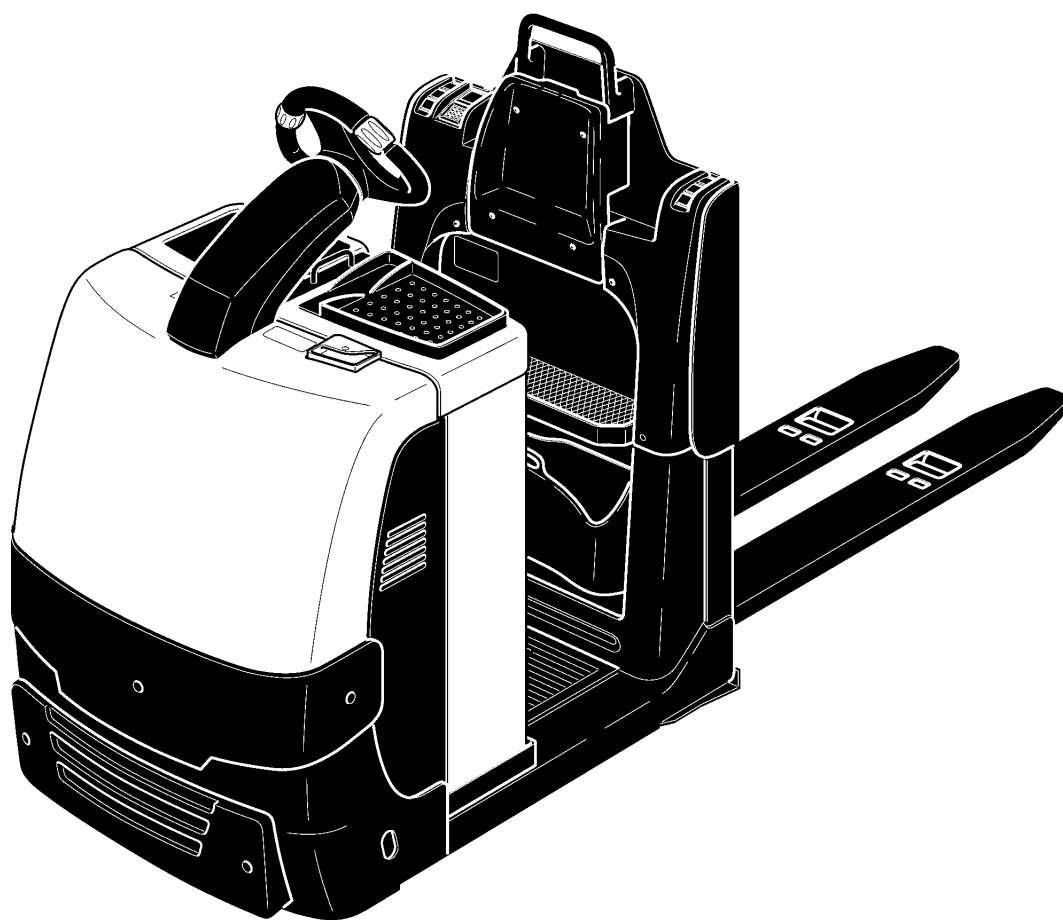


ECE 225

Spare parts manual

90309857



JUNGHEINRICH



Original JUNGHEINRICH spare parts



The quality, performance and service life of a fork lift truck can only be as good as the components and assemblies from which it is made. This idea does not only form the basis for all JUNGHEINRICH production procedures, but is also the foundation upon which rest the JUNGHEINRICH spare parts logistics permitting qualified and economic servicing and maintenance of the trucks.

Original JUNGHEINRICH spare parts will give increased safety and reliability

Jungheinrich spare parts are based on decades of manufacturer's know-how in assembling stacking and lifting trucks as well as battery chargers.

As is the case for all products supplied by our company, original JUNGHEINRICH spare parts are subjected to rigorous quality checks, and this does not only apply to parts produced at our works, but also to all parts of complementary purchases.

Original JUNGHEINRICH spare parts represent the latest state of development and their use will automatically confer product upgrading and increased performance to your trucks. Using original JUNGHEINRICH spare parts means that your truck is not only technically, but also technologically, up to date.

Every product that leaves our works complies with the stringent safety regulations of the EC-guidelines. EC-conformity is guaranteed for every JUNGHEINRICH truck. The use of original JUNGHEINRICH spare parts, installed in your truck by the JUNGHEINRICH customer service, ensures that your equipment retains its EC-conformity. Interference by outside contractors, or the use of parts made available

by outside suppliers, will result in the loss of EC-conformity, which means that the safety of your truck may be impaired and that the truck might possibly have to be decommissioned.

For product liability reasons as well you should endeavour to keep your truck a "purebred" JUNGHEINRICH product.

Extending the truck service life by using JUNGHEINRICH repair kits

Technically logical grouping of original parts will restore assemblies functionally to a virtually new condition. Repair kits contain all individual parts required for the repairs in hand and avoid any loss of time caused by missing parts. Preventive replacement of parts will ensure 100 per cent reliable functioning of the respective assemblies. Technical safety and reliability, and thus the service life, of the assembly will be increased by the high quality of the repairs.

JUNGHEINRICH exchange components An environmentally-friendly and economic alternative.

The JUNGHEINRICH exchange component programme offers inexpensive, fully reconditioned assemblies in a virtually new condition and covered by our full warranty.

Reconditioning is governed by the same stringent quality regulations as apply to the production of new parts thus ensuring extreme functional reliability. Regular integrating of new parts in the reconditioning process makes it possible that also the JUNGHEINRICH exchange components will incorporate the technical improvements of new products.

A credit note is issued for the return of repair-worthy old parts. Reconditioning and re-use of parts and assemblies will also protect the environment. Unrepairable parts and assemblies will be properly disposed of.

How to use the spare parts catalogue

The spare parts catalogue contains the truck master data list and the spare parts list of the associated truck.

The breakdown of the parts as shown in the spare parts lists corresponds to the spare parts logistics as employed by JUNGHEINRICH for practical and meaningful repairs.

Some spare parts are not shown as items in the parts drawings, but can be ordered.

Truck identification plate:



Truck serial number

The serial number as shown on the truck identification plate must correspond to the serial number indicated on the truck record card.

The diagram shows a rectangular identification plate. At the top left is the JUNGHEINRICH logo with an upward-pointing arrow. At the top right is the CE mark. Below the logo is a field for 'Xxxx' and 'Xxxx'. Below that is a field for 'XXXXXXXX' and 'XXXXXXXX'. Below that is a field for 'Xxxxxx' and 'Xxxxxx'. Below that is a field for 'XXXXXXXX' and 'kg'. Below that is a field for 'Xxxxx' and 'mm'. Below that is a field for 'Xxxxx' and 'kg'. Below that is a field for 'Xxxxx' and 'kg'. Below that is a field for 'Xxxxx' and 'kg'. At the bottom is a field for 'Jungheinrich Aktiengesellschaft - Hamburg'.

Identification of spare parts:

- Select the list number from the technical data sheet of the truck.
- Refer to the list number in the catalogue and note down the required spare parts.



Boldface items in the spare-parts lists refer to other, separately available spare-parts lists.

"-" Items which are characterised with "-" are not available as spare parts.

Repair kits

The repair kits broken down into their individual parts are shown in the spare parts lists for the assembly relations.

Exchange components

The order numbers of exchange assembly-groups are specified on the spare-parts lists below the order numbers of the new parts - "designation (AT)"

Spare parts ordering

To ensure rapid processing of your spare parts requirements we need the following data:

- Serial number of the truck.
- Order number and designation of the part concerned.
- Number of parts or dimensions required.
- Mode of dispatch desired.
- Forwarding address.

Please address your spare parts requirements to the JUNGHEINRICH Customer Service.

Technische Abkürzungen

D

A	Elektronische Fahrstromsteuerung	i	Getriebeübersetzung	rs	rosa
aA	auswechselbares Anbaugerät	IF	Induktive Führung	RS	Rückspeise-Modul
AH	Antriebssteuerung - Hydraulik	K	Kühlhausausführung	RS	Reihenschlußmotor
Ah	Ampere-Stunden (Batteriegröße)	Ku	Gleitkufe	rt	rot
AT	Austauschteil	L	Luftbereifung	S	Seitenschieber
BK	Batteriekabel	l	Liter (lmin als Förderleistung)	S1	Register Schaltpläne hydraulisch
bl	blau	LG	Lastgabel	S2	Register Schaltpläne elektrisch
br	braun	li	links	SG	Schwenkgabel
Bt	Batterie (Anzahl)	LK	Ladekabel	Sh	Schnellhub
BZ	Betriebsstundenzähler	LL	Zwillings-Luftbereifung	SH	Scherenhub
cm³/rev	Fördermenge pro Umdrehung	Lr	Lastrad	SM	Schwenkschubgabel Meyer
CS	Codeschloß	LrB	Lastradbremse	So	Sonderausführung
D	Durchmesser	LSP	Lastschwerpunktstand	SR	Schwenkschubgabel Raymond
Df	Dreifach	Mag	Federkraftbremse	ST	Stahl (Bandage)
DT	Dreifach-Tele	mAn	mit Anlaufrollen	Su	Supranyl-Bandage
DZ	Dreifach-Zweihub	mB	mechanische Bremse	sw	schwarz
E	Elastikbereifung	mech	mechanisch	SX	Schwenkschubgabel SX
EA	Entladeanzeiger	mech L	mechanische Lenkung	SY	Schwenkschubgabel SY
EE	Zwillings-Elastikbereifung	mL	mit Lenkhilfe	T	Teleskop
el	elektrisch	mM	mit Mastabspannung	Ta	Tandem
eL	elektrische Lenkung	mPl	mit Plattform	TG	Teleskopgabel
EM	Einfachmast	NS	Nebenschlußmotor	Tr	Trogamit-Bandage
ER	Einfach-RolleRad	Ny	Nylon	V	Vollgummi
EW	Entladewächter	oAn	ohne Anlaufrollen	vA	verstärkte Ausführung
ex	explosions- o. staubgesch. Anlage	oL	ohne Lenkhilfe	Vf	Vierfach
F	Fahrmotor	oM	ohne Mastabspannung	vi	violett
FA	Fahrertrieb	oPl	ohne Plattform	VT	Vierfach-Tele
FEM	Fédération Européenne de la Manutention	or	orange	Vu	Polyurethan
FK	Fahrzeugkabel	P	Pumpenmotor	VV	Zwillings-Vollgummibereifung
ge	gelb	p	profilert	W	Widerstands-E-Anlage
Ge	Gegenlauflenkung	PD	Freisicht-Hubgerüst DZ	ws	weiß
gef	gefedert	Prop	Proportionalsteuerung	Z	Zweihub
Gl	Gleichlauflenkung	PT	Freisicht-Hubgerüst ZT	Zf	Zweifach
gn	grün	PUR	Polyurethan	ZG	Zusatzhubgerüst
Gn	neigbarer Gabelträger	PZ	Freisicht-Hubgerüst ZZ	ZH	Zusatz-Hydraulik
gr	grau	PzS	Panzerplattenbatterie	Zn	verzinkt
h1	Bauhöhe	Ra	Rad	ZR	Zwillings-RolleRad
h3	Hubhöhe (HH)	re	rechts	ZT	Zweifach-Tele
HV	Höhenvorwahl	Rei	Reifen	Zu	Zusatz
HVZ	Hochverzahnung	RH	Rampenhub	ZV	Zusatz-Vorspannventil
hy	hydraulisch			ZZ	Zweifach Zweihub

Technical abbreviations

GB

A	Electronic driving current control system	i	Gearing ratio	rs	pink
aA	exchangeable attachment	IF	Inductive guidance	RS	Feedback module
AH	Hydraulic drive control system	K	Cold storage version	RS	Series Motor
Ah	Ampere-hours (battery size)	Ku	Skid	rt	red
AT	service exchange	L	Pneumatic tyres	S	Lateral traversing equipment
BK	Battery cable	l	Pump delivery in liter/min	S1	Hydraulic diagram index
bl	blue	LG	Fork	S2	Electric wiring diagram index
br	brown	li	left	SG	Swivelling fork
Bt	Battery (number)	LK	Charging cable	Sh	Rapid lift
BZ	Hour meter	LL	Twin pneumatic tyres	SH	scissor-type lift
cm ³ /rev	revflow rate per revolution	Lr	Load-bearing wheel	SM	Meyer swivel/traverse fork
CS	Code Lock	LrB	Load-bearing wheel brake	So	Special version
D	Diameter	LSP	Load centre	SR	Raymond swivel/traverse fork
Df	Triple	Mag	Spring pressure brake	ST	Steel tyre
DT	Triple-Telescope	mAn	with cams	Su	Supranyl tyre
DZ	Triple-double lift	mB	Mechanical brake	sw	black
E	Elastic tyres	mech	mechanical	SX	SX swivel/traverse fork
EA	Discharge indicator	mech L	mechanical steering	SY	SY swivel/traverse fork
EE	Twin elastic tyres	mL	with steering booster	T	Telescope
el	electrical	mM	with mast bracing	Ta	Tandem
eL	electrical steering	mPl	with platform	TG	Telescopic fork
EM	Single mast	NS	Shunt Motor	Tr	Trogamit tyre
ER	Single roller/wheel	Ny	Nylon	V	Solid rubber tyre
EW	Discharge monitor	oAn	without cams	vA	Strengthened version
ex	explosion proof or dust protect. installation	oL	without steering booster	Vf	Quadruple
F	Drive motor	oM	without mast bracing	vi	violet
FA	Drive	oPl	without platform	VT	Quadruple-Telescope
FEM	Fédération Européenne de la Manutention	or	orange	Vu	Polyurethane
FK	Truck cable	P	Pump motor	VV	Twin solid tyres
ge	yellow	p	Treated tyre	W	Electric. resistance system
Ge	Differential steering	PD	Clear-view hoist frame DZ	ws	white
gef	sprung	Prop	Proportional control system	Z	Double lift
GI	Synchronized steering	PT	Clear-view hoist frame ZT	Zf	Double
gn	green	PUR	Polyurethane	ZG	Montante sollevamento supplementare
Gn	Tilttable fork carrier	PZ	Clear-view hoist frame ZZ	ZH	Aux. hydraulics
gr	gray	PzS	Armour plate battery	Zn	zincd
h1	Design height	Ra	Wheel	ZR	Twin roller/wheel
h3	Lifting height (HH)	re	right	ZT	Double-Telescope
HV	Height selection system	Rei	Tyre	Zu	Auxiliary
HVZ	Gear, heavy-duty	RH	Ramp Lift	ZV	Aux. pressurizing valve
hy	hydraulic			ZZ	Twin-double lift

Abréviations techniques

F

A	Commande d'entraînement électronique	i	Rapport de transmiss. d'engrenage	rs	rose
aA	Appareil rapporté échangeable	IF	Guidage par induction	RS	Module de retour
AH	Commande d'entraînement hydraulique	K	Version entrepôt frigorifique	RS	Moteur série
Ah	Ampère-heures (grandeur de la batterie)	Ku	Patin	rt	rouge
AT	échange	L	Pneumatiques	S	Cadre à déplacement latéral
BK	Câble de batterie	l	Litre (débit de la pompe litre/min.)	S1	Registre schémas hydrauliques
bl	bleu	LG	Fourche de charge	S2	Registre schémas électriques
br	marron	li	gauche	SG	Fourche rotative
Bt	Batterie (nombre)	LK	Câble de charge	Sh	élévation rapide
BZ	Compteur d'heures de service	LL	Pneumatiques jumelés	SH	Levage à ciseaux
cm³/rev	Débit rev. Par tr	Lr	Roue porteuse	SM	Fourche tri-directionnelle Meyer
CS	Code de clé	LrB	Frein de roue porteuse	So	Version spéciale
D	Diamètre	LSP	Distance centre de gravité de la charge	SR	Fourche tri-directionnelle Raymond
Df	Triple	Mag	Frein actionné par ressorts	ST	Bandage en acier
DT	Triple-Télescopique	mAn	avec rouleaux amortisseur	Su	Bandage Supranyl
DZ	Triple à double élévation	mB	Frein mécanique	sw	noir
E	Bandage élastique	mech	mécanique	SX	Fourche tri-directionnelle SX
EA	Indicateur de décharge	mech L	direction mécanique	SY	Fourche tri-directionnelle SY
EE	Bandage élastique jumelés	mL	avec direction assistée	T	Télescope
el	électrique	mM	avec haubannage de mât	Ta	Tandem
eIL	direction électrique	mPI	avec plate-forme	TG	Fourche télescopique
EM	Mât simple	NS	Moteur shunt/- à excitation séparée	Tr	Bandage Trogamit
ER	Rouleau/roue simple	Ny	Nylon	V	Bandage en caoutchouc plein
EW	Contrôleur de décharge	oAn	sans rouleaux amortisseur	vA	Exécution renforcée
ex	Instal. antidéflagrante et prot. poussière	oL	sans direction assistée	Vf	Quadruple
F	Moteur de déplacement	oM	sans haubannage de mât	vi	violet
FA	Entraînement de déplacement	oPI	sans plate-forme	VT	Télescopique Quadruple
FEM	Fédération Européenne de la Manutention	or	orange	Vu	Polyuréthane
FK	Câble de véhicule	P	Moteur de pompe	VV	Bandage caoutchouc plein jumelés
ge	jaune	p	Bandage profilé	W	Installation électrique à résistances
Ge	Direction rotation antagoniste	PD	Cadre élévateur DZ - vue libre	ws	blanc
gef	à ressort	Prop	Commande proportionnelle	Z	Double élévation
GI	Direction synchronisme	PT	Cadre élévateur ZT - vue libre	Zf	Double
gn	vert	PUR	Polyuréthane	ZG	Mât supplémentaire
Gn	Dispositif d'inclinaison de fourche	PZ	Cadre élévateur ZZ - vue libre	ZH	Hydraulique supplémentaire
gr	gris	PzS	Batterie de plaque cuirassées	ZR	Rouleau/roue jumelés
h1	Hauteur de construction	Ra	Roue	ZT	Double-Télescope
h3	Hauteur d'élévation (HH)	re	droite	Zu	Supplément
HV	Présélection des hauteurs	Rei	Pneu	ZV	Soupape de maintien de pression suppl.
HVZ	Denture angle vif	RH	Rampe élévation	ZZ	Double - à deux lélévation
hy	hydraulique				

Master sheet

Serial no **90309857**

Reg.	listnr.	n	Description
*	50128493	1	Service equipment
*	51051907	1	Spare parts manual
*	51051911	1	Operating instructions, ES
*	51092969	1	Parts/Operating CD
A	50251215	1	Handle
A	50464037	1	Back pad
A	51009021	1	Hood, Battery
A	51009021	1	Hood, Battery
A	51009026	1	Mounting parts, Battery hood
A	51022940	1	Toggle-type fastener
A	51022940	1	Toggle-type fastener
A	51027243	1	Standing platform
A	51033616	1	Casing
A*	51034341	1	Chassis, Truck
A	51034489	1	Labels
A	51043204	1	Backrest
A	51046797	1	Cover
A	51048401	1	Standing platform, assy.
A	51049574	1	Front hood
A	51049606	1	Hood, Battery
B	51024508	1	Transmission
B	51109507	1	Motor, Traction
B	51109513	1	Drive Traction
B	51109514	1	Drive Traction
D	51035045	1	Brake-Spring pressure

Master sheet

Serial no **90309857**

Reg.	listnr.	n	Description
E	50307935	2	Load wheel-Tandem
E	50460100	1	Wheel-Drive
E	51046973	1	Wheel, Supporting
E	51054750	1	Wheel, Supporting
F	50463706	2	Controller
F	51024509	1	Motor, Electric
F	51035319	1	Unit, Steering
F	51035331	1	Steering wheel seat
G	50011024	1	Cylinder, Lift
G	50130194	1	Connection group
G	51022560	1	Cylinder, Lift
G	51022561	1	Cylinder, Lift
G	51024395	1	Connect. elem., Hoisting system
G	51024405	1	Frame, Load
G	51024713	1	Mounting parts
G	51050188	1	Pull rod
I	51006444	1	Hydr. Unit
I	51025952	1	System, Hydraulic
J	28526100	1	Key switch
J	28526100	1	Key switch
J*	50439129	1	Horn
J	51011851	1	Plate, Mounting Electrics
J	51011855	1	Mounting parts, Electrical
J	51011965	1	Instrument hood
J	51011965	1	Instrument hood

Master sheet

Serial no

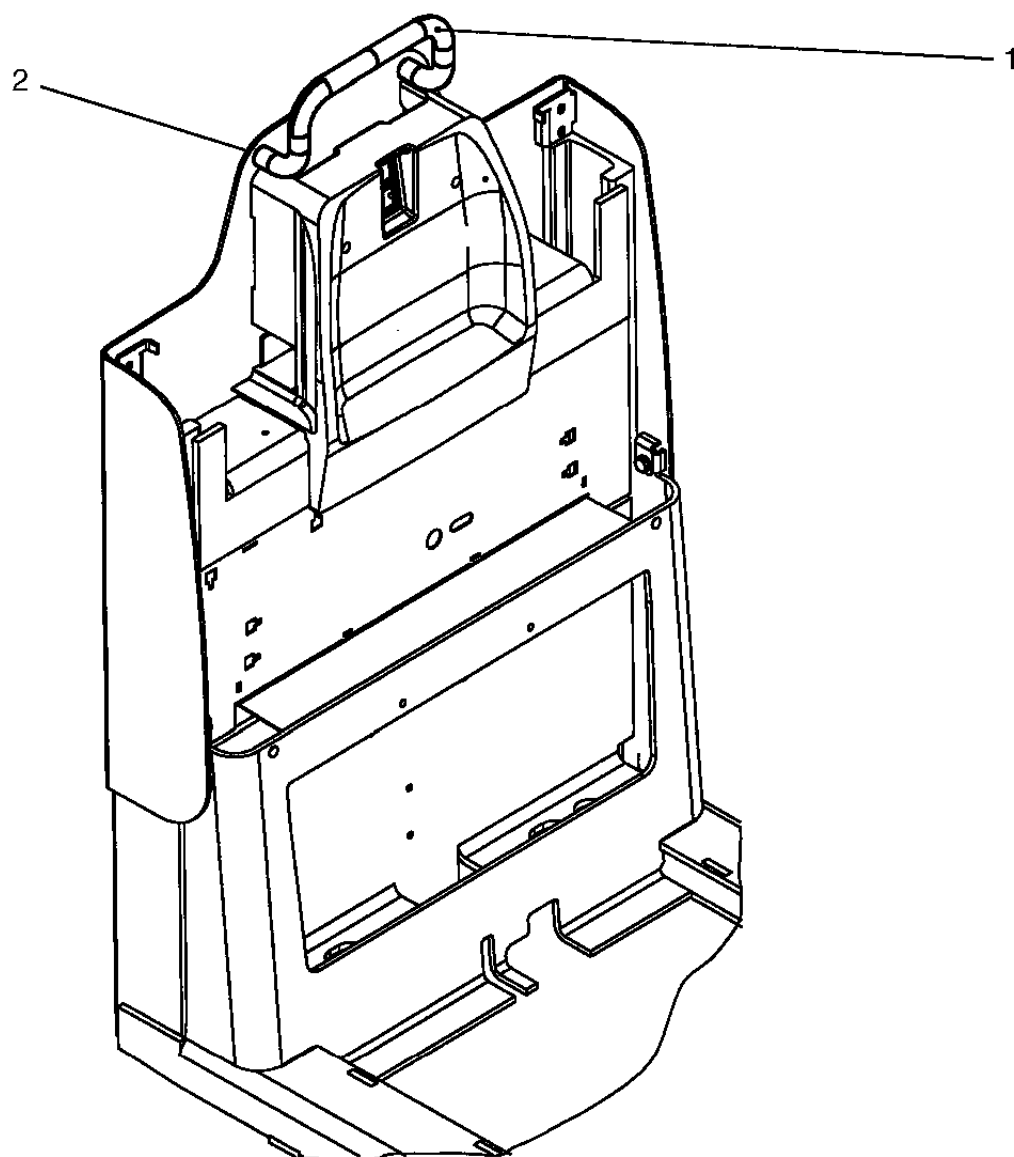
90309857

Reg.	listnr.	n	Description
J	51022302	1	Cut-off, Hoisting
J	51033982	1	Connection group
J	51044789	1	Sensor unit
J	51052516	1	Instrument hood
J	51081752	1	Cut-Off, Lift
K	51032424	1	Battery safety device
K	51050763	1	Battery accessories
L*	50146593	1	Parameter file, battery
L*	50146597	1	Parameter file
L*	51035216	1	Software, CANDIS
L*	51051119	1	Parameter file
L*	51084816	1	Software, Driving
L*	51093611	1	Software, Steering system
L*	51093612	1	Software, Steering system

Handle

022353

50251215
02/02
081206 00 1



Handle	50251215 02/02 081206 00 2
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Item	n	Order-Nr.	Description
1	1	50251215	Handle
2	2	50308010	Handle
		50251303	Screw

