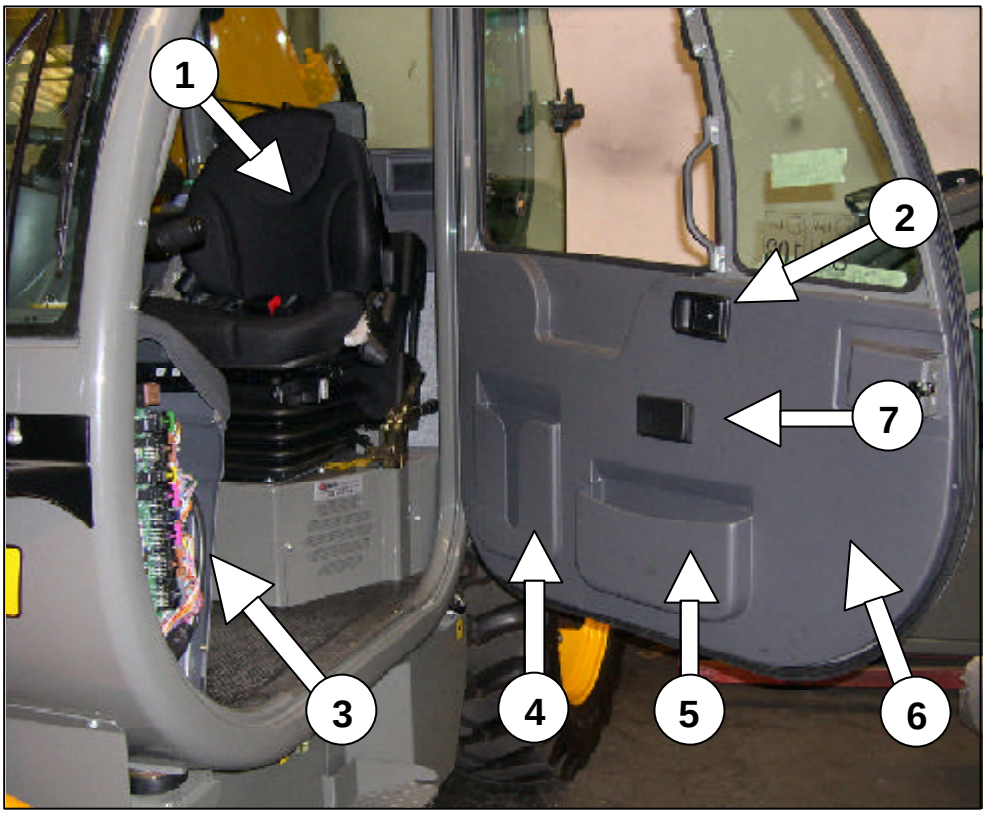
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CAB (INSTRUMENT CAB INTERIOR)

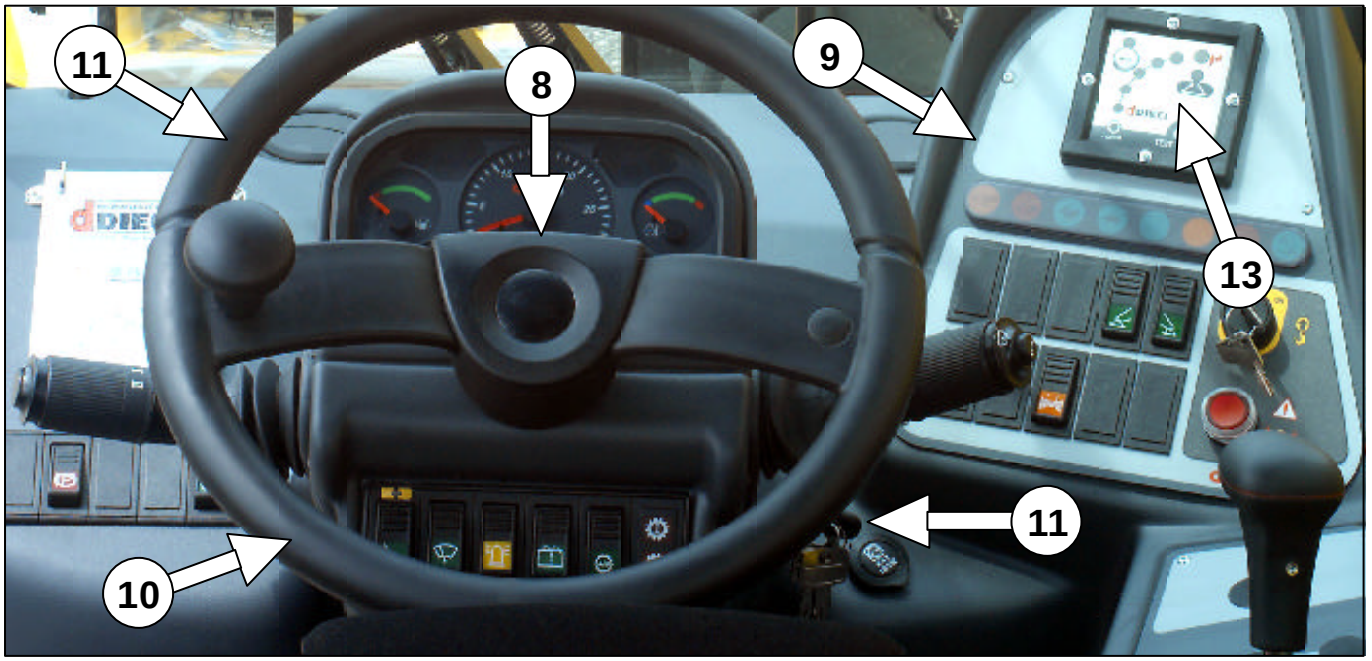
(fig.14/C, 15/C)

Instruments

1 - Seat
2 - Door handle
3 - Electrical compartment (fuse box)
4 - Document pocket
5 - Tool pocket
6 - Door
7 - Ash tray



(fig.14/C)



(fig.15/C)

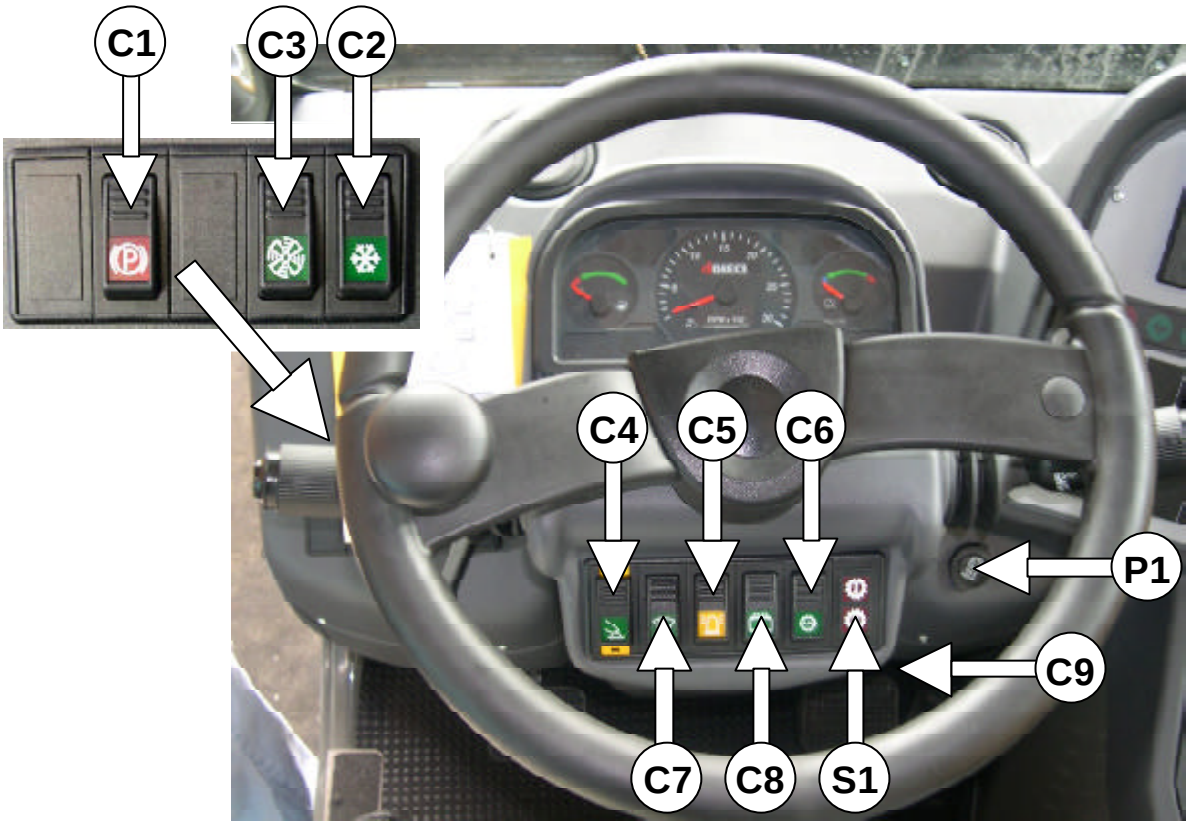
8 - Adjustable steering column with central dashboard
9 - Right-hand dashboard
10 - Steering wheel adjustment lever
11 - Steering wheel
12 - Ignition key
13 - Load monitoring display

- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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DASHBOARD (Electrical control, leds and levers)

(fig.16/C)



(fig.16/C) ELECTRICAL ENABLING SWITCHES

C 1 — **Parking brake enabling switch (red) (where present)**

C 2 — **Air conditioning enabling switch (optional) See CHAP G**

C 3 — **Internal cab fan enabling switch (green)**

C 4 — **Outriggers enabling switch (green). Used together with controls having the same symbol on the side dashboard. See page C/19**

C 5 — **Rotating beacon enabling switch (yellow)**

C 6 — **Fast/slow drive selector switch enabling switch (green)**

Front windscreen wiper enabling switch (green) — C 7

Rear windscreen wiper spray enabling switch (green) — C 8

Emergency lights enabling switch (red) — C 9

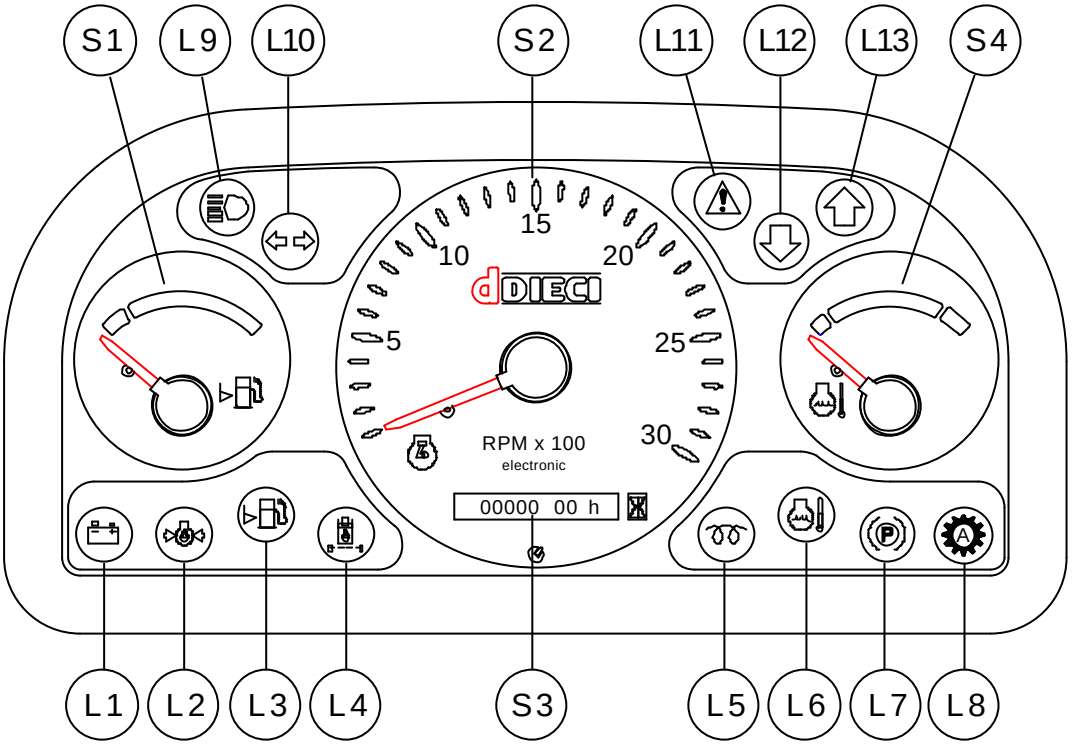
Supplementary electric switch — P 1

Mechanical drive selected LED (red) — S 1

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CENTRAL DASHBOARD (Leds/Instruments)

(fig.17/C)



(fig.17/C)

L 1 — **Generator LED (red)**

L 2 — **Engine oil pressure LED (red)**

L 3 — **Fuel reserve LED (yellow)**

L 4 — **Hydraulic oil filter LED (red)**

L 5 — **Spark plug pre-heating LED (yellow)**

L 6 — **Engine water temperature LED (red)**

L 7 — **Parking brake LED (red)**

L 8 — **Mechanical drive selected LED (green)**

L 9 — **High beam LED (blue)**

Indicator LED (green) — L10

Emergency LED (red) — L11

Reverse gear LED (Green) — L12

Forward gear LED (green) — L13

Fuel level indicator instrument — S 1

Rpm. instrument — S 2

Hour meter instrument — S 3

Engine coolant instrument — S 4

L - SYMBOL and LED COLOUR ONLY VISIBLE IF LIT

- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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RIGHT-HAND SIDE DASHBOARD
complete with optional (LEDS -CONTROLS)
(fig.18/C)



(fig.18/C)

A **Rear power take-off enabling switch (Optional for Farming machines). See CHAP G**

B **Trailer SV-lower tipper enabling switch (Optional for farming machines).**

C **Rear axle oscillation block enabling signal (Optional)**

D **Front LH outrigger enabling switch (green) (Optional). See page C/19**

E **Front RH outrigger enabling switch (green) (Optional). See page C/19**

F **Rear hydraulic power take-off enabling switch for remote controls (Optional Farming machines). See CHAP G**

G **Equipment on boom head movement SV enabling switch (Optional). See CHAP G**

H **Front differential axle levelling enabling switch (Optional) See page C/18**

I **Wheel alignment LED (Optional) (green) See CHAP G**

L **Wheel alignment enabling switch (Optional) See CHAP G**

M **Fuel heating enabling switch (Optional)**

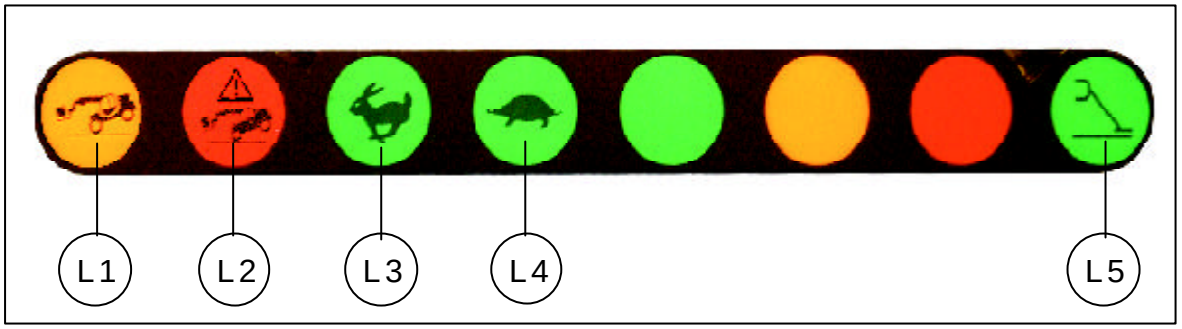
N **Anti-tipping device enabling key See page C/20**

O **Alarm rest button See page C/20**

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RIGHT-HAND SIDE DASHBOARD (LEDS)

(fig.19/C)



(fig.19/C)

L 1 **LED - Anti-tipping system Pre-alarm (orange)**

L 2 **LED - Anti-tipping system Alarm (red)**

L 3 **LED - Fast hydraulic drive enabled (green) Only with aspirated engine.**

LED - slow hydraulic drive enabled (green) Only with aspirated engine L 4

LED - outriggers completely lowered (green) - Where installed L 5

- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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PEDALS and LEVERS



(fig.20/C)

(fig.21/C)

DIRECTION CONTROL LEVER
forward/ neutral/ reverse/horn
(fig.20/C)

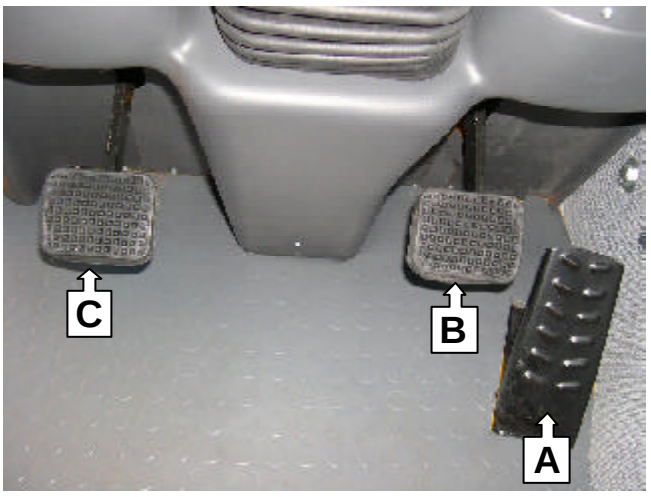
Located on the left of the steering wheel, this lever allows you to change direction and to sound the horn.
Push the lever forwards to engage driving gear and pull it back towards you to engage reverse gear.

The hydraulic gear selection command (operated by turning the knob) (**I-II**) is not activated on machines with turbo diesel engines

DIRECTION INDICATOR LEVER
light change switch / front windscreen wiper
(fig.21/C)

Located on the right of the steering wheel.
The corrisponding pilot lights indicate correct functioning.

- Accelerator pedal (fig.22/C Pos.”A”)
- Service brake pedal (fig.22/C Pos.”B”)
- "INCHING” pedal (fig.22/C Pos.”C”)



(fig.22/C)

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"OPERATIONAL" BUTTONS AND SWITCHES



(fig.23/C)

STARTER SWITCH
(fig.23/C Pos."1" - fig.24/C)

The starter switch with key is used to:

A - start the diesel engine.

B - automatically enable the parking brake (turned off; fig.24/C Pos."C1") (where present).

C - automatically release the parking brake with the diesel engine running and key in position (fig.24/C Pos."C2") (where present).

D - activate the thermal-starter (Optional) fig.24/C Pos."T".

1° with the key in position "O" (fig.24/C Pos."C1") the electric controls are not electrically powered, the engine is off and the parking brake is enabled.

2° by turning the starter key clockwise to"pos. "**I**" (fig.24/C Pos."C2") the following LEDS and controls are turned on and enabled:

- Acoustic indicator when the key is inserted.
- Engine oil pressure LED lit.
- Battery charger LED lit.
- Insufficient pressure in accumulator of parking brake LED lit.
- Load monitoring display on.

If this is not the case, do not start but consult the "Maintenance" chapter of this manual.

- **ATTENTION**: The automatic parking brake is released when the engine is running.

- General alarm LED.

The following light up, then switch off:

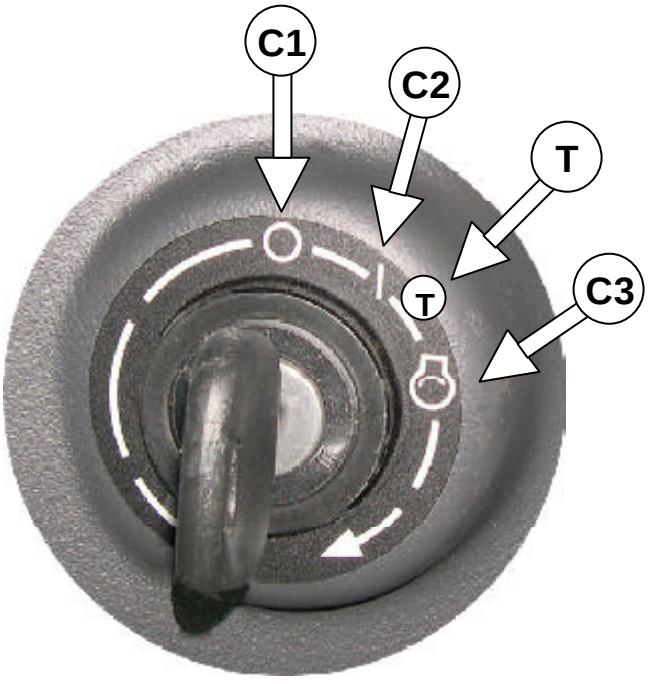
- Hydraulic oil filter LED.
- Emergency LED.
- Engine water temperature LED.
- Mechanical drive enabled LED.
- Engine oil pressure.

3°- By turning the starter key clockwise to Pos."C3" fig.24/C the engine is started.

- Release the key once the engine starts.
- The LEDS should switch off once the engine is running.
- Do not keep the starter key turned (fig.24/C Pos."C3") for more than 5 seconds.
- Wait at least 15 seconds between each starting attempt.

4°- By turning the starter key clockwise to the intermediary positoin (fig.24/C Pos."T") the thermal-starter is activated (Optional).

- When the key is turned to pos."T" (fig.24/C Pos."T") you can activate the thermal-starter to make it easier to start the engine in cold weather (Temperature below -5°).
- The key is to be held in this position for roughly 15".



(fig.24/C)

- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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Control lever for arm movements
(fig.25/C Pos.”1”)

This lever is located on the right hand side of the operator and serves to totally control manoeuvring of the arm and the extremity.

Control lever for attachments or accessories
(fig.25/C Pos.”2”)

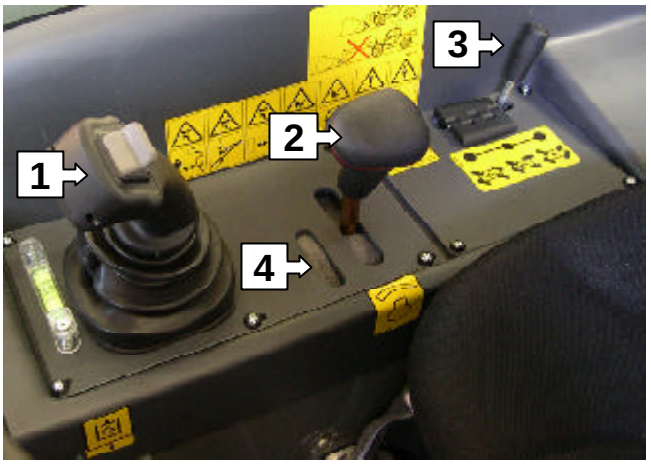
This lever is located on the right hand side of the operator and serves to control movements of the accessories mounted on the arm and on the rear (rear only for agricultural vehicles).

Control lever to select steering
(fig.25/C Pos.”3”)

This lever is located on the right hand side of the operator and with this you can select 3 types of steering.

(optional) Lever to recover the passenger conveying basket in an emergency
(fig.25/C Pos.”4”)

See the chapter accessori es and optionals “passengre conveying basket ”.



(fig.25/C)

INFORMATION DATA PLATES AND SAFETY STICKERS

INDICATIONS FOR MANOEUVRES

The illustration alongside shows the data plates present in the vicinity of the driver’s seat. These should always be kept in good condition and should be replaced when no longer legible.

The main safety regulations are listed on the data plates alongside the steering wheel (fig.26/C Pos.”1”).

The information covers:

- ROAD CIRCULATION
- MAIN SAFETY REGULATIONS
- JOYSTICK CONTROLS
- DIAGRAM OF CARRYING CAPACITIES
- TYRE INFLATION PRESSURE



(fig.26/C)

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CONTROL LEVERS “USE”

FORWARD / REVERSE SELECTION LEVER

This lever "**D**" (fig.27/C) allows you to change direction. The indicator lights which indicate the direction in which the vehicle is travelling light up on the instrument panel. If the indicator lights are off, then the vehicle is in neutral. If you keep the lever in neutral Pos."**N**", the gear is idle and the vehicle is partially braked .

Joystick "**D**" (fig.28/C): is activated on vehicles with a suction engine. (For vehicles with a turbo engine, the change is made automatically and the control is deactivated).

- Turning the lever to (Pos."I") (fig.28/C) the hydraulic lower gear is engaged.
- Turning the lever to (Pos."II") (fig.28/C) the hydraulic fast gear is engaged. (A luminous light (fig.19/C Pos.L3 Pag.C/12) indicates that the gear is correctlyengaged).

⚠ - **ATTENTION**:
in order to engage the FORWARD/REVERSE, you have to first move the lever upwards, due to a system for preventing accidental movements.

- Moving the lever to position “**F**” the FORWARD gear is engaged (fig.28/C).
- Moving the lever to position “**R**” the REVERSE gear is engaged (fig.28/C).
- Pressing the lever “**C**” sounds the horn (fig.28/C).

⚠ - **ATTENTION**:
it is dangerous to use the gear selecting lever forward/ reverse when the engine is revved up: the vehicle , in fact, changes direction suddenly.

When reverse is engaged, an acoustic and visible alarm will be set off . The engine can be activated only if the lever is in the neutral position "**N**" and the operator is seated correctly in the driver’s seat.

Procedure for changing direction:

- Reduce engine speed to a minimum.
- Select the new direction.

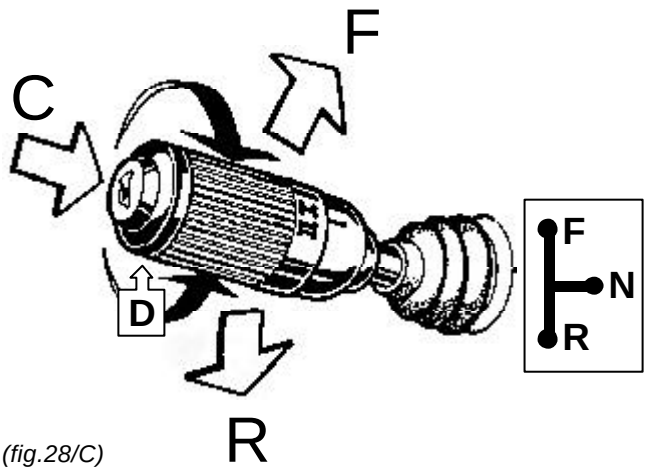
If the speed control lever forward/reverse is positioned on a selection other than neutral, with the parking brake engaged, the hydrostatic transmission will not be activated.

⚠ - **ATTENTION**:
The lever movements are not active when:

1° The hand brake is on
2° The operator is not correctly seated in the driver’s seat.
3° If the vehicle is equipped with the passenger conveying basket and the “vehicle functions” selector is positioned on “basket”, with the basket mounted and the electric plug plugged into the socket on the boom head.
“A” the basket is raised up from the ground.
“B” the boom is even partially extended.



(fig.27/C)



(fig.28/C)

⚠ - ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

MECHANICAL GEAR DRIVE ENABLING SWITCH
(fig.29/C Pos."2-3")

Using this control (fig.29/C Pos."1") you operate the 2-speed mechanical gear.

To change gear, completely stop the vehicle, press the inching pedal, press the enabling switch:

- down to engage fast gear ("**II**")for driving on the road (the LED lights up fig.29/C Pos."2").
- up to engage slow gear ("**I**") when working in the site (the LED lights up fig.29/C Pos."3")

⚠ - **ATTENTION**: **never try to change gear when the vehicle is in movement**



(fig.29/C)

DIRECTION INDICATING LEVER
LIGHT SWITCH
FRONT WINDSCREEN WASHER SWITCH
(fig.30/C)

The lever to the right of the steering wheel is used to activate:

A - Direction indicators
Pull the lever towards you when turning right and away from you to turn left. The indicators only work if the starter switch is enabled. The corresponding LEDs indicate when the operation is correct.

B - Projectors
Activate the projectors and the side lights:

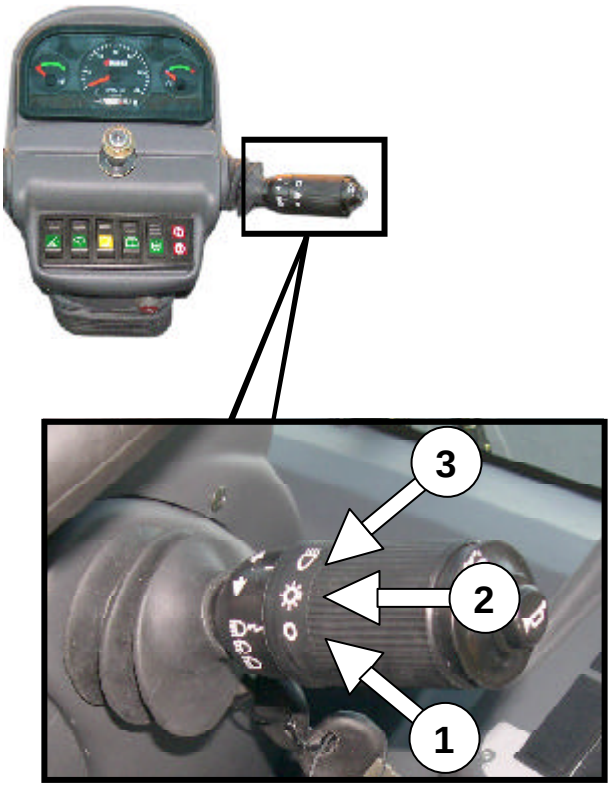
Turn the knob to turn the lights on the symbol on the knob, relative to the arrow, indicates that the lights are:

1° - Off. (fig.30/C Pos."1")
2° - Side lights on. (fig.30/C Pos."2")
3° - Headlights on. (fig.30/C Pos."3")

The full beam is activated by pushing the lever down.

C - The button at the end of the knob activates the horn.

D - The intermediary button in the knob activates the front wipers.

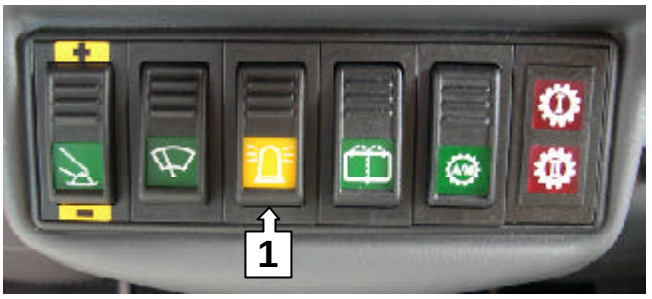


(fig.30/C)

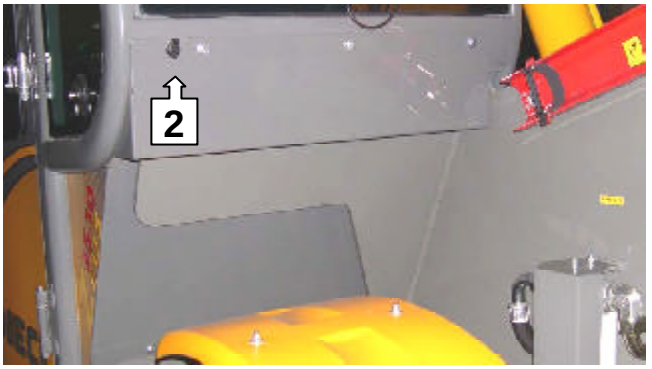
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REVOLVING LIGHT SWITCH (yellow)

Connect the beacon to the connector at the back of the driver's cab (fig.32/C Pos."2") and position the beacon above it. To activate the beacon, use the relative enabling switch (fig.31/C Pos."1"). The revolving light must always be kept on, both in building sites and when driving on public roads.



(fig.31/C)



(fig.32/C)

SWITCH TO LEVEL FRONT DIFFERENTIAL AXLE (where present)

(fig.33/C Pos."1")

If the switch is pressed forwards or backwards the vehicle can be levelled sideways according to requirements. When the vehicle has been levelled, it is possible to use the vehicle without using the stabilizing feet, see the capacity graphs. Use of the accessory is advisable when lifting loads on surfaces that are not perfectly even.

- **ATTENTION**:
ONLY OPERATE THE CONTROL WHEN THE ENGINE IS RUNNING IDLE.

SWITCH 2 WAY SOLENOID VALVE BOOM HEAD OR BOOM HEAD EQUIPMENT CONTROLS ENABLING SWITCH

(fig.33/C Pos."2")

- ATTENTION: FOR AGRICULTURAL VEHICLES SEE CHAPTER "G" OPTIONALS AND ATTACHMENTS.

Press the enabling switch to control the equipment directly from the driver's seat; this equipment needs a supplementary hydraulic control to work, for example: cement mixers.



(fig.33/C)

- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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STABILIZERS

VEHICLE WITH STANDARD STABILIZING FEET

The stabilizers are activated by the side push buttons (fig.34/C Pos."1" at the same time as the push buttons for the desired foot (fig.35/C Pos."2" or Pos."3").

- Push button(1) + push button(2A) = raises front left foot
- Push button(1) + push button(2B) = lowers front left foot
- Push button(1) + push button(3A) = raises front right foot
- Push button(1) + push button(3B) = lowers front right foot
- The "Feet lowered" indicator points out that the outrigger feet are positioned correctly (fig.35/C Pos."4")

⚠ - **ATTENTION**:
ONLY OPERATE THE CONTROL WHEN THE ENGINE IS RUNNING IDLE.

⚠ - **ATTENTION**:
To operate in absolute safety the vehicle should be positioned on a level surface. (Max. tilt allowed 2°)

The spirit level is located on the right hand side dashboard, behind the telescopic arm joy stick.
(fig.36/C Pos."1").



Correct position of the vehicle on standard stabilizers



(fig.34/C)



(fig.35/C)



(fig.36/C)

N.B.: the spirit levels shown are only an indication and may not correspond to those parts mounted on your vehicle.

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ANTITIPPING DEVICE

(fig.37/C e fig.38/C)

⚠ - **ATTENTION**: It is obligatory to enable this device when the machine is used as an elevator (key selector switch turned **ON** - fig.37/C Pos."1").

When turned on, the device performs an automatic test, lighting up all the LEDS and emitting an acoustic signal. When LED **A** (fig.38/C) lights up, it means that the device is powered; if this does not occur, contact the Assistance Service of DIECI immediately.
The device detects the longitudinal stability of the machine by measuring the residue load on the rear axle, bearing in mind a safety margin compared to the actual longitudinal tipping condition.

A set of 6 LEDS (fig.38/C Pos."**S**") accompanied by an acoustic indicator points out the real working condition compared to the limit condition:

- Green LED without an acoustic signal: normal working conditions;
- Yellow LED with intermittent acoustic alarm: pre-alarm condition;
- Red LED with continuous acoustic alarm: limit tipping load.

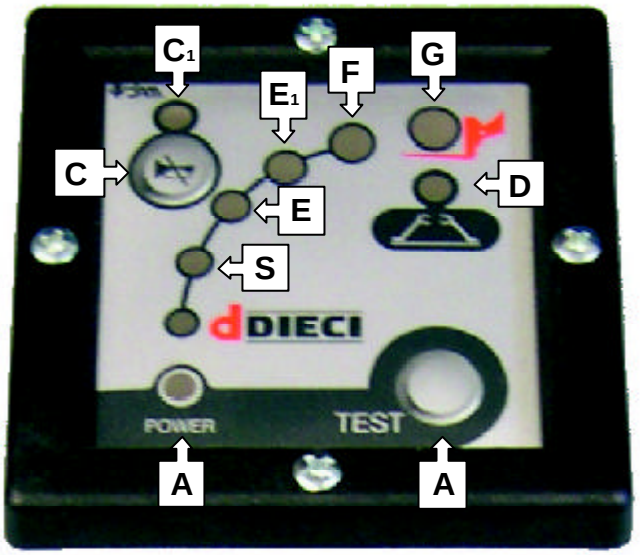
When the last LED lights up, the alarm cut-out button is activated (fig.37/C Pos."**2**") and its red LED lights up. Once the limit load is reached (the last LED lights up) (fig.38/C Pos."**G**") the device blocks all machine movements, to prevent exceeding the critical condition any further and to allow the operator to perform the emergency procedures; press the alarm reset button (fig.37/C Pos."**2**") and retract or raise the boom until normal working conditions are restored. The alarm stops once normal conditions are restored.

This procedure must only be performed by responsible and adquately trained personnel.

Using the MUTE (fig.38/C Pos."**C**") you can disable the acoustic signals; this condition is pointed out by the relative yellow LED (fig.38/C Pos."**C_1**"). The acoustic indicator is automatically reset each time the machine is turned on or each time the limit stability condition is reached. In the case of anomalies in the system (pointed out by the fact that all the LEDS start to flash accompanied by a persistant acoustic signal) you can diagnose the device by pressing the TEST (fig.38/C Pos."**B**"); this procedure allows you to view the type of fault through the codified switching on of the set of LEDs (to quickly find out the type of fault, tell the Assistance Service of DIECI in which sequence the LEDs light up). Once the problem has been resolved, the system can be reset for normal working conditions exclusively by turning the machine off and on again.
With the anti-tipping device activated and the key selector turned ON, you can extract the key (fig.37/C Pos."**1**") to prevent the safety system from being intentionally or accidentally disabled, if not via the dedicated button (fig.37/C Pos."**2**").



(fig.37/C)



(fig.38/C)

⚠ - ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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VEHICLE FUNCTION SELECTOR (OPTIONAL)
(fig.39/C)

Material handling
(fig.39/C pos."B" forks symbol)

Combined equipment:
Forks, buckets, cement mixers, sieves.

Material handling
(fig.39/C pos."C" winch symbol)

Combined equipment:
Plate with lifting hook, winch, jibs, jibs with winch.

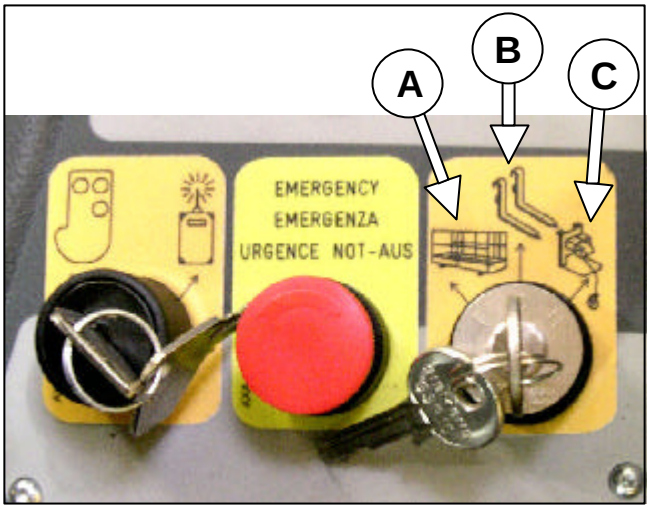
People elevator
(fig.39/C pos."A" people carrier basket symbol)

Combined equipment:
all people carrier baskets.

The equipment applicable to these machines refer to the price list of dieci.

- **ATTENTION**:
equipment different to that offered by the manufacturer "dieci" is not admitted.

- **ATTENTION**:
when using the basket, you must only use position "c" in the case of emergency to lower the operators back down to the ground. see the accessories and optional units chapter for instructions on the equipment (chapter "G").



(fig.39/C)

EXTENSOMETRIC LOAD LIMITER (OPTIONAL)
(fig.40/C)

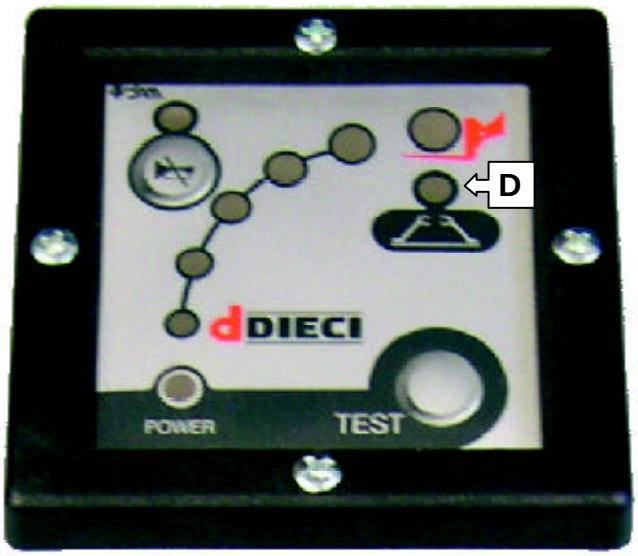
- **ATTENTION**: It is obligatory to enable this device when the machine is used as an elevator (key selector switch turned **ON** - fig.40/C Pos."1").

This load restrictor prevents dangerous overloads in terms of the efficiency and safety of the machine, especially with the outrigger feet lowered. The device detects any bending of the structure and activates the set of LEDs on the display in the driver's cab. Refer to the previous "Anti-tipping device" chapter for instructions on how the set of LEDs works.

When the outrigger feet are lowered after having positIoned them correctly (see "correct feet positioning" LED, fig.40/C Pos."L") the "feet lowered" LED lights up (LED D fig.41/C) and the load restrictor is activated. Once the limit load is reached, the device blocks all machine movements, just like the anti-tipping device. To restore normal working conditions, press the reset alarm button (fig.40/C Pos."2") and retract or raise the boom until the acoustic indicator silences. This procedure must be carried out by responsible and adequately trained personnel.



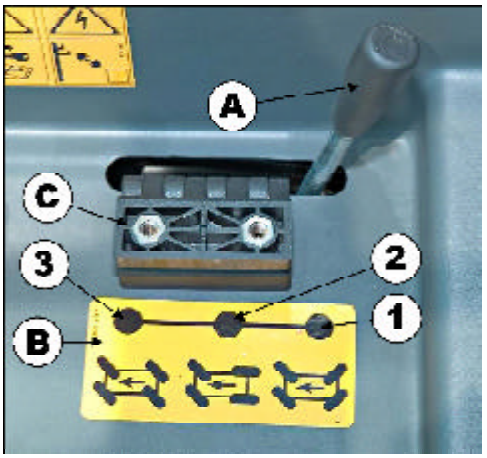
(fig.40/C)



(fig.41/C)

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STEERING CONTROL LEVER
(fig.42/C)



(fig.42/C)

⚠ - **ATTENTION**:
before selecting a new steering mode, the wheels must first be aligned by following the instructions in the previous section. Steering must always be selected with the machine stationary.

⚠ - **ATTENTION:**
With this lever, 3 types of steering can be obtained.
Steering must be selected with the vehicle at a halt.

1 - Radial steering:
this type of steering allows for maximum steering to the right (fig.43/C) and left (fig.44/C), and is the obbligatory mode when driving on roads.

To activate radial steering, move the lever "**A**"(fig.42/C) to position "**1**" shown on the steering mode "**B**" panel (fig.42/C).



(fig.43/C) Maximum right turn

2 - Normal steering:
this option allows for normal steering (front wheel drive only).

To activate normal steering mode shift lever "**A**" (fig.42/C) to position "**2**" shown on the steering mode "**B**" panel (fig.42/C).



(fig.44/C) Maximum left turn

3 - Crawl steering:
this option allows for crawl steering (fig.42/C) (parallel front and rear wheels: lateral shift of the machine).

To activate crawl steering (fig.45/C), shift the "**A**" lever to position "**3**" shown on the steering mode "**B**" panel (fig.42/C).



(fig.45/C) Move side right

⚠ - **ATTENTION**: **when driving on public roads, the sttering must be used in Pos."1"** (fig.42/C) **blocked with the with the special lock** (Pos."C" fig.42/C)**.**

⚠ - ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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FRONT AND REAR WHEEL ALIGNMENT

Introduction: Wheel alignment must always be performed before selecting a new steering mode, and always with the machine stationary.

Alignement (standard):

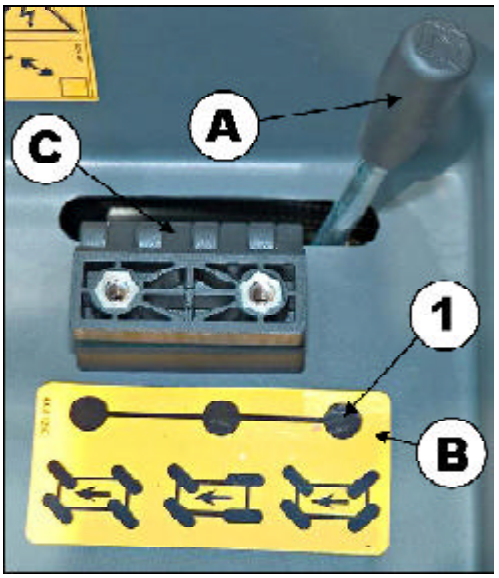
1) Move the selector "**A**" (fig.46/C) to position "**1**" shown on the "steering functions" panel "**B**" (fig.46/C);

2) Turn the steering, watching the rear wheels until they are aligned perfectly straight;

3) Move the selector "**A**" (fig.47/C) to position "**2**" shown on the "steering functions" panel "**B**" (fig.47/C);

4) Turn the steering, watching the front wheels, until they are aligned perfectly straight;

5) At this point the front and rear wheels are aligned and the desired steering mode can be selected: radial, normal, or crawl.



(fig.46/C)

Assisted wheel alignament (optionals):

1) Move the selector "**A**" to position "**1**" (fig.47/C);

2) Press button "**B**" downwards and keep pressed (fig.48/C) to activate wheel alignment;

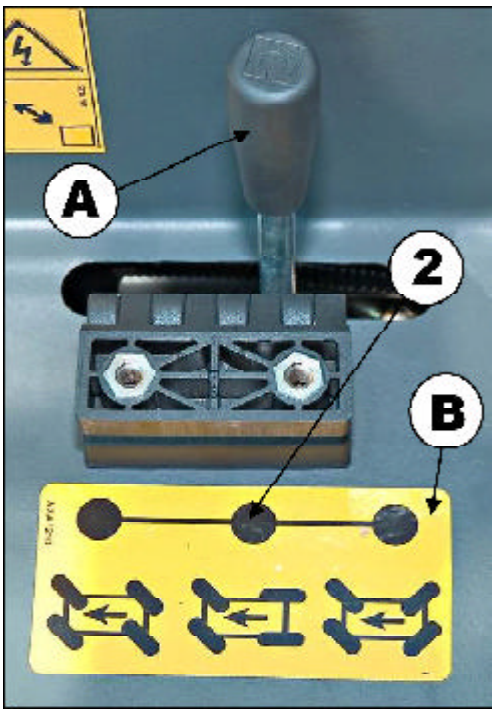
3) Turn the steering to straighten the rear wheels until the led "**C**" (fig.48/C) lights up (rear wheel alignment led);

4) Move the selector "**A**" to position "**2**" (fig. 1);

5) Press button "B" upwards and keep pressed (fig. 3) to activate wheel alignment;

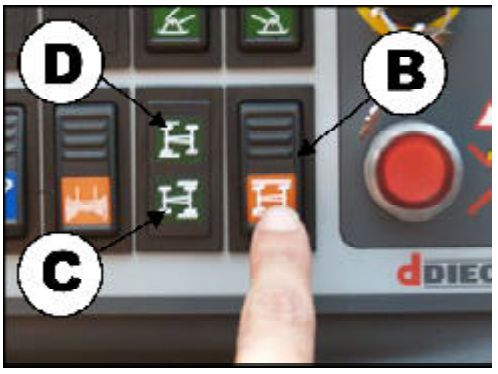
6) Turn the steering to straighten the front wheels until the led "**D**" (fig.48/C) lights up (front wheel alignment);

7) At this point the front and rear wheels are aligned and the desired steering mode can be selected: radial, normal, or crawl.



(fig.47/C)

Note:
PERIODICALLY TO EFFECT THE ALIGNMENT OF THE WHEELS (8-10 HOURS) IF WE ARE GOING TO USE THE MACHINE FOR A LONG TIME.



(fig.48/C)

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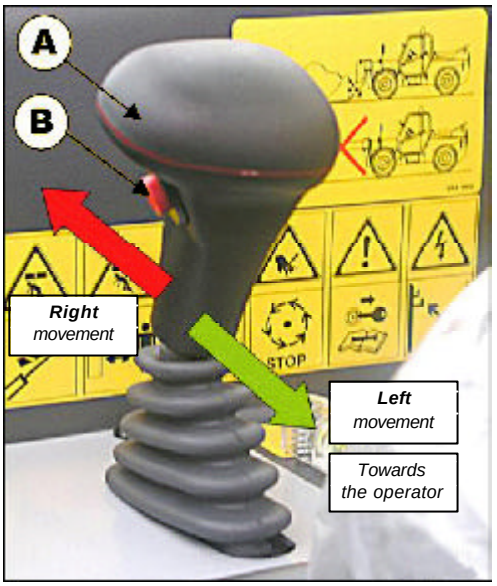
TRANSFER AND EQUIPMENT MOVEMENT CONTROL LEVER
(fig.49/C)

Hold the Joystick "**A**", keeping the action lever "**B**" (fig.49/C) pressed, and move it to towards:

1) The right to move the arm to the right (fig.49/C e fig.50/C);

2) The left to move the arm to the left (fig.49/C e fig.50/C).

Note:
The joystick "A" is the type found when the arm is controlled by the 3 in 1 joystick.

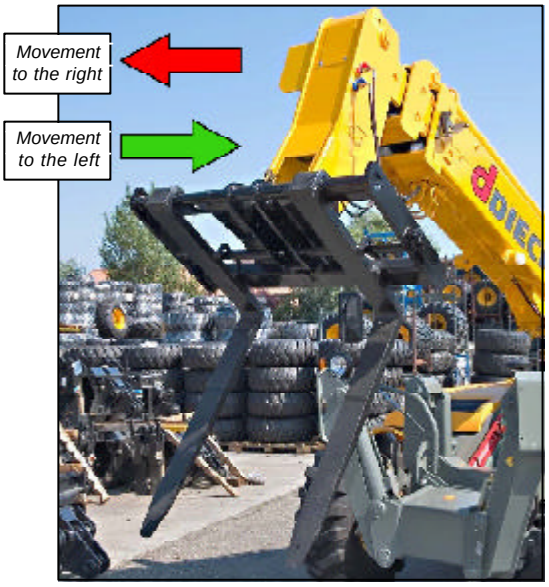


(fig.49/C)

⚠ - **ATTENTION**:
FOR AGRICULTURAL USE SE CHAPTER "G" "OPTIONALS AND ACCESSORIES"

N.B.: for those vehicles equipped with the rapid attachment device, this lever also allows you to carry out attachment/detachment. In addition, it gives hydraulic control of the attachments installed on the arm head (using the hydraulic plug on the arm head).

⚠ - **ATTENTION**:
Strictly observe the regulations written in the logbook when driving the vehicle on the road with equipment fitted.



(fig.50/C)

⚠ - ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

BOOM CONTROL LEVER
(fig.51/C)

3 in 1 proportional contraction Joystick 3
(Standard Versione)

This lever is located on the right of the operator and serves to control the arm and end of the arm completely.

Before each manouvre, press and keep pressed, the action lever "**A**".

Arm movements:

1) Pull the joystick "**B**" backwards to raise the arm;
2) Push the joystick "**B**" forwards to lower the arm;

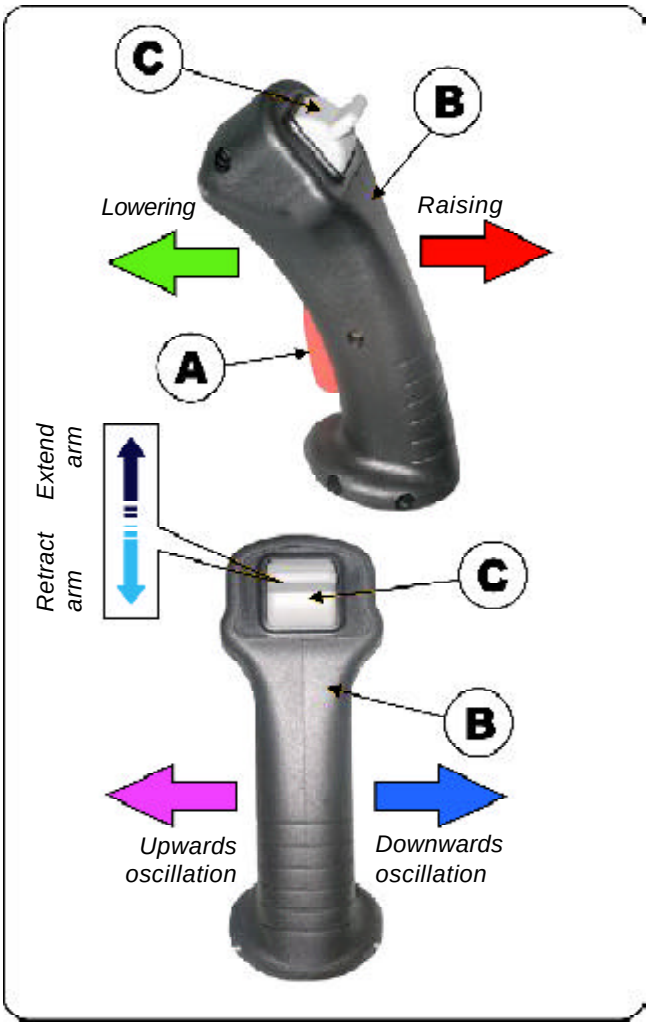
Telescopic movements:

1) Push the lever "**C**" forwards to extend the arm;
2) Push the lever "**C**" backwards to contract the arm;

Note: the speed of extension and retraction is proportional to the shift of the lever "**C**".

Oscillation the tool support frame:

1) Move the joystick "**B**" to the right to oscillate the support frame downwards;
2) Move the joystick "**B**" to the left to oscillate the support frame upwards.



(fig.51/C) Standard version

- ATTENTION:
before activated the arm, make sure the surrounding area is clear. Make sure loads are within the limits shown in the vehicle capacity diagram.

- ATTENTION:
these instructions refer to the standard version at the time of printing of this manual. If special optional units are fitted or if any technical modifications are made, the movements of the levers may correspond to different controls, therefore always refer to the instructions inside the driver's cab whatever the case.

- ATTENTION:
The manufacturer offers a range of boom movement Joysticks with different technical features and different movements compared to the standard version.

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MONO-LEVER 4 IN 1 JOYSTICK WITH ON-OFF TELESCOPIC SWITCH

(fig.52/C)

Arm movements:

1) Pull the joystick "**A**" backwards to raise the arm;
2) Push the joystick "**A**" forwards to lower the arm,

Telescopic movements:

1) Push the red button "**1**" to extend the arm;
2) Push the red button "**2**" to contract the arm;

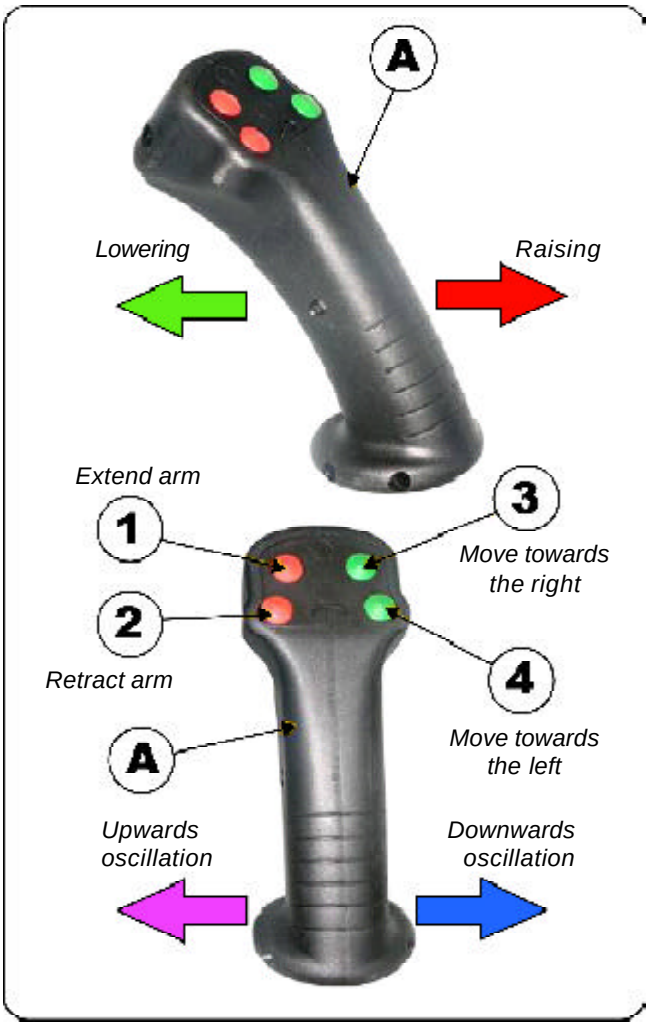
Oscillation the tool support frame:

1) Move the joystick "**A**" to the right to rotate the support frame downwards;
2) Move the joystick "**A**" to the left to rotate the support frame upwards;

Lateral controls:

1) Press the green button "**3**" to oscillate the support frame to the right (fig. 2);
2) Press the green button "**4**" to oscillate the support frame to the left (fig. 2).

NOTE:
when an electro-hydraulic tool is mounted, the buttons "3" and "4" (fig. 2) will have the same functions as the specifications described in the tool's instruction manual.



(fig.52/C) Mono-lever Joystick

- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

4 IN 1 JOYSTICK WITH PROPORTIONAL ON-OFF CONTRACTION SWITCH

(fig.53/C)

Before each movement, press and keep pressed the action lever “A”.

Arm movements:

1) Pull the joystick “**B**” backwards to raise the arm;
2) Push the joystick “**B**” forwards to lower the arm;

Telescopic movements:

1) Push the lever “**C**” forwards to extend the arm;
2) Push the lever “**C**” backwards to contract the arm;

Oscillation the tool support frame:

1) Move the joystick “**B**” to the right to oscillate the support frame downwards;
2) Move the joystick “**B**” to the left to oscillate the support frame upwards.

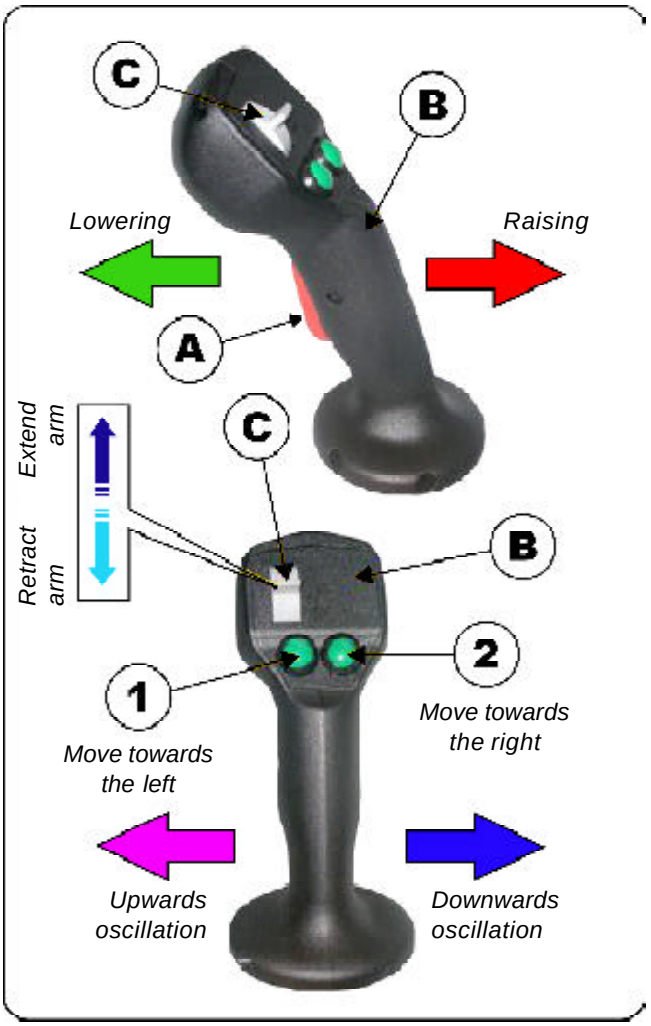
Note: The speed of extension and retraction is proportional to the shift of the lever “**C**”.

Lateral controls:

1) Press the green button “**1**” to translate the support frame to the left;

2)Press the green button “**2**” to translate the support frame to the right.

NOTE: when an electro-hydraulic tool is mounted, the buttons “1” and “2” will have the same functions as the specifications described in the tool’s instruction manual.



(fig.53/C) 4 in 1 Joystick proportional

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DANFOSS JOYSTICK WITH 4 PROPORTIONAL MOVEMENTS

(fig.54/C)

Arm movements:

1) Pull the joystick "**A**" backwards to raise the arm;
2) Push the joystick "**A**" forwards to lower the arm;

Telescopic movements:

1) Rotate the dial "**B**" forwards to extend the arm;
2) Rotate the dial "**B**" backwards to contract the arm;

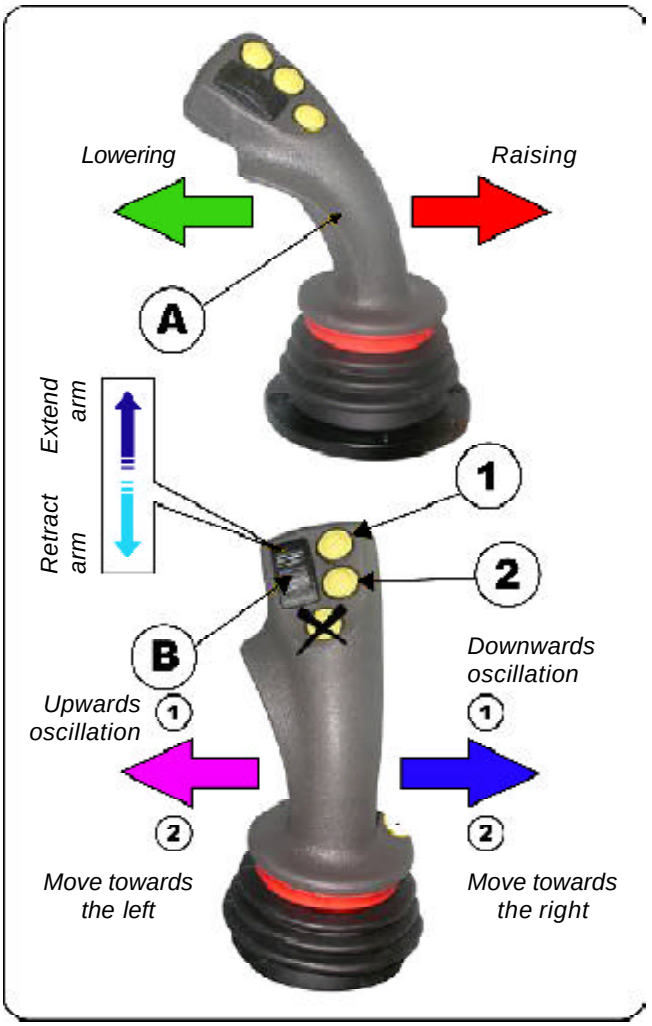
Oscillation the tool support frame:

1) Press button "1" while moving the joystick "**A**" to the right to rotate the support frame downwards;
2) Press button "1" while moving the joystick "**A**" to the left to rotate the support frame upwards.

Lateral controls:

1) Press button "2" while moving the joystick "**A**" to the right to translate the support frame to the right;
2) Press button "2" while moving the joystick "**A**" to the left to translate the support frame to the left.

NOTE: when an electro-hydraulic tool is mounted, the buttons "3" and "4" will have the same functions as the specifications described in the tool's instruction manual.



(fig.54/C) Danfoss Joystick

THE SYMBOLS POINTING OUT THE MOVEMENTS

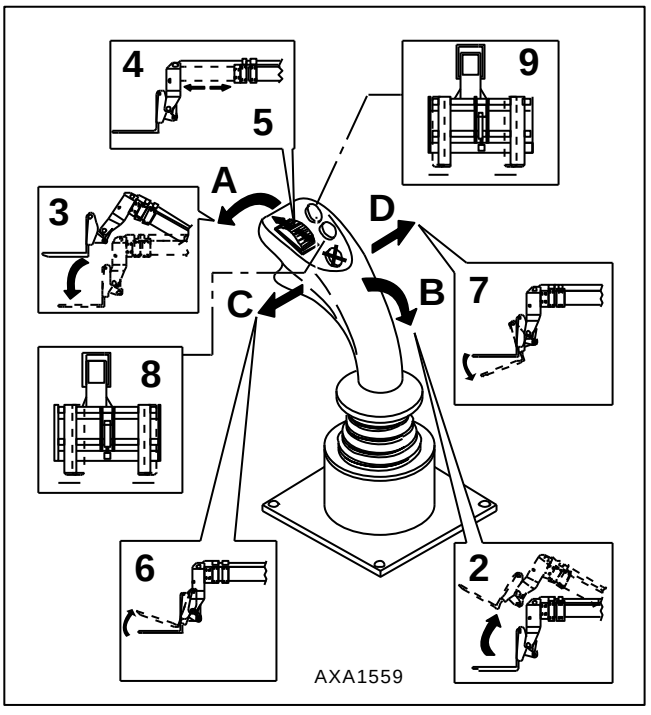
(fig.55/C)

Description of the symbols of the movement/parts of the boom.

