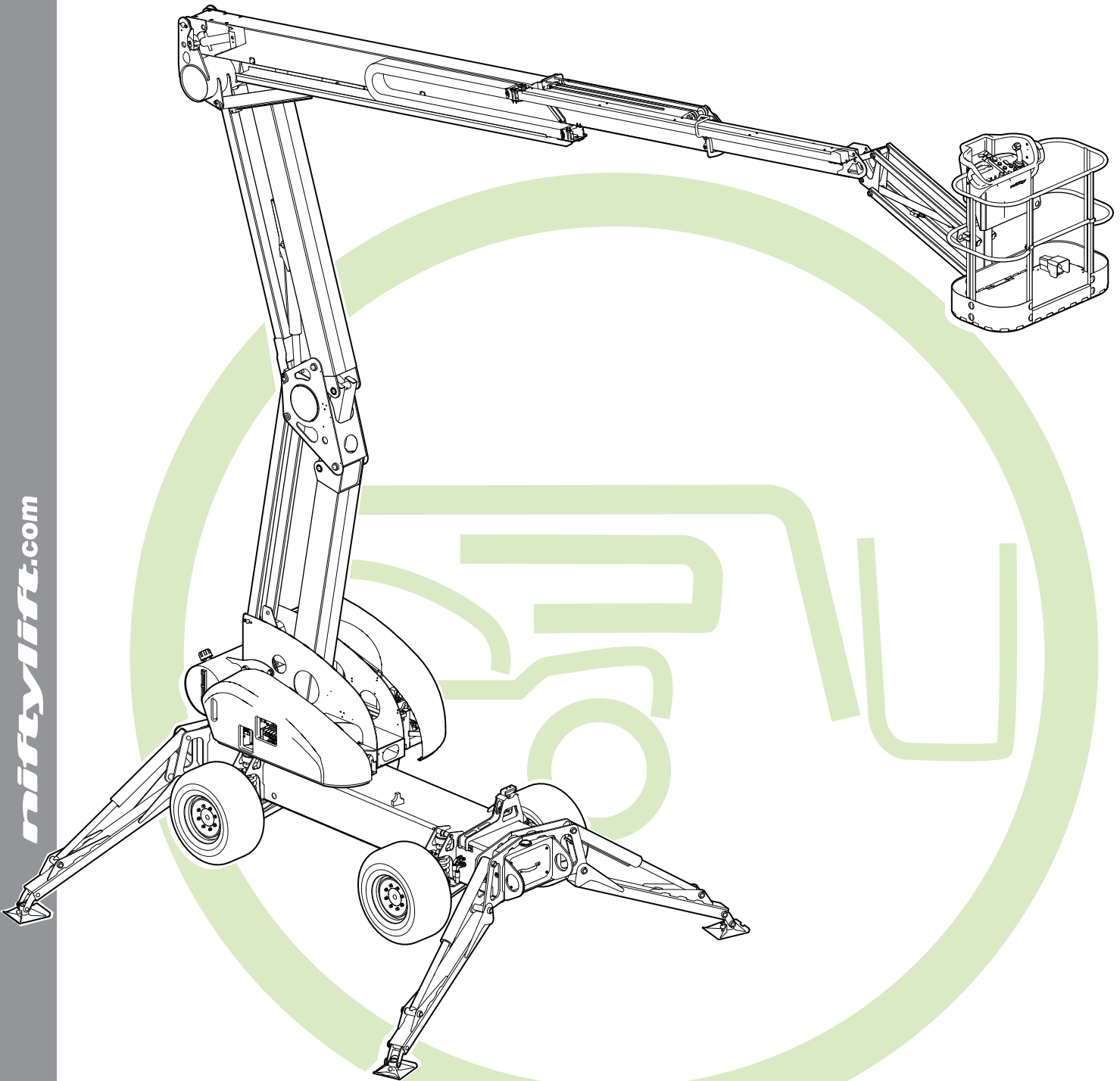




nifty

SD210 **SD64**



niftylift.com

M50180/08



Issue 8
(May 2016)

illustrated parts manual

Manuel illustré de pièces détachées

Illustrierte Stückliste

Manual de piezas ilustrado

Please Note, at the time of going to press, all information, illustrations details and descriptions contained herein are valid. Niftylift reserves the right to change, alter, modify or improve its products without any obligation to install them on previously manufactured machines.

Readers of this manual requiring further information should contact us at:

Niftylift Ltd.
Fingle Drive
Stonebridge
Milton Keynes
MK13 OER
United Kingdom

Niftylift Inc.
1525 S.Buncombe Road
Greer
SC 29651
USA

Tel +44 (0)1908 857899
 Fax +44 (0)1908 227460

1 864 968 8881
 1 864 968 8836

Ordering of Parts

When ordering a replacement part for your Niftylift product, please state the following:

- Machine Model and Serial number Niftylift Part number
- Full description of the part Quantity required
- Purchase Order number Destination address

Machine Information

Model number. Date of Purchase

Serial number

Veuillez noter qu'au moment de la mise sous presse, l'ensemble des informations, illustrations, détails et descriptions, contenus dans le présent document, sont valides. Niftylift se réserve le droit de changer ou d'améliorer ses produits sans obligation de montage sur les anciennes machines.

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SC 29651
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Commande de pièces

Lors de la commande de pièces de rechange pour votre machine Niftylift, veuillez indiquer ce qui suit:

- Modèle et numéro de série de la machine Référence de la pièce Niftylift
- Description complète de la pièce Quantité requise
- Numéro de commande Adresse de destination

Informations relatives à la machine

Numéro de modèle Date d'achat

Numéro de série



Bitte nehmen Sie zur Kenntnis, dass alle hierin enthaltenen Informationen, Illustrationen und Beschreibungen zum Zeitpunkt des Drucks gültig sind. Niftylift behält sich das Recht vor, Produkte zu wechseln, ändern, modifizieren und zu verbessern, ohne verpflichtet zu sein, sie an früher gefertigten Maschinen zu installieren.

Wenn Leser dieser Anleitung weitere Informationen benötigen, wenden sie sich bitte an uns unter:

Niftylift Ltd.
Fingle Drive
Stonebridge
Milton Keynes
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Großbritannien

Niftylift Inc.
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SC 29651
USA

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 1 864 968 8836

Bestellen von Ersatzteilen

Bei der Bestellung eines Ersatzteils für Ihr Produkt von Niftylift geben Sie bitte folgende Einzelheiten an:

- | | |
|---------------------------------------|---------------------|
| • Maschinenmodell und Seriennummer | Niftylift Art.-Nr. |
| • Ausführliche Beschreibung des Teils | Erforderliche Menge |
| • Bestellnummer | Bestimmungsadresse |

Maschineninformationen

Modellnummer Kaufdatum.
 Seriennummer.

Por favor, observe que en el momento de pasar a imprenta, toda la información, ilustraciones y descripciones contenidas en el presente documento eran válidas. Niftylift se reserva el derecho de cambiar, alterar, modificar o mejorar sus productos, sin obligación alguna de instalar dichos cambios en máquinas fabricadas anteriormente.

Los usuarios de este manual que requieran más información, deberán ponerse en contacto con nosotros en:

Niftylift Ltd.
Fingle Drive
Stonebridge
Milton Keynes
MK13 OER
United Kingdom

Niftylift Inc.
1525 S.Buncombe Road
Greer
SC 29651
USA

Tel +44 (0)1908 857899
 Fax +44 (0)1908 227460

1 864 968 8881
 1 864 968 8836

Pedido de piezas

Al realizar el pedido de una pieza de recambio para su producto Niftylift, sírvase especificar lo siguiente:

- | | |
|--|---------------------------|
| • Modelo y número de serie de la máquina | Número de pieza Niftylift |
| • Descripción completa de la pieza | Cantidad requerida |
| • Número de orden de compra | Dirección de destino |

Información de la máquina

Número de modelo Fecha de compra
 Número de serie



Parts Order Form (make copies for use)

niftylift**Bon de commande de pièces** (Faire des photocopies pour vos commandes ultérieures)**tel +44 (0)1908 857899****Bestellformular für Ersatzteile** (bitte Kopien zur zukünftigen Verwendung machen)**fax +44 (0)1908 227460****Impreso de pedido de piezas** (haga copias para el uso)**www.niftylift.com****name** nom name nombre**date** date datum fecha**address** adresse adresse dirección

delivery address

adresse de livraison

lieferadresse

dirección de entrega

telephone téléphone tel.-Nr. teléfono**fax** fax-Nr.**email** e-mail**purchase order number**

numéro de commande

bestellnummer

número de orden de compra

Part Number Référence pièce Art.-Nr. Número de pieza	description description beschreibung descripción	quantity quantité menge cantidad	price prix preis precio
P			
P			
P			
P			
P			
P			
P			
P			

Note: If items have decals/labels attached, these are **not included** (unless stated otherwise), they must be ordered separately using the part (P) number printed on the decal.

Remarque : si les composants sont dotés d'autocollants/étiquettes, ceux-ci **ne sont pas inclus** (sauf avis contraire). Ils doivent être commandés séparément en indiquant le numéro de référence (P) imprimé sur l'autocollant.

Anmerkung: Wenn an Gegenständen Klebebilder/Etiketten angebracht sind, sind diese (sofern nicht anders angegeben) **nicht enthalten** und müssen separat mit Hilfe der auf den Klebebildern abgedruckten Teilenummern (P) bestellt werden.

Nota: Si los artículos llevan acopladas calcomanías/etiquetas, éstas **no se incluirán** (a menos que se indique lo contrario); deberán pedirse por separado utilizando el número de pieza (P) impreso en la calcomanía.

Alternatively, details of your order can be emailed to **service@niftylift.com**

Alternativement, le détail de votre commande peut nous être envoyé par email à **service@niftylift.com**

Als Alternative können Sie Ihre Bestellung auch an **service@niftylift.com** senden

Alternativamente, los detalles de su pedido pueden enviarse por e-mail a **service@niftylift.com**

1

chassis

page

1.1	Base assembly	1-2
1.2	Axle assembly	1-4
1.3	Stabiliser assembly	1-6

2

superstructure

page

2.1	Superstructure assembly	2-2
2.2	Power tray assembly	2-6
2.3	Diesel engine (Part 1)	2-8
2.4	Diesel engine (Part 2)	2-10
2.5	Control valve (6 spool)	2-12
2.6	Base control box	2-14
2.7	Base control box (USA - SD64)	2-16
2.8	PCB control box	2-18
2.9	Safety box assembly	2-20
2.10	Main valve block	2-22
2.11	Drive Control valve block	2-24
2.12	Booms valve block	2-26

3

boom assemblies

page

3.1	Links assembly	3-2
3.2	Telescope assembly (Part 1)	3-6
3.3	Telescope assembly (Part 2)	3-12
3.4	Lift and Luffing cylinder	3-14
3.5	Levelling cylinders	3-16
3.6	Levelling valve	3-18
3.7	Energy chain	3-20

4

cage and flyboom

page

4.1	toughCage assembly	4-2
4.2	Cage assembly	4-4
4.3	Cage console assembly	4-6
4.4	SiOPS™ assembly	4-8
4.5	Cage rotate assembly	4-10
4.6	Flyboom assembly	4-12
4.7	Flyboom cylinder	4-14
4.8	Control panel assembly	4-16
4.9	Control panel assembly (USA - SD64)	4-18
4.10	Control valve (6 spool)	4-20

5

labelling

page

5.1	Label locations	5-2
-----	-----------------------	-----

Figures

page

1.1	Base assembly	1-3
1.2	Axle assembly	1-5
1.3	Stabiliser assembly	1-7
2.1	Superstructure assembly	2-3
2.2	Power tray assembly	2-7
2.3	Diesel engine (Part 1)	2-9
2.4	Diesel engine (Part 2)	2-11
2.5	Control valve (6 spool)	2-13
2.6	Base control box	2-15
2.7	Base control box (USA - SD64)	2-17
2.8	PCB control box	2-19
2.9	Safety box assembly	2-21
2.10	Main valve block	2-23
2.11	Drive Control valve block	2-25
2.12	Booms valve block	2-27
3.1	Links assembly	3-2
3.2	Telescope assembly (Part 1)	3-7
3.3	Telescope assembly (Part 2)	3-13
3.4	Lift and Luffing cylinder	3-15
3.5	Levelling cylinders	3-17
3.6	Levelling valve	3-19
3.7	Energy chain	3-21
4.1	toughCage assembly	4-3
4.2	Cage assembly	4-5
4.3	Cage console assembly	4-7
4.4	SiOPS™ assembly	4-9
4.5	Cage rotate assembly	4-11
4.6	Flyboom assembly	4-13
4.7	Flyboom cylinder	4-15
4.8	Control panel assembly	4-17
4.9	Control panel assembly (USA - SD64)	4-19
4.10	Control valve (6 spool)	4-21
5.1	Label locations	5-11
5.2	Labels (1-37)	5-12
5.3	Labels (38-54)	5-13

table des matières
inhaltsverzeichnis
tabla del contenido

contents

p vii

Issue Records

Chapter	Pages	Issue	Date	Comments/Changes
Introduction	8	8	05/2016	Eighth issue
1	8	7	05/2016	Revisions on page 1-2
2	28	8	05/2016	Eighth issue
3	22	5	04/2014	Revisions on pages 3-2/6 and 3-14
4	22	7	05/2016	Revisions on pages 4-14 to 4-17
5	14	4	09/2012	Fourth issue

* When ordering parts for machines other than the stated serial number, it is advisable to contact the Parts Department;

	United Kingdom	USA
<i>Tel</i>	+44 (0)1908 857899	1 864 968 8881
<i>Fax</i>	+44 (0)1908 227460	1 864 968 8836
<i>Email</i>	service@niftylift.com	niftyusa@niftylift.com



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SD210 (SD64)