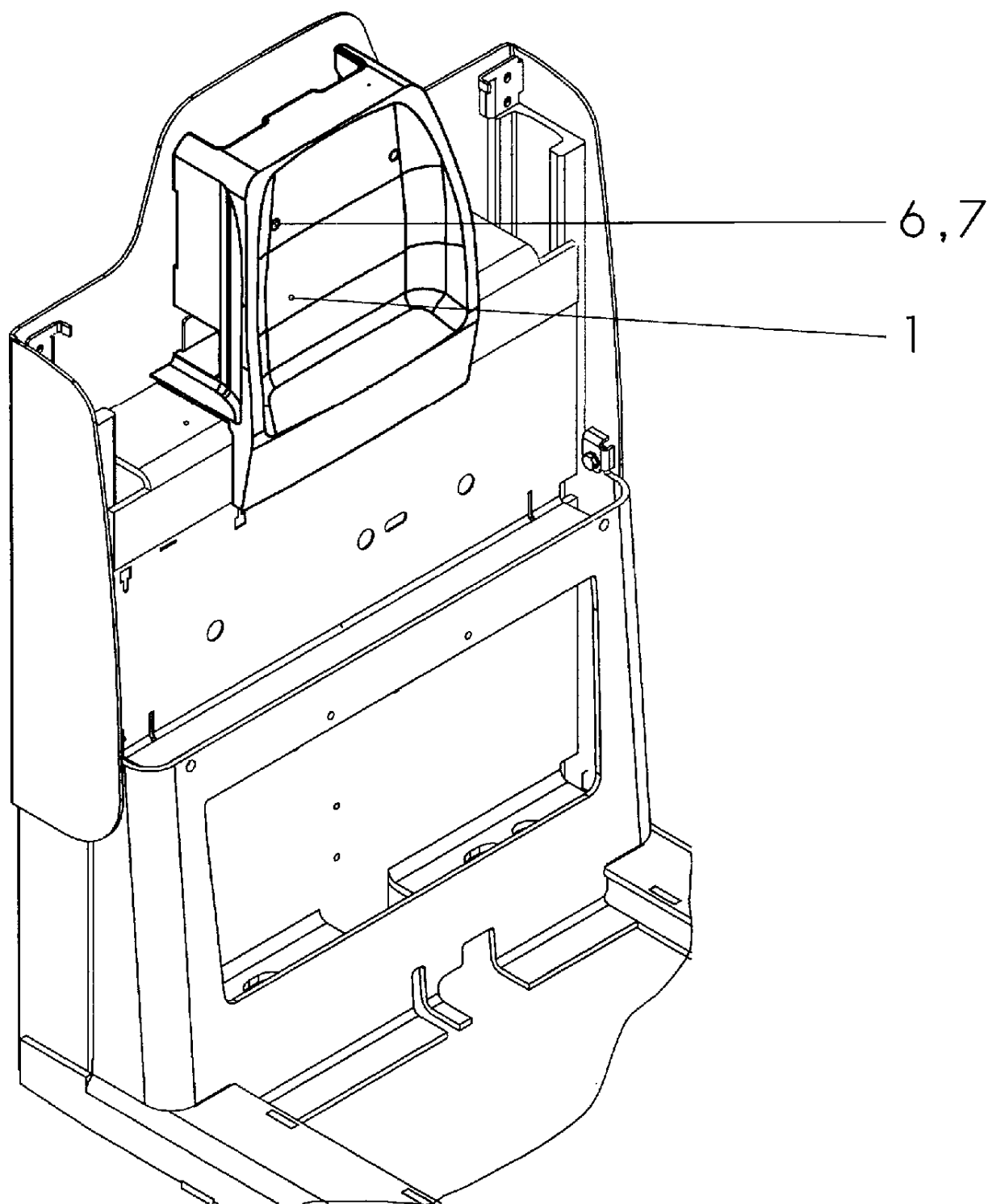
Back pad

044627

50464037

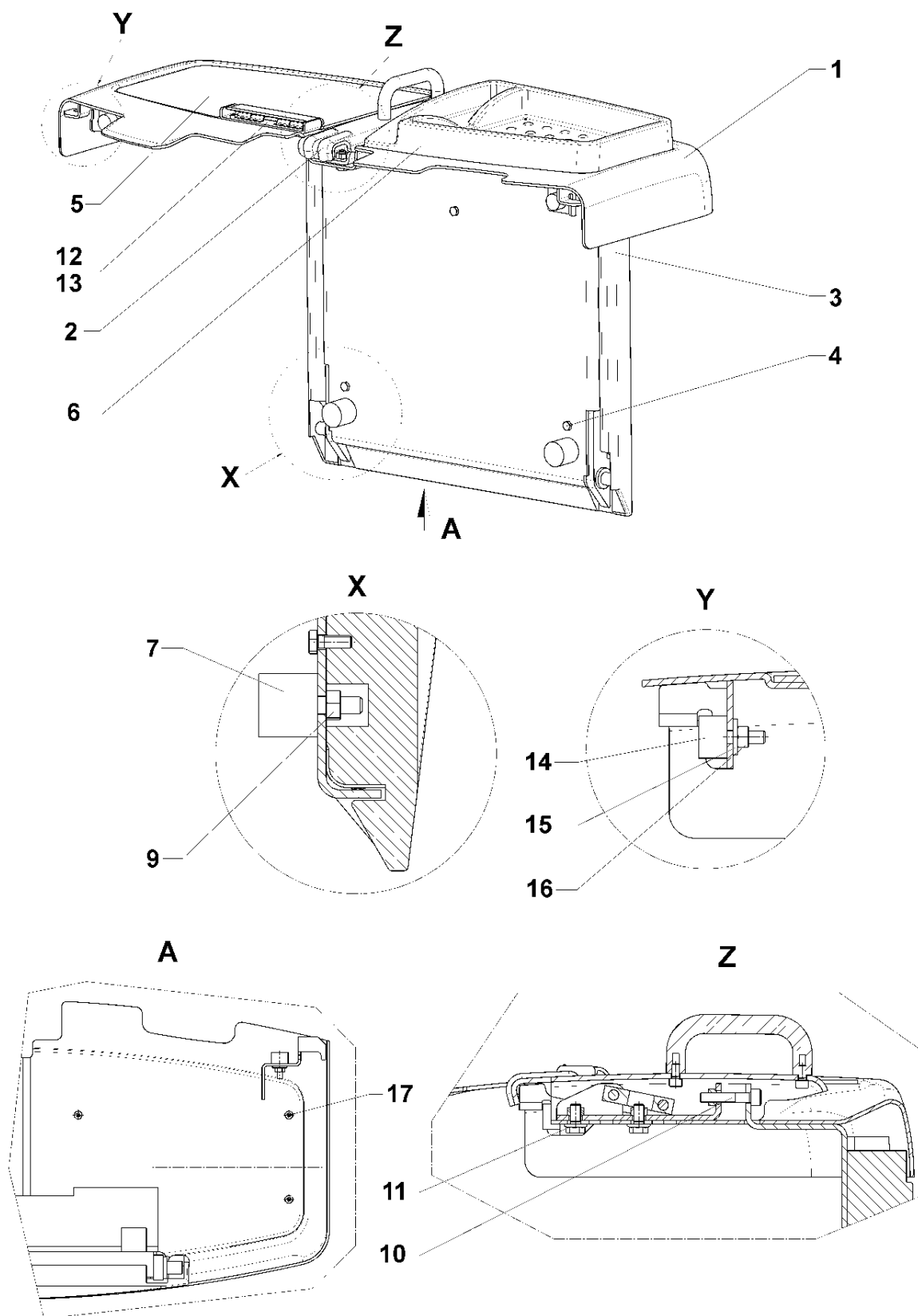
05/05

081206 00 1



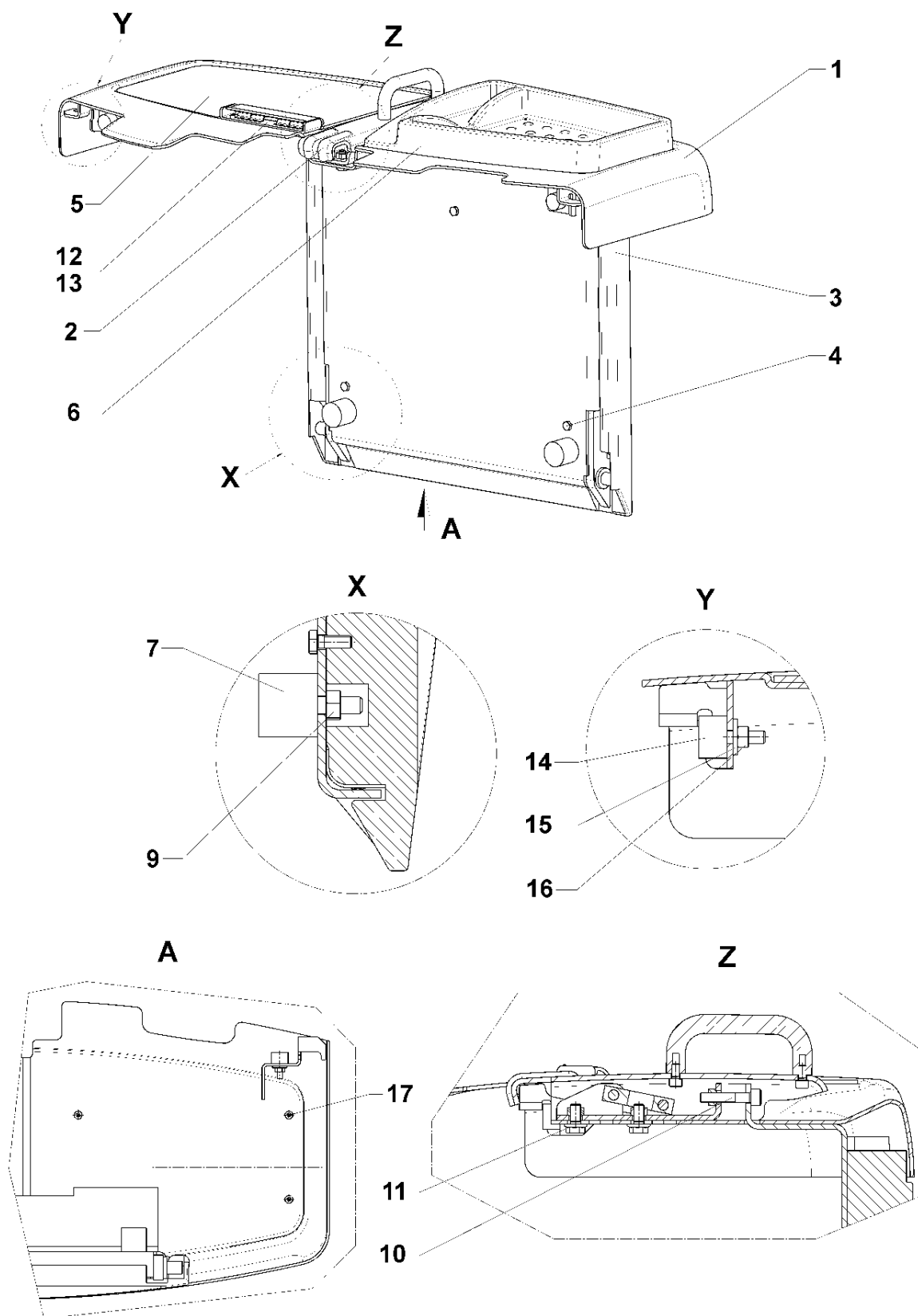
Back pad	50464037 05/05 081206 00 2
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Item	n	Order-Nr.	Description
	1	50464037	Back pad
1	1	50459787	Back pad
6	2	24202420	Screw
7	2	25303040	Nut



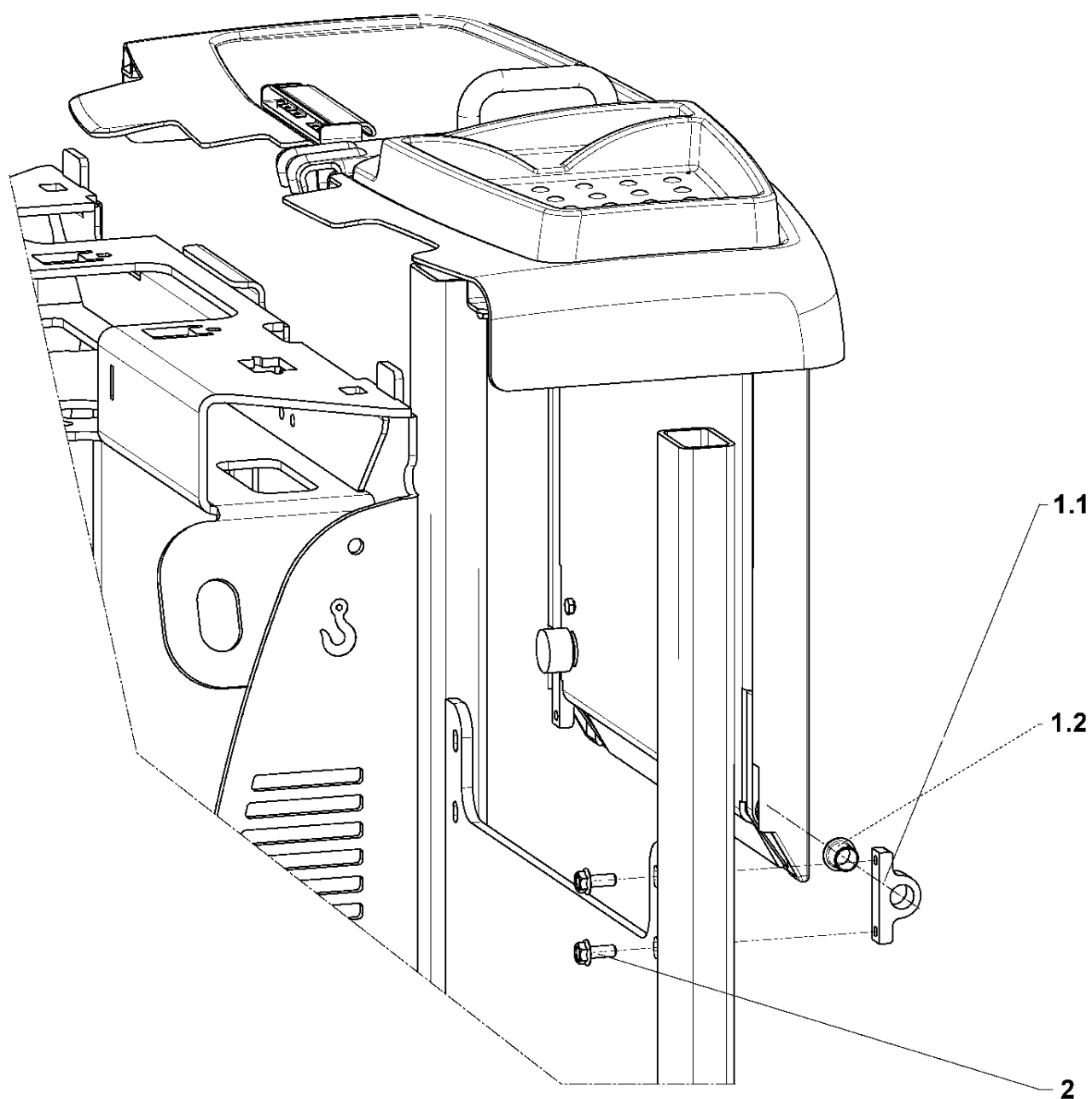
Hood, Battery	RAL1028	51009021 10/06 060907 00 2
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Item	n	Order-Nr.	Description		
	1	51009021	Hood, Battery	RAL1028	RAL1028
			RAL1028	M8	M8
1	1	51031423	Bonnet	M6	M6
2	1	51022940	Toggle-type fastener		
3	1	51009439	Cushion		
4	3	24202420	Screw		
5	1	51039128	Mat		
6	1	51033649	Box, Utility		
7	2	50424241	Megi-buffer		
9	2	25301090	Nut		
10	1	24202890	Screw		
			M8		
11	2	26102330	Screw		
12	1	51009437	Block, Terminal		
13	2	24403700	Screw		
14	2	27000430	Megi-buffer		
15	2	25500830	Washer		
16	2	25300970	Nut		
			M6		
17	3	50109340	Screw		



Hood, Battery	RAL1028	51009021 10/06 060907 00 2
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Item	n	Order-Nr.	Description		
	1	51009021	Hood, Battery	RAL1028	RAL1028
1	1	51031423	RAL1028	M8	M8
2	1	51022940	Bonnet	M6	M6
3	1	51009439	Toggle-type fastener		
4	3	51009439	Cushion		
5	1	24202420	Screw		
6	1	51039128	Mat		
7	1	51033649	Box, Utility		
8	2	50424241	Megi-buffer		
9	2	25301090	Nut		
10	1	24202890	Screw		
			M8		
11	2	26102330	Screw		
12	1	51009437	Block, Terminal		
13	2	24403700	Screw		
14	2	27000430	Megi-buffer		
15	2	25500830	Washer		
16	2	25300970	Nut		
			M6		
17	3	50109340	Screw		



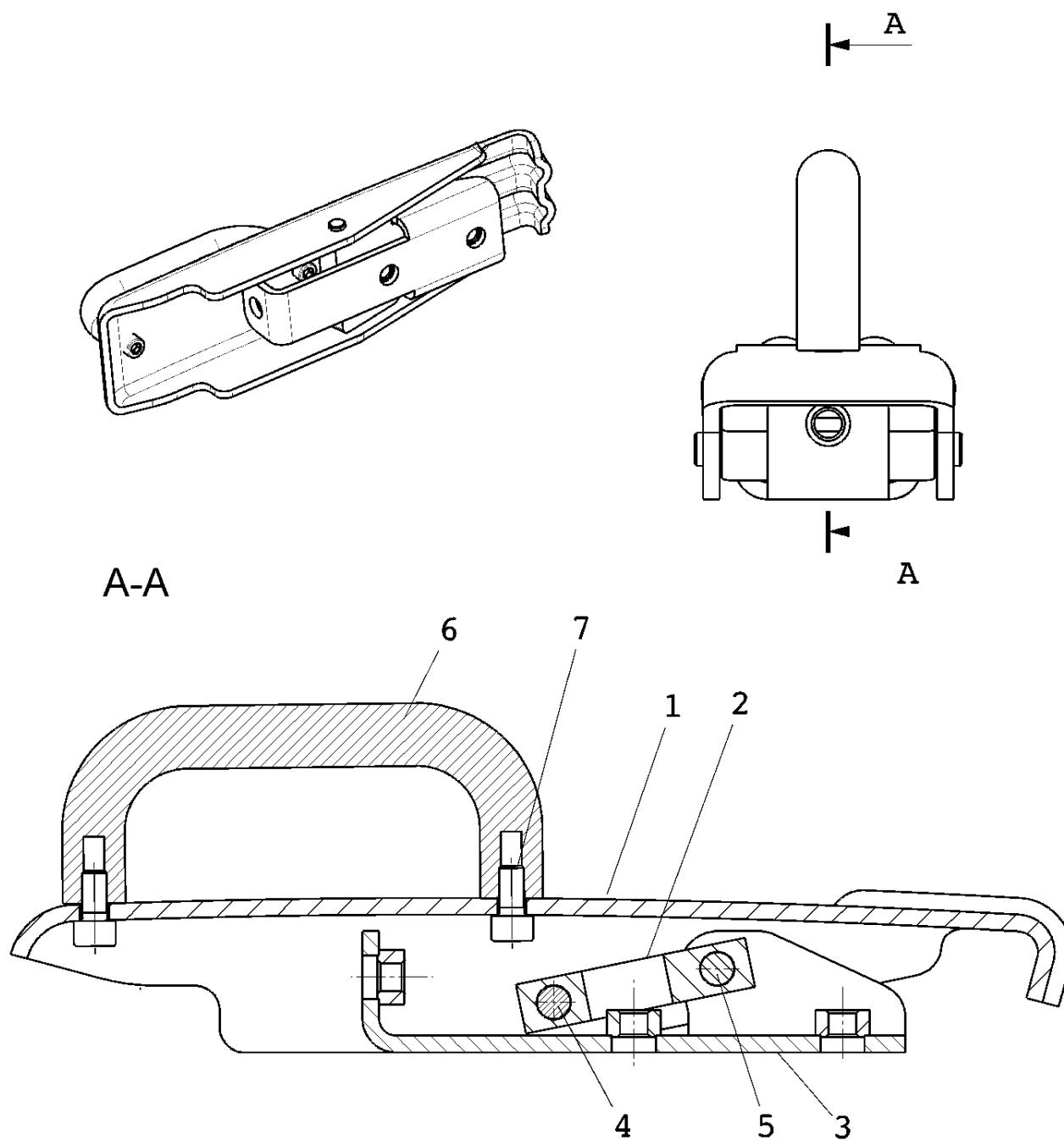
Mounting parts, Battery hood	51009026 09/06 030507 00 2
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Item	n	Order-Nr.	Description
	1	51009026	Mounting parts, Battery hood
1	2	-	Mounting parts
1.1	2	51009032	Bearing pedestal
1.2	2	50115789	Slide bearing
2	4	26102070	Screw

Toggle-type fastener

034605

51022940
09/06
050906 00 1



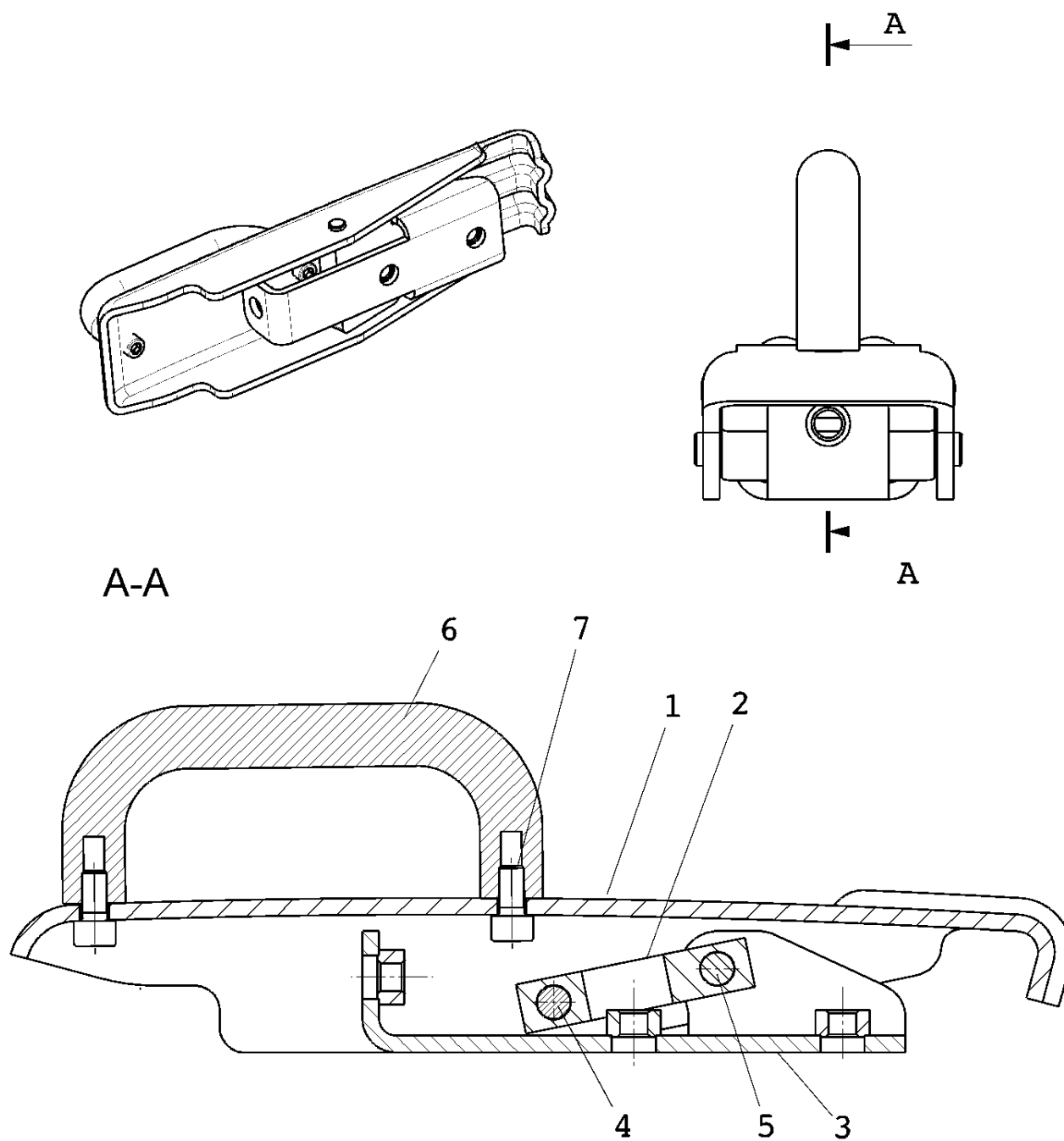
Toggle-type fastener	51022940 09/06 050906 00 2
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Item	n	Order-Nr.	Description		
	1	51022940	Toggle-type fastener	M6x12	M6x12
1	1	51022913	Lever		
2	1	50122557	Joint		
3	1	50122558	Base		
4	1	50274130	Bolt		
5	1	50274131	Bolt		
6	1	50461524	Shackle		
7	2	24201660	Screw M6x12		

Toggle-type fastener

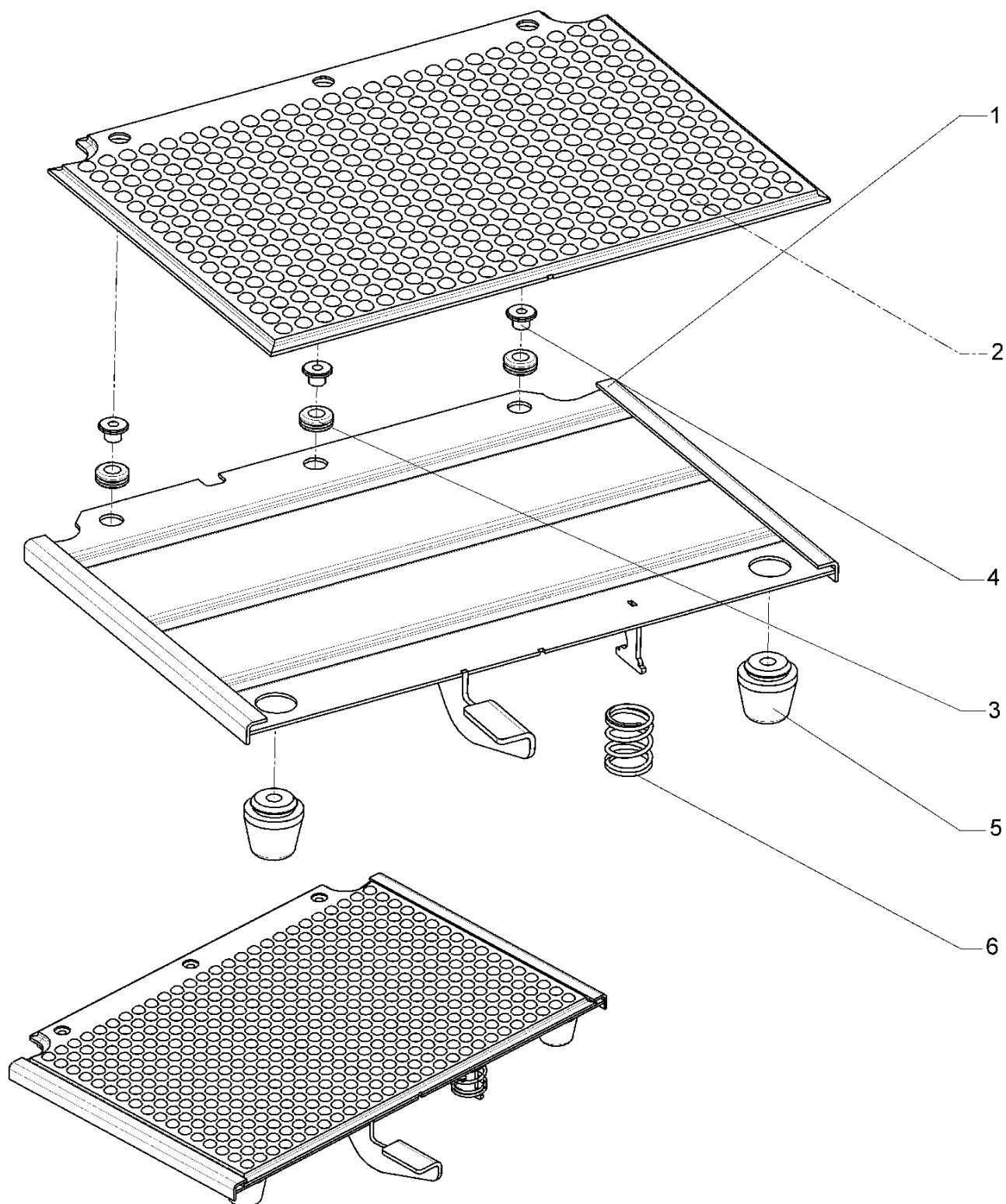
034605

51022940
09/06
050906 00 1



Toggle-type fastener	51022940 09/06 050906 00 2
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Item	n	Order-Nr.	Description		
	1	51022940	Toggle-type fastener	M6x12	M6x12
1	1	51022913	Lever		
2	1	50122557	Joint		
3	1	50122558	Base		
4	1	50274130	Bolt		
5	1	50274131	Bolt		
6	1	50461524	Shackle		
7	2	24201660	Screw M6x12		



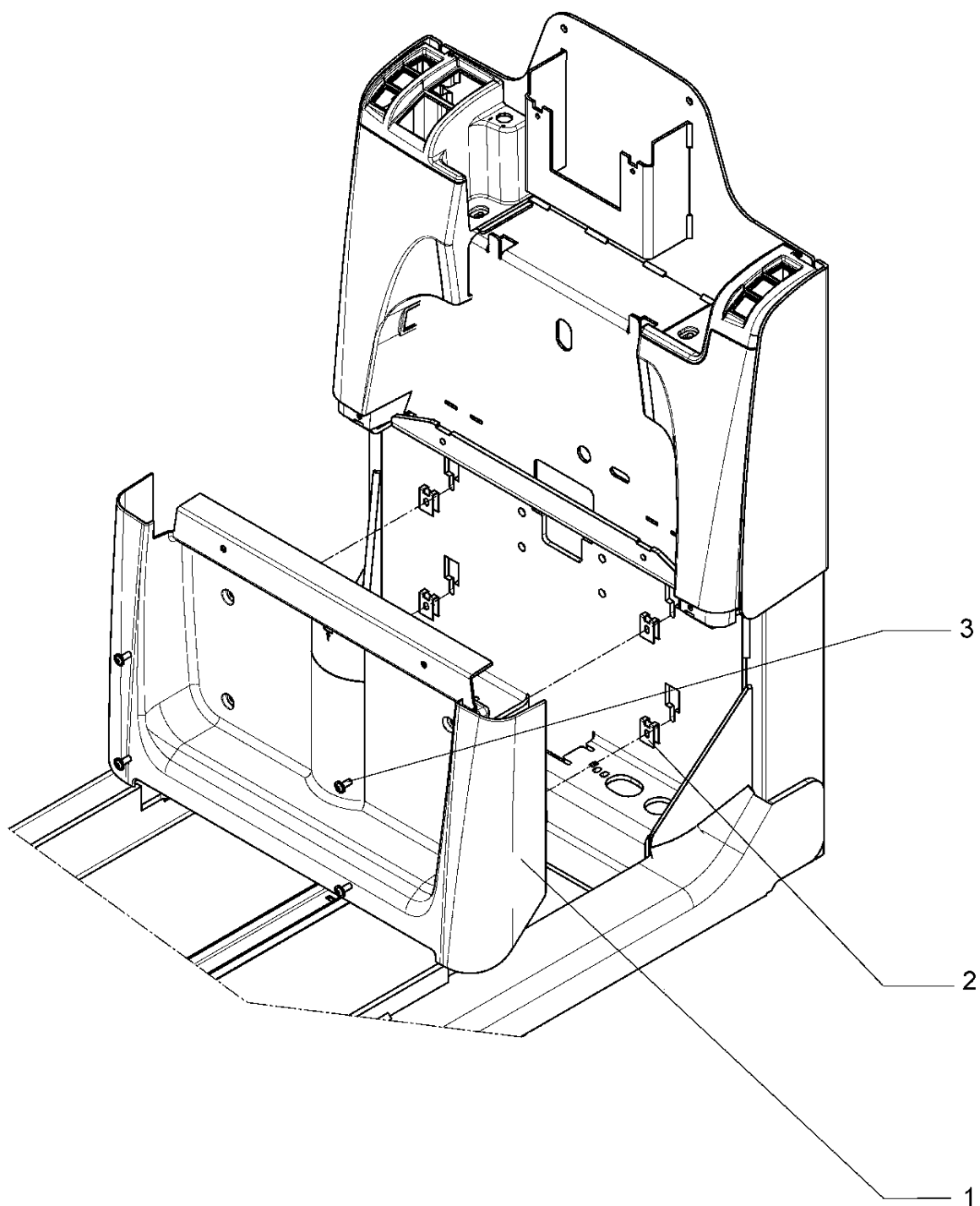
Standing platform	51027243 09/06 201106 00 2
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Item	n	Order-Nr.	Description
	1	51027243	Standing platform
1	1	51035212	Standing platform
2	1	50112516	Mat, Rubber
3	3	50127869	Bush
4	3	50128896	Grommet
5	2	50123089	Stop, Buffer
6	1	51055520	Spring, Compression