1 - LEVER SYMBOL
  - A - LEVER PUSHED FORWARD
  - B - LEVER PUSHED BACK
  - C - LEVER PUSHED TO THE LEFT
  - D - LEVER PUSHED TO THE RIGHT
2 - BOOM UP
3 - BOOM DOWN
4 - RETRACT BOOM
5 - EXTEND BOOM
6 - TURN FORKS UPWARDS.
7 - TURN FORKS DOWNWARDS.
8 - TRANSFER FORKS TO THE RIGHT
(EQUIPMENT-CARRIER BLOCK WITH QUICK-RELEASE COUPLING)
9 - TRANSFER FORKS TO THE LEFT
(EQUIPMENT-CARRIER BLOCK WITH QUICK-RELEASE COUPLING)

(fig.55/C) Movements 4 and 5 are obtained by rolling the roller forwards and backwards. Movements 9 and 8 are obtained by pressing the enabling buttons without moving the lever.

FOR CUSTOMISED VERSIONS, PLEASE SEE CHAPTER "G" OPTIONALS.



(fig.55/C)

- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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PARKING BRAKE (where present)
(fig.56/C)

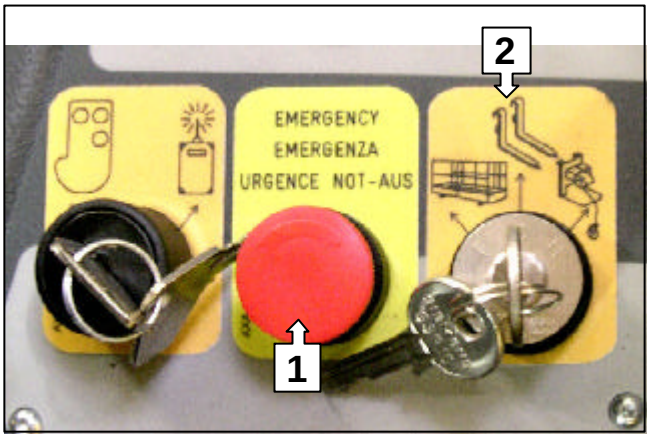
This lever should be used to engage the parking brake every time the vehicle is abandoned. To engage the parking brake, pull the elver upwards; to release it, push the lever back down. When the brake is engaged, a red light comes on on the right hand side of the steering wheel. If the knob is screwed, the control cables can be adjusted. In some models, the PARKING BRAKE LEVER is replaced by a NEGATIVE BRAKE switch (fig.16/C Pos."C1" pag.C/9).



(fig.56/C)

EMERGENCY PUSH BUTTON
(fig.57/C)

Emergency push (fig.57/C Pos."1") button for telescopic elevators with a standard hydraulic distributor. if the push button if held pressed, the arm movements are blocked, to reactivate them, turn the knob in the direction of the arrow punch marked on the knob itself. In case of emergency, to switch the controls over to the joystick in the cab, turn the key to the central forks position (fig.57/C Pos."2").



(fig.57/C)

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- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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USING THE VEHICLE

No matter how much specific experience the operator may have, it is nevertheless essential that he learns the exact location and use of all instruments and controls before using the telescopic handler.

When the contact key is switched on, without switching on the diesel engine, all instruments are automatically checked: all lights come on and an acoustic alarm is set off for a few seconds.

All the instruments on board must be checked immediately once the vehicle is set in motion and when the engine has warmed up and these must be rechecked at regular intervals, so that any possible faults can be detected at once and remedied without delay. If any of the instruments does not appear to be functioning correctly, switch off the engine and take immediate precautionary measures to resume correct functioning.

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STARTING THE VEHICLE

Starting the engine

Before starting the vehicle, do the following:

1° Make sure that the parking brake is applied.

2° Set the speed control lever (fig.60/C Pos."1") to neutral (fig.60/C Pos."2").

3° Remain seated in the driver's seat.

4° Turn the ignition key (fig.58/C Pos."A") clockwise to position "**C2**" (fig.59/C). When the key is in this position, the instrument panel will light up together with the following indicators (if the lamps do not light up, do not carry out the starting procedure and read the "Maintenance" chapter in the present handbook):

- Engine oil pressure warning light.
- Battery charge light.
- Acoustic warning, key inserted (Standard vehicle).

The following LEDs on the Anti-tipping device light up, then switch off:

- Overload pre-alarm.
- Overload alarm.

5° Thermal starter:
Turn the starter key clockwise to the intermediary position (fig.59/C Pos."**T**") to activate the thermal-starter (Optional).

- When the key is turned to "**T**" (fig.59/C Pos."**T**") you can activate the thermal-starter to make it easier to start the engine in cold weather (Temperature below -5°)
- The key is to be held in this position for roughly 15".

6° Turn the ignition key to position "**C3**" (fig.59/C) to get the engine started

7° Once the engine has started, release the key.

8° Do not keep the starter motor running (fig.59/C Pos."**C3**"), for more than 5 seconds.

9° If the engine fails to start immediately, wait at least 15" before making a second attempt.

10° If the key is brought to position "**C1**" (fig.59/C) all the pilot lights will go out and the engine will switch off.

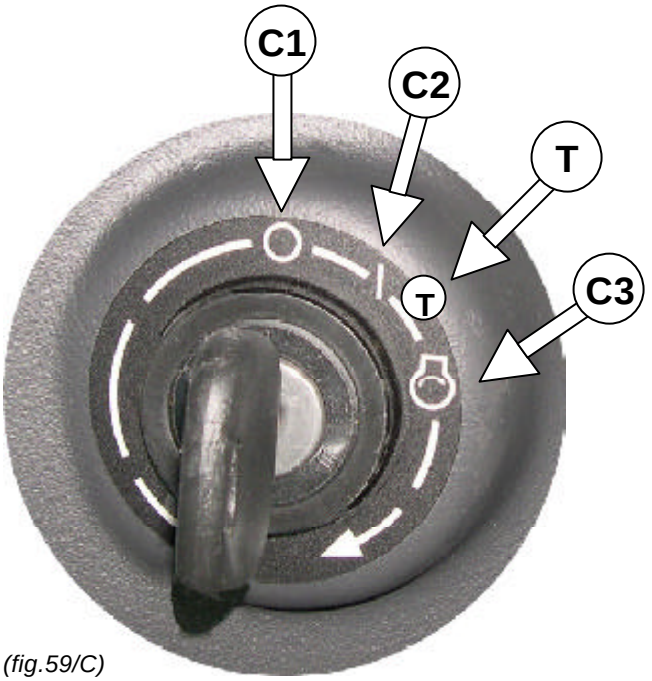
Warm-up after starting

Run the engine for 5 minutes at low speed. During the first 10 minutes of use, drive at a low speed and lift loads slowly.

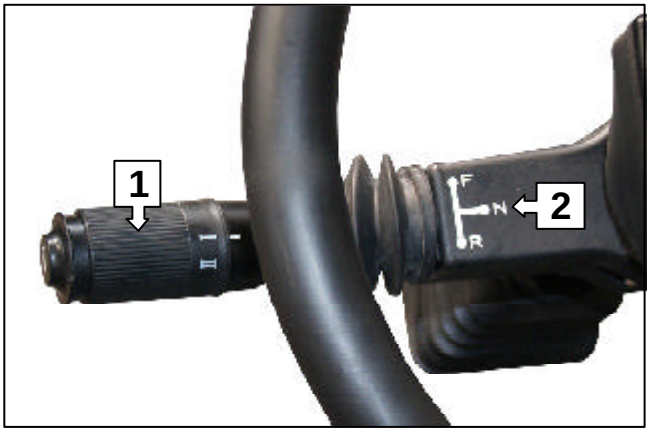
⚠ - **ATTENTION**:
the vehicle is equipped with a device that prevents starting the engine and putting the vehicle in gear if the operator is not correctly seated at the operator position.



(fig.58/C)



(fig.59/C)



(fig.60/C)

⚠ - ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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PEDALS / LEVERS

How to use the pedals

Accelerator pedal
(fig.61/C Pos.”1”)

Press the accelerator pedal to rev the engine up and release to decelerate it. The pedal acts directly on the injection pump of the engine. When the engine is running idle, the machine brakes still remain partially enabled.

Service brake pedal
(fig.61/C Pos.”2”)

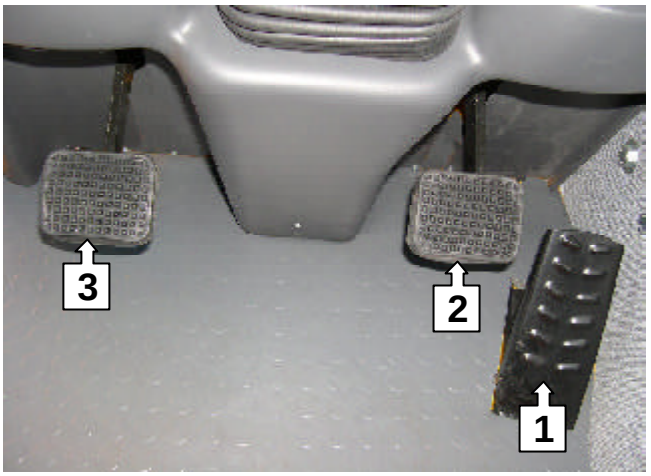
Press the service brake pedal to slow down or stop the vehicle. The stop lights will go on when the brakes are engaged. Check frequently to make sure that both stop lights are working correctly. This pedal works directly on the service brakes on the inside of the differential axles. Agricultural vehicles can be equipped with a hydraulic braking circuit for towing. (see the description in chapter “G” use and maintenance of optionals.

Pressure plug for twoing brakes (fig.62/C Pos.”A”)
(only for agricultural vehicles “optional”)

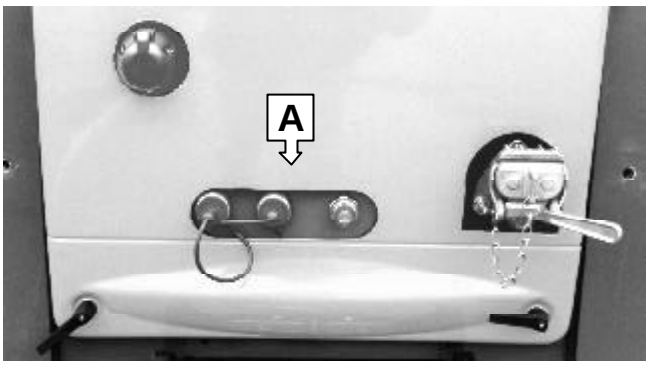
“INCHING” pedal
(fig.61/C Pos.”3”)

This pedal allows you to make precise slow forward movement even with the engine running at a high rpm. It works directly on the hydrostatic pump, reducing the capacity. With the pedal pressed to the floor, the vehicle comes to a standstill and is partially braked.

- **ATTENTION**:
it is dangerous to press this pedal when the vehicle is travelling at high speed, the vehicle will brake suddenly.



(fig.61/C)



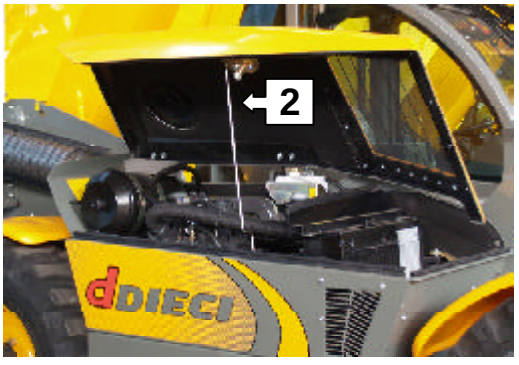
(fig.62/C)



(fig.63/C)

Engine bonnet opening lever
(fig.63/C)

This lever (fig.63/C Pos.”1”), (located on the left of the cab seat) when pulled, opens the engine bonnet, which once open should be propped up with the appropriate rod (fig.64/C Pos.”2”). The bonnet is closed by sliding it downwards. Make sure the locking device fits correctly into the bodywork.



(fig.64/C)

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Forward and reverse selecting lever
(fig.65/C-66/C)

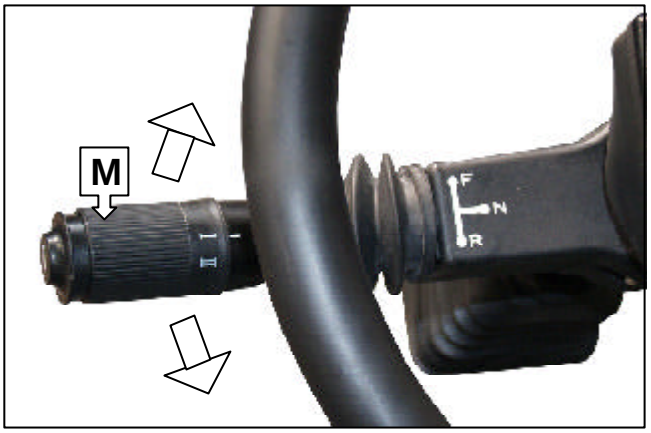
This lever (fig.65/C Pos.“M”) allows you to change the vehicle’s direction. The relevant indicator lights on the instrument panel will light up to show which direction the vehicle is moving in. If the indicators are off, then the vehicle is in neutral. If the lever is kept in Pos."N" (fig.65/C), the transmission is in neutral and the vehicle is partially braked.

- **ATTENTION**:
in order to put the vehicle into FORWARD/REVERSE, you must first shift the lever upwards. This is because of a system to prevent accidental movement of the vehicle.

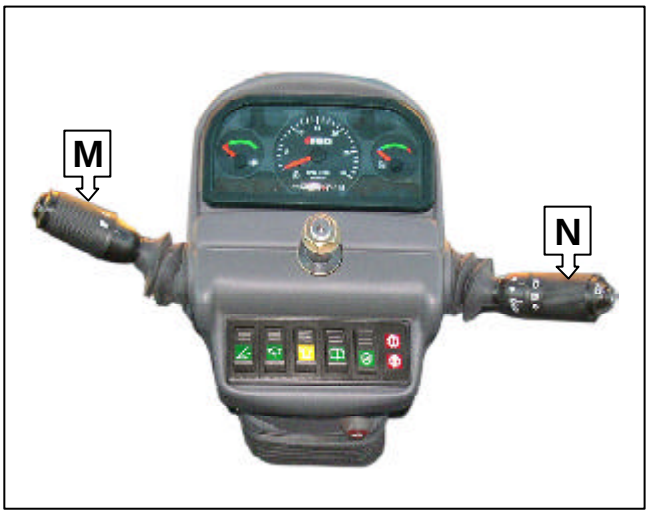
- Moving the lever to position Pos."**F**' (fig.65/C) the FORWARD gear is engaged.
- Moving the lever to position Pos."**R**"(fig.65/C) the REVERSE gear is engaged.
- If you press the lever, the horn sounds.
- Joystick "**M**" (fig.66/C) hydraulic gear: is activated for vehicles with suction engines. (For vehicles with turbo engines, the change over is automatic and this control is not activated).

When the lever is turned, the speed is automatically selected for the type of job to be carried out. (this can be used with the vehicle in movement)

- Turning the lever to Pos."**I**" (fig.66/C) the lower gear is engaged.
- Turning the lever to pos."**II**" (fig.66/C) the fast gear is engaged. (A luminous light indicates that the gear is correctlyengaged.)



(fig.65/C)

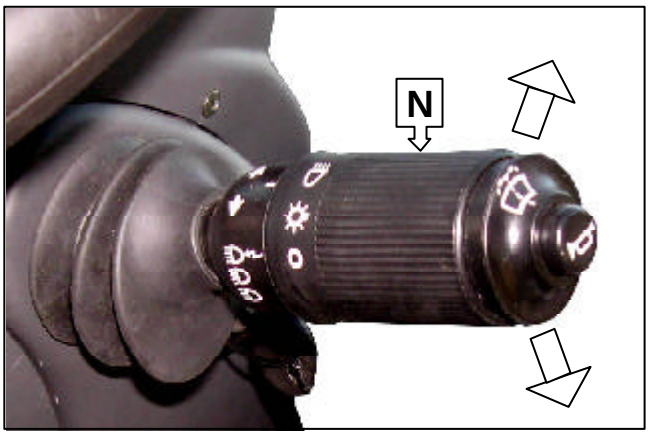


(fig.66/C)

Direction change indicator / light switch / windscreen washer
(fig.66/C-67/C)

This lever (fig.67/C Pos.“N”) is located on the right side of the steering wheel , and allows you to signal a right or left turn by turning the lever in the same direction as the steering wheel. The corresponding indicator lights will light up to indicate the operation is correct.

- If you rotate this lever, the front windscreen wipers are activated. The windscreen wiper blades should be replaced when worn. Worn blades may obstruct your vision and scratch the windscreen.
- Push the lever down to change the lights (full beam with head lights on).



(fig.67/C)

- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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SWITCH FOR ANTI-TIPPING DEVICE VEHICLE FUNCTION SELECTOR

ANTI-TIPPING (LIGHT AND SWITCH)
(fig.68/C)

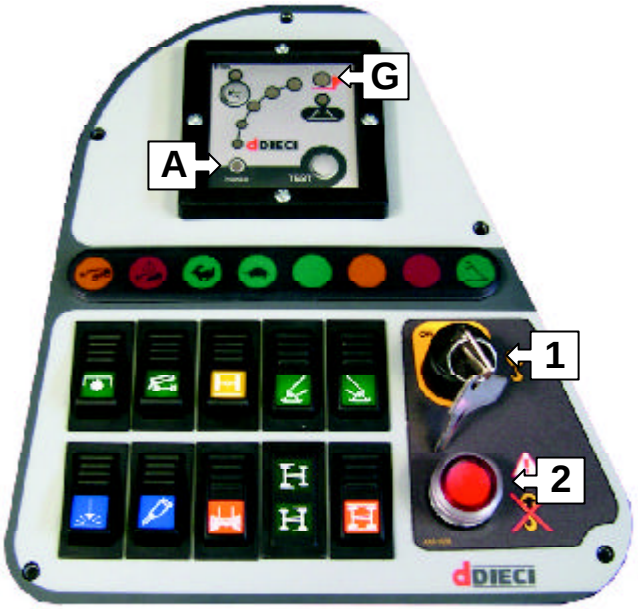
Anti-tipping device switch

It is compuslory to use this device when the vehicle is used to lift (key selector turned ON - fig.68/C Pos.”1”) (Red light “A” on)

Vehicle with stabilizers

- **ATTENTION**:
This device cannot be activated with the stabilizers lowered: for this condition, see “optional extensometric load restrictor”.

* The anti-tipping device comes into action when the longituinal stability limit has been reached. The limit is signalled by a continuous acoustic alarm and by the red LED “G” (fig.68/C) that lights up, compromising movements are automatically blocked and the emergency button is activated together with its red LED (fig.68/C Pos.”2”). In this case, press the reset alarm button (fig.68/C Pos.”2”) and the boom should be retracted until the alarm stops.

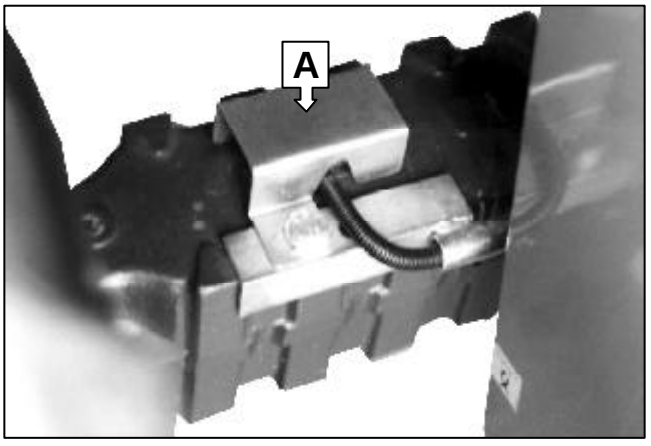


(fig.68/C)

- **ATTENTION**:
This button disables the anti-tipping device enabling all movements required. Do not make any movements that may further compromise the stability of the machine while the button is pressed.

* The anti-tipping device consists of a transducer which detects the flexing of the rear differential axle structure (fig.69/C Pos.”A”). This limiting device excludes any dangerous overloading.

- At the first sign of overload: the pre-alarm light comes on (yellow LED lit with intermittent acoustic alarm).
- If the operator continues with the manoeuvre: when the last red LED lights up the continuous alarm triggers and compromising manoeuvres are blocked.
- Once the manoeuvre "telescopic arm rettraction or lifting" has been carried out, the situation has been recovered and the vehicle is in safety
- The alarm goes out as soon as the vehicle returns to a condition of safety.



(fig.69/C)

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VEHICLE FUNCTION SELECTOR (OPTIONAL)

Material handling
(fig.70/C pos.”B” forks symbol)

Combined equipment:
forks, buckets, mixers, sieves.

Material lifting
(fig.70/C pos.”C” winch symbol)

Combined equipment:
plates with lifting hook, winches, jibs and jibs with winch.

People carrier
(fig.70/C pos.”A” people carrier basket symbol)

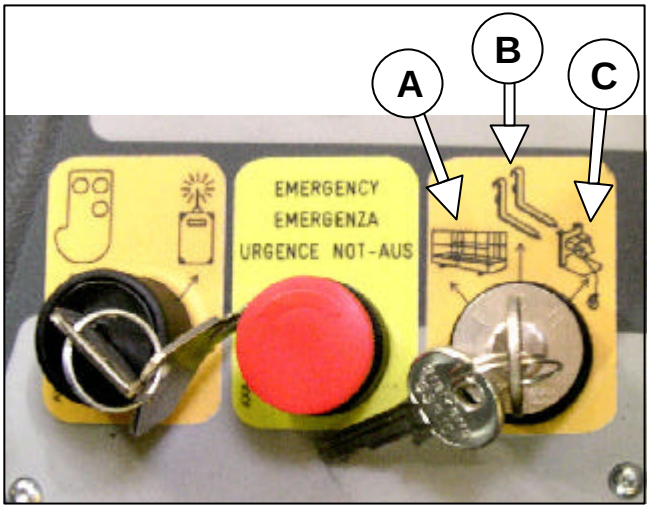
Combined equipment:
all people carrier baskets.

The equipment applicable to these machines refer to the price list of “Dieci”.

- ATTENTION:
DO NOT USE EQUIPMENT DIFFERENT TO THOSE OFFERED BY THE MANUFACTURER “DIECI”.

- ATTENTION:
WHEN USING THE BASKET, YOU MUST ONLY USE POSITION “B” IN THE CASE OF EMERGENCY TO LOWER THE OPERATORS BACK DOWN TO THE GROUND.

See the chapter on accessories and optional units for instructions on how to use equipment (chapter “G”).



(fig.70/C)

- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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EXTENSOMETRIC LOAD LIMITER (Optional)

Enabling switch of the load limiter

It is compulsory to use this device when the vehicle is being used as a lifter (key selector turned ON - fig.71/C Pos.”1”). Red LED (fig.71/C Pos.“A”) lit.

This limiting device excludes any overloading which could jeopardise the efficiency and safety of the arm when the stabilizers are lowered. It consists of a transducer (fig.72/C Pos.”A”) which detects the flexing of the structure and which activate set of LEDS on the display in the driver’s cab (fig.71/C). Refer to the previous “Anti-tipping device“ section for instructions on the set of LEDS.

When the outrigger feet are lowered, once they have been positioned correctly (see „correct feet positioning LED fig.71/C Pos.“L”), the ”feet lowered” LED lights up (fig.71/C Pos.”D”) and the load restrictor system is activated.

All machine movements will be stopped if the limit condition is reached, just like the anti-tipping device. To restore normal working condtions, press the alarm reset button (fig.71/C Pos.”2”) and retract or raise the boom until the acoustic indicator silences.

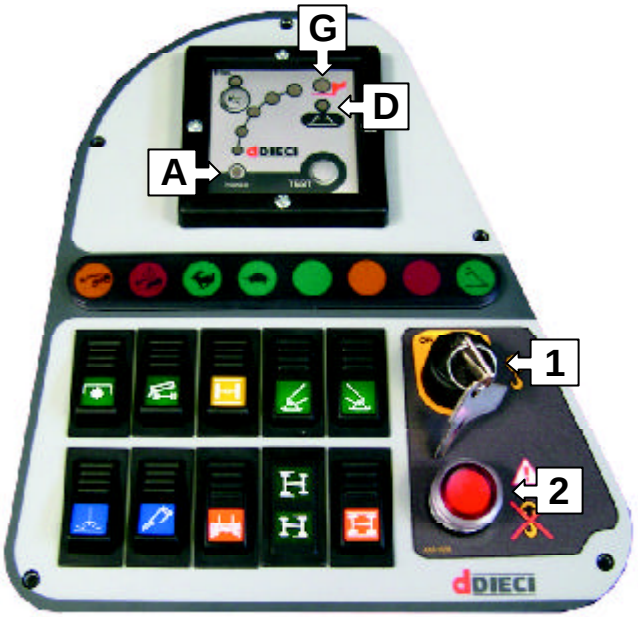
ATTENTION

LIGHT POSITION “G” ON (fig.71/C)**, THE VEHICLE IS AT THE LIMIT OF STABILITY CONDITIONS**

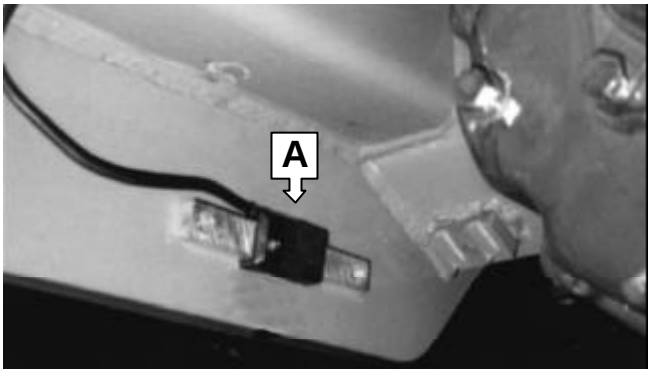
- **ATTENTION**:
It is possible to momentarily cut out the safety device upin tipping by turning the key selector switch (fig.71/C Pos.”1”) OFF. This might prove necessary if the safty systems should be blocked.

- **ATTENTION**:
This operation should be carried out **exclusively** in the case described above and only to retract the boom. Other manoeuvres would cause the vehicle to tip over.

- **ATTENTION**:
If such conditions should arise, the assistance of specialisde staff should be requested to chekc on the conditions of safety.



(fig.71/C)



(fig.72/C)

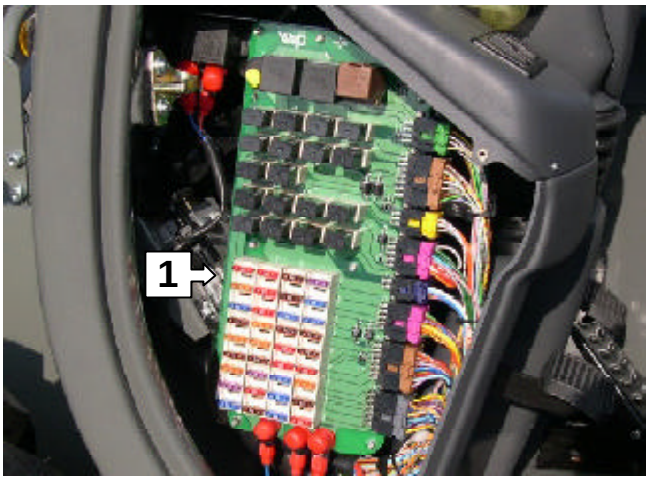
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POSITION OF PARTS

Fuse box
(fig.73/C Pos.”1”)

This is located inside the cab on the left hand side of the steering column. To open it, loosen the screws.

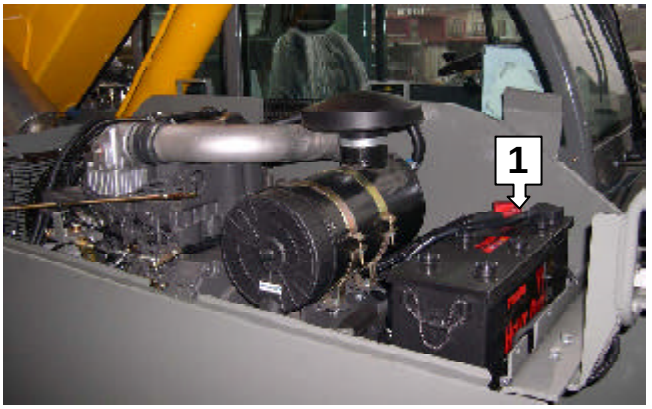
- **ATTENTION**:
if you need to replace a fuse, use one with the same amps.



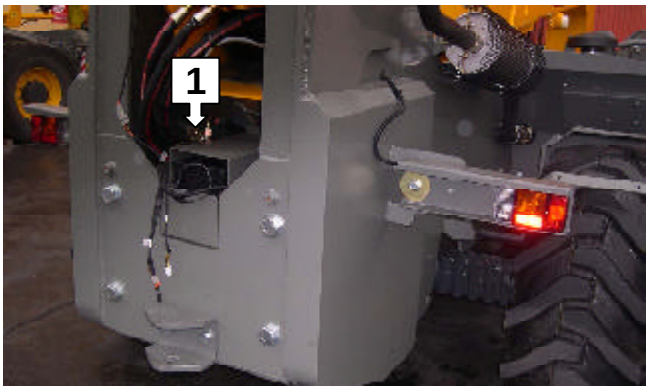
(fig.73/C)

Inspecting the battery
(fig.74/C, 75/C, 76/C Pos.”1”)

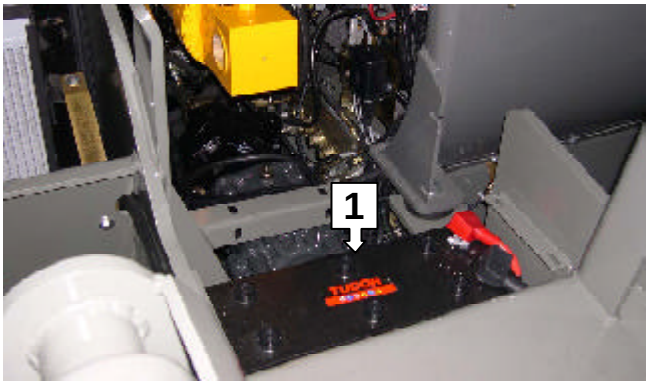
The battery is arranged in different points based on the model: see photos at side.



(fig.74/C position of battery for Agri Farmer)



(fig.75/C position of battery for Agri Max - Agri Power)



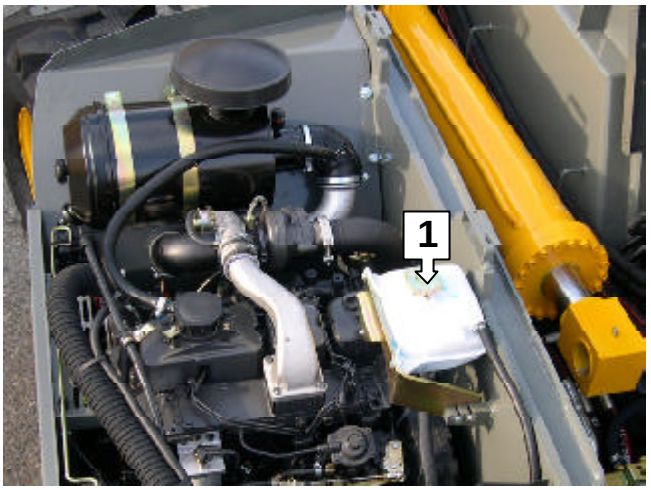
(fig.76/C position of battery for Agri Star)

- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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Inspection and top up cap for cooling fluid
(fig.77/C Pos.”1”)

Located in the upper part of the engine.
To open it, unscrew the cap carefully (danger of scalding).
This should be carried out when the engine is cold.



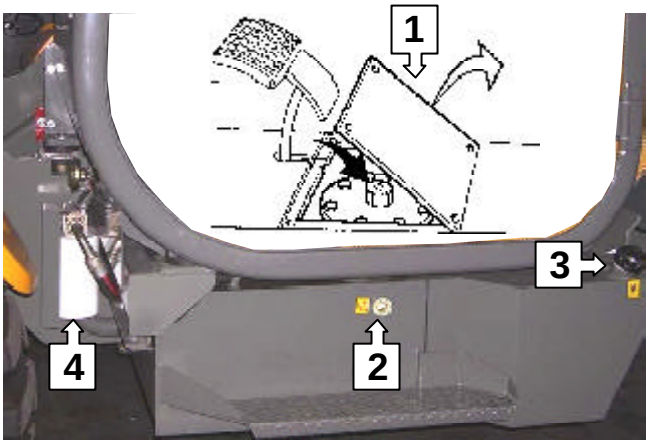
(fig.77/C)

Inspection cover for hydraulic oil tank
(fig.78/C Pos.”1”)

Located in the cab under the platform, to reach this remover the protective cover.
To open, loosen the screws

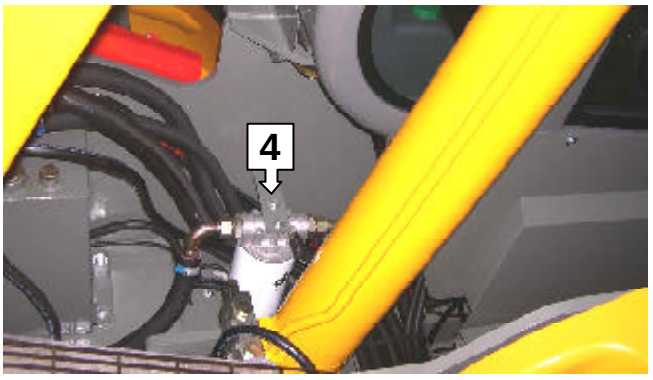
Transparent cap for hydraulic oil level
(fig.78/C Pos.”2”)
Correct oil level should be kept visible.

Fuel tank cap
(fig.78/C Pos.”3”)
To open, unlock using the key supplied and unscrew the cap.



(fig.78/C position of oil filter Agri Max - Agri Power)

Oil filter for hydrostatic circuit
(fig. 78/C, 79/C, 80/C Pos.”4”)
Arranged in different points based on the model (see photos at the side).
To replace this, see the chapter on maintenance.



(fig.79/C position of oil filter Agri Farmer)

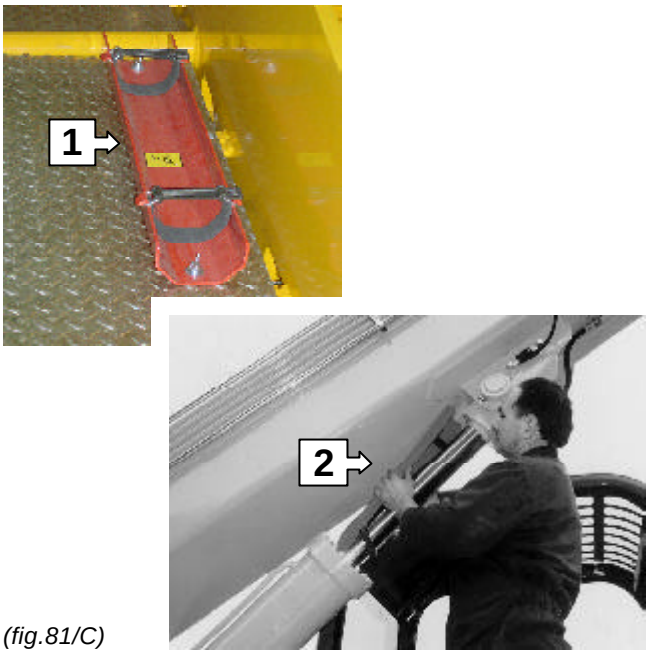


(fig.80/C position of oil filter Agri Star)

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Arm support rod
(fig.81/C Pos.”1”)

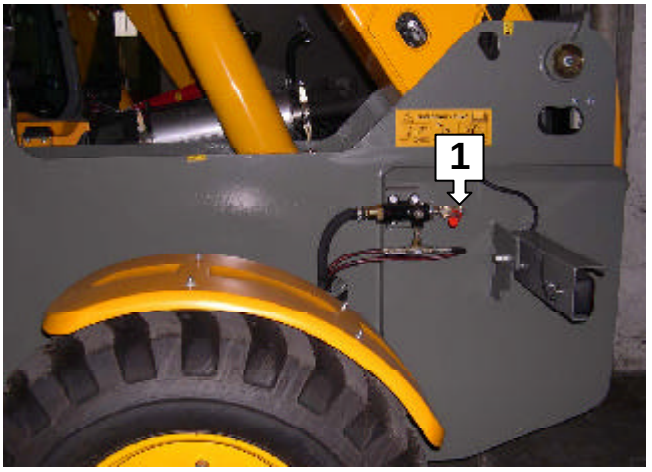
Located on the side of the chassis (right hand side of the vehicle).This is for use when carrying out maintenance on the vehicle.Position as shown in the illustration (fig.81/C pos.”2”).



(fig.81/C)

Emergency arm recovery pump (Optional)
(only for vehicles equipped with the passenger conveying basket) (fig.82/C Pos.”1”)

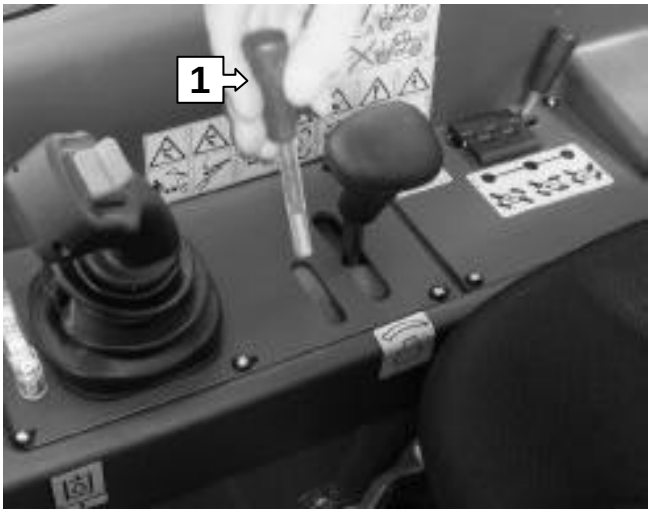
Located under the rear left fender.
See the chapter attachments and optionals for use.



(fig.82/C)

Lever to recover arm movements in an emergency
(fig.83/C Pos.”1”)

To be used togethr with the emergency pump (fig.82/C Pos.”1”). The lever has been removed from certain models and located inside the tool box. (Screw up tightly before use). See the chapter attachments and optionals for use.)



(fig.83/C)

- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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USING YOUR VEHICLE

Getting ready to operate

Before starting to operate:

Make sure the vehicle is in good working order. To ensure this, check out the vehicle as described below to obtain maximum efficiency in full respect of all safety regulation

ANTI-TIPPING SAFETY DEVICE

⚠ - **ATTENTION**:
Anti-tipping safety device: you must make sure this device is in good working order evry time you use the vehicle.

It is essential to make sure all the vehicle safety devices are in good working order (see chapter “B”) the anti-tipping device in particular must be checked as follows:

1) Make sure that the anti-tipping switch (fig.84/C Pos.”1”) is activated (key selector switch ON) and the function selector key (if present) is turned to the position “vehicle”.

2) Position the vehicle on wheels with the stabilizing feet (if present) completely raised,on firm, flat ground.

- using the forks, lift a load weighing above 300 kg. or in any event quite a heavy load for the model of machine in use.
- lift the load to approx. 1 m from the ground.
- extend the boom.

During this manoeuvre, firstly the “pre-alarm” yellow light should come on (fig.84/C Pos.”2”) accompanied by an intermittent acoustic signal and then the red “allarm” light (fig.84/C Pos.”G”) with continuous acoustic signal. At the same time, the extension movement should be blocked. In these conditions, all pejorative movements of the boom should be blocked.

3) Vehicle on stabilizers and Extensometric Load Limiter (Optional)(on firm, flat ground) repeat the instructions given under par. 1 but with a load weighing over 500 kg. or in any event quite a heavy load for the model of machine in use.

- if any anomalies should be found in the safety devices, suspend use of the vehicle until the necessary repairs have been carried.



(fig.84/C)

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LOAD TABLES AND BOOM INDICATORS

USING THE LOAD TABLES AND BOOM INDICATORS

- ATTENTION:
for your own safety and to keep the vehicle intact, you must conform to all information given here below .

The load tables relating to your vehicle can be found inside the note pad in the cab or in chapter "H" (vehicle technical sheets) of this manual.

- ATTENTION:
The restrictions indicated in the load tables refer to the vehicle at a halt on wheels or stabilizers. Do not lift or extend the boom when the vehicle is in motion. Retract the boom completely and lower it as far as possible before moving with a load.

Check which boom accessory is mounted on the machine and then consult the correct load table on the cabine.

Before proceeding to lift or put down a load, it is essential that you know how much it weighs. Make sure the centre of gravity of the load does not exceed 500 mm measured from the heels of the forks.

- ATTENTION:
the centre of gravity of the load, may not necessarily be at the centre, you have to therefore work out its position.

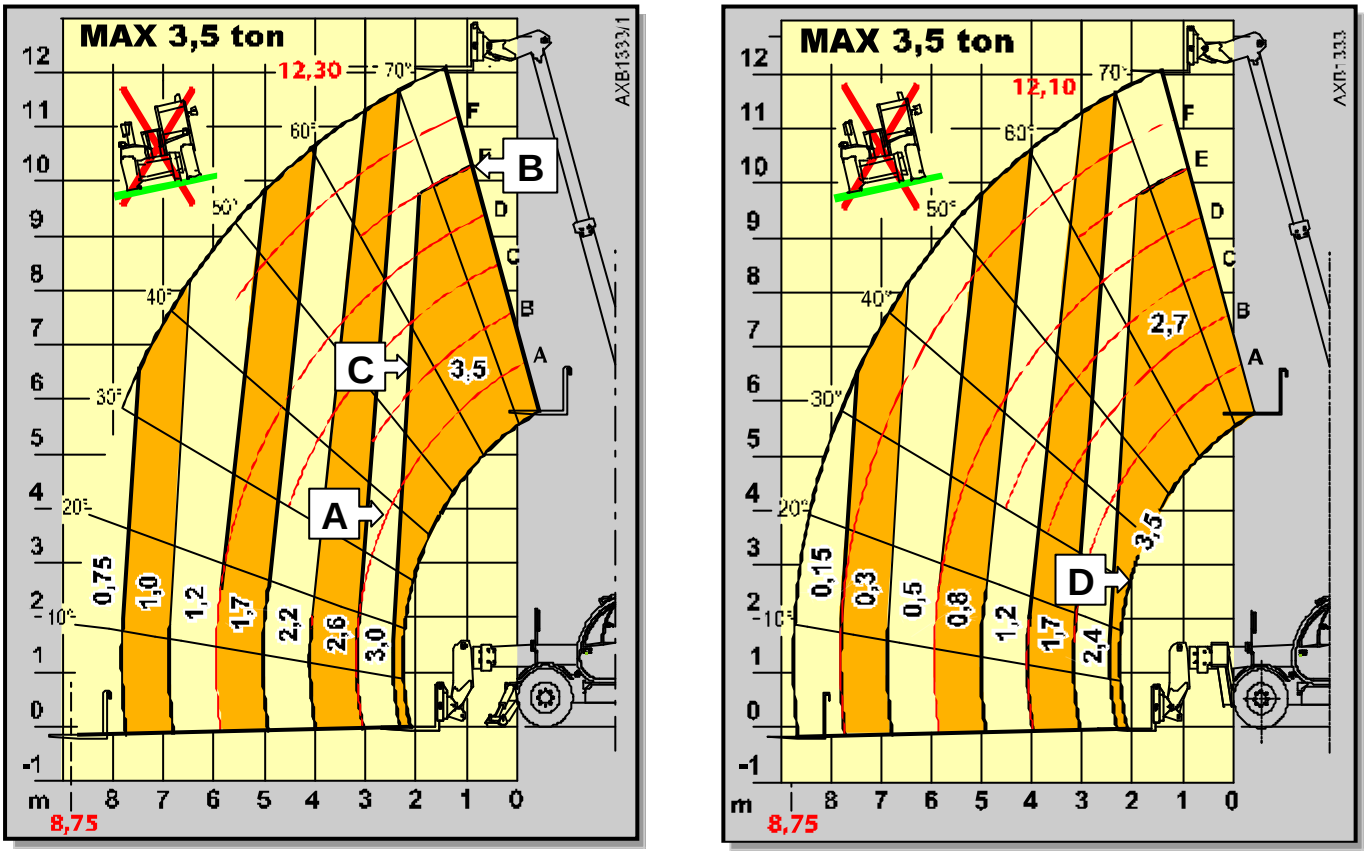
- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

When you know the weight of the load, consult the load table (chapter "H" vehicle technical sheets) and identify the section indicating the weight immediately above.

Example:
in the load table given as an example (fig.85/C), the weight of the load is 3,4 ton, go to the section with the superior weight of 3,5 ton. (fig.85/C Pos."A")

The left and the uppon side of this section show the limits of the machine's stability in according to the load in question.
It is forbidden to fold or extend the boom over the limits indicated. (fig.85/C Pos."B-C").

After the insertion of the forks under the load and before to lift it, check the values on the indicators of the angle-shot and extension boom. Find the same values on the load table.



(fig.85/C)

As you will see in the table, the lines start from the graduated scale for the tilt and extension of the boom and cross the section of the table. Identify where the relevant lines for the parameters under consideration intersect. If the point of intersection is inside the section for the maximum load or to the right (known load weight) the load is within safety limits.

If the lines intersect above or to the left of the section, do not attempt to lift the load. Remove the forks and retract the boom. If, even with the boom completely retracted, the angular degrees and the extension of the boom intersect outside the section for maximum load, do not try to lift the load.

When the load is on the forks, retract the boom before lifting or lowering it. This will reduce the risk of rendering the vehicle unstable.

It should be noted that when the load is raised (for example, on scaffolding) it should be freed (raise it) before retracting the boom completely.

Before depositing a load, consult the load table to determine the maximum distance of the vehicle from the unloading point. You should be able to deposit the load without intersecting the limits indicated to the left or above the maximum load section.

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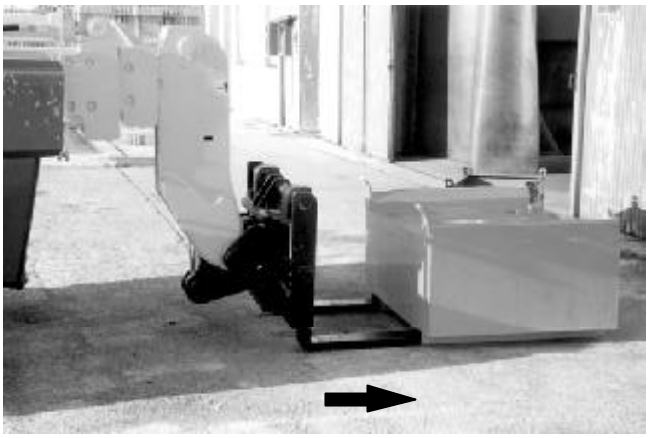
OPERATING INSTRUCTIONS
(RAISING AND TRANSPORTING THINGS)

- ATTENTION:
BEFORE STARTING TO,OPERATE, USE THE APPROPRIATE KEY TO SELECT THE FUNCTION "VEHICLE"

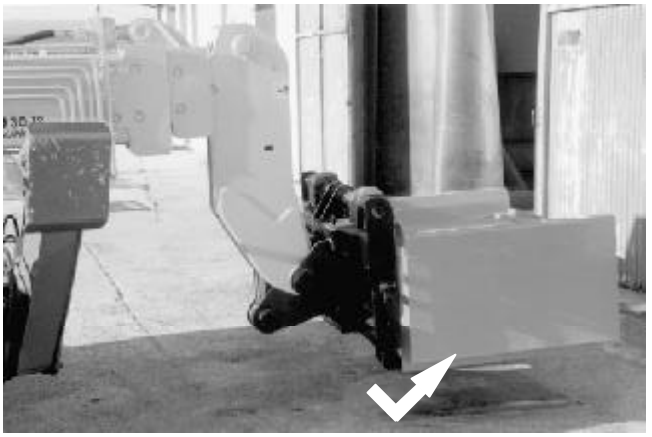
Taking a load

- Position the forks in the way most suitable for the load to be lifted.
- Position the forks horizontally.
- Approach the load centrally with the wheels and forks straight (fig.86/C).
- Extend the boom and approach the vehicle in order to position the load on the forks.
- Tilt the forks backwards slightly to stabilize the load better once it has been lifted (fig.87/C).
- Lifting a load.

Before lifting a load, make sure the vehicle is levelled correctly using the spirit level located in the cab.
If the ground is sinking, position wooden planks under the stabilizers to increase their capacity.



(fig.86/C)



(fig.87/C)

Levelling with stabilizing fett

Note: pay careful attention when lifting loads with the vehicle on sinking ground. Use the stabilizers to increase stability; level the vehicle crosswise by activating the stabilizers separately.

Levelling (optional)

Note: pay careful attention when lifting loads with the vehicle on sinking,uneven ground. Use the stabilizers to increase stability (fig.88/C); level the vehicle crosswise using the levelling switch (see pag. C/11)

- ATTENTION:
It is compulsory to lift the load on flat, not sinking ground when using the stabilizers.



(fig.88/C) Levelling

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TRANSPORTING A LOAD

- It is important that you select the appropriate type of steering for the type of terrain on which you will be operating.
- Lift the load approx. 30 cm. from the ground.
- Transport the load at a slow speed, watching out for any unevenness on the terrain.
- It is forbidden to drive the vehicle with the boom raised, the vehicle would become very unstable

LIFTING A LOAD

Note: before lifting a load, make sure there is sufficient room to carry out the manoeuvre.

- ATTENTION:

1) **POSITION THE VEHICLE ON STABILIZING FEET (IF FITTED ON THE VEHICLE)**
2) **MAKE SURE THAT THE VEHICLE IS PERFECTLY LEVEL (SEE SPIRIT LEVEL) WHETHER THE VEHICLE IS FITTED WITH STABILIZING FEET OR NOT.**
3) **USING THE APPROPRIATE SWITCH ACTIVATE THE ANTI-TIPPING DEVICE OR THE EXTENSOMETRIC LOAD LIMITER (Optional) (RED LIGHT ON ON THE SWITCH)**
4) **MAKE SURE THAT THE PARKING BRAKE IS ACTIVATED (RED LIGHT ON)**
5) Make sure you know the weight of the load before lifting it and that it does not exceed the capacity indicated in the relevant tables marked on your vehicle.If the vehicle should become unstable while lifting the load, retract the boom and lower it immediately.

IMPORTANT

before lifting the load, remove the extensions

LOWERING LOADS LOCATED AT A HEIGHT

- Approach the unloading area centrally with the wheels straight and the boom lowered.
- Leave sufficient room to operate the boom
- Make sure you will not exceed the load limits indicated in the diagrams in the tables.
- Switch on the handbrake and put the speed selector into neutral.
- Raise the boom and lift the load onto the forks, making sure the ground is flat.
- Retract the boom carefully, retracting also the extensions, then lower the boom.

LIFTING LOADS OF UNKNOWN WEIGHT

- ATTENTION:
Check all safety devices before operating. (Pag.C/35)
(see par. 1-2-3-4 “LIFTING LOADS”)

The vehicle with stabilizing fett can be equipped with a capacity restricting device. This device makes it possible to avoid dangerous overloads harmful to the efficiency and safety of staff and the vehicle when lifting loads of unknown weight. (see pag. C/30)

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USING THE VEHICLE ON THE ROAD

- **Do NOT use the vehicle on public roads when it is carrying a load.**
- Consult the technical document enclosed with the logbook for instructions on driving on the road with attachments fitted on the fork-carrying plate.
- Make sure the lights are working correctly before going onto public roads.
- It is compulsory to set the steering as shown in the vehicle handbook and to block the selection lever using the relevant device.
- The traffic regulations require that the rotating light is activa ted even during daylight.
- Mount a red and white striped sign on the fork holding plate.
- The regulations for driving on public roads are stated on thehandbook.

- ATTENTION:
USING THE VEHICLE ON THE ROAD for agricultural vehicles with a tow see chapter "G" optional.

TEMPORARY HALT

When temporarily halting the vehicle, gradually release the accelerator pedal and halt the vehicle on flat ground. Pull on the handbrakewith the appropriate switch and make sure the cab is aligned to the steps.

Stopping

- Move the lever "direction" to Pos. "N" (fig.28/C pag. C/16), let the engine tick over for approx. 5" at minimum revs.
- Turn the key toposition (0) (the engine will stop).
- Take out the key.
- Use the handle and steps to get down from vehicle.
- While the vehicle is being run in (50 h) do not keep the diesel engine at minimum revs for too long.

STOPPING AT THE END OF A JOB

Parking

At the end of each day, bring the vehicle to a halt on dry ground and align the cab to the steps.

N.B.: place the attachment on a support or on the ground. If it is necessary to park the vehicle uphill or downhill, lower the stabilizing feet, lower the boom to the ground and turn the wheels uphill.

- Close and lock all windows.
- Use the handle and steps to get down from the vehicle.
- Lock the door with the key.

- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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USING THE VEHICLE IN PARTICULAR CONDITIONS

LOW TEMPERATURES

Use suitable fuel (artic fuel).

Use suitable engine oil (see the lubrication table).

If possible, keep the vehicle indoors and sheltered from the extreme cold.

HIGH TEMPERATURES

Check the level of the cooling fluid at least 2 a day and top up if necessary.

Clean the ouside of the water radiator using compressed air at a pressure of 4 bar.

USING THE VEHICLE ON MUDDY GROUND

Make sure that the presence of water, mud etc. does not put the stability of the vehicle at risk.

USING THE VEHICLE INDOORS

The vehicle should be used only outdoors. The engine emits gases which are harmful to your health.

If the vehicle has to be used indoors, special depurators are needed as well as adequate ventilation.

It is forbidden to use the vehicle in areas where there is the risk that explosive gases may be present.

USING THE VEHICLE AT HIGH ALTITUDES

It is important to bear in mind that the diesel engine loses power at higher altitudes (1% approx. for every 100 m. of altitude).

AGRICUITURAL VEHICLES

If the vehicle is used in partiuclarly dusty conditions such as: hay-lofts, stables, manure-heaps, silos etc., the outer cooling grids and the radiator fins should be cleaned daily with compressed air.

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TOWING THE MACHINE

Towing the machine in the case of breakdown

- ATTENTION:

Never attempt to start the machine by towing it or by pushing it with the hydrostatic drive engaged.

The machine can only be towed at slow speed in emergency conditions (max. 4 km/hour) and for a very short distance (max. 500 m).

IMPORTANT:
If possible, keep the engine switched on while being towed (for example : drive breakdown, etc.) so that the power steering and the electric switch for the handbrake is still available. If this is not possible, bear in mind that the steering will require much more effort than it normally would.

- ATTENTION:

The servo controls do not work when the engine is not running. The power steering unit requires more force than normal. When towing the machine you must use a rigid tow bar.

- ATTENTION:

The towing bracket has been designed for a towing weight of 10.000 Kg., do not tow the vehicle on public roads for long distances, if possible keep the yellow flashing light on.

NOTE:
never exceed the speed of 4 Km/h while the vehicle is being towed.

Two operations are required in order to tow the vehicle:

1) **Put the hydrostatic drive in neutral.**

2) **Release the negative parking brake**, where this is envisaged (some models feature a mechanical lever, in which case, simply lower the lever to the horizontal position). To disable the negative parking brake, simply start the engine and remain seated in the driver's seat, if this is possible. If it is impossible to start the engine, proceed as described in the section entitled: "Pre-arranging the gear in neutral and disabling the negative parking brake".

The vehicle can now be towed.

ATTENTION

The operations described above should be carried out by expert staff



(fig.89/C)

- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

Pre-arranging the gear in neutral and disabling the negative parking brake

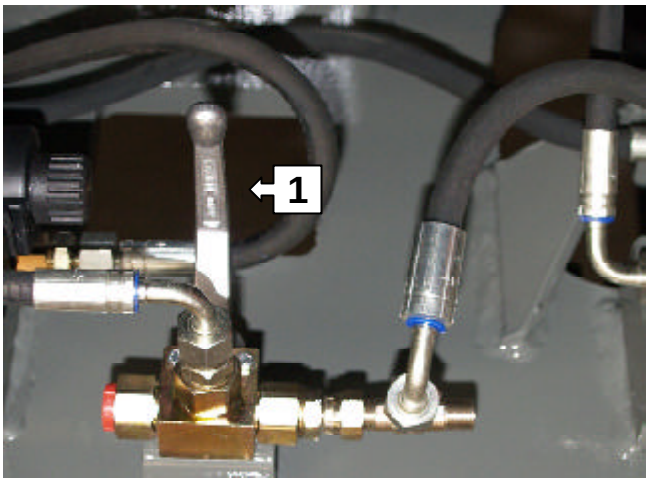
1) Put the gear in neutral

Operation description.

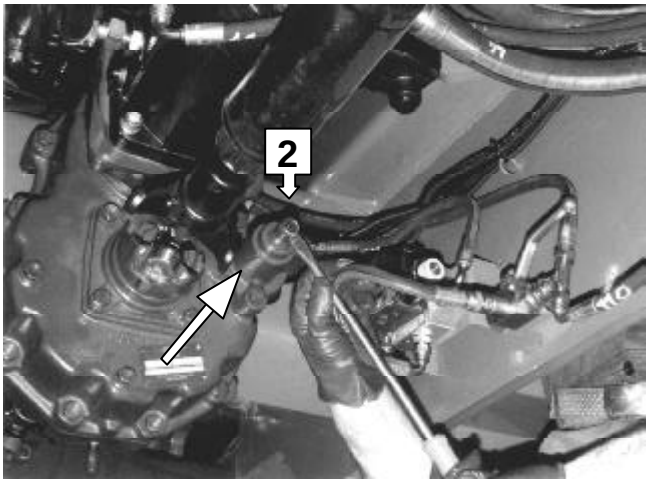
1a-Turn the engine off.

1b-Turn the lever of the hydraulic tap under the machine, to the “open” position (fig.90/C Pos.”1”).

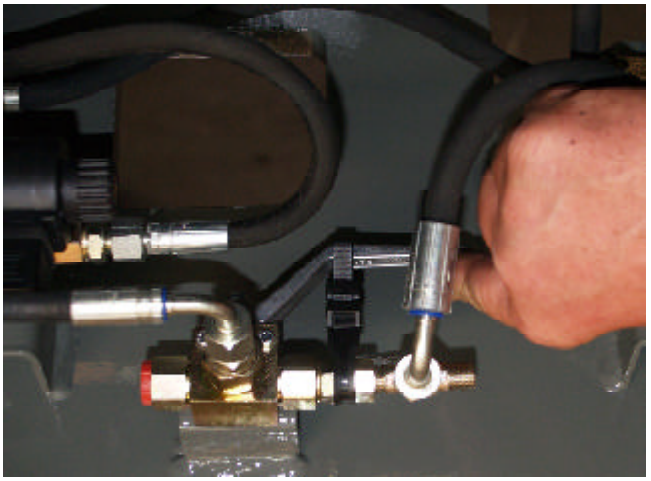
1c-Turn the pin of the gear selector halfway to the neutral position using a screwdriver (fig.91/C Pos.”2”). Before you start towing the machine, check the LED on the dashboard to make sure the gear is in neutral (“Drive enabled” LED switched off, only if the electrical system is working).



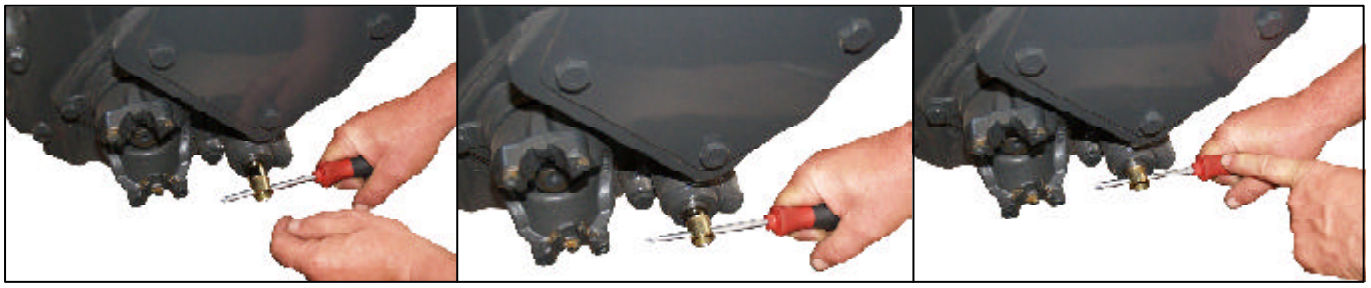
(fig.90/C) Tap shut-on



(fig.91/C)



(fig.92/C) Tap shut-off



Fast gear engaged ***Neutral*** ***Slow gear engaged***

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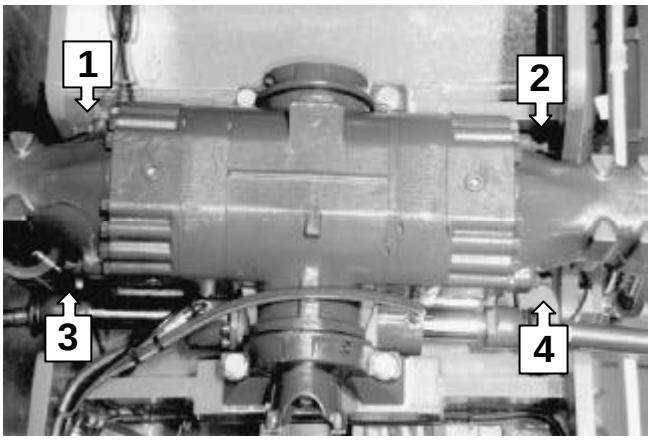
2) Disabling the negative parking brake with the engine turned off (Agri Max - Agri Power).

2A Disabling the negative parking brake where envisaged with the engine turned off (**Agri Max - Agri Power**):

1° Loosen the check nuts on both sides (fig.93/C Pos."1-2-3-4") of the central casing of the front axle.

2° Tighten the screws until you feel some resistance. (Attention: Keep a count of how many times you turn the screws to be able to put them back in the same position later).

3° Tighten the screws by another 1.5 turns. The brake is thus released. You can now tow the machine in these conditions. Restore the initial conditions to re-enable the brake.



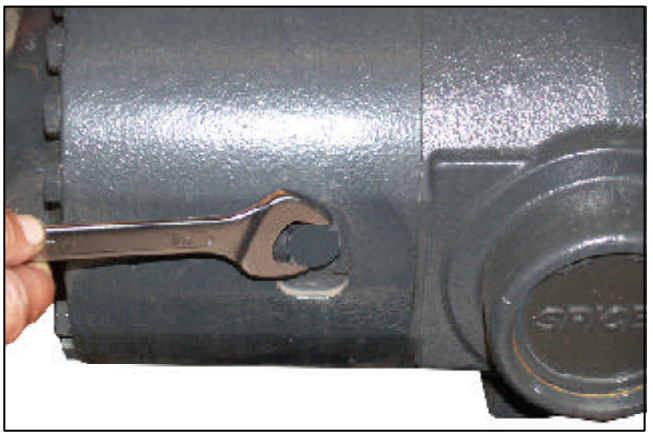
(fig.93/C)

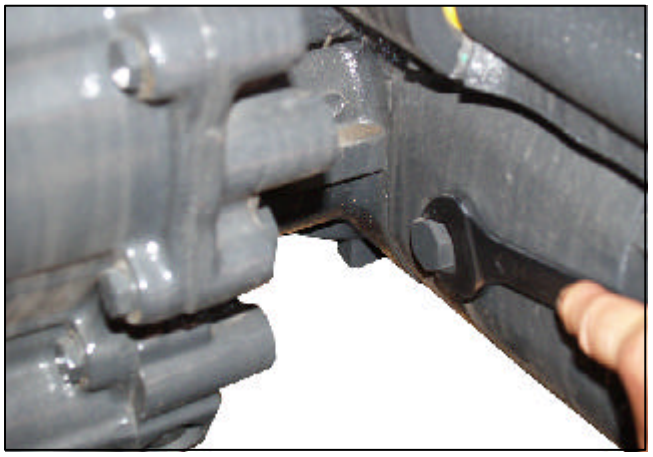
2B Disabling the negative parking brake with the engine turned off (**AgriFarmer**):

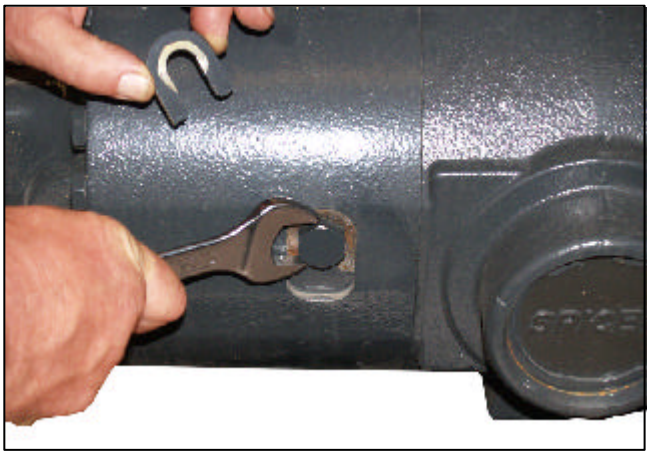
1° Loosen the screws on both sides (fig.94/C-95/C) of the central casing of the front axle (do not unscrew completely, but just enough to be able to perform point 2°).