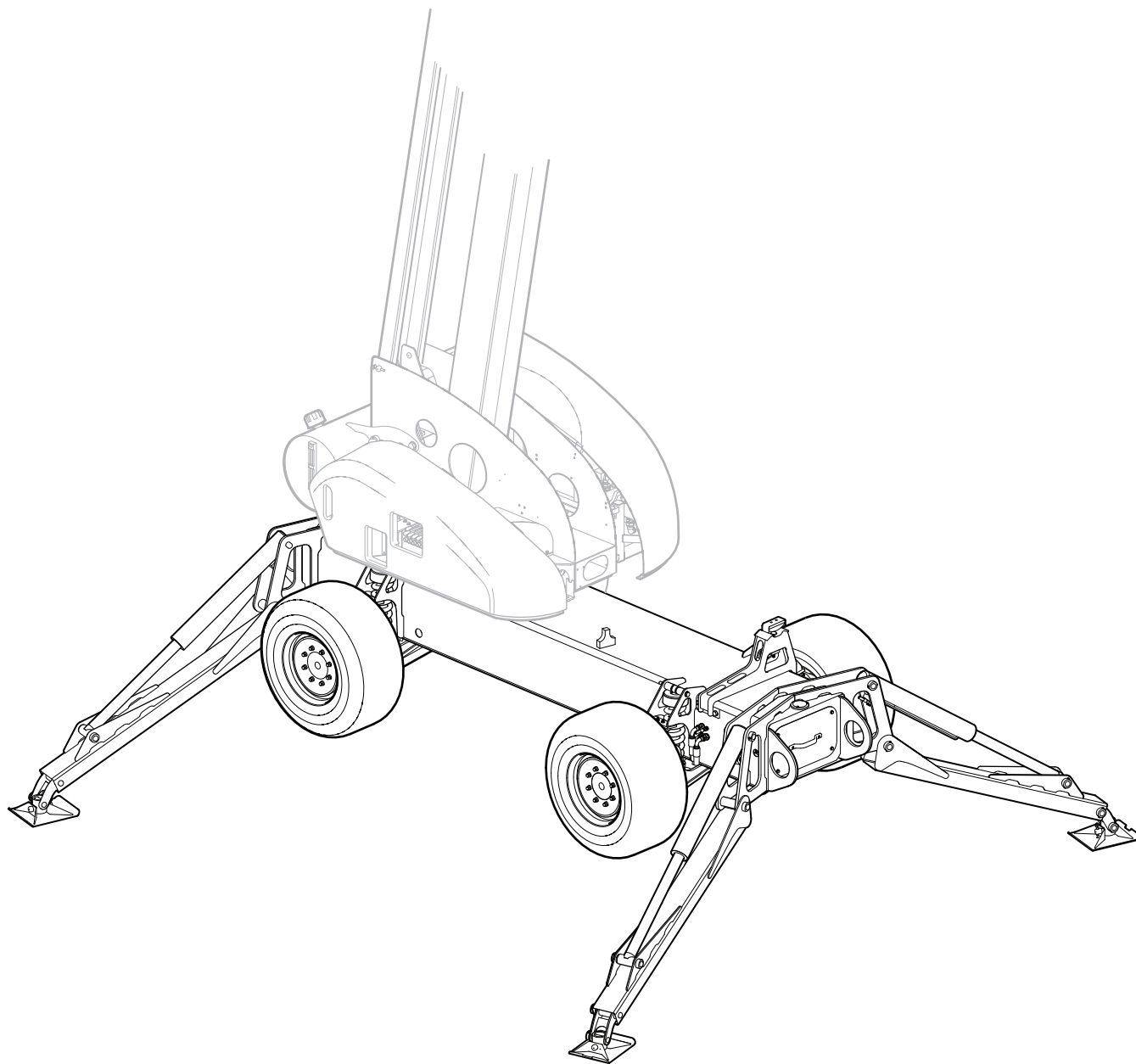


illustrated parts manual

Manuel illustré de pièces détachées

Illustrierte Stückliste

Manual de piezas ilustrado



1

chassis assembly

french
german
spanish

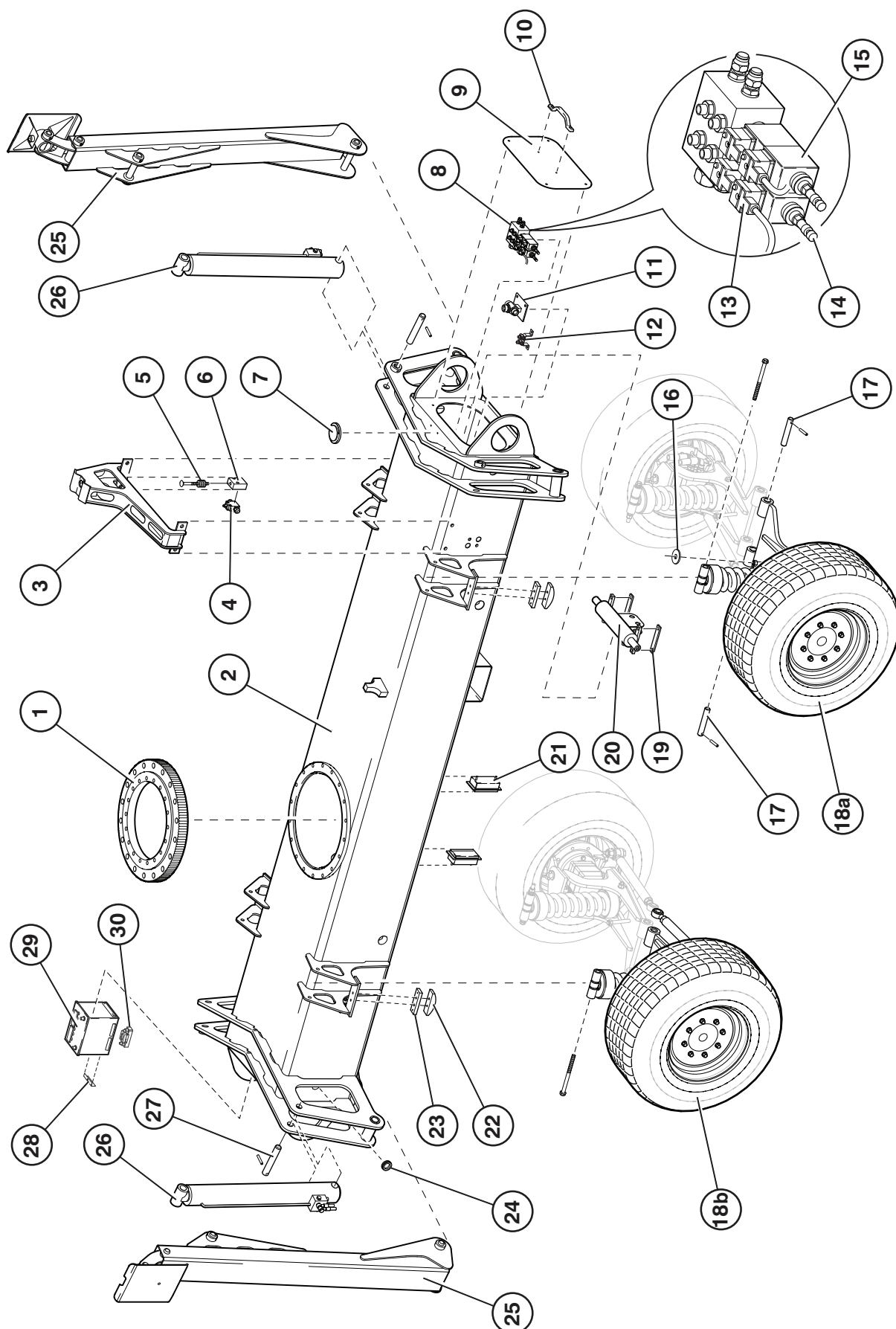
1.1 Base assembly

Item	Description	Part Number
------	-------------	-------------

1	Slew Ring	P15541
2	Base	P21579
3	Booms down rest	P17443
4	Microswitch	P30387
5	Spring	P13372
6	Block	P31205
7	Spirit Level	P17801
8	Solenoid assembly <i>Includes items 14 & 15</i>	P16407
9	Access Panel	P17688
10	Handle	P10241
11	Bracket & T-piece	P23923
12	Bracker/T-piece 1/4"	P24569
13	Solenoid Cap	P18461
14	Cartridge	P16850
15	Coil	P15697
16	Washer	P11608
17	Pin - 146mm	P12955
18	Swing Axle Assy a) RH Front/LH Rear b) LH Front/RH Rear <i>See "Axle assembly" on page 1-4.</i>	N/A
19	Wear pad	P19220
20	Steer cylinder * Seal kit	P16729 P25484
21	Junction box	P10077
22	Nylon D-Pad	P16877
23	Rubber spacer	P16883
24	Grommet	P11283
25	Stabiliser <i>See "Stabiliser assembly" on page 1-6.</i>	N/A
26	Cylinder <i>See "Stabiliser assembly" on page 1-6.</i>	P31678
27	Pin - 169mm	P15952
28	Battery clamp	P12295

* Not illustrated

29	Battery				P15333
30	Fuse - 125A Fuse holder				P12696 P11976



french
german
spanish

chassis assembly

1-3

1.2 Axle assembly

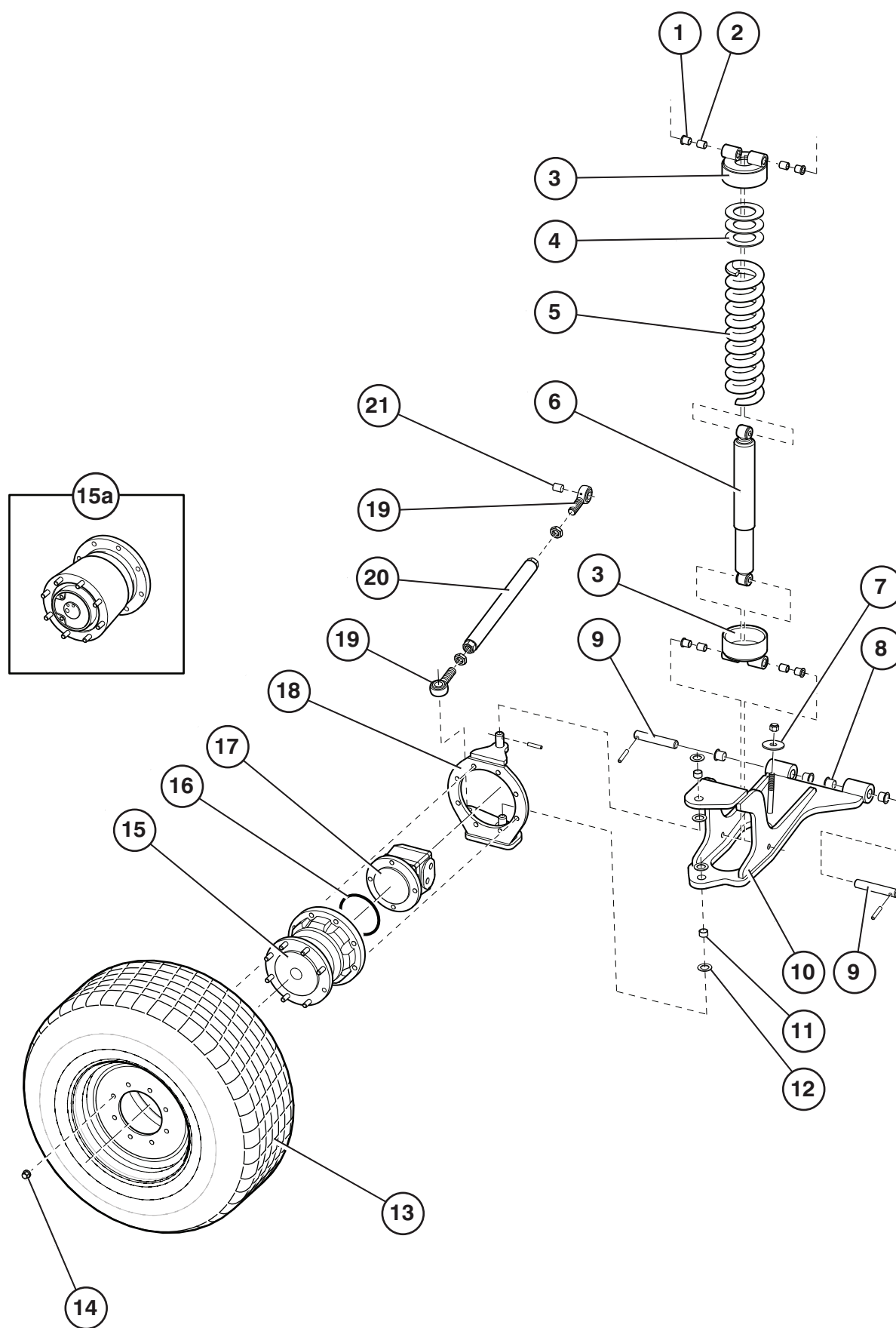
Item	Description	Part Number			
1	Bush (Top hat)				P17746
2	Bush				P17748
3	Cap - Suspension				P17262
4	Shim (Rear Axle Only)				P17392
5	Spring				P16900
6	Shock absorber				P17263
7	Washer				P11608
8	Bush (Top hat)				P12250
9	Pin - 146mm				P12955
10	Swing axle RH Front/LH Rear *LH Front/RH Rear				P16624 P16606
11	Bush				P20077
12	Washer				P10594
13	Wheel & Tyre Tyre ONLY				P24198 P27528
14	Wheel nut				P12828
15	Gearbox a) Alternative				P25480 P19110
16	Seal kit (Motor/Gearbox)				P18122
17	Motor				P12526
18	Steer hub RH Front/LH Rear *LH Front/RH Rear				P16607 P16608
19	Track rod end				P16706
20	Track rod				P16617
21	Shim				P17741

* Not illustrated

Note: Items listed in item 15 cannot be mixed on the same machine

french
german
spanish

chassis assembly



french
german
spanish

chassis assembly

1-5

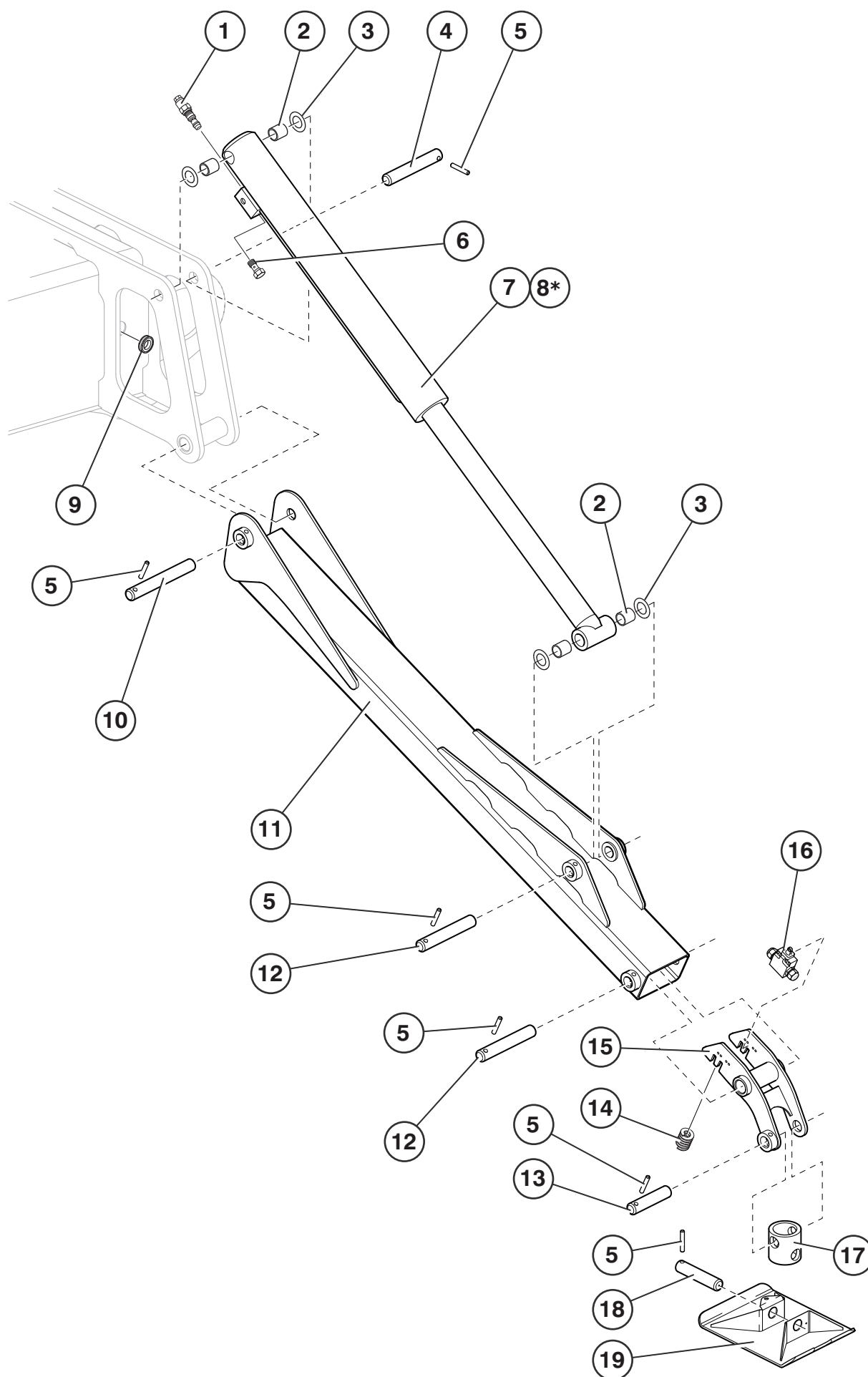
1.3 Stabiliser assembly

Item	Description				Part Number
1	Load valve				P11956
2	Bush				P10880
3	Washer - plastic				P10511
4	Pin - 169 mm				P15952
5	Roll pin (10x50mm)				N/A
6	Check valve				P17317
7	Cylinder				P31678
8 *	Seal kit for item 7				P27072
9	Grommet				P11283
10	Pin - 220mm				P19219
11	Stabiliser				P16632
12	Pin - 180mm				P19218
13	Pin - 130mm				P15639
14	Spring				P13372
15	Rocker arm				P16709
16	Microswitch				P18937
17	Swivel block				P15576
18	Pin - 140mm				P15958
19	Jack foot				P21035

* Not illustrated

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chassis assembly



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chassis assembly



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SD210 (SD64)