Casing

034107

51033616
08/06
260407 00 1



Casing	51033616 08/06 260407 00 2
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Item	n	Order-Nr.	Description
1	1	51033616	Casing
2	4	51043204	Backrest
3	4	51041062	Nut
		50117393	Screw

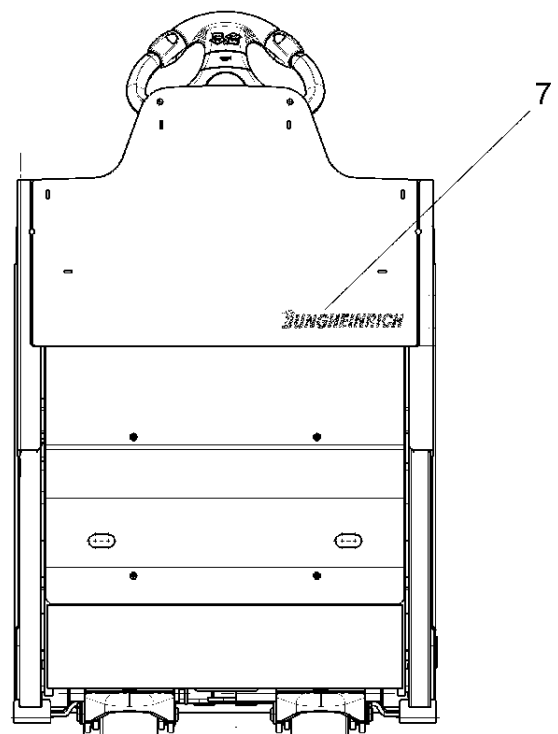
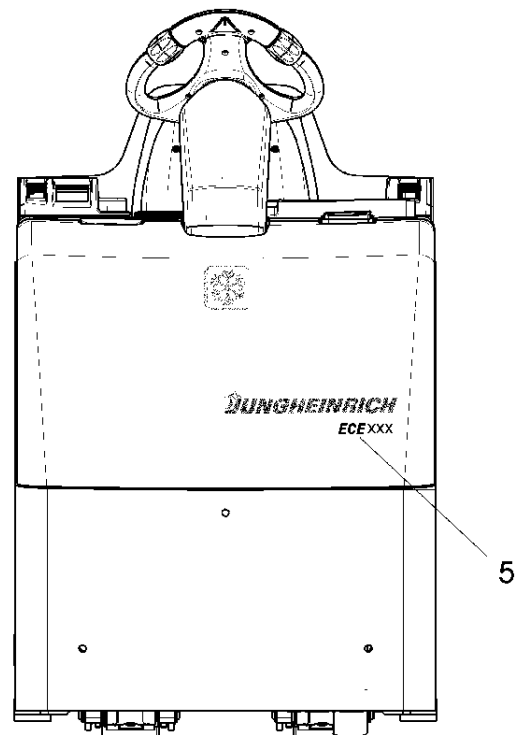
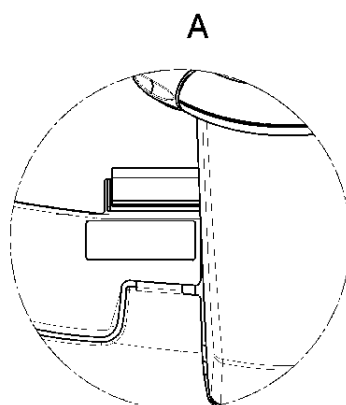
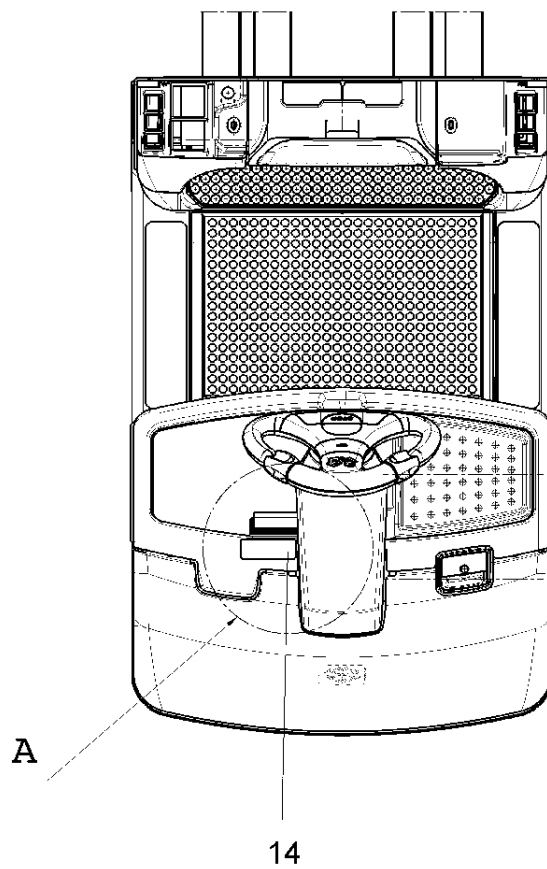
Labels

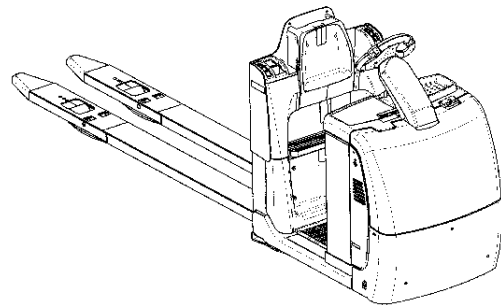
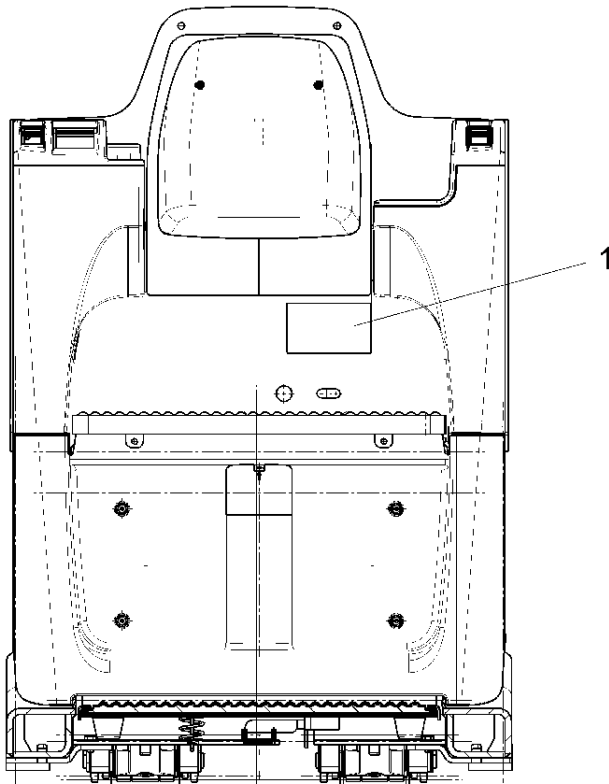
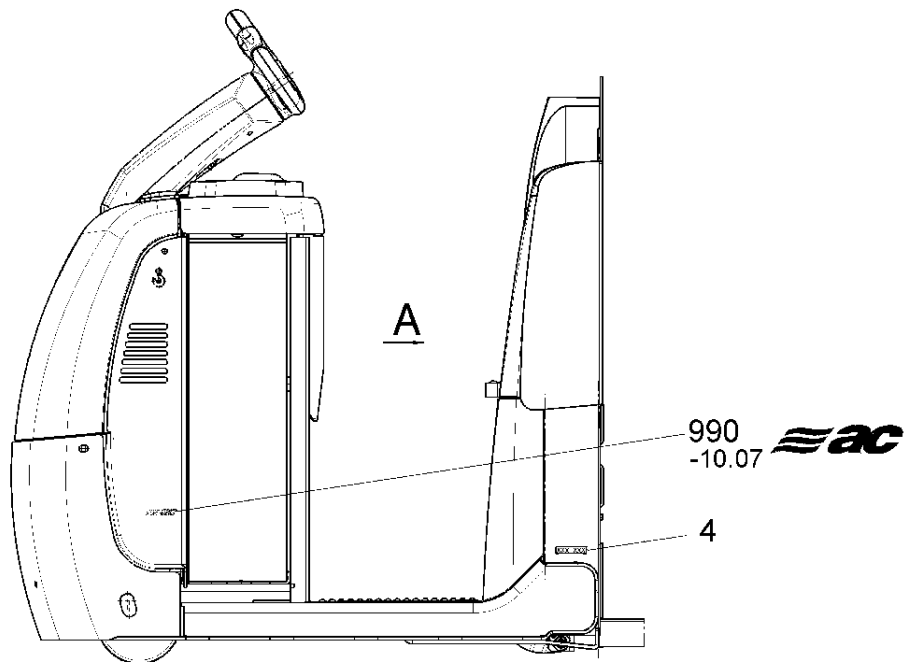
006666

51034489

10/06

301107 00 1





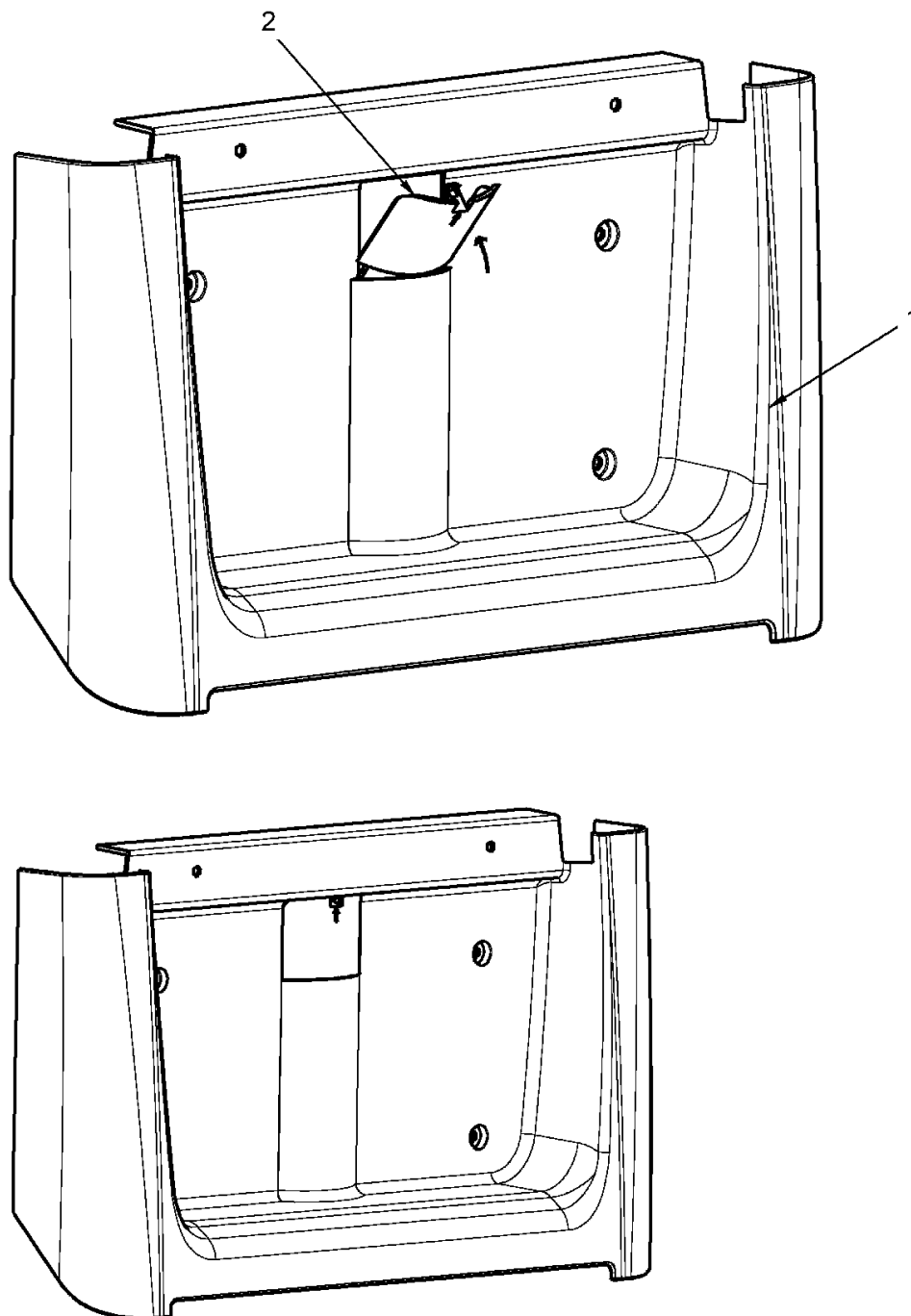
Labels	51034489 10/06 301107 00 3
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Item	n	Order-Nr.	Description
1	1	51034489	Labels
4	1	-	Identification plate
5	1	50428400	Protective foil
7	1	51034487	Label
14	1	51034488	Label
990	2	-	JUNGHEINRICH
		50434864	Label, Load Derating
			Label
			AC

Backrest

034113

51043204
08/06
010806 00 1



Backrest	51043204 08/06 010806 00 2
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Item	n	Order-Nr.	Description
	1	51043204	Backrest
1	1	51027846	Casing
2	1	51042186	Cover

Cover

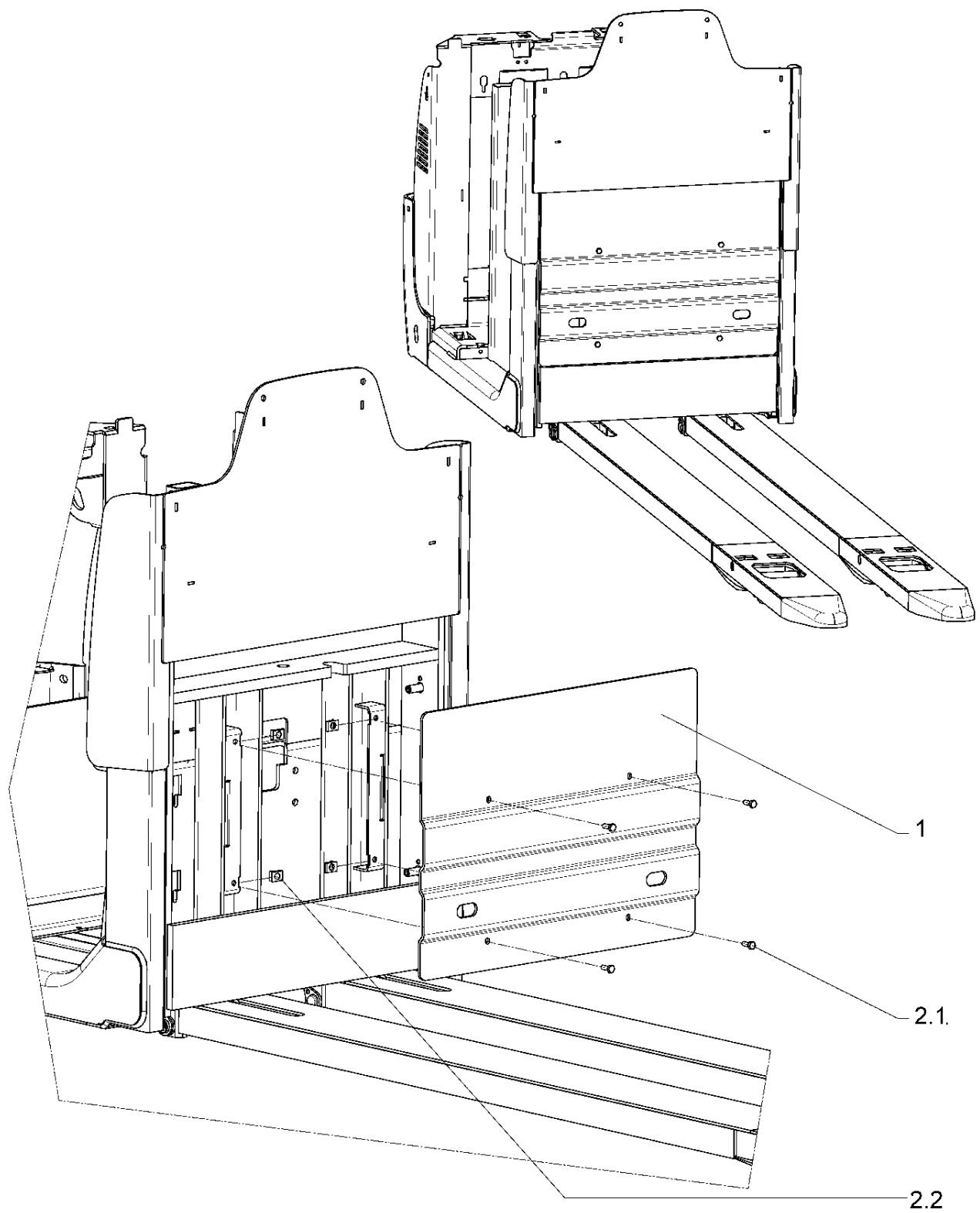
RAL7016

034026

51046797

07/06

270906 00 1



Cover	RAL7016	51046797 07/06 270906 00 2
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Item	n	Order-Nr.	Description
	1	51046797	Cover
1	1	51033457	RAL7016 Cover RAL7016
2	1	-	Mounting parts
2.1	4	24202140	Screw M8x20
2.2	4	26102680	Sheet metal nut

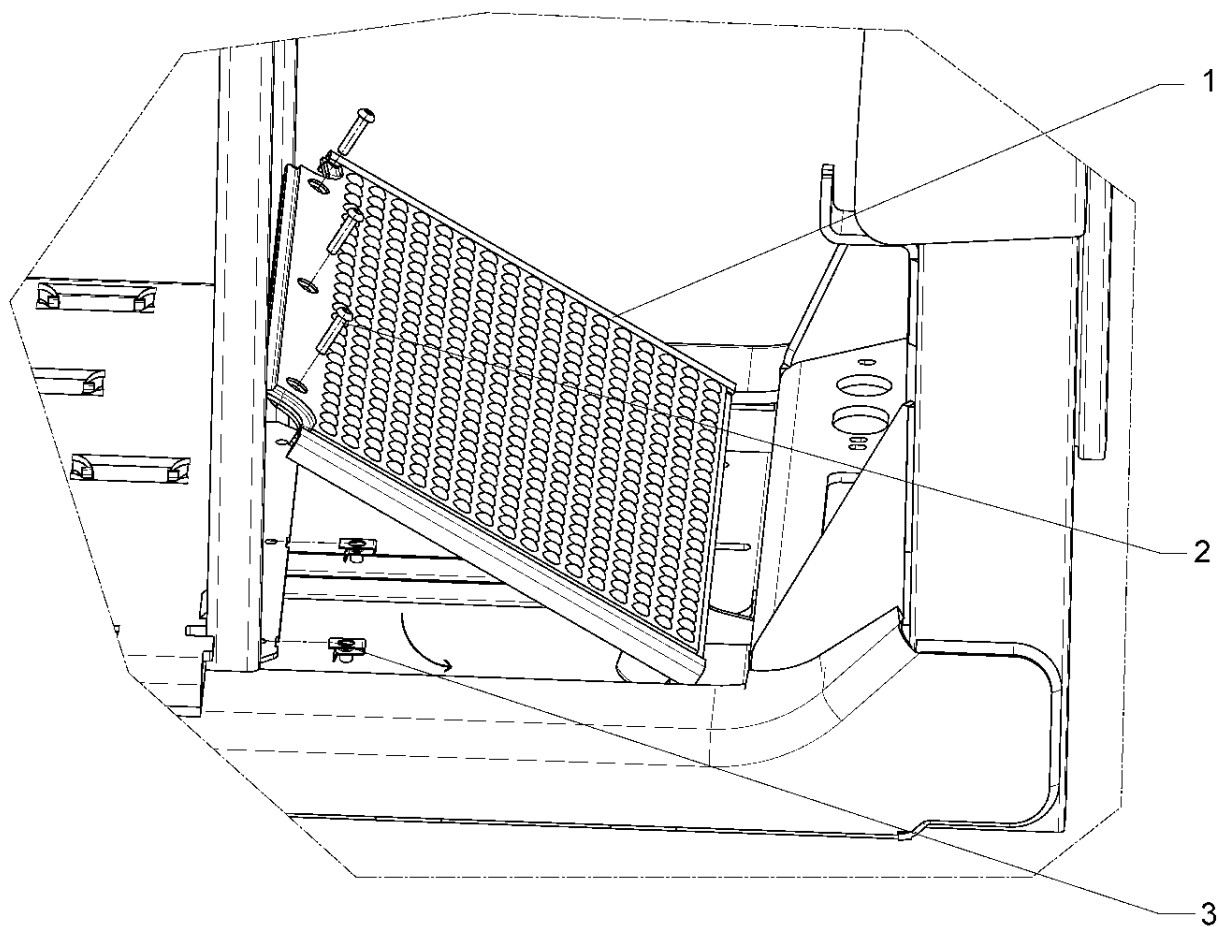
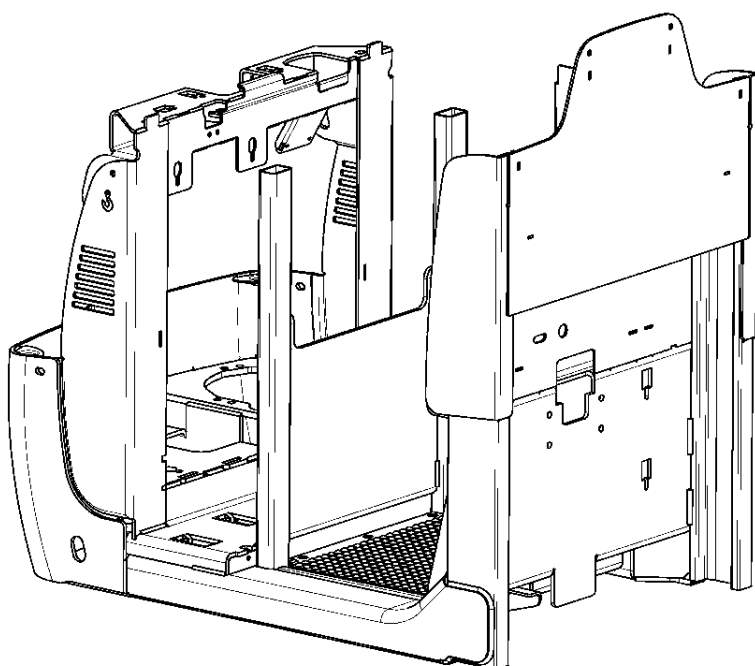
Standing platform, assy.

034134

51048401

08/06

040806 00 1



Standing platform, assy.	51048401 08/06 040806 00 2
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Item	n	Order-Nr.	Description
1	1	51048401	Standing platform, assy.
2	3	51027243	Standing platform
30	3	26102270	Screw
	3	26102680	Sheet metal nut

Front hood

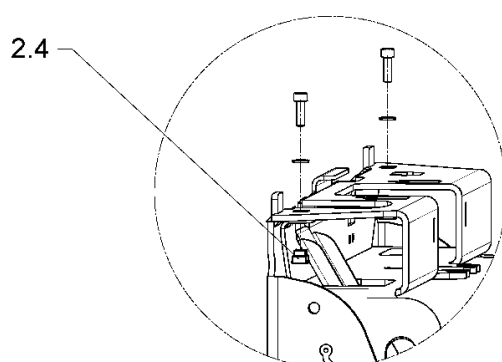
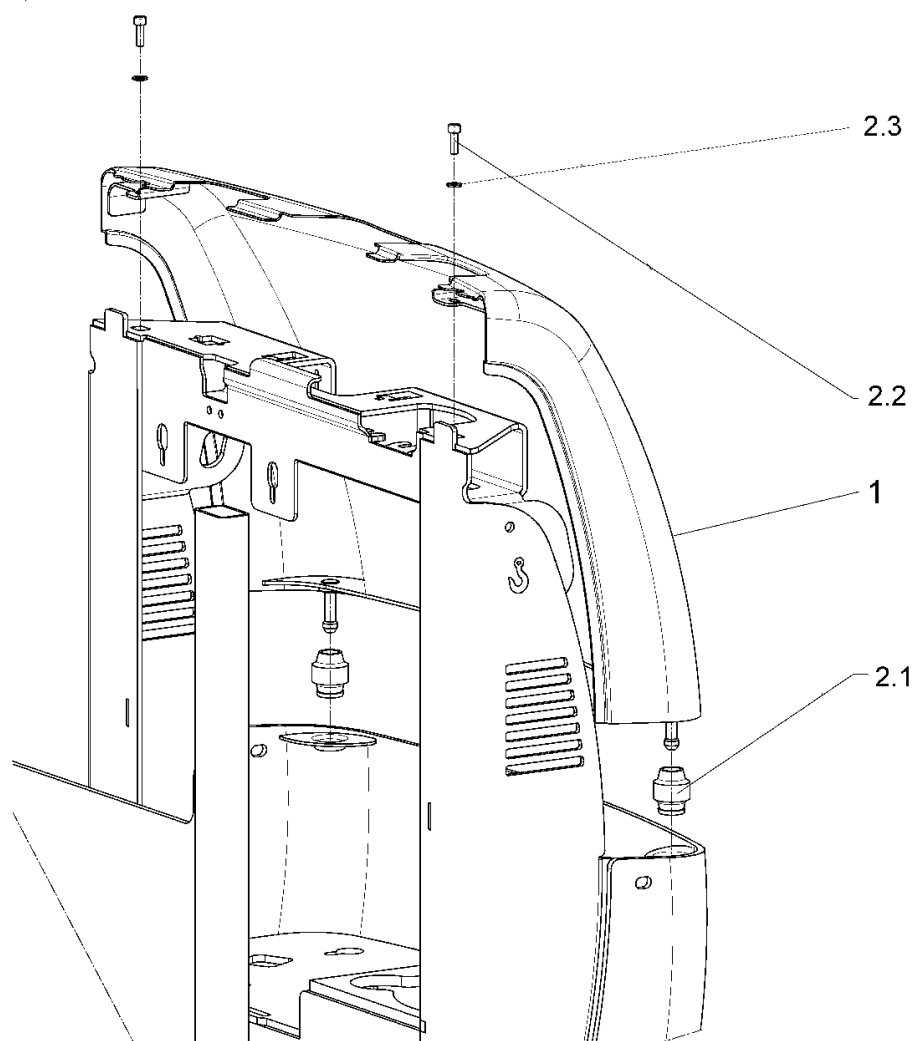
RAL 1028

034689

51049574

09/06

060907 00 1



Front hood	RAL 1028	51049574 09/06 060907 00 2
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Item	n	Order-Nr.	Description
	1	51049574	Front hood
1	1	51010275	RAL 1028 Front hood RAL 1028
2	1	-	Mounting parts, Hoods
2.1	2	51016428	Stop, Buffer
2.2	2	24202010	Screw M8x30
2.3	2	25500790	Washer
2.4	2	50442320	Nut