2° Remove the "U" spacers (fig.96/C).

3° Firmly tighten the screws again. You can now tow the machine in these conditions. Restore the initial conditions to re-enable the brake in operating conditions.


(fig.94/C)


(fig.95/C)


(fig.96/C)

- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

2C Disabling the negative parking brake with the engine turned off (**AgriStar**)

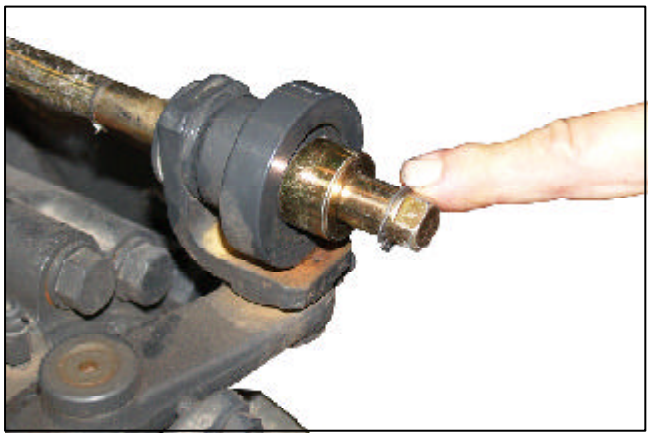
1° Position a screwdriver as illustrated (fig.97/C).

2° Using a rubber hammer, strike the handle of the screwdriver once and sharply.

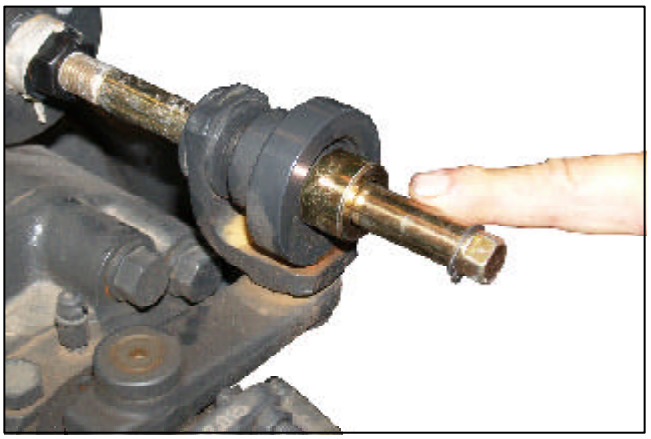
3° The parking brake is now disabled and will be automatically re-enabled when the engine is started. You can now tow the machine in these conditions. Simply start the engine again to restore the operating conditions of the brake.



(fig.97/C)



(fig.98/C) Parking brake enabled



(fig.99/C) Parking brake disabled

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RAISING THE MACHINE

(fig.100/C)

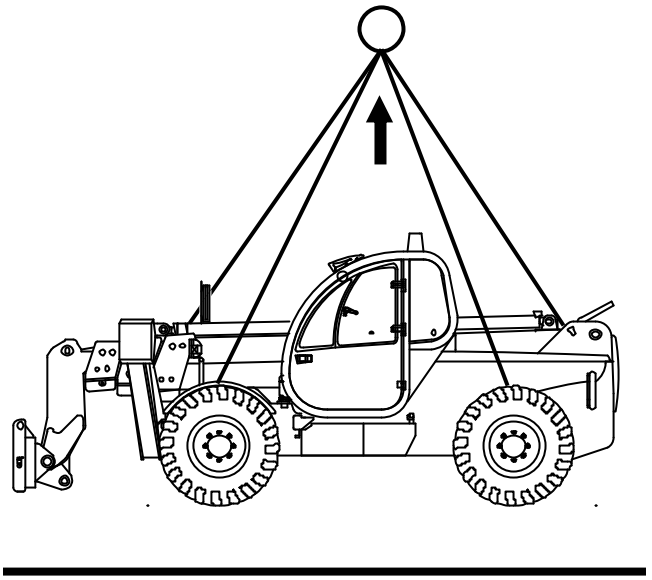
- ATTENTION:

Make sure that the raising mechanism has a suitable capacity for the weight of the vehicle.

The weight of the vehicle is indicated on the relevant metal plate, check the dimensions for the maximum and minimum height from the ground and for the weight allowed.

The machine is equipped with lifting points marked with the appropriate symbol. Before proceeding to lift the vehicle, make sure there is no one within range other than relevant staff. Attach the cords to the points shown in the illustration, taking particular care when actually lifting the vehicle. Proceed to slowly raise the vehicle.

- IMPORTANT: the cables must be able to support a minimum weight of 6 Tons.



(fig.92/C)

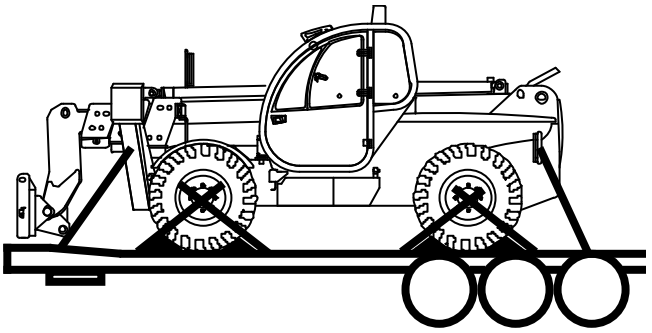
TRANSPORTING THE VEHICLE

(fig.101/C)

- **ATTENTION**:

Before proceeding with transportation of the vehicle, make sure that all rules and regulations will be respected in all those areas through which the vehicle will be in transit.

- Before loading the vehicle onto the means of transportation, make sure the latter and the ramp are free of all traces of oil, grease and ice.
- Check the overall bulk of the vehicle for the minimum and maximum height from the ground and weight allowed.
- Block the tyres of the transportation vehicle with wedges un der front and rear.
- Make sure the ramp on the transport vehicle is positioned correctly and safely before loading the vehicle.
- Make sure that the boom is lowered.
- Manoeuvre the vehicle with caution onto the transport vehicle.
- Once the vehicle is in position, pull on the parking brake.
- Place wedges under the front and rear tyres of the vehicle. Anchor it to the transport vehicle with cables or chains.
- Use only the anchoring points shown in the illustration and marked with the appropriate symbols.



(fig.93/C)

- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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MAINTENANCE and ADJUSTMENTS

D

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⚠ - ATTENTION:

1 <u>All maintenance procedures or jobs that are not</u> described in this manual are strictly prohibited and must be carried out by authorised mechancs.

2 Maintenance And Repair Jobs Must Be Carried Out By Authorised And Qualified Mechanics.

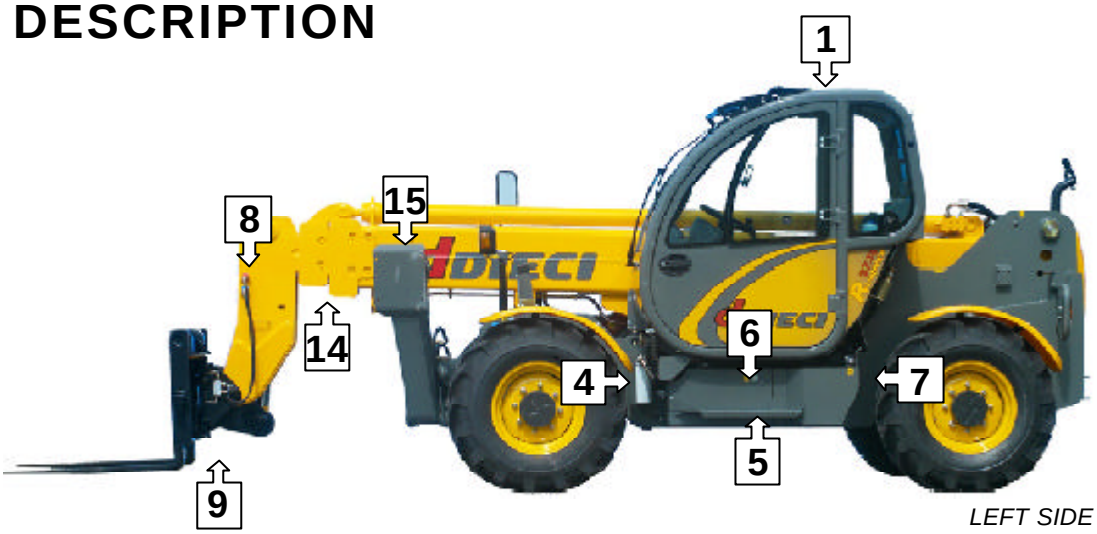
The Operator Can Simply Check The Following:
"Check Liquid Levels, Clean Air Filters, Check Tyre Inflation Pressure".

These Jobs Must Be Carried Out In Compliance With Safety Instructions, As Described Herein.

The Knurled Plates (Cusped) And The Cab Flooring Are The Only Parts That The Operator May Stand On; Use Suitable Steps To Reach Any Parts To Be Serviced That Cannot Be Reached From The Ground.

<u>Each time the machine is modified, it must verified again to check its compliance with Machine Directive EC/98/37.</u>

MACHINE DESCRIPTION



LEFT SIDE

IDENTIFYING VEHICLE PARTS

1) - CAB

2) - DIESEL ENGINE

3) - HYDROSTATIC ENGINE PUMP

4) - HYDROSTATIC CIRCUIT OIL FILTER

5) - HYDRAULIC OIL TANK

6) - HYDRAULIC CIRCUIT FILTER

7) - FUEL TANK

8) - BOOM HEAD SOLENOID VALVE

9) - FORK OR ATTACHMENT HOLDING PLATE

10) - DIFFERENTIAL AXLE

11 - DRIVE SHAFT

12) - WHEELS

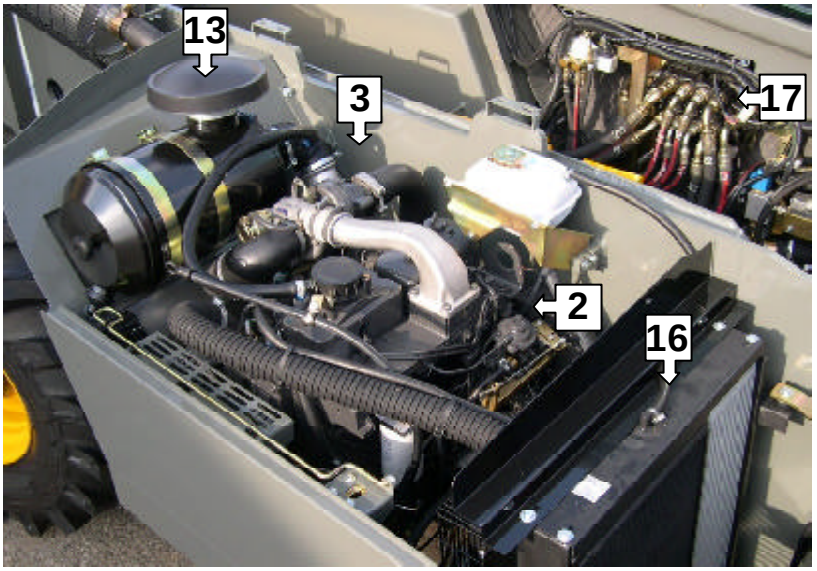
13) - AIR FILTER

14) - TELESCOPIC ARM (BOOM)

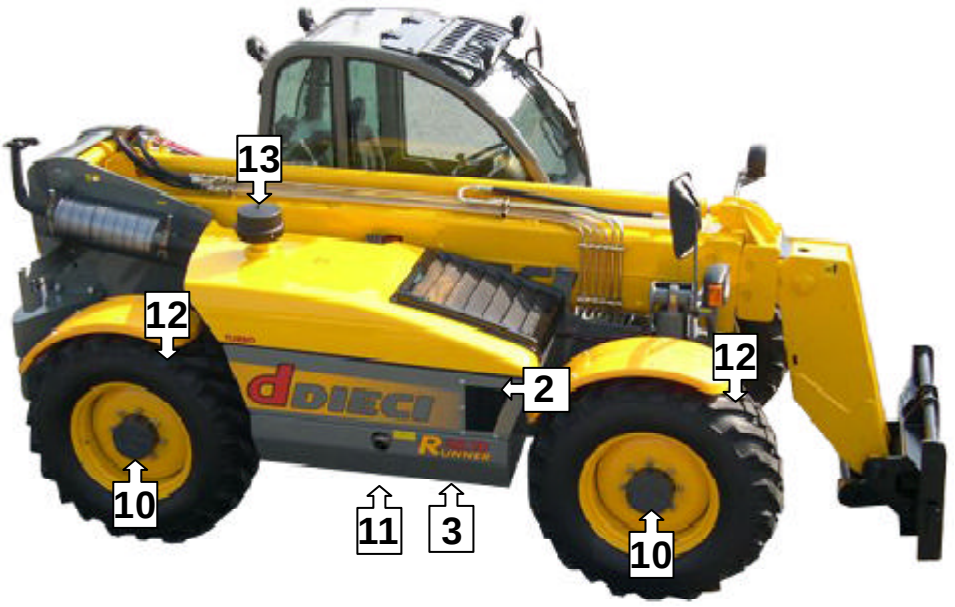
15) - STABILIZING FOOT

16) - RADIATOR

17) - BOOM CONTROL DISTRIBUTOR



ENGINE



RIGHT SIDE

THE POSITION OF SOME PARTS MAY VARY BASED ON THE SPECIFIC MODEL

⚠ - ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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NOTES

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SCHEDULE FOR MAINTENANCE AND ADJUSTMENTS

The operations marked with an X must be carried out by your DIECI dealer.

GROUP	DESCRIPTION * IN PARTICULAR CONDITIONS	Period in HOURS						
		10	50	100	250	500	1000	2000
ENGINE	Check engine oil level	O						
	Replace engine oil				O			
	Replace engine oil filter				O			
	Clean air filter	*		O				
	Replace air filter				*	O		
FUELLING SYSTEM	Replace fuel filter				O			
	Empty fuel tank					O		
	Clean fuel pump filter					O		
COOLING SYSTEM	Check water level in radiator	O						
	Check radiator is not clogged	O						
	Replace cooling liquid							X
HYDRAULIC CIRCUIT AND TRASMISSION	Check hydraulic oil level	O						
	Replace oil in the hyrdraulic circuit					O		
	Replace or clean filters for hydraulic oil tank					O		
	Replace outer filters for hydraulic oil				O			
	Check for leaks on hydraulic circuit piping		O					
ELECTRIC CIRCUIT	Check battery electrolyte level				O			
	Check electric circuits				O			
	Check alternator belt				O			
DIFFERENTIAL AXLES AND GEARBOX	Check oil level in differential sump					O		
	Check oil level in epicycloidal reduction gear					O		
	Replace oil in differential sump						X	
	Replace oil in epicycloidal reduction gear						X	
	Grease differential axles			O				
	Tighten wheel nuts				O			
	Check gear oil level					O		
	Replace gear oil						X	
VARIOUS	Check tyre pressure			O				
	Check all nuts and bolts are tight			O				
	Adjust parking brake					O		
	Check brake oil level			O				X
	Change brake oil							X
	Check boom chains			O				X
	Check stickers			O				
	Tighten pads				O			
	Check chain tension				O			

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SCHEDULE FOR MAINTENANCE AND ADJUSTMENTS

The operations marked with an X must be carried out by your DIECI dealer

GROUP	DESCRIPTION	Period in hours							
		10	50	100	250	500	1000	2000	
LUBRICATION	Arm joint pin		O						
	Jack foot and head pins for flexing		O						
	Jack foot and head pins for lifting		O						
	Jack foot and head pins for levelling		O						
	Jack foot and head pins for for stabilizing feet		O						
	Jack foot and head pins for levelling		O						
	Stabilizing feet assembly pins		O						
	Front and rear wheel pivot pins		O						
	Rear axle oscillation bushing		O						
	Front axle oscillation bushing		O						
	Spiders and cardan drive shafts		O						
	Boom sliding blocks		O						

⚠ - **ATTENTION**:

RUNNING IN

The operations indicated below must be carried out only once when the indicated time period has elapsed after the new vehicle has been put into service. After this adhere to the intervals specified in the general maintenance schedule.

After 10 hours of work:
1 - Check for leaks and eliminate.
2 - Check and tighten all hydraulic connections and nuts and bolts.

After 50hours of work:
1 - Check for leaks and eliminate.
2 - Check and tighten all hydraulic connections and nuts and bolts.
3 - Change hydrostatic transmission filter.

After 250 hours of work:
1 - Change engine oil.
2 - Change engine oil filter cartridge.
3 - Change fuel filter cartridge.
4 - Change hydrostatic transmission filter.

After 500 hours of work:
1 - Change oil onhydraulic circuit.
2 - Change filter cartridge on hydraulic circuit.

⚠ **- ATTENTION:**
IF THE VEHICLE IS DESTINED FOR USE IN CRITICAL CONDITIONS (DUST, MUD, SAND) MAINTENANCE INTERVALS ARE REDUCED BY 50%.

⚠ - ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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OIL COMPARISON TABLE

	ENGINE OIL	HYDRAULIC OIL	AXLES AND GEARBOX OIL	BRAKE FLUID	COOLING FLUID	GREASE
AGIP	SIGMA TURBO	ARNICA/46		DEXRON 2 EXTRA	PERMANENT	GR MU/EP2
CHEVRON	DELO 450 15W40	EP HYDRAULIC 46		DEXRON 2	ANTIFREEZER	DURALITH EP2
ESSO	ESSOLUBE XT 201	INVAROL EP46	TORQUE FLUID 62	ATF DEXRON 2	SIGIL GREEN	BEACON EP2
IP	TAURUS TURBO 15W40	HJDRUS		DEXRON FLUID 2	ANTIFREEZER	ATHESIA EP GREASE2
MOBIL	DELVAC SUPER 1300	HJDRO NV46		ATF 220	ANTIFREEZER	MOBILUX 2
Q8	T700 SAE 15W40	HAENDEL 46		AUTO 14	ANTIFREEZER	SUPER GREASE G2
SHELL	RIMULDA D	TELLUS T46	1 - DONAX TD 2 - LS 90 3 - SPIRAX HD	ATF DEXRON 2	ANTIFREEZER	SUPER GREASE G2
ROLOIL	DOLOMITI SUPER HD TURBO 15W40	LI/46		HIDROMATIC DEX	ROL FLUID	LITEX EP/2
TEXACO	URSA SUPER TD	RANDO HD Z 46		DEXRON 2	ANTIFREEZER	MULTIFAK EP2
TOTAL	RUBIA XT	EQUIVIS ZS/46	1 - DA 2 - JID	DEXRON 2	ANTIFREEZER	MULTIS EP2

FOR THE PRODUCT CONSUMPTION AMOUNTS, CONSULT THE CAPACITY OF PARTS FOR LUBRICATION IN CHAPTER "**H**" (TECNICAL DATA AND VEHICLE TECHNICAL FEATURES)

USE ONLY OLI MOBIL DTE-15-M EQUAL TO HW-46 MOBIL

DO NOT USE SYNTETIC OIL

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- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

LUBRICATION CAPACITY TABLE

Agri FARMER 26.6

PARTS TO LUBRICATE	*DRY CAPACITY (LITERS)*	*CHANGE CAPACITY (LITERS)*
ENGINE OIL	10	9,5
FRONT WHEELS REDUCTION UNIT OIL	0,9	0,9
REAR WHEELS REDUCTION UNIT OIL	0,9	0,9
FRONT AXLE DIFFERENTIAL GEAR OIL	3,5	3,5
REAR AXLE DIFFERENTIAL GEAR OIL	3,8	3,8
GEARBOX OIL	1,5	1,5
HYDRAULIC SYSTEM OIL	130	80
BRAKING CIRCUIT OIL	0,8	0,8
COOLANT	7,0	7,0
AUTOMOTIVE DIESEL OIL	60	60
GREASE (KG)	4,0	---

Agri FARMER 28.7
Agri FARMER 30.7

PARTS TO LUBRICATE	*DRY CAPACITY (LITERS)*	*CHANGE CAPACITY (LITERS)*
ENGINE OIL	10	9,5
FRONT WHEELS REDUCTION UNIT OIL	0,9	0,9
REAR WHEELS REDUCTION UNIT OIL	0,9	0,9
FRONT AXLE DIFFERENTIAL GEAR OIL	3,5	3,5
REAR AXLE DIFFERENTIAL GEAR OIL	3,8	3,8
GEARBOX OIL	1,5	1,5
HYDRAULIC SYSTEM OIL	130	82
BRAKING CIRCUIT OIL	1,0	1,0
COOLANT	7,0	7,0
AUTOMOTIVE DIESEL OIL	60	60
GREASE (KG)	4,0	---

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Agri POWER 30.11
Agri POWER 35.12
Agri POWER 37.13
Agri POWER 40.13 Agri MAX 40.11

PARTS TO LUBRICATE	DRY CAPACITY (LITERS)	CHANGE CAPACITY (LITERS)
ENGINE OIL	10	9,5
FRONT WHEELS REDUCTION UNIT OIL	1,0	1,0
REAR WHEELS REDUCTION UNIT OIL	1,0	1,0
FRONT AXLE DIFFERENTIAL GEAR OIL	7,4	7,4
REAR AXLE DIFFERENTIAL GEAR OIL	7,6	7,6
GEARBOX OIL	1,5	1,5
HYDRAULIC SYSTEM OIL	168	105
BRAKING CIRCUIT OIL	1,2	1,2
COOLANT	7,0	7,0
AUTOMOTIVE DIESEL OIL	105	105
GREASE (KG)	5,5	---

Agri POWER 30.7
Agri POWER 35.7
Agri POWER 30.8
Agri POWER 35.8
Agri POWER 30.9 Agri MAX 45.8

PARTS TO LUBRICATE	DRY CAPACITY (LITERS)	CHANGE CAPACITY (LITERS)
ENGINE OIL	10	9,5
FRONT WHEELS REDUCTION UNIT OIL	1,0	1,0
REAR WHEELS REDUCTION UNIT OIL	1,0	1,0
FRONT AXLE DIFFERENTIAL GEAR OIL	7,4	7,4
REAR AXLE DIFFERENTIAL GEAR OIL	7,6	7,6
GEARBOX OIL	1,5	1,5
HYDRAULIC SYSTEM OIL	155	105
BRAKING CIRCUIT OIL	1,2	1,2
COOLANT	7,0	7,0
AUTOMOTIVE DIESEL OIL	105	105
GREASE (KG)	4,0	---



- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

Agri MAX 70.10

PARTS TO LUBRICATE	*DRY CAPACITY (LITERS)*	*CHANGE CAPACITY (LITERS)*
ENGINE OIL	10	9,5
FRONT WHEELS REDUCTION UNIT OIL	1,9	1,9
REAR WHEELS REDUCTION UNIT OIL	1,9	1,9
FRONT AXLE DIFFERENTIAL GEAR OIL	7,2	7,2
REAR AXLE DIFFERENTIAL GEAR OIL	7,5	7,5
GEARBOX OIL	1,5	1,5
HYDRAULIC SYSTEM OIL	160	105
BRAKING CIRCUIT OIL	1,5	1,5
COOLANT	7,0	7,0
AUTOMOTIVE DIESEL OIL	105	105
GREASE (KG)	5,5	---

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Agri STAR 35.10
Agri STAR 33.11

PARTS TO LUBRICATE	DRY CAPACITY (LITERS)	CHANGE CAPACITY (LITERS)
ENGINE OIL	10	9,5
FRONT WHEELS REDUCTION UNIT OIL	1,0	1,0
REAR WHEELS REDUCTION UNIT OIL	1,0	1,0
FRONT AXLE DIFFERENTIAL GEAR OIL	7,4	7,4
REAR AXLE DIFFERENTIAL GEAR OIL	7,6	7,6
GEARBOX OIL	1,5	1,5
HYDRAULIC SYSTEM OIL	140	100
BRAKING CIRCUIT OIL	1,2	1,2
COOLANT	7,0	7,0
AUTOMOTIVE DIESEL OIL	95	95
GREASE (KG)	5,0	---

Agri STAR 37.7
Agri STAR 37.8

PARTS TO LUBRICATE	DRY CAPACITY (LITERS)	CHANGE CAPACITY (LITERS)
ENGINE OIL	10	9,5
FRONT WHEELS REDUCTION UNIT OIL	1,0	1,0
REAR WHEELS REDUCTION UNIT OIL	1,0	1,0
FRONT AXLE DIFFERENTIAL GEAR OIL	7,4	7,4
REAR AXLE DIFFERENTIAL GEAR OIL	7,6	7,6
GEARBOX OIL	1,5	1,5
HYDRAULIC SYSTEM OIL	140	100
BRAKING CIRCUIT OIL	1,2	1,2
COOLANT	7,0	7,0
AUTOMOTIVE DIESEL OIL	95	95
GREASE (KG)	4,0	---

- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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MAINTENANCE AND ADJUSTMENTS

Preliminary service inspection

Once your new DIECI VEHICLE has completed 50 hours work, the instructions given in the chapter GUARANTEE should be carefully followed.

Hour Counter
(fig.1/D Pos."1")

The engine hour counter shows how many hours the vehicle has worked. The first figure on the right, a black figure on a white background, indicates tenths of an hour. The other figures are white on a black background. Use the counter to ensure maintenance is carried out at the correct intervals.

Routine maintenance

This chapter provides complete details on the correct procedure to be followed in order to maintain the vehicle in perfect working order. This chapter also gives information as to how to carry out the various adjustments necessary to keep the vehicle tuned. The vehicle must receive regular routine maintenance in order to give the best results. It is recommended that all services are carried out as prescribed in the service schedule recommended by DIECI. Remember that it is the owner's responsibility to keep the vehicle in safe working condition and suitable to be driven on public and private roads.

Maintenance is best carried out indoors and at the end of a working day so that all oils are hot and can be easily drained off. (pag. D5/D6).

Before starting any maintenance work whatsoever, switch off the engine, remove the key from the ignition, position wedges under the wheels and appropriate locks on the hydraulic cylinders.

Before using a greasing gun, clean the pipes.

Before removing the draining and fuelling caps, clean the surrounding area.

Always use a clean container to collect used oil and fuel.

Protecting the environment

It is illegal to pollute sewers, culverts or the soil. Use only authorised collection centres, including the areas designated by the local authorities or workshops equipped with the necessary tools for the disposal of used oils. If in doubt, contact your local authority for relevant instructions.



(fig.1/D)

SAFETY REGULATIONS DURING MAINTENANCE

⚠ - **ATTENTION**: When changing the oil, certain basic rules for personal hygiene should be respected. Before changing the oil, apply a suitable protective hand cream. Wear protective clothing, overalls, gloves in PVC, etc.

Once the oil has been changed, wash away any contact with the dirty oil. Any clothing dirtied by the oil should be removed and washed. Prolonged contact with oil, can be harmful to your health, for this reason it is important that the instructions given above are followed.

Vehicle maintenance

Keep hands, tools and clothing well away from all moving parts. Do not touch the pipe and exhaust manifold which could be hot and could cause burns.

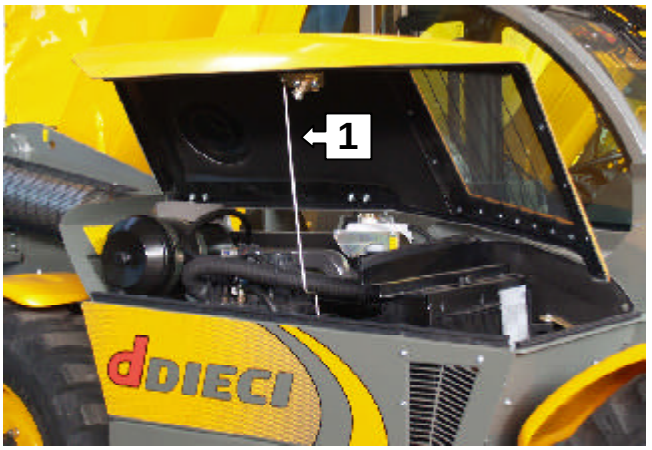
Do not allow anyone who is not expert to get too close to the vehicle.

Do not work underneath the vehicle with a jack as your only means of support. Place some tripods under the vehicle as a safety measure.

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OPENING THE ENGINE BONNET

To open the engine bonnet, pull the handle located in the cab, lift the bonnet and block it with the rod (fig.2/D Pos."1").



(fig.2/D)

ENGINE

FOR MAINTENANCE OF THE ENGINE, AIR FILTER, FUEL FILTER ETC. STRICTLY OBSERVE THE MANUFACTURER'S INSTRUCTIONS GIVEN IN THE RELEVANT HANDBOOK.

THE ENGINE USE AND MAINTENANCE HANDBOOK IS AN INTEGRAL PART OF THE DOCUMENTATION SUPPLIED WITH THE VEHICLE.

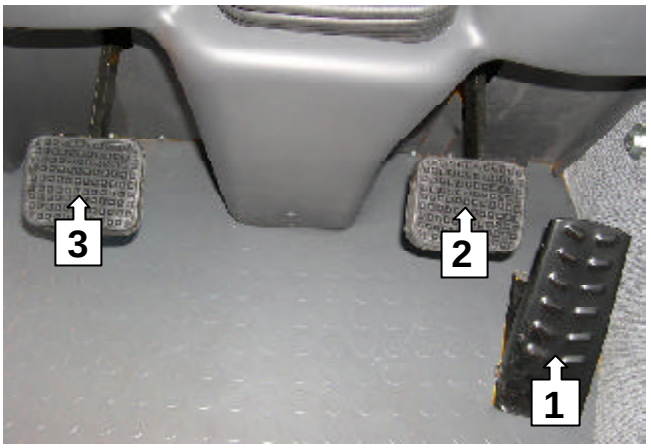


(fig.3/D)

- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

PEDALS

- Accelerator (fig.4/D Pos.”1”)
- Brakes (fig.4/D Pos.”2”)
- Control (inching) of hydrostatic engine (fig.4/D Pos.”3”)



(fig.4/D)

PEDALS (MAINTENANCE)

Accelerator
(fig.4/D Pos.”1”)

The injection pump is hydraulically controlled.
Check the reservoir regularly.

Brakes
(fig.4/D Pos.”2”)

Consult the Summary Table at the start of the chapter to know how often this should be done (fig.5/D Pos.”1”)
Check the reservoir regularly D/7.

Hydraulic brakes do not need adjusting.

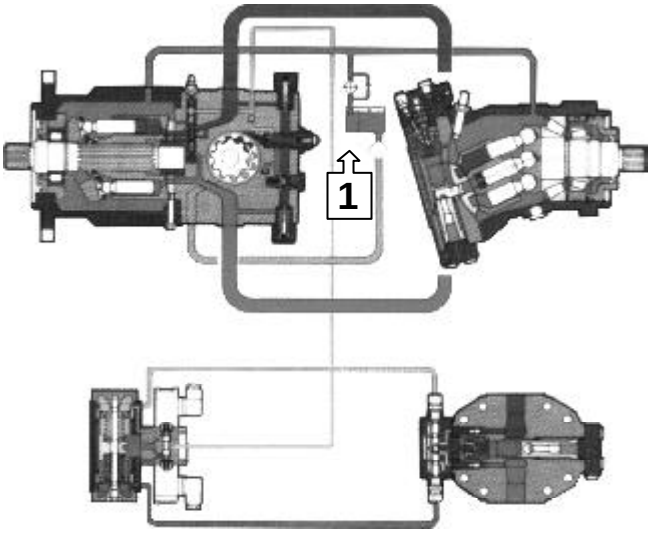


(fig.5/D)

Control (inching) of hydrostatic engine
(fig.4/D Pos.”3”)

Adjusting:
This pedal does not need adjusting, because it is connected directly to the INCHING valve (fig.6/D Pos.”1”) which hydraulically controls the functions and movements of the hydrostatic engine.

⚠ - **ATTENTION**:
If the pedal can be pushed down too far or seems too ‘elastic’, contact your DIECI dealer to have this fault corrected.



(fig.6/D)

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BRAKES

Brake fluid
(fig.7/D)

Consult the Summary Table at the start of the chapter to know how often this should be done (page D/5).

- **ATTENTION**:
it is essential that the following safety precautions regarding the brake fluid are strictly observed:

- Always keep the fluid in its original container.
- Keep it out of children's reach.
- Do not mix it with other fluids or oils.
- Keep the container tightly sealed.
- Avoid any contact with skin or eyes.
- Wear appropriate protective clothing and gloves.
- If any fluid should get into contact your eyes, rinse them immediately with plenty of water and consult a doctor.
- If any fluid should get onto your skin, wash the area carefully, take off any contaminated clothing, and if the skin seems dry, apply a moisturising cream.
- If any fluid is swallowed, consult a doctor. Show him the label or the container.
- Only use the brake fluid recommended by DIECI (See pag.D/7 oil comparison table).

To top up the brake fluid in the tank (fig.7/D Pos."1"), unscrew the cap from the tank and make sure it is full.

- **ATTENTION**:
Check the condition of all brake pipes regularly, including flexible pipes.

Contact your DIECI dealer to have any damaged, corroded or worn pipes replaced.

- **ATTENTION**:
Always use the recommended type of oil, as indicated in the lubrication table (See pag.D/7 oil comparison table).

PARKING BRAKE
(fig.8/D)

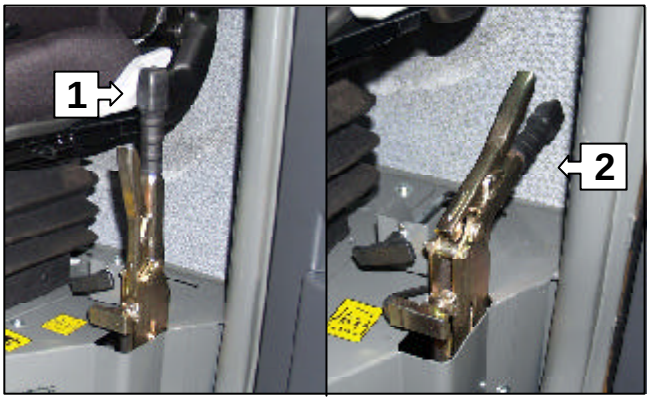
- **ATTENTION**:
The parking brake must be pulled on until the lever is in a vertical position (fig.8/D Pos."1").
To correctly adjust the parking brake, lower the lever completely (fig.8/D Pos."2") then turn the rubber grip to reduce the idle stroke. If this is not sufficient, use the adjusting screw (fig.9/D Pos."1"). Electrically-operated parking brake (fig.10/D), absolutely free from routine maintenance.

- **WARNING**:
If the brake is not very efficient or flexible, contact the dealer of DIECI to eliminate the defect.

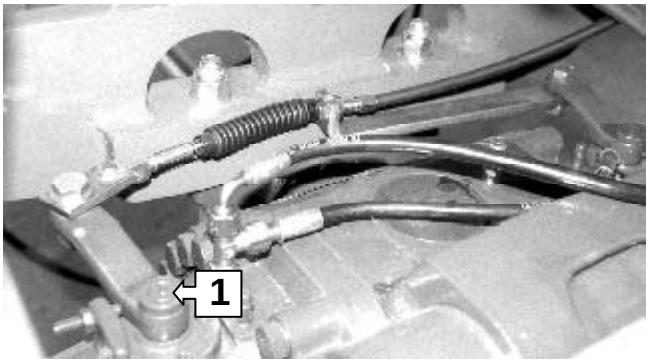
- **WARNING**:
Have the parking brake registered by an authorised DIECI garage according to the imposed intervals.
Test the machine each time the brakes are registered.



(fig.7/D)



(fig.8/D)



(fig.9/D)



(fig.10/D)

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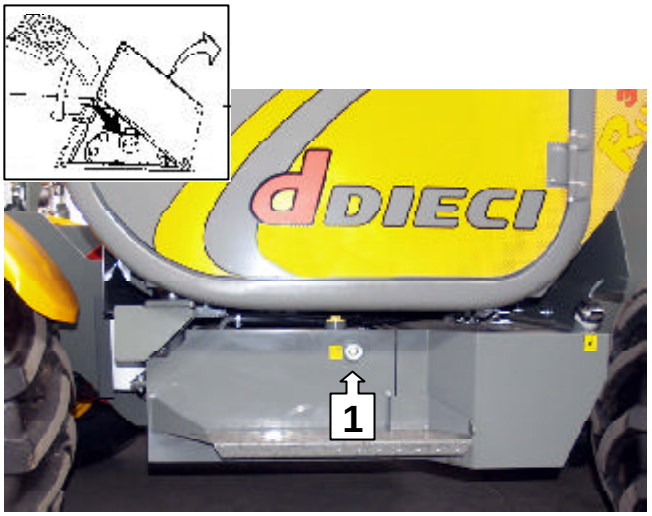
HYDRAULIC OIL

Hydraulic oil level
(fig.11/D Pos.”1”)

Routine maintenance should be carried out at the prescribed intervals (pag. D/5).

For normal use of the machine, the oil level should be kept visible in the appropriate transparent indicator on the hydraulic oil tank.

1. Park the vehicle on a level surface, retract and lower the boom.
2. Switch off the engine.
3. Check the oil level on the transparent indicator.
4. If necessary, remove the cap from the tank (fig.12/D Pos.”1”) and top up with oil until the correct level has been reached (fig.11/D Pos.”1”).



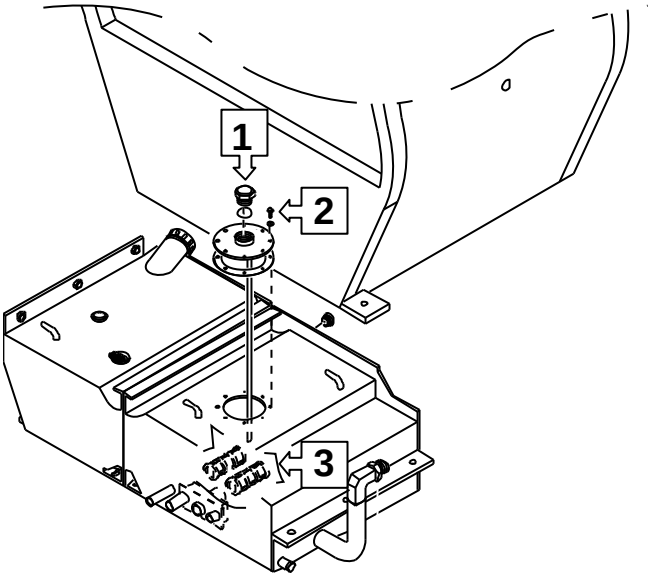
(fig.11/D)

Changing the oil and filters
(fig.12/D)

Consult the Summary Table at the start of the chapter to know how often this should be done (pag. D/5)

Changing the oil suction filter on the hydrualic circuit.

1. Park the vehicle on a level surface.
2. Retract the boom completely, lower it and position the stabilizing feet vertically.
3. Switch off the engine and remove the ignition key.
4. Place a container under the drain cock (located under the tank).
5. Remove the intake and drain plug to drain the oil away (fig.12/D Pos.”1”).
6. Unscrew the bolts from the tank covering plate (fig.12/D Pos.”2”)
7. Unscrew the filters (fig.12/D Pos.”3”) located inside the tank using an adjustable screw spanner.
8. Mount the new filters tightening them with the spanner.
9. Replace the drain plug and cap. Then refill the tank through the refuelling opening (fig.12/D Pos.”1”).
10. Check the level after the engine has been started up and after moving all hydraulic controls to expel any air bubbles.



(fig.12/D)

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HYDRAULIC AND HYDROSTATIC CIRCUIT OIL FILTER

N.B.:
The illustrations provided are only an indication and may not correspond to the vehicle in your possession.

Changing the oil filter on the hydrostatic circuit.

Consult the Summary Table at the start of the chapter to know how often this should be done (pag.D/5)

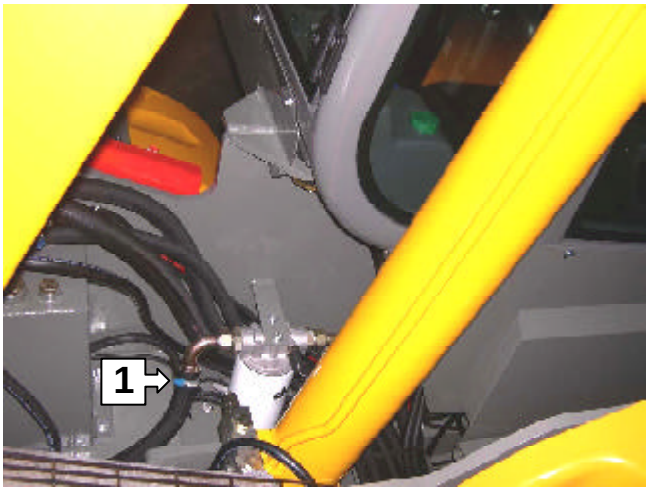
The oil filter on the hydrostatic circuit
(fig.13/D, 14/D e 15/D Pos."1")

Arranged in different points based on the model.

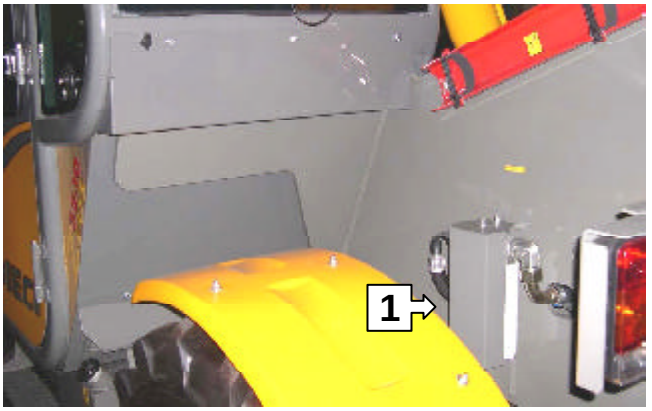
1. Place a container under the filter to collect the oil pouring out.
2. Remove the filter cartridge using a ribbon spanner or similar tool.
3. Clean the filter fitting making sure the old sealing ring is removed. Grease the new sealing ring with a few drops of oil.
4. Mount the new cartridge and tighten it only by hand. DO NOT use a spanner.
5. Run the engine and check for any leaks. Recheck the oil level and top it up if necessary.



(fig.13/D position of oil filter Agri MAX - Agri POWER)



(fig.14/D position of oil filter Agri FARMER)



(fig.15/D position of oil filter Agri STAR)

- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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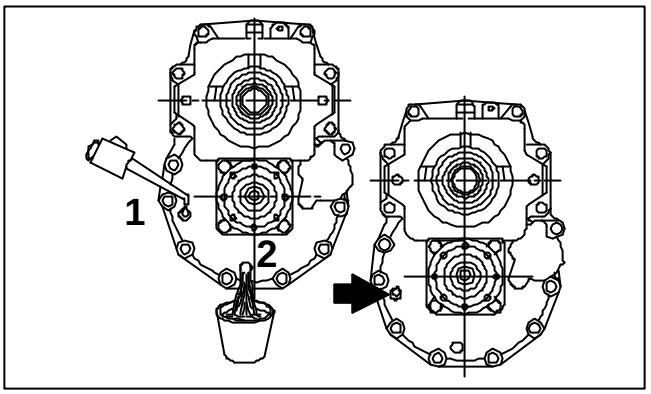
GEARBOX AND DIFFERENTIAL AXLES

N.B. THE ILLUSTRATIONS PROVIDED ARE ONLY AN INDICATION AND MAY NOT CORRESPOND TO THE VEHICLE IN YOUR POSSESSION.

Consult the Summary Table at the start of this chapter to know how often this should be done (pag. D/5)

Gearbox:
Changing the oil (fig.16/D)

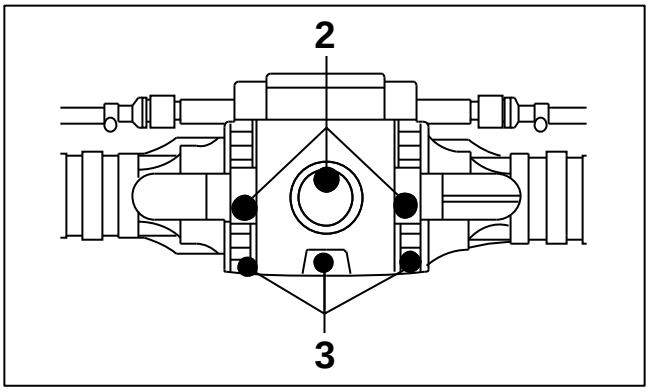
1. With the vehicle on a level surface, place a container under the gearbox and then remove the drain plug (2) and the oil level cap (1).
2. Leave the oil to drain away completely.
3. Replace the drain plug and tighten it securely.
4. Refill with the correct type of oil through the opening (Pos."1") until it reaches the right level.



(fig.16/D)

Differential axle:
Changing the oil (fig.17/D)

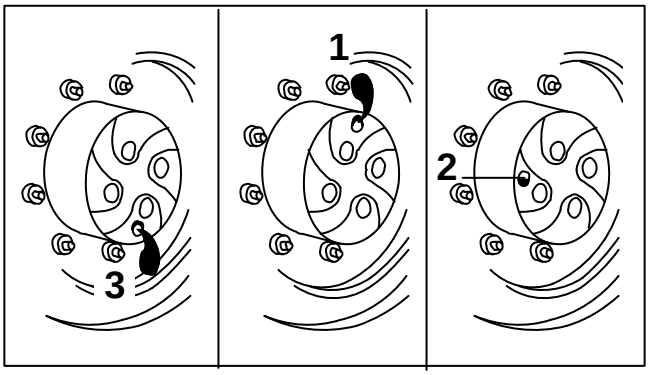
1. With the vehicle on a level surface, place a container under the plug on the differential axle and then remove the drain plug (3) and the oil level cap (2).
2. Leave the oil to drain away completely.
3. Replace the drain plug and tighten it securely.
4. Refill with the correct type of oil through the opening (Pos."2") until it reaches the right level.



(fig.17/D)

Epicycloidal reduction gear:
Changing the oil (fig.18/D)

1. Turn the wheel hub so that the oil plug is in the lower position and drain off the oil into a container (3).
2. Turn the hub so that the oil plug is in the upper position and add the recommended type of oil (1).
3. To check if enough oil has been added, simply turn the wheel hub until the oil plug is in the middle position (2).
4. The above procedure should be repeated for all four reduction gear assemblies.



(fig.18/D)

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TYRES

Check tyre pressure every 100 hours and every two weeks.

Consult the Summary Table at the start of the chapter to know how often this should be done (pag. D/5).

Check and adjust tyre pressure and make sure that the tread and sides are not damaged. Pressure should be checked when the tyres are cold.

1. Keep all oils, grease and corrosive liquids well away from the tyres to prevent any damage to the rubber.
2. Tyres which have any cuts or are excessively worn should be replaced immediately.

PRESSURE

Tyre pressure must be kept at the level indicated in the Table. The tyre pressure given corresponds to the recommendations of the manufacturer, and should therefore be respected as far as possible.

Check the size of the tyres installed and the ply number to ensure they are inflated to the correct pressure.

SPECIFICATIONS

MISURA PNEUMATICO TYRES DIMENSIONS DIMENSION DES PNEUS DIMENSION DE LOS NEUMATICOS REIFENMASS	CARATTERISTICHE DETAILS CARATTERISTIQUES CARACTERISTICAS EIGENSHAFTEN	BAR
10.5-18	10PR	3,75
12,5-18	16PR	5,0
12,5 20	12PR	3,5
18-19,5	16PR	4,5
16/70-20	14PR	3,5
18 22,5	16PR	3,5
405/70-20 (16/70-20)	14PR	3,5
405/70R20 (16/70R20)	152J	6,0
405/70-24 (16/70-24)	14PR	4,0
405/70R24 (16/70R24)	152J	5.0
445/65-22,5 (18-22,5)	163A8 (16PR)	4,5
445/65R22,5	168A8	8,0
445/65R22,5	169F	8,0
14.00-24	16PR	3,75

To ensure maximum efficiency do not use tyres with more than 80% wear.

⚠ - **ATTENTION**:
When inflating the tyres for the first time, make sure all persons not involved stay well away from the area and use adequate protection (fig.19/D).

Inflate the tyres to the pressure specified.
Do not inflate beyond the levels indicated in the table.

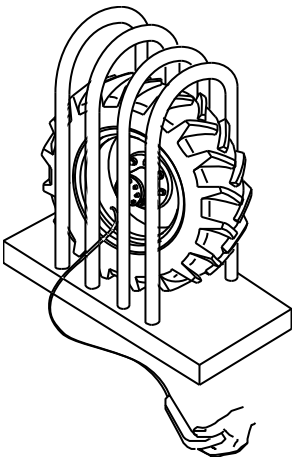
⚠ - **ATTENTION**:
Always remain to one side of the tyres when checking the tyres on the vehicle and inflating them to the correct level.

TIGHTENING WHEEL NUTS

⚠ - **ATTENTION**:
When tightening the nuts on the wheels, the torque should correspond to the following table.

WHEEL STUD	⌀ 18	kgm 50
WHEEL STUD	⌀ 22	kgm 60

⚠ - **ATTENTION**:
Always tighten the nuts positioned opposite each other (and not consecutively)



(fig.19/D)
Inflation cage

⚠ - ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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NON-RETURN VALVES OF THE CYLINDERS

The “block” of non-return valves of the cylinders prevents the cylinder pistons from moving out of control in the case of a hydraulic pressure failure or if a hose should burst. The valves are fitted directly on the cylinders.

Checking the non-return valves of the cylinders.

⚠ - **ATTENTION**:
Nobody must approach the machine while the valves are being inspected.

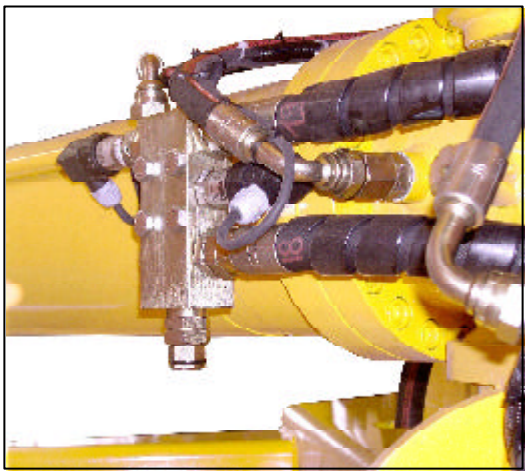
Check one movement at a time.

1) Boom lifting cylinders:

A - Start the engine. make sure the parking brake is engaged and that the gears are in neutral.

B - Lift the boom by roughly 45°.

C - With the engine running at an average rpm, operate the control levers to lower the boom. Stop the engine while the boom is lowering. The boom movement should slow down and stop when the engine slows down and stops. If the boom continues to move after the engine has stopped, it means that the non-return valves of the lifting cylinders are faulty. Do not use the machine until it has been repaired.



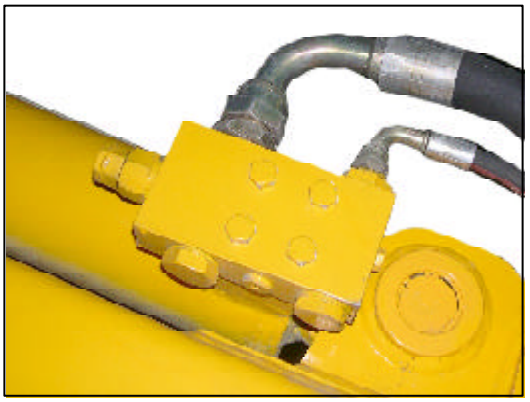
(fig.20/D) (Boom lifting cylinder)

2) Boom extension cylinder:

A - Start the engine. Make sure that the parking brake is engaged and the gears in neutral.

B - Lift the boom right up and extend it right out.

C - With the engine running at an average rpm, operate the control level to retract the boom. Stop the engine while the boom is moving. The boom movement should slow down and then stop when the engine slows down and stops. If the boom continues to move after the engine has stopped, it means that the non-return valve is faulty. Do not use the machine until it has been repaired.



(fig.21/D) (Boom extension cylinder)

3) Forks forward/backward tilting cylinder:

A - Lift a load on the forks (for example, lift a pack of tiles or some bales of hay). Tilt the forks right back. Make sure that the parking brake is engaged and the gears in neutral.

B - Move the boom away from the ground just enough to tilt the forks forward.

C - With the engine running at an average rpm, operate the control level to tilt the forks foward. Stop the engine while the forks are moving. The tilting movement should slow down and then stop when the engine slows down and stops. If the forks continue to lower or move after the engine has stopped, it means that the non-return valve is faulty. Do not use the machine until it has been repaired.



(fig.22/D) (Forks forward/backward tilting cylinder)

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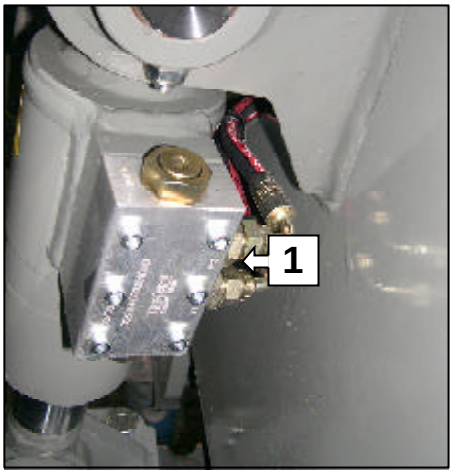
4) Levelling cylinder: (fig.23/D)

A - Position the machine on perfectly flat and level ground.

B - Lift the boom roughly 15 cm off the ground and level the machine so that the chassis is perfectly parallel to the ground (Check if it is level on the instrument on the right-hand dashboard).

C - Without touching the levelling control, check if the machine holds this position even after it has been working for quite some time.

⚠ - **ATTENTION**:
Never use the levelling control while the boom is raised and extended.



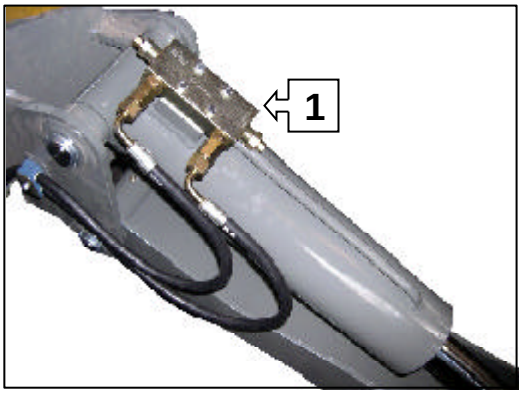
(fig.23/D) (Levelling cylinder)

5) Outrigger cylinders: (fig.24/D)

A - With the outriggers down, check if they give.

⚠ - **ATTENTION**:
Do not lift or lower the outriggers while the boom is raised.

⚠ - **ATTENTION**:
Make the movement while the engine is just ticking over.



(fig.24/D) (Outrigger cylinder and outrigger extension cylinder)

⚠ - ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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NOTES FOR MAINTENANCE WHEN LUBRICATING WITH GREASE

Lubrication helps to eliminate friction when vehicle and attachment parts are in motion, it prevents wear and tear and eliminates noise which might be created if joints are used dry.

Lubrication must be carried out using either grease or oil. Maintenance by lubrication requires: injecting grease through the oilers.

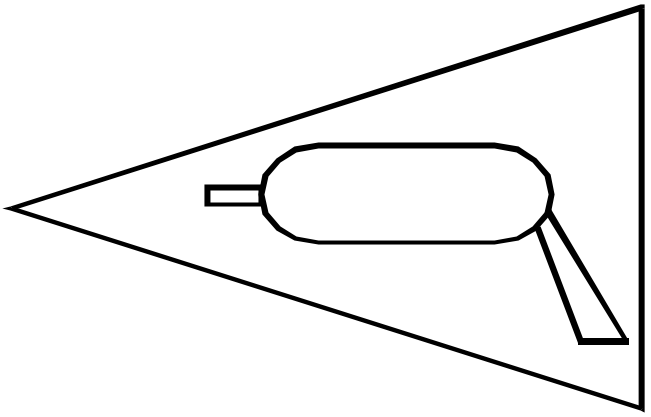
Always and only use lubricants specified and suitable for working temperatures.

Always clean the oilers before injecting the grease; after lubrication, remove any grease that has spilled out; cleaning should be carried out scrupulously on rotating parts.

If the vehicle is used in critical conditions, this maintenance work should be carried out more frequently.

When greasing maintenance work is being carried out, the attachments should be laid out flat on the ground. When lubricating, use a syringe filled with the prescribed type of grease. (See“LUBRICANTS”).

As a general rule, it should be kept in mind that every cylinder is equipped with two oilers located on the attachment points and that every pin which serves as a fulcrum for movement is equipped with at least one oiler.



This symbol, on a yellow background, can be found on the vehicle in correspondance to the parts to be greased.

N.B.: THE ILLUSTRATIONS SHOWN ARE ONLY AN INDICATION AND MAY NOT BE THE SAME AS THE PARTS FITTED ON YOUR VEHICLE OR MAY REFER TO A DIFFERENT MODEL

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TELESCOPIC ARM - BOOM (GREASING)

The vehicle boom is divided into the following parts:

1°- outer arm

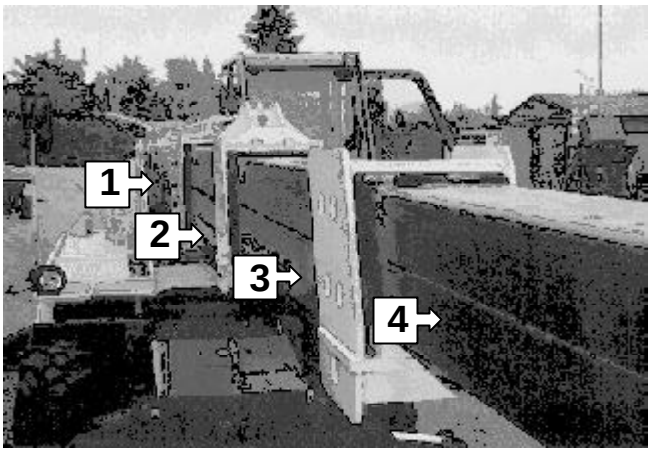
2°- middle arm “A”

3°- middle arm “B”

4°- inner arm “C”

The arms slide along antifriction sliding blocks made of teflon.

Consult the Summary Table at the start of this chapter to know how often these should be tightened (pag.D/5)

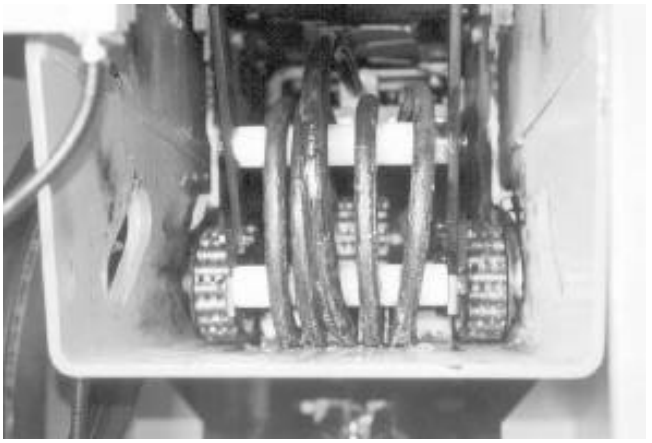


(fig.25/D)

(Sliding block torque 6 Kgm)



(fig.26/D)



(fig.27/D)

Clean and grease the boom sliding blocks.
This should be carried out every 20 working hours for the first 60 working hours.
Consult the Summary Table at the start of this chapter to know how often this should then be done (pag.D/5)

- Extend the boom completely (fig.25/D), using a brush (fig.26/D), apply a layer of grease (see the table for oils and grease) to all 4 sides of the arms “A” “B” “C”.
- Open and close the boom several times to distribute the grease evenly.
- Remove any excess grease.
- With the boom extended, lubricate the 4 inner sides of the outer arm from the rear part of the boom using a brush with a long handle (fig.27/D).



(fig.28/D)



(fig.29/D)



(fig.30/D)

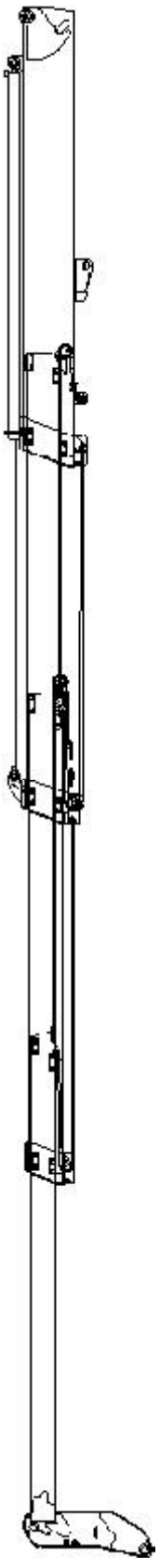
Rollers and chains for extending and closing the boom.