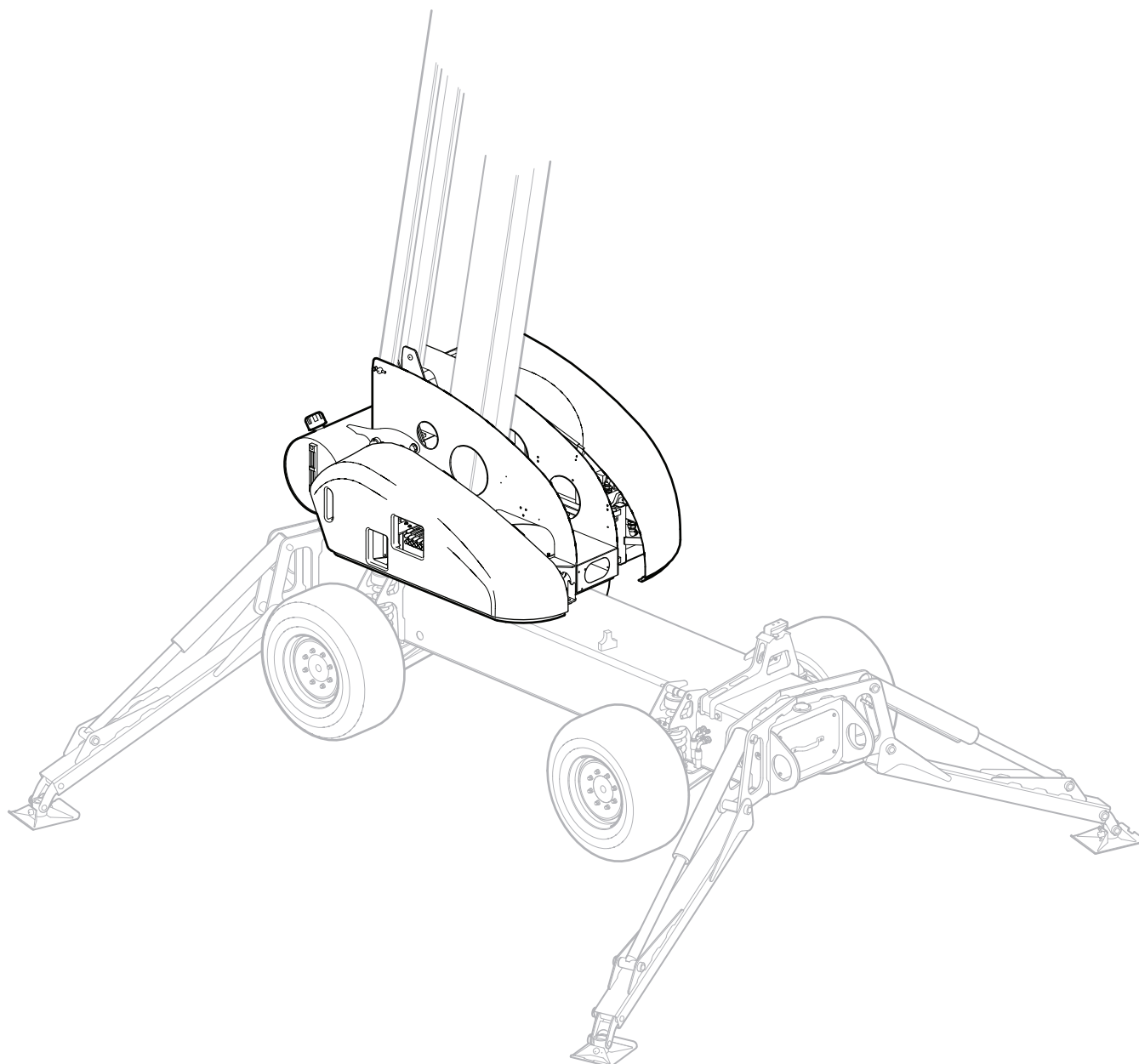


illustrated parts manual

Manuel illustré de pièces détachées

Illustrierte Stückliste

Manual de piezas ilustrado



2



superstructure

**french
german
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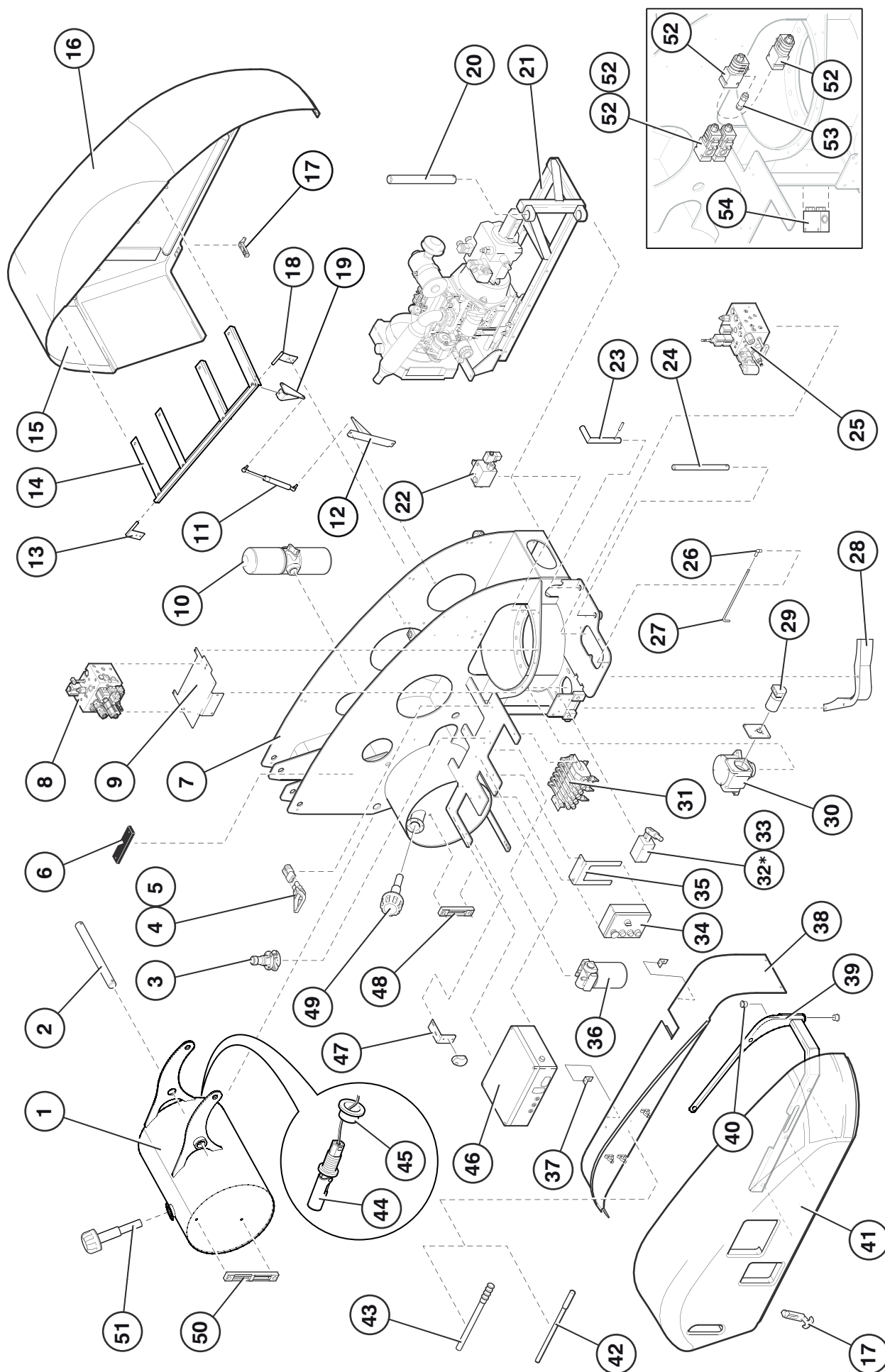
2.1 Superstructure assembly

Item Description Part Number

1	Diesel Tank				P17407
2	Pin - 436 mm				P16465
3	Tilt sensor				P16136
4	Anderson connector				P17083
5	Handle - 2 pole				P17084
6	Rubber pad				P17886
7	Superstructure				P20162
8	Main valve block See "Main Valve block" on page 2-22.				P18450
9	Mounting plate				P16127
10	Suction Filter Cartridge ONLY				P24825 P24838
11	Gas strut				P16953
12	Bracket - (Gas Strut)				P17707
13	Hinge - Left Rear				P18264
14	Canopy support				P17647
15	Mesh - Canopy				P16593
16	Canopy - Power tray				P16423
17	Rubber catch				P14454
18	Hinge - Left Front				P13361
19	Bracket - (Canopy)				P17708
20	Pin - 367 mm				P12693
21	Power tray assembly See "Power tray assembly" on page 2-6.				N/A
22	Booms control valve See "Booms Valve block" on page 2-26.				P18449
23	Slew locking pin				P16579
24	Pin - 310mm (Canopy)				P16578
25	Drive Control Valve See "Drive Control Valve block" on page 2-24.				P18448
26	Ball joint - Stay				P16744
27	Stay - Control canopy				P16553

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superstructure



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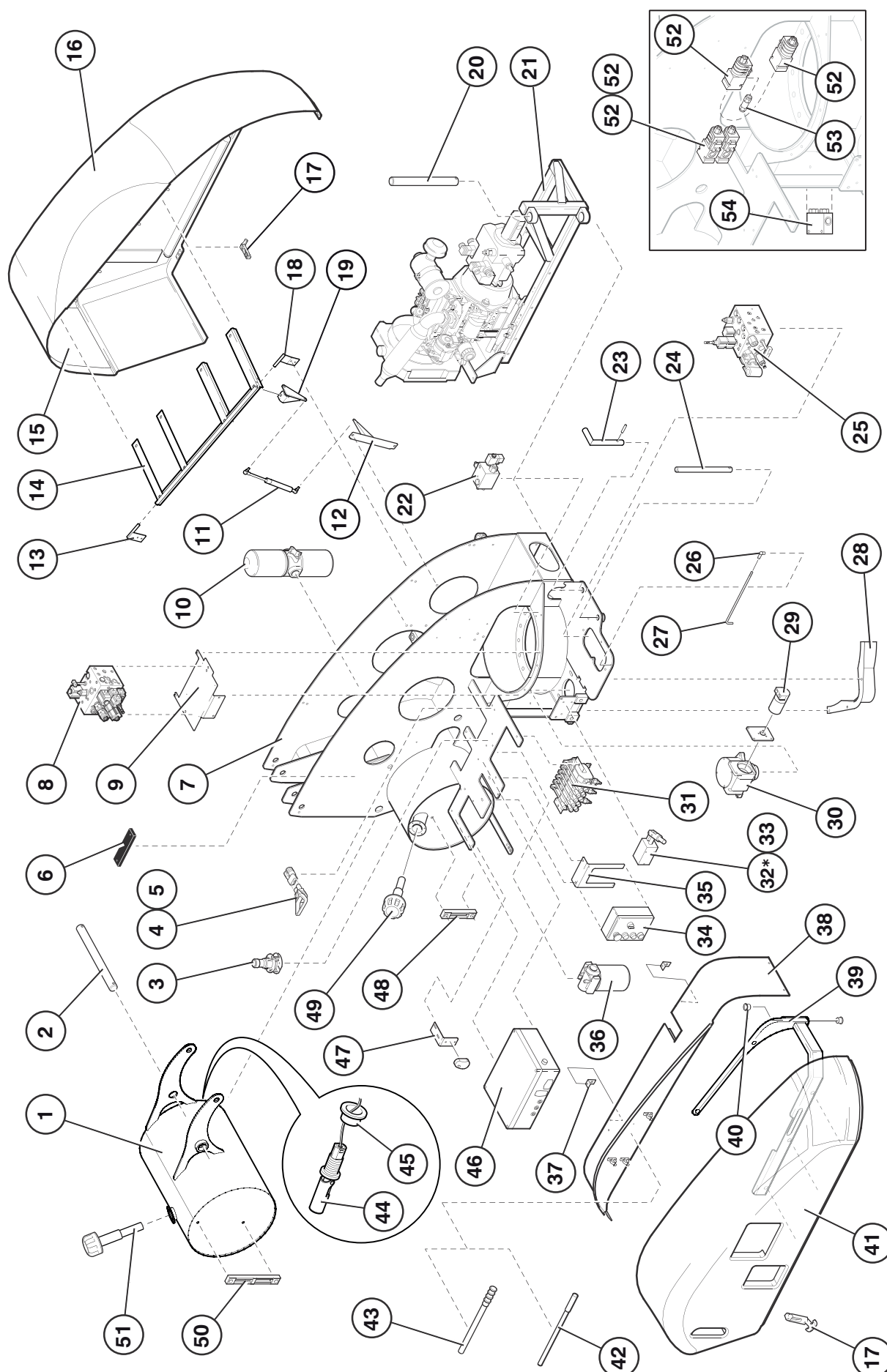
superstructure

2.1 continued

Item	Description				Part Number
28	Slew guard				P16061
29	Slew motor				P15686
30	Slew gearbox				P15672
31	Control Valve See "Control valve (6 spool)" on page 2-12.				P22646
32 *	Seal kit for item 33				P22605
33	Hand pump				P22570
34	Base control box See "Base control box" on page 2-14.				N/A
35	Mounting plate				P16538
36	Return filter assy. Cartridge ONLY				P16448 P16976
37	Bracket				P28096
38	Canopy - Central				P16563
39	Support - Canopy				P18382
40	Bush - Top hat				P12250
41	Canopy - Control				P16461
42	Handle - Drive control valve				P17662
43	Handle - Handpump				P10624
44	Level sensor				P12935
45	Rubber grommet				P15549
46	PCB box See "PCB control box" on page 2-18.				P29122 or P25718
47	Bracket - Canopy stop Rubber buffer				P24568 P16982
48	Temp/Level gauge - Oil				P13253
49	Filler breather				P21130
50	Temp/Level gauge - Fuel				P13252
51	Filler cap/strainer				P16464
52	Valve, Dump				P26939
53	Non-return valve 1/4"				P10107

* Not illustrated

54	Check valve, Dual			P28809
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superstructure

2-5

2.2 Power tray assembly

Item Description Part Number

1	Engine pump				P22071
2	Swash pump				P24851
3 *	Seal kit for item 2				P21649
4	Solenoid valve				P19259
5	Drive hub				P19802
6	Drive flange				P19801
7	Diesel engine See "Diesel engine - Part 1" on page 2-8.				P20579
8	Pressure Filter Element ONLY * Indicator *				P24797 P24799 P24798
9	Bracket				P24947
10	Pin - 367mm				P12693
11	Expansion bottle				P19271
12	Fuel pump				P24978
13	Engine support (Rear LH)				P16426
14	Engine support (Front LH)				P16424
15	Rubber mount				P12238
16	Plate - Engine mount				P16459
17	Fuse - 125A Fuse holder				P12696 P11976
18	Power tray				P16429
19	Wear pad				P16172
20	Rubber buffer				P16982
21	Handle				P10241
22	Engine support (Front RH)				P16427
23	Engine support (Rear RH)				P16425
24	Engine pump * Seal kit Flow divider	Australia ONLY			P19154 P21150 P20860