Hood, Battery

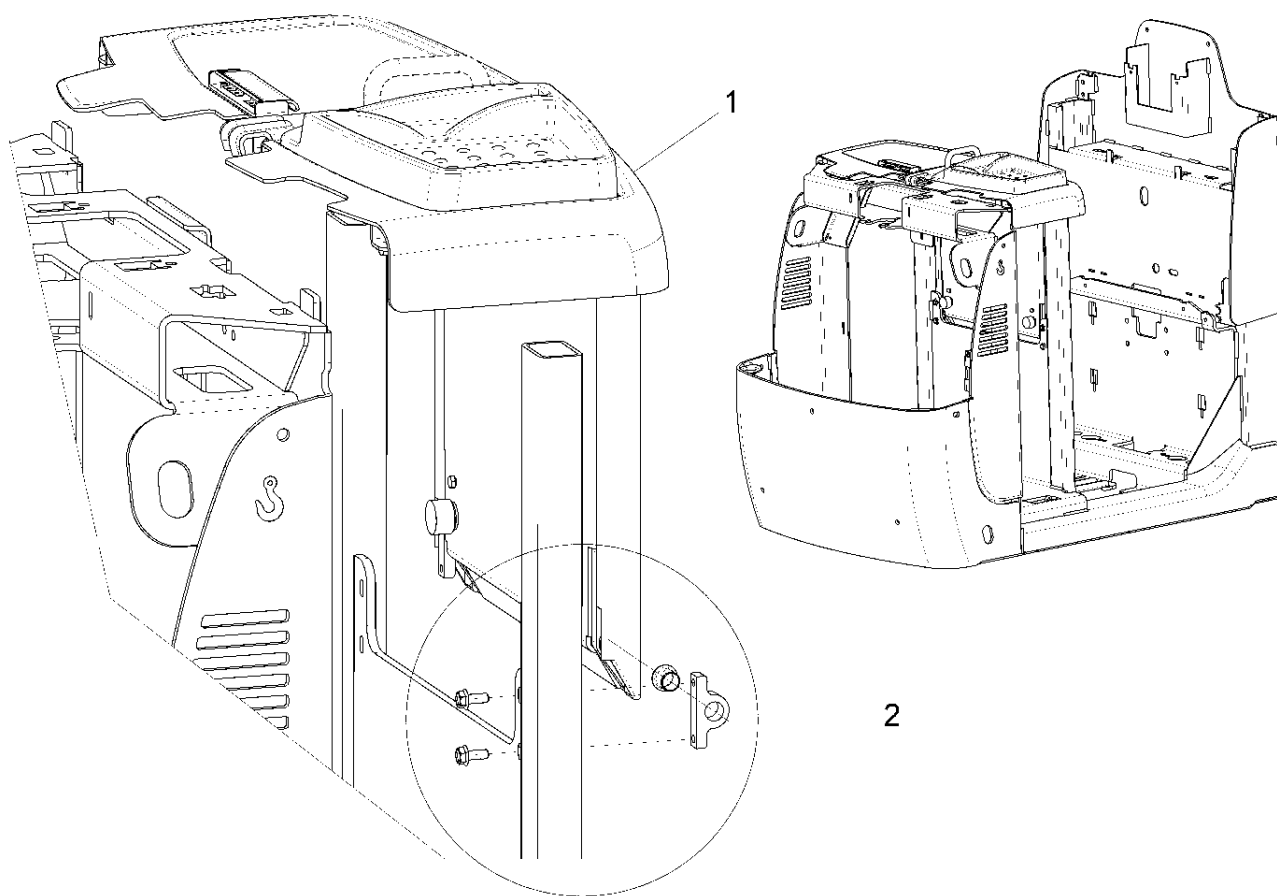
RAL 1028

034672

51049606

09/06

060906 00 1

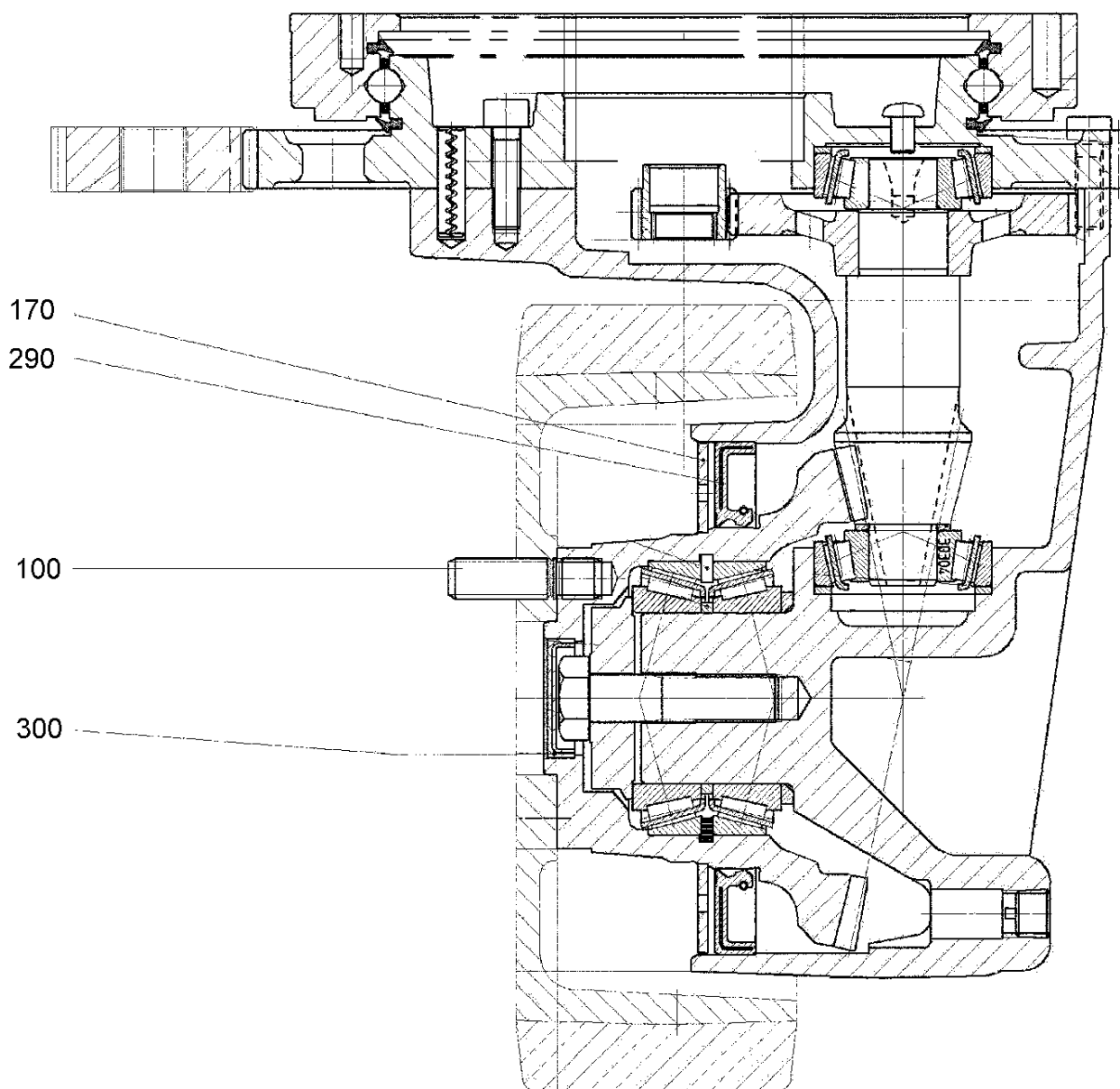


Hood, Battery	RAL 1028	51049606 09/06 060906 00 2
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Item	n	Order-Nr.	Description
	1	51049606	Hood, Battery RAL 1028
1	1	51009021	Hood, Battery RAL1028
2	1	51009026	Mounting parts, Battery hood

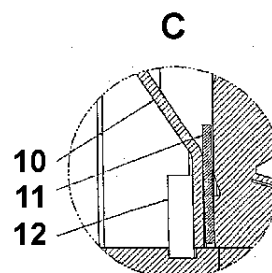
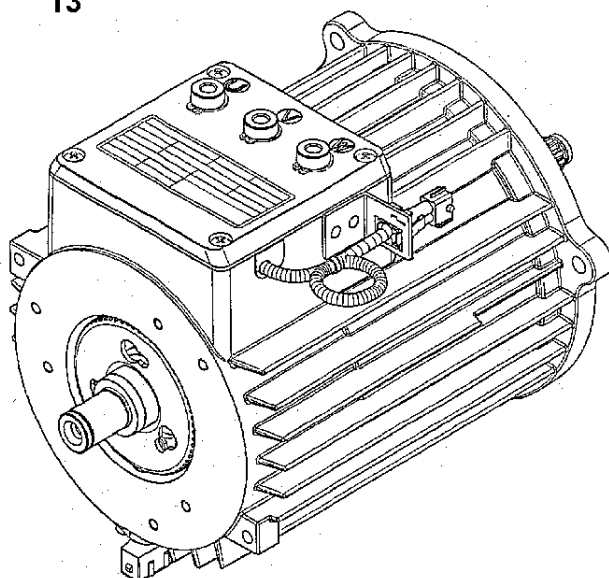
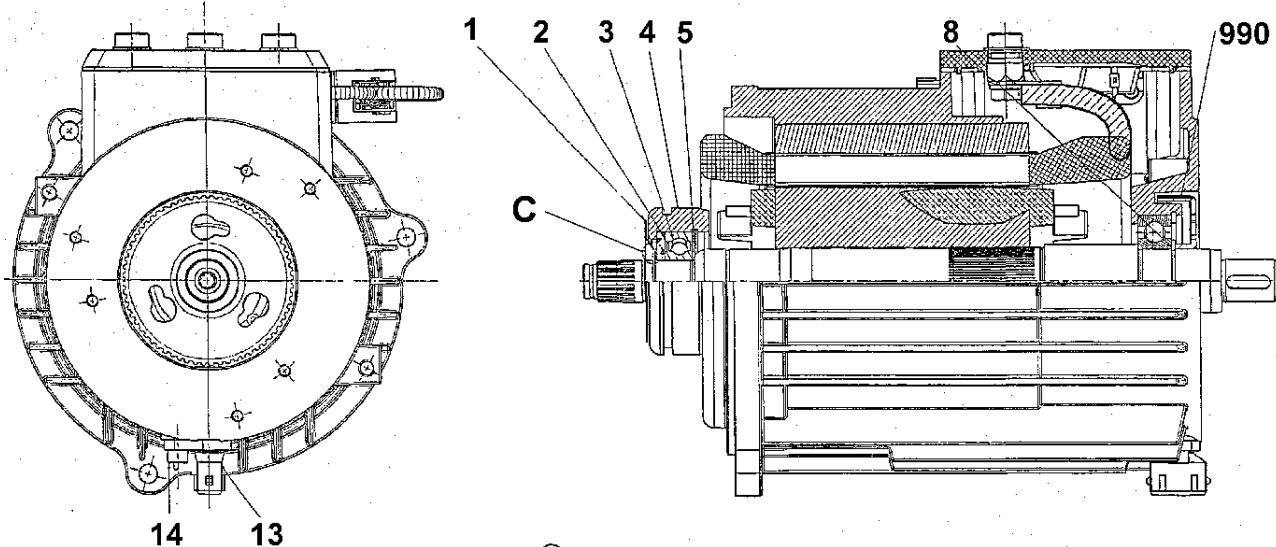
Electric drive unit

B



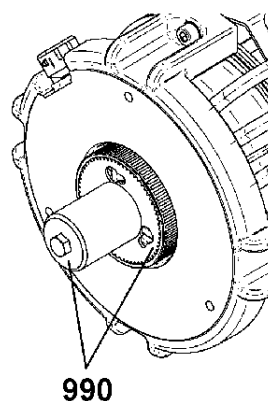
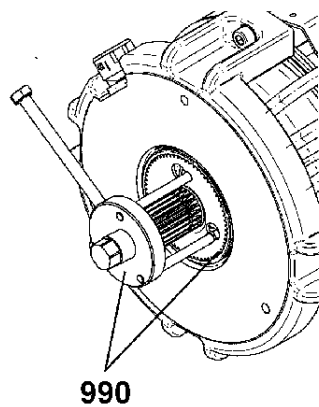
Transmission	i=18,16	51024508 10/06 241006 00 2
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Item	n	Order-Nr.	Description
	1	51024508	Transmission i=18,16
100	5	51058818	Stud, Wheel
170	1	51058816	Protection against threads
290	1	51058822	Ring, Seal
300	1	51058823	Gaiter



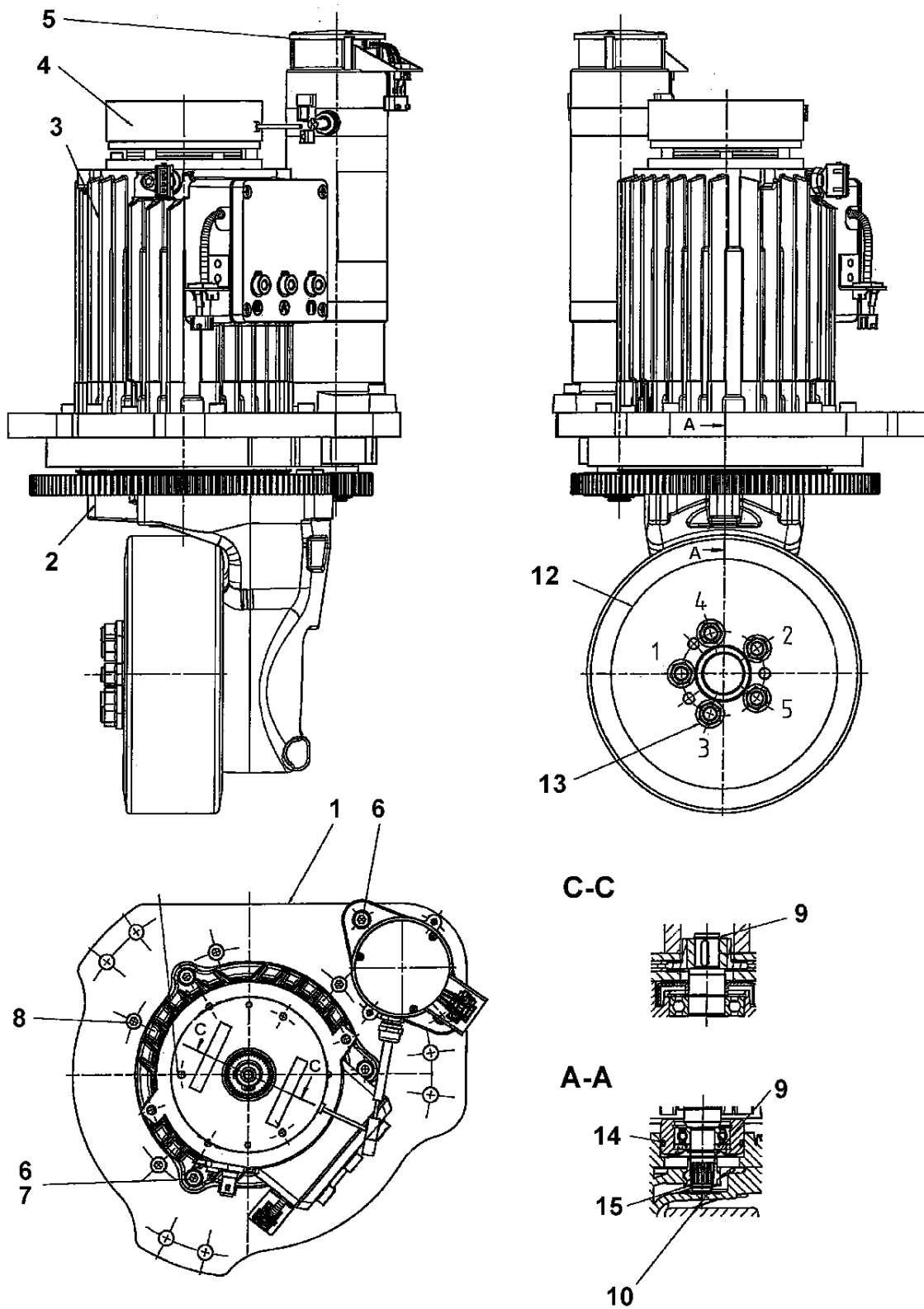
Demontage / removal / démontage

Montage / install / montage



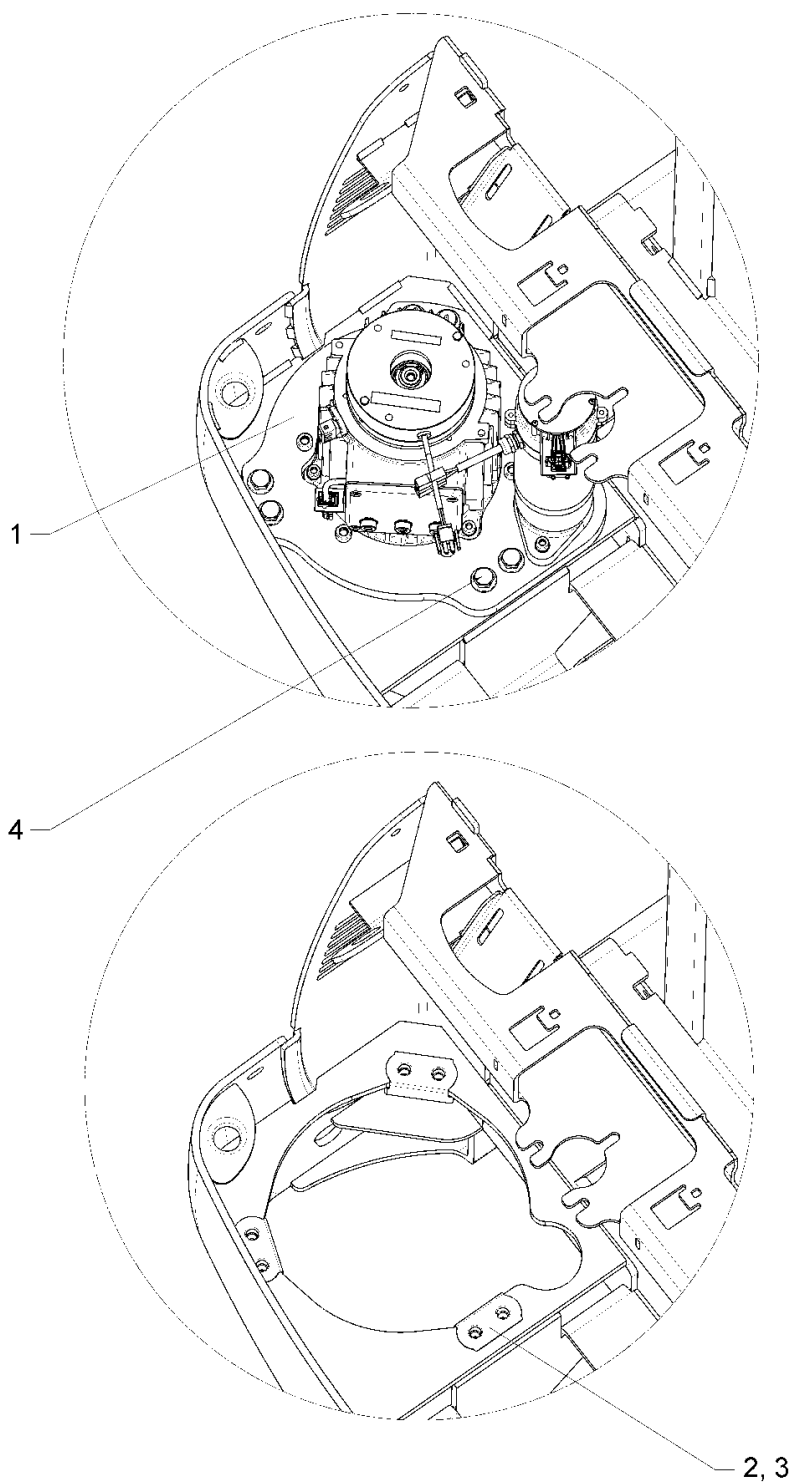
Motor, Traction	51109507 04/08 160408 00 2
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Item	n	Order-Nr.	Description		
	1	51109507	Motor, Traction	BERU	BERU
1	1	43609240	Washer		
2	1	27410800	Nilos-Ring		
3	1	50035128	Ball bearing		
4	1	36177730	Bush		
5	1	26200180	Circlip		
8	1	26200140	Circlip		
10	1	43609240	Washer		
11	1	27003700	Spring, Dished		
12	1	26200010	Circlip		
13	1	51009815	Sensor		
			BERU		
14	1	51103545	Screw		
990	1	51076630	Kit, Repair		



Drive Traction	Vu	51109513 03/08 260308 00 2
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Item	n	Order-Nr.	Description		
	1	51109513	Drive Traction	Vu	Vu
1	1	51022719	Vu	i=18,16	i=18,16
2	1	51024508	Drive support	30Nm	30Nm
			Transmission	24V	24V
3	1	51109507	i=18,16	M8x25	M8x25
4	1	51035045	Motor, Traction	230x77/Vu/Formschl.	230x77/Vu/Formschl.
			Brake-Spring pressure	62x70x4	62x70x4
5	1	51024509	30Nm	16 x 22 x 1,5	16 x 22 x 1,5
			Motor, Electric		
6	5	24201800	24V		
			Screw		
7	3	25601410	M8x25		
8	6	26916144	Lock washer		
9	2	26200010	Screw		
10	1	26201750	Circlip		
11	1	26000060	Circlip		
12	1	50460100	Key, Locating		
			Wheel-Drive		
13	5	50449946	230x77/Vu/Formschl.		
14	1	27400680	Spherical collar nut		
			Seal, O-ring		
15	1	26201880	62x70x4		
			Shim		
			16 x 22 x 1,5		



Drive Traction	24V/Vu	51109514 03/08 260308 00 2
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Item	n	Order-Nr.	Description
	1	51109514	Drive Traction
			24V/Vu
1	1	51109513	Drive Traction
			Vu
2	3	51023005	Plate, Mounting
3	3	51022939	Spring clip
4	6	51024514	Screw

Brake, Assy

D

Brake-Spring pressure

30Nm

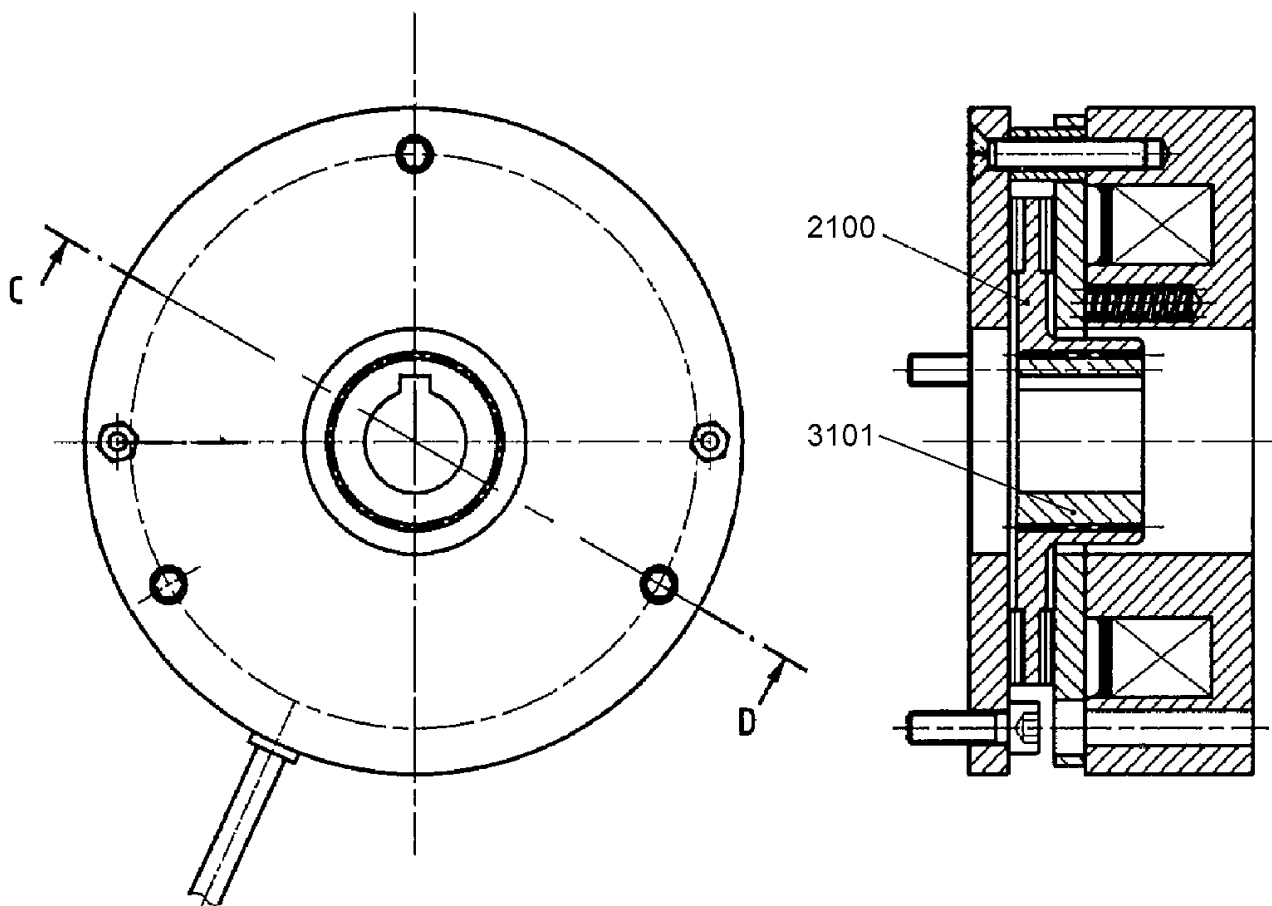
043645

51035045

06/06

130807 00 1

C-D



Brake-Spring pressure	30Nm	51035045 06/06 130807 00 2
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Item	n	Order-Nr.	Description		
	1	51035045	Brake-Spring pressure	30Nm	30Nm
2100	1	50465454	30Nm		
3101	1	50465461	Disc, Brake		
			Hub		

Wheels / Axis

E

Load wheel-Tandem

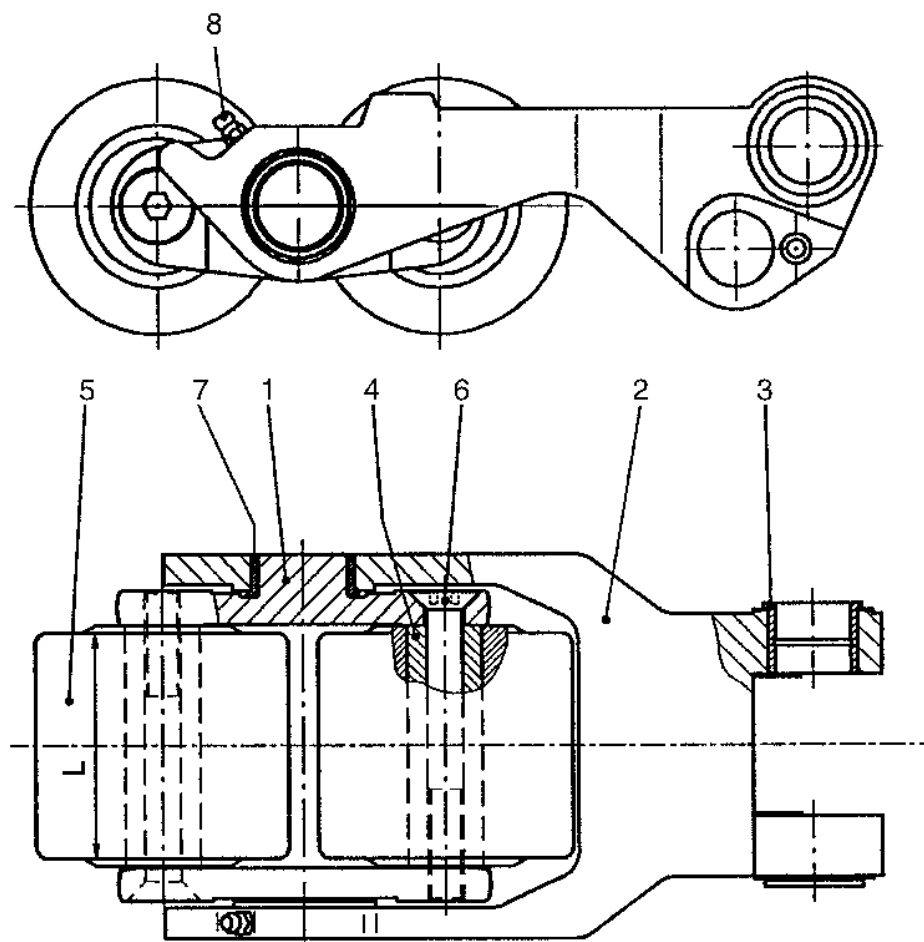
D=85X85/Formschluss

005019

50307935

01/03

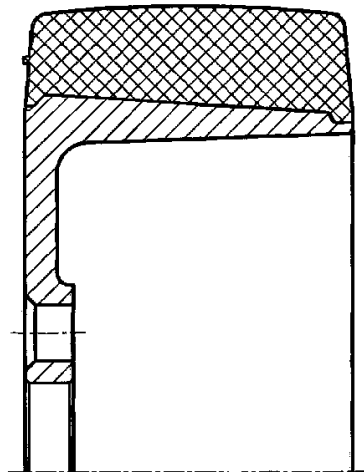
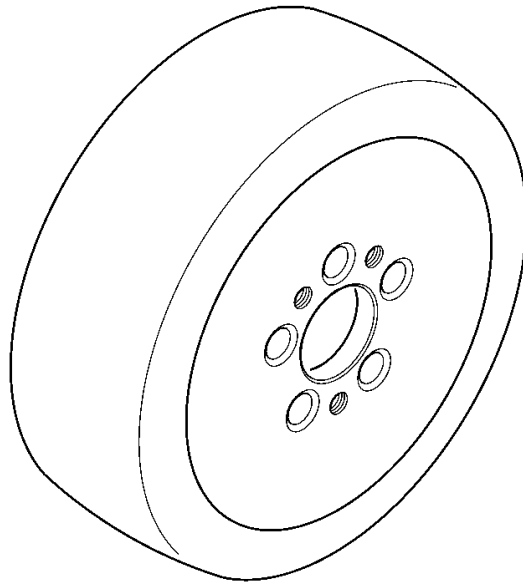
280807 00 1



Load wheel-Tandem	D=85X85/Formschluss 50307935 01/03 280807 00 2
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Item	n	Order-Nr.	Description
	1	50307935	Load wheel-Tandem D=85X85/Formschluss
1	2	48122520	Balance
2	1	50009292	Lever, Wheel arm
3	2	36179410	Bush
4	2	50009700	Tube, Axle
5	2	50307456	Load wheel
6	2	51059153	Screw
7	2	50029395	Slide bearing
8	2	27200010	Nipple, Lubricating

Wheel-Drive	230x77/Vu/Formschl. 024800	50460100 01/05 220605 00 1
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Wheel-Drive	230x77/Vu/Formschl.	50460100 01/05 220605 00 2
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Item	n	Order-Nr.	Description
	1	50460100	Wheel-Drive 230x77/Vu/Formschl. 230x77/Vu/Formschl. 230x77/Vu/Formschl.