Consult the Summary Table at the start of this chapter to know how often these need tightening and how often they wear out (pag.D/5)
(Small chain torque 5 Kgm large chain 8 Kgm)

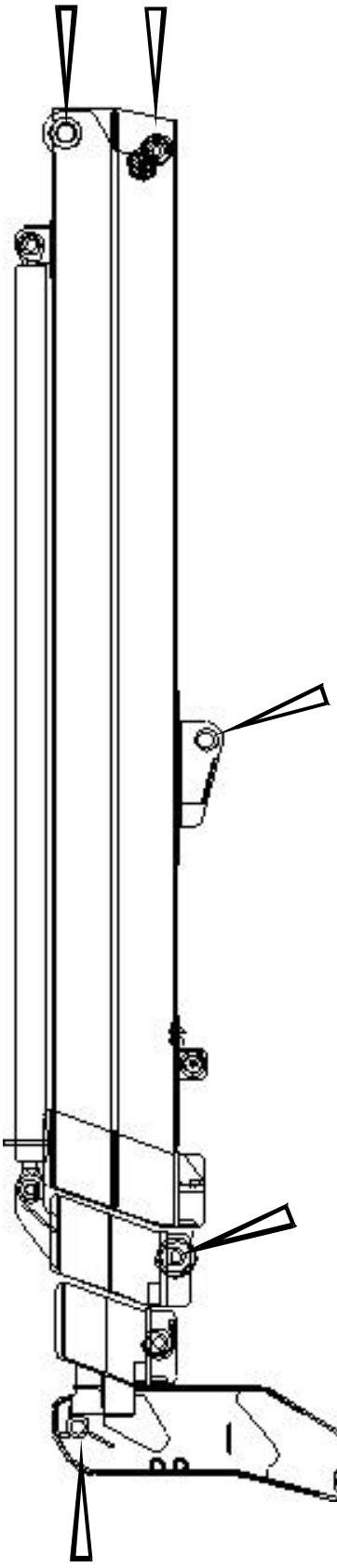
- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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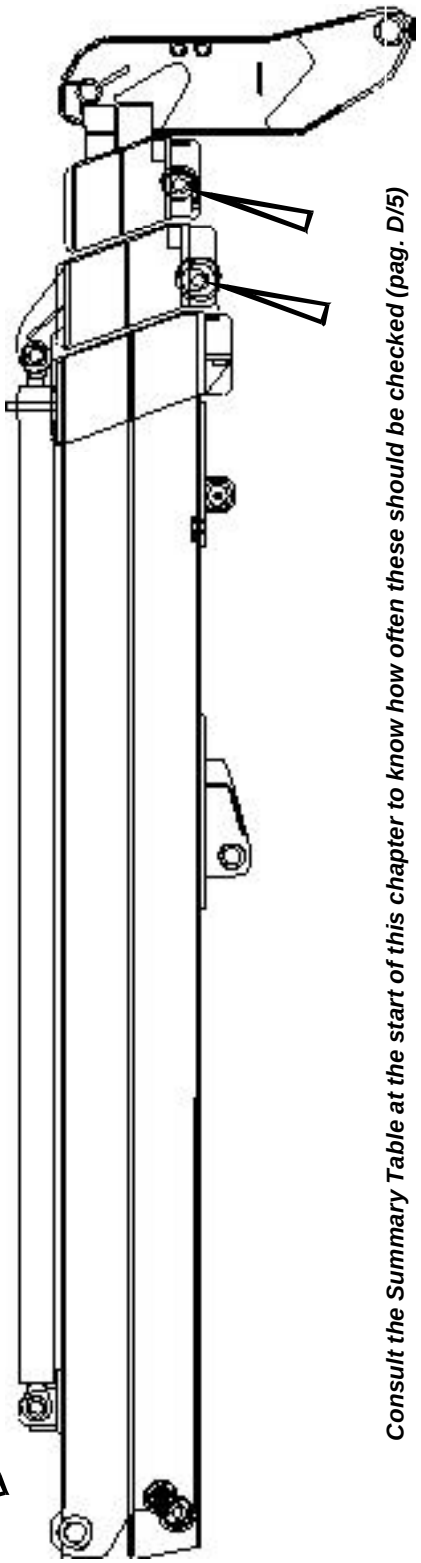
PARTS TO BE LUBRICATED WITH GREASE



(fig.31/D)



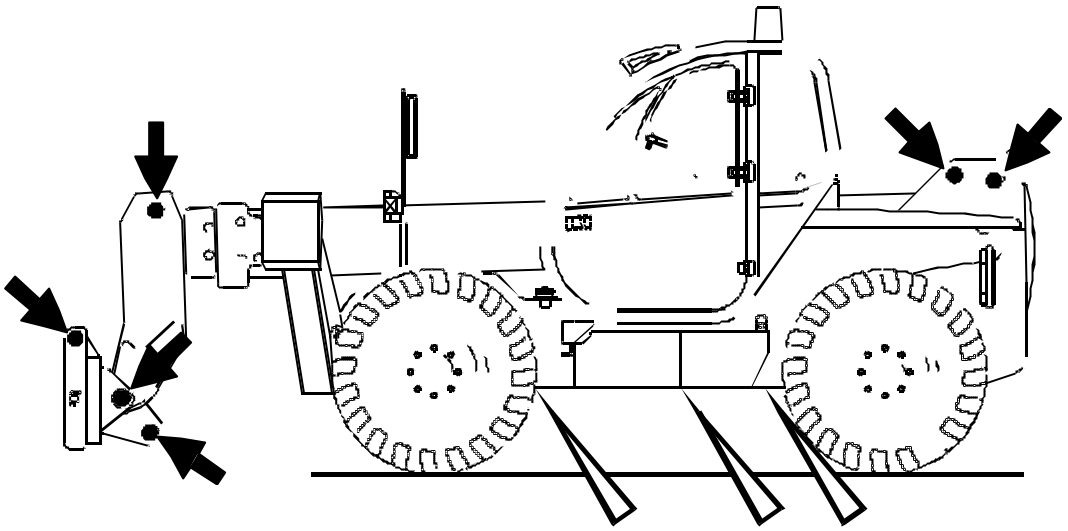
(fig.32/D)



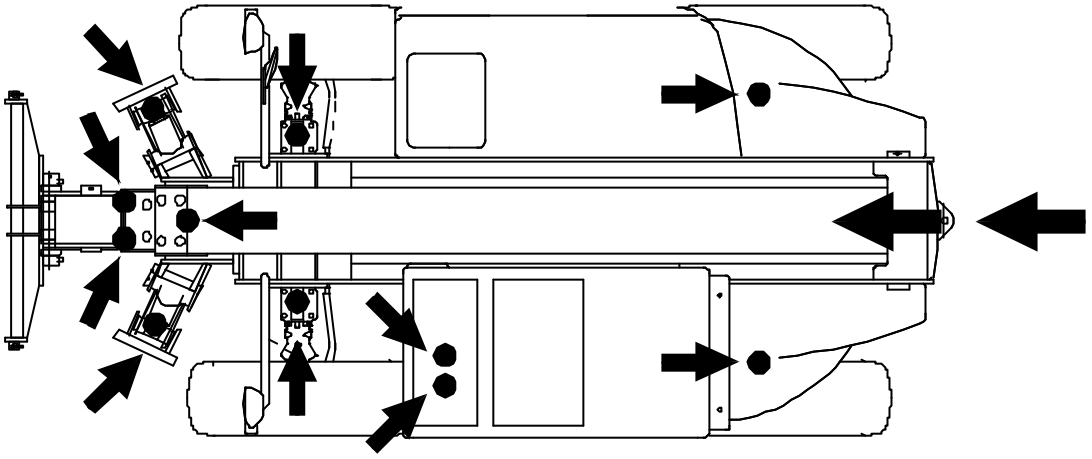
(fig.33/D)

Consult the Summary Table at the start of this chapter to know how often these should be checked (pag. D/5)

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(fig.34/D)



(fig.35/D)

OILERS

Oilers on right hand arm (3 extensions)
(fig.32/D)

- oilers for arm articulation pin (1 place)
- oilers for jack foot and head pins for horizontal movement (2 places)
- oilers for jack foot and head pins for lifting (2 places)
- oilers for movement of attachment holding plate (1 place)
- oilers for arm rollers and chains (1 front place 3 rear places on inner arm)

Oilers on left hand arm
(fig.33/D)

- oilers for movement of attachment holding plate (1 place)
- oilers for arm rollers and chains (2 places)

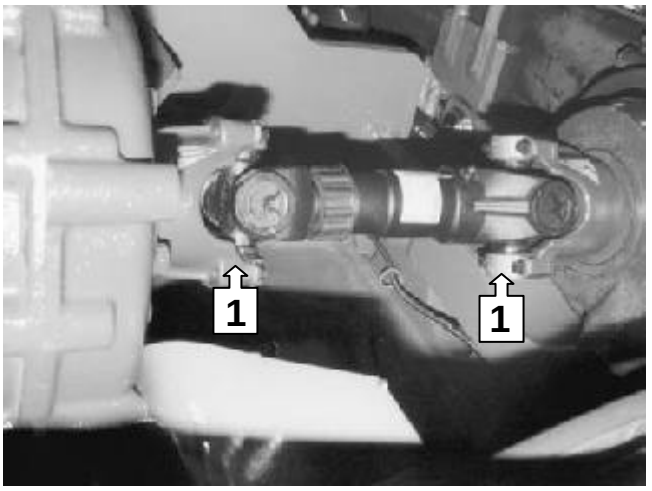
Arm oilers for 1 or 2 extensions
(fig.34/D)

Oilers on front and rear stabilizers
(fig.35/D)

- oilers for jack foot and head pins for stabilizing feet (4 places)
- oilers for fulcrum arms on stabilizing feet (4 places)

Oilers for spiders and cardan joints on transmission shafts
(fig.36/D)

- oilers (6 places)



(fig.36/D) (Transmission shafts and cardan joints)

- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

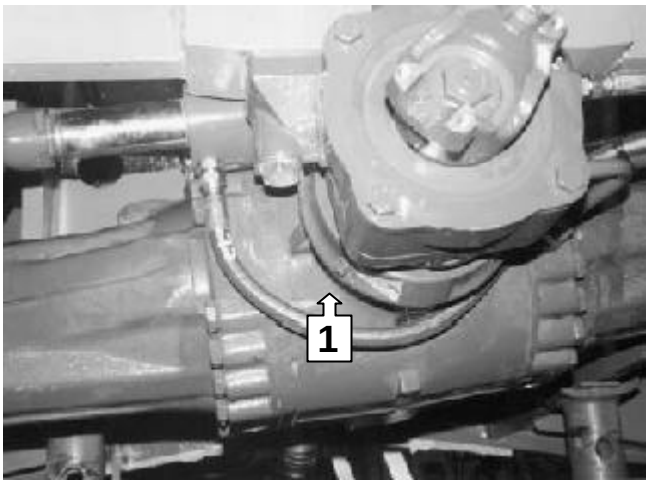
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TRANSMISSION SHAFTS

Consult the Summary Table at the start of this chapter to know how often this should be done (pag.D/5)
Grease the places shown until the grease spills out.

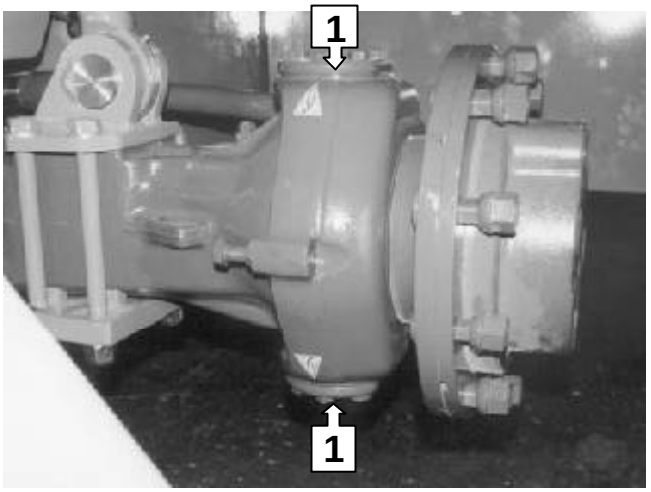
- ATTENTION:
Check that nuts and bolts are tightened on the shaft coupling flanges.

(fig.37/D)
Oilers for oscillation of rear and front axle
(4 places)



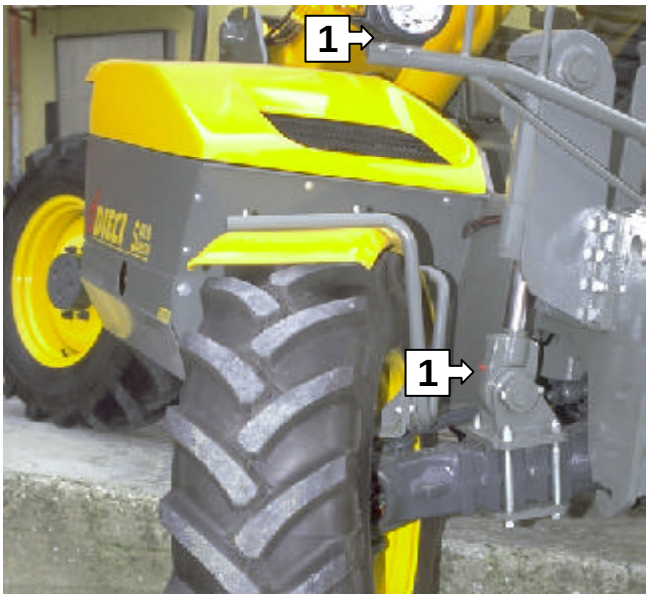
(fig.37/D) (Oscillation of front and rear axle)

(fig.38/D)
Oilers for articulated pins (PIVOT) on front and rear wheels
(8 places)



(fig.38/D) (Articulated pins "PIVOT")

(fig.39/D)
Oilers for jack foot and head pins for levelling
(2 places)



(fig.39/D) (Levelling cylinder)

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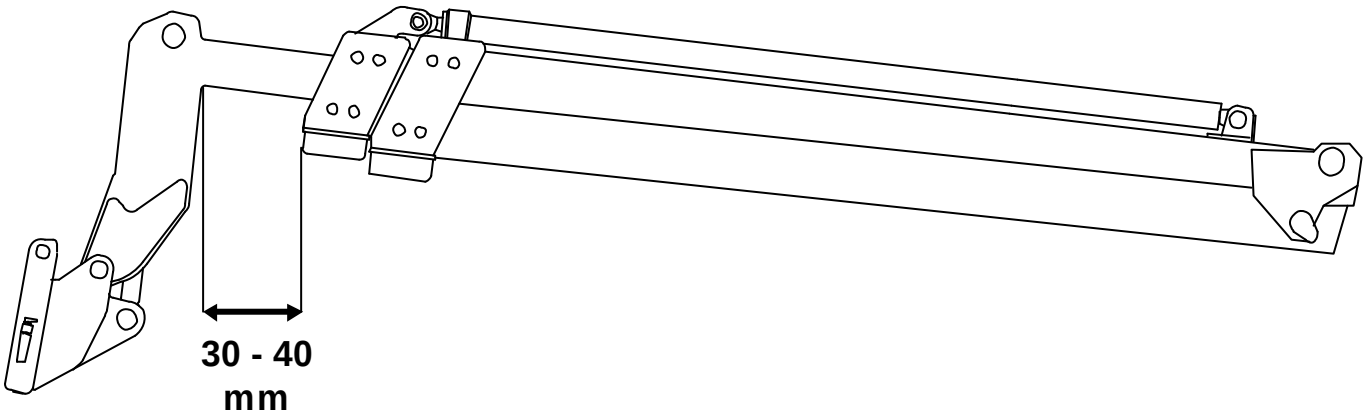
RETIMING THE BOOM

Only for vehicles with telescopic arms with 2 extensions.

⚠ - **WARNING**:
Do not leave the machine parked with the boom raised and extended for more than two days to avoid boom displacements. If the machine is to be left parked for an uncertain amount of time, it is mandatory to open and completely close the boom every two days.

⚠ - **ATTENTION**:
if the telescopic arm is out of timing (fig.64/D), press the push-button, located on the joy stick, for the extension retraction and the arm will automatically be retimed. (Retract the 2° extension completely)
If the problem persists contact Dieci service.

⚠ **- ATTENTION: if the timing is out by more than 40 mm as illustrated (fig.40/D), there is a risk that the hydraulic and electric tubes and cables inside the arm may break.**



(fig.40/D)

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ELECTRIC CIRCUIT

⚠ - **ATTENTION**:
The reliability of the electric system as a whole might be damaged if components are not installed by experts. If in any doubt, contact your nearest DIECI dealer.

To prevent any damage to the alternator, be sure to take the following precautions during maintenance:

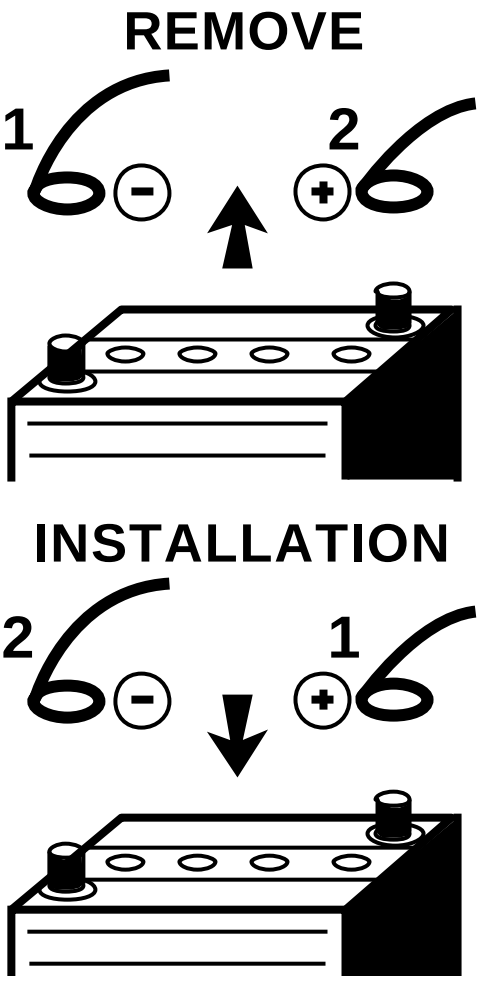
- DO NOT disconnect the battery when the engine is switched on.
- NEVER short circuit the system.
- ALWAYS disconnect the earth cable from the battery before doing any arc-welding on the vehicle.
- ALWAYS disconnect the earth cable from the battery when recharging it with a suitable transformer.
- ALWAYS make sure the polarity is correct when putting in the battery or when using an auxiliary battery to start the engine.

ALWAYS connect up the negative wire first.

Clamp and positive wire, marked + (red)
Clamp and negative wire, marked - (black)
The electric circuit runs on 12 V with an earthed negative pole. Check and make sure all wires are properly and firmly connected, that they do not rub up against any sharp edges and the clamps have been firmly tightened.

⚠ - **ATTENTION**:

NOTE: Repairs should be carried out wit the utmost precision, as the electric circuit might otherwise be irreparably damaged.



(fig.41D)

BATTERY CUT OUT

(fig.34/D Pos."1")

⚠ - **ATTENTION**:

CAUTION: Use this switch only when the engine is at a halt.

This is a safety device which allows the operator to isolate the battery in case of an emergency, or when carrying out repairs. It is mandatory to disconnect the electrical system of the machine via the battery disconnector before carrying out any maintenance jobs in which the motor is to be stopped.

To break the electric circuit:

1. Switch off the engine.
2. Turn the battery cut out anticlockwise to the off position.



(fig.42/D)

⚠ - ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

STARTING THE ENGINE WITH JUMP LEADS

When starting the engine from another vehicle, connect up the accumulators in parallel. When connecting up the leads, avoid contact between the positive lead (+) and the negative lead (“A”). Always wear protective goggles, when starting up the engine with jump leads.

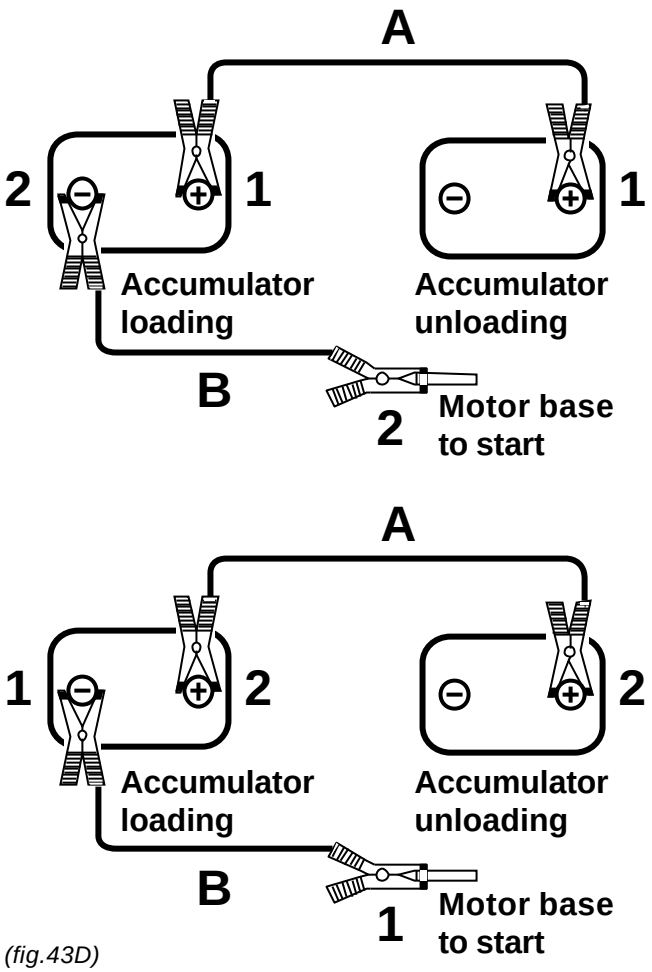
Tare care to avoid contact between the vehicle to be started up and the vehicle which has to supply the power, in order to avoid sparks and consequently explosions caused by the hydrogen produced by the accumulators. If the accumulator explodes, it could cause serious damage and injury.

Make sure you never change over the starting leads and connect up lastly the ground cable (-) the furthest away from the accumulator as possible.

Use great care when removing the starting leads; make sure that when the leads are disconnected from the accumulator, they do not touch other parts of the vehicle. This will prevent any hydrogen explosions.

The leads and the clips must be suitable for the power charge to be transferred. The accumulator to be used to start up the vehicle, must have a greater capacity or at least an equal capacity to the engine to be jump started.

Make sure the cables and clips are not corroded or damaged. Make sure the clips grip the terminals firmly.



(fig.43D)

CONNECTING UP THE LEADS AND STARTING THE ENGINE

1 - Make sure the ignition key is in position <**O**>.

2 - Connect up the positive poles (+) on the two accumulators (A).

3 - Connect the cable on the negative terminal (-) of the charged accumulator to the ground on the vehicle to be started up (B).

4 - Start up the engine of the vehicle which is working and rev up the engine.

5 - Start the engine of the vehicle which had broken down.

REMOVING THE LEADS

With the engine running, remove the leads in the opposite order to which they were connected.

1 - Disconnect the negative cable (-) from the engine ground and then from the accumulator (B).

2 - Disconnect the positive cable (+) first from the accumulator used to start up and then from the accumulator of the vehicle with the flat battery (A).

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BATTERY

Battery maintenance

Consult the Summary Table at the start of the chapter to know how often this should be done (pag. D/5)

- ATTENTION:
the battery contains sulphuric acid electrolyte, a corrosive substance which must be handled with due caution.

- Irritant for skin and eyes.
- Keep it out of children's reach.
- Avoid any contact with skin or eyes.
- Wear appropriate protective clothing, gloves and goggles.
- If any fluid should get into your eyes, rinse them immediately with plenty of water and consult a doctor.
- If any fluid is swallowed, consult a doctor.

- ATTENTION:
Recharge the battery in a well ventilated place and ALWAYS switch off the electricity supply before disconnecting the clamps.

- ATTENTION:
Always use a voltmeter or a densimeter to check if the battery is sufficiently charged. If you need to check the level of the electrolyte, use a torch, never a naked flame.

- ATTENTION:

- Keep well away from sparks, flames and cigarettes. A naked flame near a battery could cause an explosion and personal injury.
- DO NOT make any sparks with the wire clamps while recharging the battery or while starting the vehicle engine with an auxiliary battery.
- Make sure the caps and vent have been correctly mounted and have been firmly tightened.
- Check the condition of the battery making sure the level of electrolyte is sufficient.
- Clean the upper part of the battery, make sure the clamps are firmly mounted and cover them with some vaseline.

Low maintenance battery

During normal use, low maintenance batteries do not need topping up. If there should be any trouble with the alternator, always check the level of the electrolyte. The level must be 15 mm above the plates. If it is too low, top it up by adding distilled water. If the battery should accidentally become flat, it is highly recommended that the battery is recharged in the workshop. It should be recharged using a maximum 7 A battery charger.

Removing the battery

(fig.44/D, 45/D, 46/D)

the battery is arranged in different points based on the model: see photos.

- Disconnect the NEGATIVE cable from the battery.
- Disconnect the POSITIVE cable from the battery.
- Remove the battery from the vehicle.



(fig.44/D position of battery for Agri FARMER)



(fig.45/D position of battery for Agri MAX - Agri POWER)

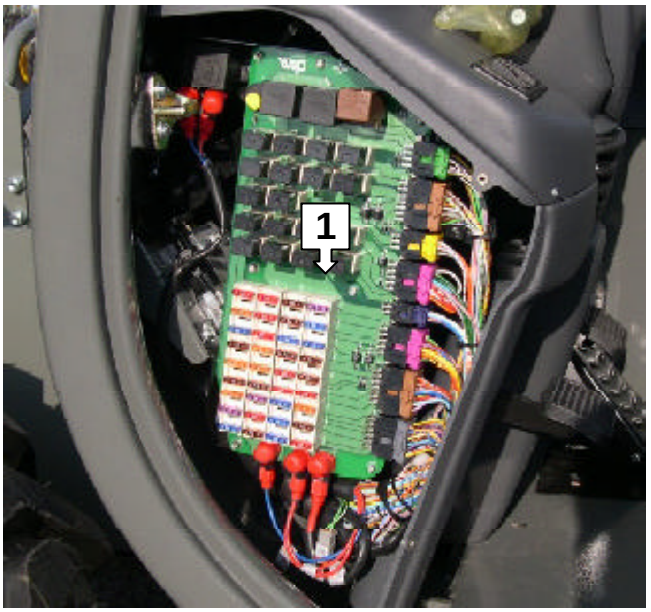


(fig.46/D position of battery for Agri STAR)

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DASH BOARD FUSE BOX
(fig.47/D)

The electric circuit is protected by fuses located in the fusebox placed under the dash board cover (fig.47/D Pos."1"). If a pilot light or electric control should fail to work, make sure there is no short circuit, check all the fuses. Changing a fuse: pull it out from the holder and replace it with a new fuse of the same quality and amps. **DO NOT TRY TO REPAIR A FUSE**.



(fig.47/D)

LIGHTS
(fig.48/D)

A burnt bulb should be replaced immediately.
Do not handle new bulbs with your bare hands or with dirty hands. Only open the light to replace the bulb.



(fig.48/D)

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SAFETY STICKERS

Consult the Summary Table at the start of the chapter to know how often this should be done (pag.D/5).

Replace any Danger, Attention, Caution and INSTRUCTIONS stickers which are illegible or missing. If any stickers are lost or damaged, spare stickers are available from your local DIECI dealer. The location and code numbers for the safety stickers are illustrated in this handbook in the chapter "Safety Regulations" (Cap.B).

CLEANING YOUR VEHICLE

Use water to soften up any dirt stuck to the surface. If you use a pressurised water jet, make sure you do not wet any electrical components such as the alternator and the starting motor.

To touch up any small marks on the body work, ask your DIECI dealer for tins of paint for this purpose. Make sure all safety stickers are present. Replace any stickers which have been lost or removed while cleaning.

Cleaning the windows

The windows should be washed frequently with soapy water.

Cleaning the cab

When the soft upholstery gets dirty, rub it clean. Dip a cloth into hot water and detergent and squeeze it as dry as possible.

- The driver's seat and the floor should be cleaned with a vacuum cleaner and stiff brush. If necessary, use a damp cloth to remove any stubborn stains.
- Do not use jets of water inside the cab.
- Clean the seat-belts with a sponge dipped in hot soapy water and simply leave them to dry.
- The fabric seats should be cleaned with a stiff brush or vacuum cleaner. Plastic seats should be cleaned with a damp cloth.

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STORING THE VEHICLE

If the vehicle has to be left in the garage for any length of time, the following precautions should be taken to safeguard your vehicle:

1 - Clean the vehicle.

2 - Lubricate all the oilers.

3 - Drain the oil from the engine and replace it with new oil.

4 - Clean the fuel system and change the filter cartridges.

5 - Completely lower the boom.

6 - Remove the battery and store it somewhere warm and dry. Recharge it periodically.

7 - Raise the vehicle onto tripods to take the weight off the tyres.

8 - Drain the coolant from the radiator and the cylinder block and refill them with a solution of antifreeze and water as instructed previously.

9 - Cover the exhaust opening.

10-Cover the exposed rods on the hydraulic cylinders with a fine layer of grease.

Preparing the vehicle after storage

1 - Inflate the tyres to the correct pressure.

2 - Remove the tripods from the axles.

3 - Fill the fuel tank.

4 - Check the level of the coolant in the radiator.

5 - Check the level of the various oils.

6 - Put in a fully charged battery.

7 - Remove the cover from the exhaust pipe.

8 - Switch on the engine and make sure all controls are working properly.

9 - Leave the engine to tick over for a few minutes.

10 - Make sure the brakes are working properly.

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USING AND STORING FUEL

Fuel tank opening
(fig.49/D e 50 /D Pos."1")

Turn the cap anticlockwise to remove it.

Diesel
Before handling fuel, filling the tank, etc., the following rules should be complied with:

- Never add different types of fuel, such as petrol, alcohol, to the diesel.
- It is forbidden to refuel with the engine switched on.
- Clean the area around the fuel cap. Refill the fuel tank at the end of every day to reduce condensation during the halt.
- Never leave the fuel cap off.
- Keep the fuel pump gun under control, while filling the tank.
- **DO NOT** smoke.
- Do not fill the tank right up. Leave room for the fuel to expand and immediately clean any spillage.
- If you should lose the original cap, replace it with an original spare. Not any cap will fit.

Specifications for recommended fuel

To ensure good performance, use a high quality fuel.
The specifications of the recommended fuel are given here below.

Cetane number	45 minimum.
Viscosity	2/4,5 centistokes at 40°C.
Density	0,8201860 kg/litre at 15°C
Sulphur	0,20% in weight, maximum.
Distillation	85% at 350°C.

Cetane number
The cetane number: measures the ignition properties. Fuel with a lower cetane number might make it difficult to start up the engine cold and could effect combustion.

Viscosity
Viscosity is the resistance to flow; if the degree of viscosity is beyond the limit, it might effect the engine performance.

Density
A lower density reduces the engine power, higher density increases the engine power and the smokiness of the exhaust fumes.

Sulphur
A high sulphur level wears out the engine and creates pollution.

Distillation
Distillation indicates the mixture of different hydrocarbons in the fuel. A high proportion of light hydrocarbons might effect the type of combustion.

Fuel for low temperatures

If the engine needs to be used at temperatures which fall below 0°C, special winter fuels can be used. These fuels have a lower degree of viscosity and restrict the formation of paraffin in the fuel. The formation of paraffin prevents the fuel from passing through the filter.



(fig. 49/D Fuel pipe union Agri MAX - Agri POWER, Agri STAR)



(fig. 50/D Fuel pipe union Agri FARMER)

- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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CLEANING AND STORING DIESEL FUEL

It is essential that the fuel is kept clean. The advice given here below will help to prevent alterations to the fuel specifications.

1. Never use zinc containers.

2. Never use cloths which might leave deposits, to clean the inside of the containers or components of the fuelling system.

3. The capacity of the cistern must ensure that the intervals between one refuelling and the next are not too long. A capacity of 3000 litres is sufficient for an average sized company.

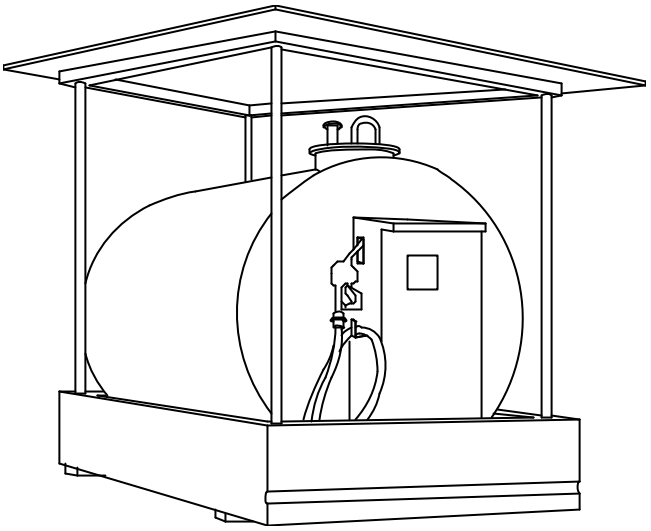
4. The storage cistern (fig.51/D) should be covered and placed on supports which are sufficiently high to exploit the force of gravity when refuelling the vehicle. A bathtub for the fuel collecting has to be positioned below the storage cistern. It should also be equipped with an opening big enough to allow someone to access the cistern for cleaning.

5. The delivery tap must be bigger at the bottom in order to hold back any deposits; it should also be equipped with a removable filter. The cistern should be tilted 40 mm per metre towards the plug to drain off the deposits.

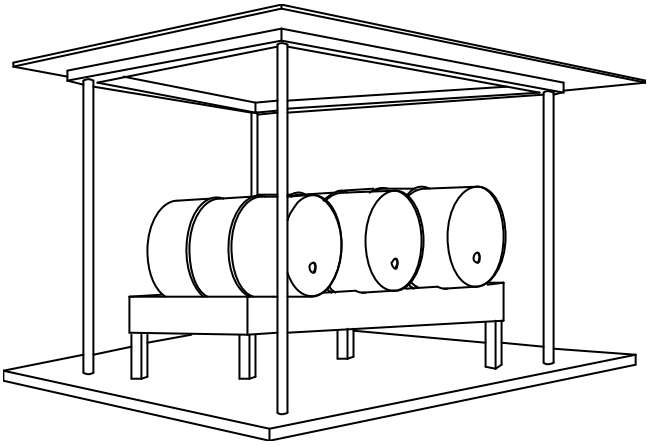
6. Fuel barrels (fig.52/D) must be stored under cover to prevent water from seeping in. The barrels should also be tilted slightly, so that any water will run to the upper rim. The fuel barrels should not be stored for too long before being used.

7. If the barrels are kept in the open, the cap must be tightly closed to prevent water from seeping in.

8. After refilling the cistern or the barrels, it is advisable to leave the fuel to stand for at least two hours so that any water or impurities can deposit before the fuel is used.



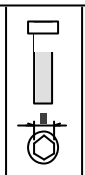
(fig.51/D)



(fig.52/D)

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PRELOAD AND TORQUE TABLE FOR CLASS 1 NUTS AND BOLTS

	 mm	 mm	fine pitch mm	resistant section mm²	friction coefficent	categories of fine pitch nuts and bolts											
						4.8		5.8		6.8		8.8		10.9		12.9	
						preload N	**torque Nm**	preload N	**torque Nm**	preload N	**torque Nm**	preload N	**torque Nm**	preload N	**torque Nm**	preload N	**torque Nm**
M8					**0.10**	9798.1	**10.87**	12247.6	**13.59**	14697.1	**16.31**	19596.1	**21.75**	27557.1	**30.58**	33068.5	**36.70**
					0.14	9079.5	**13.53**	11349.4	**16.91**	13619.3	**20.29**	18159.1	**27.05**	25536.2	**38.04**	30643.4	**45.65**
M10					**0.10**	15296.9	**21.13**	19121.1	**26.41**	22945.3	**31.69**	30593.8	**42.25**	43022.5	**59.42**	51627.0	**71.30**
					0.14	14175.0	**26.27**	17718.8	**32.84**	21262.6	**39.41**	28350.1	**52.55**	39867.3	**73.89**	47840.8	**88.67**
M10					**0.10**	16383.6	**22.12**	20479.5	**27.66**	24575.4	**33.19**	32767.2	**44.25**	46078.8	**62.23**	55294.6	**74.67**
					0.14	15221.6	**27.80**	19027.0	**34.75**	22832.5	**41.70**	30443.3	**55.61**	42810.8	**78.20**	51373.0	**93.84**
M12					**0.10**	22020.7	**35.83**	27525.9	**44.79**	33031.0	**53.75**	44041.4	**71.67**	61933.2	**100.78**	74319.8	**120.94**
					0.14	20405.8	**44.53**	25507.2	**55.66**	30608.7	**66.79**	40811.6	**89.06**	57391.3	**125.24**	68869.5	**150.29**
M12					**0.10**	23333.7	**37.26**	29167.1	**46.57**	35000.6	**55.88**	46667.4	**74.51**	65626.1	**104.78**	78751.3	**125.74**
					0.14	21669.2	**46.70**	27086.5	**58.38**	32503.8	**70.06**	43338.4	**93.41**	60944.6	**131.36**	73133.5	**157.63**
M14					**0.10**	31610.0	**59.04**	39512.5	**73.80**	47415.0	**88.57**	63220.0	**118.09**	88903.1	**166.06**	106683.7	**199.27**
					0.14	29345.9	**73.92**	36682.4	**92.40**	44018.9	**110.89**	58691.9	**147.85**	82535.4	**207.91**	99042.5	**249.49**
M16					**0.10**	42581.3	**89.78**	53226.6	**112.23**	63871.9	**134.67**	85162.5	**179.56**	119759.8	**252.51**	143711.8	**303.02**
					0.14	39587.8	**113.06**	49484.7	**141.32**	59381.6	**169.59**	79175.5	**226.12**	111340.6	**317.98**	133608.7	**381.57**
M18					**0.10**	51457.2	**124.03**	64321.5	**155.03**	77185.8	**186.04**	102914.4	**248.06**	144723.3	**348.83**	173668.0	**418.59**
					0.14	47751.7	**155.02**	59689.6	**193.78**	71627.5	**232.53**	95503.3	**310.05**	134301.6	**436.00**	161161.9	**523.20**
M18					**0.10**	55415.1	**130.17**	69268.9	**162.72**	83112.7	**195.26**	110830.3	**260.35**	155855.1	**366.12**	187026.1	**439.34**
					0.14	51577.6	**164.67**	64472.0	**205.84**	77366.4	**247.01**	103155.2	**329.35**	145062.1	**463.15**	174074.5	**555.77**
M20					**0.10**	65534.1	**173.72**	81917.7	**217.16**	98301.2	**260.59**	131068.3	**347.45**	184314.8	**488.60**	221177.8	**586.32**
					0.14	60886.2	**218.17**	76107.8	**272.71**	91329.3	**327.26**	121772.4	**436.34**	171242.5	**613.61**	205491.0	**736.33**
M20					**0.10**	70114.7	**181.58**	87643.3	**226.97**	105172.0	**272.36**	140229.3	**363.15**	197197.5	**510.68**	236637.0	**612.82**
					0.14	65319.1	**230.55**	81648.8	**288.19**	97978.6	**345.82**	130638.1	**461.10**	183709.9	**648.42**	220451.9	**778.10**
M22					**0.10**	81220.8	**236.88**	101526.0	**296.10**	121831.2	**355.32**	162441.5	**473.76**	228433.4	**666.23**	274120.1	**799.48**
					0.14	75533.9	**298.75**	94417.4	**373.43**	113300.9	**448.12**	151067.8	**597.49**	212439.1	**840.22**	254927.0	**1008.27**
M22					**0.10**	86164.2	**246.02**	107705.3	**307.53**	129246.4	**369.04**	172328.5	**492.05**	242337.0	**691.94**	290804.3	**830.33**
					0.14	80331.8	**313.41**	100414.7	**391.76**	120497.7	**470.11**	160663.6	**626.82**	225933.2	**881.46**	271119.8	**1057.75**
M24					**0.10**	98515.6	**308.56**	123144.5	**385.70**	147773.4	**462.84**	197031.1	**617.12**	277075.0	**867.83**	332490.0	**1041.40**
					0.14	91693.3	**390.33**	114616.6	**487.92**	137539.9	**585.50**	183386.5	**780.67**	257887.3	**1097.82**	309464.8	**1317.38**

- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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PRELOAD AND TORQUE TABLE
FOR CLASS 2 NUTS AND BOLTS

						categories of wide pitch nuts and bolts											
						4.8		5.8		6.8		8.8		10.9		12.9	
	mm	mm	wide pitch mm	resistant section mm²	friction coefficent	preload N	torque Nm	preload N	torque Nm	preload N	torque Nm	preload N	torque Nm	preload N	torque Nm	preload N	torque Nm
M6	5	10	1.00	20,10	0.10	4874.7	**4.24**	6093.4	**5.30**	7312.1	**6.35**	9749.4	**8.47**	13710.1	**11.92**	16452.2	**14.30**
					0.14	4499.1	**5.19**	5623.9	**6.48**	6748.6	**7.78**	8998.2	**10.37**	12653.7	**14.59**	15184.4	**17.51**
M7	-	11	1.00	28,90	0.10	7134.5	**6.97**	8918.2	**8.71**	10701.8	**10.45**	14269.1	**13.94**	20065.9	**19.60**	24079.1	**23.52**
					0.14	6599.6	**8.60**	8249.5	**10.76**	9899.4	**12.90**	13199.2	**17.21**	18561.4	**24.20**	22273.6	**29.04**
M8	6	13	1.25	36.60	0.10	8947.1	**10.20**	11183.9	**12.75**	13420.7	**15.30**	17894.2	**20.41**	25163.7	**28.70**	30196.5	**34.44**
					0.14	8265.6	**12.54**	10332.0	**15.67**	12398.4	**18.80**	16531.2	**25.07**	23247.0	**35.26**	27896.5	**42.31**
M10	8	16	1.50	58.00	0.10	14244.5	**20.11**	17805.6	**25.14**	21366.8	**30.16**	28489.0	**40.22**	40062.7	**56.56**	48075.3	**67.87**
					0.14	13167.4	**24.76**	16459.2	**30.95**	19751.1	**31.14**	26334.8	**49.52**	37033.3	**69.64**	44439.9	**83.56**
M12	10	18	1.75	84.30	0.10	20766.6	**34.43**	25958.3	**43.03**	31149.9	**51.64**	41533.2	**68.86**	58406.1	**96.83**	70087.3	**116.20**
					0.14	19204.0	**42.42**	24005.0	**53.03**	28806.0	**63.63**	38408.0	**84.84**	54011.2	**119.31**	64813.5	**143.17**
M14	12	21	2.00	115.00	0.10	28389.9	**54.77**	35487.4	**68.46**	42584.9	**82.15**	56779.8	**109.53**	79846.6	**154.03**	95816.0	**184.84**
					0.14	26261.2	**67.56**	32826.5	**84.45**	39391.8	**101.34**	52522.4	**135.13**	73859.6	**190.02**	88631.5	**228.03**
M16	14	24	2.00	157.00	0.10	39242.1	**85.14**	49052.7	**106.43**	58863.2	**127.72**	78484.3	**170.29**	110368.5	**239.47**	132442.2	**287.36**
					0.14	36364.2	**105.80**	45455.3	**132.26**	54546.3	**158.71**	72728.5	**211.61**	102274.4	**297.58**	122729.3	**357.09**
M18	14	27	2.50	192.00	0.10	47533.0	**117.48**	59416.3	**146.85**	71299.6	**176.22**	95066.1	**234.96**	133686.7	**330.41**	160424.1	**396.49**
					0.14	43986.1	**145.16**	54982.7	**181.45**	65979.2	**217.74**	87972.3	**290.32**	123711.0	**402.26**	148453.2	**489.92**
M20	17	30	2.50	245.00	0.10	61238.0	**166.08**	76547.5	**207.61**	91857.0	**249.13**	122476.0	**332.17**	172231.9	**467.11**	206678.2	**560.54**
					0.14	56747.1	**206.39**	70933.9	**257.98**	85120.6	**309.58**	113494.2	**412.78**	159601.2	**580.47**	191521.5	**696.56**
M22	17	34	2.50	303.00	0.10	76305.2	**227.22**	95381.5	**284.02**	114457.8	**340.82**	152610.4	**454.43**	214608.3	**639.05**	257530.0	**766.85**
					0.14	70791.9	**283.79**	88489.8	**352.74**	106187.8	**425.69**	141583.7	**567.58**	199102.1	**798.16**	238922.5	**957.80**
M24	19	36	3.00	353.00	0.10	88232.4	**287.16**	110290.5	**358.94**	132348.6	**430.73**	176464.9	**574.31**	248153.7	**807.63**	297784.4	**969.15**
					0.14	81761.8	**356.84**	102202.2	**446.05**	122642.7	**535.26**	163523.6	**713.68**	229955.1	**1003.61**	275946.1	**1204.33**

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TORQUE TABLE FOR HYDRAULIC FITTINGS

60° oval insert - BSP thread									
THREAD	1/18-28	1/4-19	3/8-19	1/2-14	5/8-14	3/4-14	1”-11	1”1/4-11	1”1/2-11
N.m	12-14	14-16	25-28	45-60	55-70	90-110	120-140	170-190	200-245

60° oval insert - METRICO thread									
THREAD	10x1	12x1,5	14x1,5	16x1,5	18x1,5	22x1,5	26x1,5	28x1,5	30x1,5
N.m	12-14	13-15	15-18	25-28	27-30	50-60	60-75	80-100	110-130

SERIES / RANGE “L”									
THREAD	12x1,5	14x1,5	16x1,5	18x1,5	22x1,5	26x1,5	30x2	36x1,5	45x1,5	52x1,5
N.m	13-15	15-18	25-28	27-30	50-60	30-75	85-105	120-140	170-190	190-230

SERIES / RANGE “S”									
THREAD	14x1,5	16x1,5	18x1,5	20x1,5	22x1,5	24x1,5	30x2	36x2	42x2	52x2
N.m	15-18	25-28	27-30	43-54	50-62	60-75	90-110	125-145	170-190	200-245

- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

TROUBLE SHOOTING

- **ATTENTION:** Only authorised staff should intervene on the vehicle to eliminate any trouble or breakdown.

Make sure "User Instructions" and "Safety Regulations" have been read and clearly understood before attempting any repair work on the vehicle.

This symbol: " " means that the trouble can NOT be remedied without the assistance of an authorised ***DIECI*** *Service* workshop.

GROUP	TROUBLE	PROBABLE CAUSE	REMEDY
ENGINE	Will not start	Direction lever is engaged	Position the lever to neutral
		No fuel	Fill up the tank
		Battery's flat	Recharge the battery or replace it
		Fuse has burnt out	Change the fuse
		Others	Consult the engine User Instructions and Maintenance manual

GROUP	TROUBLE	PROBABLE CAUSE	REMEDY
HYDRAULIC TRANSMISS. SYSTEM	The vehicle doesn't move in any direction	The sensor incorporated into the seat does not detect the driver's presence	Get properly seated
		The forward/reverse lever isn't on (light off)	Engage the lever in the required position
		Slow fast button not switched on (light off)	Switch on
		The stabilizing feet have been lowered	Completely raise all stabilizing feet
		Rear axle blocked (optional)	Free the axle
	The vehicle is losing speed	Hydraulic oil suction filter is clogged	Remove the oil filter and replace it
		Hydrostatic transmission damaged	Repair or replace the transmission
		Diesel engine malfunction	Check the return spring on the pedal. Check the distributor position

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TROUBLE SHOOTING

GROUP	TROUBLE	PROBABLE CAUSE	REMEDY
HYDROSTATIC TRANSMISSION	The vehicle doesn't move in any direction	Level of hydraulic oil insufficient	Check the level of hydraulic oil
		Parking brake on	Disengage the brake
		Hydrostatic transmission broken	Repair or replace the transmission
		Electric circuit broken	Repair the circuit
		The sluice under the vehicle is closed (towing the vehicle)	Open the sluice

GROUP	TROUBLE	PROBABLE CAUSE	REMEDY
BRAKES	The vehicle doesn't brake	No oil in the brake oil tank	Drain the circuit or top up the tank
		Fluid leaking from the circuit	Check for leaks
		Brake pads worn	Change the brake pads
		Brake pump damaged	Repair or replace
		Unsuitable brake fluid in differential sump circuit	Consult the oil comparison table

GROUP	TROUBLE	PROBABLE CAUSE	REMEDY
STEERING	The vehicle moves diagonally/ the wheels are not aligned	The wheels are not correctly aligned	Realign them
		Wrong steering mode selected	Reposition the lever for different steering mode
		Control distributor damaged	Repair or replace the distributor
		Oil leaking from hydraulic steering cylinders	Replace the gaskets

- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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GROUP	TROUBLE	PROBABLE CAUSE	REMEDY
TELESCOPIC ARM (BOOM)	The vehicle will not lift the load	Safety devices have been activated	See the chapter “Getting to know your vehicle”
		Electric circuit is broken	Check fuses and electric circuit
		Level of hydraulic oil in the tank is insufficient	Top up
		Relevant hydraulic pump is broken	Repair or replace pump
		Distributor regulated too low	Check and adjust the distributor
		Inside of lifting cylinders have been unthreaded	Replace the gaskets
	The boom does not extend	Safety devices have been activated (the light and acoustic alarm are on)	See the chapter “Getting to know your vehicle”
	The boom cannot be lowered	Safety devices have been activated (the light and acoustic alarm are on)	See the chapter “Getting to know your vehicle”

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HOW TO WRITE OUT THE SERVICE REGISTER

- The **"SERVICE REGISTER"** must be written in compliance with the requirements imposed by the Essential Safety Requirement 4.4.2.b of Enclosure I of Machine Directive **EC/98/37**, in order to prove that all the inspection and service acitivites of the machine concerning safety of the same are carried out correctly.
- Together with all the activities concerning the life and use of the machine (replacement of parts, mot's, anomalies etc.) the Service Register must also include notes on all the quarterly and yearly inspections legally envisaged, amongst which are those indicated in the "Maintenance" section and "Equipment" chapter of this manual.
- The name of the service engineer and the date the job was carried must also be clearly written.
- **You are recommended to write out, up-date and keep this Service Register with care throughout the whole life of the machine**.
- We are providing some empty pages to help create your own Service Register.

COMMITMENTS AND HOW TO FORWARD DECLARATIONS TO I.S.P.E.S.L.

- The M.D.dated 12/09/1959, under Title II – Article 7, states that the employer and users of **engine-driven lifting equipment having capacities greater than 200 kg** and **people carrying platforms**, are obliged to inform the competent authority of the territory (currently I.S.P.E.S.L. in Italy) when the machine is put to work, specifying the place of installation of the machine so that this authority may make an **initial inspection**.
- This fulfilment is confirmed by Article 11 – section 3 of **DPR 459** dated 24/07/1996, national law that transposes **Machine Directive EC/98/37**.
- The declaration to I.S.P.E.S.L. must be made by enclosing a copy of the **EC Declaration of conformtiy** of the machine, with reference to **Enclosure IIA** of DPR 459/96 – Machine Directive EC/98/37.
- The original declarations (EC Declaration of conformity – Enclosure IIA or rather the Declaration of the Manufacturer – Enclosure IIB) must be kept by the client.
- The declaration shall be forwarded to I.S.P.E.S.L.by Registered mail with receipt of reception.
- I.S.P.E.S.L. will then inform the local supervision authority (ASL in Italy) that the machine is in use; this authority is then in charge of **following yearly inspections**.

PERIODIC INSPECTIONS AND METHOD OF REGISTRATION

- The employer or the user of the machine is obliged to have the machine inspected pedriodically according to law (DPR 547 dated 27/4/55; MD 12/9/59 and LD 626 dated 19/9/94).
- He is also obliged to respect the maintenance and inspection schedule described in this Use and Maintenance manual.
- Inspections and periodic tests, together with maintenance jobs must be carried out by especially employed experts, or by a workshop authorised by the manufacturer DIECI S.r.l.
- The employer/user of the machine must register the results of the inspections in the Service Register, or have personnel trained for such purpose to register them:
  a) Quarterly inspections that involve the operation and/or efficiency of ropes/chains according to **Article 179** of **DPR 547** dated **27/4/55;**
  b) Yearly inspections that involve the operation and the preservation of the machine in terms of safety (yearly tests, corrosion inspections, calibration tests etc.) according to **Article 194** of **DPR 547** dated **27/4/55.**
- Law foresees administrative fines to the charge of those who fail to carry out these quarterly and yearly inspections.
- The Service Register, in which the inspections are to be written, must be shown on request to the inspectors in charge of ensuring that the current laws are observed.
- After the yearly inspection has been carried out, the inspector of ASL will issue an acceptance report or will prescribe the fulfilments to be integrated.
- The user is obliged to keep the inspection report in the Service Register.
- If the local supervising authority (ASL in Italy) should fail to make the yearly inspection, you are in any event recommended to have the yearly inspection carried out by a qualified engineer and write the results down in the Service Register.
- The evaluations of the inspections must be registered in the reserved pages that follow, indicating the outcome of the inspection, the date, the signature and any comments of the inspector.
- If the pages reserved within this manual are not enough to hold all the notes concerning the life of the machine, use additional sheets of paper, remembering to write them out in the same manner.

- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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MACHINE DETAILS

Manufacturer: ***Dieci S.r.l.***

Model: ..... serial number ..... Year .....

Equipment code ..... serial number ..... Year .....

Max. capacity [Kg]: .....

Equipment code ..... serial number ..... Year .....

Max. capacity [Kg]: .....

Equipment code ..... serial number ..... Year .....

Max. capacity [Kg]: .....

Equipment code ..... serial number ..... Year .....

Max. capacity [Kg]: .....

Owner: .....

Work commencement date of machine: .....

FOR FURTHER CONTROLS OR REPORTS TO THE COMPETENT AUTHORITIES, PLEASE REFER TO THE LOCAL LEGISLATION IN FORCE IN THE COUNTRY WHERE THE VEHICLE IS BEING USED

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DECLARATION OF VIBRATORY EMISSIONS

- The declared vibration emission value complies with standard EN 12096

Agri FARMER 26.6

1) Vibration values on the seat

Vibration emission value measured at = 1,6 m/s2
Uncertainty factor K = 0,5 m/s2

Values determined subject to standard EN 13059

2) Vibration values on the steering wheel

Vibration emission value measured at = 4,5 m/s2
Uncertainty factor K = 2,2 m/s2

Values determined subject to standard EN 13059

Agri FARMER 28.7 - 30.7

1) Vibration values on the seat

Vibration emission value measured at = 1,6 m/s2
Uncertainty factor K = 0,5 m/s2

Values determined subject to standard EN 13059

2) Vibration values on the steering wheel

Vibration emission value measured at = 4,5 m/s2
Uncertainty factor K = 2,2 m/s2

Values determined subject to standard EN 13059

Agri MAX 28.7 - 30.7

1) Vibration values on the seat

Vibration emission value measured at = 1,8 m/s2
Uncertainty factor K = 0,5 m/s2

Values determined subject to standard EN 13059

2) Vibration values on the steering wheel

Vibration emission value measured at = 4,5 m/s2
Uncertainty factor K = 2,2 m/s2

Values determined subject to standard EN 13059

Agri STAR

1) Vibration values on the seat

Vibration emission value measured at = 2,1 m/s2
Uncertainty factor K = 0,6 m/s2

Values determined subject to standard EN 13059

2) Vibration values on the steering wheel

Vibration emission value measured at = 4,5 m/s2
Uncertainty factor K = 2,2 m/s2

Values determined subject to standard EN 13059

- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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SPACE FOR REGISTERING PERIODIC INSPECTIONS AND SERVICE JOBS

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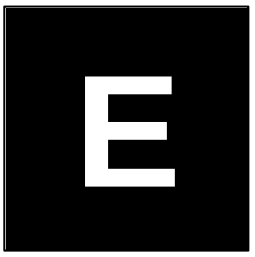
- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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NOTES

ELECTRIC CIRCUIT DIAGRAMS

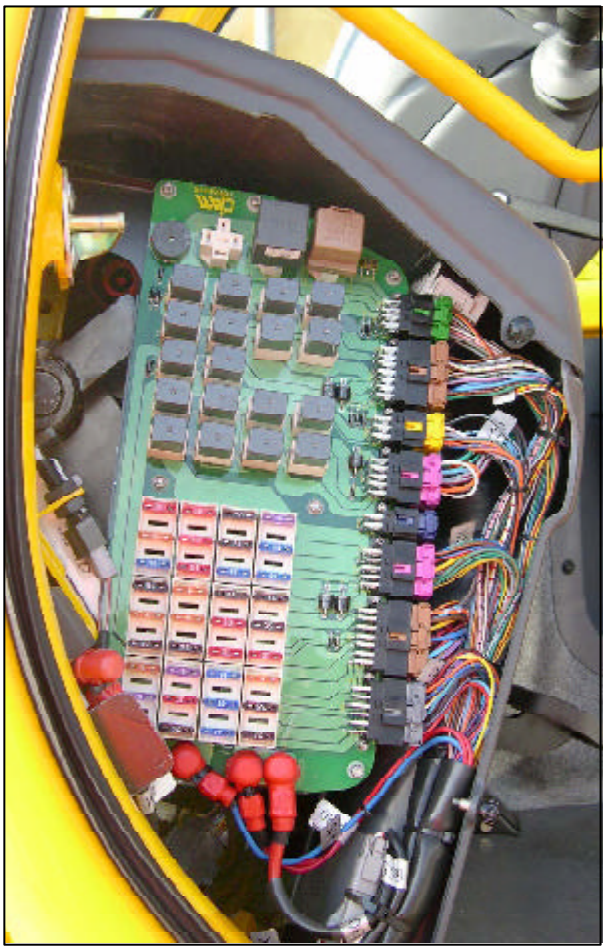


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FUSE BOX - IDENTIFICATION AND FUNCTIONS OF PARTS

(fig.1/E - fig.2/E)

/*	°*	^*
1 - DELAYED TIMER 3" 12V	1	
2 - BASKET START.ANTI-TIP.CTRL UNIT	1	
3 - PCB	1	
4 - DIODES 1N 4007 BLACK	15	
5 - DIODE P 600 M	5	
6 - 12V INTERMITTENCE	1	
7 - BUZZER	1	
8 - POWER TERMINAL M6	2	
9 - POWER TERMINAL M5	1	
10 -BOARD RELAY MICRO CONNECTOR	18	
11-BOARD FUSE BOX CONNECTOR	12	
12-BOARD RELAY BOX CONNECTOR	3	
13-PCB CONNECTOR 18 WAY F 90°	1	
14-PCB CONNECTOR 15 WAY F 90°	2	
15-PCB CONNECTOR 12 WAY F 90°	1	
16-PCB CONNECTOR 9 WAY F 90°	1	
17-PCB CONNECTOR 6 WAY F 90°	1	
18-PCB CONNECTOR 21 WAY F 90°	2	
19-MICRO RELAY WITH DIODE 12V	18	
F1 - OUTRIGGERS FUSE 15A	3	
F10 - SWITCH LIGHTING FUSE 7.5A	2	
F11 - LIGHTS AND STOP DEV.SUPPLY FUSE 10A	4	
F12 - SENSORS FUSE 3A	3	
F13 - BOOM HEAD FUSE 7.5	8	
F14 - SIDE LIGHTS FUSE 5A	4	
F15 - SIDE LIGHTS FUSE 5A	4	
F16 - FULL BEAM FUSE 10A	4	
F17 - HORN FUSE 10A	4	
F18 - HEAD LIGHTS FUSE 10A	4	
F19 - FRONT WIPER FUSE 15A	6	
F2 - RADIO FUSE 3A	9	
F20 - REAR WIPER FUSE 15A	6	
F21 - OPTIONAL FUSE 15A	9	
F22 - FRONT WORK LIGHT FUSE 10A	7	
F23 - REAR WORK LIGHT FUSE 10A	7	
F24 - PRE-HEAT.FILTER FUSE F7.5A	8	
F25 - HEATING FAN FUSE 15A	8	
F26 - PARKING BRAKE AND GEAR DEV.FUSE	2	
F27 - ENGINE STOP + SEAT MICRO FUSE	1	
F28 - WARNING FUSE 10A	4	
F29 - BEACON FUSE 7.5A	6	
F3 - BUZZER AND REVERSING LIGHT FUSE 5A	2	
F30 - RADIO FUSE 5A	9	
F31 - OPTIONAL FUSE 10A	9	
F32 - POWER SOCKET FUSE 7.5A	6	
F33 - BASKET SELECTOR FUSE 7.5a	8	
F34 - CONDITIONER FUSE 15A	7	
F35 - BASKET FUSE 15A	1	
F36 - INSTRUMENT SUPPLY FUSE 3A	1	
F4 - SLOW/FAST GEAR SELECTOR FUSE 7.5A	2	
F5 - REAR HYDRAULIC CONNECTOR FUSE 7.5A	9	
F6 - ANTI-TIPPING DEV. FUSE 7.5A	2	
F7 - PNEUMATIC SEAT FUSE 15A	8	
F8 - MECHANICAL GEAR FUSE 5A	4	
F9 - AXLE BLOCK FUSE 10A	2	
FA1 - GENERAL FUSE 80A	1	(IN ENGINE BAY)
FA2 - STARTER FUSE 40A	1	(IN ENGINE BAY)
FA3 - THERMAL-STARTER FUSE 30A	1	(IN ENGINE BAY)
FA4 - ALTERNATOR FUSE 80A	1	(IN ENGINE BAY)

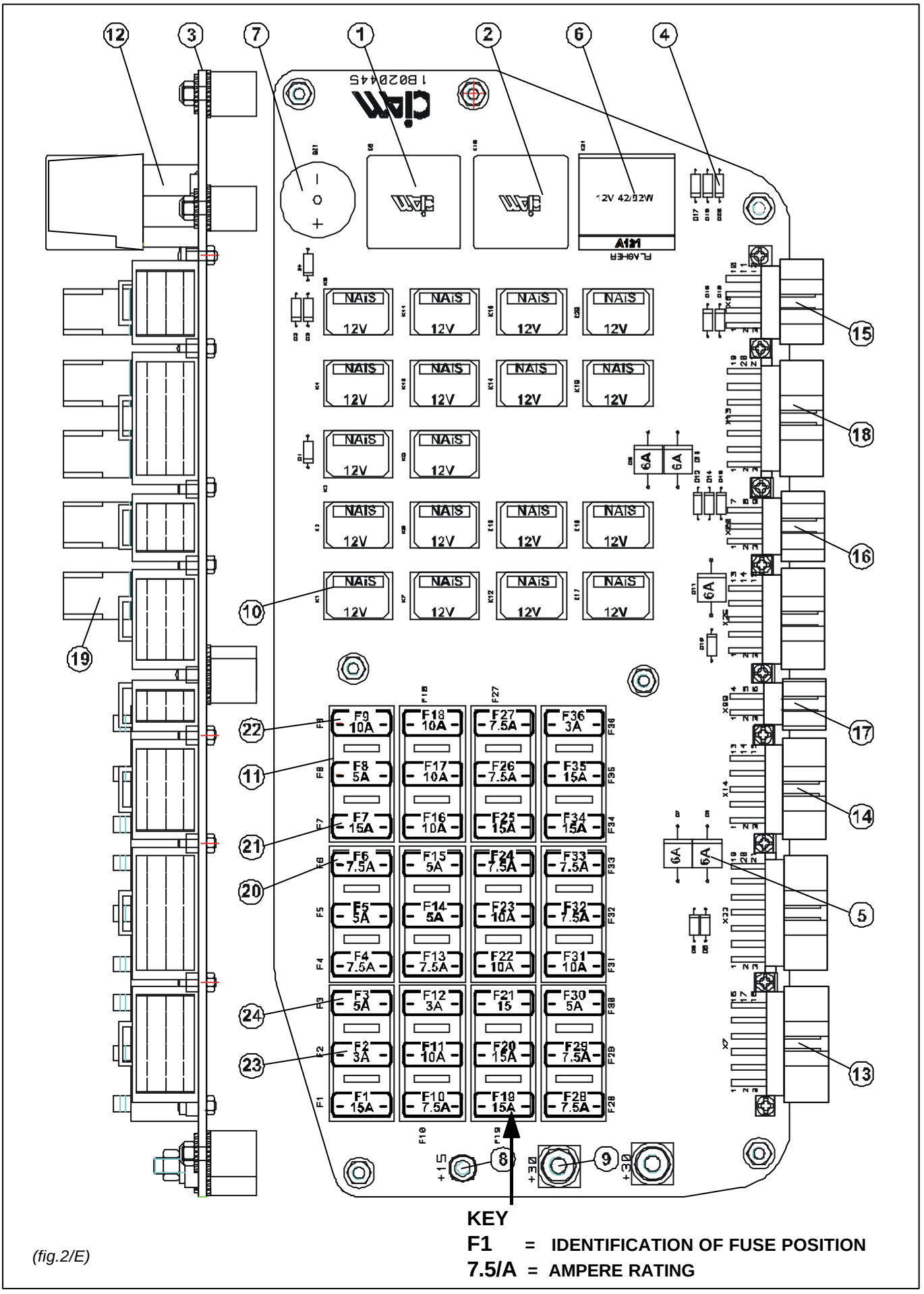


(fig.1/E)

(/*)
POSITOIN REFERENCE

(°*)
DESCRIPTION

(^*)
WIRING DIAGRAM
REFERENCE SHEET



KEY

F1 = **IDENTIFICATION OF FUSE POSITION**

7.5/A = **AMPERE RATING**

(fig.2/E)

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KEY OF STANDARD SYSTEM DWG. NO. E25800-023

NAME	DESCRIPTION	SHEET
EV0	ENGINE STOP SOLENOID VALVE	1
EV1	FORWARD GEAR SOLENOID VALVE	2
EV2	REVERSE GEAR SOLENOID VALVE	2
EV4	LH LEVELLING SOLENOID VALVE	3
EV5	RH LEVELLING SOLENOID VALVE	3
EV6	FRONT RH OUTRIGGER/FRONT RH OUTRIGGER BEAM UPSOLENOID VALVE	5
EV7	FRONT RH OUTRIGGER/FRONT RH OUTRIGGER FOOT DOWN SOLENOID VALVE	5
EV8	FRONT LH OUTRIGGER/FRONT LH OUTRIGGER BEAM UP SOLENOID VALVE	5
EV9	FRONT LH OUTRIGGER/FRONT LH OUTRIGGER FOOT DOWN SOLENOID VALVE	5
EV14	GEN.OUTRIGGER/OUTRIGGER LOWERING SEL. SOLENOID VALVE PEGASUS 18/21	5
EV15	REAR RH AXLE BLOCK SOLENOID VALVE	2
EV16	REAR LH AXLE BLOCK SOLENOID VALVE	2
EV21	2°MECHANICAL GEAR SOLENOID VALVE-HURT	4
EV22	1° MECHANICAL GEAR SOLENOID VALVE-HURT	4
EV23	PARKING BRAKE SOLENOID VALVE	2
EV25	FAST GEAR SOLENOID VALVE	2
EV37	EXTENSION. SOLENOID VALVE	3
EV38	RETRACT. SOLENOID VALVE	3
EV39	GENERAL SOLENOID VALVE	3
F1	OUTRIGGER FUSE 15A	3
F2	RADIO FUSE 3A	9
F3	BUZZER AND REVERSING LIGHT FUSE 5A	2
F4	SLOW/FAST GEAR SELECT. FUSE 7.5A	2
F5	REAR HYDRAULIC CONNECTOR FUSE 7.5A	9
F6	ANTI-TIPPING DEV. FUSE 7.5A	2
F7	PNEUMATIC SEAT FUSE 15A	8
F8	MECHANICAL GEAR FUSE 5A	4
F9	AXLE BLOCK FUSE 10A	2
F10	SWITCH LIGHTING FUSE 7.5A	2
F11	LIGHT DEV.AND STOP LIGHTS PWR SUPPLY FUSE 10A	4
F12	SENSORS FUSE 3A	3
F13	BOOM HEAD FUSE 7.5A	8
F14	SIDE LIGHTS FUSE 5A	4
F15	SIDE LIGHTS FUSE 5A	4
F16	FULL BEAM FUSE 10A	4
F17	HORN FUSE 10A	4
F18	HEAD LIGHTS FUSE 10A	4
F19	FRONT WIPER FUSE 15A	6
F20	REAR WIPER FUSE 15A	6
F21	OPTIONAL FUSE 15A	9
F22	FRONT WORK LIGHT FUSE 10A	7
F23	REAR WORK LIGHT FUSE 10A	7
F24	PRE-HEAT.FILTER FUSE F7.5A	8
F25	HEATING FAN FUSE 15A	8
F26	PARKING BRAKE+GEAR DEV. FUSE 7.5A	2
F27	ENGINE STOP+SEAT MICRO FUSE 7.5A	1
F28	WARNING FUSE 10A	4
F29	BEACON FUSE 7.5A	6
F30	RADIO FUSE 5A	9
F31	OPTIONAL FUSE 10A	9
F32	POWER SOCKET FUSE 7.5A	6
F33	BASKET SELECTOR FUSE 7.5A	8
F34	CONDITIONER FUSE 15A	7
F35	BASKET FUSE 15A	1
F36	INSTRUMENT PWR SUPPLY FUSE 3A	1
FA1	GENERAL FUSE 80A	1
FA2	STARTER FUSE 40A	1
FA3	THERMAL-STARTER FUSE 30A	1
FA4	ALTERNATOR FUSE 80A	1
G1	BATTERY	1
G2	ALTERNATOR	1
H1	REAR RH WORK LIGHT	7
H10	ANTI-TIPPING ALARM LED	5