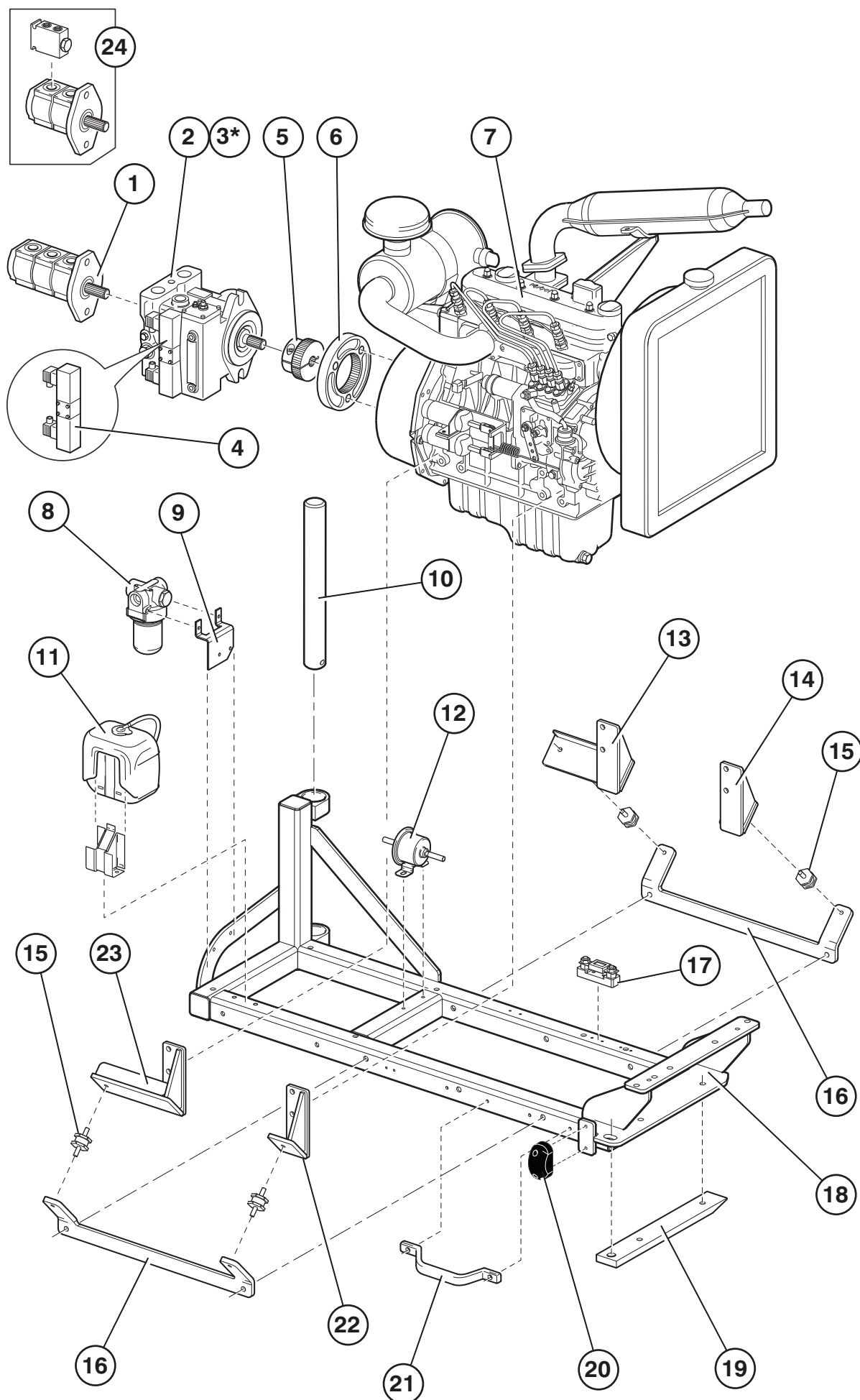
* Not illustrated

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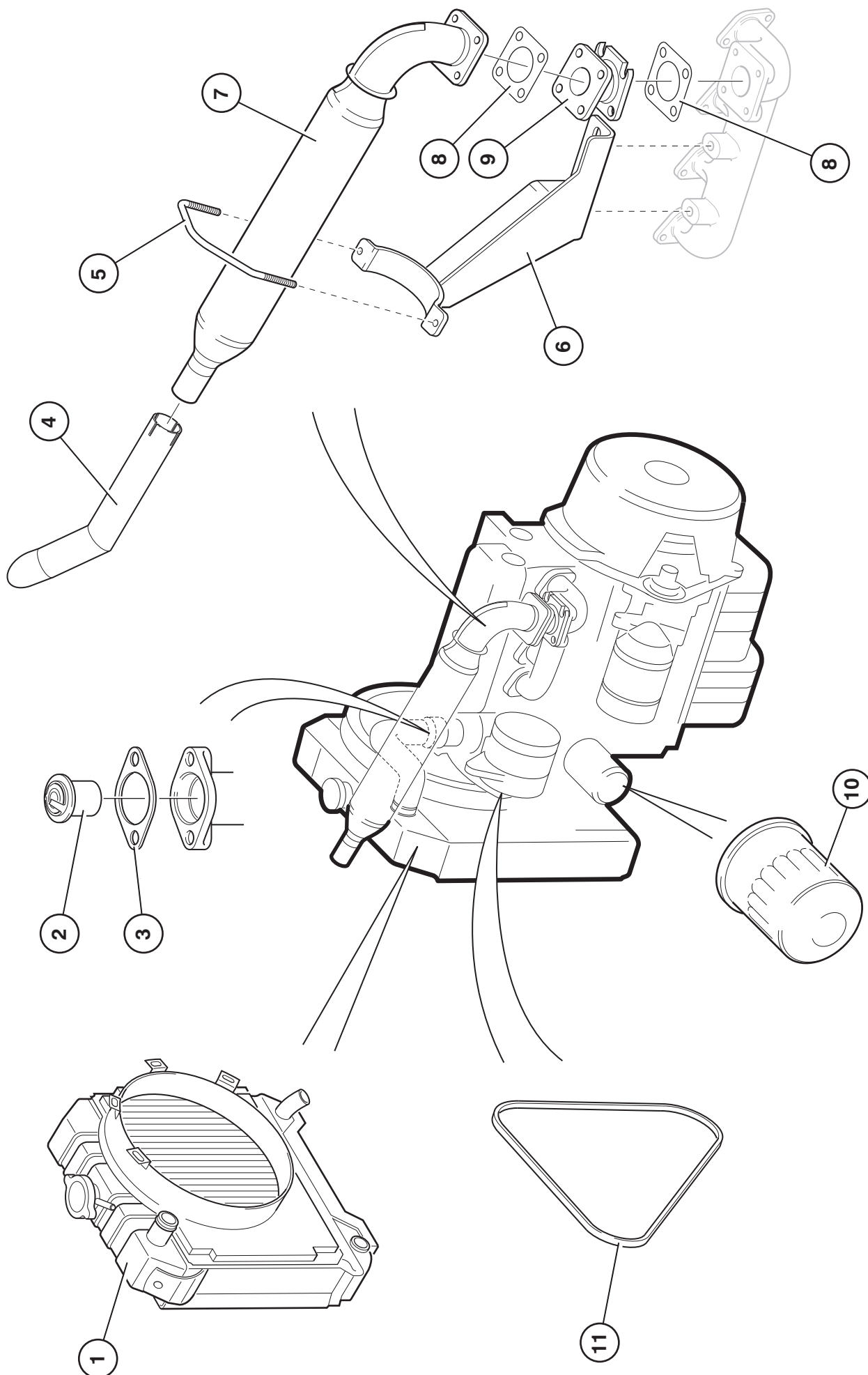


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spanish

superstructure

2.3 Diesel engine - Part 1

Item	Description				Part Number
	V1505 engine				P20579
1	Radiator assembly				P19618
2	Thermostat				P15252
3	Gasket				P15259
4	Exhaust pipe end				P16863
5	Clamp				P16994
6	Support bracket				P24594
7	Muffler				P17588
8	Muffler gasket				P13282
9	Spacer - Exhaust				P17888
10	Oil filter cartridge				P15249
11	V-belt (Alternator)				P15256



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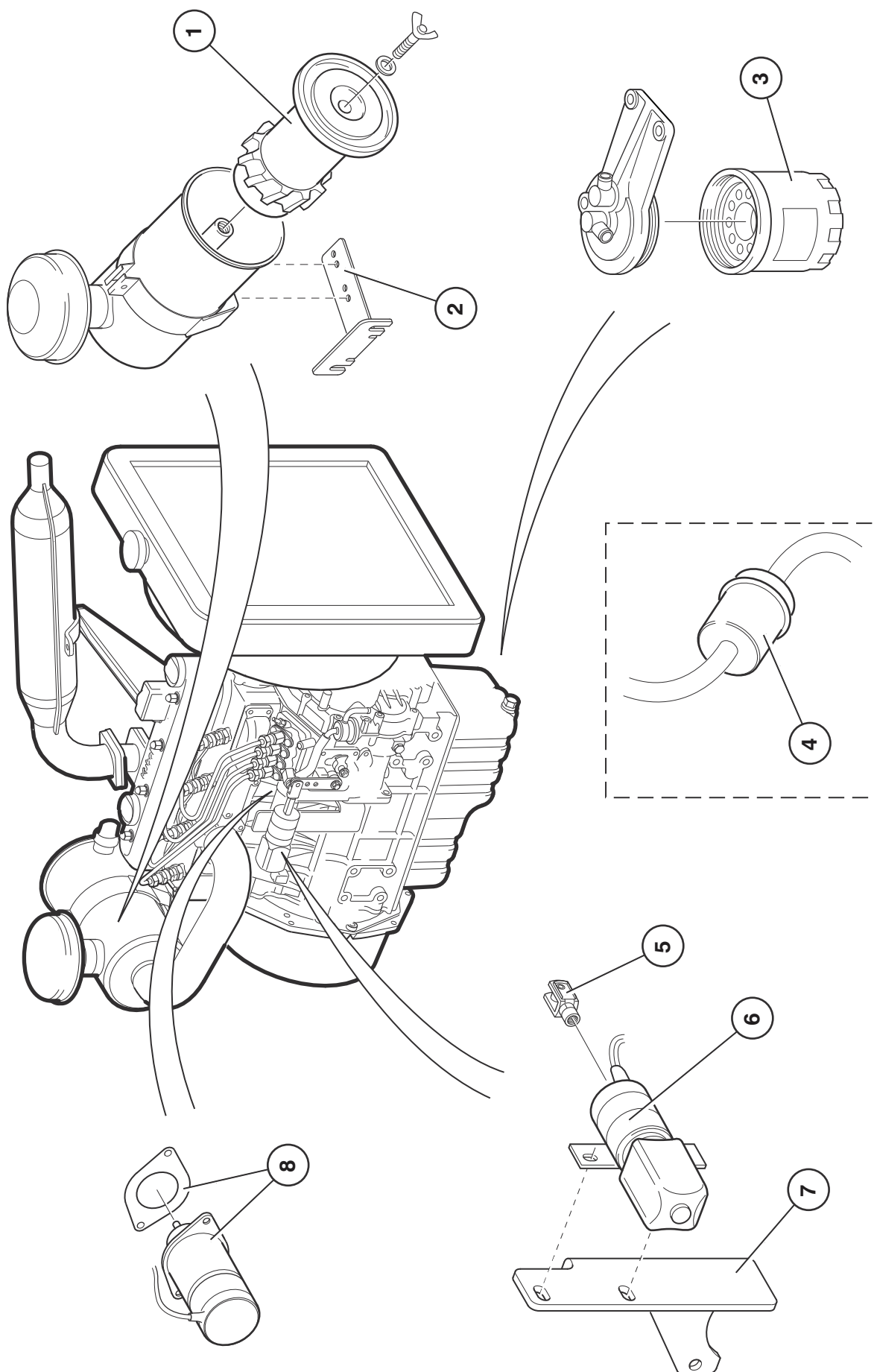
superstructure

2.4 Diesel engine - Part 2

Item	Description				Part Number
1	Air filter element				P15254
2	Support bracket				P18541
3	Fuel filter - Cartridge ONLY				P15251
4	In-line fuel filter (Located in chassis)				P13324
5	Clevis end				P14284
6	Throttle solenoid				P18796
7	Mounting bracket				P18484
8	Stop solenoid and gasket				P15250

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superstructure

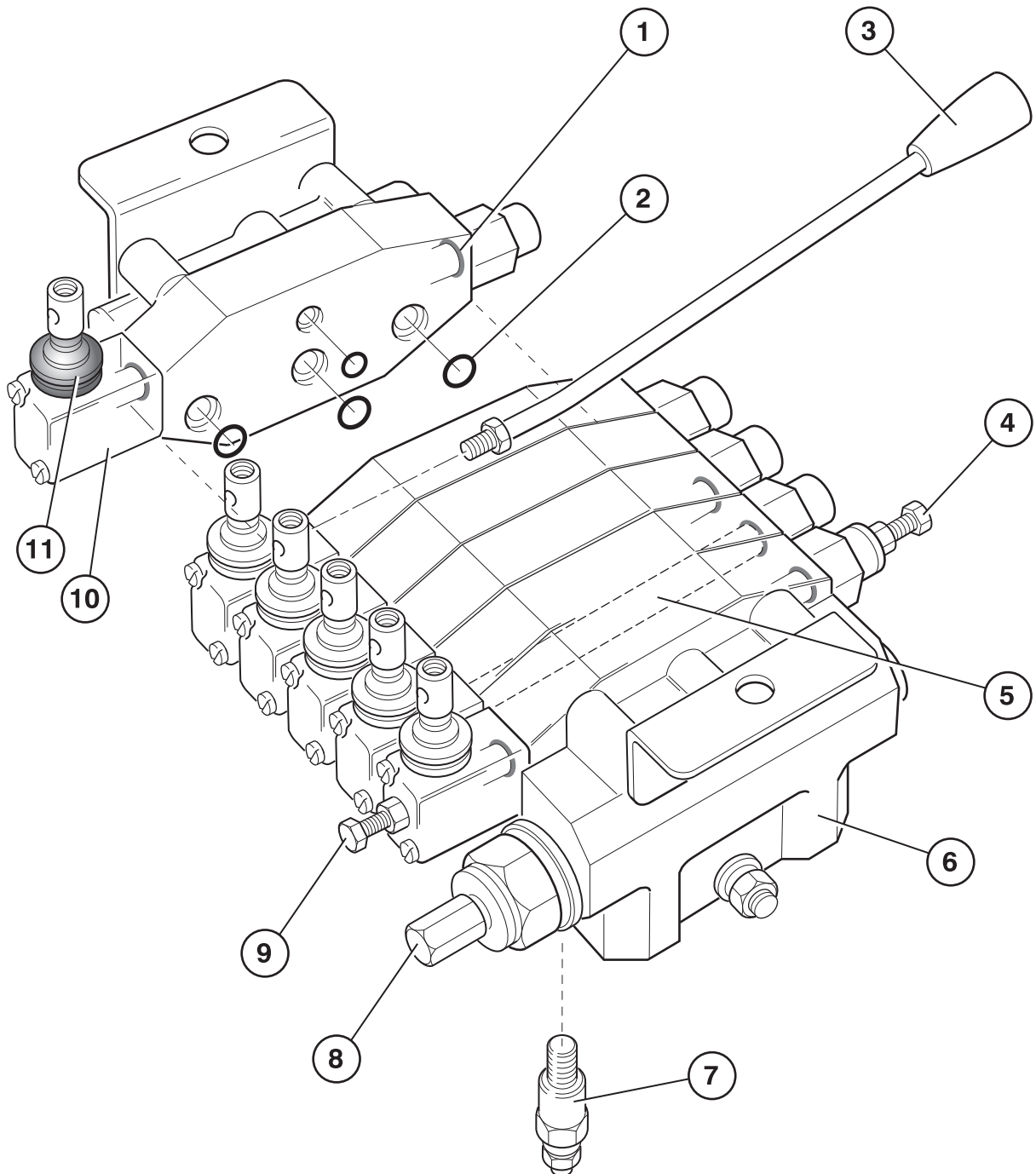


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superstructure

2.5 Control valve (6 spool)

Item	Description				Part Number
1	Valve seal kit				P10707
2	Interface seal kit				P10706
3	Lever (200mm)				P70336
4	Stroke restrictor/ Return spring				P16384
5	Spool (AS)				P15510
6	Valve assembly - 6 spool				P22646
7	Pressure relief valve Telescope spool Levelling spool				P10879 P10879
8	Pressure relief valve				P70335
9	Stroke restrictor/ End cap				P16383
10	Lever cap				P70338
11	Rubber boot				P12225



french
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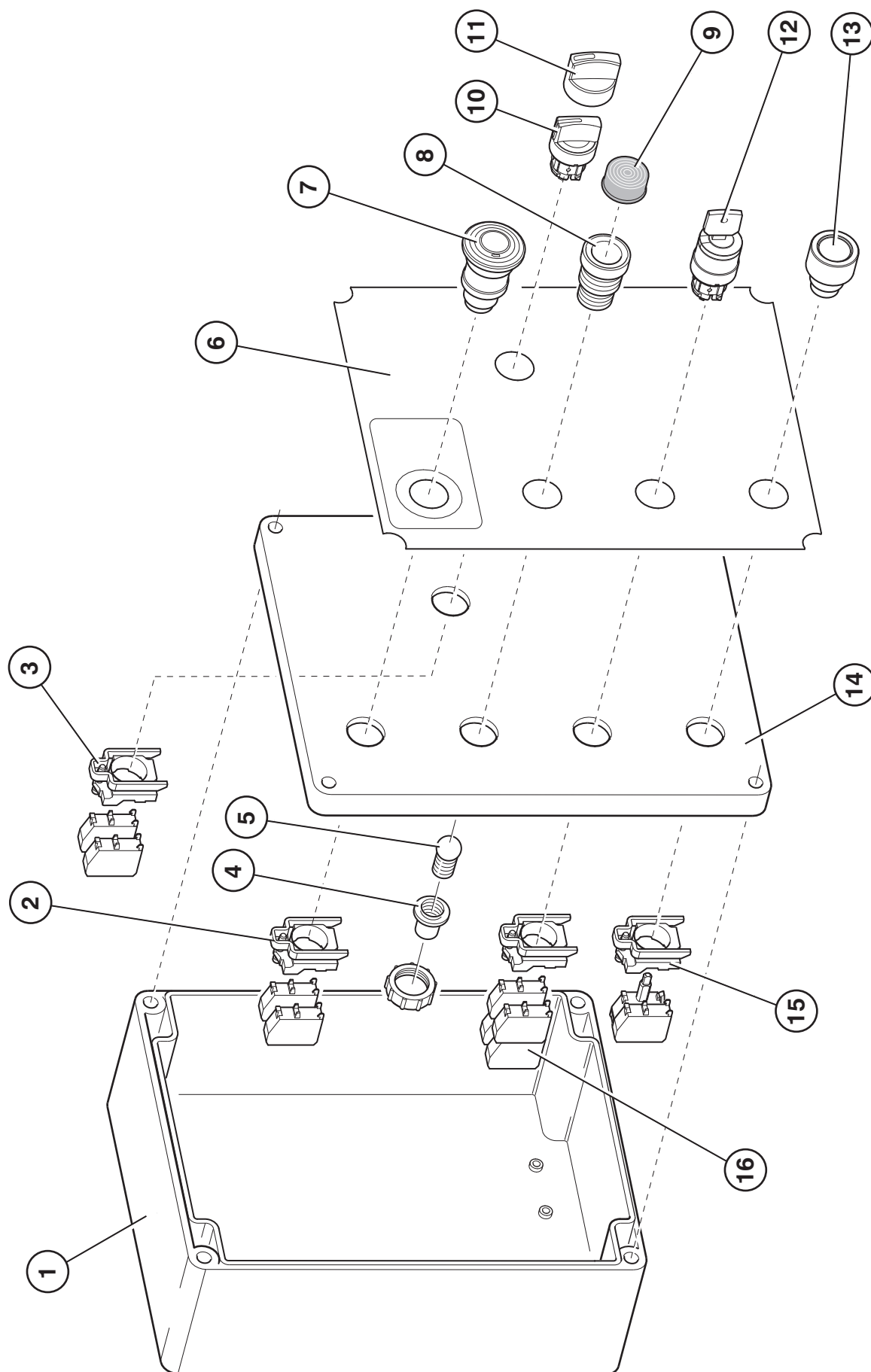
superstructure