Wheel, Supporting

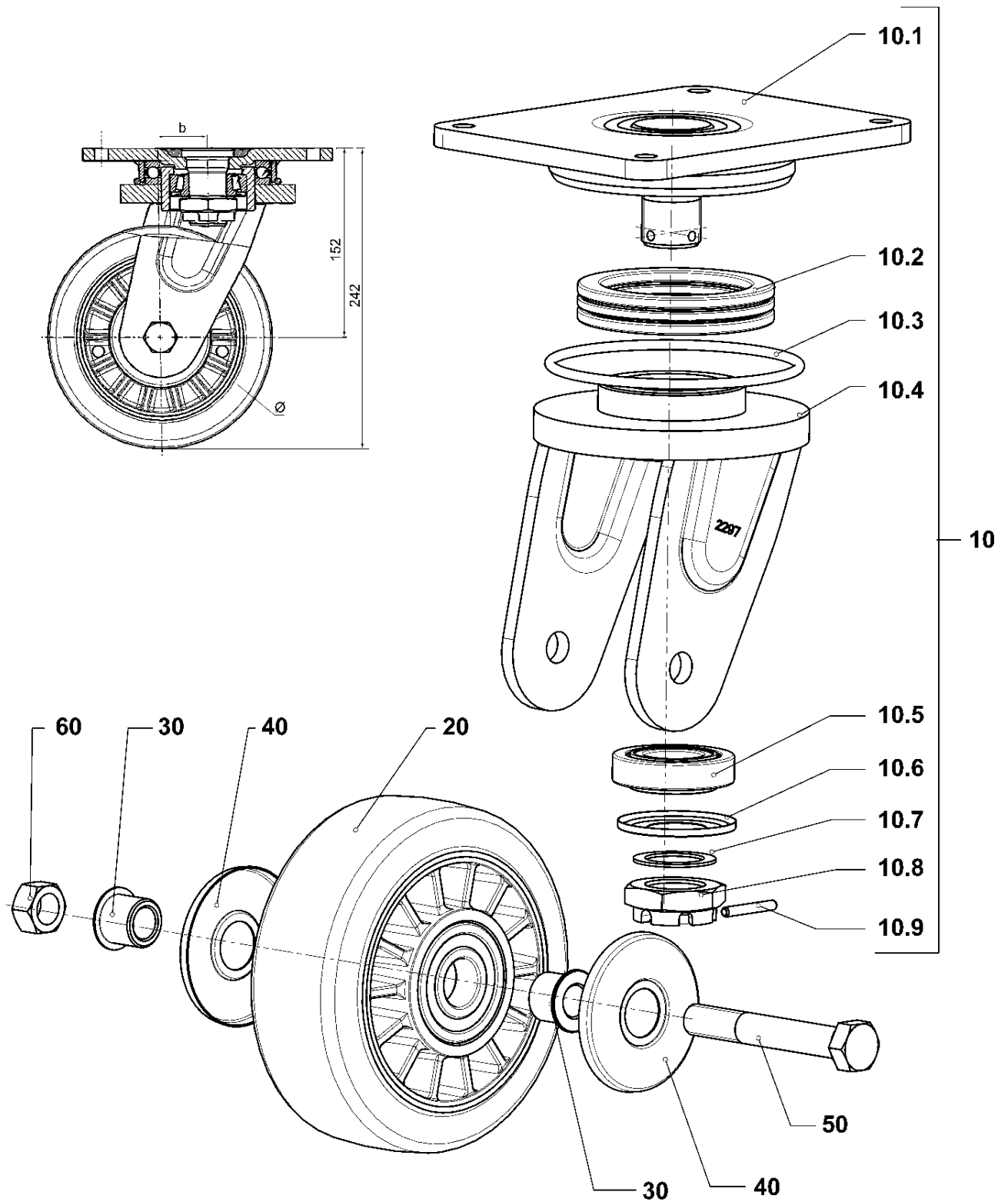
□180/B=40/H=152

034841

51046973

09/06

130207 00 1



Wheel, Supporting	□180/B=40/H=152 51046973 09/06 130207 00 2
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Item	n	Order-Nr.	Description
	1	51046973	Wheel, Supporting Ø=180/B=40/H=152 D=180 Ø=180/B=40/H=152 D=180
10	1	51056436	Fork, Steering
10.1	1	51056433	Plate, Bottom
10.2	1	26403720	Ball bearing
10.3	1	51056430	Seal, O-ring
10.4	1	51056426	Fork, Steering
10.5	1	26500020	Roller bearing
10.6	1	51056425	Nilos-Ring
10.7	1	51056422	Washer
10.8	1	51056421	Nut
10.9	1	51056420	Pin, Hollow Spring
20	1	51056244	Wheel
			D=180
30	2	50044369	Bush
40	2	51056389	Protection against threads
50	1	50044371	Screw
60	1	51011937	Lock nut

Wheel, Supporting

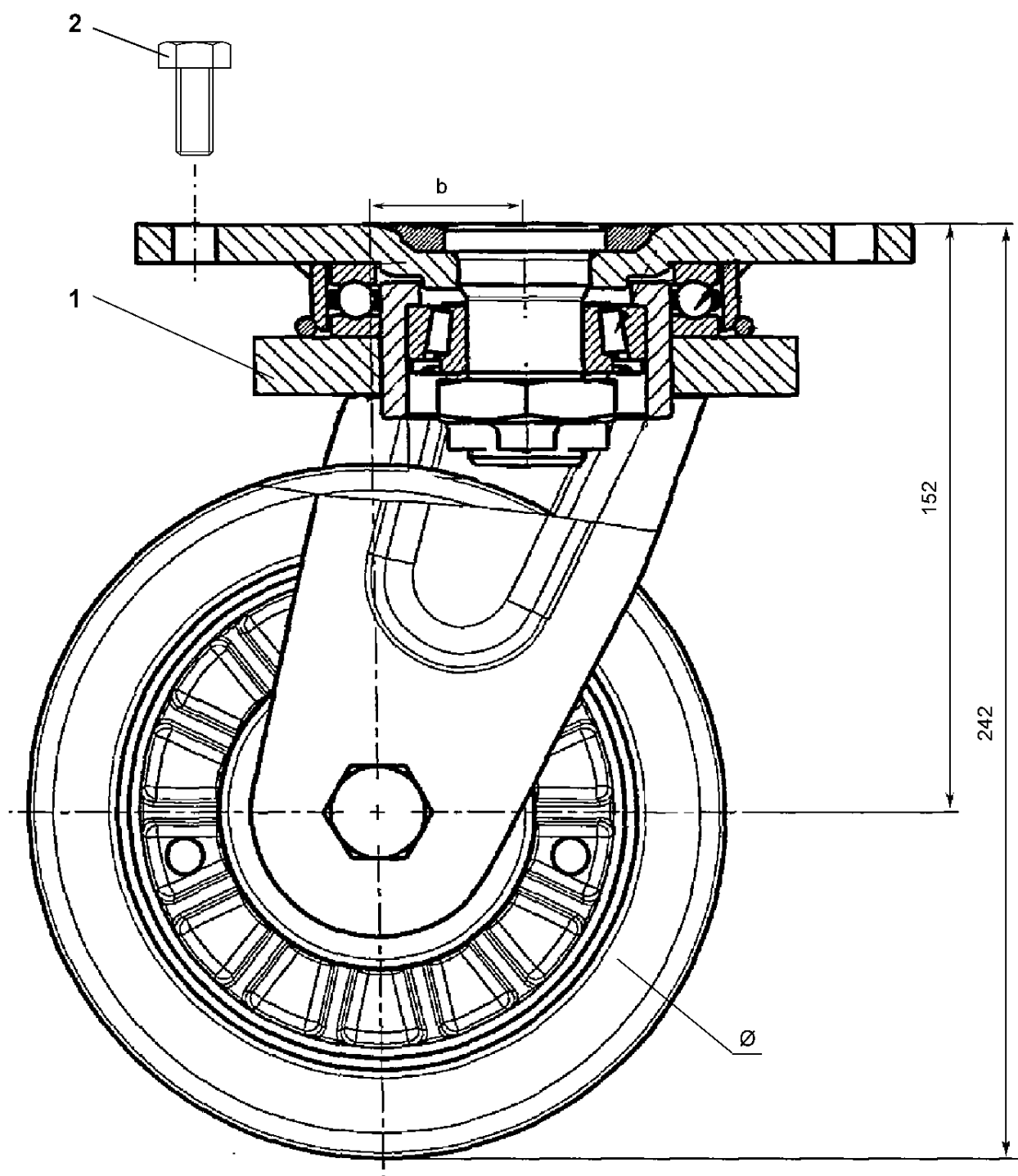
b=40mm / □180mm

034856

51054750

10/06

130207 00 1



Wheel, Supporting	b=40mm / □180mm	51054750 10/06 130207 00 2
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Item	n	Order-Nr.	Description
1	1	51054750	Wheel, Supporting b=40mm / Ø=180mm
1	1	51046973	Wheel, Supporting Ø=180/B=40/H=152
2	4	24003210	Screw 10.9

b=40mm / Ø=180mm
Ø=180/B=40/H=152
10.9

b=40mm / Ø=180mm
Ø=180/B=40/H=152
10.9

Steering system

F

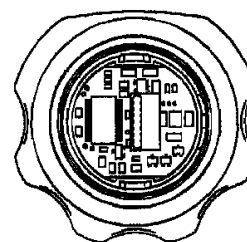
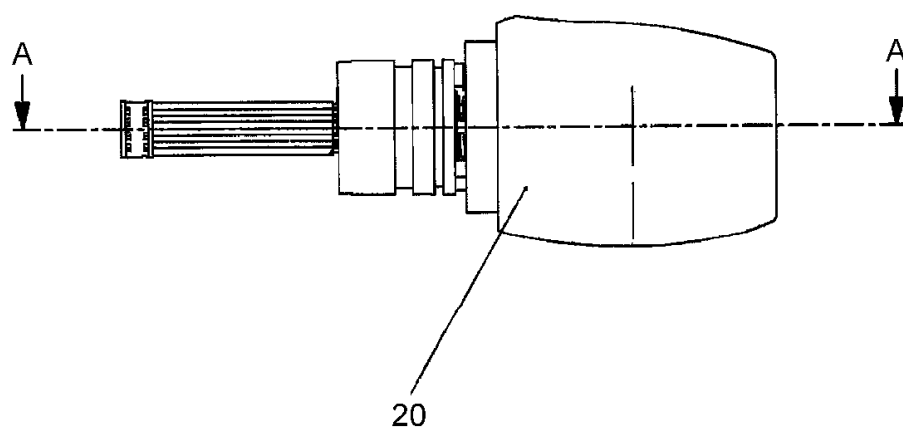
Controller

023544

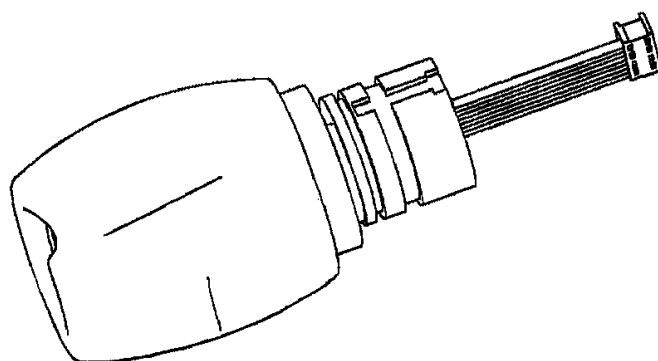
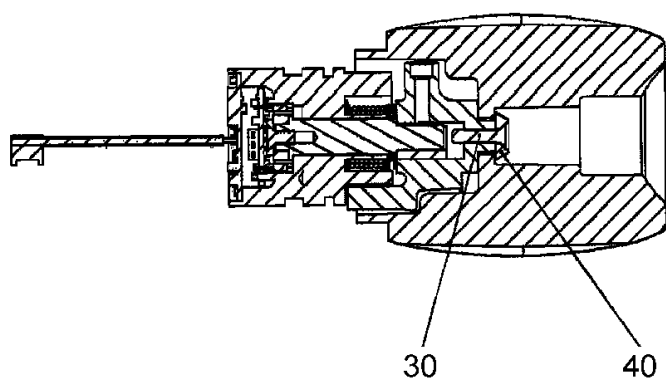
50463706

02/05

180205 00 1



A - A



Controller	50463706 02/05 180205 00 2
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Item	n	Order-Nr.	Description
	1	50463706	Controller
20	1	50059101	Lever, Switch
30	1	24404190	Screw
40	1	50144241	Rosette

Motor, Electric

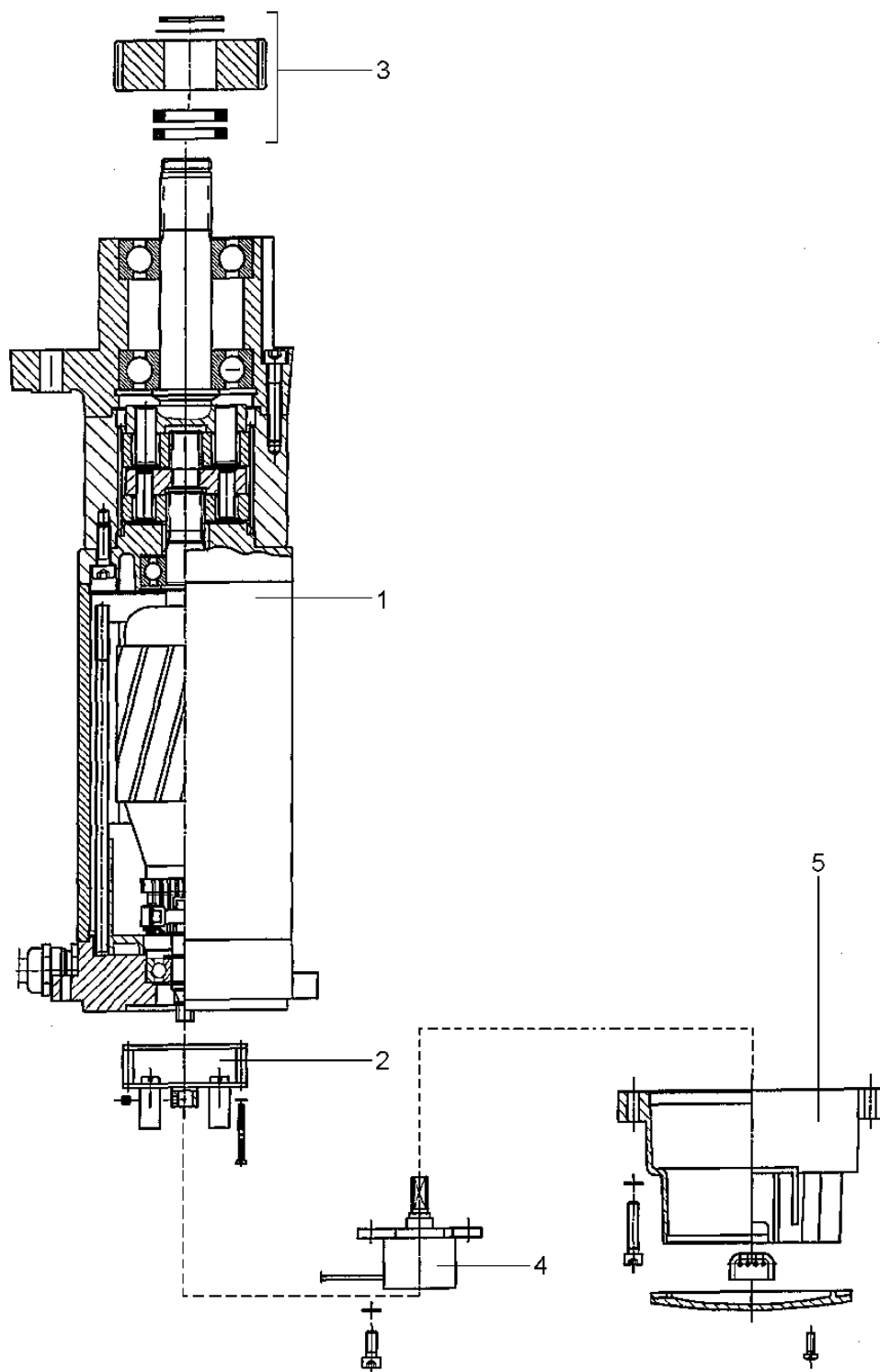
24V

034232

51024509

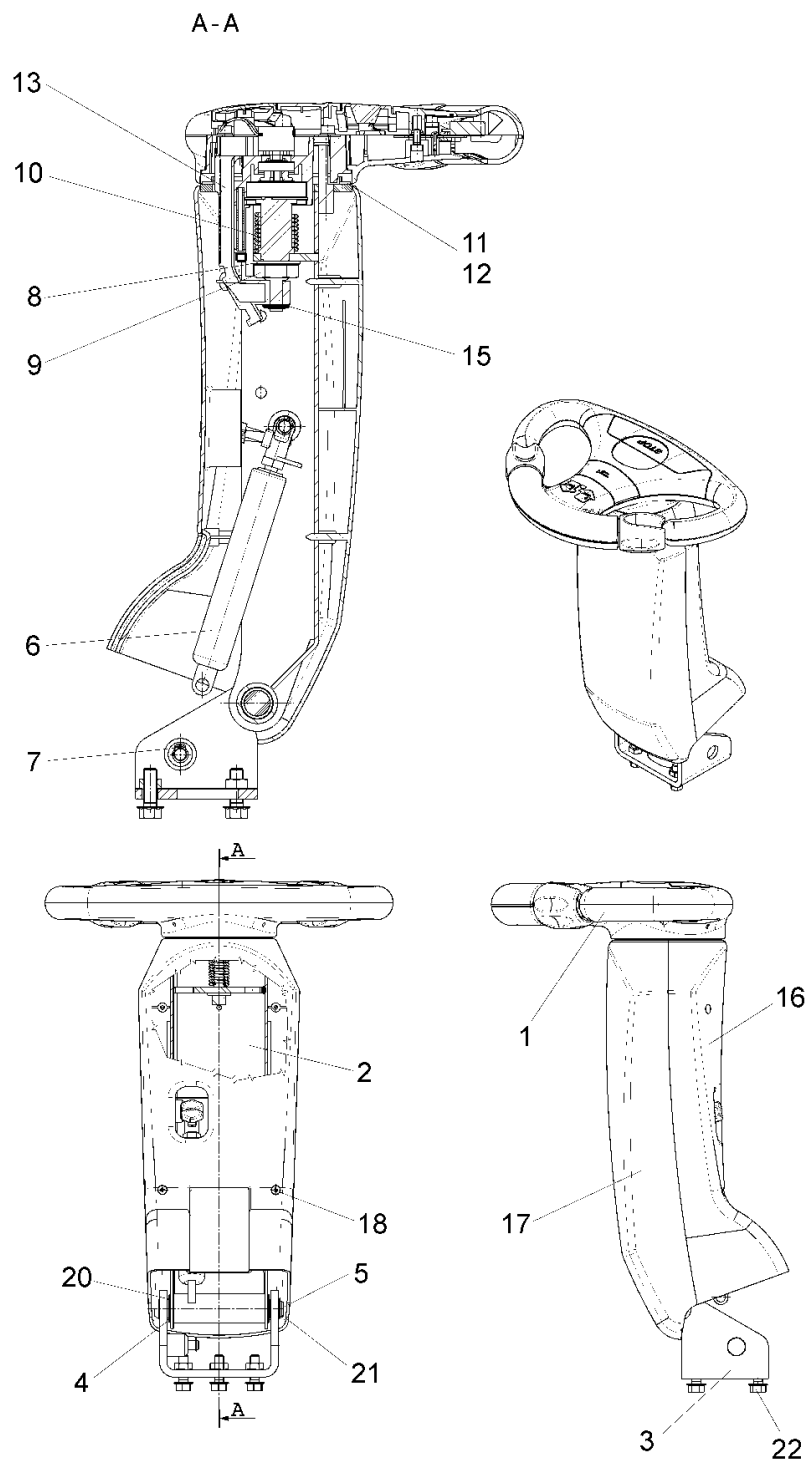
08/06

170806 00 1



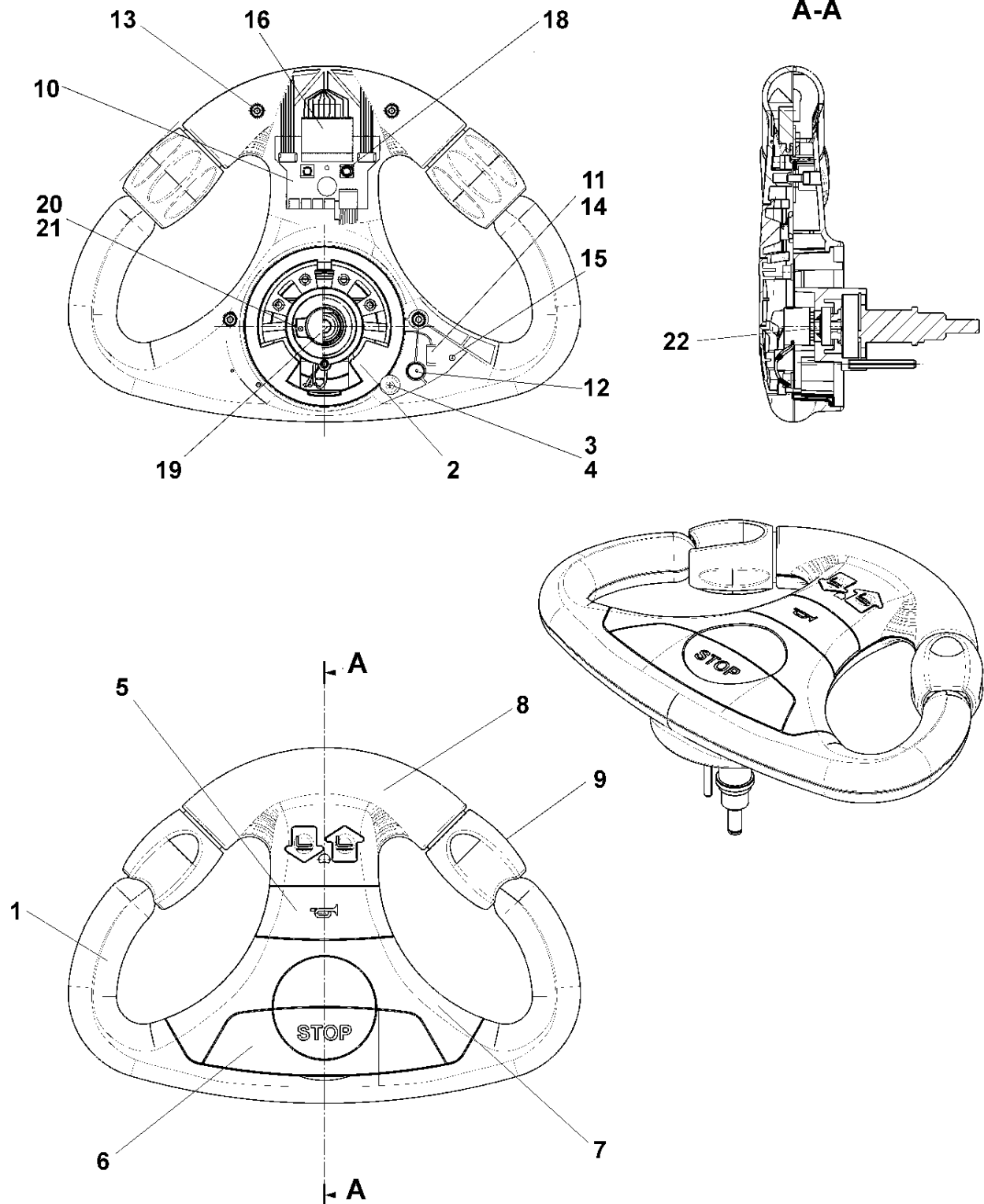
Motor, Electric	24V	51024509 08/06 170806 00 2
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Item	n	Order-Nr.	Description
	1	51024509	Motor, Electric 24V 24V
1	1	51043401	Motor, Steering booster
2	1	51042120	Gear, Spur
3	1	51042119	Spur pinion
4	1	52037950	Sensor
5	1	51042122	Protective casing



Unit, Steering	51035319 10/06 180107 00 2
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Item	n	Order-Nr.	Description
	1	51035319	Unit, Steering
1	1	51035331	Steering wheel seat
2	1	51034987	Brace
3	1	51045725	Support
4	2	36179460	Bush
5	1	51045576	Axle
6	1	50118364	Damping element
6.10	1	50428075	Release Unit
7	3	26200040	Circlip
8	1	25500230	Washer
9	1	25300270	Nut
10	1	51035761	M20X1,5 Spring
11	1	50059104	Ring
12	1	50424293	Washer spring
13	1	51035000	Bracket, Cable
14	2	50430751	Tie, Cable 3,5x150//3,6x140
15	1	25500900	Washer
16	1	50111227	Cover
17	1	50111226	Cover
18	4	50144153	Screw
19	3	50430752	Tie, Cable 4,6x200//4,8x186
20	1	26204030	Shim 20x28x1,0
21	1	26200310	Circlip
22	3	26102240	Screw



Steering wheel seat	51035331 01/07 180107 00 2
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Item	n	Order-Nr.	Description
	1	51035331	Steering wheel seat
1	1	50059096	Unit, Steering
2	1	51035262	Hub
3	4	24200960	Screw
4	4	50444961	Washer
5	1	50059099	Key, Warning signal
6	1	50059100	Push button
7	1	50059098	Cover
8	1	50463048	Cover
9	2	50463706	Controller
10	1	50463105	Signal collector
11	4	50423823	Microswitch
12	4	50120484	Spring, Compression
13	5	50424092	Screw
14	4	50127139	Fastening element
15	5	25000380	Screw
16	1	51025768	Cable, Control
17	1	50441344	Tie, Cable
18	2	50450752	Tappet
19	1	51006375	Potentiometer
20	2	24204460	Screw
21	2	25500360	Washer
22	1	51035616	Adapter