NAME	DESCRIPTION	SHEET
H12	FAST HYDRAULIC GEAR LED	2
H14	ANTI-TIPPING PRE-ALARM LED	5
H15	FRONT AXLE ALIGNED LED	5
H16	REAR AXLE ALIGNED LED	5
H18	REAR LH WORK LIGHT	7
H2	FRONT RH WORK LIGHT	7
H21	2° MECH.GEAR ENGAGED LED	4
H22	REAR RH LIGHT	4
H23	REAR LH LIGHT	4
H24	REG.PLATE LIGHT	4
H25	FRONT RH LIGHT	4
H26	FRONT LH LIGHT	4
H27	ROTATING BEACON	6
H28	RED NEUTRAL LED	9
H29	ORANGE NEUTRAL LED	5
H3	1° MECH.GEAR ENGAGED LED	4
H30	SLOW HYDRAULIC GEAR LED	6
H31	RADIO	9
H32	PNEUMATIC SEAT	8
H33	CONDITIONER	7
H4	FRONT LH WORK LIGHT	7
H5	OUTRIGGERS LOWERED LED	2
H6	GREEN NEUTRAL LED	5
H7	LAMP	9
HA1	INSTRUMENT ALARM BUZZER	1
HA2	REVERSING BUZZER	2
HA3	HORN	4
HA4	LH SPEAKER	9
HA5	RH SPEAKER	9
K01	ENGINE STARTING RELAY	1
K02	OTHER PRE-HEATING RELAY	1
K03	THERMAL-STARTER RELAY	1
K04	POWER SUPPLY RELAY +15	1
K1	FULL BEAM RELAY	4
K2	HORN RELAY	4
K3	TRANSMISSION RELEASE RELAY	2
K4	BUZZER AND REVERSING LIGHT RELAY	2
K5	STARTING ENABLING WITH NEUTRAL GEAR RELAY	1
K6	SEAT MICRO TIMER	1
K7	HEAD LIGHTS RELAY	4
K8	DEDALUS ANTI-TIPPING RELAY	3
K9	FAST HYDRAULIC GEAR RELAY	2
K10	REVERSE RELAY	2
K11	STARTING ENABLING FROM CAB WITH OPERATOR SAT DOWN RELAY	1
K12	DISABLE OUTRIGGERS WITH BASKET INSERTED RELAY	3
K13	DISABLE OUTRIGGERS FROM OPTIONAL SENSRO RELAY	3
K14	AUTOAMTIC AXLE BLOCK RELAY	2
K15	FORWARD GEAR RELAY	2
K16	ENGINE RUNNING FREQUENCY RELAY	1
K17	OPTIONAL RELAY	9
K18	DISABLE OUTRIGGERS FROM EXT./LIFTING SENSOR RELAY	3
K19	LEVELLING LIMITATION RELAY	3
K20	MECHANICAL GEARS LED RELAY	4
K21	INTERMITTENCE	4
KP1	RETRACT ON KNOB RELAY	3
KP2	EXTEND ON KNOB RELAY	3
M1	STARTER MOTOR	1
M2	REAR WIPER MOTOR	6
M7	FRONT WIPER	6
M8	REAR SCREEN WASHER	6
M9	FRONT SCREEN WASHER	4
M10	HEATING FAN	8
P1	MULTI-PURPOSE INSTRUMENT	1
P2	OPTIONAL TACHYMETER	8

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NAME	DESCRIPTION	SHEET
P95	SAR	9
R	ENGINE PRE-HEATING	1
R5	FILTER PRE-HEATING	1
S1	WARNING SWITCH	4
S2	HEATING SWITCH	8
S4	OUTRIGGER MANOEUVRE ENABLING BUTTON	5
S5	REAR SCREEN WASHER SWITCH	6
S6	REAR WORK LIGHT SWITCH	7
S7	REAR HYDRAULIC CONNECTOR	8
S8	MECHANICAL GEAR SWITCH-HURT	4
S9	MANUAL LEVELLING SWITCH	3
S11	BOOM HEAD SOLENOID VALVE SWITCH	8
S12	REAR AXLE BLOCK SWITCH	2
S13	FRONT LH OUTRIGGER BUTTON	5
S14	FRONT RH OUTRIGGER BUTTON	5
S15	ROTATING BEACON SWITCH	6
S16	ANTI-TIPPING DISABLING SWITCH	3
S19	FILTER PRE-HEATING SWITCH	8
S20	CONDITIONER SWITCH	7
S21	PARKING BRAKE SWITCH	2
S23A	ENGINE WATER HIGH TEMPERATURE THERMOMETER	1
S23B	ENGINE WATER HIGH TEMPERATURE THERMOSTAT	1
S24	FUEL RESERVE LEVEL	1
S24A	FUEL LEVEL INDICATOR	1
S25	HYDRAULIC OIL FILTER CLOGGED PRESSURE SWITCH	1
S26	LOW ENGINE OIL PRESSURE SWITCH	1
S27	SEAT MICRO SWITCH	1
S28	FRONT SCREEN WIPER-WASHER SWITCH	6
S29	JUMP ON KNOB BUTTON	3
S30	MAN PRESENT ON KNOB BUTTON	3
S31	RETRACT ON KNOB BUTTON	3
S34	MECHANICAL GEAR ENGAGE MICRO SWITCH	2
S35	2° MECHANICAL GEAR ENGAGE PRESSURE SWITCH	4
S36	WHEEL ALIGNMENT SWITCH	5
S37	INVERTER STEERING COL.SWITCH	2
S38	CLUTCH MICRO SWITCH	4
S39	STOP LIGHT MICRO SWITCH	4
S40	LIGHTS STEERING COL.SWITCH	4
S41	STARTER PANEL WITH PRE-HEATING	1
S42	BATTERY DISCONNECTOR	1
S44	EXTENSION+LIFTING SENSOR	4
S45	OPTIONAL SENSOR	3
S46	FRONT LH OUTRIGGER MICRO SWITCH	2
S47	FRONT RH OUTRIGGER MICRO SWITCH	2
S48	FRONT WORK LIGHTS SWITCH	7
S54	POWER SOCKET	6
S55	HANDBRAKE MICRO SWITCH	2
S56	POWER TAKE-OFF SWITCH	3
S57	LOADING CELL	2
S58	FRONT AXLE ALIGNED	9
S59	LOADING CELL 1	9
S60	REAR AXLE ALIGNED	9
S61	FILTER TERMISTOR	1
S62	JOYSTICK BUTTON	3
S65	PRE-HEATING CTRL UNIT	1
S70	ANTI-TIPPING DISABLING SELECTOR	9
S71	ENABLE MANOEUVRES BUTTON	9

NAME	DESCRIPTION	SHEET
X10	15-WAY CONNECTOR	
X11	21-WAY CONNECTOR MARK	
X110	2-WAY CONNECTOR	
X111	5-WAY CONNECTOR MARK	
X112	7-WAY CONNECTOR MARK	
X12	21-WAY CONNECTOR MARK	
X13	21-WAY CONNECTOR MARK	
X14	15-WAY CONNECTOR	
X15	7-WAY CONNECTOR MARK	
X16	C21-WAY CONNECTOR MARK	
X17	12-WAY CONNECTOR	
X18	6-WAY CONNECTOR	
X19	21-WAY CONNECTOR MARK	
X20	9-WAY CONNECTOR	
X200	1-WAY CONNECTOR	
X22	21-WAY CONNECTOR MARK	
X23	2-WAY CONNECTOR	
X24	9-WAY CONNECTOR MARK	
X25	9-WAY CONNECTOR MARK	
X26	15-WAY MATE'N'LOCK	
X3	2-WAY CONNECTOR	
X4	2-WAY CONNECTOR	
X5	18-WAY CONNECTOR	
X6	9-WAY CONNECTOR	
X65	10-WAY CONNECTOR-PRE-HEATING CTRL UNIT	
X7	18-WAY CONNECTOR	
X8	12-WAY CONNECTOR	
X87	9-WAY CONNECTOR	
X88	5-WAY CONNECTOR MARK	
X9	18-WAY CONNECTOR	
X95	23-WAY CONNECTOR	
X99	6-WAY CONNECTOR	
XD	3-WAY CONNECTOR	
XE0	1-WAY CONNECTOR	
XE1	2-WAY CONNECTOR	
XE14	2-WAY CONNECTOR	
XE2	2-WAY CONNECTOR	
XE23	2-WAY CONNECTOR	
XE25	2-WAY CONNECTOR	
XE4	2-WAY CONNECTOR	
XE5	2-WAY CONNECTOR	
XE6	2-WAY CONNECTOR	
XE7	2-WAY CONNECTOR	
XE8	2-WAY CONNECTOR	
XE9	2-WAY CONNECTOR	
XEV	4-WAY CONNECTOR	
XGA	1-WAY CONNECTOR	
XGB	2-WAY CONNECTOR	
XH2	2-WAY CONNECTOR DEUTSCH	
XH22	6-WAY CONNECTOR DEUTSCH	
XH23	6-WAY CONNECTOR DEUTSCH	
XH24	2-WAY CONNECTOR	
XH25	6-WAY CONNECTOR DEUTSCH	
XH26	6-WAY CONNECTOR DEUTSCH	
XH31A	8-WAY CONNECTOR	
XH31B	8-WAY CONNECTOR	
XH32	2-WAY CONNECTOR 90°	

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NAME	DESCRIPTION	SHEET
XH33	7-WAY CONNECTOR MARK	
XK3	2-WAY CONNECTOR 90°	
XK4	2-WAY CONNECTOR 90°	
XM10	4-WAY CONNECTOR	
XM10.	4-WAY CONNECTOR	
XM2	2-WAY CONNECTOR 90°	
XM7	4-WAY CONNECTOR	
XM8	2-WAY CONNECTOR 90°	
XM9	2-WAY CONNECTOR 90°	
XP1	20-WAY CONNECTOR	
XR3	3-WAY CONNECTOR	
XR5	2-WAY CONNECTOR	
XS23	3-WAY CONNECTOR	
XS24	3-WAY CONNECTOR	
XS27	2-WAY CONNECTOR	
XS37	12-WAY CONNECTOR DEUTSCH	
XS40	12-WAY CONNECTOR DEUTSCH	
XS45	3-WAY CONNECTOR DEUTSH	
XS55	4-WAY CONNECTOR	
XS54	3-WAY CONNECTOR	
XS57	2-WAY CONNECTOR	
XS58	3-WAY CONNECTOR DEUTSH	
XS59	2-WAY CONNECTOR	
XS60	3-WAY CONNECTOR DEUTSH	
XS61	2-WAY CONNECTOR	
XX	1-WAY CONNECTOR	

WIRE COLOURS

A	SKY BLUE
B	WHITE
C	ORANGE
G	YELLOW
H	GREY
L	BLUE
M	BROWN
N	BLACK
R	RED
S	PINK
V	GREEN
Z	VIOLET

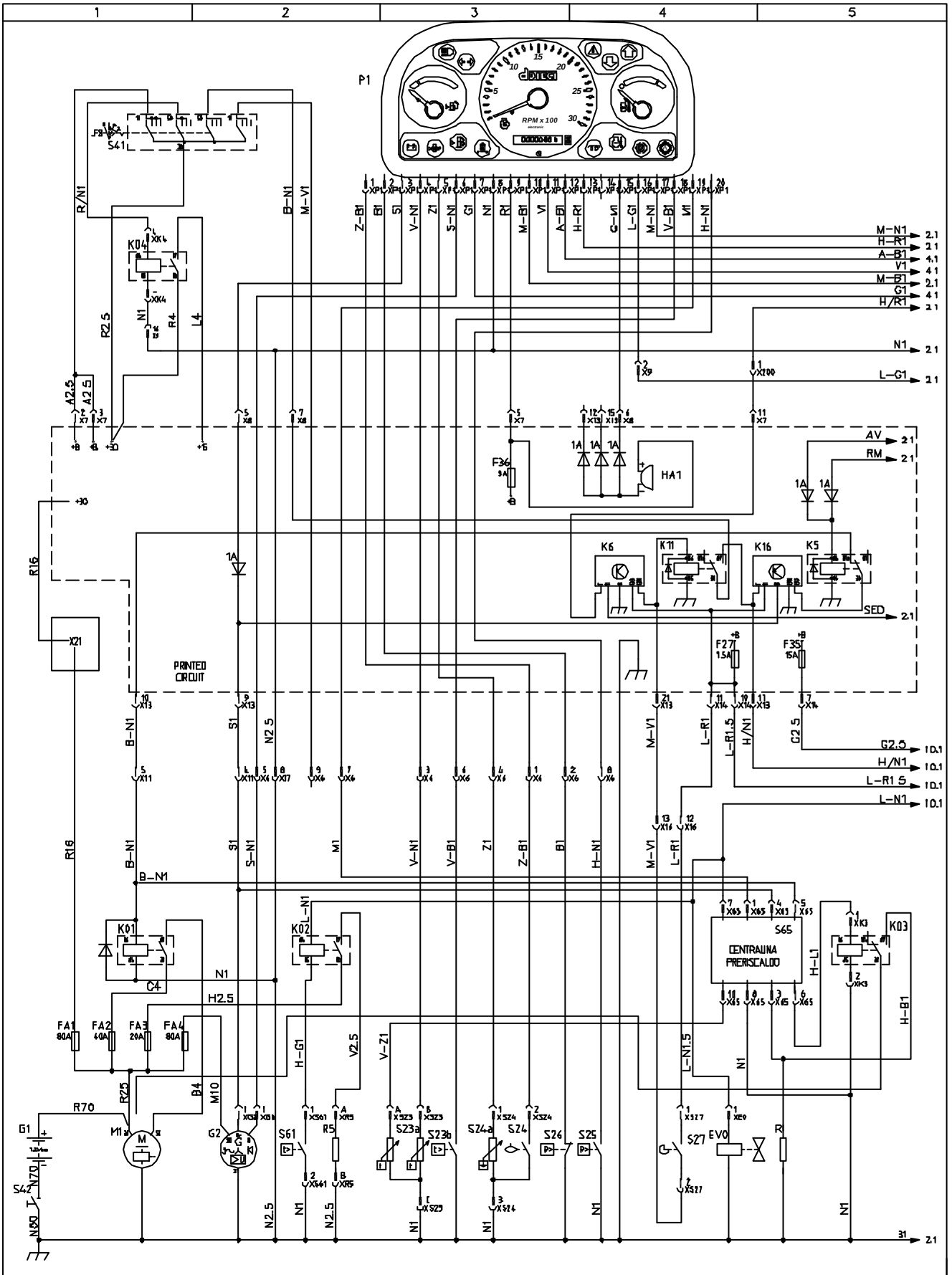
NOTE:
WIRES WITH A COMBINATION OF TWO COLOURS ARE MARKED WITH THE FOLLOWING SYMBOLS INDICATING HOW THE ABOVE COLOURS HAVE BEEN COMBINED

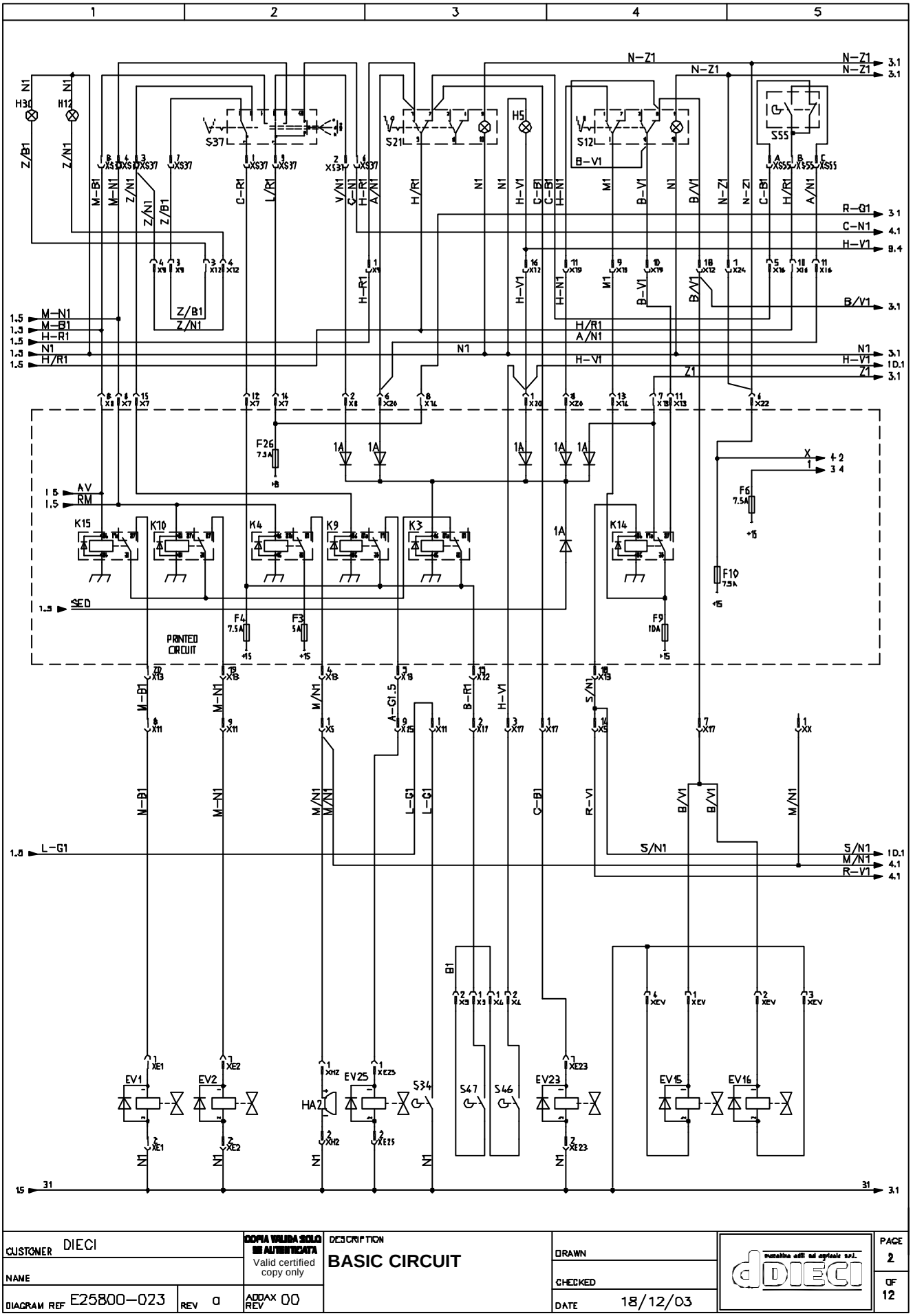
EXAMPLE:

Y/G -> YELLOW/GREEN (HORIZONTAL STRIPES)

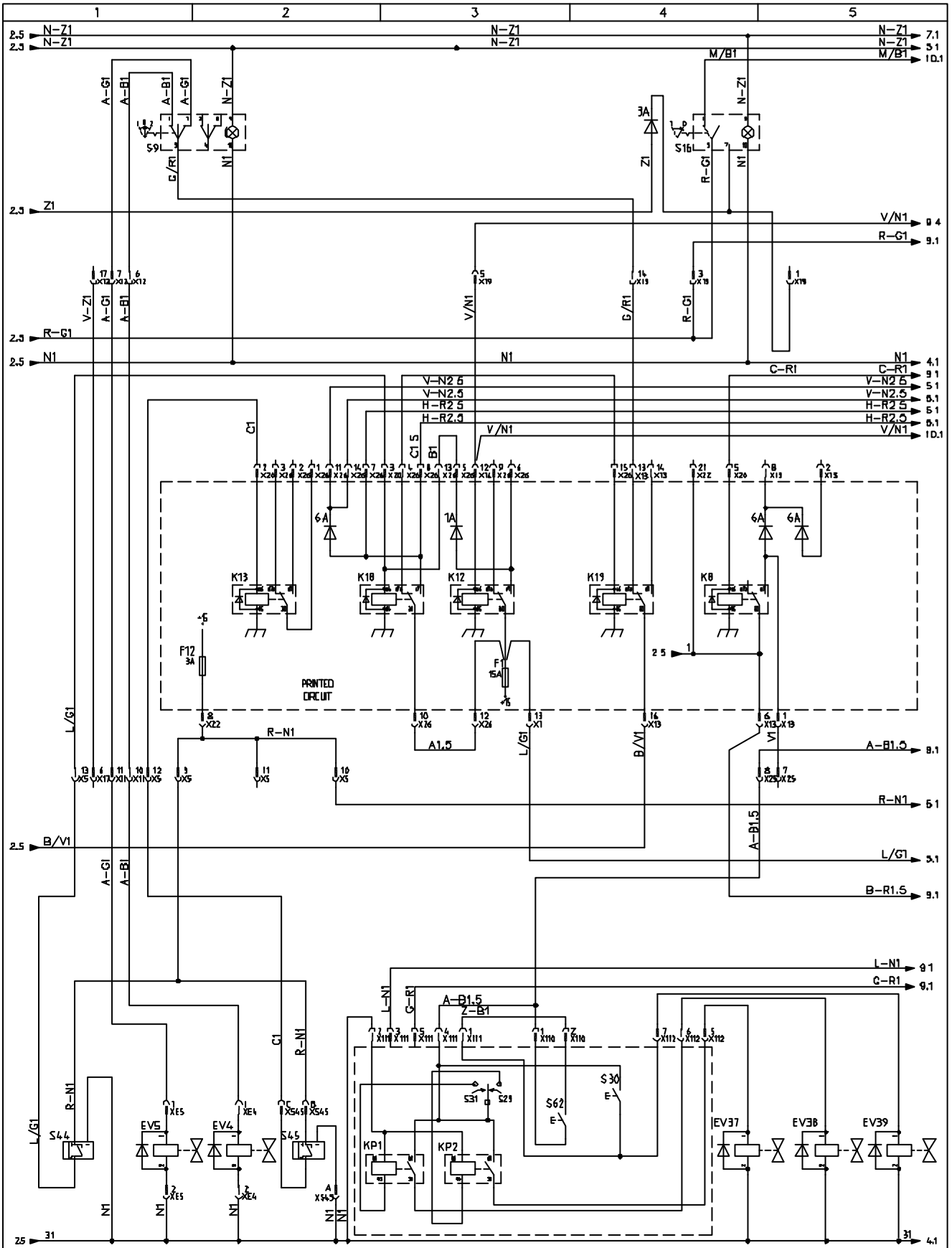
Y-G-> YELLOW-GREEN (VERTICAL STRIPES)

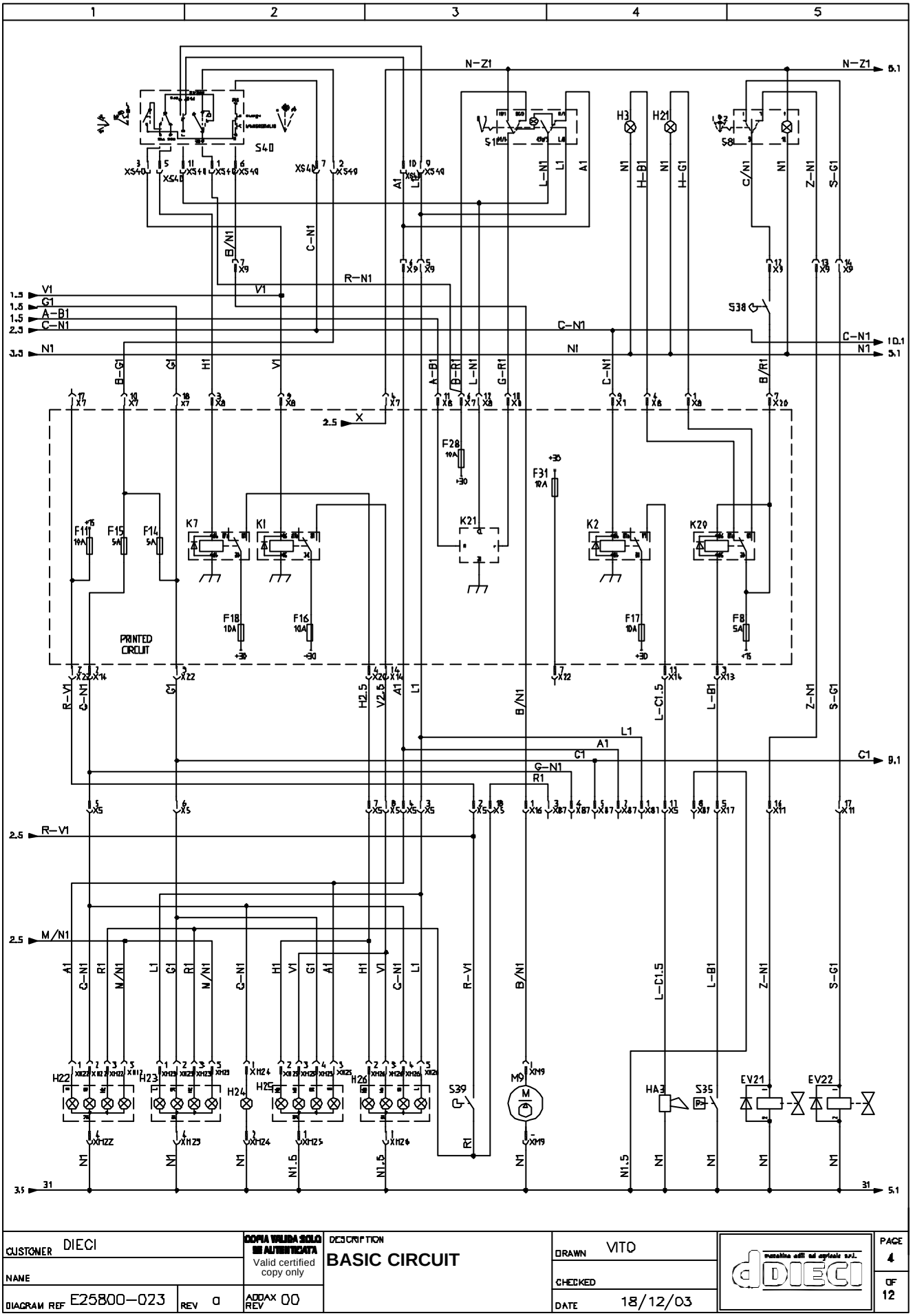
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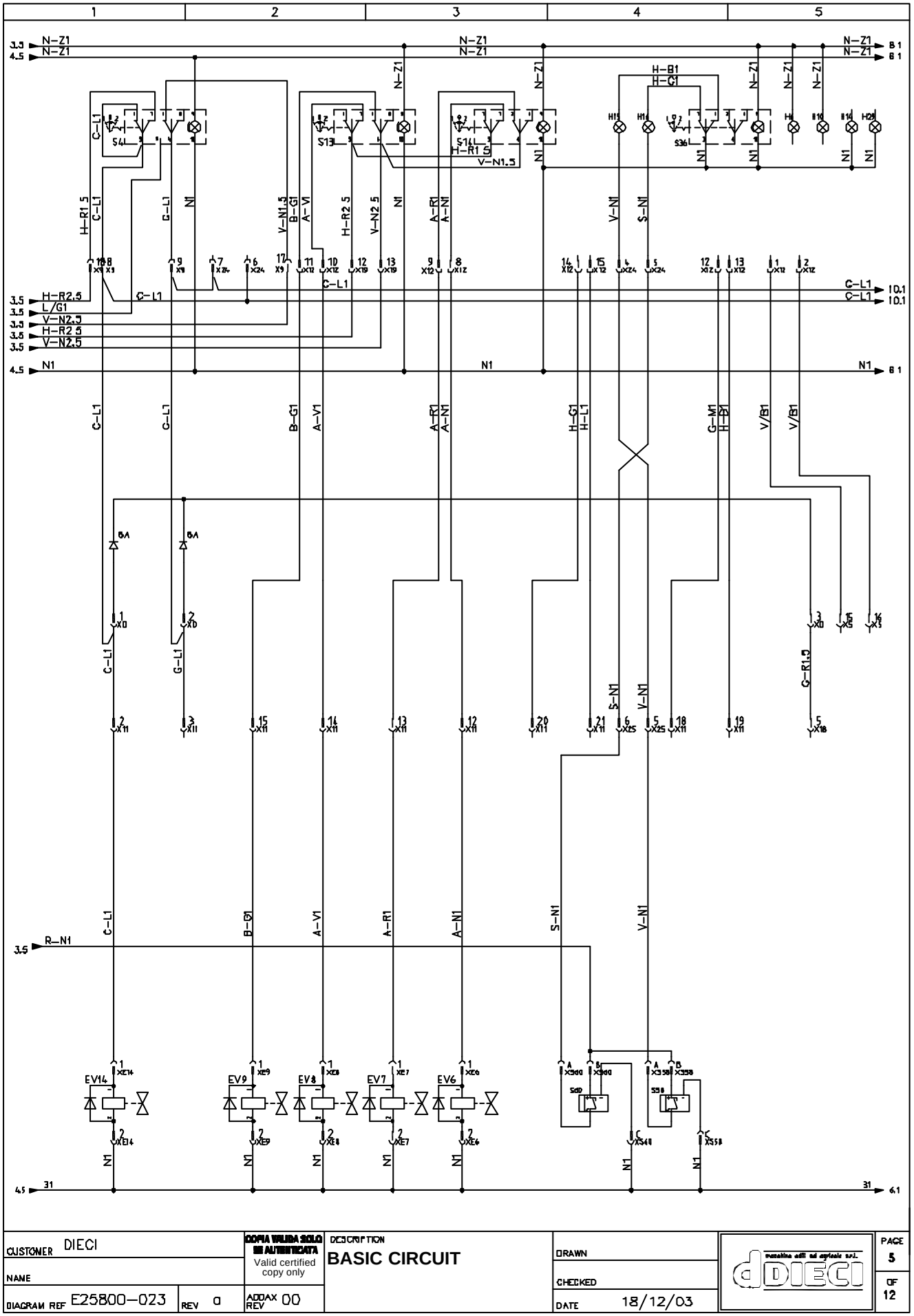

1
2
3
4
5
N-Z1
R-G1
C-N1
H-V1
B/V1
M-N1
M-B1
H-R1
N1
H/R1
Z/B1
Z/N1
A/N1
Z1
AV
RM
SED
L-G1
S/N1
M/N1
R-V1
PRINTED CIRCUIT
S37
S21
S12
S55
H30
H12
H5
F26
F6
F10
F9
F4
F3
K15
K10
K4
K9
K3
K14
EV1
EV2
HA2
EV25
S34
S47
S46
EV23
EV15
EV16
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BASIC CIRCUIT
E25800-023
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E/11

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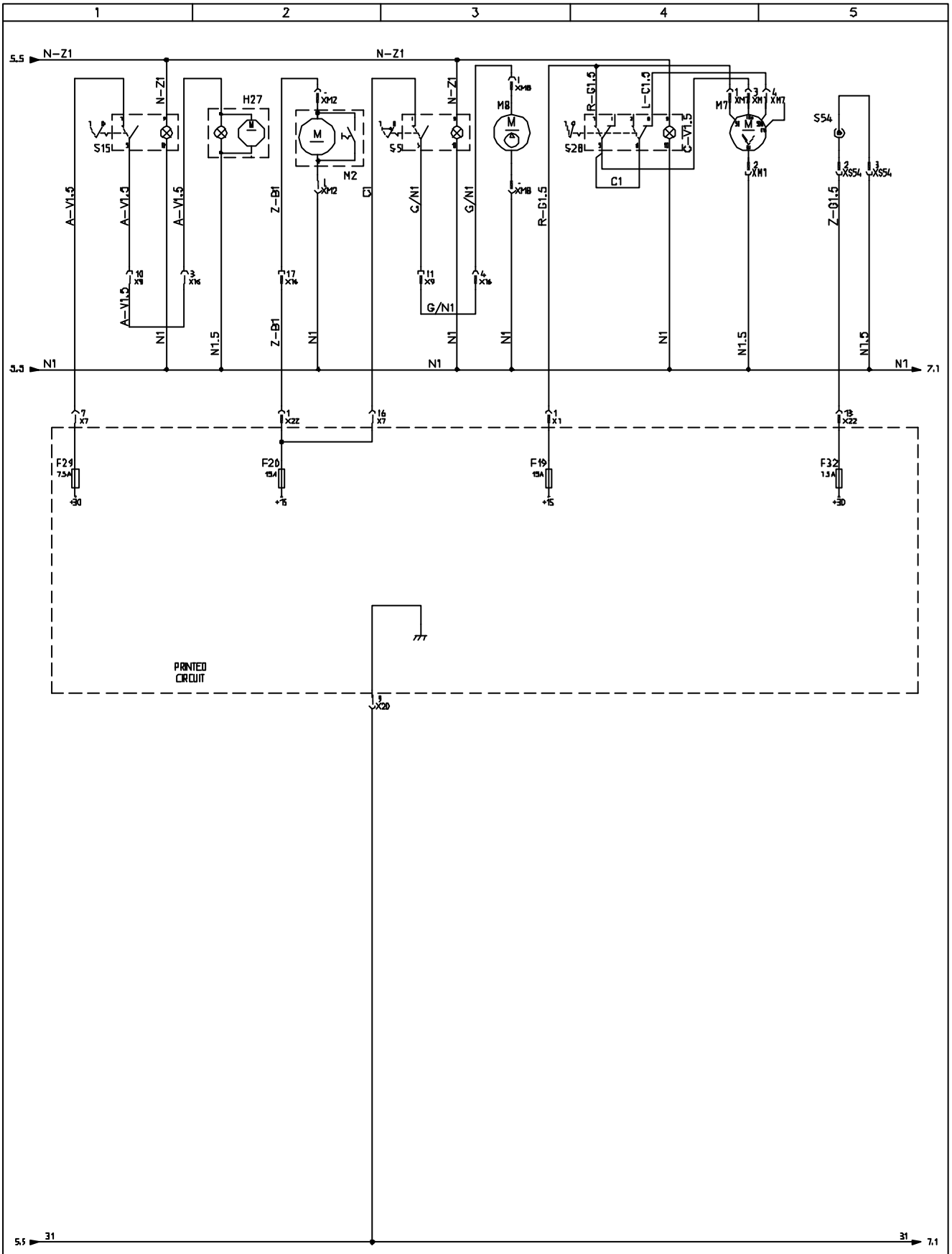



1
2
3
4
5
N-Z1
S40
S1
H3
H21
S8
B/N1
C-N1
R-N1
V1
G1
A-B1
C-N1
N1
S38
B-G1
G1
H1
V1
A-B1
B-R1
L-N1
G-R1
C-N1
B/R1
X
F28
10A
F31
10A
K7
K1
K21
K2
K20
F11
10A
F15
5A
F14
5A
F18
10A
F16
10A
F17
10A
F8
5A
PRINTED CIRCUIT
R-V1
G-N1
G1
H2.5
V2.5
A1
L1
B/N1
L-C1.5
L-B1
Z-N1
S-G1
C1
R1
M/N1
H22
H23
H24
H25
H26
S39
M9
M
HA3
S35
EV21
EV22
CUSTOMER DIECI
NAME
DIAGRAM REF E25800-023
REV a
COPIA VALIDA SOLO SE AUTENTICATA
Valid certified copy only
ADDAX REV 00
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BASIC CIRCUIT
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DATE 18/12/03
PAGE 4
OF 12

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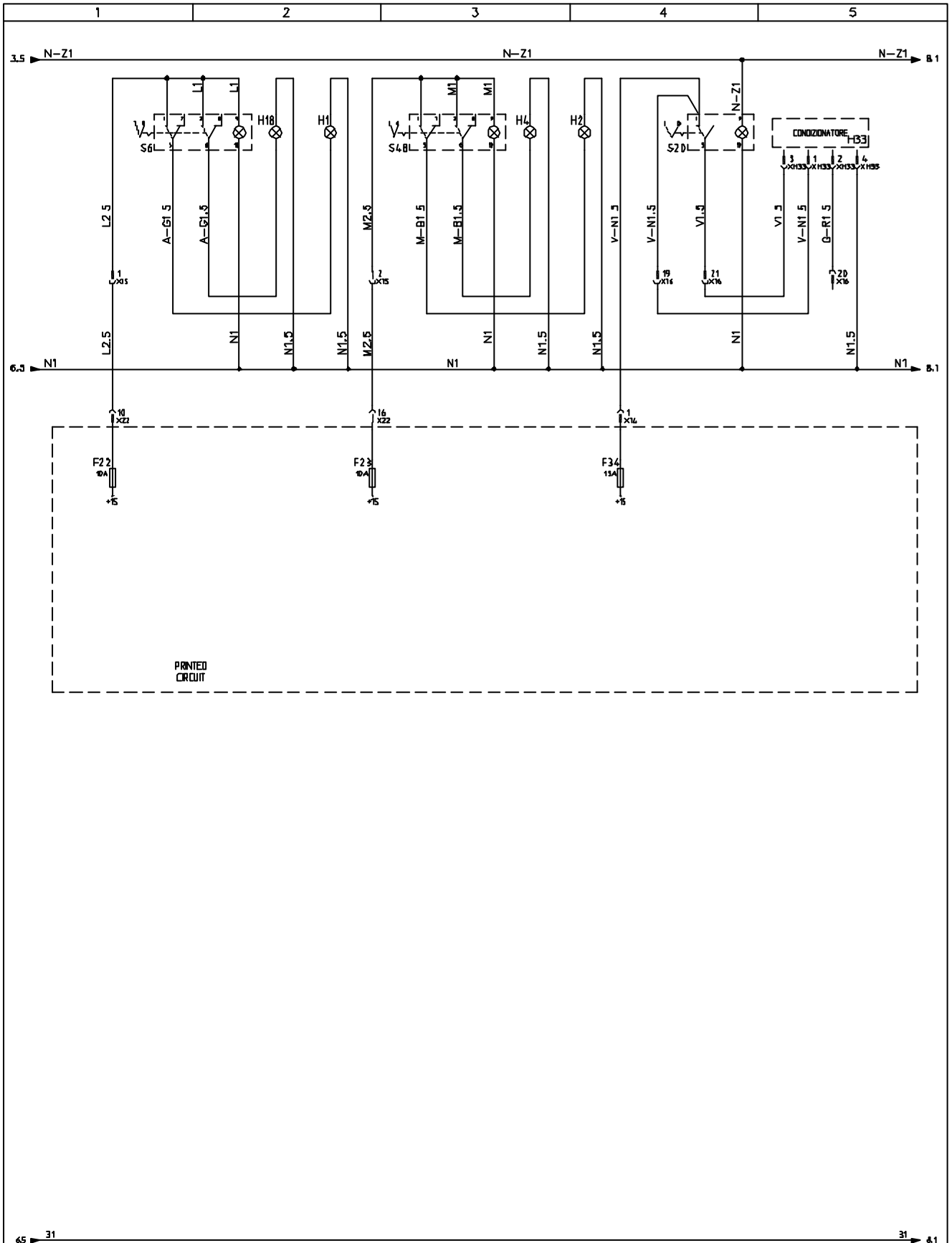


CUSTOMER DIECI	COPIA VALIDA SOLO SE AUTENTICATA Valid certified copy only	DESCRIPTION **BASIC CIRCUIT**	DRAWN		PAGE 5
NAME			CHECKED		OF 12
DIAGRAM REF E25800-023 REV a	ADDAX REV 00		DATE 18/12/03		

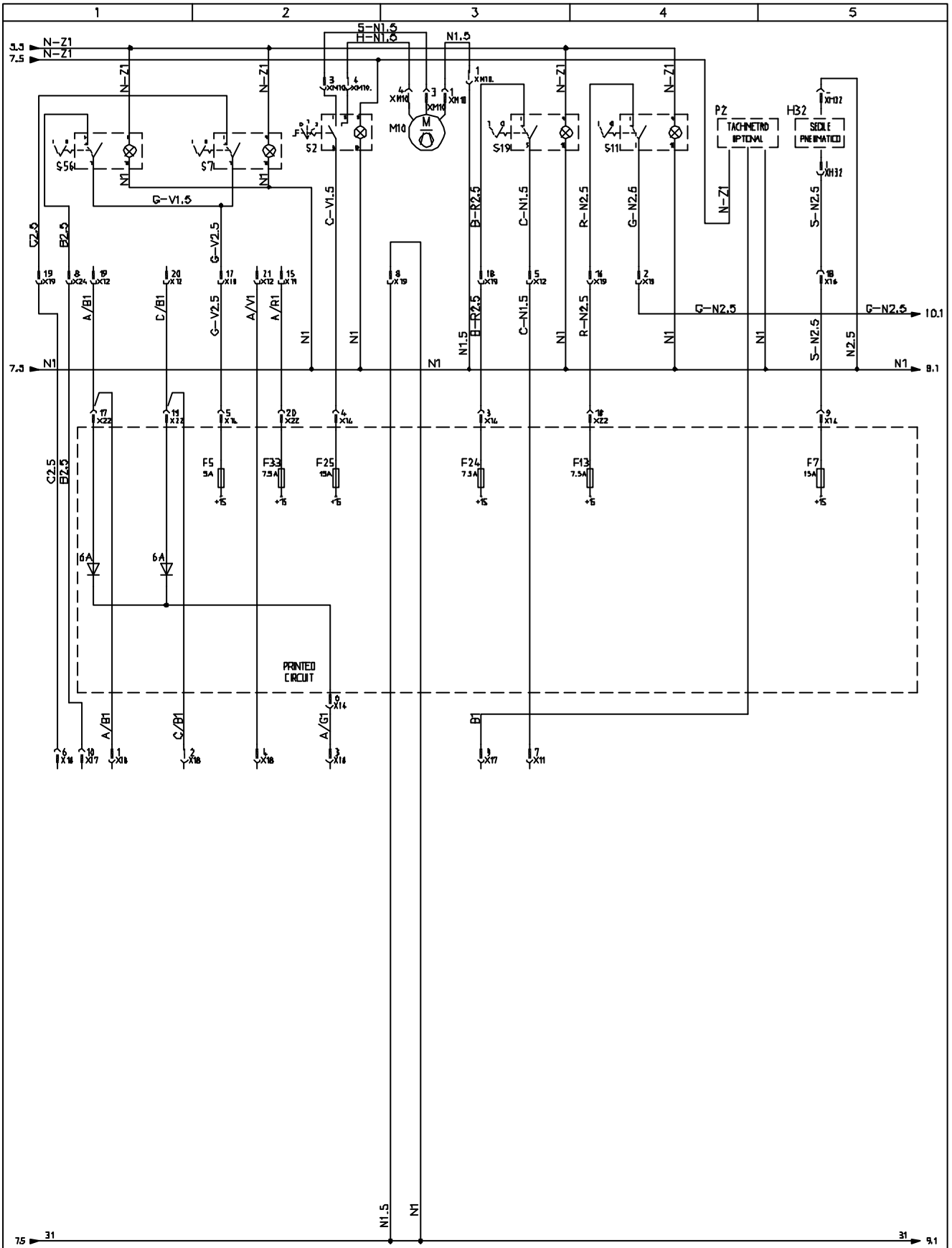


CUSTOMER DIECI	COPIA VALIDA SOLO SE AUTENTICATA Valid certified copy only	DESCRIPTION **BASIC CIRCUIT**	DRAWN VITO		PAGE 6
NAME			CHECKED		OF 12
DIAGRAM REF E25800-023 REV 0	ADDAX REV 00		DATE 18/12/03		

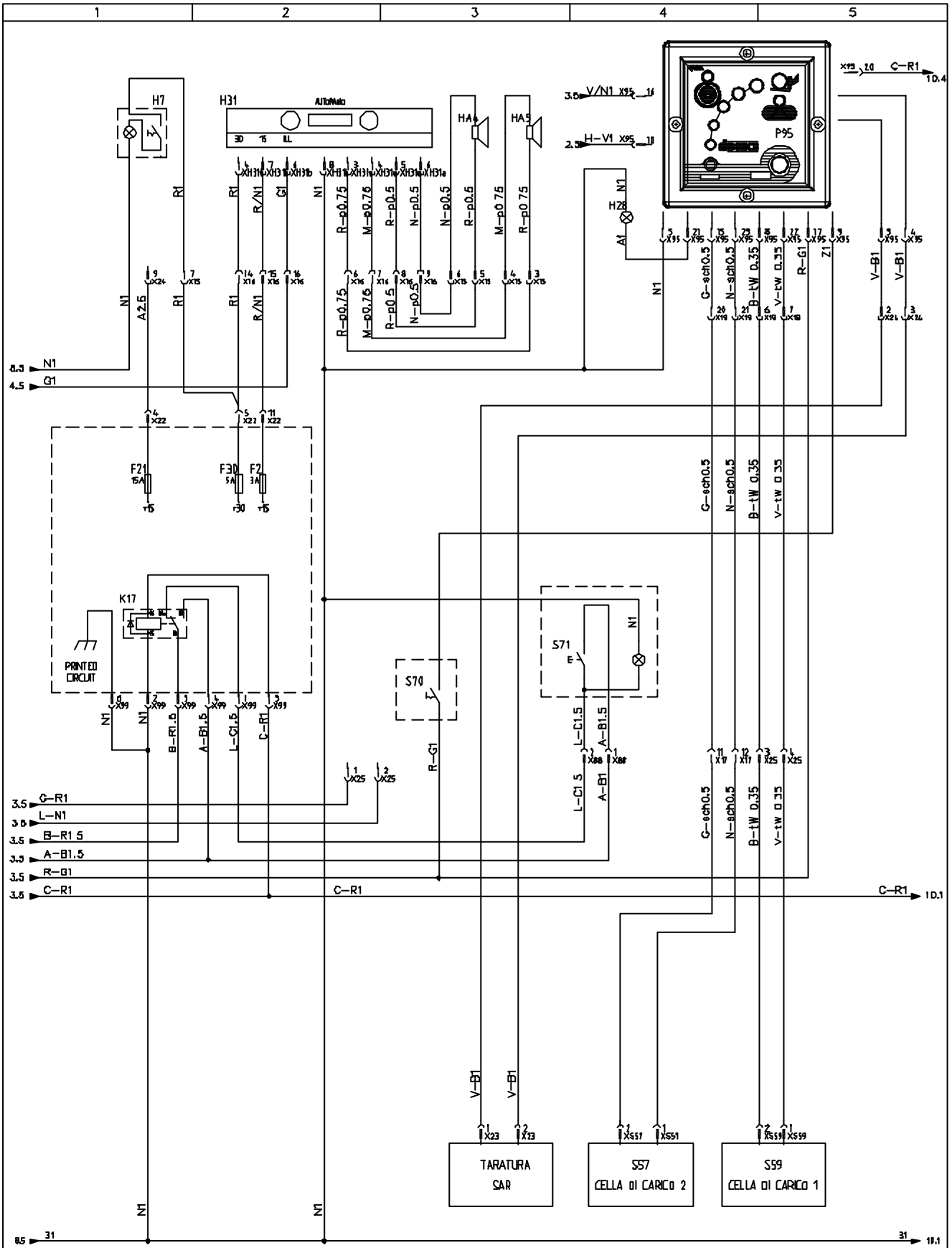
https://truckmanualshub.com/



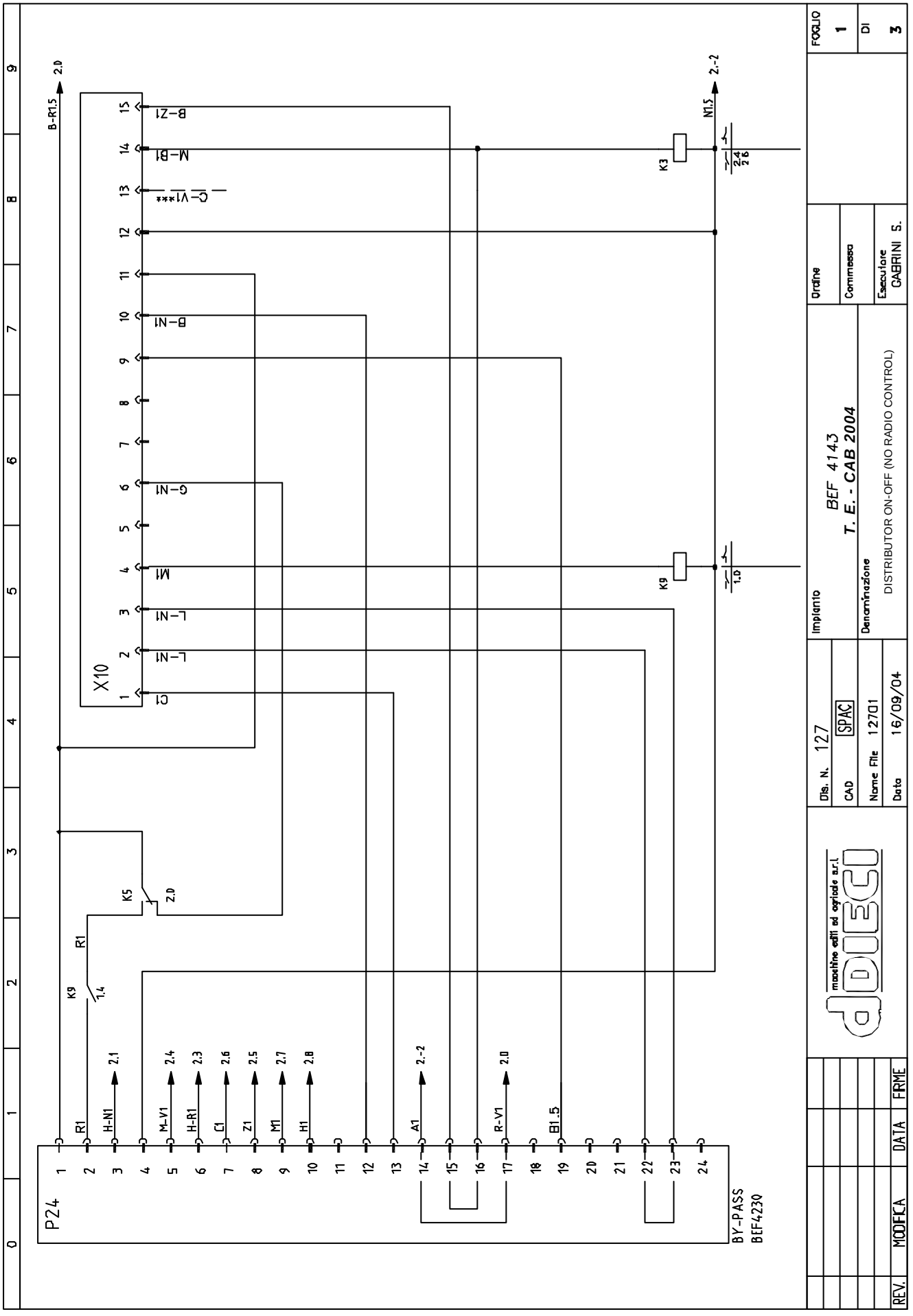
CUSTOMER DIECI		COPIA VALIDA SOLO SE AUTENTICATA Valid certified copy only	DESCRIPTION **BASIC CIRCUIT**	DRAWN		PAGE 7
NAME				CHECKED		OF 12
DIAGRAM REF E25800–023	REV 0	ADDAX REV 00		DATE 18/12/03		



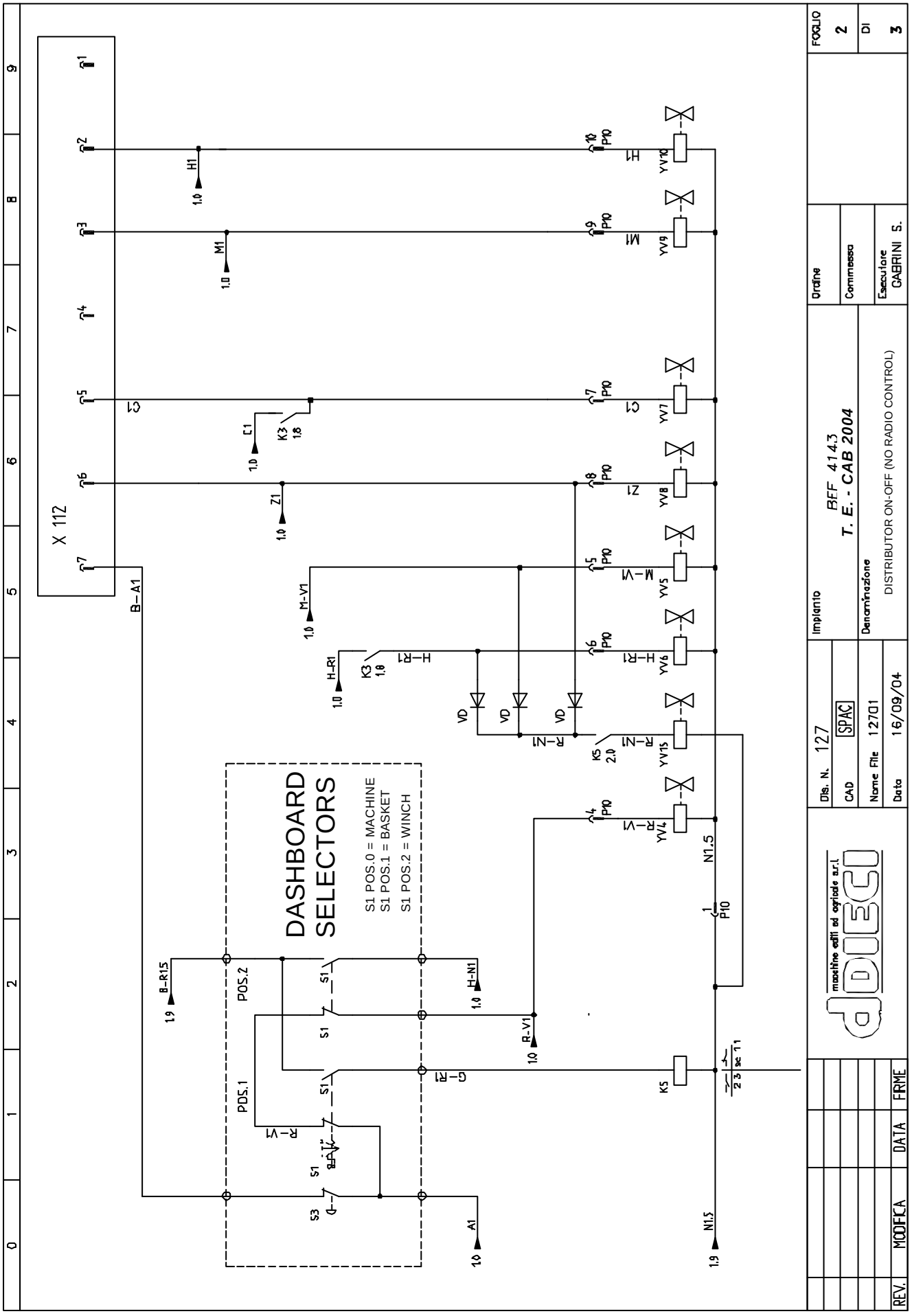
CUSTOMER DIECI	COPIA VALIDA SOLO SE AUTENTICATA Valid certified copy only	DESCRIPTION **BASIC CIRCUIT**	DRAWN		PAGE 8
NAME			CHECKED		OF 12
DIAGRAM REF E25800-023 REV a	ADDAX REV 00		DATE 18/12/03		



CUSTOMER DIECI	COPIA VALIDA SOLO SE AUTENTICATA Valid certified copy only	DESCRIPTION **BASIC CIRCUIT**	DRAWN		PAGE 9
NAME			CHECKED		OF 12
DIAGRAM REF E25800-023 REV 0	ADDAX REV 00		DATE 18/12/03		


P24
BY-PASS
BEF4230
X10
K3
K9
K5
B-R1.5
N1.5
BEF 4143
T. E. - CAB 2004
DISTRIBUTOR ON-OFF (NO RADIO CONTROL)
Dis. N. 127
CAD SPAC
Nome File 12701
Data 16/09/04
Esecutore GABRINI S.
FOGLIO 1
DI 3
REV. MODIFICA DATA FIRME

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0	1	2	3	4	5	6	7	8	9

Sim.\Sym.	Sigla\Item	Funzione\Use Type
	K3 DG 1	ANTI-TIPPING DEVICE RELAY
	K5 DG 2	BASKET RELAY
	K9 DG 1	OUTRIGGERS RELAY
	S1 DG 2	WINCH-MACHINE-BASKET SEL.
	S3 DG 2	EMERGENCY PUSH BUTTON
	VD1 DG 2	
	VD2 DG 2	
	VD3 DG 2	
	YV4 DG 2	GENERAL SV
	YV5 DG 2	UP SV
	YV6 DG 2	DOWN SV

Sim.\Sym.	Sigla\Item	Funzione\Use Type
	YV7 DG 2	EXTENSION OUT SV
	YV8 DG 2	EXTENSION IN SV
	YV9 DG 2	RH TRANSFER SV
	YV10 DG 2	LH TRANSFER SV
	YV15 DG 2	BASKET SPEED REGULATOR SV
	P10	ILME 10-PIN SOCKET DISTRIBUTION LINE
	P24	ILME 24-PIN SOCKET BOOM HEAD
	X10	CIAM 15-PIN CONNECTOR
	X112	MARK 7-WAY CONNECTOR TO THE JOYSTICK

Sim.\Sym.	Sigla\Item	Funzione\Use Type
	BEF 4260	BEF SOLENOID VALVE LINE DISTRIBUTOR

REV.	MODIFICA	DATA	FIRME

macchine edili ed agricole s.r.l.

Dis. N.	127
CAD	SPAC
Name File	12701
Data	16/09/04

Impianto: BEF 4143
T. E. - CAB 2004

Denominazione: DISTRIBUTOR ON-OFF (NO RADIO CONTROL)

Ordine

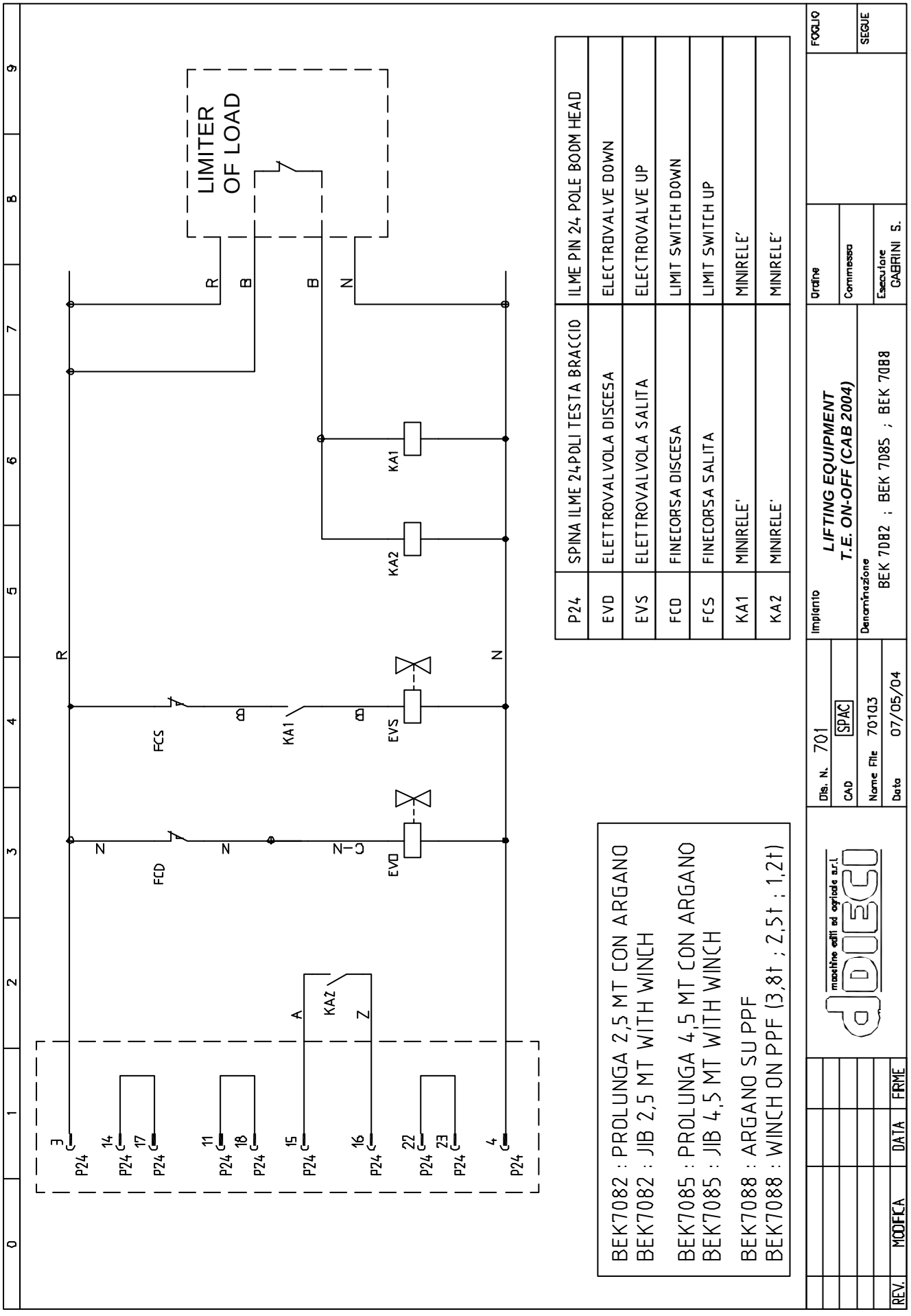
Commessa

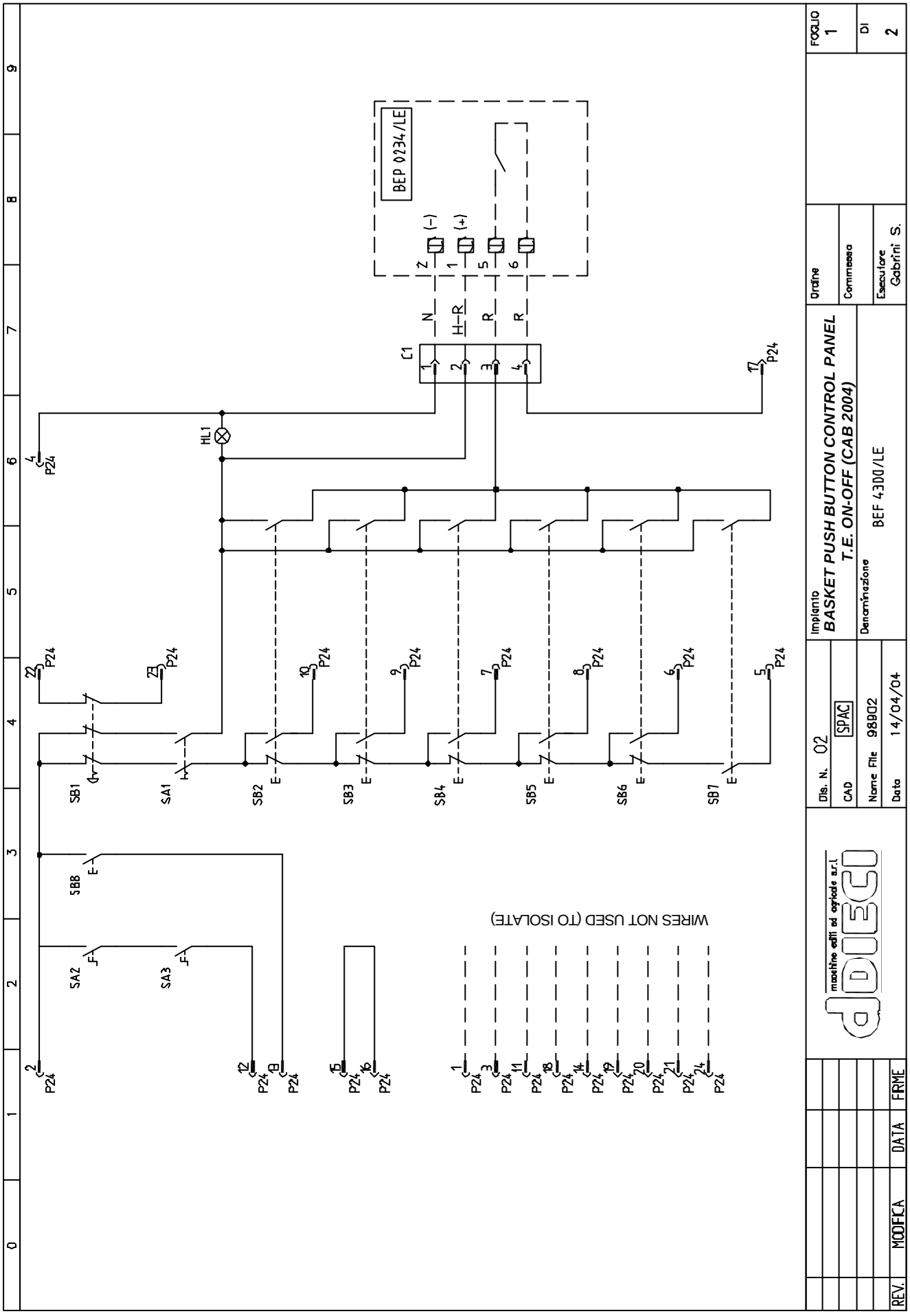
Esecutore: GABRINI S.