2.6 Base control box

Item	Description				Part Number
	Complete assembly				P29013
1	Box (Includes item 14)				P10687
2	Base mount Contact - NC				P24322 P24324
3	Base mount Contact - NO Contact - NO				P24322 P24323 P24323
4	Lamp holder				P11790
5	Lamp				P11791
6	Decal (Label)				P16752
7	E-Stop button USA Only				P24317 P28564
8	Lamp housing				P14276
9	Lens				P11295
10	Selector switch				P24327
11	Rubber boot				P24319
12	Key switch Rubber boot				P24320 P24321
13	Button - Green				P24333
14	Box lid (see item 1)				N/A
15	Base mount Contact - NO LED - Green				P24322 P24323 P24338
16	Base mount Contact - NC Contact - NO				P24322 P24324 P24323

french
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spanish

superstructure



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german
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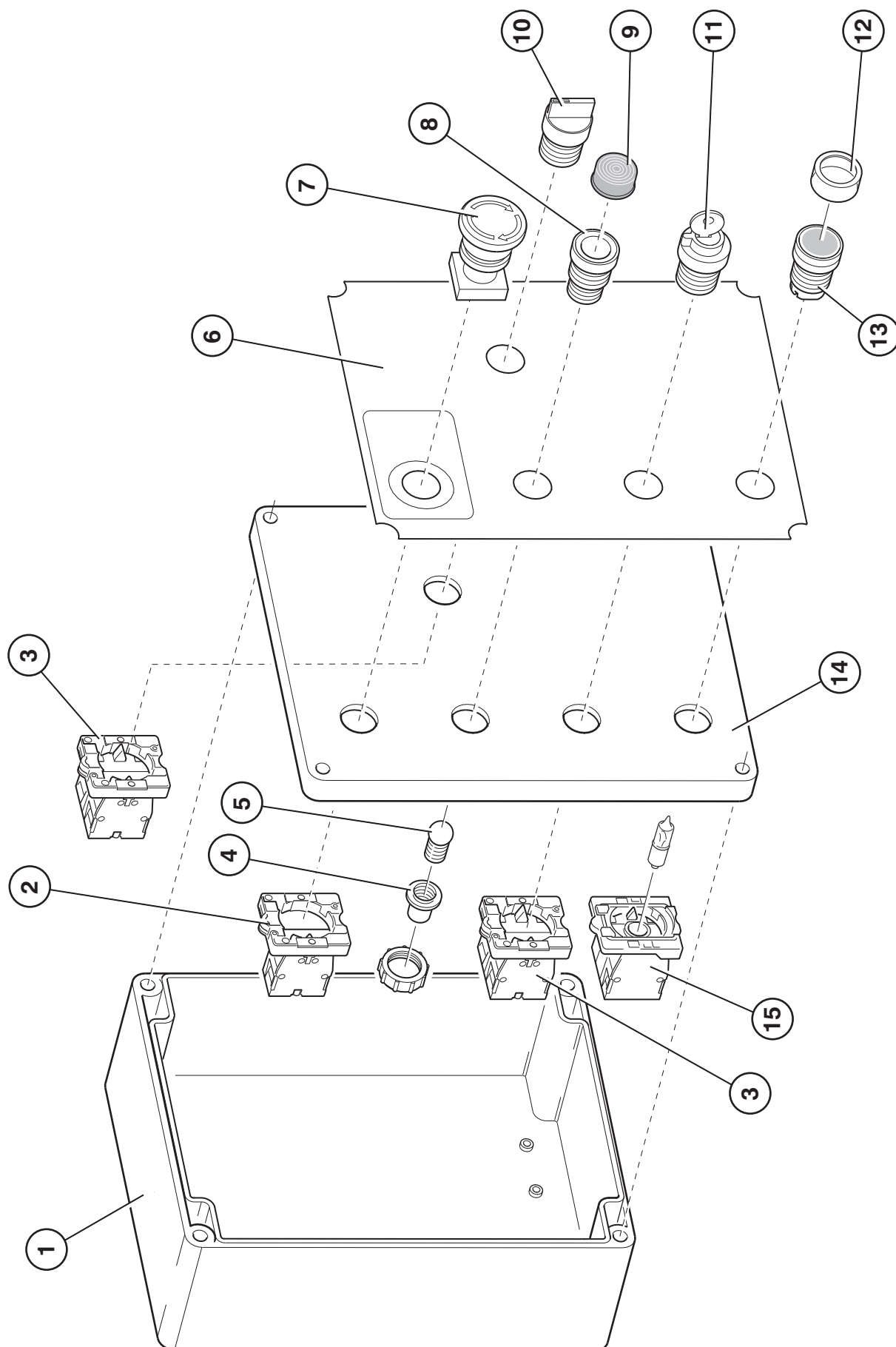
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2.7 Base control box (USA - SD64)

Item	Description	Part Number			
	Complete assembly				P23667
1	Box (Includes item 14)				P10687
2	Contact NC				P11839
3	Contact Double NO				P11840
4	Lamp holder				P11790
5	Lamp				P11791
6	Decal (Label)				P16752
7	E-Stop button USA Only				P21541
8	Lamp housing				P14276
9	Lens				P11295
10	Selector switch				P12692
11	Key switch - 455 key Spare key				P10081 P70187
12	Rubber cover				P22414
13	Button - Green				P22063
14	Box lid (see Item 1)				N/A
15	Contact NO Contact NC Lamp Body, Contact				P22065 P22383 P22066 P22064

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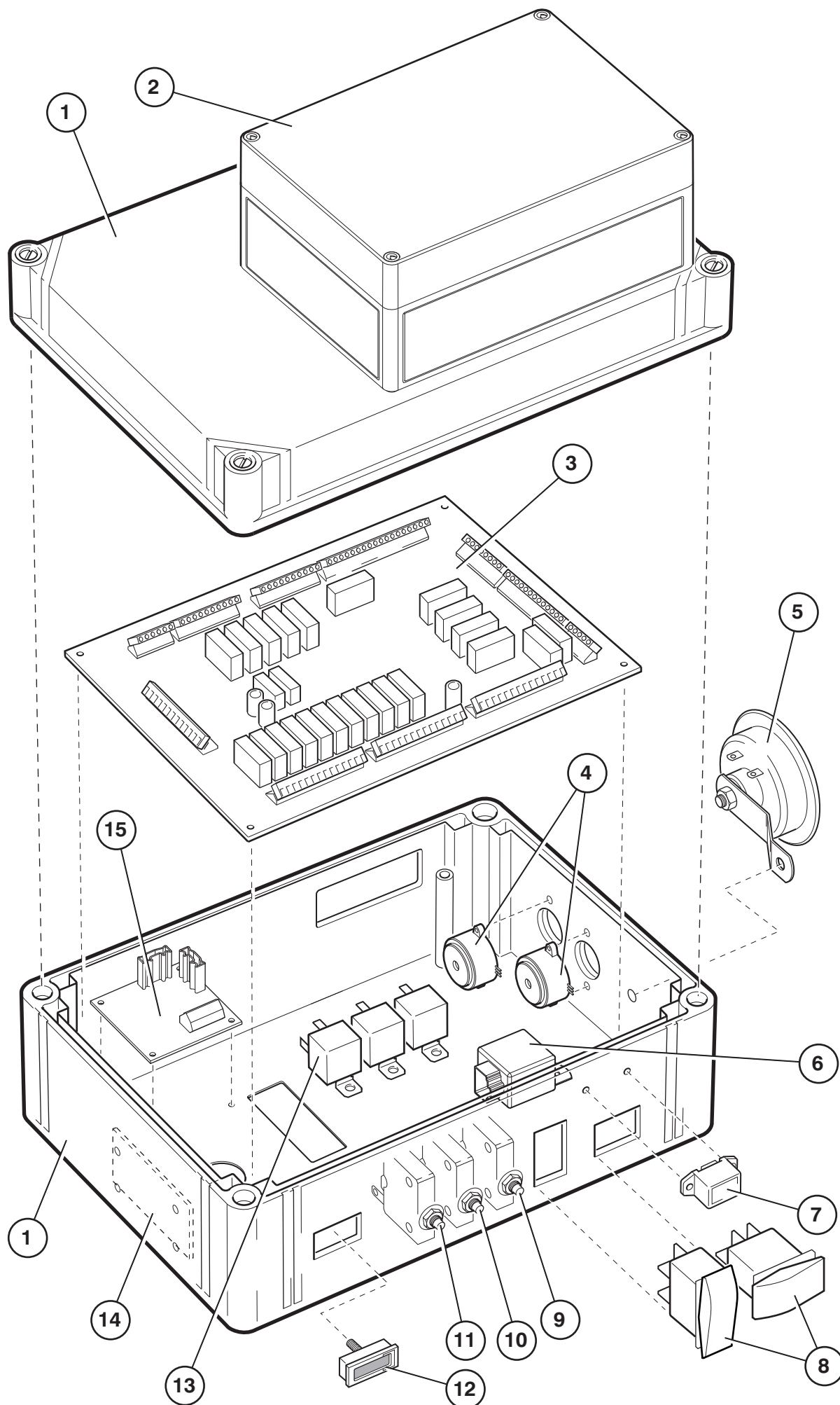


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2.8 PCB control box

Item	Description				Part Number
	Complete assembly (Item 3 not included) USA (SD64) (Items 2 & 3 not included)				P29122 P25718
1	ABS box				P12516
2	Safety box assembly See "Safety box assembly (Europe)" on page 2-20.				P29124
3	PCB - Main control				P17513
4	Sounder				P11112
5	Horn				P14359
6	Timer relay				P10664
7	Buzzer				P10341
8	Switch (Carling)				P11763
9	Circuit breaker - 10A				P11719
10	Circuit breaker - 15A				P11050
11	Circuit breaker - 35A				P13529
12	Hour meter				P11410
13	12v Relay				P10340
14	PCB - Throttle				P14175
15	PCB - PWM Driver				P19310



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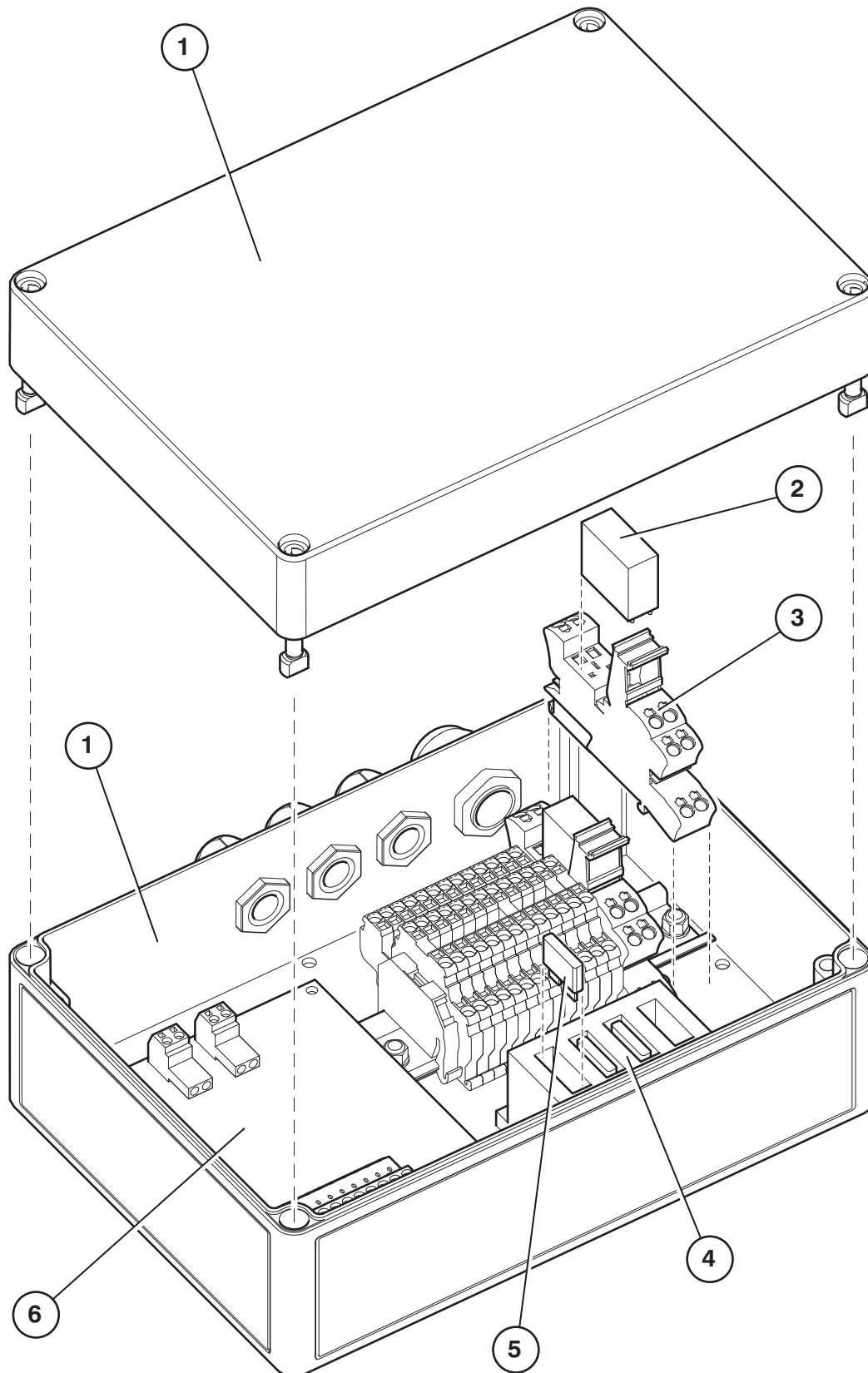
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2.9 Safety box assembly (Europe)

	Item	Description			Part Number
	Complete assembly				P29124
1	Box ONLY				P28603
2	Safety Relay				P18486
3	Base, Relay				P25856
4	Fuse holder				P25854
5	Blade fuse - 3A				P24876
6	PCB				P27246

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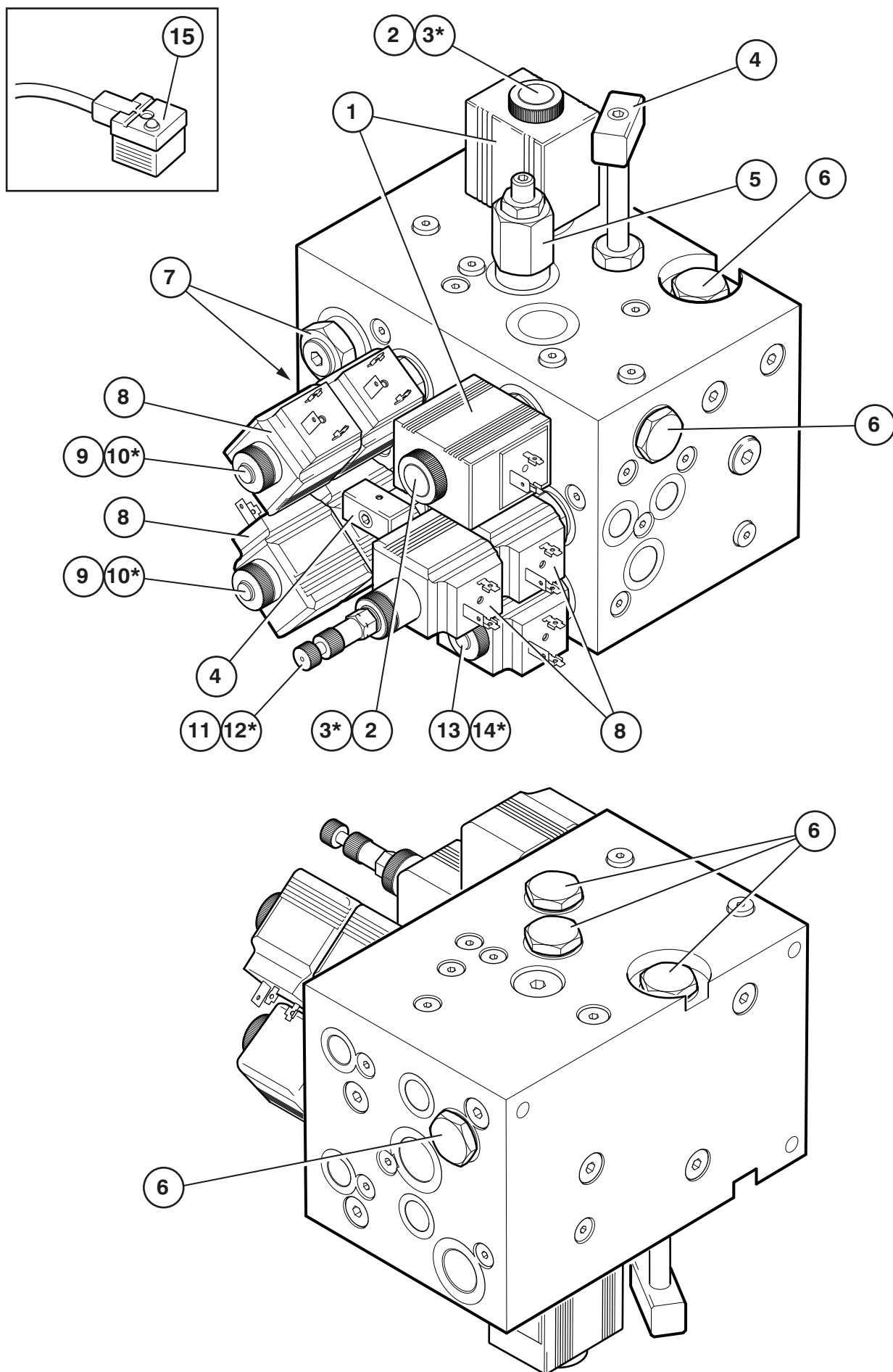
2.10 Main Valve block

Item	Description				Part Number
	Complete assembly				P18450
1	Coil ONLY				P19397
2	Solenoid cartridge (Includes item 1) CT1 & CT18				P19398
3 *	Seal kit for item 2				P15710
4	Release valve CT17 & CT20				P15705
5	Relief cartridge 100 bar - CT5				P19399
6	Check cartridge CT4, CT6, CT8, CT11, CT12 & CT19				P19400
7	Check cartridge CT9 & CT10				P19401
8	Coil - 12v				P15696
9	Solenoid cartridge (Includes item 8) CT13 & CT14				P19402
10 *	Seal kit for item 9				P15733
11	Solenoid cartridge (includes item 8) CT7				P15964
12 *	Seal kit for item 11				P15733
13	Solenoid cartridge (Heavy Duty Coil) CT2				P19403
14 *	Seal kit for item 13				P19404
15	Connector				P13089

* Not illustrated

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2.11 Drive Control Valve block