Hoist frame / Load lifting device

G

Cylinder, Lift

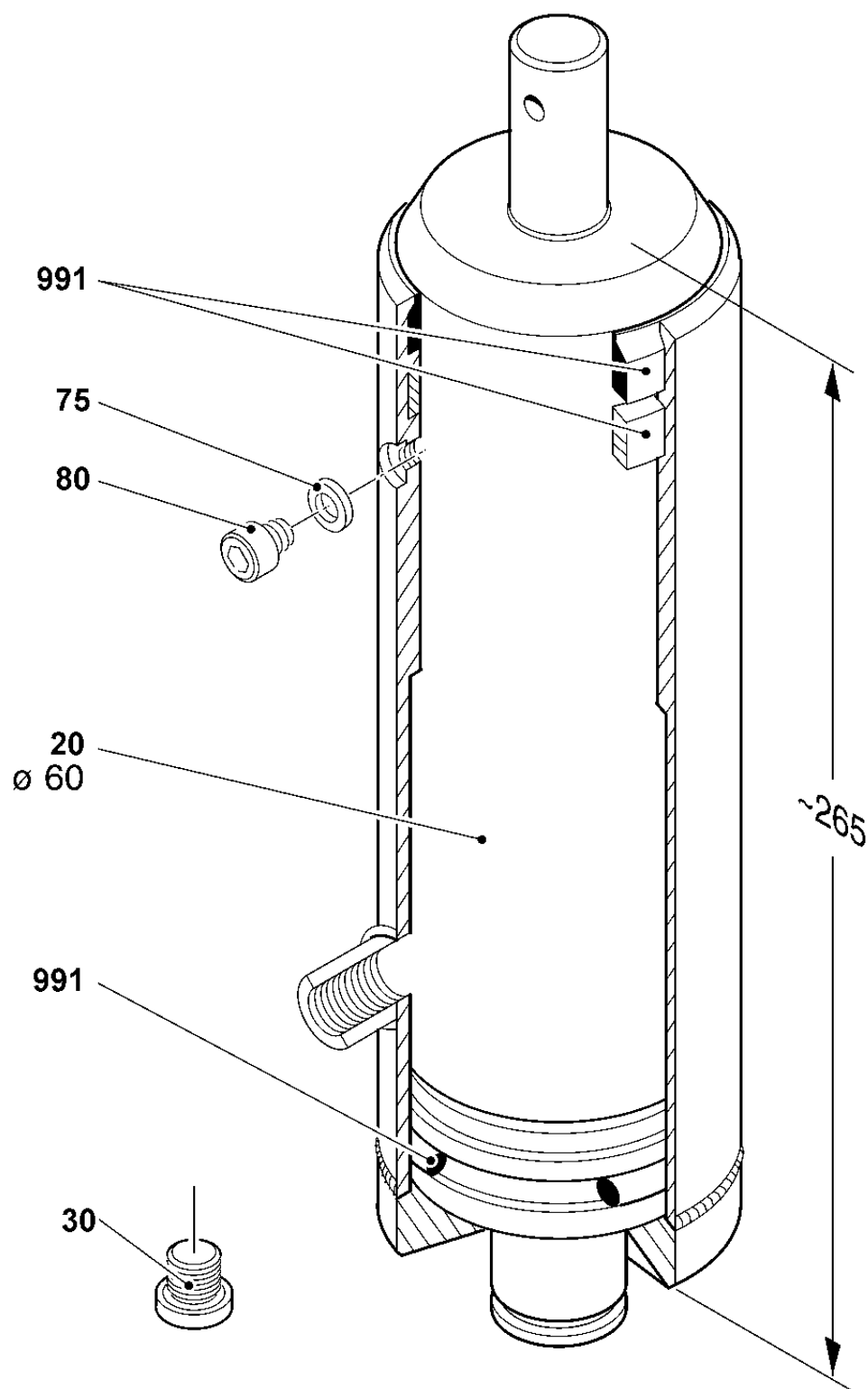
D= 60

000495

50011024

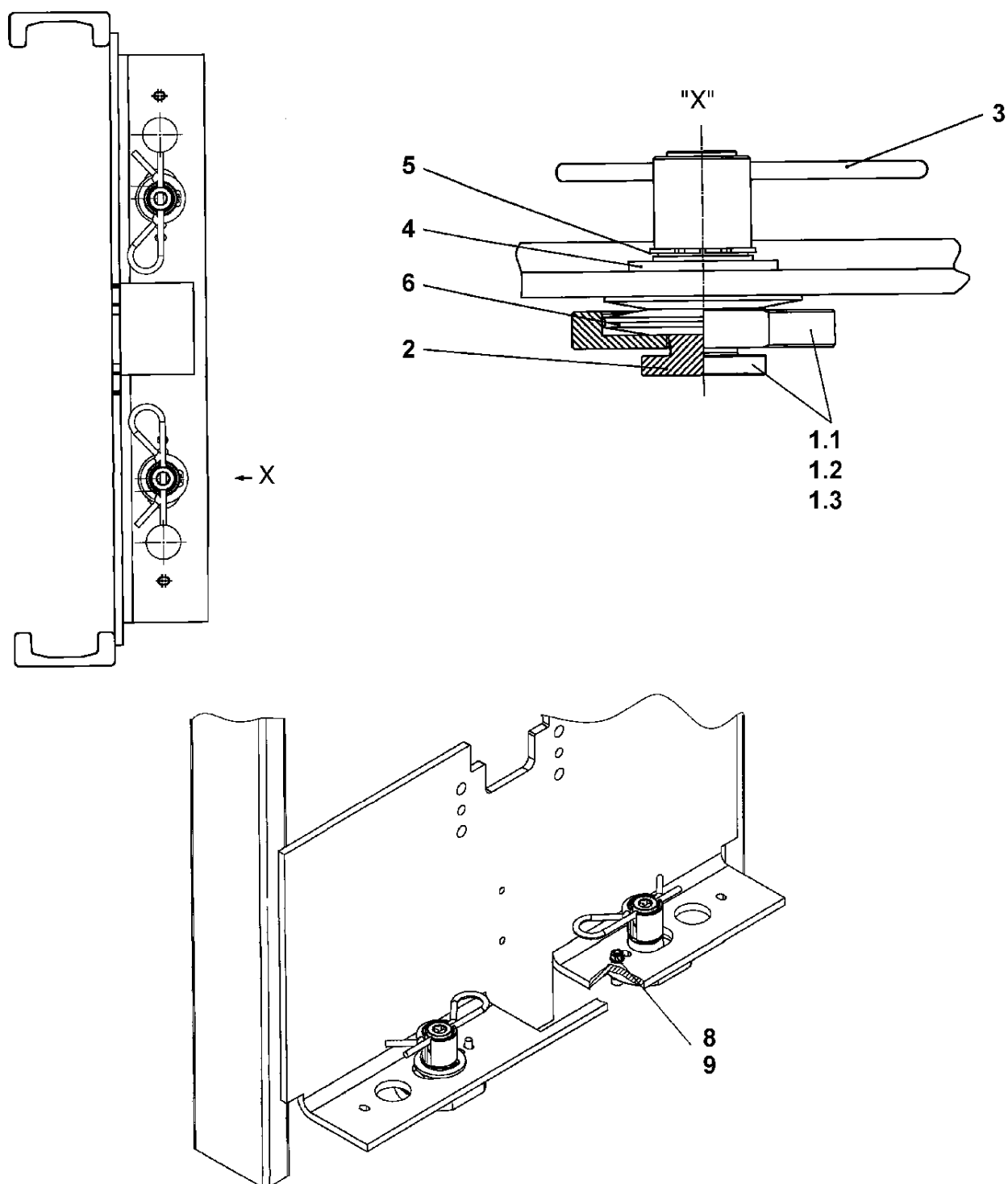
05/96

210508 00 1



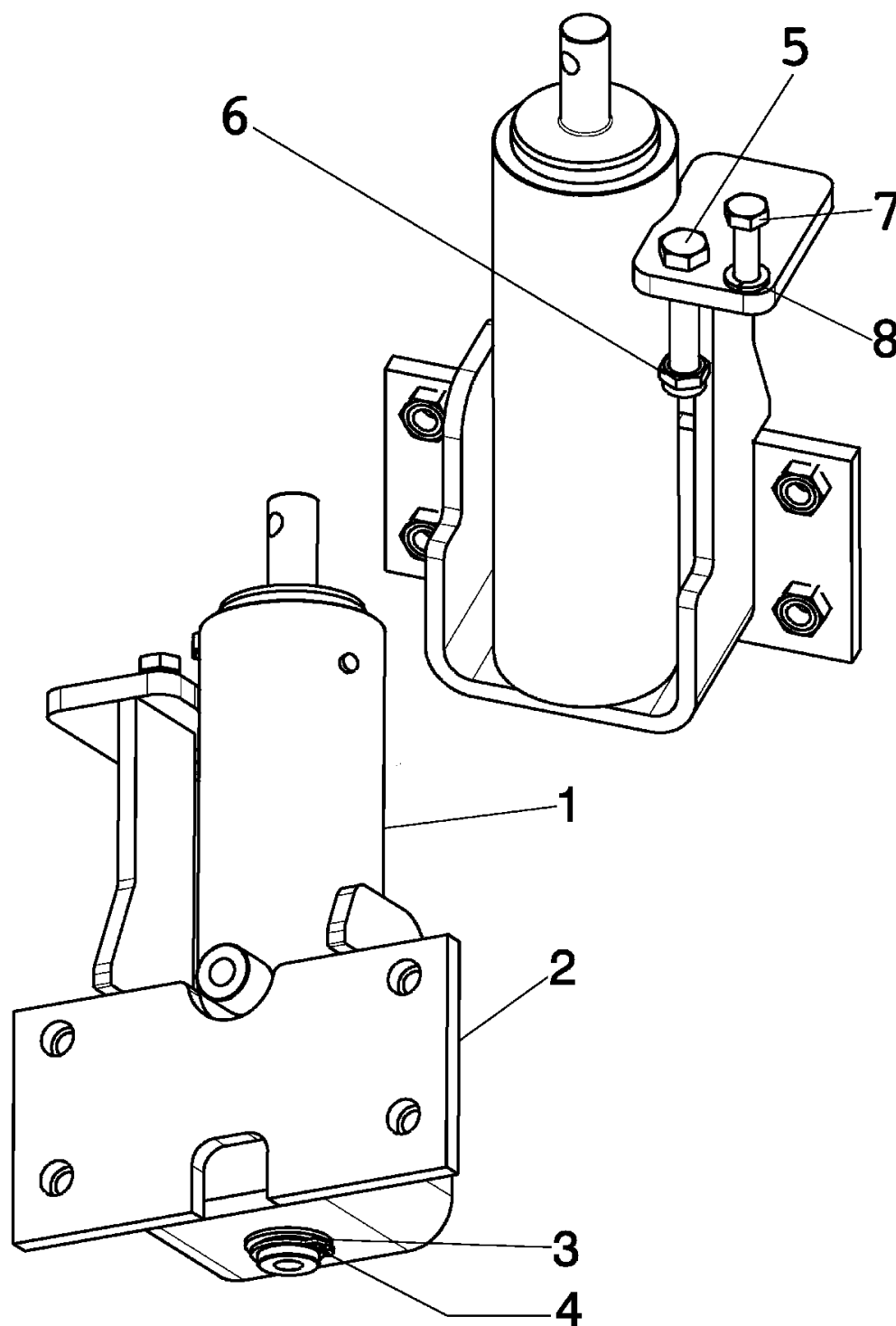
Cylinder, Lift	D= 60	50011024 05/96 210508 00 2
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Item	n	Order-Nr.	Description
	1	50011024	Cylinder, Lift D= 60
20	1	51046783	Rod, Piston
30	1	27218170	Screw plug
75	1	26102620	Screw
80	1	27411160	Ring, Seal
991	1	51103078	Kit, Seal



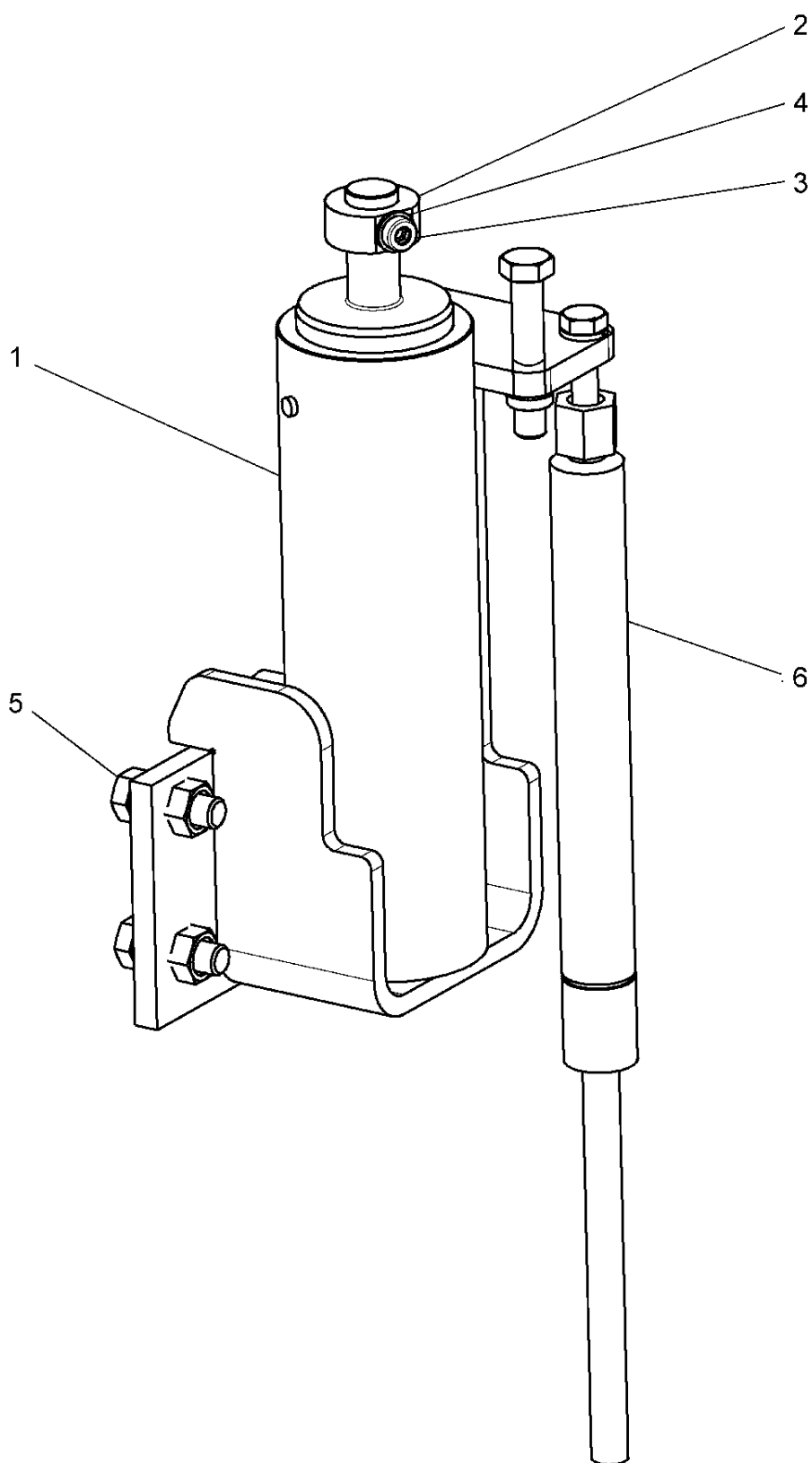
Connection group	50130194 11/01 181207 00 2
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Item	n	Order-Nr.	Description
	1	50130194	Connection group
1	2	50261690	Flange
1.1	2	51048852	Flange
1.2	2	50118686	Screw
1.3	2	24002540	Screw
3	2	50130185	Pin, Split
4	1	50468388	Washer
5	1	26200320	Circlip
6	3	50118787	Spring, Dished
8	1	25301090	Nut
9	1	25500790	Washer



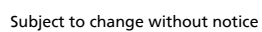
Cylinder, Lift	51022560 09/06 190107 00 2
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Item	n	Order-Nr.	Description
1	1	51022560	Cylinder, Lift
	1	50011024	Cylinder, Lift
2	1	51022558	Bracket
3	1	26202140	Shim
4	1	26200120	Circlip
5	1	24001390	Screw
6	1	50128635	Nut
7	1	24002380	Screw
8	1	25601090	Lock washer
			d=10



Cylinder, Lift	51022561 09/06 270906 00 2
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Item	n	Order-Nr.	Description		
1	1	51022561	Cylinder, Lift	M8	M8
2	1	51022560	Cylinder, Lift	10.9	10.9
3	1	42309820	Ring		
		24202890	Screw		
4	1	25500790	M8		
5	4	24003210	Washer		
			Screw		
6	1	51017343	10.9		
			Damping element		

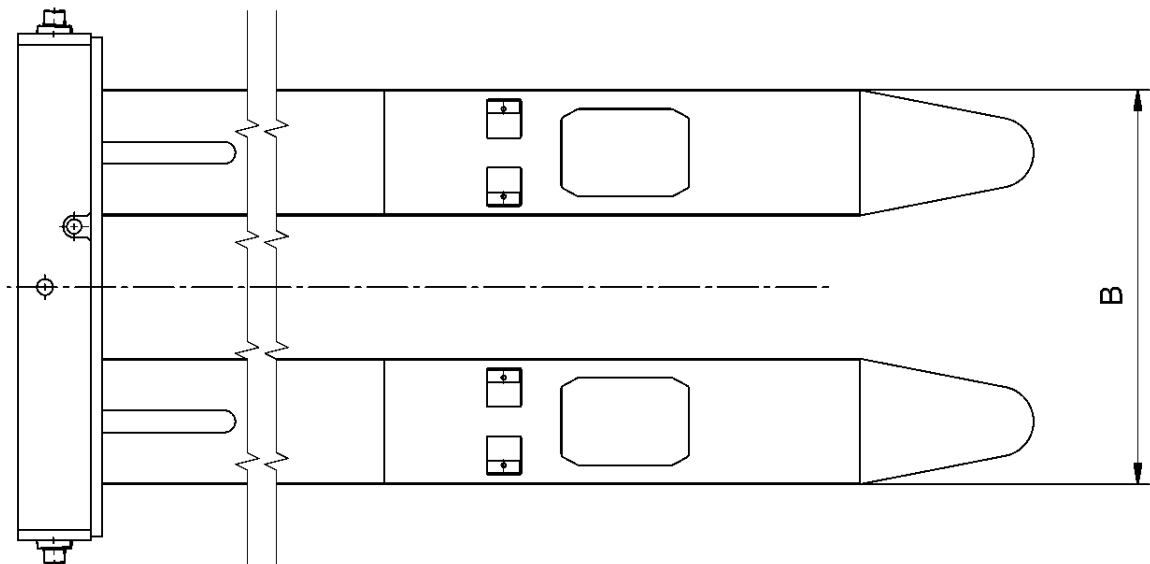
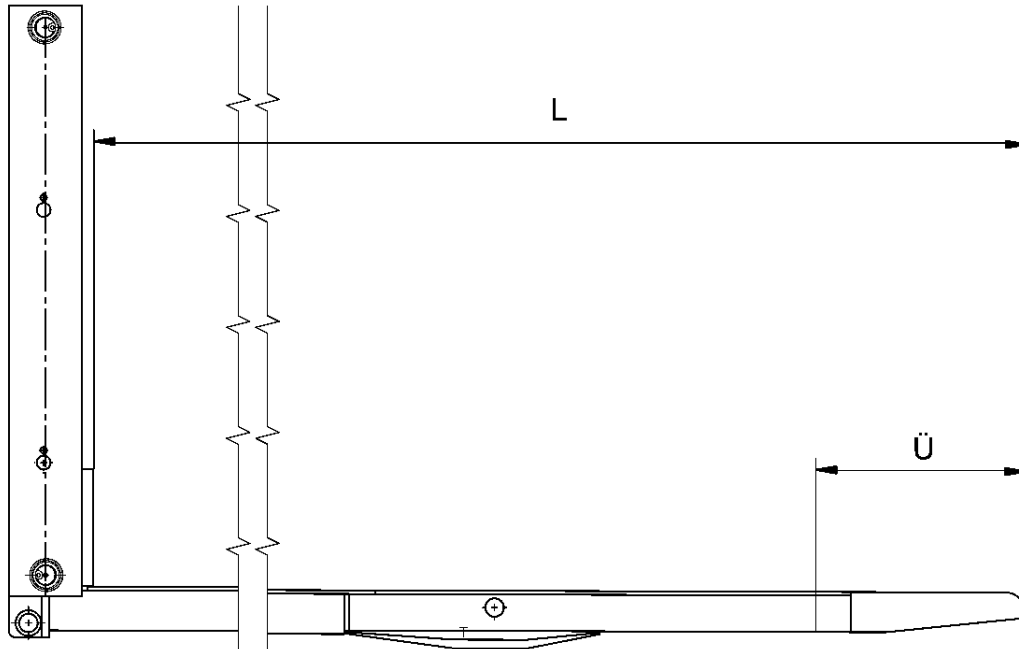


Connect. elem., Hoisting system	51024395 09/06 260208 00 2
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Item	n	Order-Nr.	Description
	1	51024395	Connect. elem., Hoisting system
1	4	26902340	Roller, Supporting D 80,1 A-M8x1
2	4	24204280	Screw
3	2	51037800	Bolt
3.3	2	27200020	Nipple, Lubricating A-M8x1
4	2	24203200	Screw
5	2	50009607	Bolt
6	2	50305480	Tension socket
7	2	27200020	Nipple, Lubricating A-M8x1
8	4	51024546	Guide
8.1	4	51012038	Adjusting piece
8.2	4	51036750	Pin-grooved
8.3	4	24901040	Stud, Threaded
9	4	51012033	Block, Slide
10	4	50021473	Nut

Frame, Load	540/2400/558	51024405
	032200	06/06 140606 00 1

B = ... / L = / Ü = ...



Frame, Load		540/2400/558	51024405 06/06 140606 00 2
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Item	n	Order-Nr.	Description
	1	51024405	Frame, Load 540/2400/558

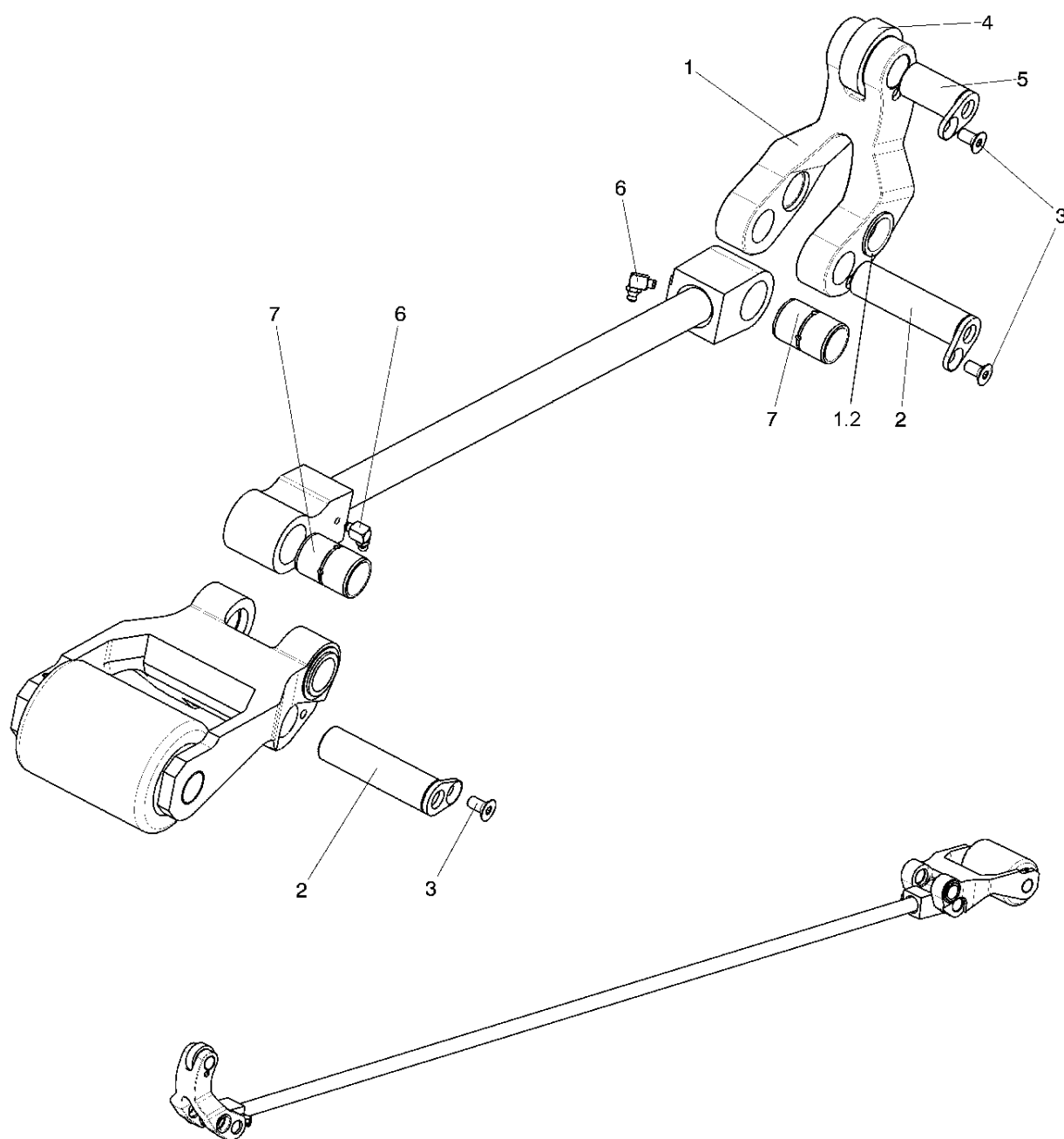
540/2400/558

540/2400/558

Mounting parts

034393

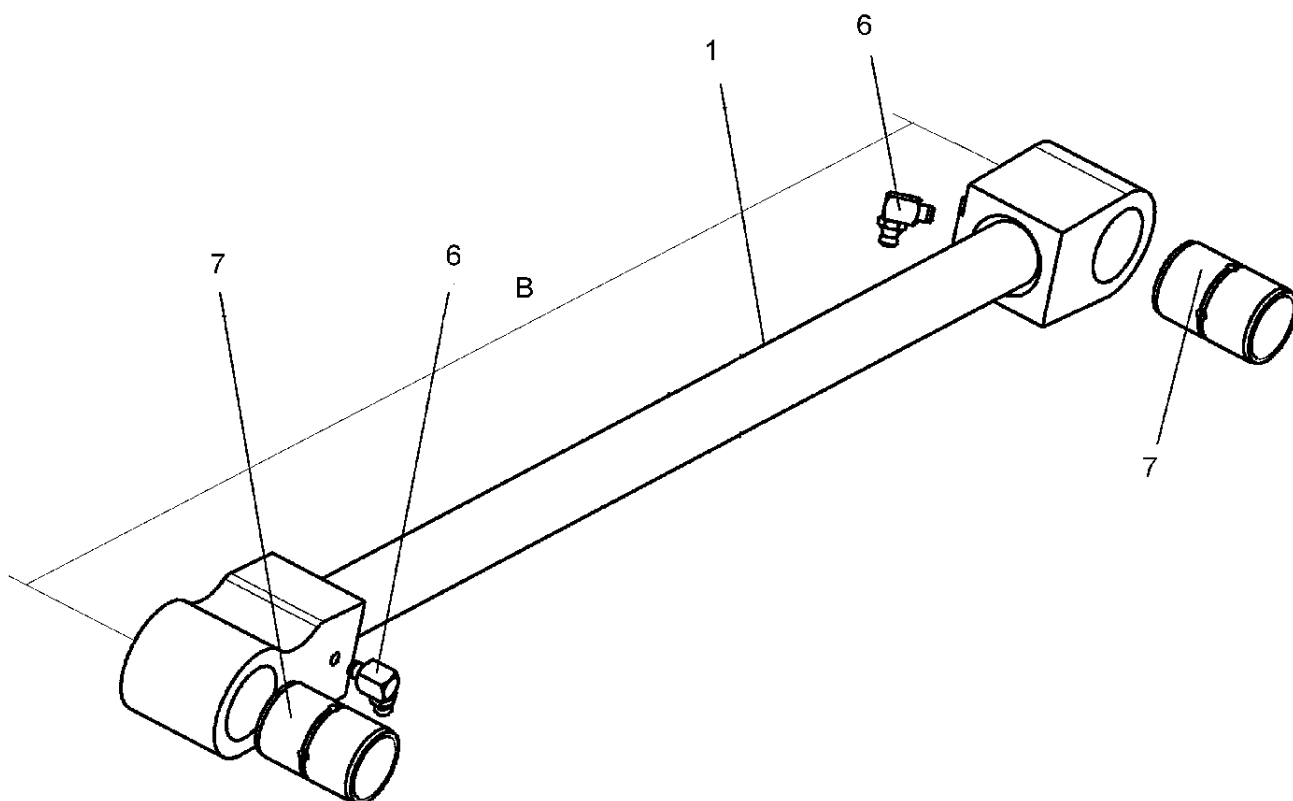
51024713
08/06
171006 00 1



Mounting parts	51024713 08/06 171006 00 2
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Item	n	Order-Nr.	Description		
	1	51024713	Mounting parts	25x52x16	25x52x16
1	2	51050364	Lever		
1.2	4	36179410	Bush		
2	4	50009602	Bolt		
3	6	24202910	Screw		
4	2	50438835	Roller, Supporting		
			25x52x16		
5	2	49254290	Bolt		
6	4	27201840	Nipple, Lubricating		
7	4	35219490	Bush		