FOGLIO 3

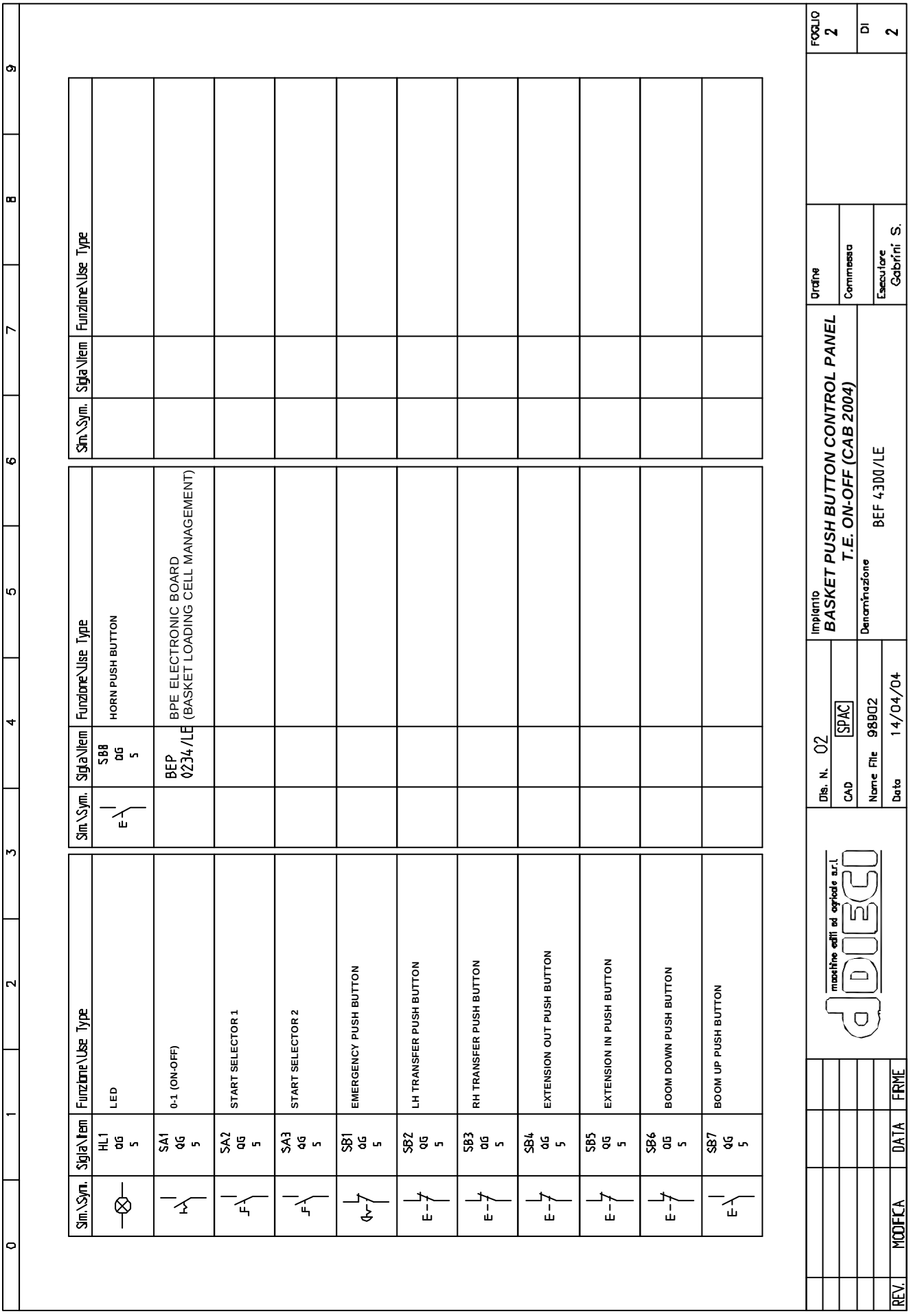
DI 3

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LIMITER OF LOAD
R
B
B
N
KA1
KA2
FCS
KA1
EVS
FCD
EVD
R
N
A
KA2
Z
P24
3
14
17
11
18
15
16
22
23
4
BEK7082 : PROLUNGA 2,5 MT CON ARGANO
BEK7082 : JIB 2,5 MT WITH WINCH
BEK7085 : PROLUNGA 4,5 MT CON ARGANO
BEK7085 : JIB 4,5 MT WITH WINCH
BEK7088 : ARGANO SU PPF
BEK7088 : WINCH ON PPF (3,8t ; 2,5t ; 1,2t)
P24 SPINA ILME 24POLI TESTA BRACCIO
EVD ELETTROVALVOLA DISCESA
EVS ELETTROVALVOLA SALITA
FCD FINECORSA DISCESA
FCS FINECORSA SALITA
KA1 MINIRELE'
KA2 MINIRELE'
ILME PIN 24 POLE BOOM HEAD
ELECTROVALVE DOWN
ELECTROVALVE UP
LIMIT SWITCH DOWN
LIMIT SWITCH UP
MINIRELE'
MINIRELE'
REV.
MODIFICA
DATA
FIRME
macchine edili ed agricole s.r.l.
dDIECI
Dis. N. 701
CAD SPAC
Nome File 70103
Data 07/05/04
Impianto
LIFTING EQUIPMENT
T.E. ON-OFF (CAB 2004)
Denominazione
BEK 7082 ; BEK 7085 ; BEK 7088
Ordine
Commessa
Eseguitore GABRINI S.
FOGLIO
SEGUE


BEP 0234/LE
C1
HL1
SB1
SA1
SB2
SB3
SB4
SB5
SB6
SB7
SB8
SA2
SA3
WIRES NOT USED (TO ISOLATE)
Impianto
BASKET PUSH BUTTON CONTROL PANEL
T.E. ON-OFF (CAB 2004)
Denominazione
BEF 4300/LE
Ordine
Commessa
Esecutore
Gabrini S.
FOGLIO 1
DI 2
Dis. N. 02
CAD SPAC
Name File 98902
Data 14/04/04
REV.
MODIFICA
DATA
FIRME

https://truckmanualshub.com/



Sim.\Sym.	Sigla\Item	Funzione\Use Type
	HL1 QG 5	LED
	SA1 QG 5	0-1 (ON-OFF)
	SA2 QG 5	START SELECTOR 1
	SA3 QG 5	START SELECTOR 2
	SB1 QG 5	EMERGENCY PUSH BUTTON
	SB2 QG 5	LH TRANSFER PUSH BUTTON
	SB3 QG 5	RH TRANSFER PUSH BUTTON
	SB4 QG 5	EXTENSION OUT PUSH BUTTON
	SB5 QG 5	EXTENSION IN PUSH BUTTON
	SB6 QG 5	BOOM DOWN PUSH BUTTON
	SB7 QG 5	BOOM UP PUSH BUTTON

Sim.\Sym.	Sigla\Item	Funzione\Use Type
E	SB8 QG 5	HORN PUSH BUTTON
BEP 0234/LE		BPE ELECTRONIC BOARD (BASKET LOADING CELL MANAGEMENT)

Sim.\Sym.	Sigla\Item	Funzione\Use Type

REV.	MODIFICA	DATA	FIRME

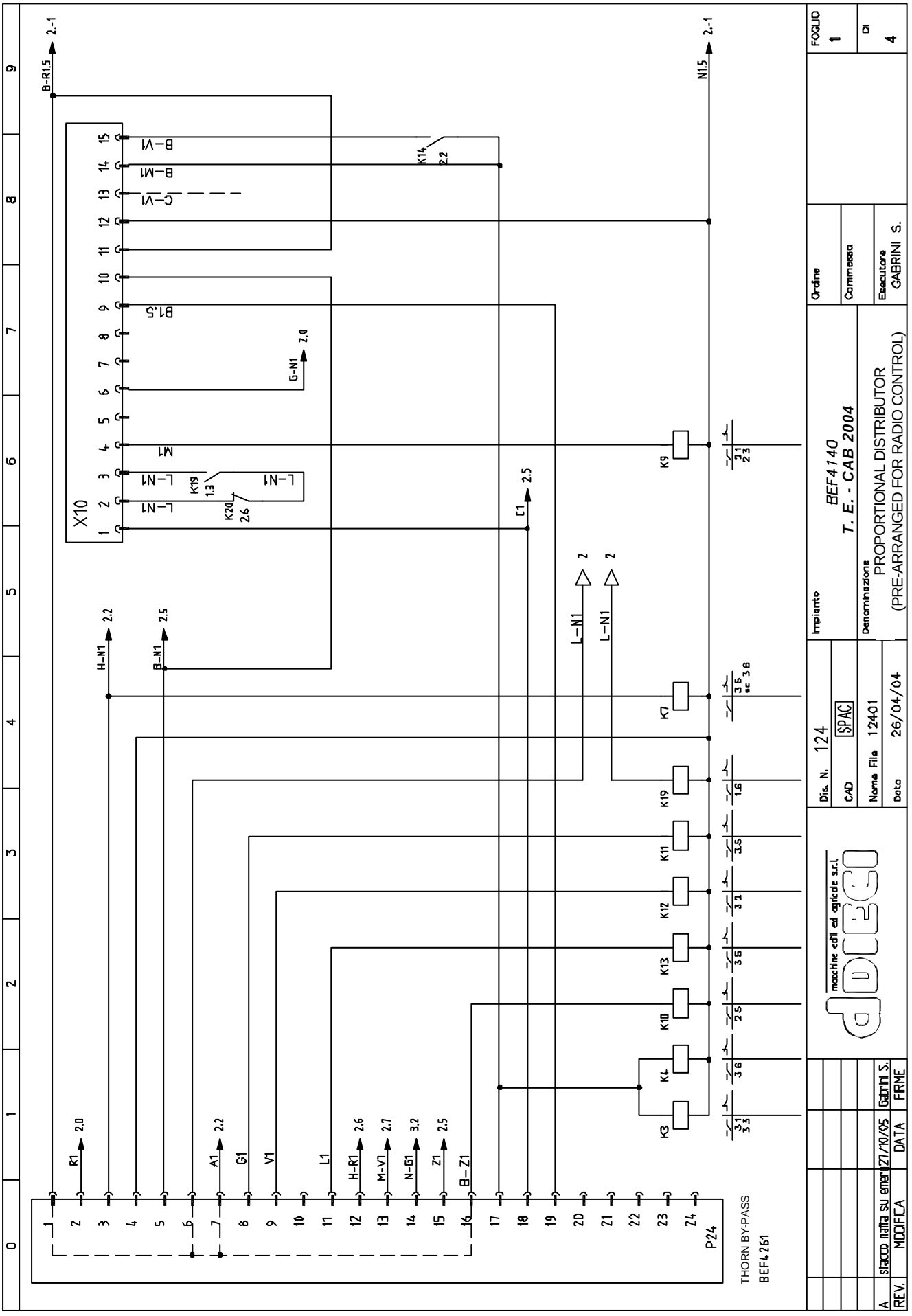
macchine edili ed agricole s.r.l. dieci

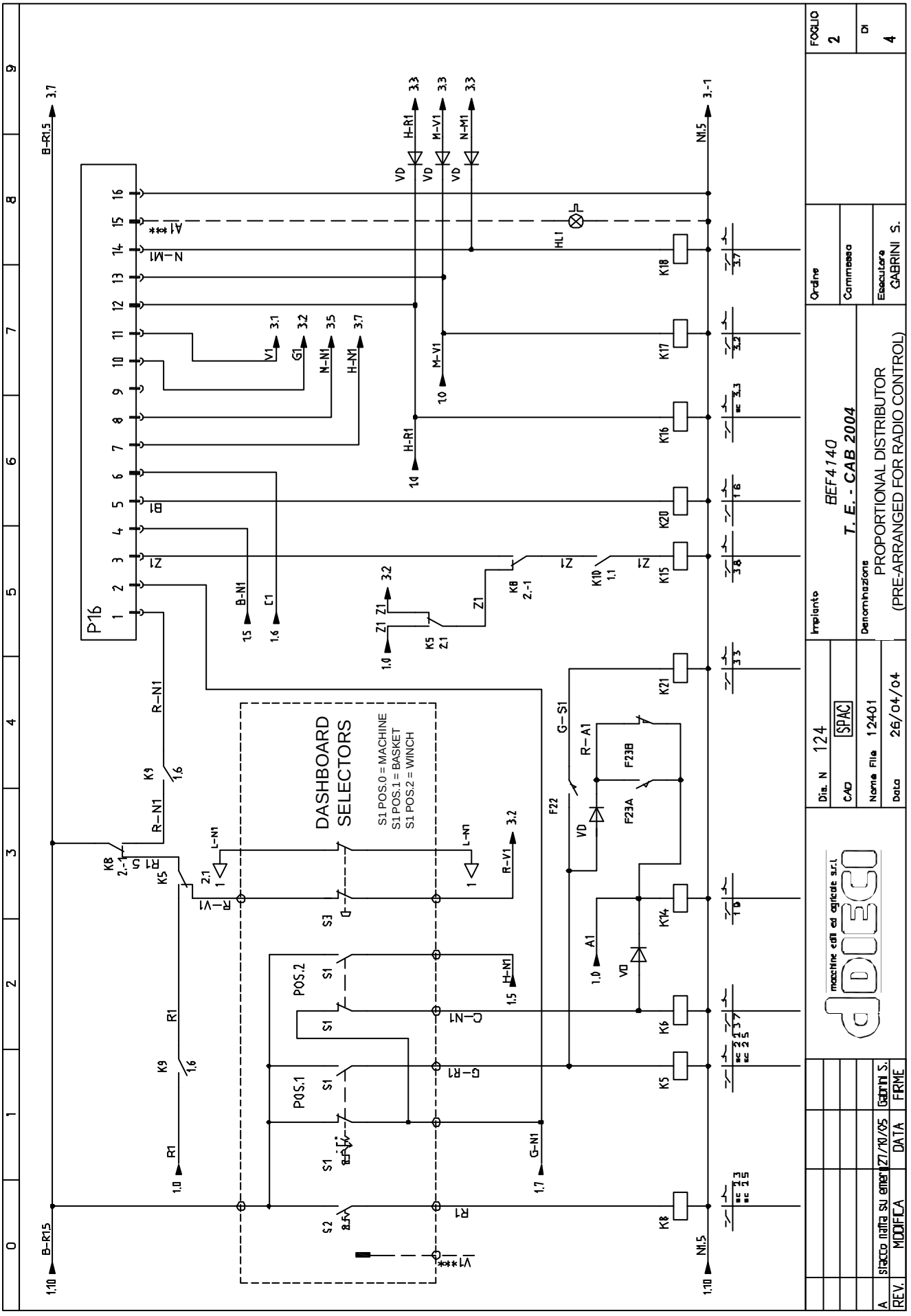
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CAD SPAC
Name File 98902
Data 14/04/04

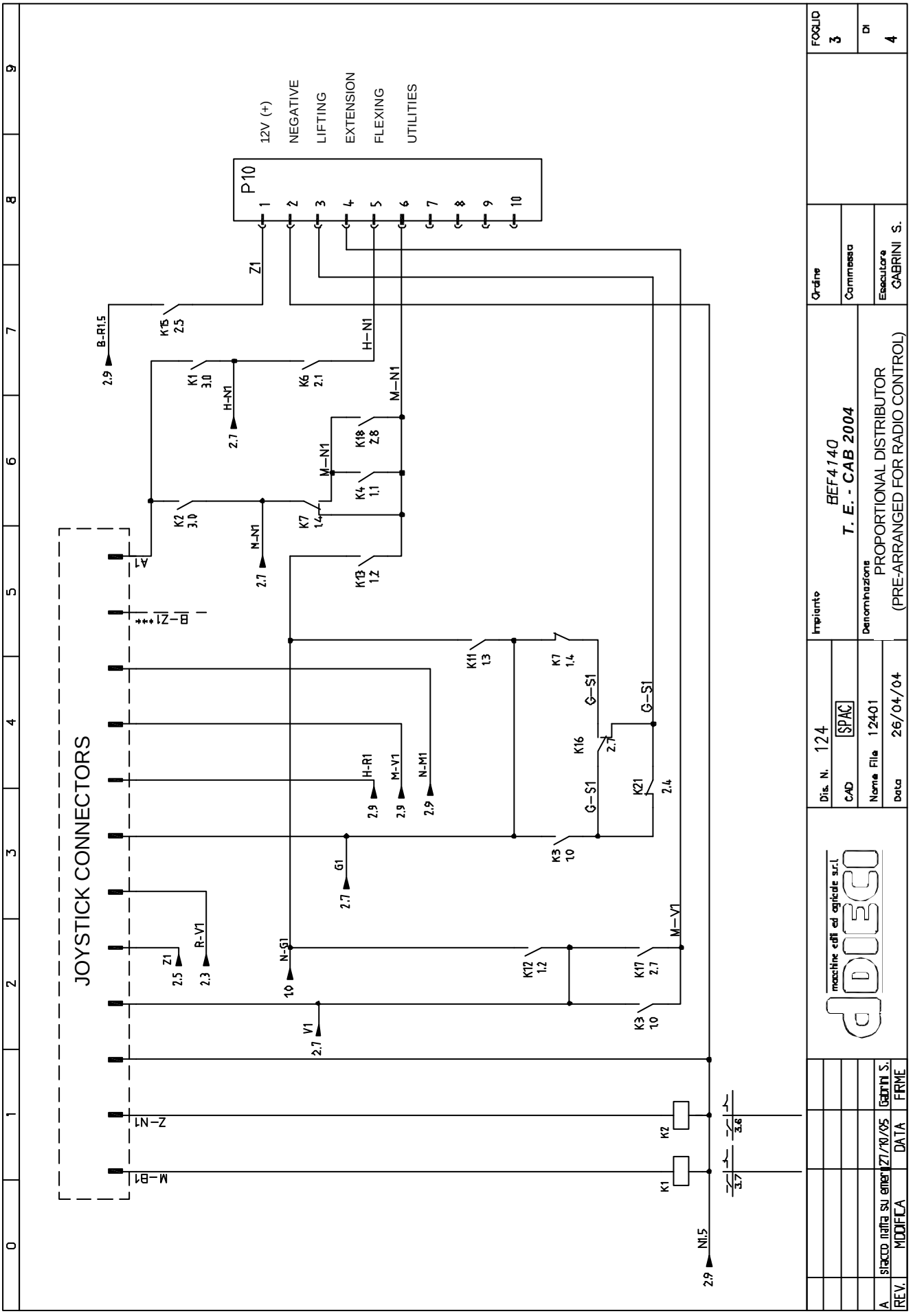
Impianto
BASKET PUSH BUTTON CONTROL PANEL
T.E. ON-OFF (CAB 2004)
Denominazione
BEF 4300/LE

Ordine
Commessa
Eseguire Gabrini S.

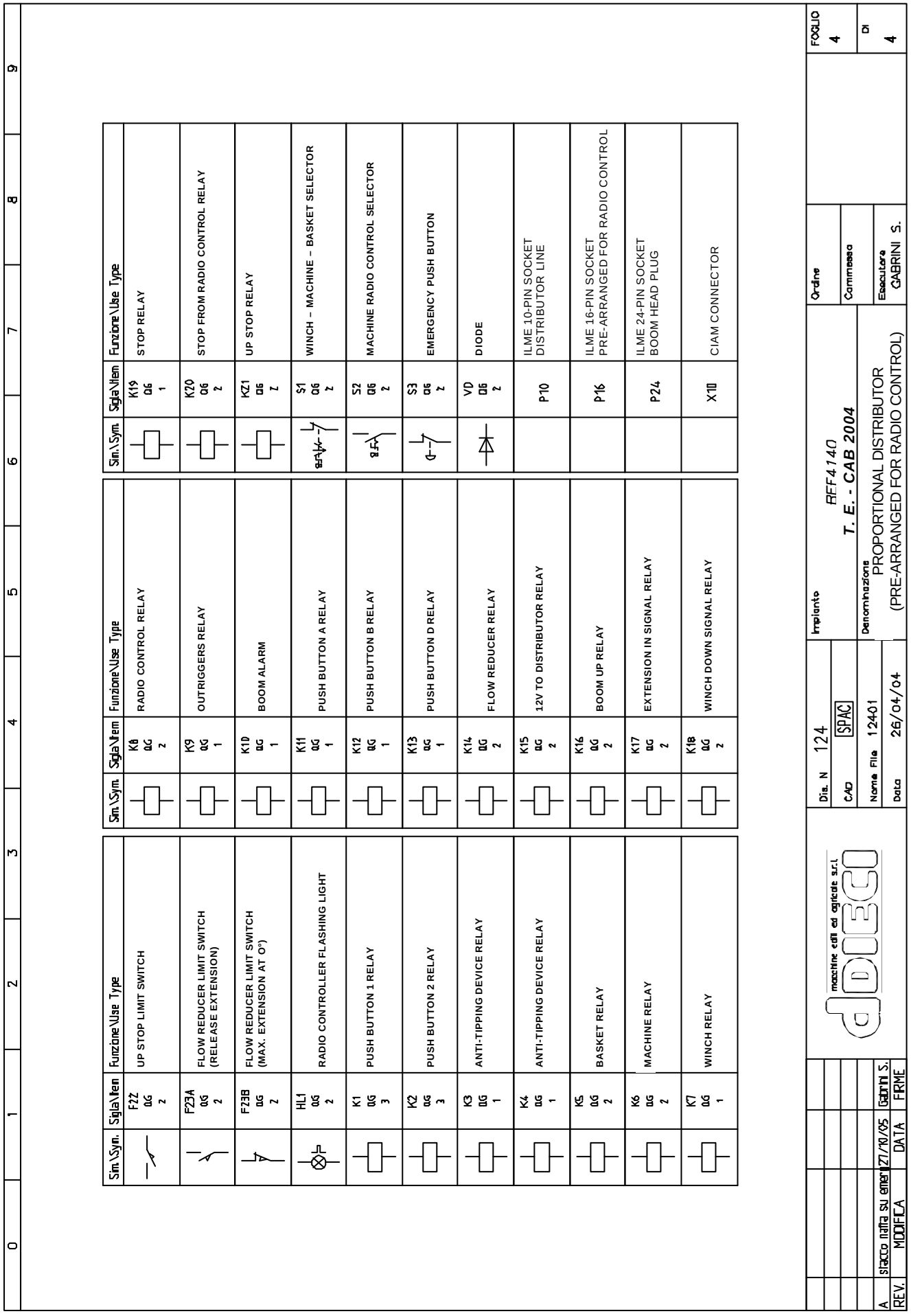
FOGLIO 2
DI 2


THORN BY-PASS
BEF4261
P24
X10
K1
K2
K3
K4
K5
K6
K7
K8
K9
K10
K11
K12
K13
K14
K15
K16
K17
K18
K19
K20
B-R1.5
B1.5
B-V1
B-M1
C-V1
G-N1
M1
L-N1
H-N1
B-N1
N1.5
C1
R1
A1
G1
V1
L1
H-R1
M-V1
N-G1
Z1
B-Z1
REV.
A
MODIFICA
stacco nafta su emer
DATA
27/10/05
FIRME
Gabrini S.
macchine edili ed agricole s.r.l.
Dis. N. 124
CAD
SPAC
Nome File 12401
Data 26/04/04
Impianto
BEF4140
T. E. - CAB 2004
Denominazione
PROPORTIONAL DISTRIBUTOR
(PRE-ARRANGED FOR RADIO CONTROL)
Ordine
Commessa
Esecutore
GABRINI S.
FOGLIO
1
DI
4

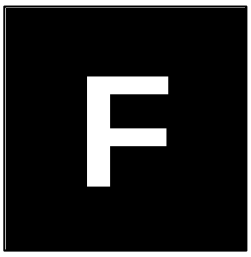

DASHBOARD SELECTORS
S1 POS.0 = MACHINE
S1 POS.1 = BASKET
S1 POS.2 = WINCH
P16
BEF4140
T. E. - CAB 2004
PROPORTIONAL DISTRIBUTOR
(PRE-ARRANGED FOR RADIO CONTROL)
Dis. N 124
CAD SPAC
Nome File 12401
Data 26/04/04
Esecutore GABRINI S.
FOGLIO 2
DI 4
A stacco nafta su emer 27/10/05 Gabrini S.
REV. MODIFICA DATA FIRME


JOYSTICK CONNECTORS
P10
12V (+)
NEGATIVE
LIFTING
EXTENSION
FLEXING
UTILITIES
BEF4140
T. E. - CAB 2004
PROPORTIONAL DISTRIBUTOR
(PRE-ARRANGED FOR RADIO CONTROL)
Dis. N. 124
CAD SPAC
Nome File 12401
Data 26/04/04
Esecutore GABRINI S.
FOGLIO 3
DI 4
A stacco natta su emer 27/10/05 Gabrini S.
REV. MODIFICA DATA FIRME

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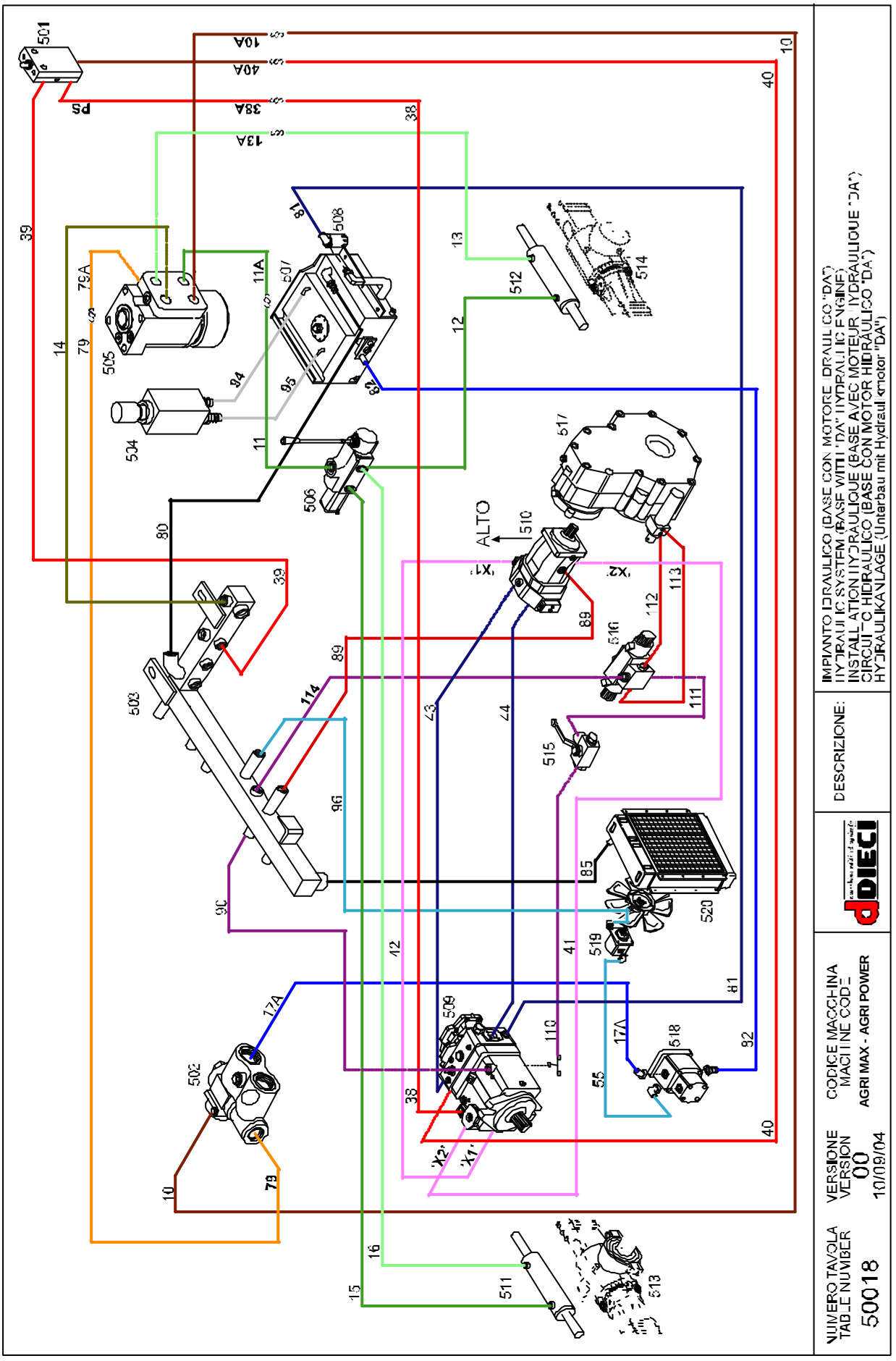
HYDRAULIC CIRCUITS



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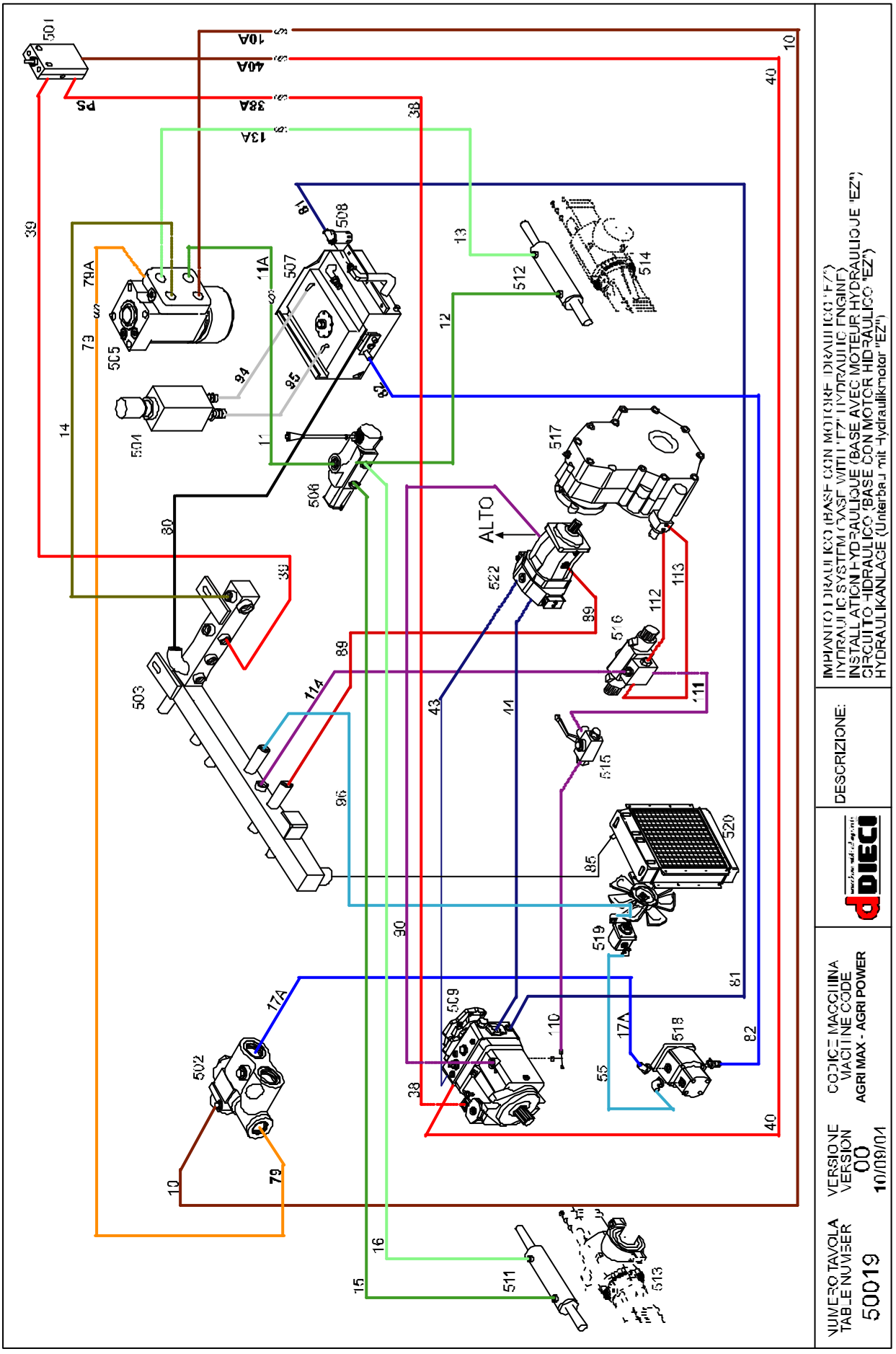
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BASE WITH HYDRAULIC ENGINE "DA" AGRI MAX - AGRI POWER SERIES

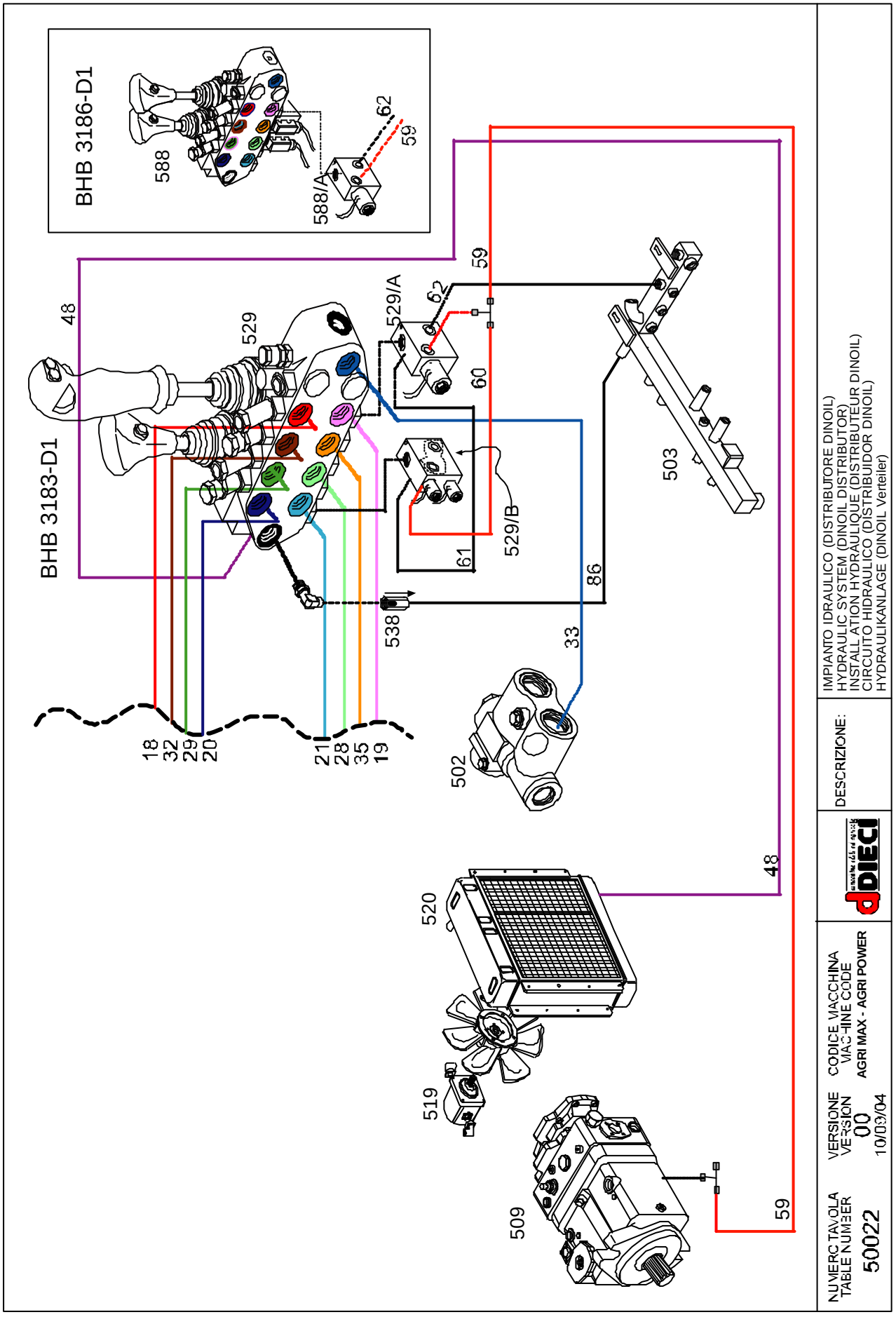


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BASE WITH HYDRAULIC ENGINE “EZ” AGRI MAX - AGRI POWER SERIES

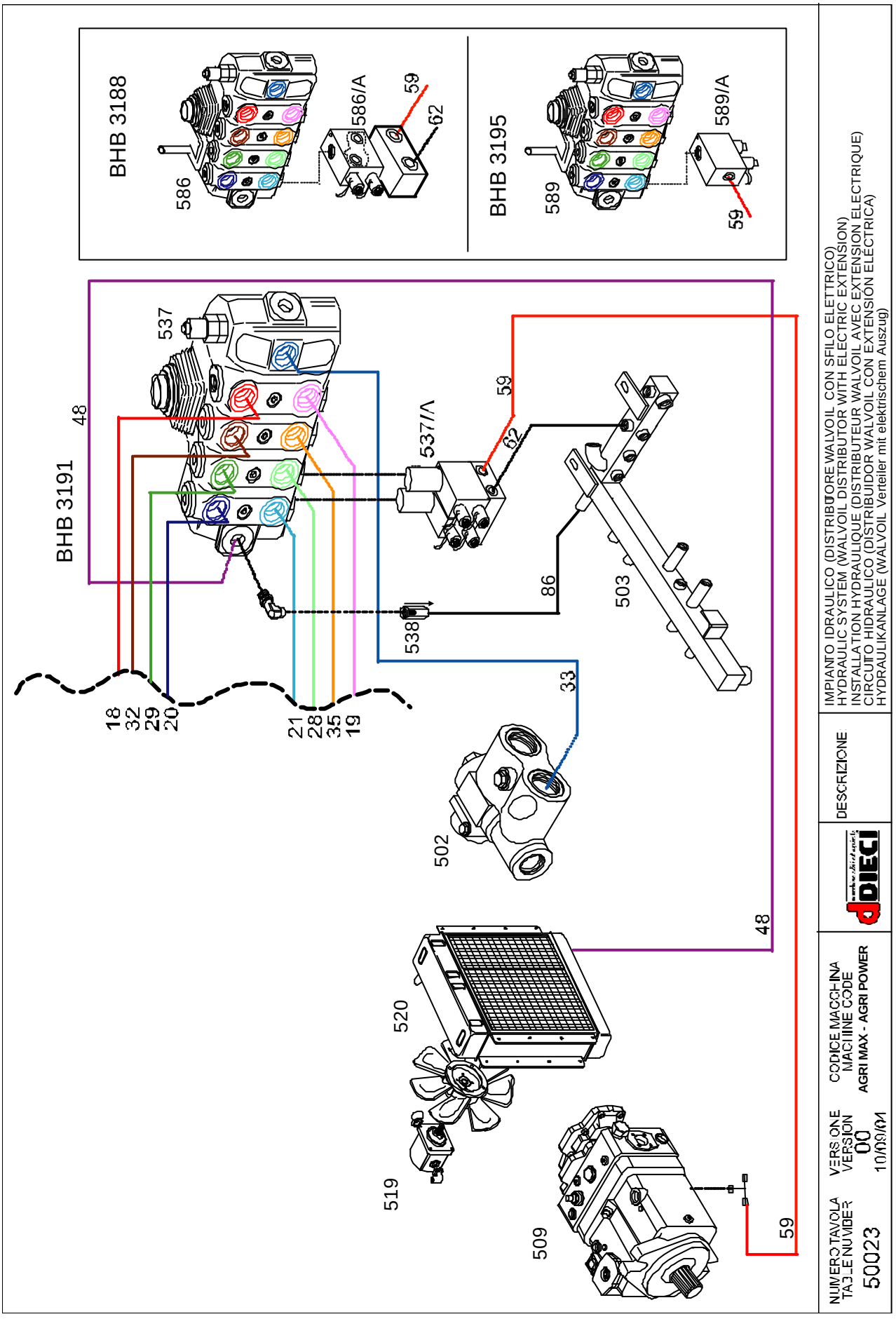


DINOIL DISTRIBUTOR AGRI MAX - AGRI POWER SERIES

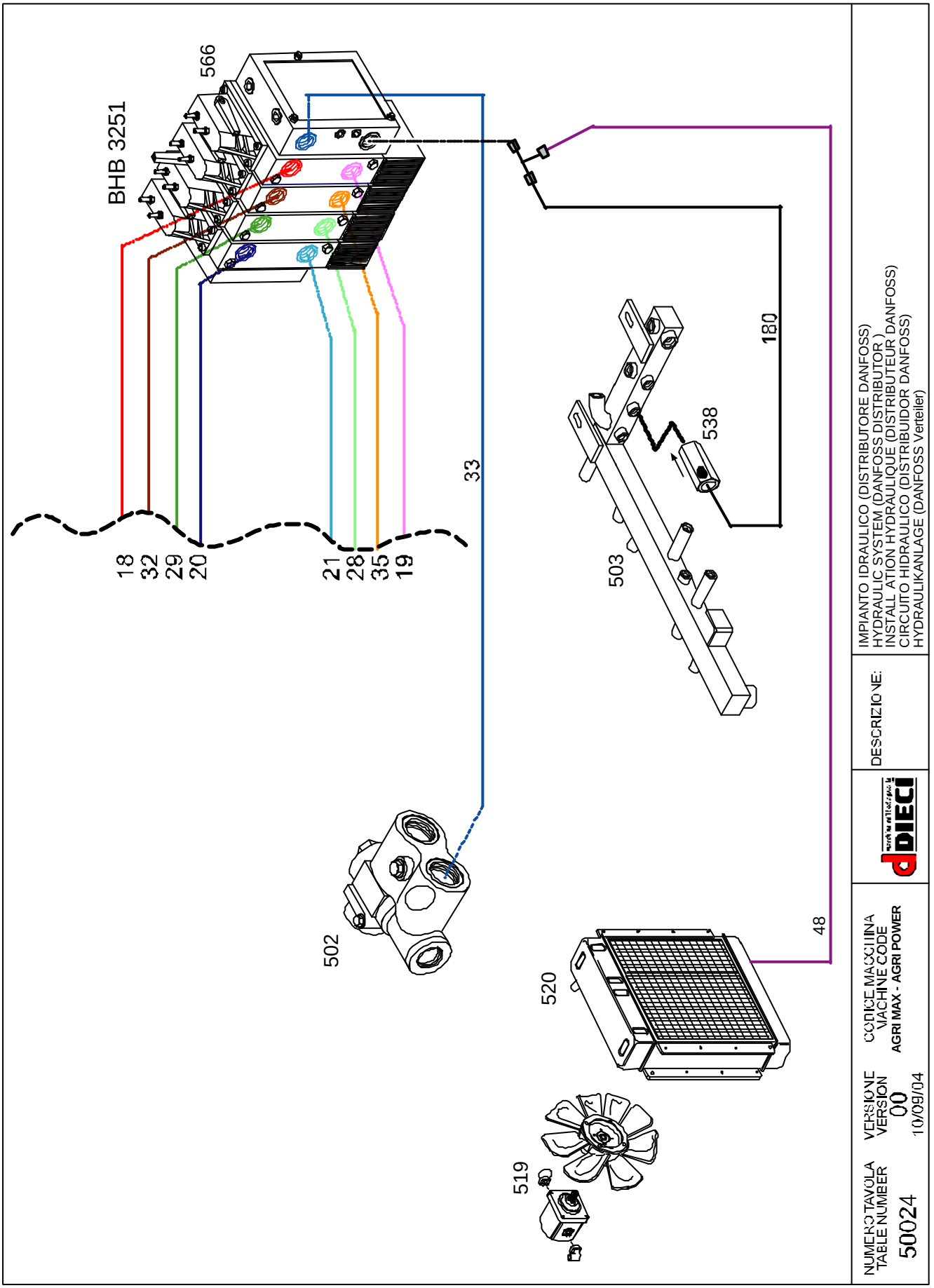


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WALVOIL DISTRIBUTOR WITH ELECTRIC EXTENSION AGRI MAX - AGRI POWER SERIES

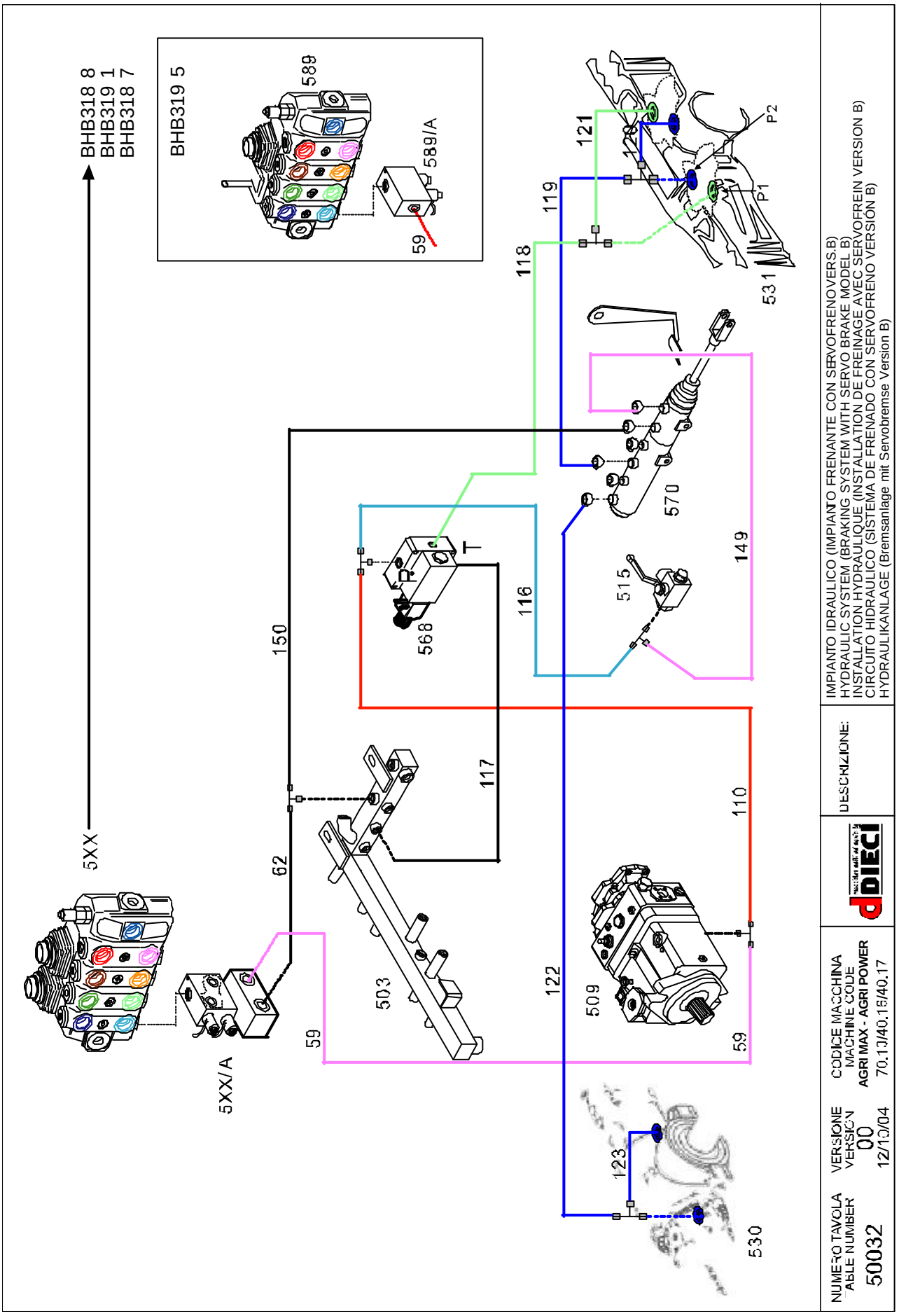


DANFOSS DISTRIBUTOR AGRI MAX - AGRI POWER SERIES

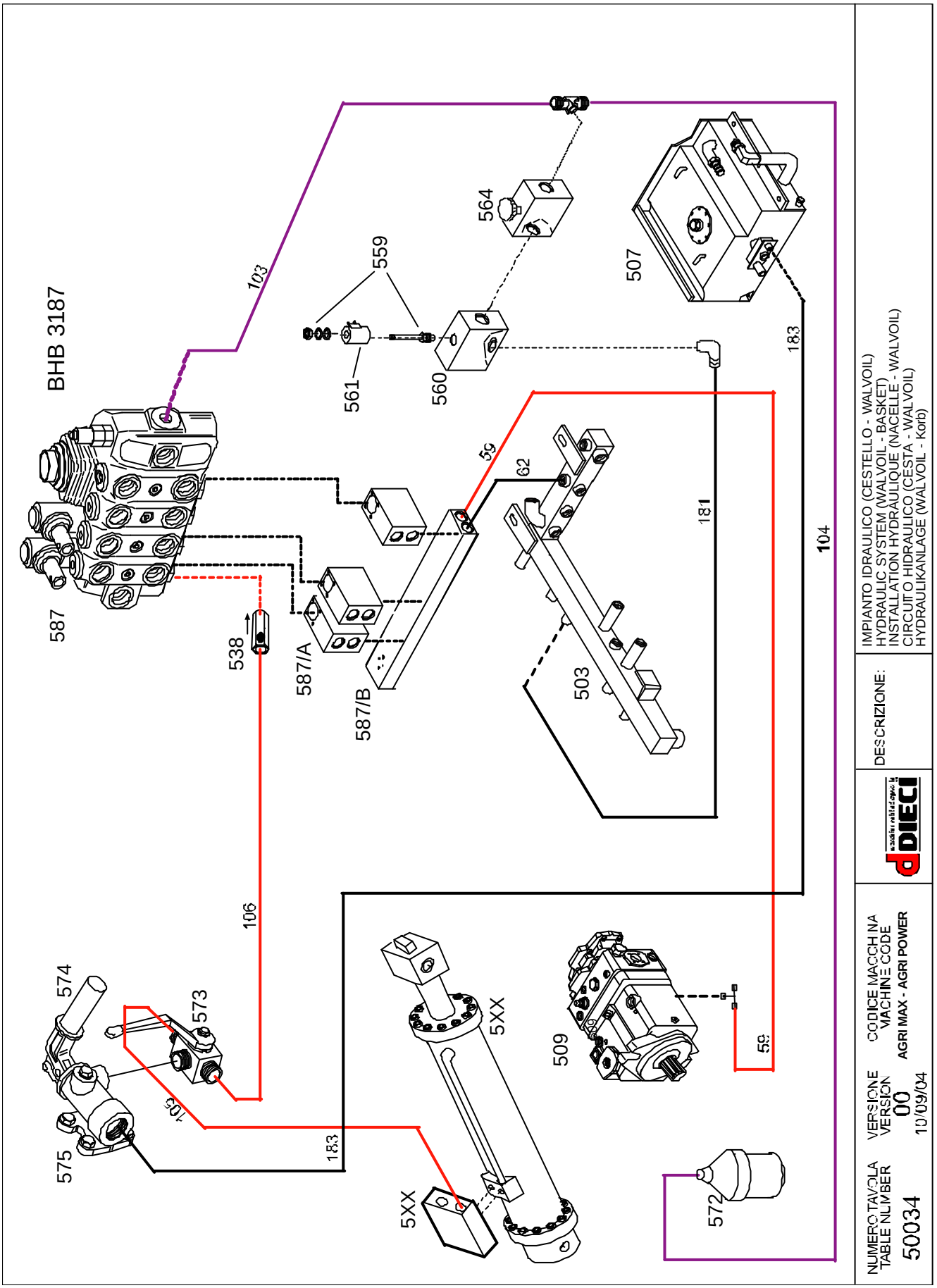


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BRAKING SYSTEM WITH SERVOBRAKE VERS.B AGRI MAX - AGRI POWER SERIES 70.10 / 40.16 / 4017

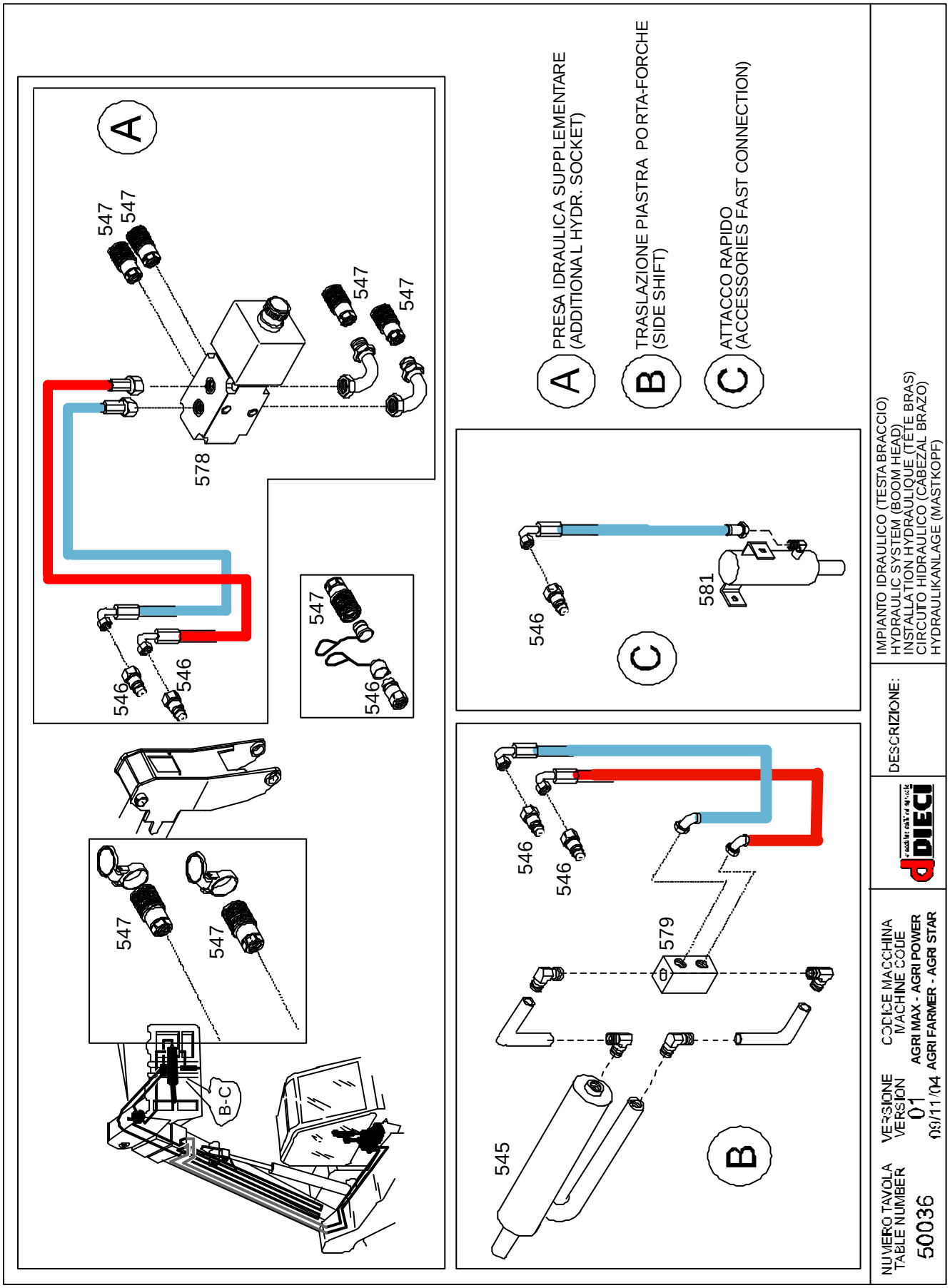


BASKET – WALVOIL AGRI MAX - AGRI POWER SERIES

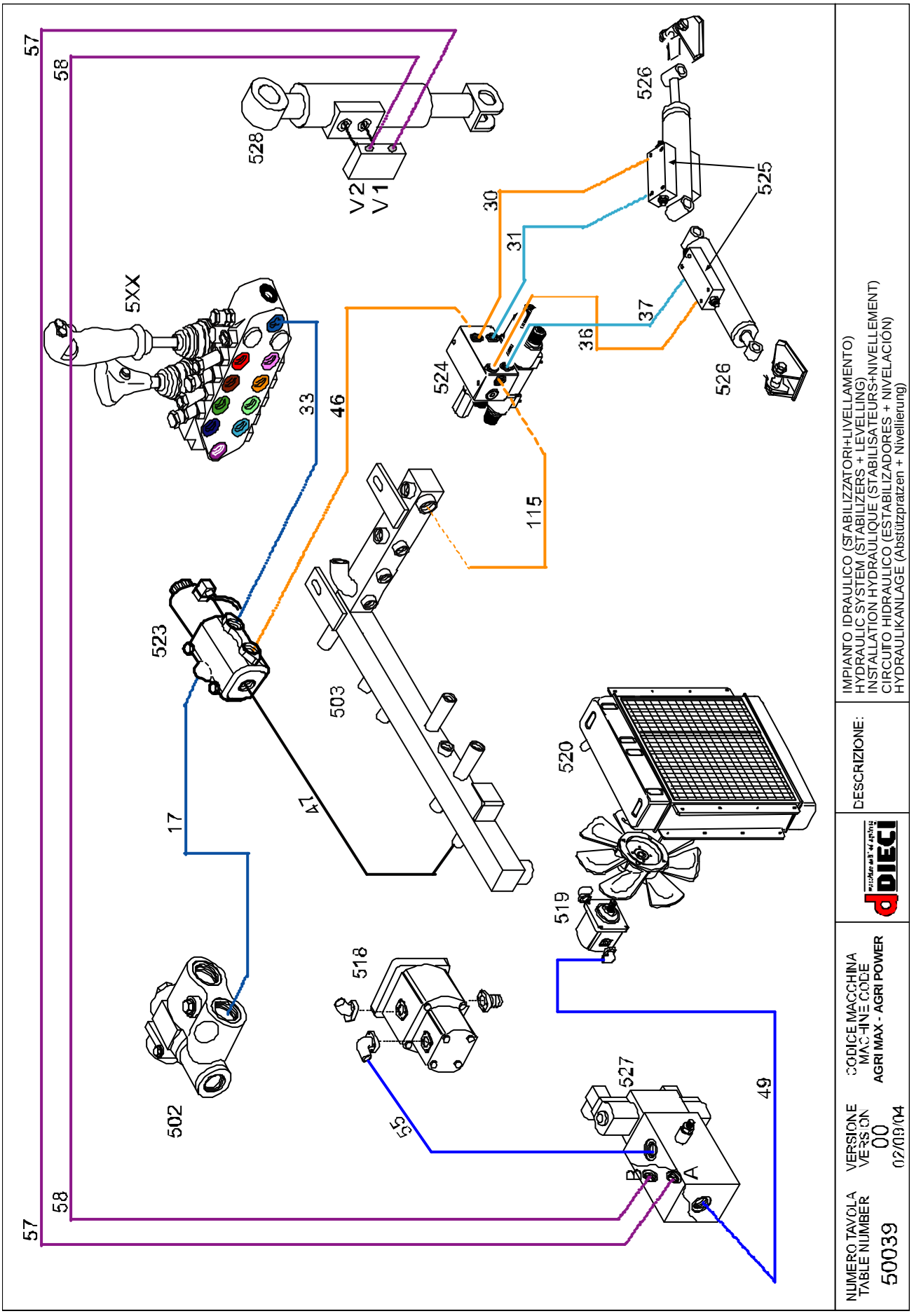


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HEAD ARM SERIE AGRI MAX - AGRI POWER