Item	Description				Part Number
	Complete assembly				P18448
1	Handle - handpump				P17662
2	Solenoid cartridge CT15				P15964
3 *	Seal kit for item 2				P15733
4	Coil - 12v				P15696
5	Solenoid cartridge (includes item 7) CT5				P17833
6 *	Seal kit for item 5				P19404
7	Coil ONLY				P19410
8	Pressure reducing cartridge - 30 Bar CT4				P17664
9	Check cartridge - CT7, CT13 & CT14				P17317
10	Check cartridge - CT1				P19405
11	Check cartridge - CT6				P19406
12	Indicator valve - CT3				P16777
13	Check cartridge - CT18				P19407
14	Check cartridge - CT9 & CT16				P19400
15	Brake release valve CT8				P15705
16	Solenoid cartridge CT10				P17666
17	Handpump - CT11				P17663
18	Relief cartridge 180 Bar - CT17				P19408
19	Relief cartridge 70 Bar - CT12				P19409
20 *	Seal kit for item 19				P13975
21	Connector				P13089

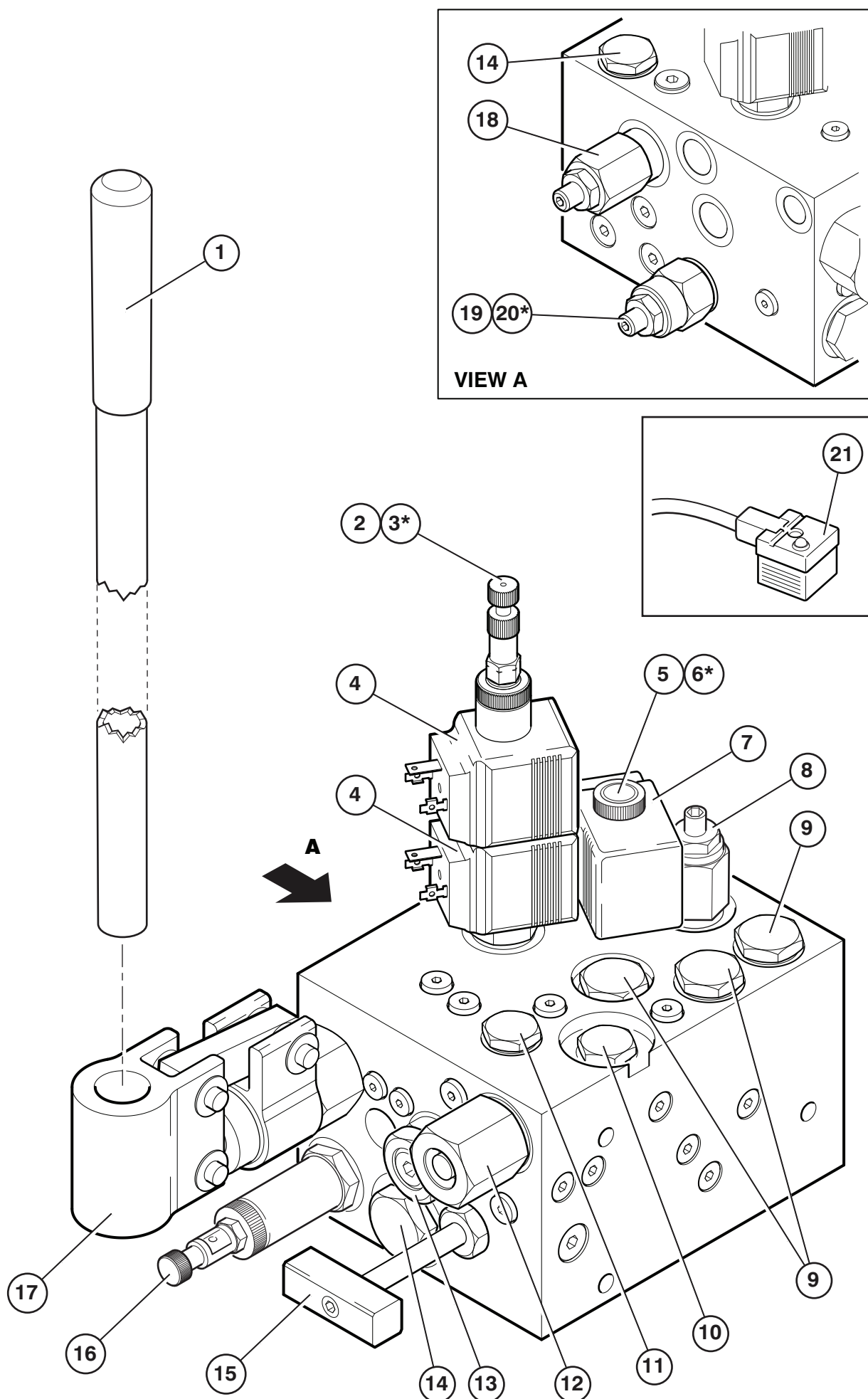
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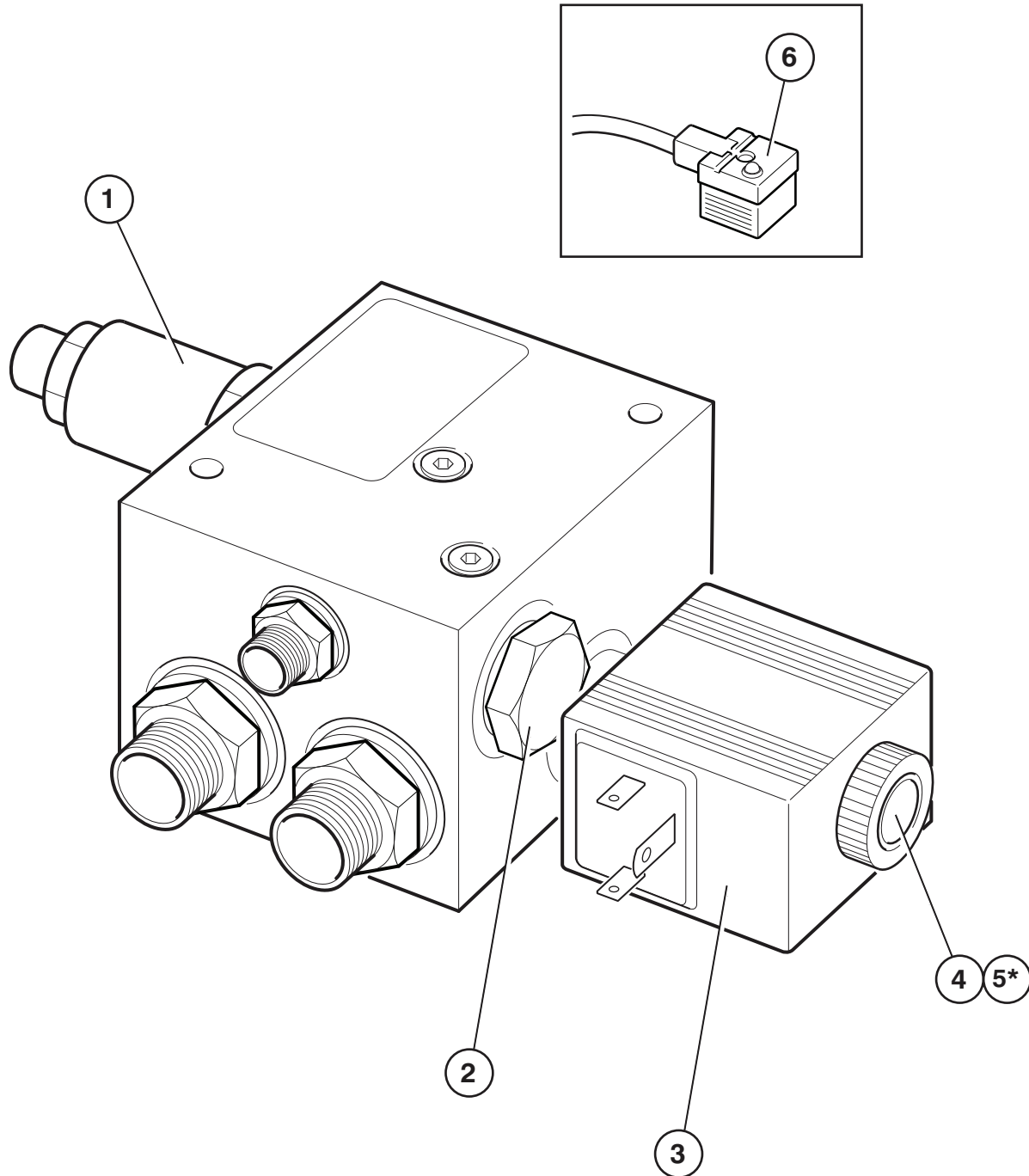
2.12 Booms Valve block

Item	Description	Part Number			
	Complete assembly				P18449
1	Relief cartridge 250 bar - CT1				P18253
2	Check valve CT3				P17946
3	Coil ONLY				P19397
4	Solenoid cartridge (includes item 3) CT2				P19398
5 *	Seal kit for item 4				P15710
6	Connector				P13089

* Not illustrated

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SD210 (SD64)

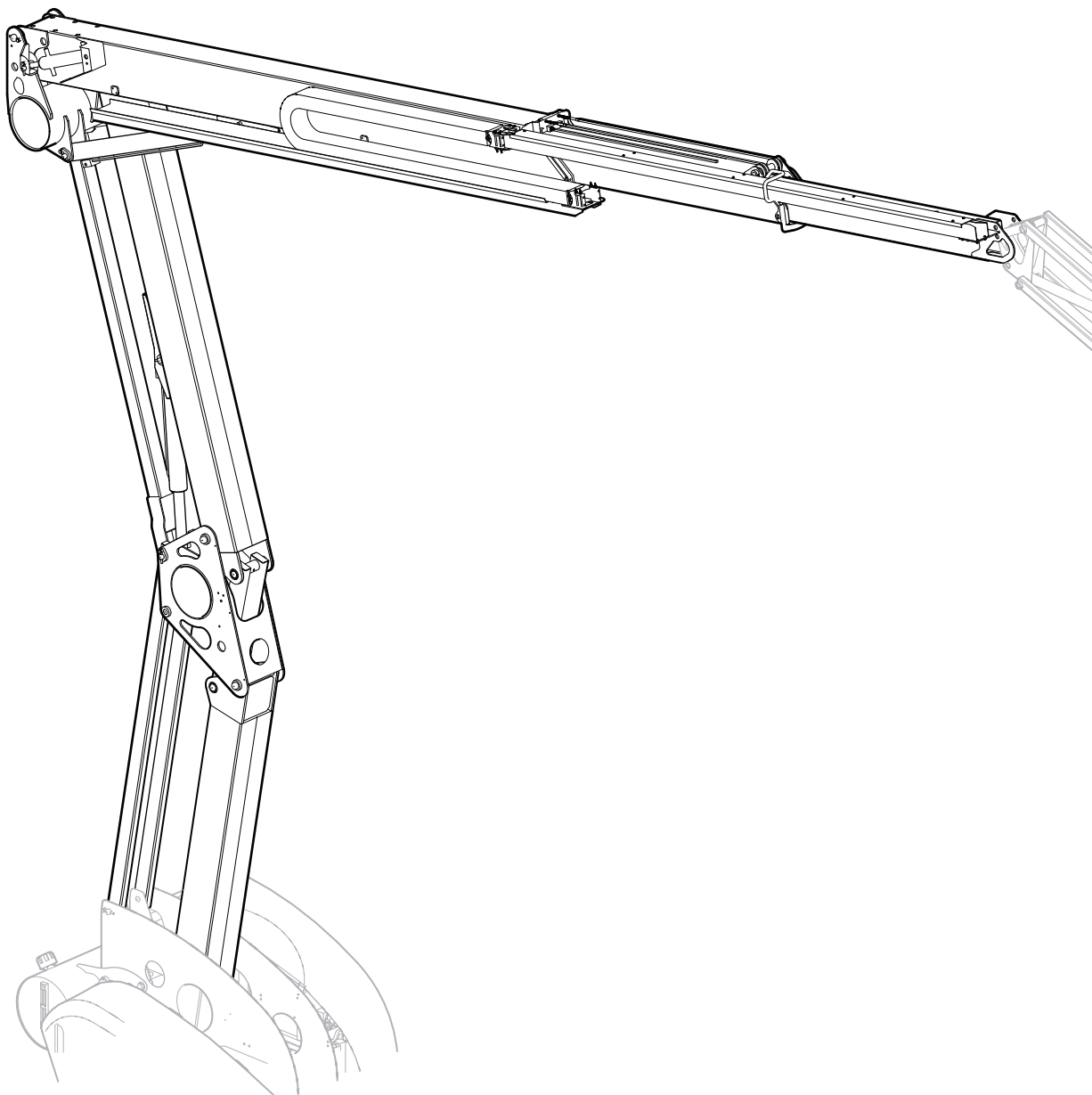


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3

boom assemblies

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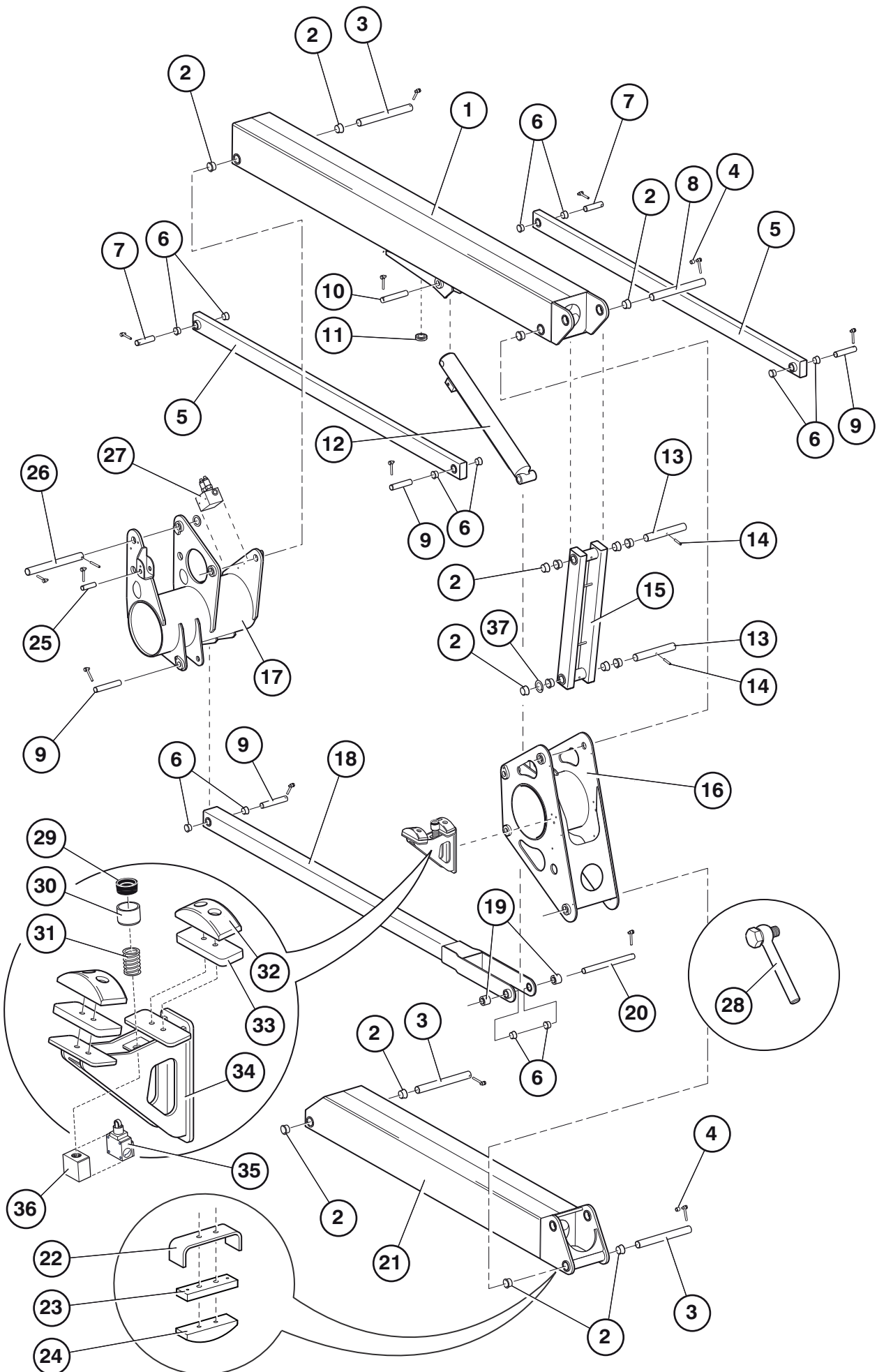
3.1 Links assembly

Item Description Part Number

1	Link 4				P20155
2	Bush - Top hat				P12528
3	Pin - 367mm				P12693
4	Spacer				P11728
5	Link 2				P20153
6	Bush - Flanged				P12651
7	Pin - 120mm				P16597
8	Pin - 374mm				P22151
9	Pin - 140mm				P15958
10	Pin - 175mm				P15953
11	Grommet				P11283
12	Lift cylinder See "Lift & Luffing cylinder" on page 3-14.				P31677
13	Pin - 273mm				P15640
14	Roll pin				n/a
15	Push rod				P20811
16	Knuckle - Links				P20150
17	Knuckle - Tele				P20151
18	Link 3				P20154
19	Spacer				P19649
20	Pin - 353mm				P15638
21	Link 1				P20152
22	Bracket				P17435
23	Rubber spacer				P16883
24	Nylon D-pad				P16877
25	Pin - 91mm				P12954
26	Pin - 383mm				P21938
27	Levelling valve See "Levelling valve" on page 3-18.				P16100