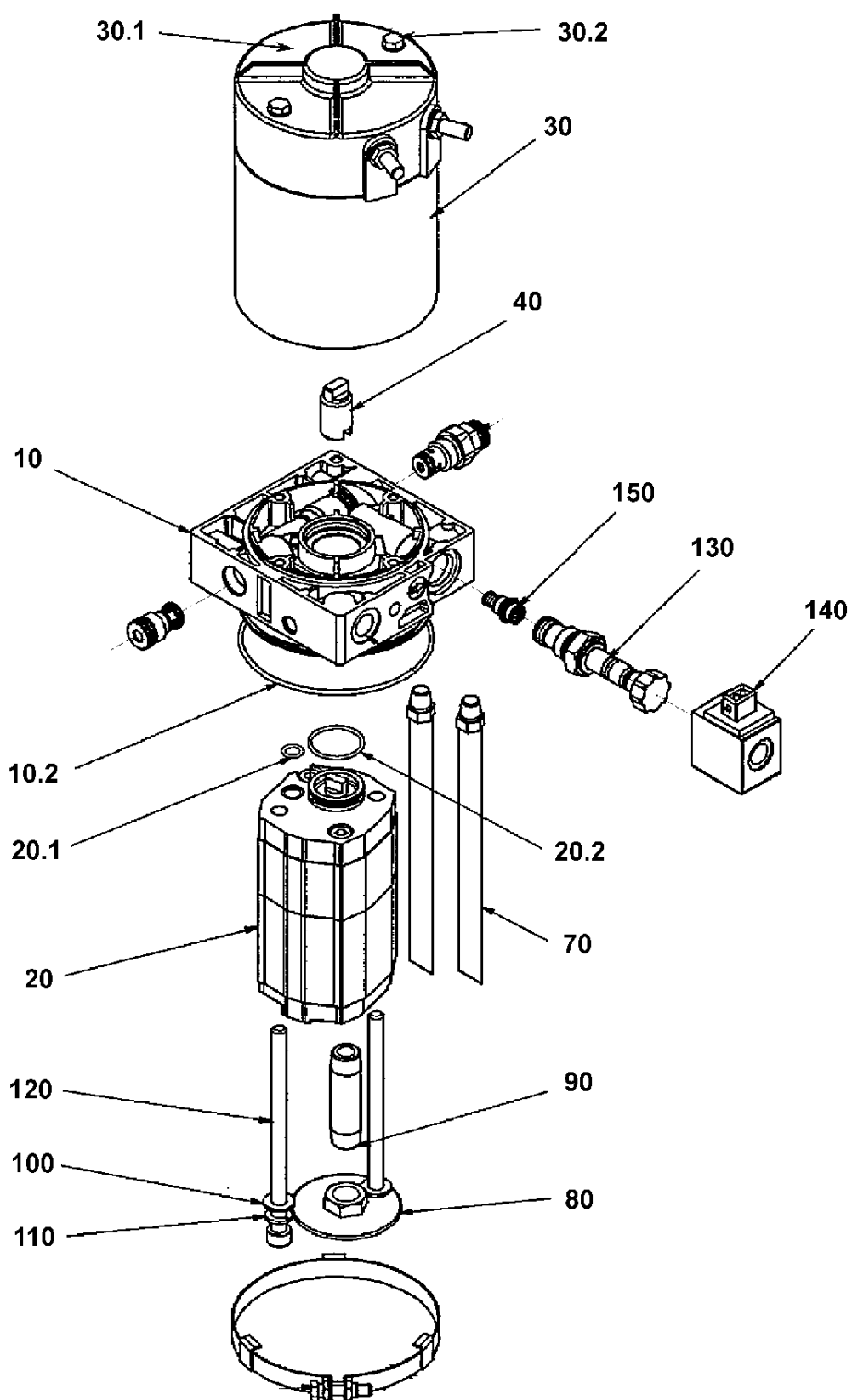
Pull rod	RAL7016;B=1751,2mm 034099	51050188 07/06 280706 00 1
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Pull rod	RAL7016;B=1751,2mm	51050188 07/06 280706 00 2
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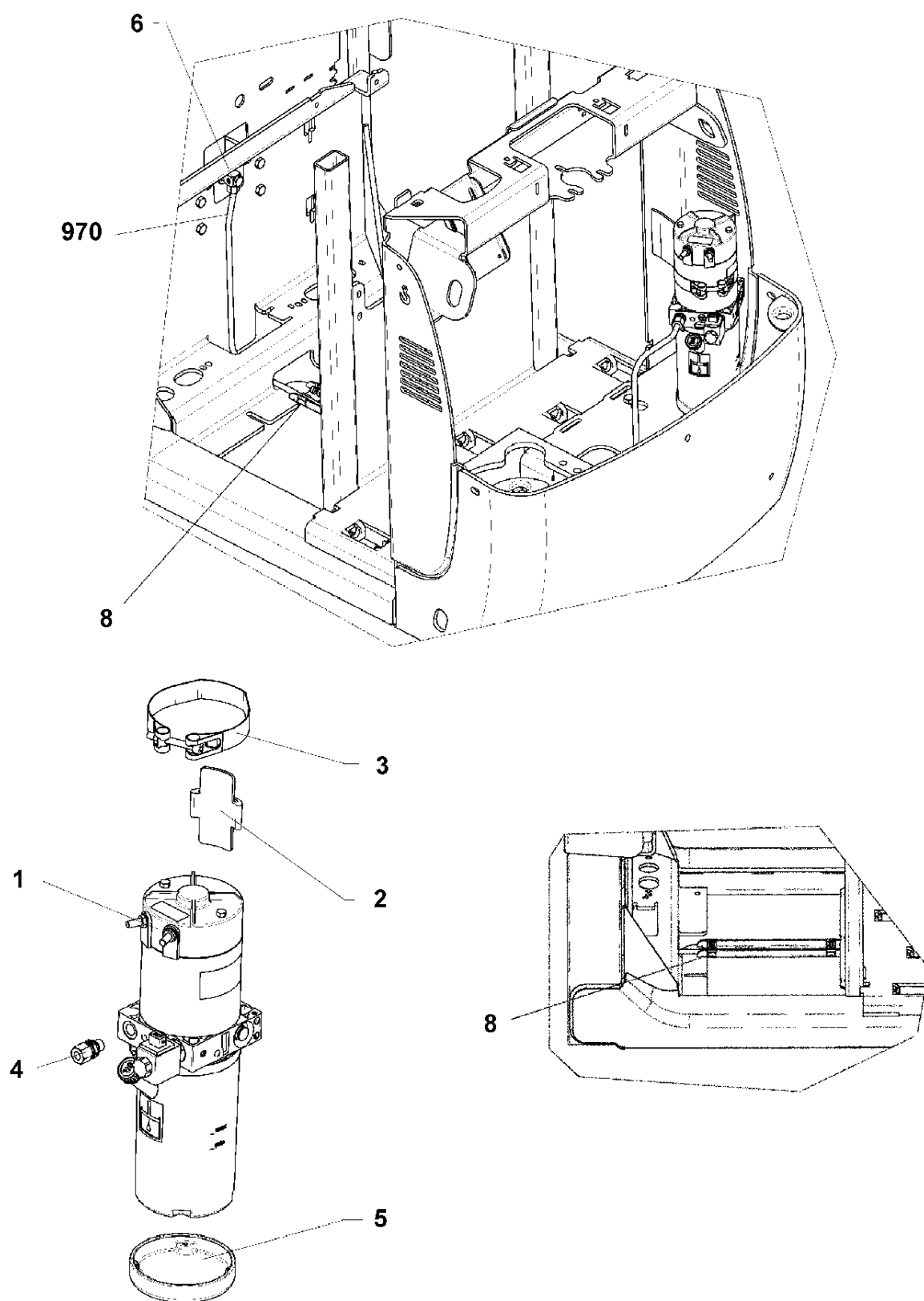
Item	n	Order-Nr.	Description
	1	51050188	Pull rod RAL7016;B=1751,2mm
1	1	51024818	Pull rod RAL7016/B=1751,2
6	2	27201840	Nipple, Lubricating
7	2	35219490	Bush

Hydraulic system



Hydr. Unit	51006444 10/06 101006 00 2
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Item	n	Order-Nr.	Description
	1	51006444	Hydr. Unit
10	1	51056964	Connecting block, Hydr.
10.2	1	51048524	Ring, Seal
20	1	51056965	Pump, Hydraulic
20.1	1	51024412	Seal, O-ring
20.2	1	51056968	Seal, O-ring
30	1	51056970	Pump motor
30.1	1	51057616	Kit, Carbon brush
30.2	1	51057618	Kit, Screw
40	1	51056969	Clutch, Mech.
50	1	51057391	Tank
50.2	1	51057393	Filter, Feed and aeration
60	1	51056971	Clamp
70	2	51056974	Pipe
80	1	51056984	Filter
90	1	51056993	Pipe
100	2	51057002	Washer
110	2	50453452	Washer
120	2	51057348	Screw
130	1	51057364	Valve- Control
140	1	51024421	Magnet coil
150	1	51057371	Valve, Flow Regulating



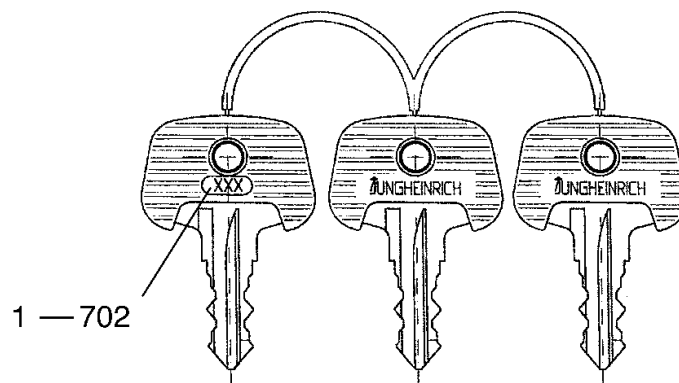
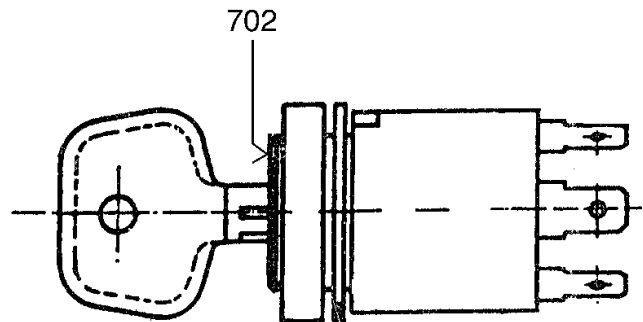
System, Hydraulic	51025952 09/06 281106 00 2
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Item	n	Order-Nr.	Description
	1	51025952	System, Hydraulic
1	1	51006444	Hydr. Unit
2	1	51025951	Damping element
3	1	50454570	Clamp
4	1	26905820	Adaptor
5	1	51040158	Plate, Rubber
6	1	50009881	Adaptor
8	6	50262417	Clamp
970	1	51062359	Hydr. pipes

Electric system

J

Key switch	702	28526100 08/99 241002 00 1
	021207	



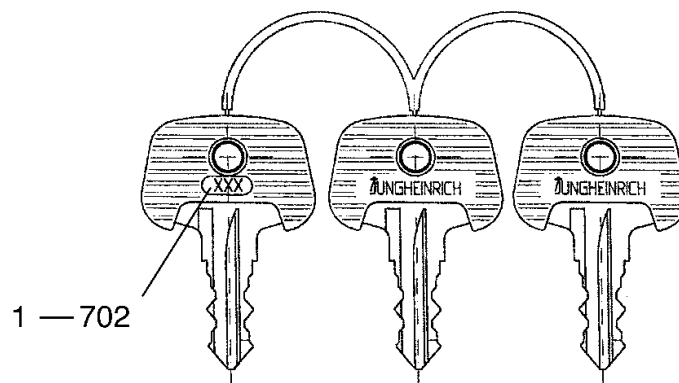
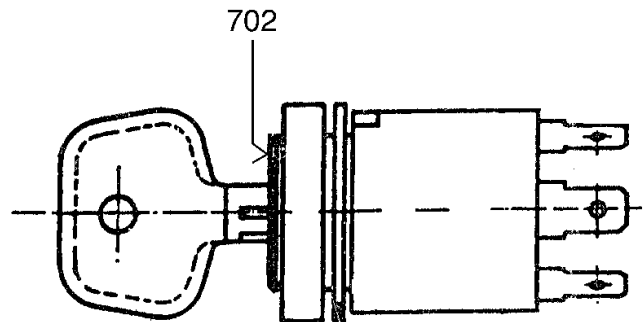
Key switch	702	28526100 08/99 241002 00 2
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Item	n	Order-Nr.	Description
1	1	28526100	Key switch 702
	1	28520490	Kit, Key 702/3x/red/JAG

702
702/3x/red/JAG

702
702/3x/red/JAG

Key switch	702	28526100
	021207	08/99 241002 00 1

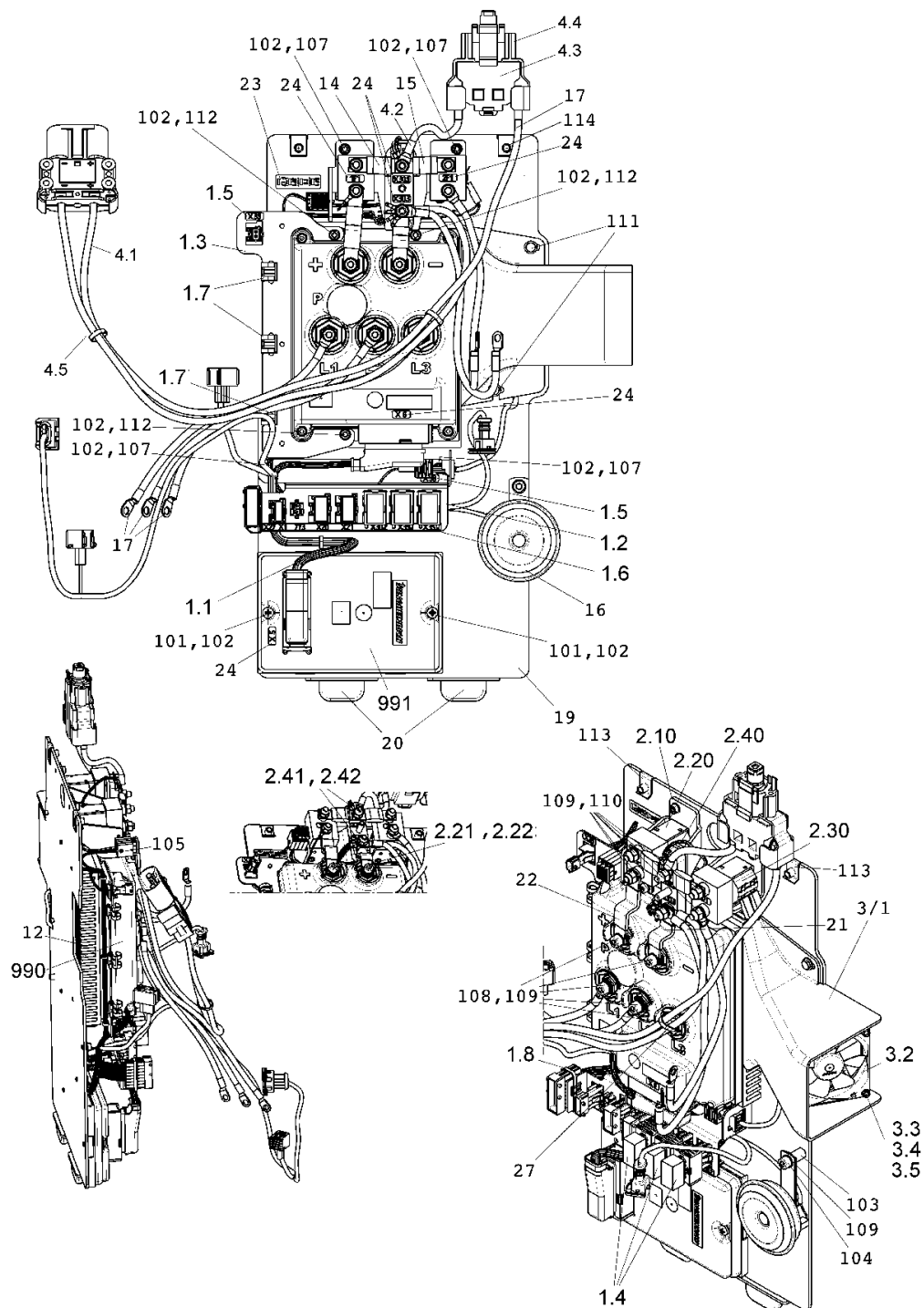


Key switch	702	28526100 08/99 241002 00 2
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Item	n	Order-Nr.	Description
1	1	28526100	Key switch 702
	1	28520490	Kit, Key 702/3x/red/JAG

702
702/3x/red/JAG

702
702/3x/red/JAG



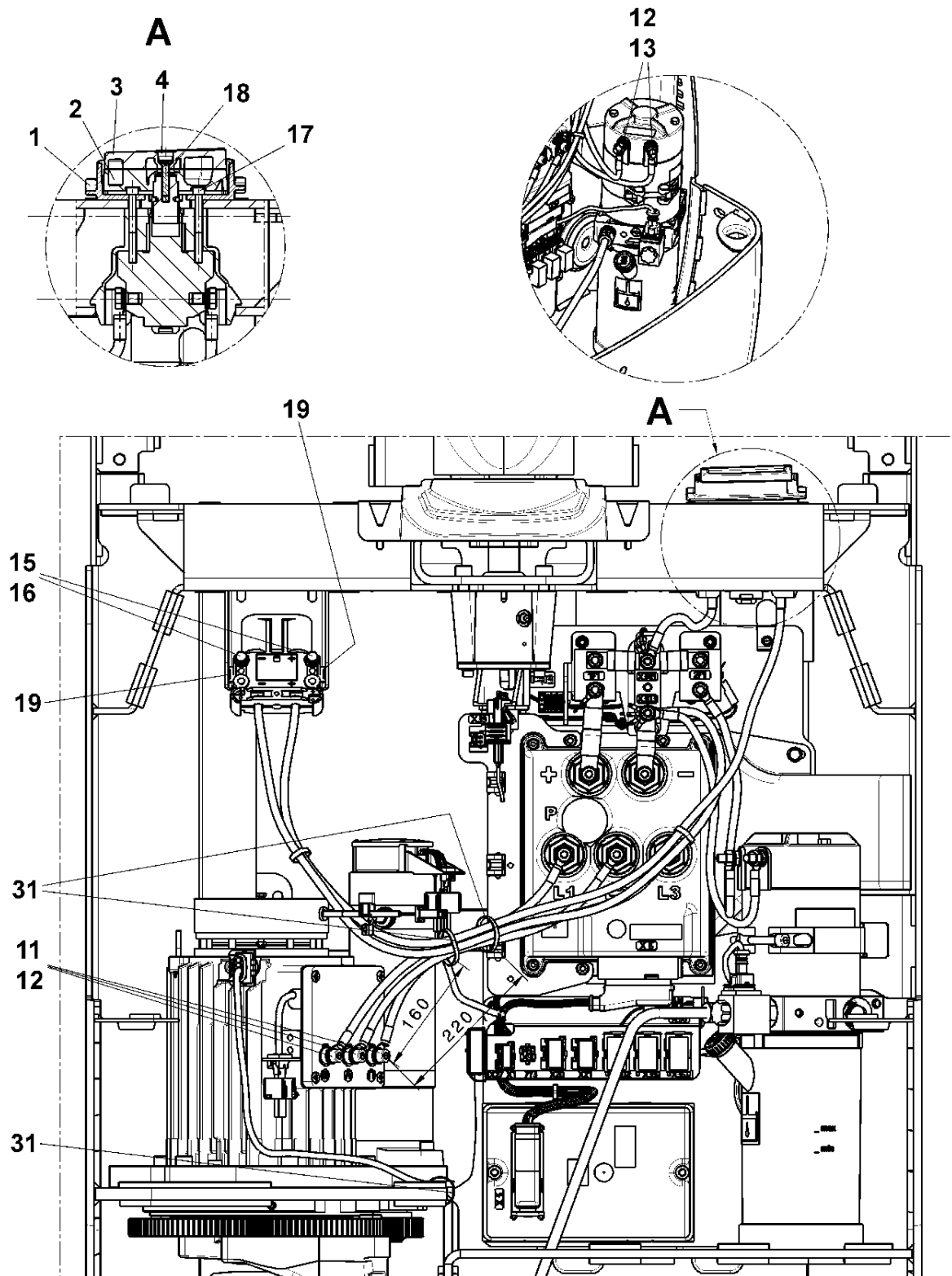
Plate, Mounting Electrics

51011851

11/06

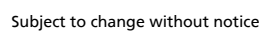
020407 00 2

Item	n	Order-Nr.	Description		
	1	51011851	Plate, Mounting Electrics	10pol	10pol
1	1	51035250	Cable, Control	4,6x200//4,8x186	4,6x200//4,8x186
1.1	1	51026710	Cable, Control	24V/120A/15/100%	24V/120A/15/100%
1.2	1	51010641	Bracket	M4x8	M4x8
1.3	1	51036192	Bracket, Cable	M4	M4
1.4	3	50429260	Block, Terminal	4,6x200//4,8x186	4,6x200//4,8x186
			10pol	300A	300A
1.5	2	50021304	Label	150A	150A
1.6	1	51034394	Label	l=77mm	l=77mm
1.7	3	50262417	Clamp	l=96,5mm	l=96,5mm
1.8	1	50430752	Tie, Cable	4,6x200//4,8x186	4,6x200//4,8x186
			4,6x200//4,8x186	M6x35	M6x35
2	1	51035251	Contact rack	M6x12	M6x12
2.10	1	50120379	Bracket	M8x12	M8x12
2.20	1	50438767	Contact	AS2412/3	AS2412/3
			24V/120A/15/100%	(AT)	(AT)
2.21	4	24403580	Screw	PM2402z./eIL/ECE BR2	PM2402z./eIL/ECE BR2
			M4x8		
2.22	4	25601240	Lock washer		
2.30	1	50438766	Contact		
2.40	1	28404160	Board, Terminal		
2.41	2	24402800	Screw		
2.42	2	25600200	Lock washer		
3	1	51035252	Fan		
3.1	1	50147234	Air duct		
3.2	1	51003518	Fan		
3.3	4	24403880	Screw		
3.4	4	25302830	Nut		
			M4		
4	1	51060241	Mounting parts		
4.1	1	51049683	Cable, Truck		
4.2	1	51060246	Cable, Power		
4.3	1	50020312	Switch, Master		
4.4	1	51038811	Bracket		
4.5	1	50430752	Tie, Cable		
			4,6x200//4,8x186		
12	1	50147203	Heatsink		
14	1	50250175	Fuse		
			300A		
15	1	50250180	Fuse		
			150A		
16	1	50439129	Horn		
17	1	51034990	Cable, Power		
19	1	51026279	Plate		
20	2	51010597	Cap		
21	1	50144070	Copper bridge		
			l=77mm		
22	1	50144074	Copper bridge		
			l=96,5mm		
23	1	51035257	Label		
24	6	50021304	Label		
27	1	50430752	Tie, Cable		
			4,6x200//4,8x186		
101	3	24200710	Screw		
			M6x35		
102	10	51040020	Lock washer		
103	1	35000660	Spacer sleeve		
104	2	25500790	Washer		
105	1	51010530	Screw		
107	4	24201660	Screw		
			M6x12		
108	5	24203160	Screw		
			M8x12		
109	13	25600850	Lock washer		
110	6	25301090	Nut		
111	2	26102650	Screw		
112	3	24200640	Screw		
113	2	26102600	Sheet metal nut		
114	2	26102070	Screw		



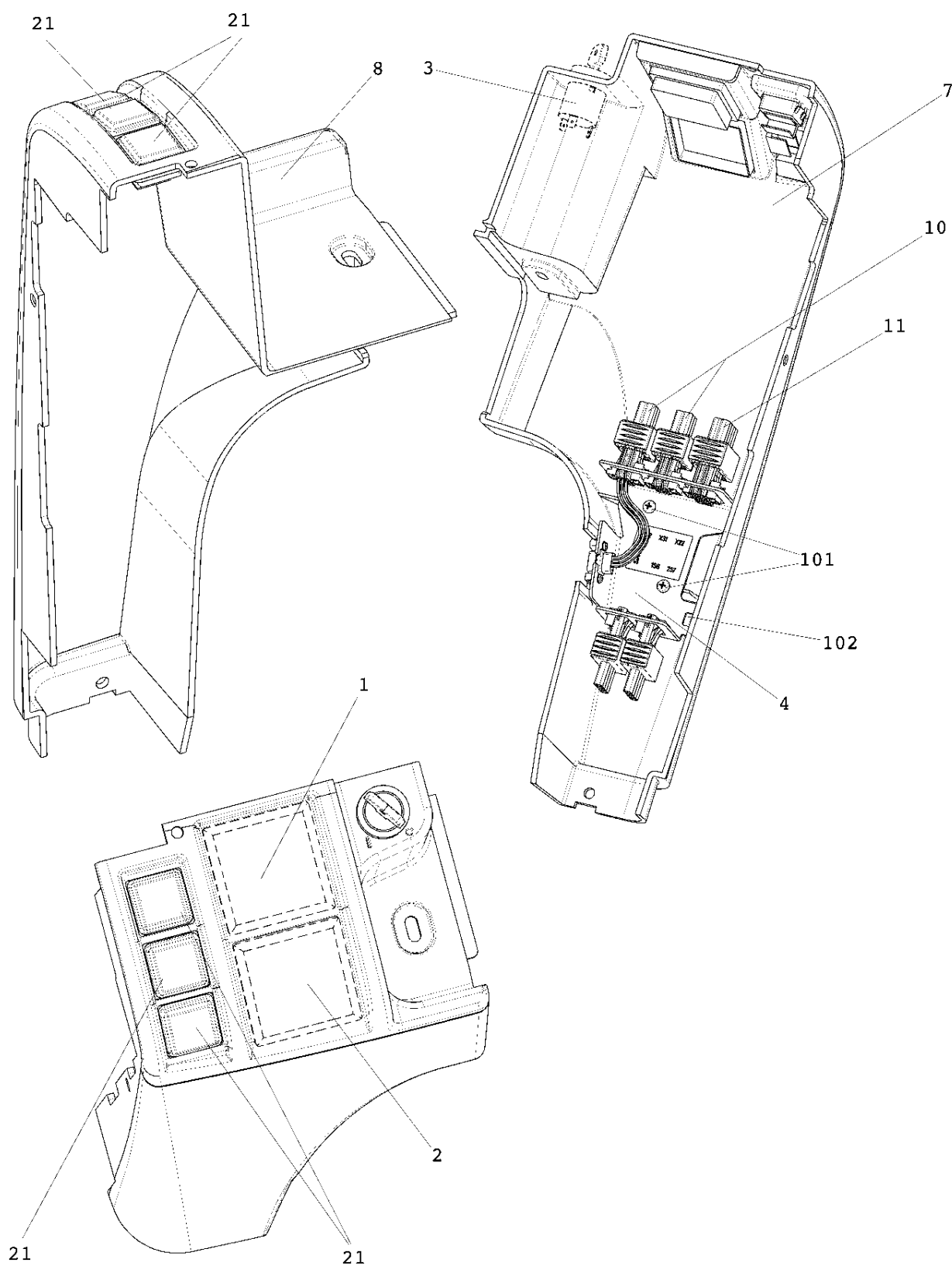
Mounting parts, Electrical	51011855 09/06 091007 00 2
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Item	n	Order-Nr.	Description		
	1	51011855	Mounting parts, Electrical	M8x12	M8x12
1	1	51038520	Screen	6,4	6,4
2	1	51038309	Handle	4,6x200//4,8x186	4,6x200//4,8x186
3	1	51038268	Handle		
4	1	50024886	Plug		
11	3	24203160	Screw M8x12		
12	5	25600850	Lock washer		
13	2	25301090	Nut		
15	2	24201090	Screw		
16	2	25501510	Washer 6,4		
17	2	24203380	Screw		
18	1	24404290	Screw		
19	2	25303370	Nut		
31	3	50430752	Tie, Cable 4,6x200//4,8x186		