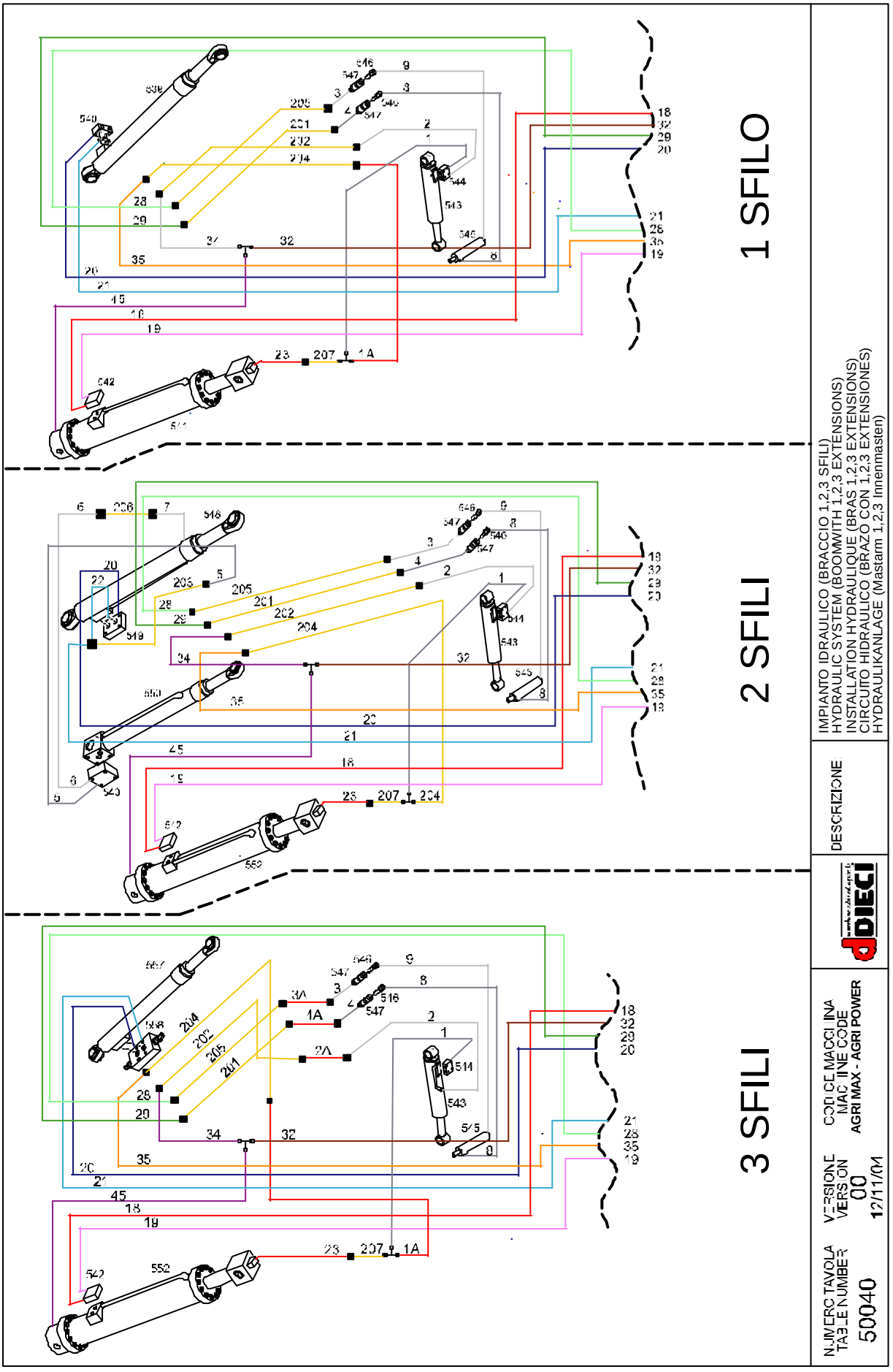


OUTRIGGERS + LEVELLING AGRI MAX - AGRI POWER SERIES

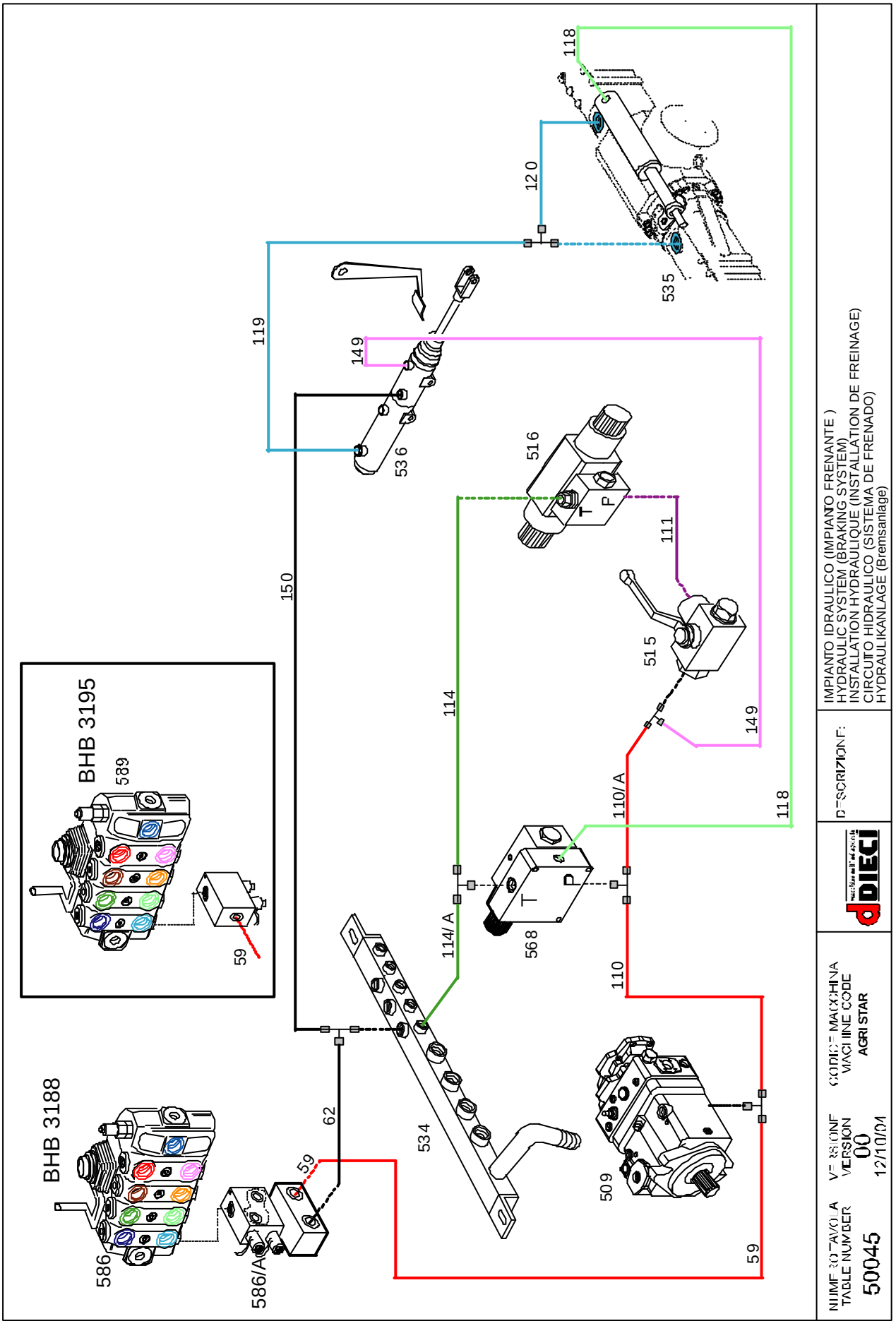


https://truckmanualshub.com/

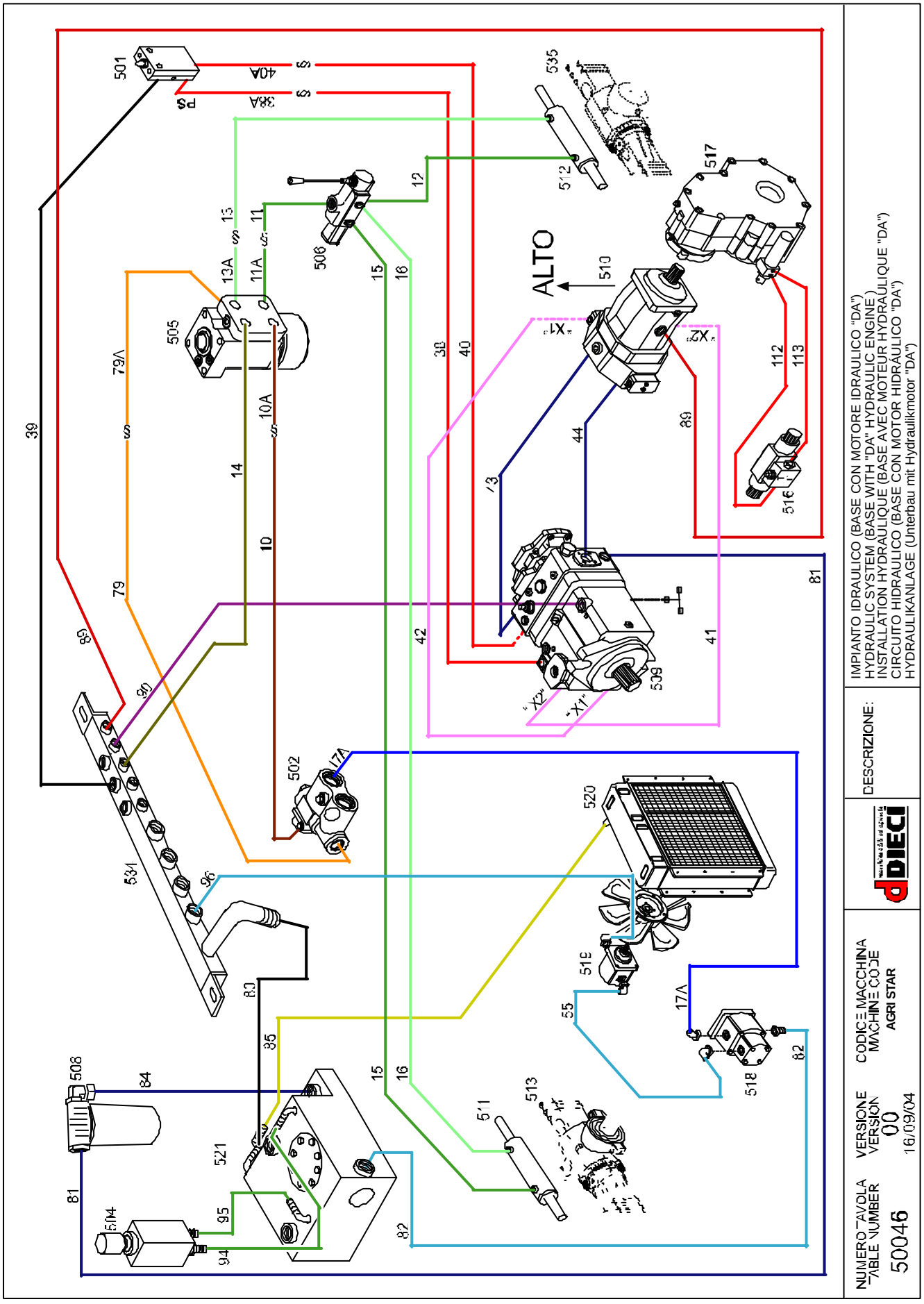
BOOM 1,2,3 EXTENSIONS AGRI MAX - AGRI POWER SERIES



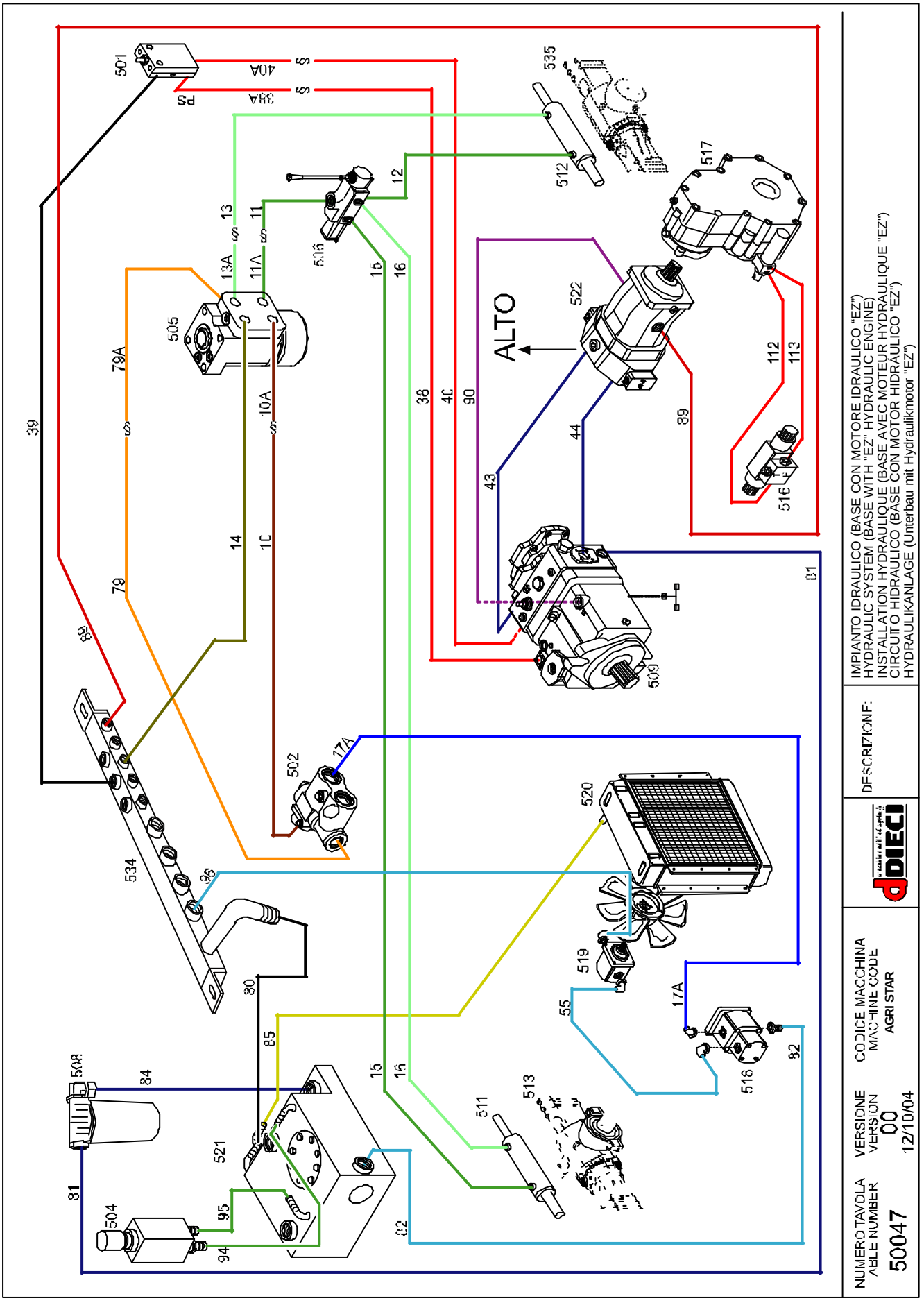
BRAKING SYSTEM AGRI STAR



BASE WITH HYDRAULIC ENGINE “DA” AGRI STAR

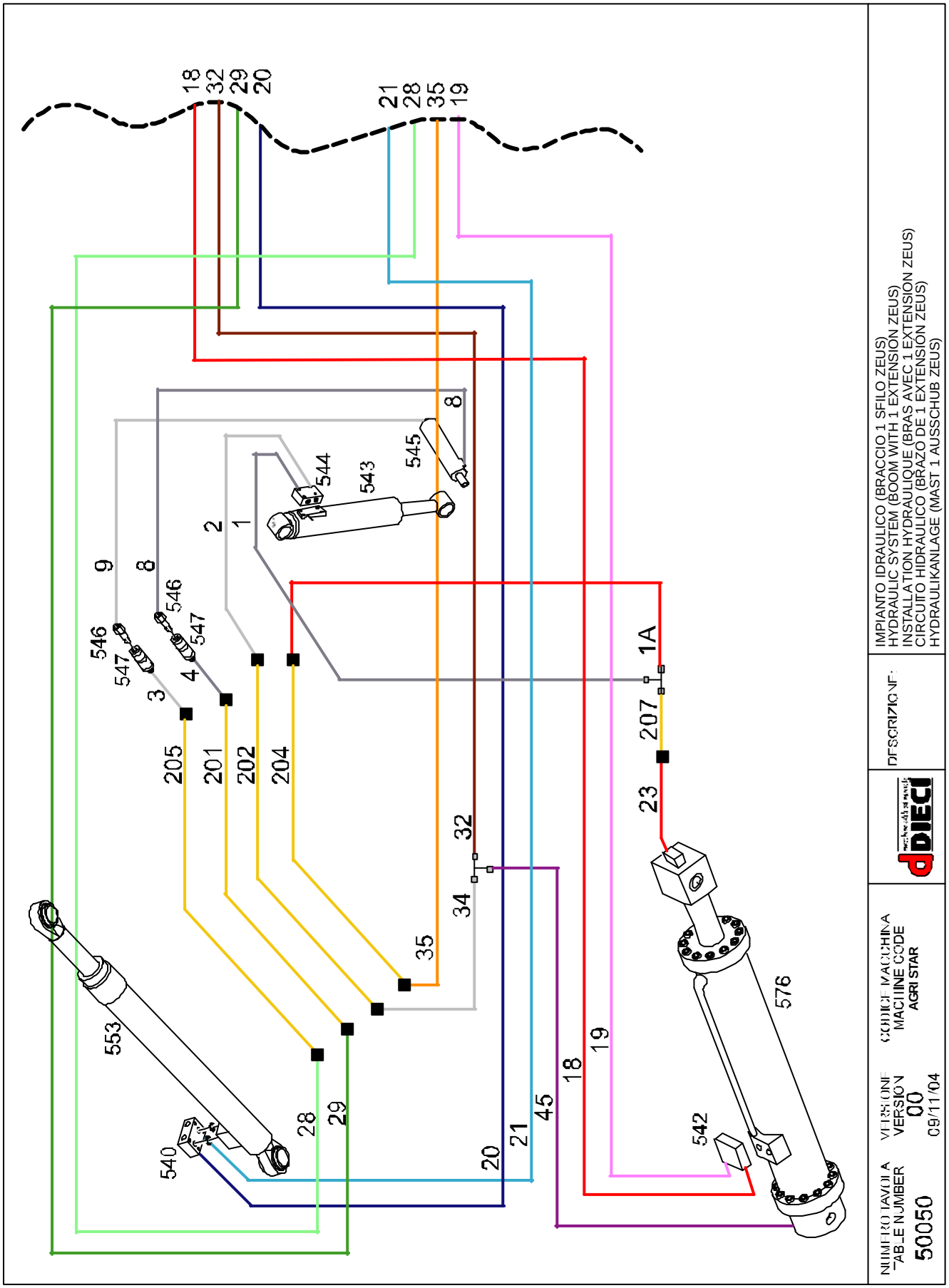


BASE WITH HYDRAULIC ENGINE “EZ" AGRI STAR

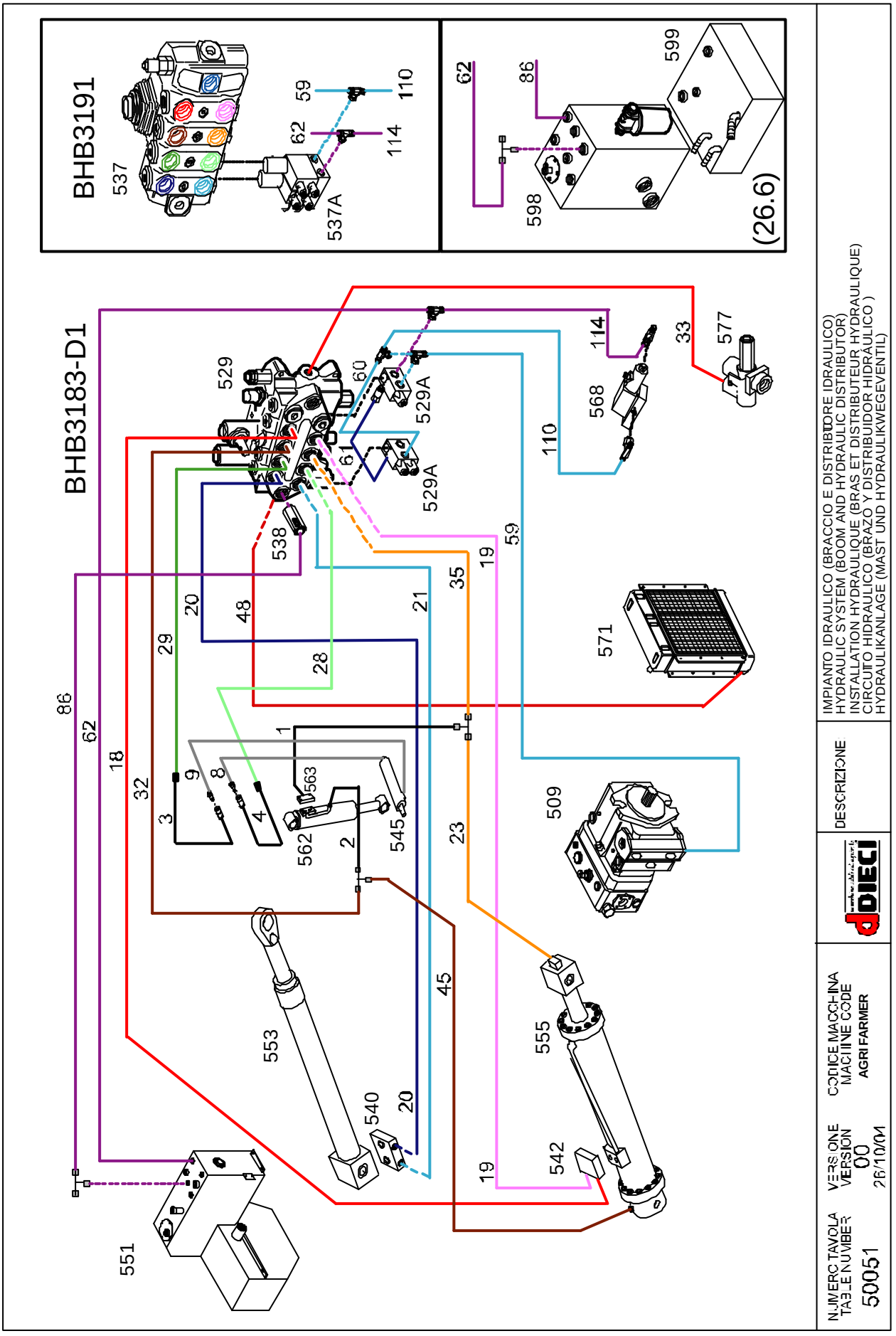


https://truckmanualshub.com/

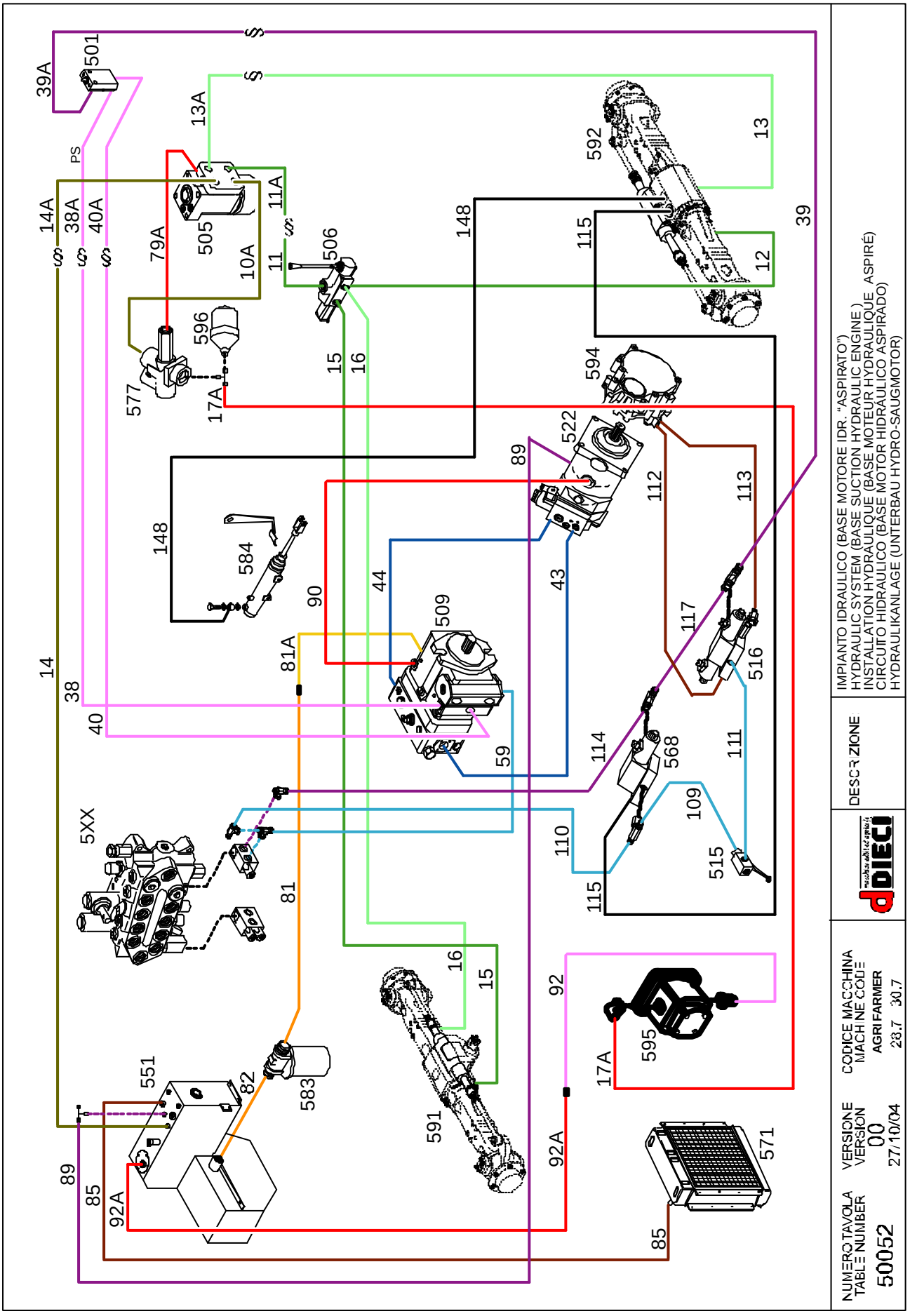
BOOM WITH 1 EXTENSION - AGRI STAR



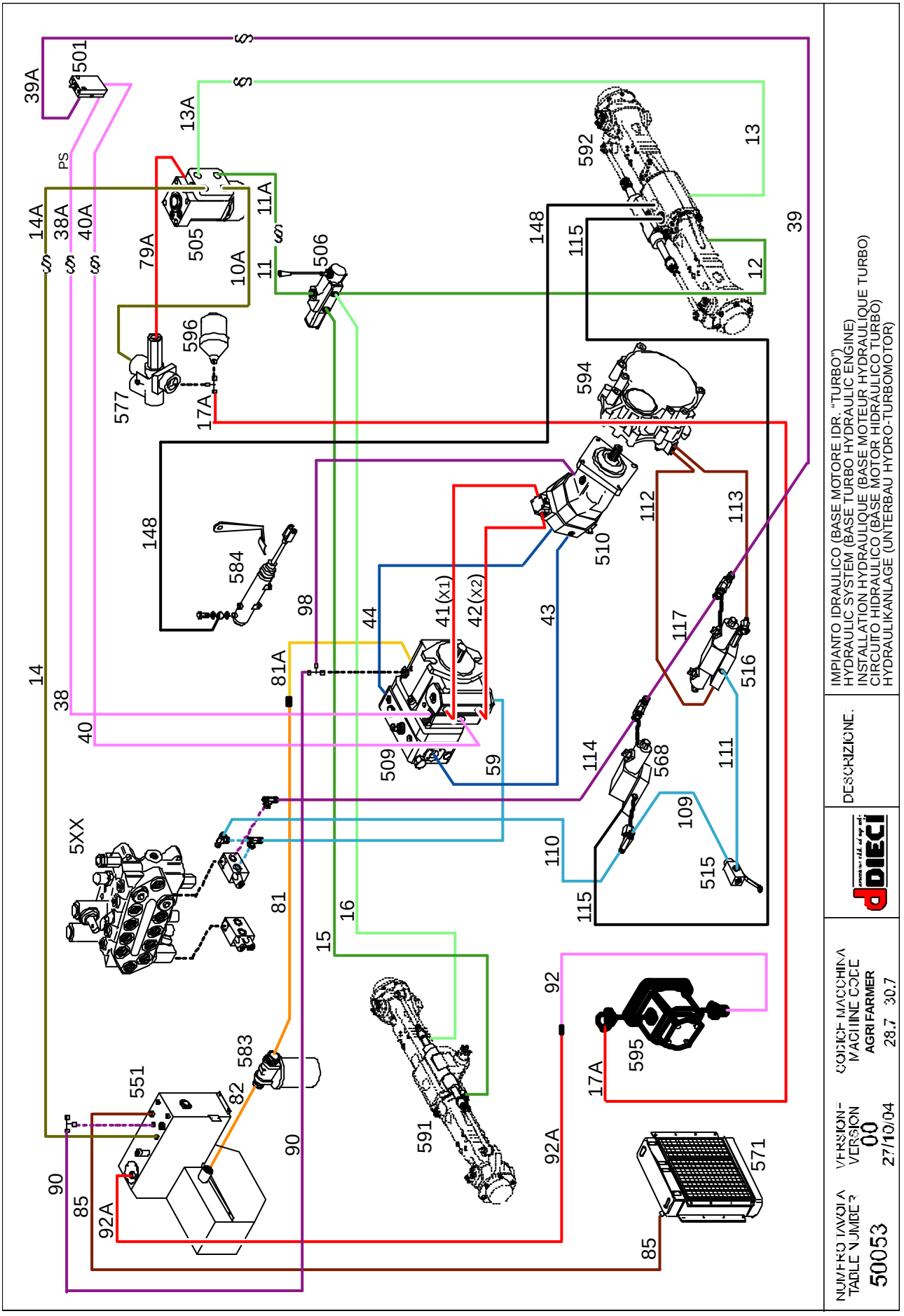
BOOM AND HYDRAULIC DISTRIBUTOR - AGRI FARMER



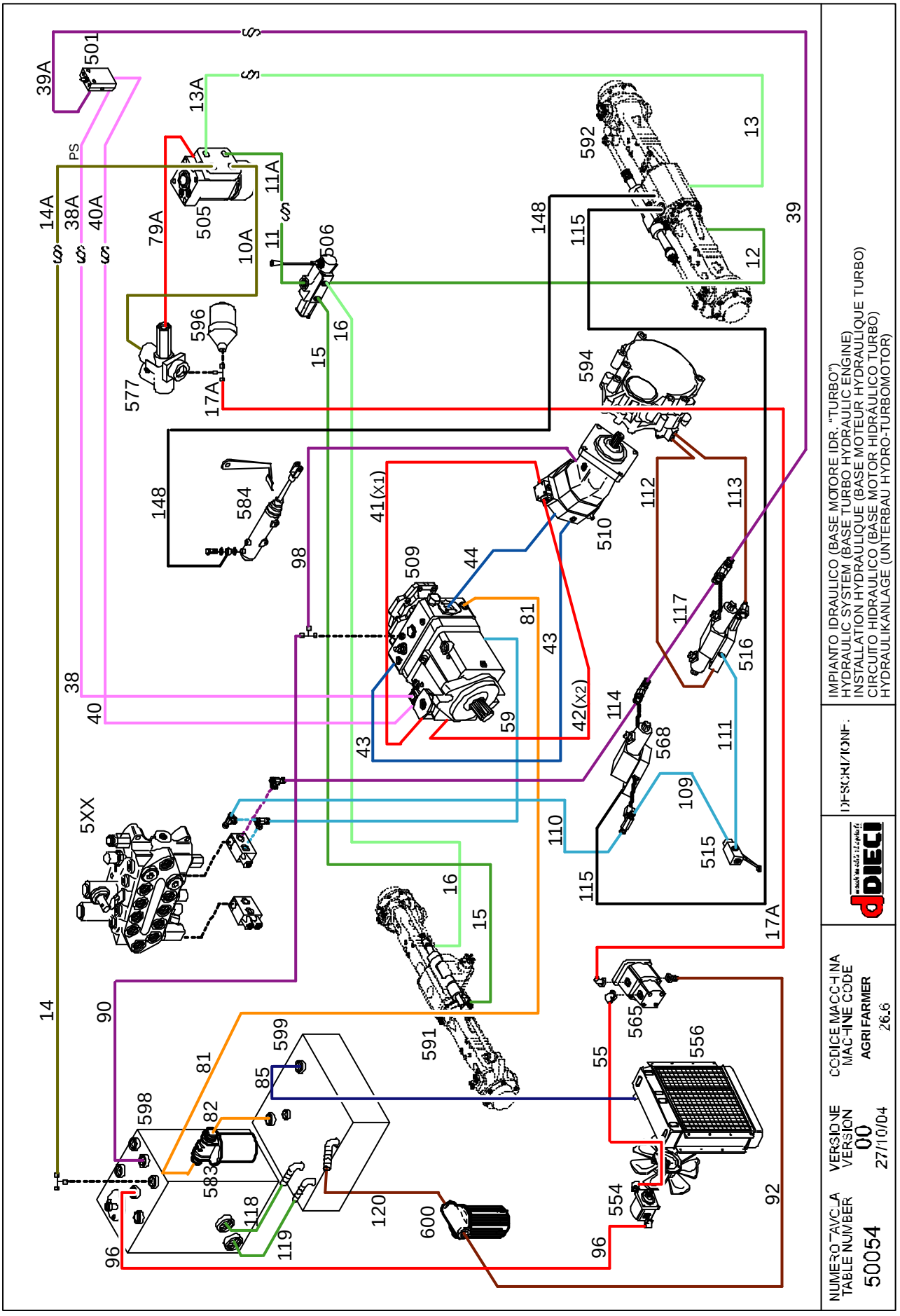
BASE WITH “ASPIRATED” HYDR. MOTOR - AGRI FARMER



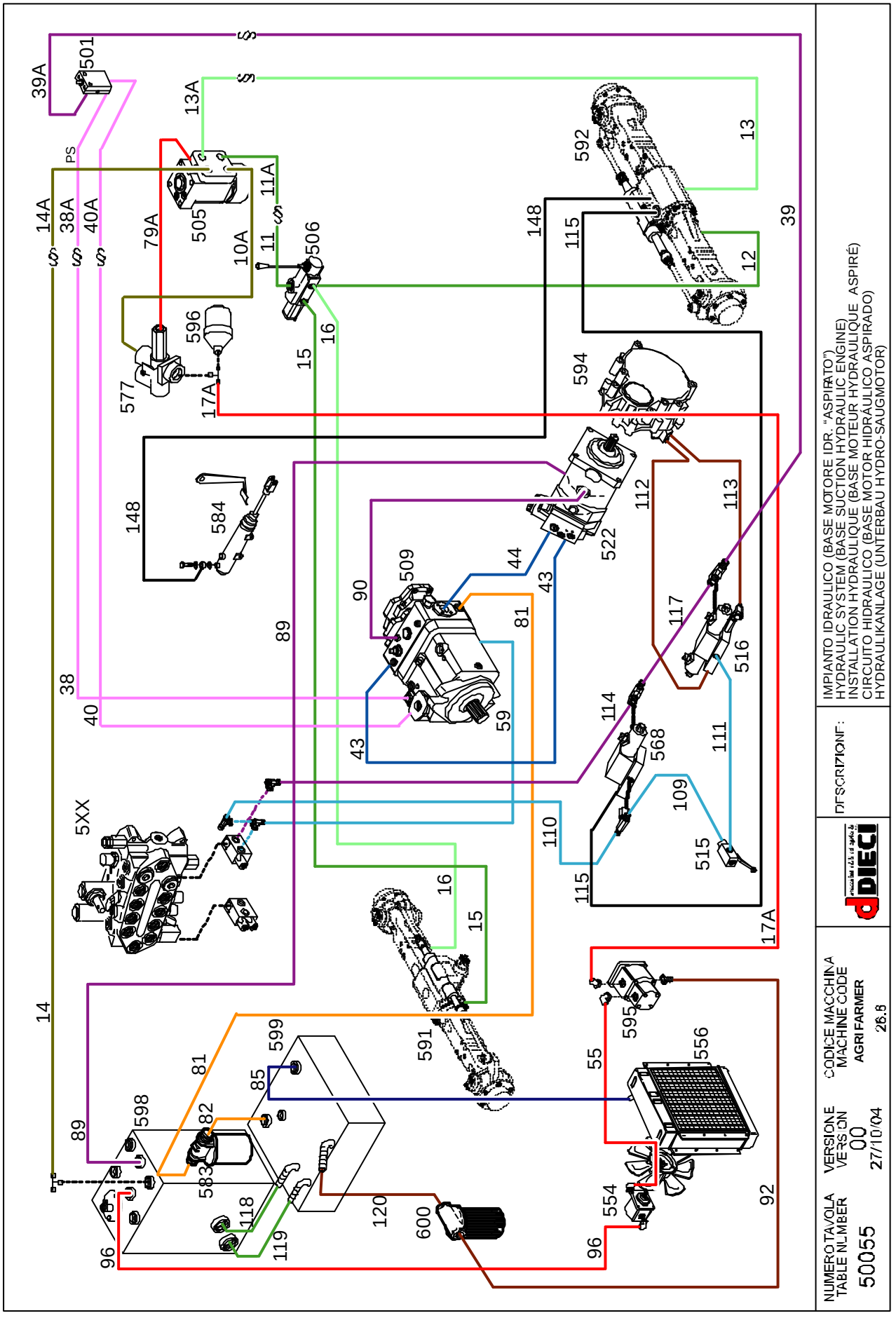
BASE WITH “TURBO” HYDR. MOTOR - AGRI FARMER



BASE WITH “TURBO” HYDR. MOTOR - AGRI FARMER



BASE WITH “ASPIRATED” HYDR. MOTOR - AGRI FARMER



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ATTACHMENTS and OPTIONALS

(use and maintenance)



⚠ - ATTENTION: - BEFORE MOUNTING THE ACCESSORIES ONTO THE VEHICLE, CHECK THAT VEHICLE/ATTACHMENTS ARE COMPATIBLE, ACCORDING TO WHAT REPORTED IN THE CERTIFICATE OF CONFORMITY ISSUED BY THE MANUFACTURER.

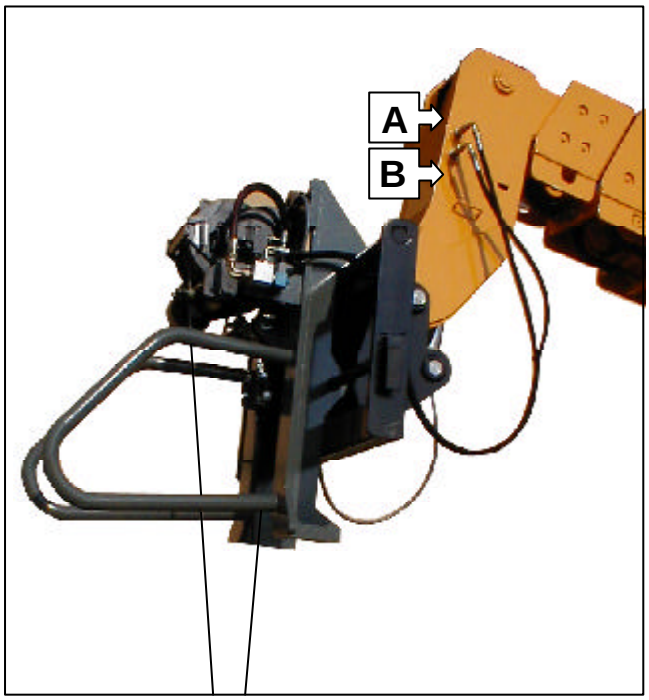
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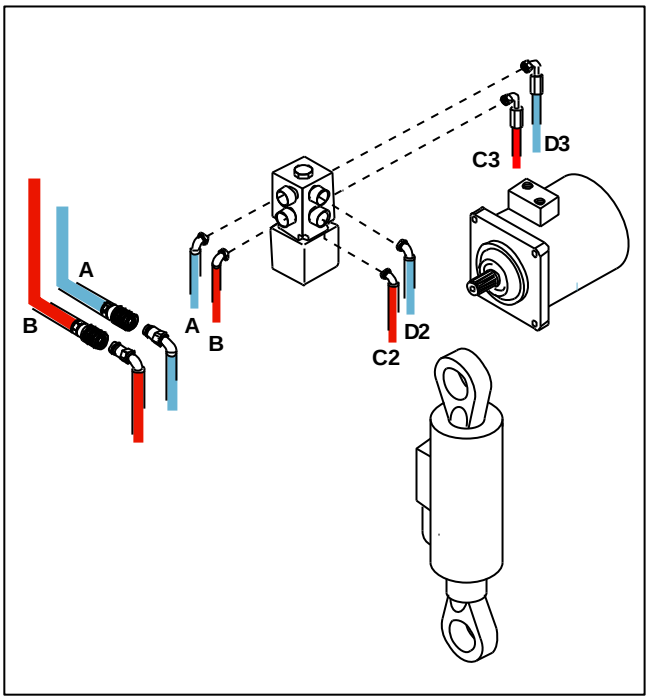
OPTIONAL PILOT LIGHTS AND SWITCHES

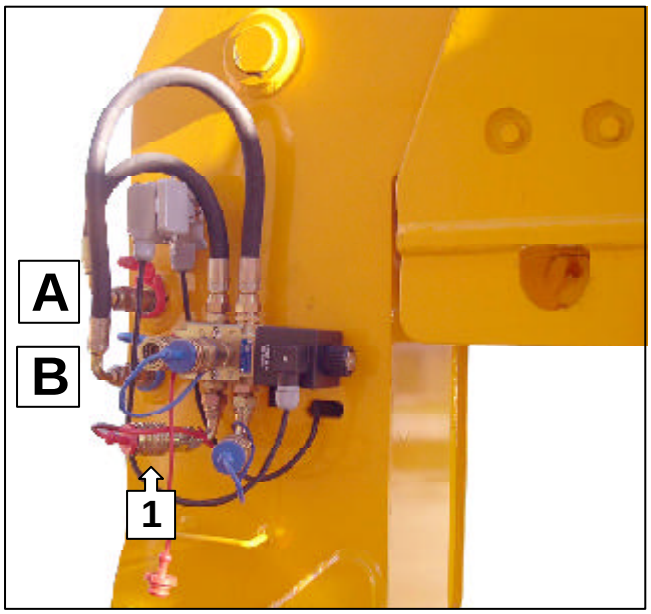
(fig.1/G - 2/G)

Arm head 2 way solenoid valve (fig.1/G Pos."1") and switch (fig.2/G Pos."2").

If the switch (fig.2/G Pos."2") is pressed, it is possible to control directly from the driver's seat the attachments which need an additional hydraulic control in order to function, such as: concrete mixers and winches.







(fig.1/G)



(fig.2/G)

- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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WORKING LIGHT SWITCH

(fig.4/G Pos.”1-2”)

Position 1: front working ligths.

Position 2: rear working lights.



(fig.4/G)

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OPTIONALS and ATTACHMENTS

USE AND MAINTENANCE OF OPTIONALS AND ATTACHMENTS FOR AGRICULTURAL VEHICLES

All agricultural attachments are attached to the back of the machine.

To drive this type of attachment, we exploit the “utility” command, after having diverted the oil flow where necessary by means of the appropriate enabling switches.

Enabling switch ‘**F**’ enables the use of the two rear hydraulic connectors, to which a double-acting cylinder can be connected. To use this actuator, simply move the lever of the utilities to the right and left, holding down the enabling switch on the lever itself. Both quick-release couplings need to be connected in this operational mode.

If the rear connectors are used to operate a tipper with single-acting lifting cylinder, the tipper is lifted using the joystick (moving the lever to the left), thus sending pressurised oil to the cylinder. This cylinder must then be discharged using button “**B**” to lower the tipper (trailer SV). Just one quick-release coupling needs to be connected in this operating mode (that positioned towards the cab side).

There are two ways of using the “power take-off”.

First and foremost, it needs to be powered hydraulically, by connecting the quick-release couplings supplied and by diverting the flow of oil to the rear utilities of the machine, by means of enabling switch ‘**F**’.

- At this stage, if you require an extended and continuous rotation movement, the power take-off is to be operated using enabling switch ‘**A**’; in this way, the control unit of the telescopic boom is no longer powered, powering the hydraulic motor of the rear power take-off instead.

- If the actuator attached to the grooved shaft is not to be continuously rotated, but on the other hand you require greater control, it is operated by means of the utilities joystick, simply by moving the lever to the left and holding down the enabling switch.

(There is only one control of the power take-off on the machine, therefore you need to specify what type of use you require when ordering your machine).

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OPTIONAL AGRICULTURAL VEHICLES

1) Socket for trailer electric lights

2) Socket for hydraulic pressure for remote control

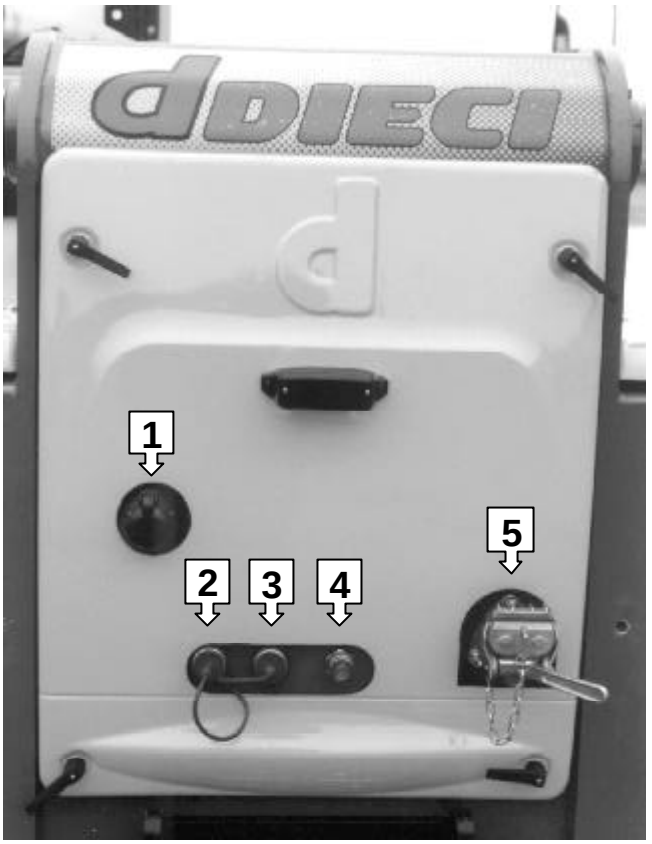
3) Socket for hydraulic pressure for remote control

4) Socket for hydraulic pressure for trailer braking

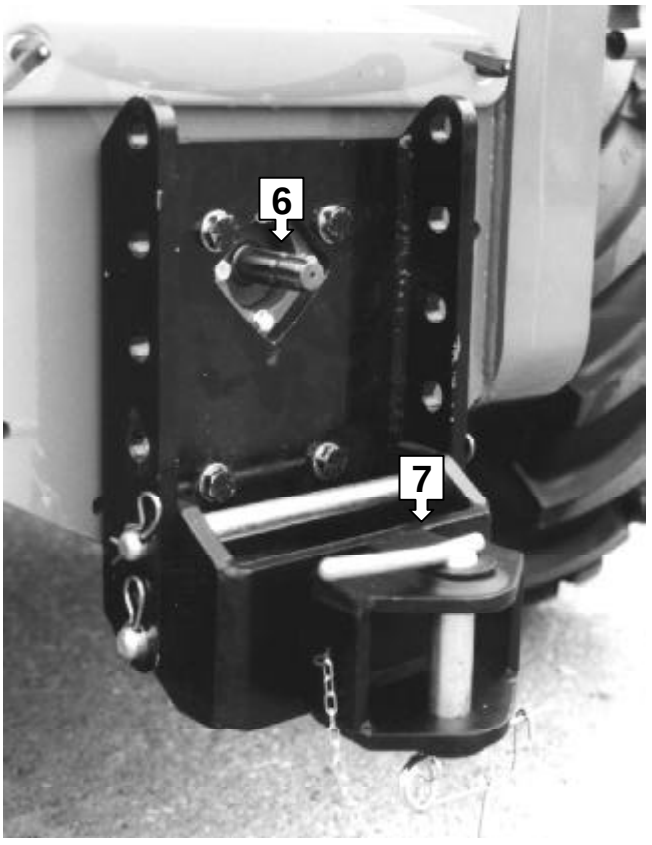
5) Socket for pneumatic pressure for trailer braking

6) Drive attachment (cardanic joint)

7) Towing deivce with rigid adjustable hook



(fig.5/G)



(fig.6/G)

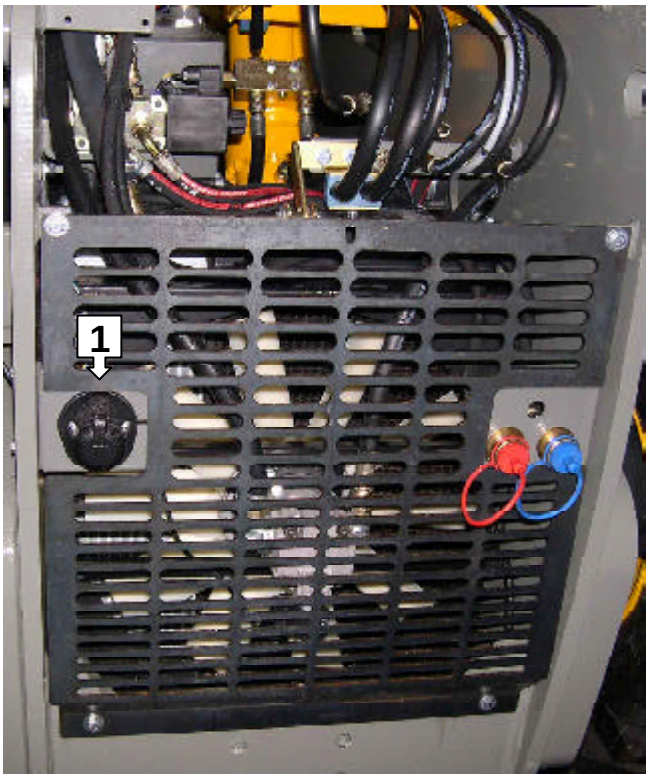
- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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TRAILER ELECTRIC LIGHT SOCKET
(fig.7/G Pos.”1”)

Trailer socket

This is a seven foot socket for trailer electric connections. Before use, make sure that the trailer plug has been correctly connected up.



(fig.7/G)
REAR VIEW AGRI FARMER 26.6

Trailer socket
(fig. 8/G)

This is supplied together with a seven foot standard type trailer socket located on the rear part of the tractor with the following connections:

1) - “L“ Rear left direction indicator

2) - “54G“ Free

3) - “31“ Negative (earth)

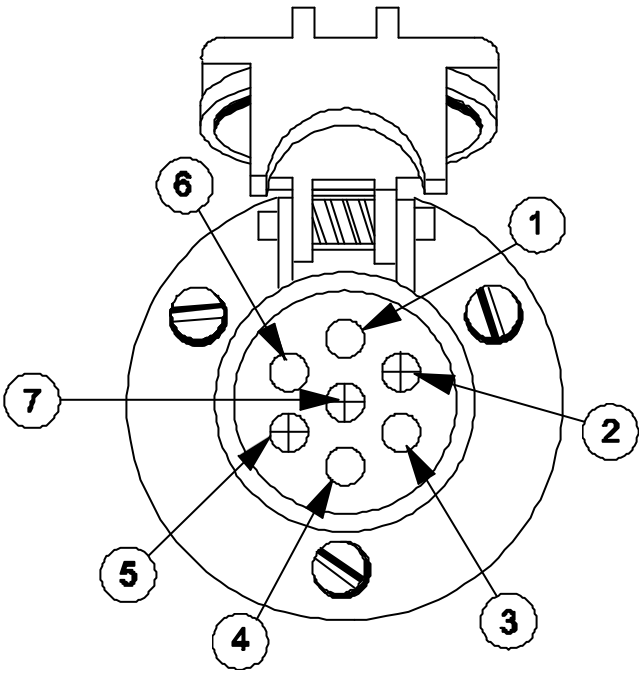
4) - “R“ Rear right direction indicator

5) - “58R“ Rear right light

6) - “54“ Right and left stop lights

7) - “58L“ Rear left light and number plate light

NOTE: the letters and numbers in the reference column are marked on the back of the plug and socket, beside each terminal.



(fig.8/G)

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HYDRAULIC PRESSURE SOCKET FOR REMOTE CONTROLS

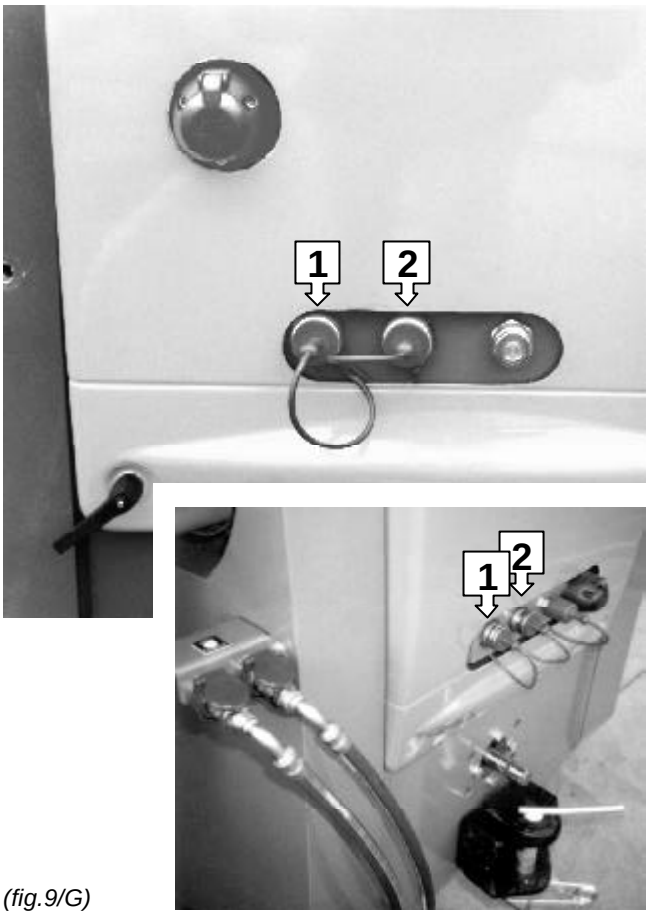
(fig.9/G Pos.”1-2”)

1) Hydraulic pressure socket

2) Hydraulic pressure socket

PRESSURE SOCKET

An auxiliary distributor which uses the same oil as the hydraulic circuit can be installed on your elevator for remote control of the double effect cylinders and in particular allow the drive attachments to function (fig.10/G Pos.”3”) after the coupling with rapid attachment. (see drive attachment on following page (fig.10/G Pos.”3”).



(fig.9/G)

ACCESSORY CONTROL LEVER

(fig.10/G)

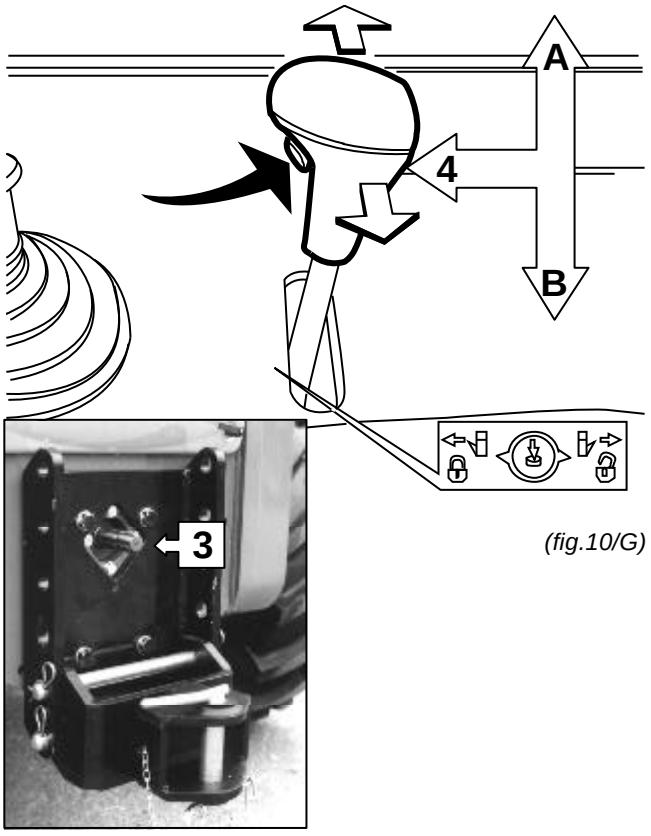
This lever (fig.10/G Pos.”4”) is located on the right hand side of the operator and serves to move the accessories mounted on the arm.

The distributor is equipped with two rapid attaching female semijoints of the type “Push&Pull” 1/2" which can be coupled with the male semijoints for pressure coupling, supplied upon demand. You can then connect up the tubes on the auxiliary cylinders using only one hand.

Push to couple them and pull to remove the female semijoint, only after:

- Stopping the engine;
- Lowering any possible attachments connected up;
- Removing pressure from the hydraulic circuit (switch off the engine and move the control lever in both directions) (fig.10/G Pos.”4”);
- Carefully clean both parts before coupling the joints.

⚠ **- WARNING**: When the female semijoints are not being used, protect them with the appropriate plastic plugs.



(fig.10/G)

⚠ - ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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POWER TAKE OFF (Optional)

(fig. 11/G)

The power take off installed on this vehicle is activated by a small size hydraulic motor with a grooved end, thus its strength if limited to 15/20 horsepower and it can be used for attachments which need a maximum force of 13 horsepower (Lifting a tippable chest, washing water pumps, air compressors etc.)

To sue the power take off, follow the instructions given below:

1) Position the switch (fig. 11/G Pos."F") light on.

2) Switch off the engine.

3) Release the pressure from the rear hydraulic sockets by moving the lever (fig. 12/G Pos."4" in "A e B").

4) Couple the rapid attachments (fig.11/G Pos."1" and 3) Couple the coloured male attachments to the female attachments of the same colour.

5) Start the engine.

6) To transmit the drive to the grooved end, held down the push button (fig. 12/G Pos."5") and move the lever (fig. 12/G Pos."4" to position "B"). (remove your finger from the switch or move the lever to a different position from the one described, and the power take off will not turn).

In these conditions, it works completely independently of the tractor movement, you can therefore:

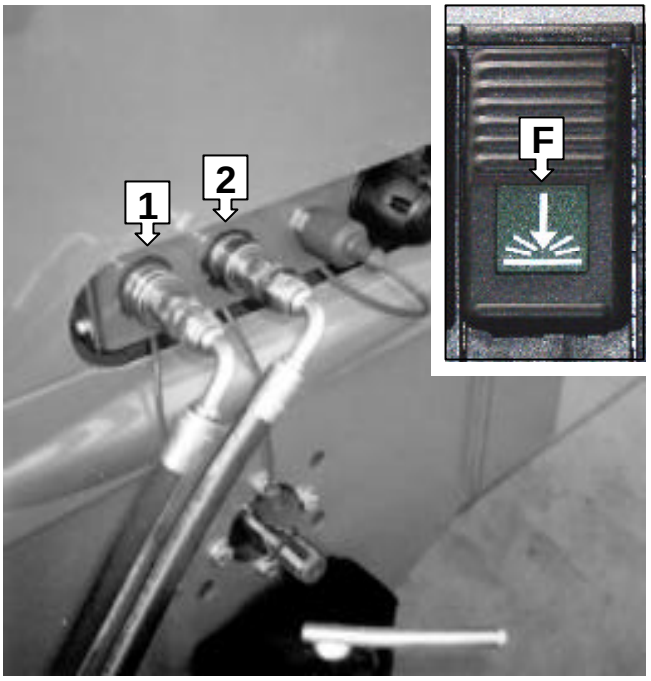
A) Stop the tractor without stopping the power take off.

B) Stop the power take off without stopping the tractor.

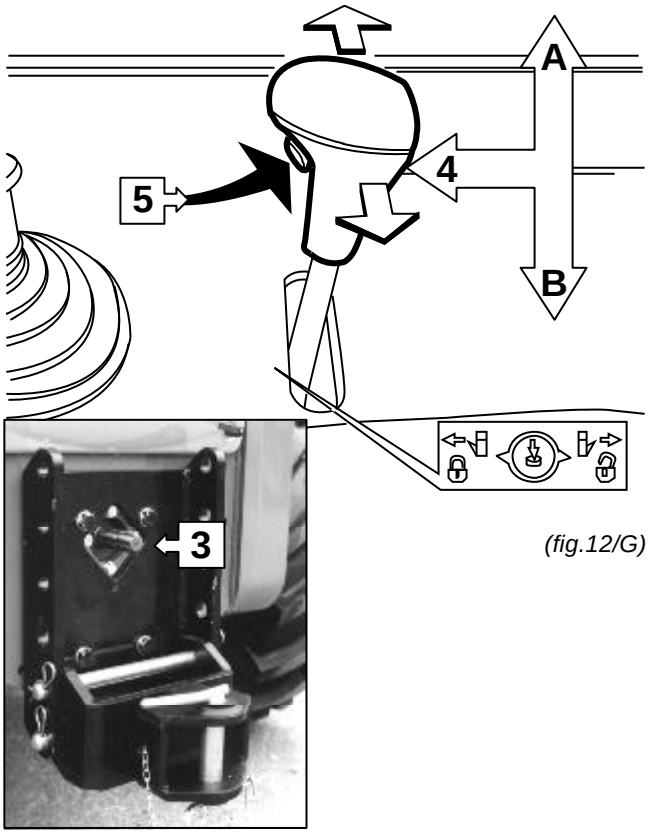
The direction of rotationof the end is clockwise looking at the tractor from the rear.

To eliminate movement of the power take off, simply release the lever.

7) To provide extended and continuous power to the grooved end, use the optional enabling switch "A" (fig. 11/G); in this way the control unit of the telescopic boom is no longer powered, consequently operating the hydraulic motor of the rear power take-off.



(fig.11/G)



(fig.12/G)

⚠ - **WARNING**:
When the power take offis not being used, it is a good idea to detach the pressure socket pipes and clean and reposiiton them in their respective positions.

⚠ - **ATTENTION - DANGER**:
Always make sure the plastic protections for the cardan shaft are in tact.

⚠ - **ATTENTION - DANGER**:
the lever (Fig. 12/G pos.4), should be kept in perfect conditIon and it is forbidden to alter its functioning in any way.

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CATALYTIC PURIFIER

USE AND MAINTENANCE

DURATION

As the catalyst is not actively involved in the chemical reaction it provokes, its life is theoretically unlimited. However, due to certain conditions such as: engine not perfectly tuned, vehicle vibrations and the abrasive effect of fumes on the support, the life of the catalyst may be shortened. In practice the life of the catalytic purifier is about **10000 working hours**.

MAINTENANCE

The catalyst is activated by the high temperature of the fumes which also prevents any particles from depositing on the honeycomb; less maintenance is, consequently, needed. We recommend cleaning the OSCA purifier every **500 working hours**. Remove the catalyst and place it in a container with hot soapy water, making sure it is completely emerged. Leave it to soak for 5 hours, then wait for it dry completely (a gentle jet of compressed air could possibly be used to speed up drying) and remount.



(fig.13/G)

 - ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual)carefully for the safety of all personnel and of your vehicle.

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WATER DRIVEN PURIFIER

USE AND MAINTENANCE

The water driven purifier is manufactured entirely in stainless steel with titanium and is resistant to high temperatures and to corrosive sulphurous compounds which are present in the exhaust fumes. It consists of a horizontal cylindrical body (diameter varies according to engine size) which makes up the water tank, two fixing brackets and a cylindrical tower located in the upper part of the water tank equipped with a separator. The fumes are conveyed through an entry tube to the interior part of the purifier and are passed through the water in fine bubbles. The carbonaceous particles become heavier upon contact with the water and fall to the bottom of the water tank. The fumes are then directed towards the separator which recovers the carbonaceous particles which have not fused with the water. The white smoke emitted from the exhaust is simply water vapour.



(fig.14/G)

MAINTENANCE

Maintenance of the water driven purifier is extremely important and the water must absolutely be changed every **8 working hours**. The tank must be emptied through the spherical drain valve and clean water added through the loading and level cock. You can see how effective the purifier is from the black sludge which comes out when changing the water. The purifier should be cleaned every **300 working hours**: drain off the water and clean the inside for a few minutes with a pressurised jet.
DIECI also provides the additive TAM which, added to the water at every change, helps to keep the purifier clean.
The additive TAM also improves the performance of the purifier: it neutralises sulphuric and sulphurous acids.

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AIR CONDITIONING

HOW THE CIRCUIT WORKS

1. Make sure all the doors and windows are closed.
2. Make sure the heating is switched off.
3. With the engine switched on, switch on the air conditioning (fig.15/G Pos."P") and the fan.
4. Open and adjust the flaps (fig.15/G - 16/G Pos."1") to obtain the best cooling according to the outside temperature. The lower fan speeds will produce colder air.

If the air conditioning does not work properly, immediately check the condensor located in front of the radiator to check if it is clogged.

⚠ - **IMPORTANT**:
Switch the air conditioning on (for one or two minutes) several times a year, even in colder seasons (engine at a slow minimum). By doing this the moveable parts are lubricated, for example the compressor and the circuit in general.



(fig.15/G)



(fig.16/G)

MAINTENANCE

Air conditioning for the Condensor air

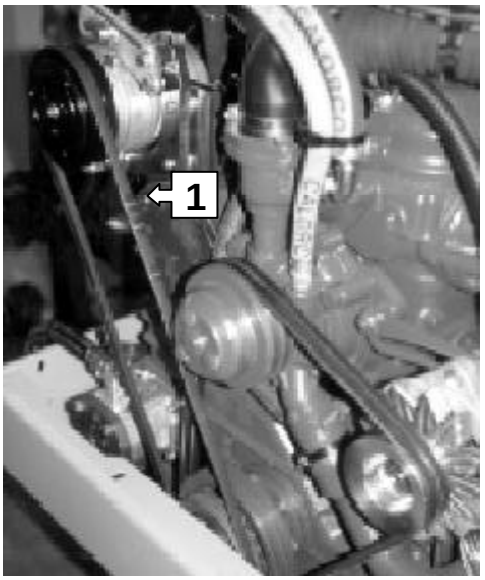
Clean the variable condensor.
If the circuit fails to work properly, it might be necessary , due to working conditions, to open the engine bonnet and blow away any dust, etc from the condensor. Proceed as follows.

⚠ - **ATTENTION - CAUTION**:
DO NOT loosen any of the flexible pipes on the air conditioning circuit in order to reach the condensor as contact between the skin and the cooling liquid can cause freezing.

1. Open the engine bonnet.
2. Unscrew the screws which fix the condensor to the radiator.
3. Move the condensor slightly to one side, taking care not to damage the fins.
4. Clean the condensor by blowing compressed air at a pressure of maximum 7 bar, through the radiator mass, from the opposite end to the normal air flow.
5. After cleaning, remount the condensor.

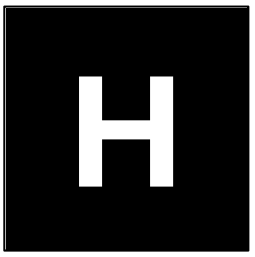
Tighten the compressor belts

Check the compressor belt (fig.17/G Pos."1") is sufficiently taut every 500 hours.