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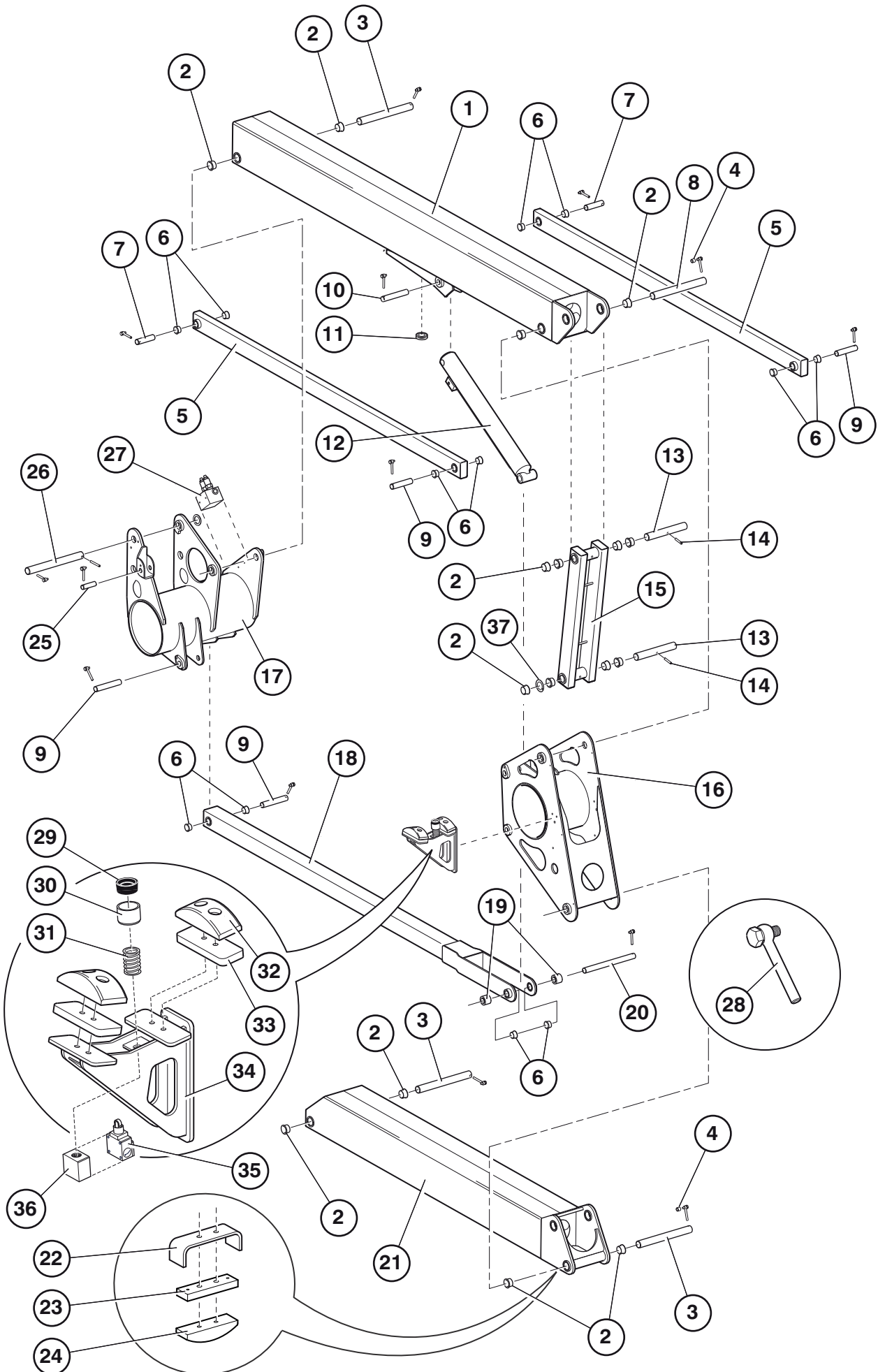
3-3

3.1 continued

Item	Description				Part Number
28	Swing bolt				P15966
29	Rubber cap				P18554
30	Nylon spacer				P11607
31	Spring				P13372
32	Pad - Boom rest				P16877
33	Spacer				P16883
34	Bracket - Boom rest				P16871
35	Microswitch				P18937
36	Block				P13309
37	Thrust Washer (If fitted)				P14994

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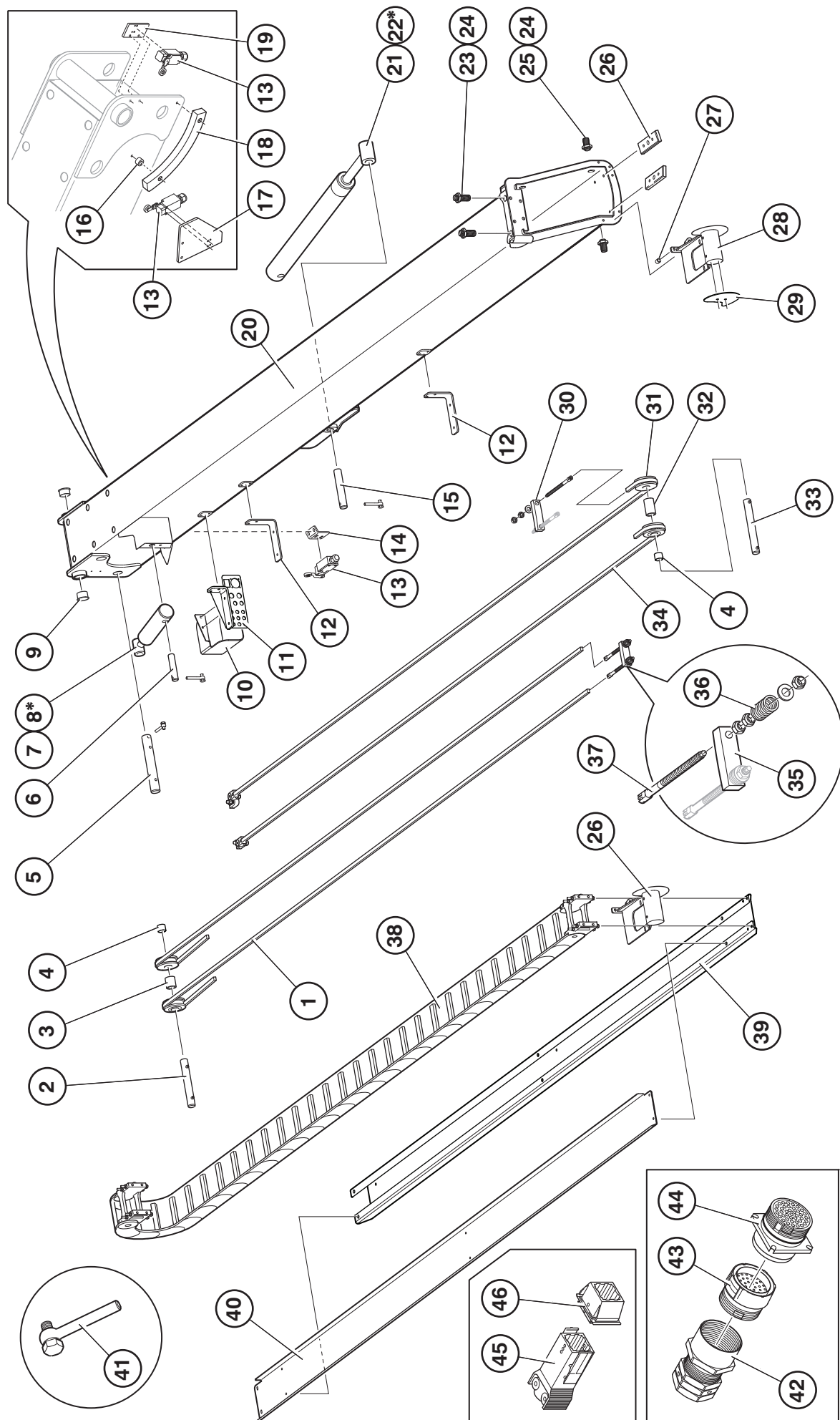
boom assemblies

3.2 Telescope assembly (Part 1)

Item	Description	Part Number
------	-------------	-------------

1	Chain kit - Return (Includes items 31 and 37)	P16182
2	Pin - 208mm	P15288
3	Spacer (Rear Pulley)	P15294
4	Bush DC3030	P10880
5	Pin - 264mm (Tele-cylinder)	P15951
6	Pin - 119mm	P12628
7	Levelling cylinder (4 port) <i>See "Levelling cylinders" on page 3-16.</i>	P12155
8 *	Seal kit for item 7	P13234
9	Bush 4026DU	P12528
10	Hose cover	P22572
11	Bracket - Bulkhead	P25701
12	Support bracket	P25781
13	Limit switch	P19118
14	Bracket	P20176
15	Pin - 175 mm	P15953
16	Spacer (10mm)	P19378
17	Bracket	P19251
18	Luffing cam	P17444
19	Bracket	P19250
20	Section 3	P20158
21	Luffing cylinder <i>See "Lift & Luffing cylinder" on page 3-14.</i>	P31679
22 *	Seal kit for item 21	P27072
23	Wear screw (Black) M24 x 70	P16243
24	Half nut	P16312
25	Wear screw (Red) M24 x 52	P17064

* Not illustrated



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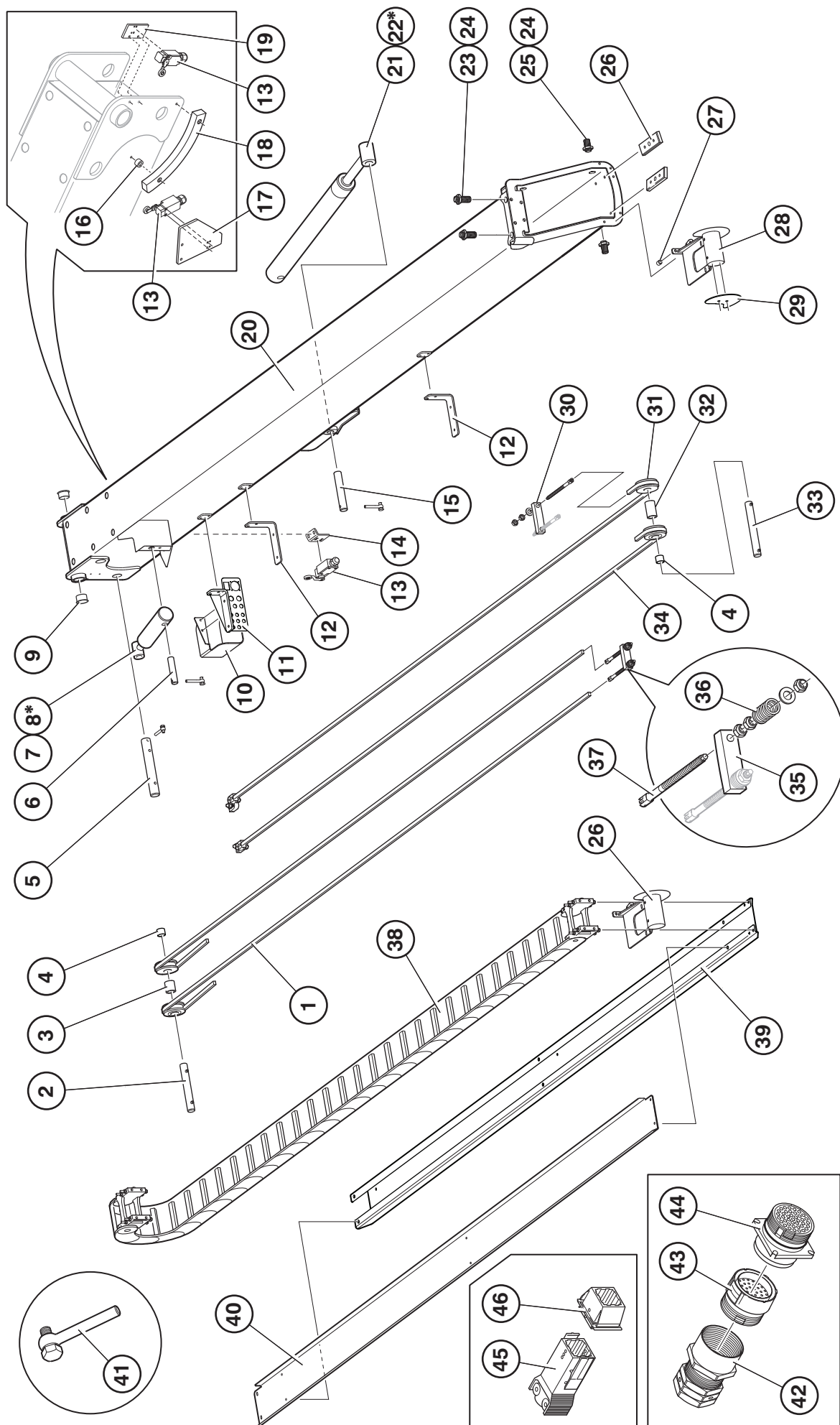
boom assemblies

3.2 continued

Item	Description				Part Number
26	Wear pad				P16176
27	Spacer				P11728
28	Bracket - Trunking				P17622
29	Side plate				P19430
30	Equaliser - Outward chain				P15284
31	Pulley				P15337
32	Spacer (Front pulley)				P15293
33	Pin - 238mm				P15287
34	Chain kit - Outward (Includes items 31 and 37)				P16181
35	Tensioner - Return chain				P15285
36	Spring				P16378
37	Threaded anchor assembly (Includes split pins, anchor pin and nuts)				P16179
38	Energy chain See "Energy chain" on page 3-20.				P15802
39	Trunking - Lower				P25779
40	Lid - Lower trunking				P19007
41	Swing bolt				P15966
42	Clamp				P18014
43	Plug - 40 way				P18011
44	Socket - 40 way				P18016
45	Chassis - 4 way				P19152
46	Plug - 4 way				P19153

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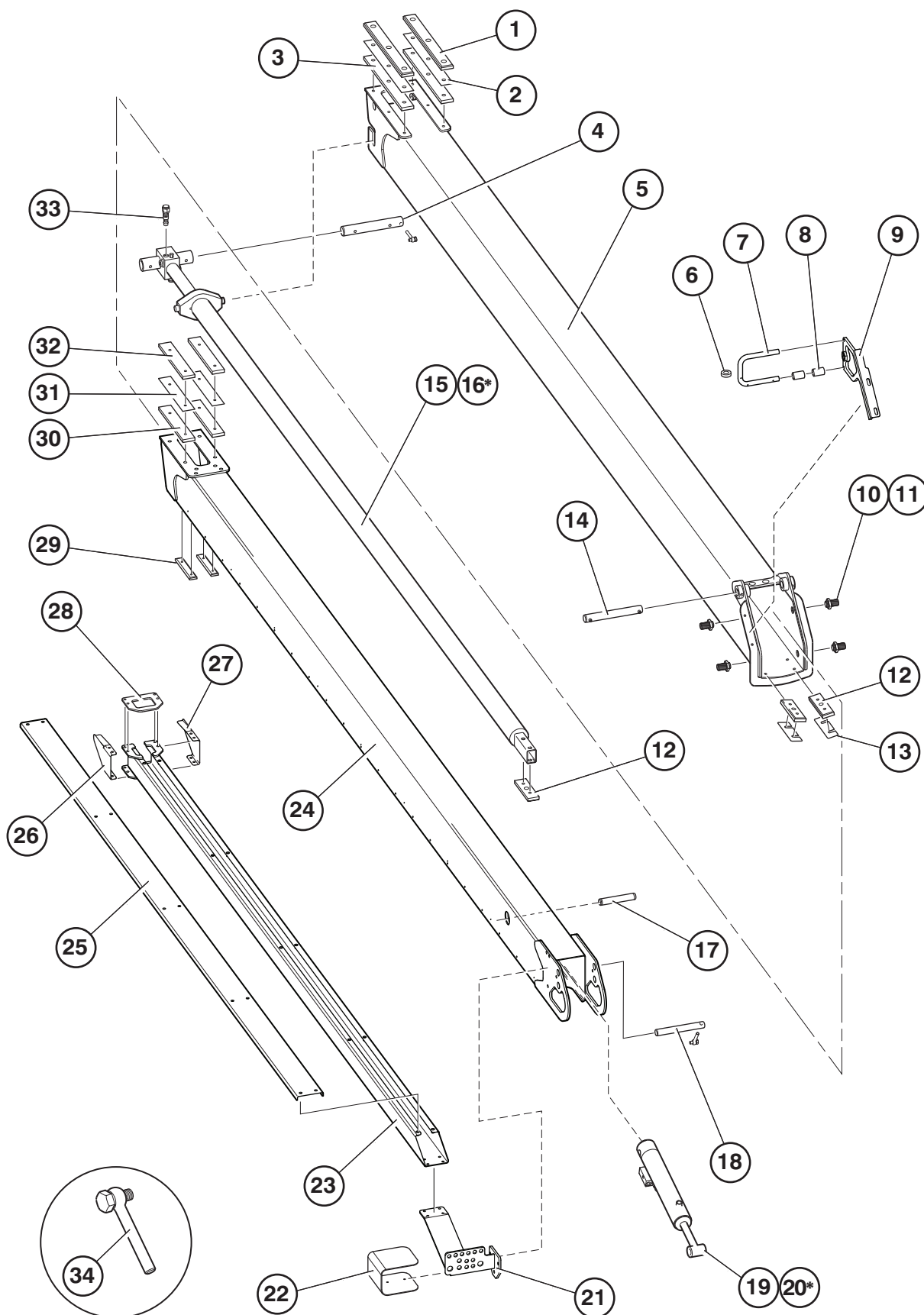
boom assemblies