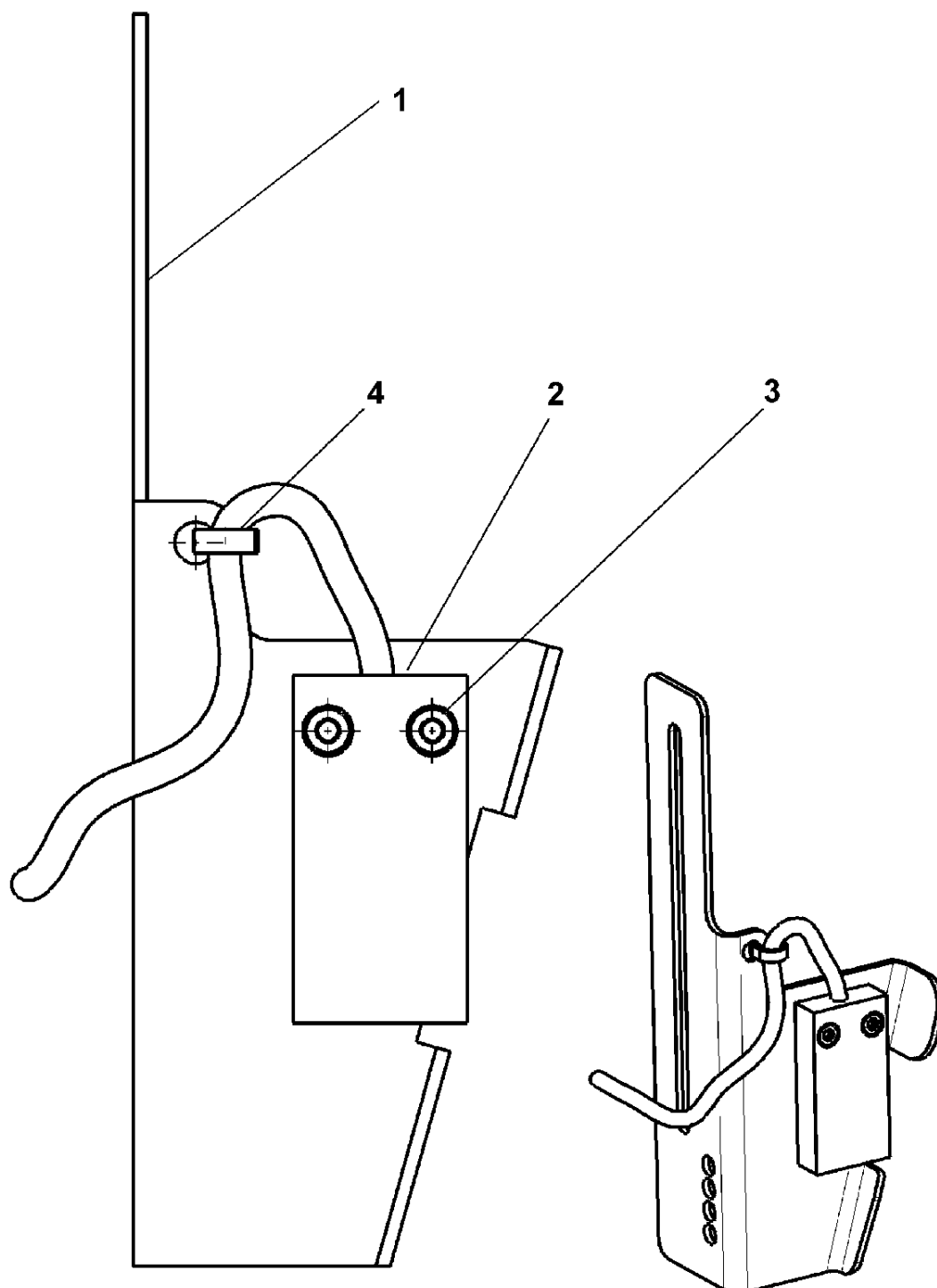
Instrument hood	Candis&Key-JH	51011965 09/06 050707 00 2
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Item	n	Order-Nr.	Description
	1	51011965	Instrument hood
1	1	51060264	Candis&Key-JH Combined instrument EA/BZ/Candis/Justcap
2	1	27218150	Cap
3	1	28526100	Key switch
4	1	51041749	Cable, Control
7	1	51046926	Instrument hood re
8	1	51046932	Instrument hood li
10	1	50129711	Cable, Control
11	1	50129714	Cable, Control X22
21	6	28526680	Cover, switch
101	2	50109340	Screw
102	1	50430751	Tie, Cable 3,5x150//3,6x140



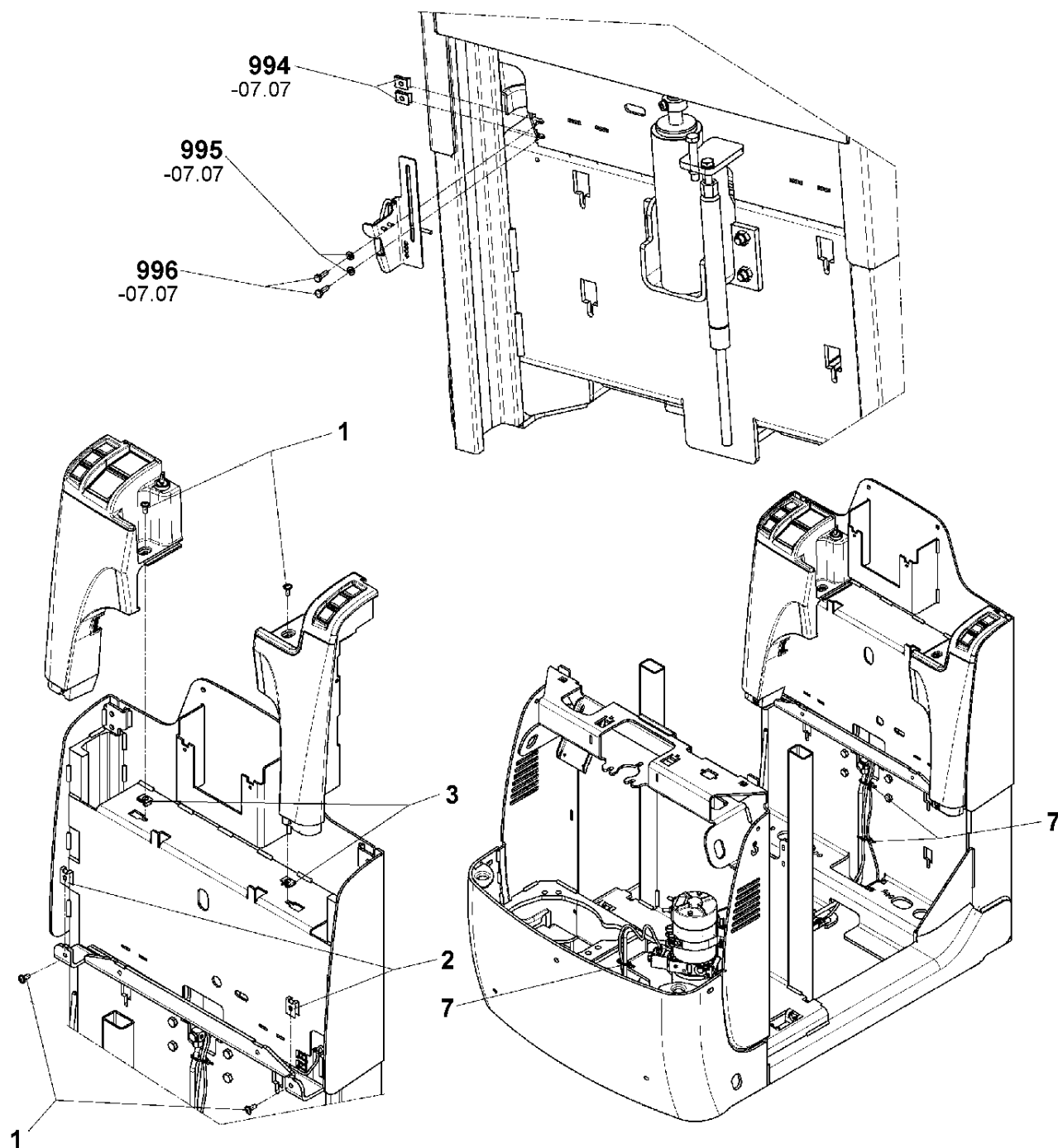
Instrument hood	Candis&Key-JH	51011965 09/06 050707 00 2
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Item	n	Order-Nr.	Description
	1	51011965	Instrument hood
1	1	51060264	Candis&Key-JH Combined instrument EA/BZ/Candis/Justcap
2	1	27218150	Cap
3	1	28526100	Key switch
4	1	51041749	Cable, Control
7	1	51046926	Instrument hood
8	1	51046932	Instrument hood
10	1	50129711	Cable, Control
11	1	50129714	Cable, Control
21	6	28526680	Cover, switch
101	2	50109340	Screw
102	1	50430751	Tie, Cable
			3,5x150//3,6x140



Cut-off, Hoisting	51022302 09/06 200906 00 2
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Item	n	Order-Nr.	Description		
	1	51022302	Cut-off, Hoisting	3,5x150//3,6x140	3,5x150//3,6x140
1	1	51022301	Bracket		
2	1	51034146	Sensor		
3	2	50452662	Screw		
4	1	50430751	Tie, Cable		
			3,5x150//3,6x140		



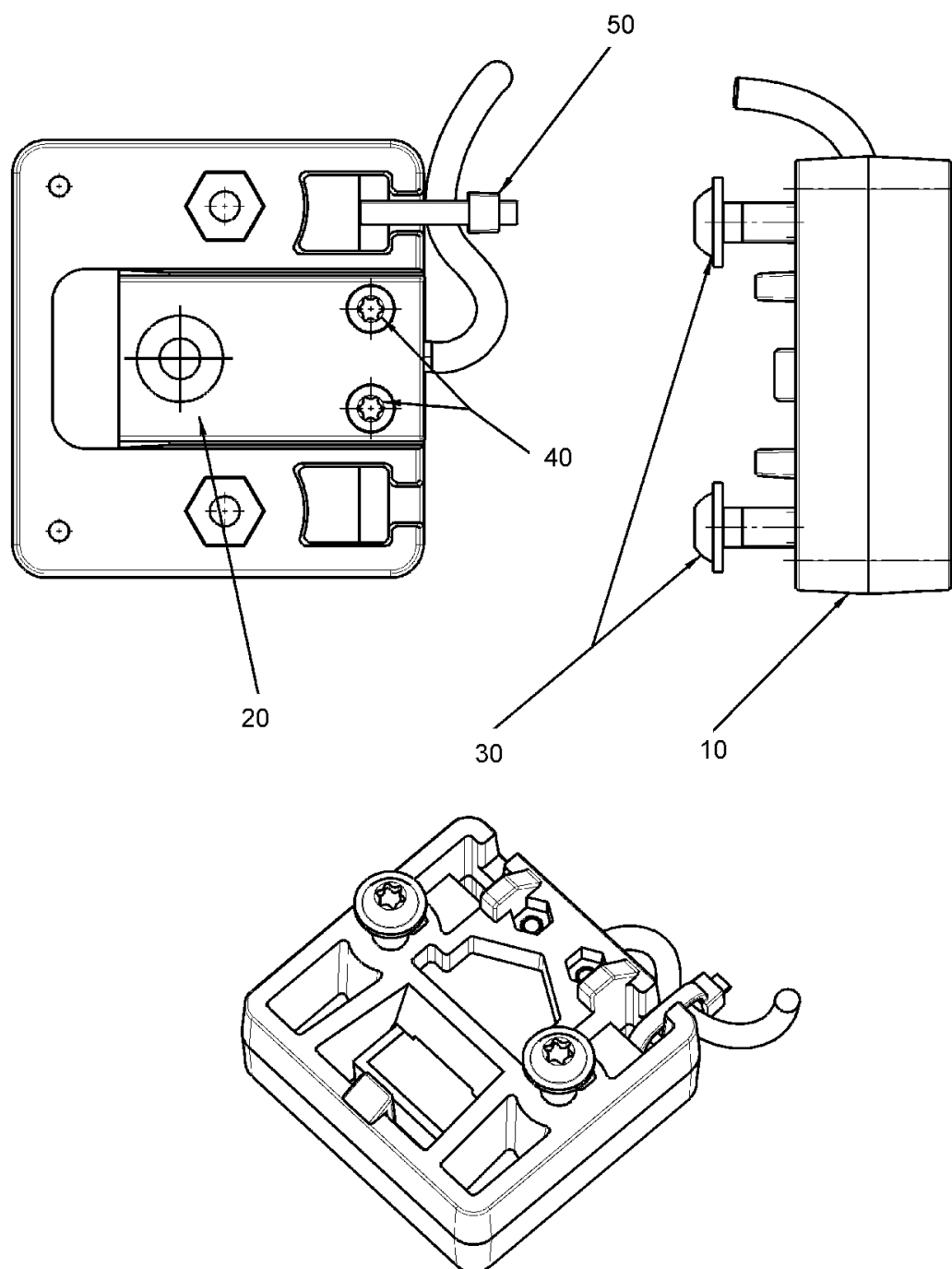
Connection group	51033982 09/06 050707 00 2
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Item	n	Order-Nr.	Description		
	1	51033982	Connection group	3,5x150//3,6x140	3,5x150//3,6x140
1	4	50117393	Screw	6,4	6,4
2	2	51041062	Nut		
3	2	26102680	Sheet metal nut		
7	3	50430751	Tie, Cable		
			3,5x150//3,6x140		
994	2	25303040	Nut		
995	2	25501510	Washer		
			6,4		
996	2	24002350	Screw		

Sensor unit

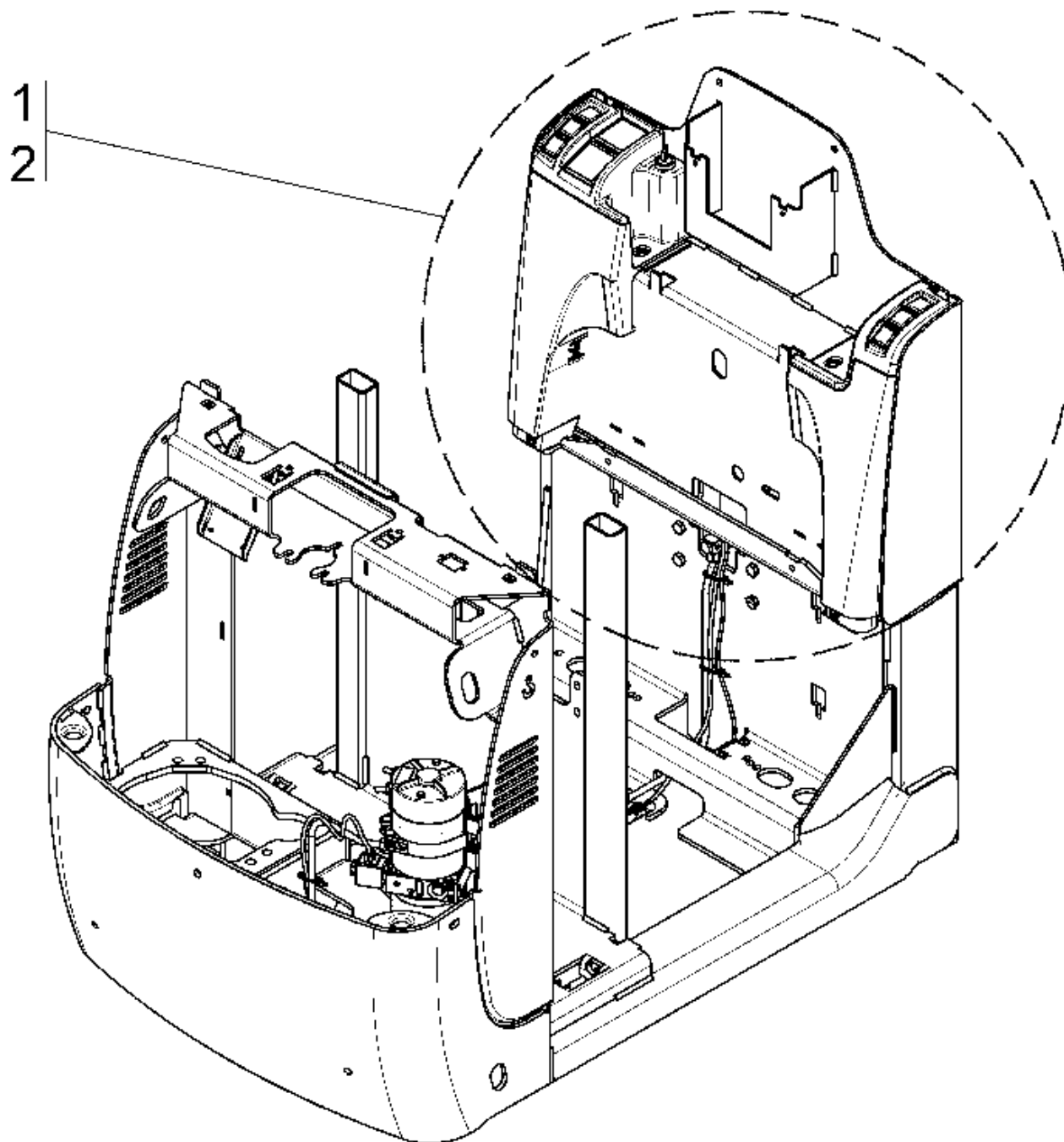
034830

51044789
09/06
200906 00 1



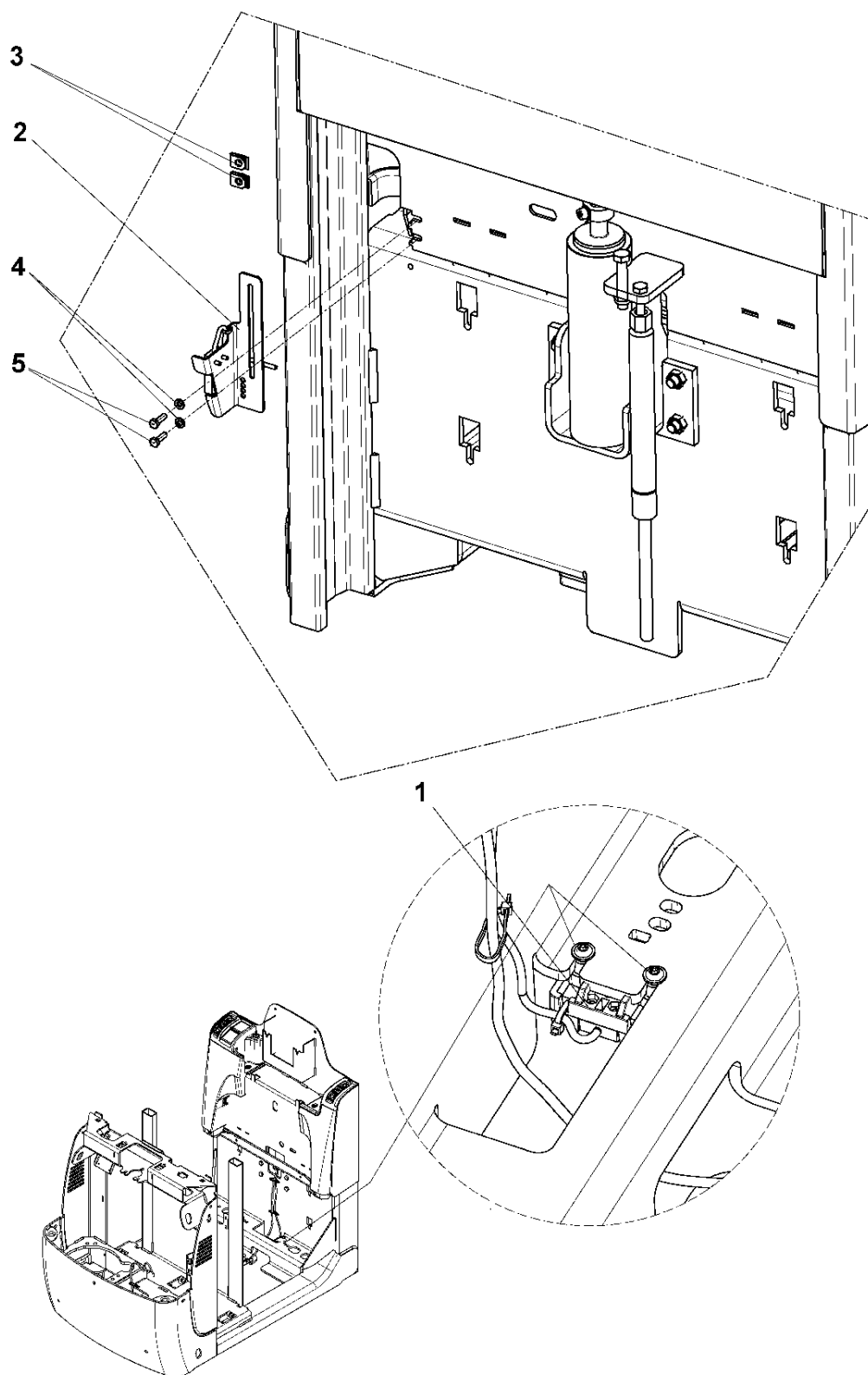
Sensor unit	51044789 09/06 200906 00 2
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Item	n	Order-Nr.	Description		
	1	51044789	Sensor unit	3,5x150//3,6x140	3,5x150//3,6x140
10	1	51044404	Bracket, Sensor		
20	1	51034146	Sensor		
30	2	51044729	Special screw		
40	2	51044730	Special screw		
50	1	50430751	Tie, Cable		
			3,5x150//3,6x140		



Instrument hood	Candis&Key	51052516 09/06 180906 00 2
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Item	n	Order-Nr.	Description
	1	51052516	Instrument hood
1	1	51011965	Candis&Key Instrument hood
2	1	51033982	Candis&Key-JH Connection group

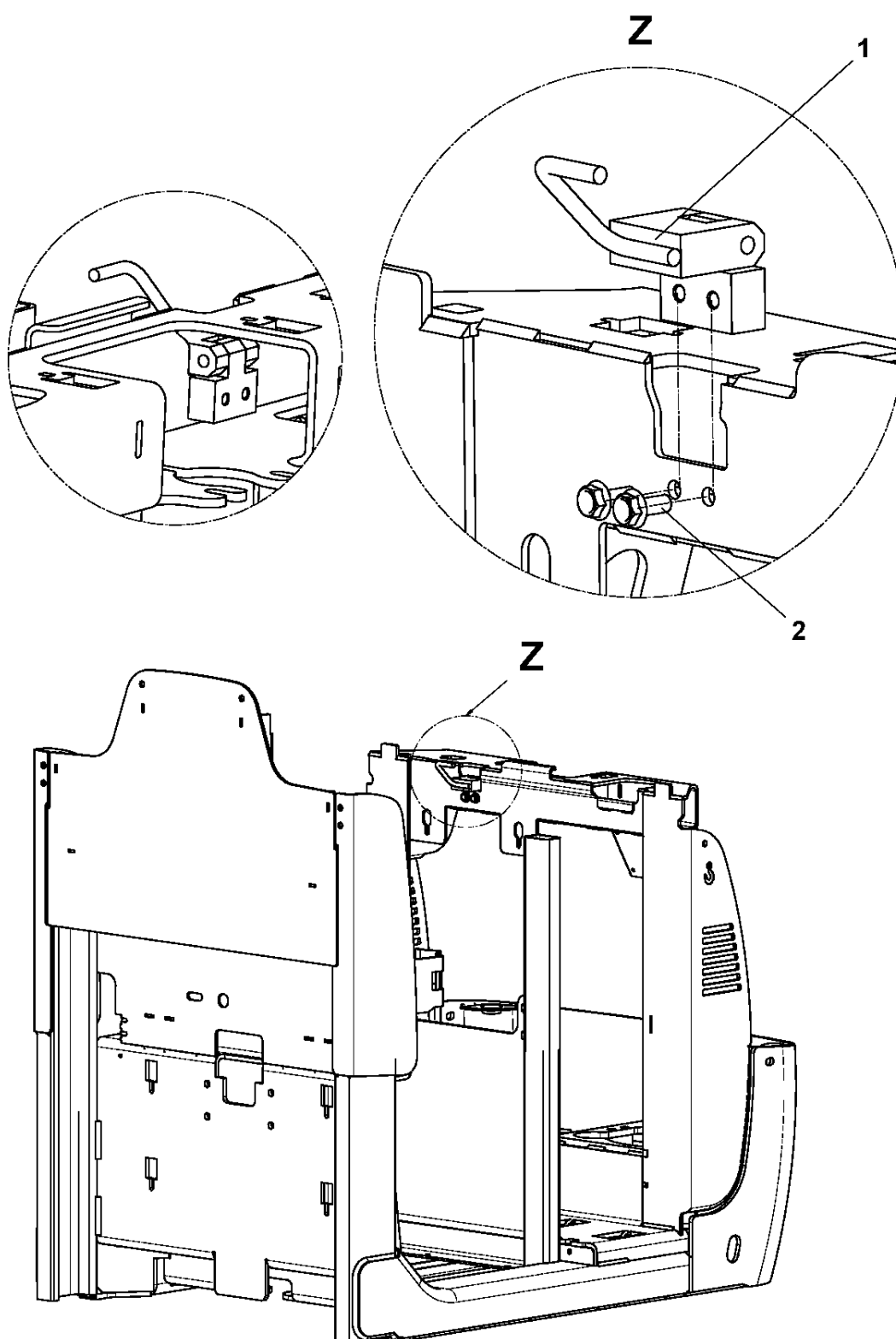


Cut-Off, Lift	51081752 07/07 050707 00 2
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Item	n	Order-Nr.	Description		
1	1	51081752	Cut-Off, Lift	6,4	6,4
2	1	51044789	Sensor unit		
3	2	51022302	Cut-off, Hoisting		
4	2	25303040	Nut		
5	2	25501510	Washer		
			6,4		
	2	24002350	Screw		

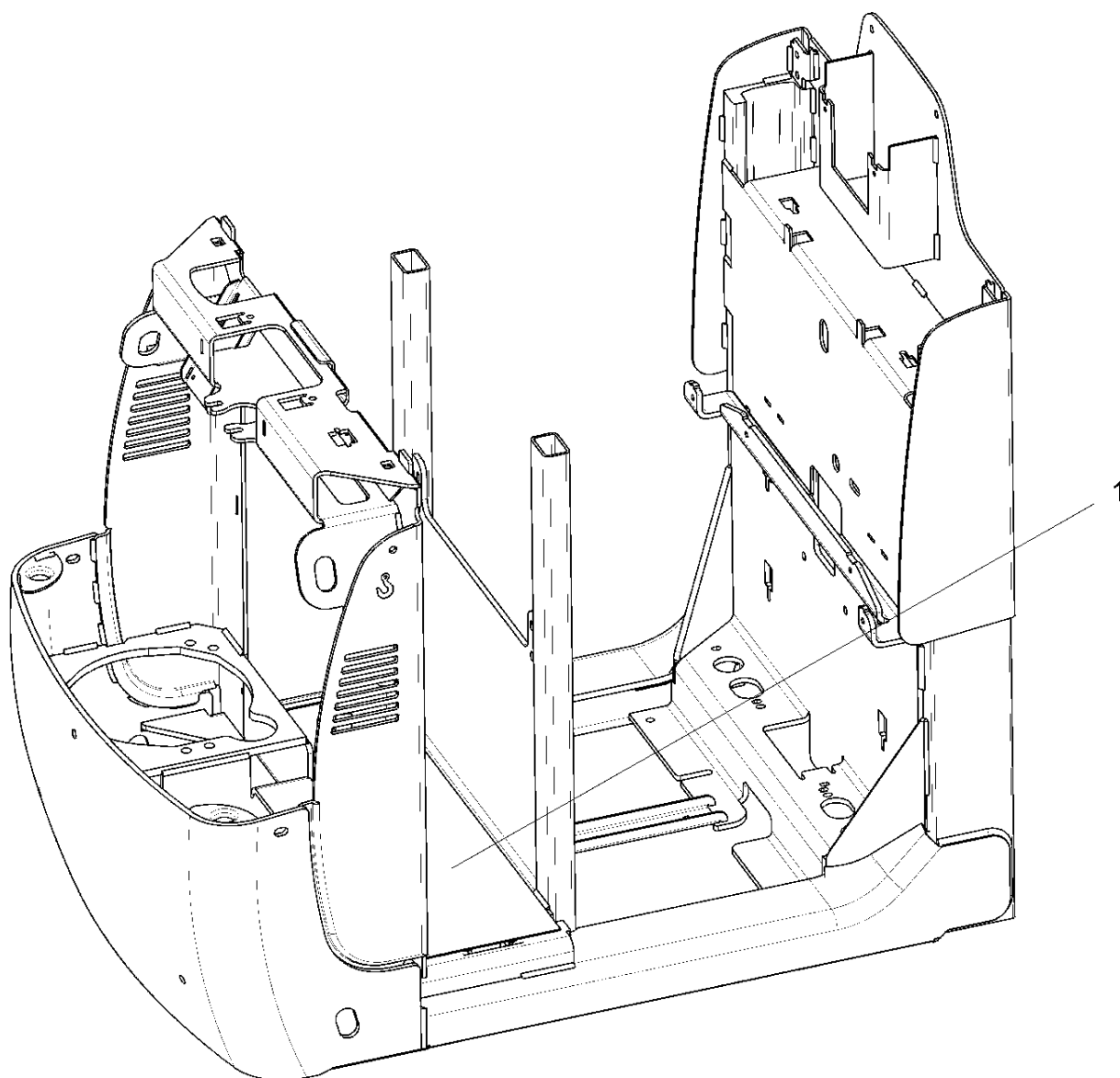
Battery / Charger

K



Battery safety device	51032424 06/06 081206 00 2
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Item	n	Order-Nr.	Description
	1	51032424	Battery safety device
1	1	51048196	Locking device
2	2	26102070	Screw



Battery accessories	51050763 10/06 241006 00 2
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Item	n	Order-Nr.	Description
1	1 1	51050763 50452458	Battery accessories Plate, Rubber

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