(fig.17/G)

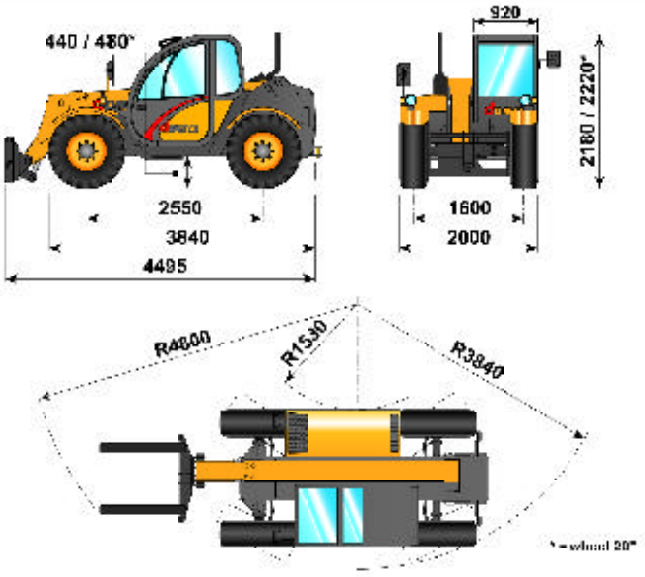
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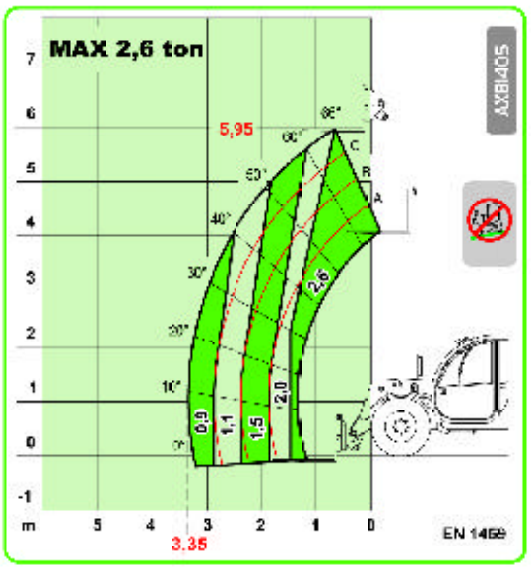


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Agri Farmer 26.6





PERFORMANCES

Maximum capacity: ..... 2.600 kg
Capacity at maximum height on tyres: ..... 2.600 kg
Capacity at maximum boom extension on tyres: ..... 900 kg
Maximum lifting height on tyres: ..... 5,95 m
Maximum horizontal boom extension: ..... 3,35 m
Boom extension at maximum height: ..... 0,66 m
Fork tilting angle: ..... 134°
Tearing force: ..... 5.700 daN
Towing force: ..... 7.300 daN
Maximum allowable slope: ..... 40 %
Total empty weight: ..... 5.600 kg
Max speed: ..... 35 km/h

TRANSMISSION

Transmission: ..... hydrostatic with variable delivery pump
Hydraulic engine: ..... with automatic adjustment
Reversing gear: ..... electro - hydraulic
Inching pedal for controled forward movement.
Servocontrolled 2 speed gearbox.

HYDRAULIC SYSTEM

Gear pump with capacity at max speed: 86 l/1
Max working pressure: ..... 230 bar
Control valve with joystick: ..... 3 in l

DIFFERENTIAL AXLES

Steering axles: ..... 2, with planetary reduction gears
Type of steering: ..... 4 wheels/transversal/2 wheels
Front axle: ..... rigid
Rear axle: ..... oscillating
Service brake: ..... oil bath on the front axle
Negative parking brake

OPTIONAL AND ACCESSORIES

Optional and Accessories: ..... see the reevant catalogue

ENGINE

IVECO NEF F4GE0454A - TC - 74 kW ENGINE
Maximum power: ..... 74 kW (102 hp) at 2300 rpm
Operating principle: ..... four stroke, diesel engine
Cylinder number and layout: ..... 4, vertical in line
Displacement: ..... 4485 cm³ - Turbo compressor
Cooling system: ..... liquid

REFUELLING (litre)

Hydraulic tank: 130
Fuel tank: 80

STANDARD DEVICES

Anti tipping device with block for hazardous movements.
Hydraulic socket for possible accessories on boom head
Closed sourcepiece ROPS - FOPS approved driver's cab, with heating.
Self-locking differential on front axle (limited slip 45%).

TYRES

Tyres: ..... 12.5x18"
Alternative: ..... 16/70x20"

TOWING CAPACITY (on request)

Unbraked trailer: ..... 3 ton
Mechanical braking: ..... 5 ton
Hydraulic/pneumatic brake: ..... 17 ton
20" Tyres included

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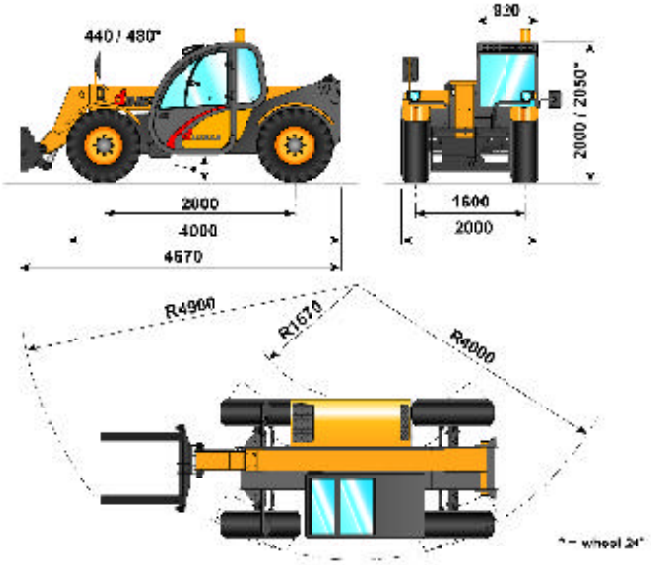
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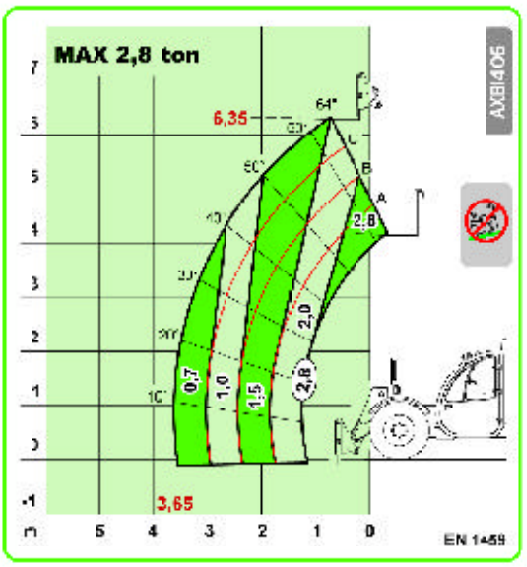
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Agri Farmer 28.7





PERFORMANCES

Maximum capacity: 2.000 kg
Capacity at maximum height on tyres: 2.000 kg
Capacity at maximum boom extension on tyres: 700 kg
Maximum lifting height on tyres: 6,35 m
Maximum horizontal boom extension: 3,65 m
Boom extension at maximum height: 0,80 m
Fork tilting angle: 30°
Tearing force: 5.700 daN
Towing force: 7.300 daN
Maximum allowable slope: 40 %
Total empty weight: 6.000 kg
Max speed: 35 km/h

TRANSMISSION

Transmission: hydrostatic with variable delivery pump
Hydraulic engine: with automatic adjustment
Reversing gear: electro - hydraulic
Inching pedal for controlled forward movement.
Servocontrolled 2 speed gearbox.

HYDRAULIC SYSTEM

Gear pump with capacity at max speed: 86 l/1'
Max working pressure: 230 bar
Control valve with joystick: 3 in 1

DIFFERENTIAL AXLES

Steering axles: 2 with planetary reduction gears
Type of steering: 4 wheels/transversal2 wheels
Front axle: rigid
Rear axle: oscillating
Service brake: oil bath on the front axle
Negative parking brake.

OPTIONAL AND ACCESSORIES

Optional and Accessories: see the relevant catalogue

ENGINE

IVECO NEF F4GE0454A - TC - 74 kW ENGINE
Maximum power: 74 kW (102 hp) at 2300 rpm
Operating principle: four-stroke, diesel engine
Cylinder number and layout: 4, vertical in line
Displacement: 4485 cm³ - Turbo compressor
Cooling system: liquid

REFUELLING (litre)

Hydraulic tank: 130
Fuel tank: 80

STANDARD DEVICES

Anti-tipping device with block for hazardous movements.
Hydraulic socket for possible accessories on boom head.
Closed soundproof ROPS - FOPS approved driver's cab with heating.
Self-locking differential on front axle (limited slip 45%).

TYRES

Tyres: 12.5x18"
Alternative: 10/70x20"

TOWING CAPACITY (on request)

Unbraked trailer: 3 ton
Mechanical braking: 5 ton
Hydraulic/pneumatic brake: 17 ton
20" Tyres included

The information contained in this publication, namely and colour, the models described may be modified, without notice, by the manufacturer. Coverage and photographs may refer to optional or particular equipment for other countries. For any further information, please contact DIECI or nearest dealer at the address given below.

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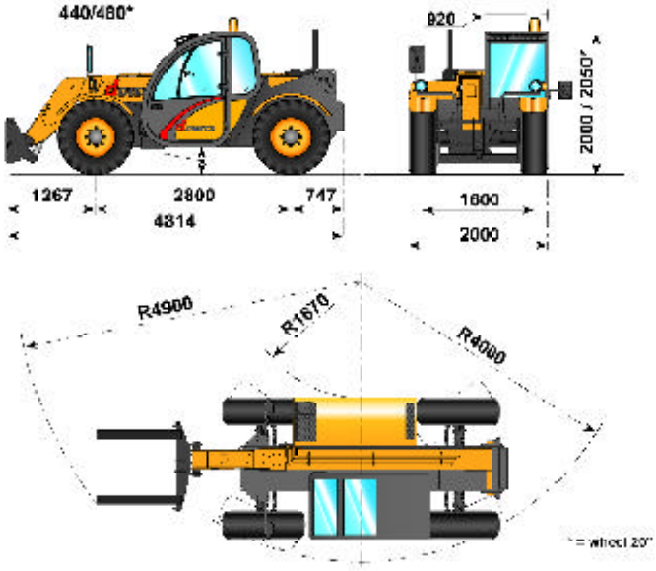
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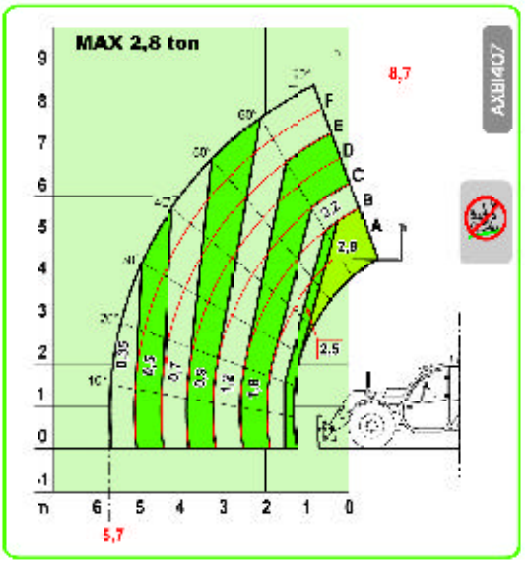
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PERFORMANCES

Maximum capacity	2 600 kg
Capacity at maximum height on tyres:	1 200 kg
Maximum capacity boom on tyres:	350 kg
Maximum lifting height on tyres:	8,70 m
Maximum horizontal boom extension:	5,70 m
Boom at maximum height	0,80 m
Angle of fork arching:	30°
Tearing force:	5.700 daN
Towing force	7.300 daN
Maximum slope for overtaking:	40 %
Total empty weight:	6.150 kg
Max speed:	35 km/h

TRANSMISSION

Transmission: hydrostatic with variable capacity pump
Hydraulic engine: with automatic change
Gear reversing: electro - hydraulic
rching pedal for controlled forward movement.
2 speed power steering

HYDRAULIC CIRCUIT

Gear pump with capacity at speed:	88 l/1'
Max working pressure:	230 bar
Distributor controls with joystick:	3 in 1

DIFFERENTIAL AXLES

Steering axles:	2, with epicycloidal reduction gears
Type of steering	4 wheels / transvereal / 2 wheels
Front axle:	rigid
Rear axle	oscillating
Service braking	oil bath on the front axle
Parking brake	actuated negatively

OPTIONAL AND ACCESSORIES

Optional and Accessories: see the relevant catalogue

ENGINE

ENGINE IVECO NEF F4GE0454A - TC - 74 kW

Maximum power:	74 kW (102 hp) at 2300 rpm
Operating:	four-stroke engine diesel
Cylinders number and layout:	4, vertical in line
Displacement:	4455 cm³ - Turbo compressor
Cooling system:	liquid

REFUELLING (litre)

Hydraulic circuit:	130
Fuel tank	80

STANDARD DEVICES

Anti tipping device with back for hazardous movements
Closed soundproof homologated cab ROPS - FOPS with heating
Hydraulic socket for possible accessories on boom head
Front self-locking axle (limited slip 45%).

TYRES

Tyres:	12.5x18"
Alternative:	16/70x20"

TOWING CAPACITY (on request)

Unbraked trailer:	3 ton
Mechanical braking	5 ton
Hydraulic/pneumatic brake:	17 ton

20" tyres included

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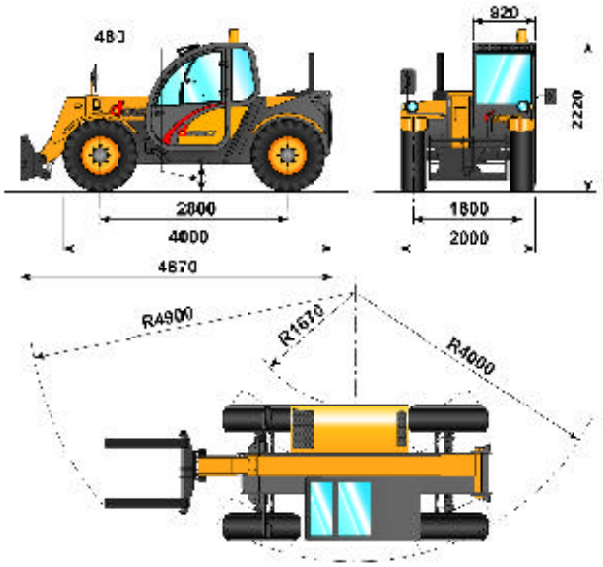
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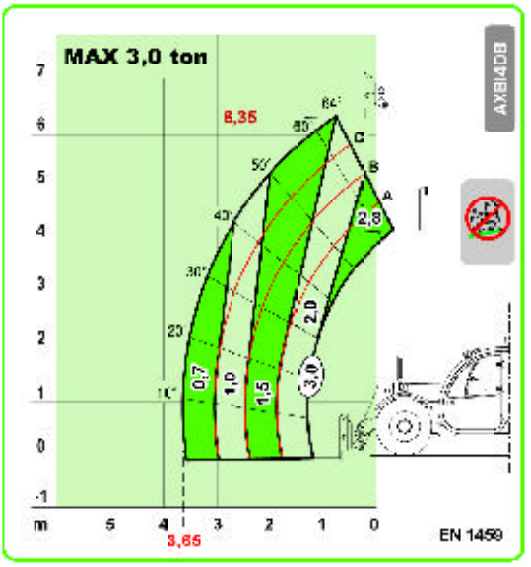
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Agri Farmer 30.7





PERFORMANCES

Max mum capacity: ..... 3.000 kg
Capacity at maximum height on tyres ..... 2.000 kg
Capacity at maximum boom extension on tyres:..... 700 kg
Max mum lifting height on tyres:.. ..... 6,35 m
Max mum horizontal boom extension:..... 3,65 m
Boom extension at maximum height ..... 0,80 m
Fork tilting angle: ..... 130°
Tearing force:.. ..... 5.700 daN
Towing force:.. ..... 7.300 daN
Max mum allowable slope:..... 40 %
Tota empty weight: ..... 3.000 kg
Max speed: ..... 35 km/h

TRANSMISSION

Transmission . ..... hydrostatic with variab e delivery pump
Hydraul c engine:... ..... with automatic adjustment
Reversing gear: ..... electric - hydraulic
Inch ng peda for controlled forward movement.
Servocontrol ed 2 speed gearbox.

HYDRAULIC SYSTEM

Gear pump with capacity at max speed: ..... 55 l/'
Max working pressure:.. ..... 230 ba
Control valve with joystick..... ..... 3 in 1

DIFFERENTIAL AXLES

Steering axles . ... 2, with planetary reduction gears
Type of steering: .... 4 wheels / transversal / 2 wheels
Front axle:..... ..... rig d
Rear axle:.. ..... oscillating
Service brake.. .... oil bath on the front axle
Negative parking brake

OPTIONAL AND ACCESSORIES

Optional and Accessories:... .... see the relevant catalogue

ENGINE

IVECO NEF F4GE0454A TC 74 kW ENGINE
Maximum power:..... .... 74 kW (102 hp) at 2300 rpm
Operating principle:.. ..... four-stroke, diesel engine
Cylinder number and layout:.. .... 4, vertical in line
Displacement:..... ..... 4485 cm³ - Turbo compressor
Cooling system:..... ..... liquid

REFUELLING (litre)

Hydraulic tank:..... 130
Fuel tank:... 60

STANDARD DEVICES

Anti-tipping device with b ock for hazardous movements.
Hydraulic socket for possible accessories on boom head
Closed soundproof ROPS - FOPS approved driver's cab with heating.
Self-locking d fferential on front axle (limited slip 45%).

TYRES

Tyres: ..... 15x70x20"

TOWING CAPACITY (on request)

Unbraked trailer:..... .... 3 ton
Mechanical braking:... .... 5 ton
Hydraulic/pneumatic brake:..... .... 17 ton

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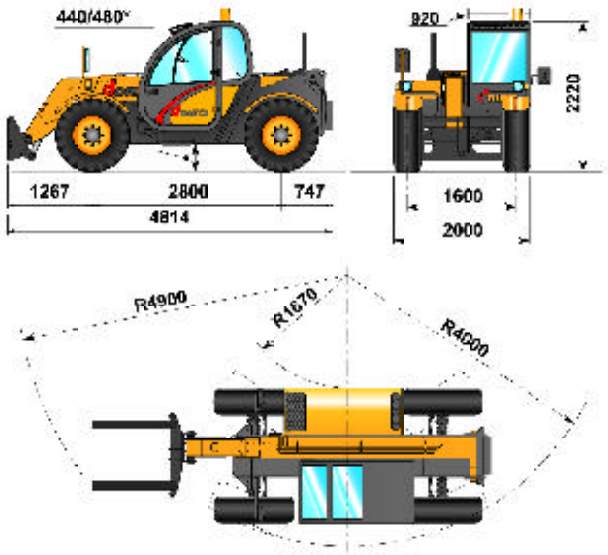
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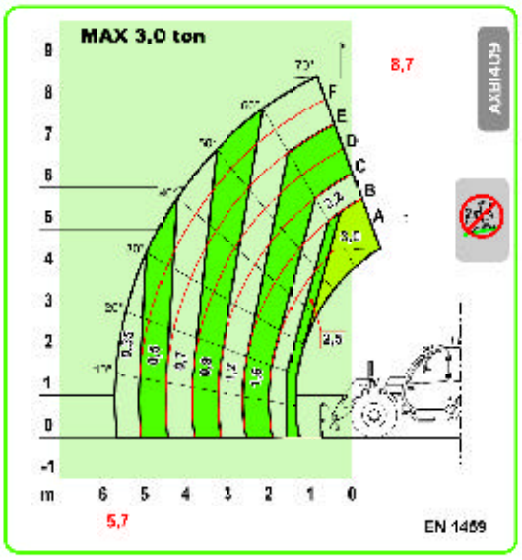
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Agri Farmer 30.9





PERFORMANCES

Maximum capacity:	3.000 kg
Capacity at maximum height on tyres:	1.200 kg
Maximum capacity boom on tyres:	350 kg
Maximum lifting height on tyres:	8.70 m
Maximum horizontal boom extension:	5.70 m
Boom at maximum height:	0.80 m
Angle of fork arching:	130°
Tearing force:	5.700 daN
Towing force:	7.300 daN
Maximum slope for overtaking:	40 %
Total empty weight:	5.150 kg
Max speed	35 km/h

TRANSMISSION

Transmission: hydrostatic with variable capacity pump
Hydraulic engine: with automatic change
Gear reversing: electro - hydraulic
Inching pedal for controlled forward movement
2 speed power steering

HYDRAULIC CIRCUIT

Gear pump with capacity at speed:	60 l/1'
Max working pressure:	230 bar
Distributor controls with joystick	3 in 1

DIFFERENTIAL AXLES

Steering axles:	2, with epicycloidal reduction gears
Type of steering:	4 wheels / transversal / 2 wheels
Front axle	rigid
Rear axle:	oscillating
Service braking:	oil bath on the front axe
Parking brake:	actuated negatively

OPTIONAL AND ACCESSORIES

Optional and Accessories: see the relevant catalogue

ENGINE

ENGINE IVECO NEF F4GE0454A - TC - 74 kW

Maximum power:	74 KW (102 hp) at 2300 rpm
Operating:	four-stroke engine diesel
Cylinders number and layout:	4, vertical in line
Displacement:	4485 cm³ - Turbo compressor
Cooling system:	liquid

REFUELLING (litre)

Hydraulic circuit:	130
Fuel tank:	60

STANDARD DEVICES

Anti-tipping device with block for hazardous movements.
Closed soundproof homologated cab ROPS - FOPS, with heating
Hydraulic socket for possible accessories on boom head
Front self-locking axle (limited slip 40%).

TYRES

Tyres: 16/70x20"

TOWING CAPACITY (on request)

Unbraked trailer:	3 ton
Mechanical braking	5 ton
Hydraulic/pneumatic brake	17 ton

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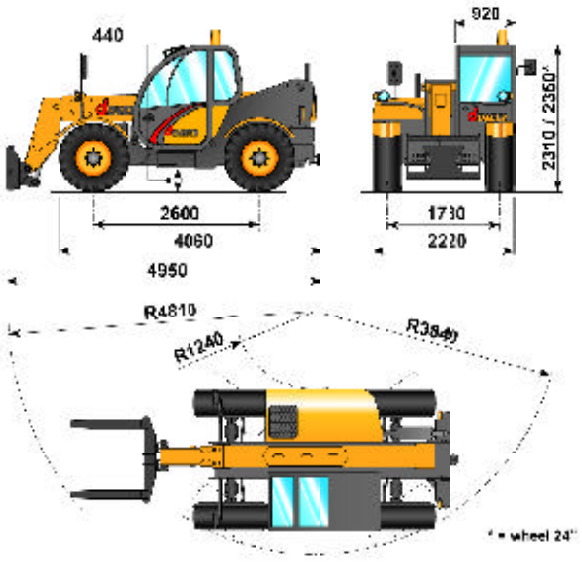
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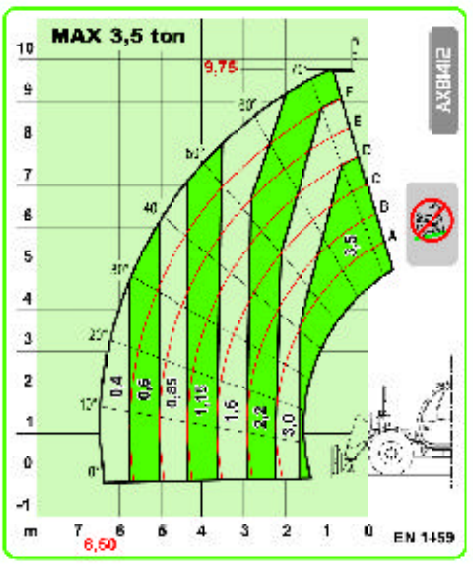
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Agri Star 35.10





PERFORMANCES

Maximum capacity:	3.500 kg
Capacity at maximum height on tyres:	2.200 kg
Capacity at maximum boom extension on tyres:	400 kg
Maximum lifting height on tyres:	9,75 m
Maximum horizontal boom extension:	6,50 m
Boom extension at maximum height:	0,84 m
Fork tilting angle:	130°
Tearing force:	5.700 daN
Towing force:	7.300 daN
Maximum allowable slope:	40 %
Total empty weight:	7.600 kg
Max speed:	30 km/h

(on request: 40 km/h with TC and T4 engine)

TRANSMISSION

Transmission: hydrostatic with variable delivery pump
Hydraulic engine: with automatic adjustment
Reversing gear: electro - hydraulic
Inching pedal for controlled forward movement.
Servocontrolled 2 speed gearbox.

HYDRAULIC SYSTEM

Gear pump with capacity at max speed: 100 l/1'
Max working pressure: 230 bar
Control valve with joystick: 3 in 1

DIFFERENTIAL AXLES

Steering axles: 2, with planetary reduction gears
Type of steering: 4 wheels / transversal / 2 wheels
Front axle: rigid (levelling on request)
Rear axle: oscillating
Service brake: oil bath on the front axle with servo brake
Negative parking brake

OPTIONAL AND ACCESSORIES

Optional and Accessories: see the relevant catalogue

ENGINE

IVECO NEF F4GE0454A - TC - 74 kW ENGINE
Maximum power: 74 kW (102 hp) at 2300 rpm
Operating principle: four-stroke, diesel engine
Cylinder number and layout: 4, vertical in line
Displacement: 4485 cm³ - Turbo compressor
Cooling system: liquid

IVECO NEF F4GE0454C - TA - 94 kW ENGINE
Maximum power: 94 kW (128 hp) at 2300 rpm
Operating principle: four-stroke, diesel engine
Cylinder number and layout: 4, vertical in line
Displacement: 4485 cm³ - Aftercooler turbo compressor
Cooling system: liquid

REFUELLING (litre)

Hydraulic tank: 140
Fuel tank: 95

STANDARD DEVICES

Anti-tipping device with block for hazardous movements.
Hydraulic sucket for possible accessories on boom head.
Closed sandproof ROPS - FOPS approved driver's cab, with heating
Self locking differential on front axle (limited slip 45%).

TYRES

Tyres: 16/70x20"
Alternative: 18/70x24"

TOWING CAPACITY (on request)

Unbraked trailer: 3 ton
Mechanical braking: 5 ton
Hydraulic/pneumatic brake:
TC engine: 17.5 ton
TA engine: 20 ton
40km/h speed included

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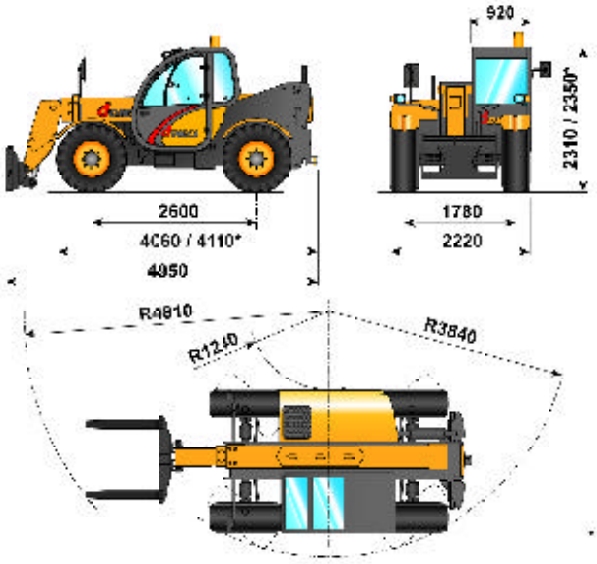
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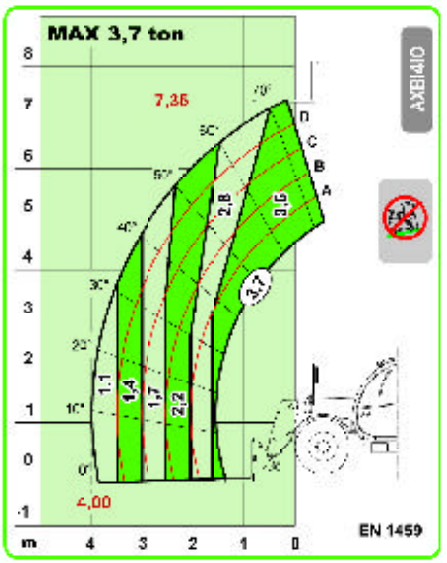
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Agri Star 37.7





PERFORMANCES

Maximum capacity	3.700 kg
Capacity at maximum height on tyres	3.500 kg
Capacity at maximum boom extension on tyres	1.100 kg
Maximum lifting height on tyres	7,35 m
Maximum horizontal boom extension	4,00 m
Boom extension at maximum height	0,20 m
Fork tilting angle	100°
Tearing force	6.700 daN
Towing force	7.300 daN
Maximum allowable slope	40 %
Total empty weight	7.200 kg
Max speed	30 km/h

(on request 40 km/h with TC and TA engine)

TRANSMISSION

Transmission: hydrostatic with variable delivery pump
Hydraulic engine: with automatic adjustment
Reversing gear: electro - hydraulic
Inching pedal for controlled forward movement
Servocontrolled 2 speed gearbox.

HYDRAULIC SYSTEM

Gear pump with capacity at max speed: 100 l/1'
Max working pressure 230 bar
Control valve with joystick: 3 in 1

DIFFERENTIAL AXLES

Steering axles: 2, with planetary reduction gears
Type of steering: 4 wheels / transversal / 2 wheels
Front axle: rigid (levelling on request)
Rear axle: oscillating
Service brake: oil bath on the front axle with servo-brake
Negative parking brake

OPTIONAL AND ACCESSORIES

Optional and Accessories: see the relevant catalogue

ENGINE

IVECO NEF F4GE0484A - TC - 74 kW ENGINE
Maximum power 74 kW (102 hp) at 2300 rpm
Operating principle: four-stroke, diesel engine
Cylinder number and layout: 4, vertical in line
Displacement: 4485 cm³ - Turbo compressor
Cooling system liquid

IVECO NEF F4GE0484C - TA - 94 kW ENGINE
Maximum power 94 kW (128 hp) at 2300 rpm
Operating principle: four-stroke, diesel engine
Cylinder number and layout: 4, vertical in line
Displacement: 4485 cm³ - Aftercooler turbo compressor
Cooling system liquid

REFUELLING (litre)

Hydraulic tank	140
Fuel tank	95

STANDARD DEVICES

Anti-tipping device with block for hazardous movements.
Hydraulic socket for possible accessories on boom head
Closed soundproof ROPS - FOPS approved driver's cab, with heating.
Self-locking differential on front axle (limited slip 45%).

TYRES

Tyres	16/70x20"
Alternative	16/70x24"

TOWING CAPACITY (on request)

Unbraked trailer: 3 ton
Mechanical braking 5 ton
Hydraulic/pneumatic brake:
TC engine 17,5 ton
TA engine 20 ton
40km/h speed included

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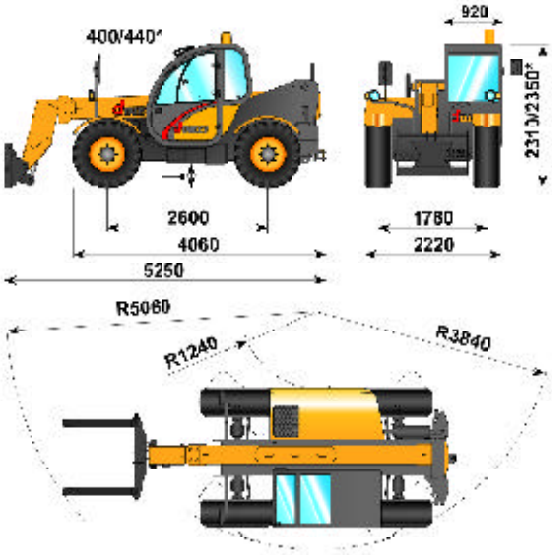
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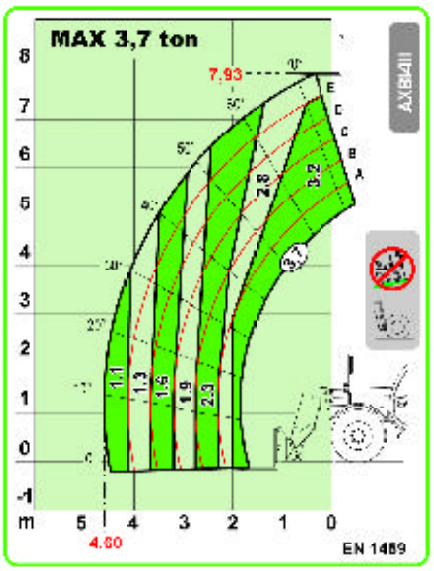
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Agri Star 37.8



* = wheel 24"



PERFORMANCES

Maximum capacity	3.700 kg
Capacity at maximum heigh: on tyres	2.800 kg
Capacity at maximum boom extension on tyres	1.100 kg
Maximum lifting height	7,93 m
Maximum horizontal boom extension	4,80 m
Boom extension at maximum height	0,35 m
Fork tilting ang e	130°
Tearing force	6.700 daN
Towing force	7.300 daN
Maximum al owable slope	40 %
Total empty weight	7.550 kg
Max speed	30 km/h

(on request 40 km/h with TC and TA engine)

ENGINE

IVECO NEF F4GE0454A - TC - 74 kW ENGINE

Maximum power	74 kW (102 hp) at 2300 rpm
Operat ng principle	four-stroke, diesel engine
Cylinder number and layout	4, vertical in line
Displacement	4485 cm³ - Turbo compressor
Cooling system	liquid

IVECO NEF F4GE0484C - TA - 94 kW ENGINE

Maximum power	94 kW (128 hp) at 2300 rpm
Operat ng principle	four-stroke, diesel engine
Cylinder number and layout	4, vertical in line
Displacement	4485 cm³ - Aftercooler turbo compressor
Cooling system	liquid

TRANSMISSION

Transmission: hydrostatic with variable delivery pump
Hydraulic engine: with automatic adjustment
Reversing gear: electro - hydraulic
Inching peda for controlled forward movement.
Servocontrolled 2 speed gearbox.

REFUELLING (litre)

Hydraulic tank	140
Fuel tank	95

HYDRAULIC SYSTEM

Gear pump with capacity at max speed	100 l/1'
Max working pressure	230 bar
Control valve with joystick	3 in 1

STANDARD DEVICES

Anti-tipp ng device with clock for hazardous movements.
Hydraulic socket for possible accessories on boom head
Closed sound-proof ROPS - FOPS approved driver's cab, with heating
Self-locking differential on front axle (limitec slip 45%).

DIFFERENTIAL AXLES

Steering axes	2 with p anetary reduct on gears
Type of steering	4 wheels / transverse / 2 wheels
Front axle	rigid (levelling on request)
Rear axle	oscillating
Service brake	oil bath on the front axle with servo-brake

Negative parking brake

TYRES

Tyres	15/70x20"
Alternative	15/70x24"

OPTIONAL AND ACCESSORIES

Optional and Accessories: see the relevant catalogue

TOWING CAPACITY (on request)

Unbraked trailer	3 ton
Mechanical braking	5 ton
Hydraulic/pneumat c brake:	
TC engine	17,5 ton
TA engine	20 ton

40km/h speed included

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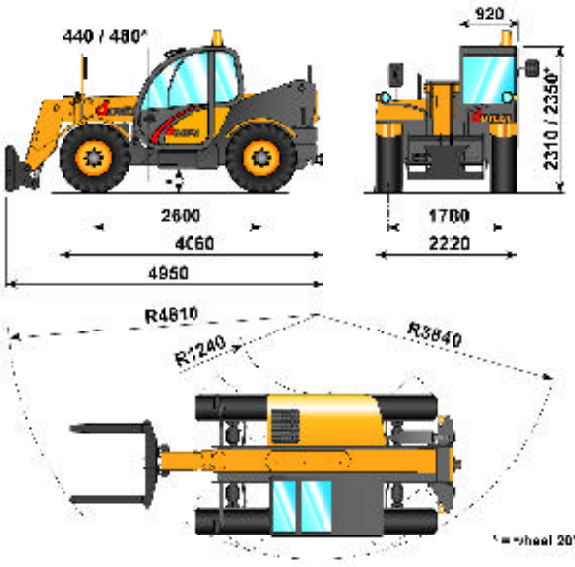
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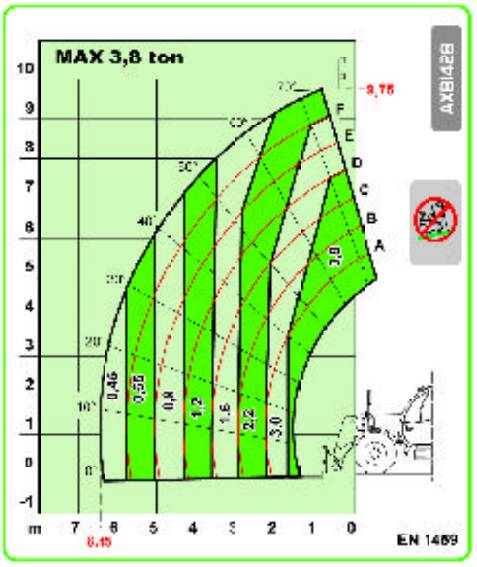
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Agri Star 38.10





PERFORMANCES

Maximum capacity	3.800 kg
Capacity at maximum height on tyres	2.200 kg
Capacity at maximum boom extension on tyres	450 kg
Maximum lifting height on tyres	9.75 m
Maximum horizontal boom extension	6.45 m
Boom extension at maximum height	0.84 m
Fork tilting angle	132°
Tearing force	5.700 daN
Towing force	7.300 daN
Maximum allowable slope	40 %
Total empty weight	7.800 kg
Max speed	30 km/h
(on request 40 km/h with TC and TA engine)	

TRANSMISSION

Transmission: hydrostatic with variable delivery pump
Hydraulic engine: with automatic adjustment
Reversing gear: electro - hydraulic
Inching pedal for controlled forward movement.
Servocontrolled 2 speed gearbox.

HYDRAULIC SYSTEM

Gear pump with capacity at max speed	100 lt/1'
Max working pressure	230 bar
Control valve with joystick	3 in 1

DIFFERENTIAL AXLES

Steering axles: 2, with planetary reduction gears
Type of steering: 4 wheels / transversal / 2 wheels
Front axle: rigid (levelling on request)
Rear axle: oscillating
Service brake: oil bath on the front axle with servo brake
Negative parking brake

OPTIONAL AND ACCESSORIES

Optional and Accessories: see the relevant catalogue

ENGINE

IVECO NEF F4GE0454A - TC - 74 kW ENGINE
Maximum power: 74 kW (102 hp) at 2300 rpm
Operating principle: four-stroke, diesel engine
Cylinder number and layout: 4, vertical in line
Displacement: 4485 cm³ - Turbo compressor
Cooling system: liquid

IVECO NEF F4GE0484C - TA - 94 kW ENGINE
Maximum power: 94 kW (128 hp) at 2300 rpm
Operating principle: four-stroke, diesel engine
Cylinder number and layout: 4, vertical in line
Displacement: 4485 cm³ - Aftercooler turbo compressor
Cooling system: liquid

REFUELLING (litre)

Hydraulic tank	140
Fuel tank	95

STANDARD DEVICES

Anti-tipping device with block for hazardous movements.
Hydraulic socket for possible accessories on boom head
Closed soundproof ROPS - FOPS approved drivers cab, with heating.
Self-locking differential on front axle (limited slip 45%).

TYRES

Tyres	15/70x20"
Alternative	16/70x24"

TOWING CAPACITY (on request)

Unbraked trailer	3 ton
Mechanical braking	5 ton
Hydraulic/pneumatic brake:	
TC engine	17,5 ton
TA engine	20 ton

40km/h speed included

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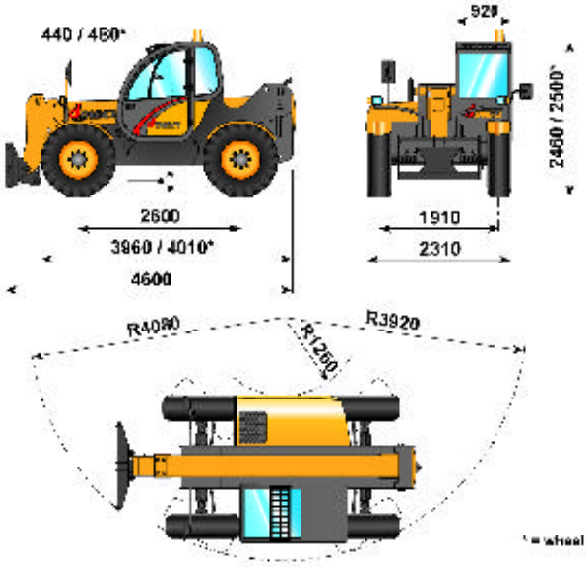
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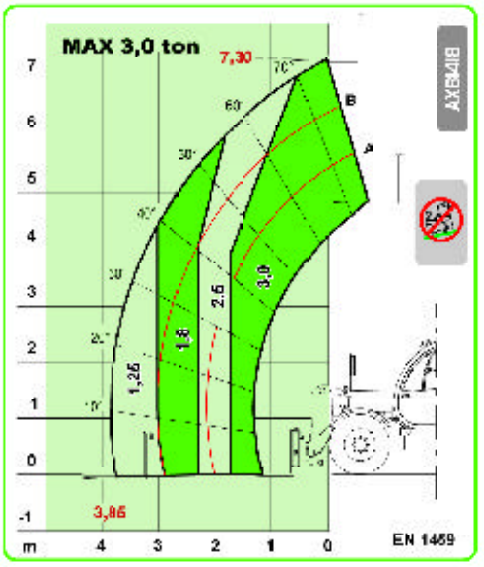
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Agri Power 30.7





PERFORMANCES

Maximum capacity	3.000 kg
Capacity at maximum height on tyres	3.000 kg
Capacity at maximum boom extension on tyres	1.250 kg
Maximum lifting height on tyres	7,30 m
Maximum horizontal boom extension	3,85 m
Boom extension at maximum height	0,00 m
Fork tilting angle	13°
Tearing force	5 700 daN
Towing force	7 300 daN
Maximum allowable slope	40 %
Total empty weight	7.700 kg
Max speed	30 km/h

(on request 40 km/h with TC and TA engine)

ENGINE

MECO NEF F4GE0454A - TC - 74 kW ENGINE

Maximum power	74 KW (102 hp) at 2300 rpm
Operating principle	four-stroke, diesel engine
Cylinder number and layout	4, vertical in line
Displacement	4485 cm³ - Turbo compressor
Cooling system	liquid

MECO NEF F4GE0484C - TA - 94 kW ENGINE

Maximum power	94 KW (128 hp) at 2300 rpm
Operating principle	four-stroke, diesel engine
Cylinder number and layout	4, vertical in line
Displacement	4485 cm³ - Aftercooler turbo compressor
Cooling system	liquid

TRANSMISSION

Transmission: hydrostatic with variable delivery pump
Hydraulic engine: with automatic adjustment
Reversing gear: electro - hydraulic
Inching pedal for controlled forward movement.
Servocontrolled 2 speed gearbox.

REFUELLING (litre)

Hydraulic tank	155
Fuel tank	105

HYDRAULIC SYSTEM

Gear pump with capacity at max speed	100 l/l'
Max working pressure	230 bar
Control valve with joystick	3 in 1

STANDARD DEVICES

Anti-tipping device with block for hazardous movements.
Hydraulic socket for possible accessories on boom head.
Closed soundproof ROPS - FOPS approved driver's cab, with heating.
Self-locking differential on front axle (limited slip 45%).

DIFFERENTIAL AXLES

Steering axles: 2, with planetary reduction gears
Type of steering: 4 wheels / transversal / 2 wheels
Front axle: rigid (levelling on request)
Rear axle: oscillating
Service brake: oil bath on the 4 wheels with double hydraulic system

TYRES

Tyres	16/70x20"
Alternative	16/70x24"

OPTIONAL AND ACCESSORIES

Optional and Accessories see the relevant catalogue

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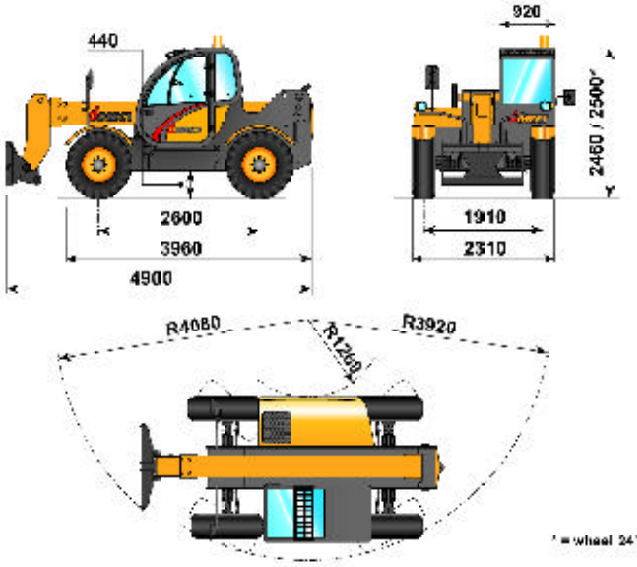
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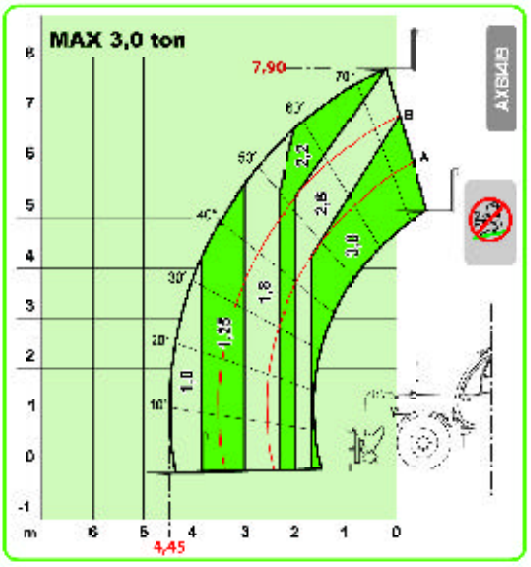
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Agri Power 30.8





PERFORMANCES

Maximum capacity	3.000 kg
Capacity at maximum height on tyres	2.600 kg
Capacity at maximum boom extension on tyres	1.000 kg
Maximum lifting height on tyres	7,90 m
Maximum horizontal boom extension	4,45 m
Boom extension at maximum height	0,30 m
Fork tilting angle	134°
Tearing force	5.700 daN
Towing force	7.300 daN
Maximum allowable slope	40 %
Total empty weight	8.000 kg
Max speed	30 km/h

(or request 40 km/h with TC and TA engine)

ENGINE

IVECO NEF F4GE0454A - TC - 74 kW ENGINE

Maximum power	74 kW (102 hp) at 2300 rpm
Operating principle	four-stroke, diesel engine
Cylinder number and layout	4, vertical in line
Displacement	4485 cm³ - Turbo compressor
Cooling system	liquid

IVECO NEF F4GE0484C - TA - 94 kW ENGINE

Maximum power	94 kW (128 hp) at 2300 rpm
Operating principle	four-stroke, diesel engine
Cylinder number and layout	4, vertical in line
Displacement	4485 cm³ - Aftercooler turbo compressor
Cooling system	liquid

TRANSMISSION

Transmission: Hydrostatic with variable delivery pump
Hydraulic engine: with automatic adjustment
Reversing gear: Electro - hydraulic
Inching pedal for controlled forward movement
Servocontrolled 2 speed gearbox.

REFUELLING (litre)

Hydraulic tank	155
Fuel tank	105

HYDRAULIC SYSTEM

Gear pump with capacity at max speed: 100 l/1'
Max working pressure: 230 bar
Control valve with joystick: 3 in 1

STANDARD DEVICES

Anti-tipping device with block for hazardous movements
Hydraulic socket for possible accessories on boom head
Closed soundproof ROPS - FOPS approved driver's cab, with heating.
Self-locking differential on front axle (limited slip 45%).

DIFFERENTIAL AXLES

Steering axles: 2, with 4 planetary reduction gears
Type of steering: 4 wheels / transversal / 2 wheels
Front axle: rigid (swelling on request)
Rear axle: oscillating
Service brake: oil bath on the 4 wheels with double hydraulic system and servo-brake

TYRES

Tyres	16/70x20"
Alternative	16/70x24"

OPTIONAL AND ACCESSORIES

Optional and Accessories: see the relevant catalogue

The illustrations contained in this publication may include equipment not forming part of the standard machine. The manufacturer reserves the right to modify the machine specifications at any time without prior notice. Some machines may be shown with optional equipment. Please contact your local DIECI dealer for availability of equipment for your area.

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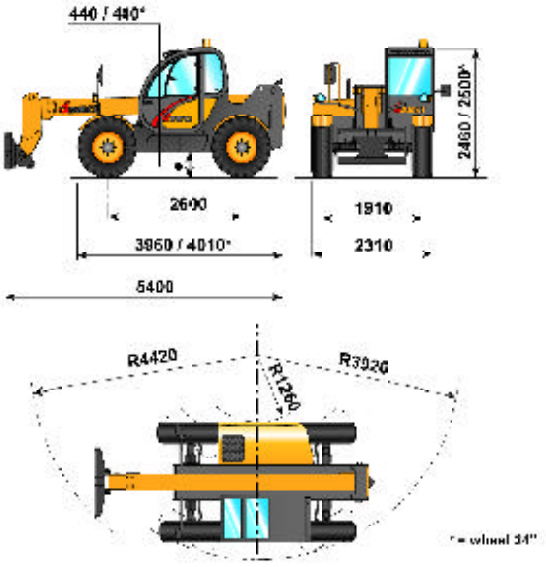
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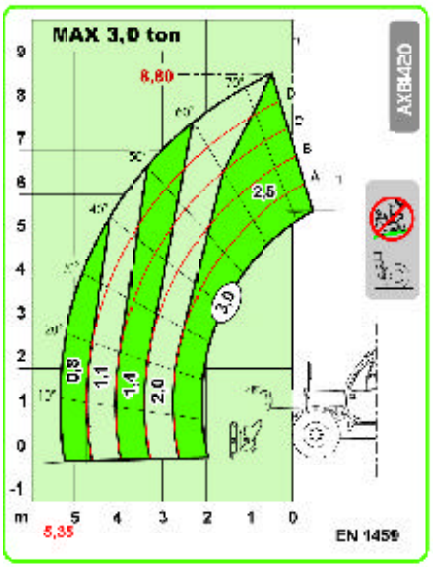
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Agri Power 30.9





PERFORMANCES

Maximum capacity	3.000 kg
Capacity at maximum height on tyres	2.500 kg
Capacity at maximum boom extension on tyres	800 kg
Maximum lifting height	8.80 m
Maximum horizontal boom extension	5.35 m
Boom extension at maximum height	0.50 m
Fork tilting angle	134°
Tearing force	5.700 daN
Towing force	7.300 daN
Maximum allowable slope	40 %
Total empty weight	6.300 kg
Max speed	30 km/h
(on request 40 km/h with TC and TA engine)	

ENGINE

IVECO NEF F4GE0454A TC - 74 kW ENGINE

Maximum power	74 kW (102 cv) at 2300 rpm
Operating principle	four-stroke, diesel engine
Cylinder number and layout	4, vertical in line
Displacement	4485 cm³ - Turbo compressor
Cooling system	liquid

IVECO NEF F4GE0484C - TA - 94 kW ENGINE

Maximum power	94 kW (128 cv) at 2300 rpm
Operating principle	four-stroke, diesel engine
Cylinder number and layout	4, vertical in line
Displacement	4485 cm³ - Aftercooler turbo compressor
Cooling system	liquid

TRANSMISSION

Transmission: hydrostatic with variable delivery pump
Hydraulic engine: with automatic adjustment
Reversing gear: electro - hydraulic
Inching pedal for controlled forward movement.
Servocontrolled 2 speed gearbox.

REFUELLING (litre)

Hydraulic tank	155
Fuel tank	105

HYDRAULIC SYSTEM

Gear pump with capacity at max speed	100 lt/1'
Max working pressure	230 bar
Control valve with joystick	3 in 1

STANDARD DEVICES

Anti-tipping device with block for hazardous movements.
Hydraulic socket for possible accessories on boom head.
Closed soundproof ROPS - FOPS approved driver's cab, with heating.
Self locking differential on front axle (limited slip 45%).

DIFFERENTIAL AXLES

Steering axles	2, with planetary reduction gears
Type of steering	4 wheels / transversal / 2 wheels
Front axle	rigid (levelling on request)
Rear axle	oscillating
Service brake	oil bath on the 4 wheels with double hydraulic system

TYRES

Tyres	16.70x20"
Alternative	16.70x24"

OPTIONAL AND ACCESSORIES

Optional and Accessories: see the relevant catalogue

The pictures or comments in this publication are only indicative. Dimensions and weights may be modified, without notice, by the manufacturer. Drawings and photographs may refer to optional or particular equipment for other countries. For any further information please contact DIECI's service at the addresses given below.

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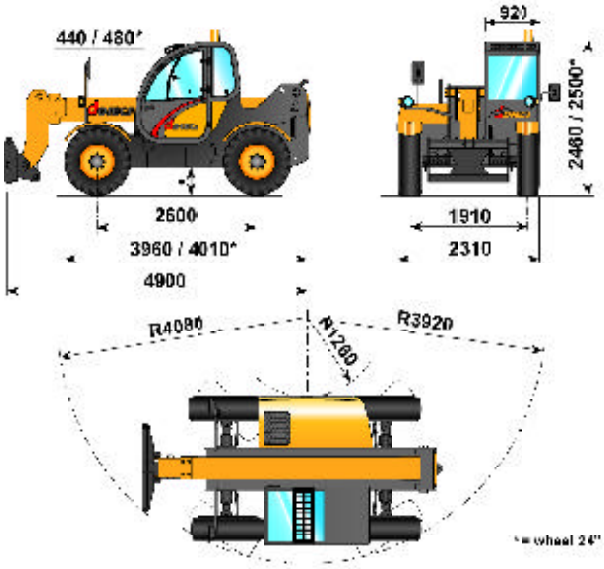
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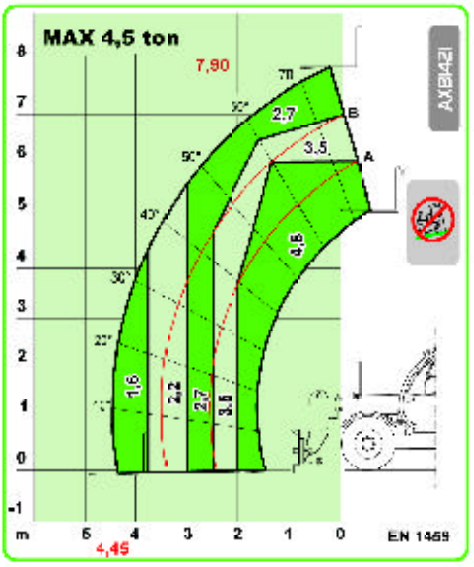
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Agri Max 45.8





PERFORMANCES

Maximum capacity	4.500 kg
Capacity at maximum height on tyres	2.700 kg
Capacity at maximum boom extension on tyres	1.600 kg
Maximum lifting height on tyres	7,90 m
Maximum horizontal boom extension	4,45 m
Boom extension at maximum height	0,30 m
Fork tilting angle	13°
Tearing force	5.700 daN
Towing force	7.300 daN
Maximum allowable slope	40 %
Total empty weight	6.700 kg
Max speed	30 km/h

(on request 40 kmh with TC and TA engins)

ENGINE

VECO NEF F4GE0454A - TC - 74 kW ENGINE

Maximum power	74 kW (102 hp) at 2300 rpm
Operating principle	four-stroke diesel engine
Cylinder number and layout	4, vertical in line
Displacement	4485 cm³ - Turbo compressor
Cooling system	liquid

VECO NEF F4GE0484C - TA - 94 kW ENGINE

Maximum power	94 kW (128 hp) at 2300 rpm
Operating principle	four-stroke diesel engine
Cylinder number and layout	4, vertical in line
Displacement	4485 cm³ - Aftercooler turbo compressor
Cooling system	liquid

TRANSMISSION

Transmission: hydrostatic with variable delivery pump
Hydraulic engine: with automatic adjustment
Reversing gear: electro - hydraulic
Inching pedal for controlled forward movement.
Servocontrolled 2 speed gearbox

REFUELLING (litre)

Hydraulic tank	155
Fuel tank	105

HYDRAULIC SYSTEM

Gear pump with capacity at max speed	100 l/1'
Max working pressure	230 bar
Control valve with joystick	3 in 1

STANDARD DEVICES

Anti-tipping device with block for hazardous movements.
Hydraulic socket for possible accessories on boom head.
Closed soundproof ROPS - FOPS approved driver's cab, with heating.
Self-locking differential on front axle (limited slip 45%).

DIFFERENTIAL AXLES

Steering axles	2, with planetary reduction gears
Type of steering	4 wheels / transversal / 2 wheels
Front axle	rigid (levelling on request)
Rear axle	oscillating

Service brake: oil bath on the 4 wheels with double hydraulic system

TYRES

Tyres	18/70x20"
Alternative	13/70x24"

OPTIONAL AND ACCESSORIES

Optional and Accessories ..... see the relevant catalogue

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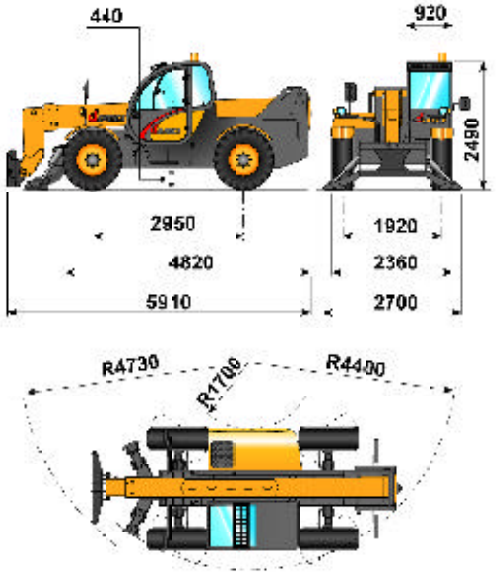
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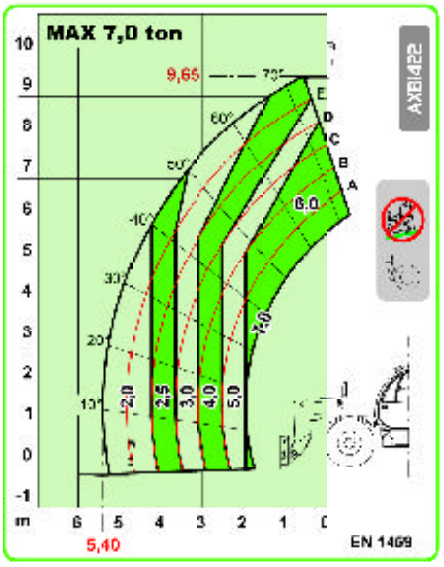
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Agri Max 70.10





PERFORMANCES

Maximum capacity:	7.000 kg
Capacity at maximum height on tyres:	4.000 kg
Capacity at maximum boom extension on tyres:	2.000 kg
Maximum lifting height on tyres:	9.65 m
Maximum horizontal boom extension:	5.40 m
Boom extension at maximum height:	0.70 m
Fork tilting angle:	134°
Tearing force:	5.700 daN
Towing force	7.200 daN
Maximum allowable slope:	40 %
Total empty weight:	11.300 kg
Max speed	30 km/h
	(on request 40 km with TA engine)

ENGINE

IVECO NEF F4GE0454A - TC - 74 kW ENGINE

Maximum power:	74 kW (102 hp) at 2300 rpm
Operating principle:	four-stroke, diesel engine
Cylinder number and layout:	4, vertical in line
Displacement:	4485 cm³ - Turbo compressor
Cooling system:	liquid

IVECO NEF F4GE0484C - TA - 94 kW ENGINE

Maximum power:	94 kW (128 hp) at 2300 rpm
Operating principle:	four-stroke, diesel engine
Cylinder number and layout:	4, vertical in line
Displacement:	4485 cm³ - After cooler turbo compressor
Cooling system:	liquid

TRANSMISSION

Transmission:	Hydrostatic with variable delivery pump
Hydraulic engine:	with automatic adjustment
Reversing gear:	electro - hydraulic

Inching pedal for controlled forward movement
Servocontrolled 2 speed gearbox

REFUELLING (litre)

Hydraulic tank:	160
Fuel tank:	105

HYDRAULIC SYSTEM

Gear pump with capacity at max speed	100 lt'1'
Max working pressure	230 bar
Control valve with joystick:	2 or 1

STANDARD DEVICES

Anti-tipping device with block for hazardous movements.
Hydraulic socket for possible accessories on boom head.
Closed soundproof ROPS - FOPS approved driver's cab, with heating.
Self locking differential on front axle (limited slip 45%).

DIFFERENTIAL AXLES

Steering axles:	2, with planetary reduction gears
Type of steering:	4 wheels / transversal / 2 wheels
Front axle:	rigid (levelling on request)
Rear axle:	oscillating
Service brake:	oil bath on the 4 wheels with double hydraulic system and servo-brake

Negative parking brake

TYRES

Tyres: 16x22.5"

OPTIONAL AND ACCESSORIES

Optional and Accessories: see the relevant catalogue

The information contained in this publication is merely indicative. Illustrated machines may be equipped with optional or special equipment. For other details or further information, please contact DIECI personnel or authorised agents listed below.

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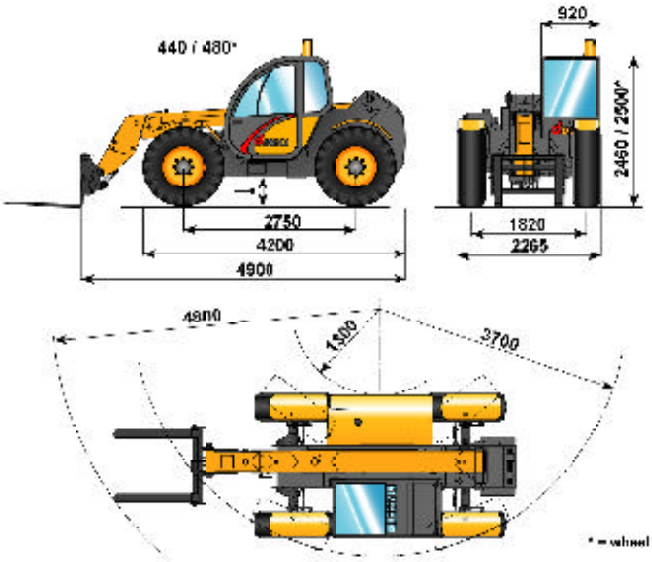
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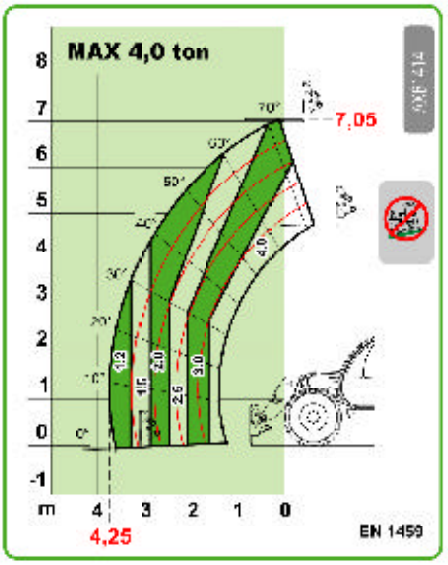
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Agri Plus 40.7 H





PERFORMANCES

Maximum capacity:	4.000 kg
Capacity at maximum height on tyres:	3.000 kg
Capacity at max. boom extension on tyres:	1.200 kg
Maximum lifting height on tyres:	7,05 m
Maximum horizontal boom extension:	4,25 m
Boom extension at max. height:	0,11 m
Fork tilting angle	135°
Tearing force	5.700 daN
Towing force	7.600 daN
Maximum allowable slope	60 %
Total empty weight	7.600 kg
Max. speed:	40 km/h

TRANSMISSION

Transmission:	with torque converter
Reversing gear:	electro - hydraulic
Power Shift gearbox with inching pedal	
Gears (Forward/Reverse)	4/3

HYDRAULIC CIRCUIT

Gear pump with capacity at max. speed:	110 l/min.
Max. working pressure:	230 bar
Distributor control with joystick:	3 in 1

DIFFERENTIAL AXLES

Steering axles:	2, with planetary reduction gears
Type of steering:	4 wheels / transversal / 2 wheels
Front axle:	rigid (lowelling on request)
Rear axle:	oscillating
Service brake	oil bath on front and rear axle with servo brake
Negative parking brake	

TYRES

Tyres:	16/70x24"
Alternative:	17.5/70R24"

ENGINE

ENGINE – IVECO NEF - TA - 93 kW (Tier 3)

Maximum net power	93 kW (125 HP) at 2200 rpm
Operating principle:	four-stroke, diesel engine
Number of cylinders and layout:	4, vertical in line
Displacement:	4485 cm³ - Turbo compressor
Cooling system:	water

REFUELLING (litres)

Hydraulic system (total)	100
Fuel tank:	160

STANDARD DEVICES

Homologated as farm tractor
Anti tipping device with locking function for hazardous movements.
Hydraulic socket for possible accessories on boom head.
Closed soundproof ROPS-FOPS approved driver's cab, with heating.
Self-locking front axle (limited slip 45%).
Electric steering control.
Homologated tow hook (20 t)
Self-cleaning filter with traps

OPTIONAL AND ACCESSORIES

A/C – Air heaters – Water heaters – Radio with CD player – Rear hydraulic socket – Rear hook, adjustable in height – Pneumatic brake – Hydraulic brake – Rear hydraulic PTO – Automatic reversible fan – Boom suspension – 4-in-1 distributor with LOAD SENSING and FLOW SHARING – Twin pump (160 l) with ENERGY SAVING system.

TOWING CAPACITY (on request)

Towing without brake:	3 Ton
Mechanical brake:	5 Ton
Hydraulic/pneumatic brake	20 Ton

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