3.3 Telescope assembly (Part 2)

Item Description Part Number

1	Wear pad				P16168
2	Shim				P16156
3	Spacer				P15643
4	Pin - 264mm				P15951
5	Inner Section 2				P20157
6	Side roller				P16303
7	Loop				P19326
8	Spacer				P12343
9	Support bracket				P18982
10	Wear screw (Black) M24 x 70				P16243
11	Half nut				P16312
12	Wear pad				P16176
13	Shim				P14174
14	Pin - 238mm				P15287
15	Tele cylinder				P15286
16 *	Seal kit for item 15				P16956
17	Pin - 136mm				P15685
18	Pin - 195mm				P18884
19	Levelling cylinder (2 port) See "Levelling cylinders" on page 3-16.				P15959
20 *	Seal kit for item 19				P13234
21	Bracket - Bulkhead				P22032
22	Hose cover				P22574
23	Trunking				P19006
24	Inner Section 1				P29611
25	Lid - Trunking				P19008
26	Support bracket LH (Tracking)				P18664
27	Support bracket RH (Tracking)				P18665
28	Capping plate				P16049

* Not illustrated



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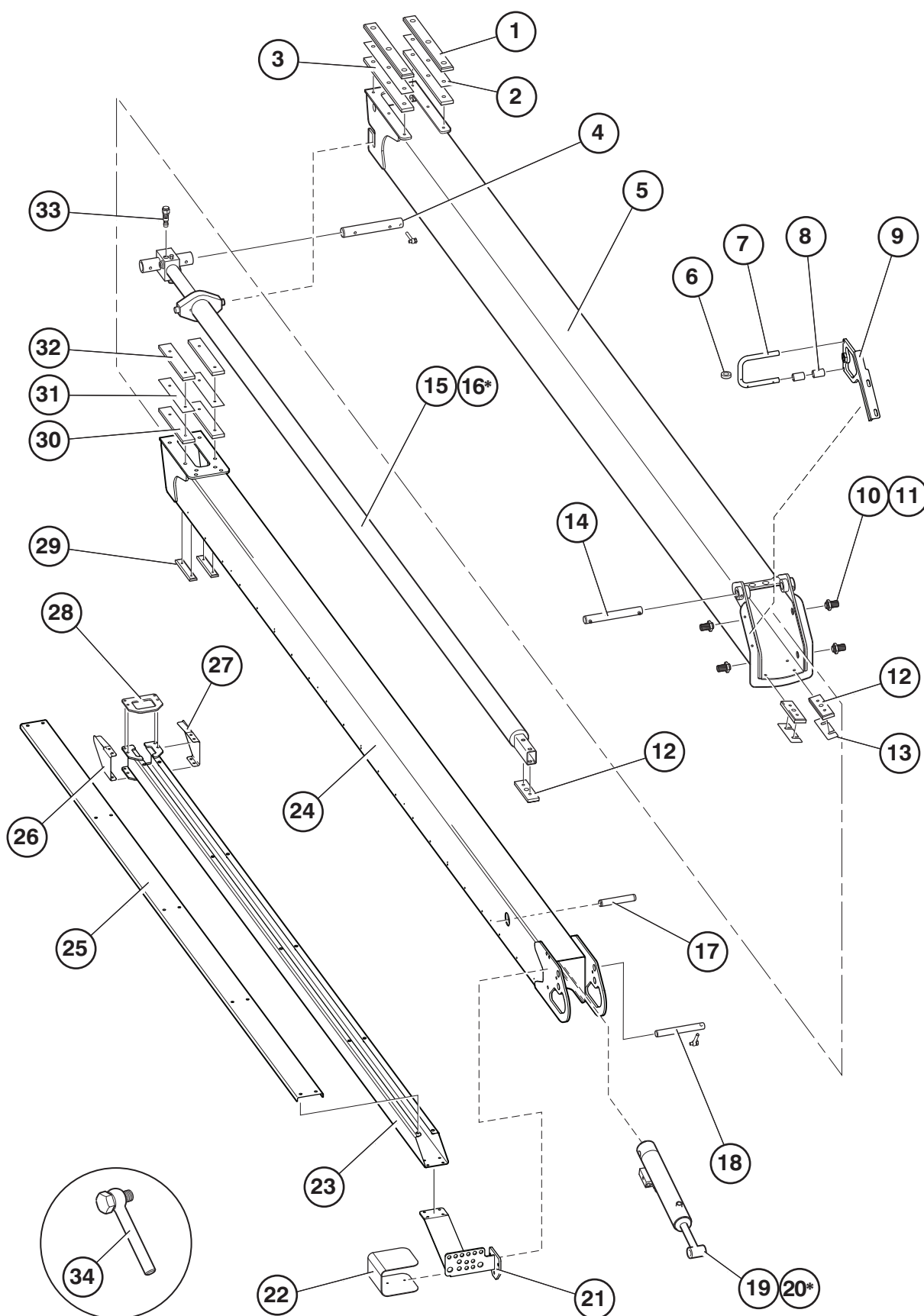
boom assemblies

3.3 continued

Item	Description				Part Number
29	Wear pad				P15899
30	Spacer				P15644
31	Shim				P16157
32	Wear pad				P16169
33	Load valve				P15020
34	Swing bolt				P15966

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3-13

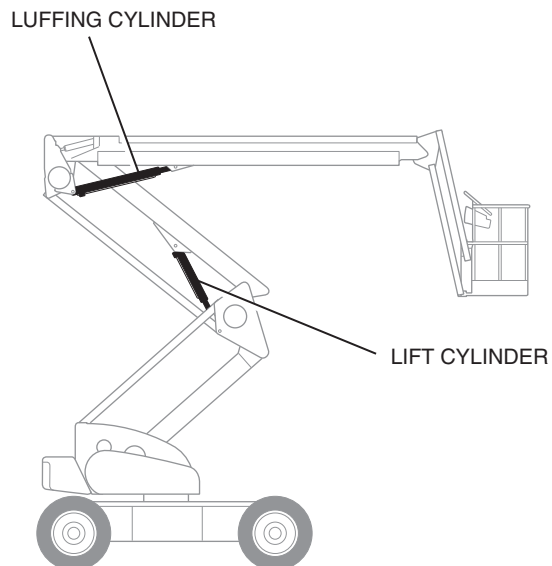
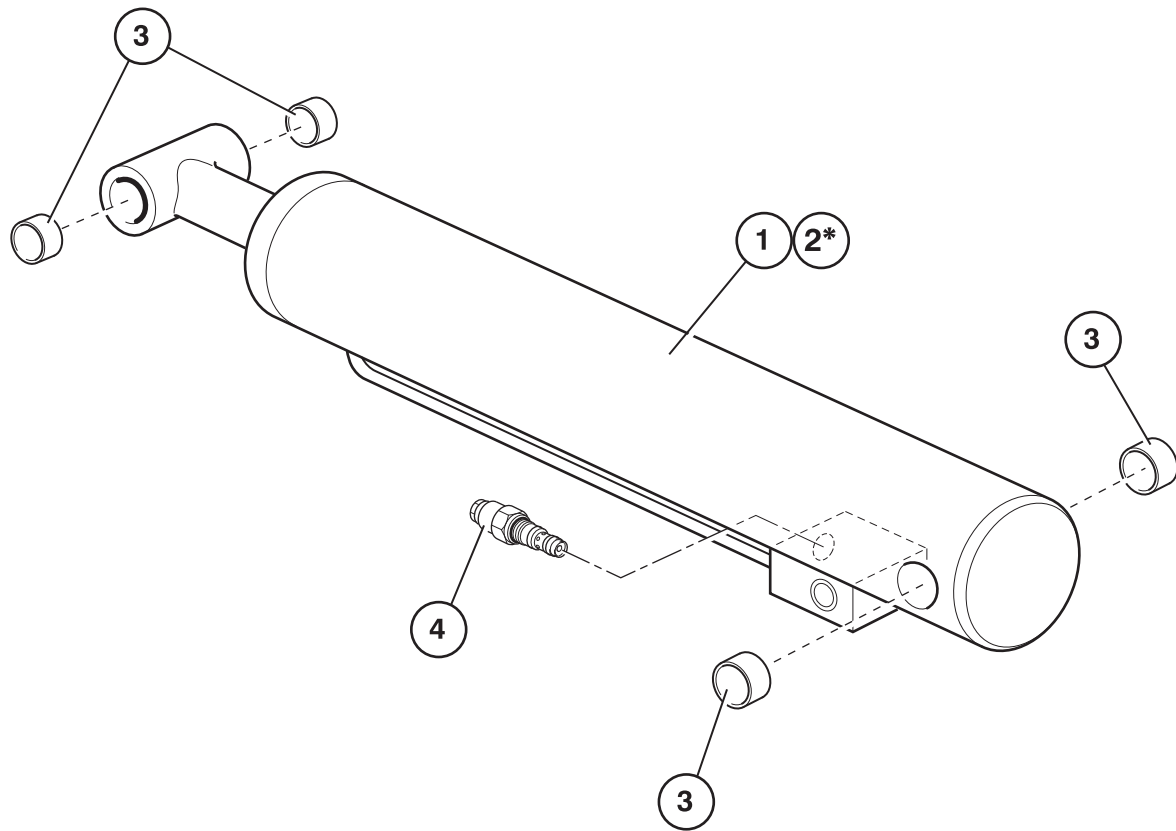
3.4 Lift & Luffing cylinder

Item	Description				Part Number
1	Cylinder Lift Luffing				P31677 P31679
2 *	Seal kit for item 1				P27072
3	Bush DU3030				P10880
4	Load valve Lift Luffing				P11956 P15706

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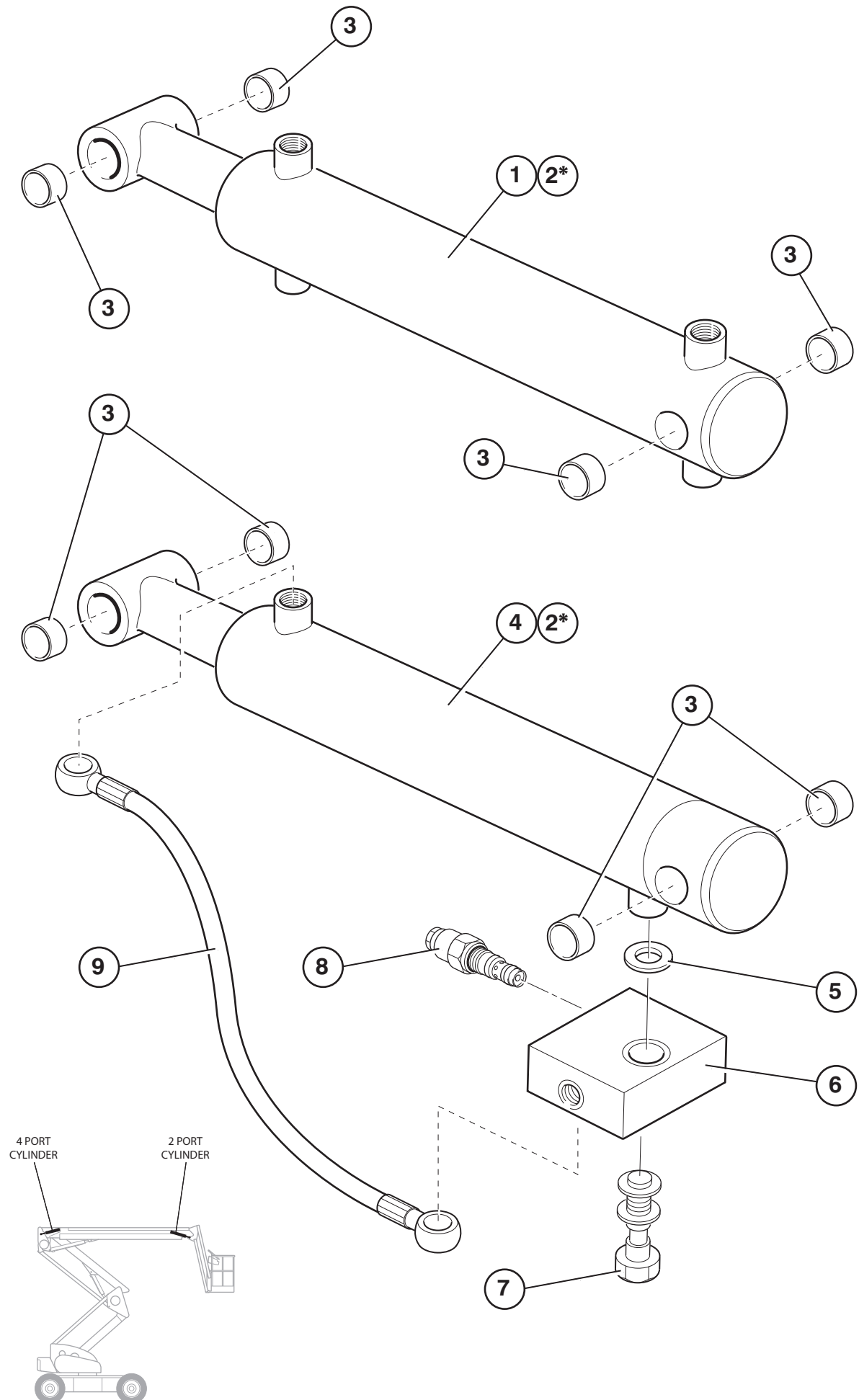
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3.5 Levelling cylinders

Item	Description				Part Number
1	Cylinder (4 port)				P12155
2 *	Seal kit for items 1 and 4				P13234
3	Bush				P10032
4	Cylinder (2 port)				P15959
5	Sealed washer				P70126
6	Check valve assy. (Includes item 8)				P21052
7	Banjo bolt				P10625
8	Load valve				P31916
9	Hose kit (Includes fittings)				P24245

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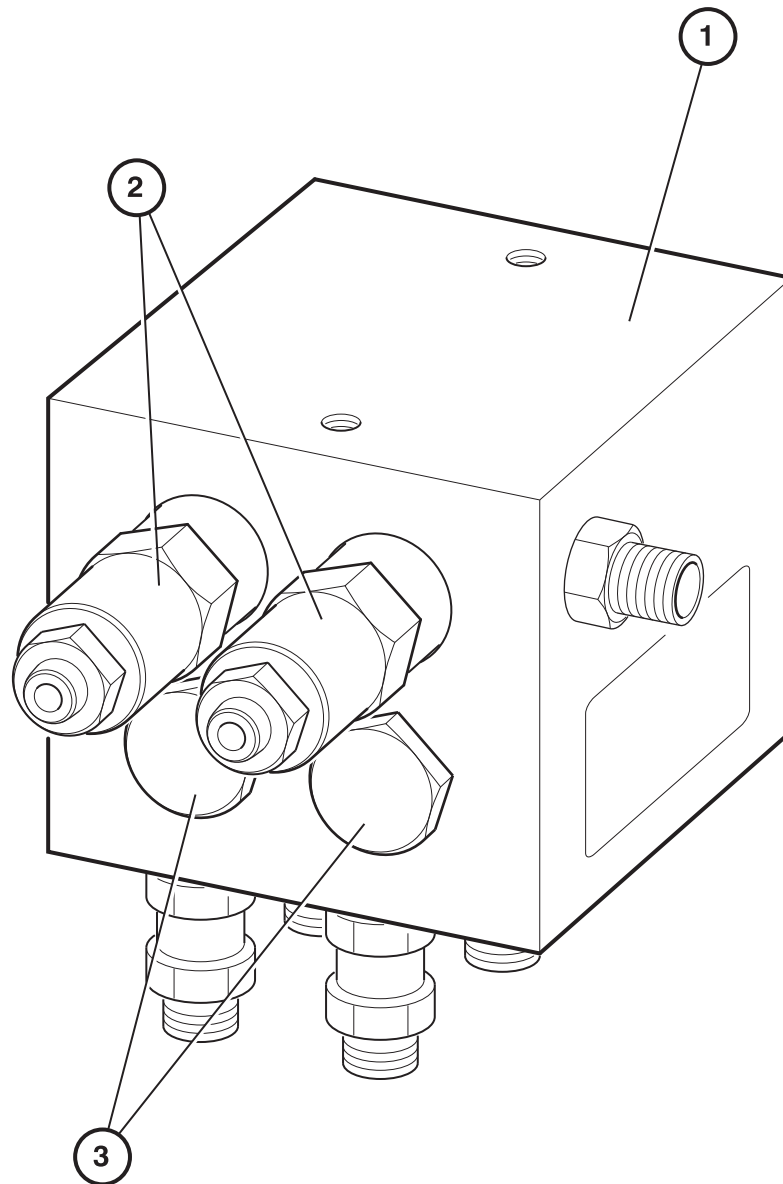
3-17

3.6 Levelling valve

Item	Description				Part Number
1	Levelling valve assembly				P16100
2	Relief Valve (250 BAR)				P18253
3	Check valve				P12810

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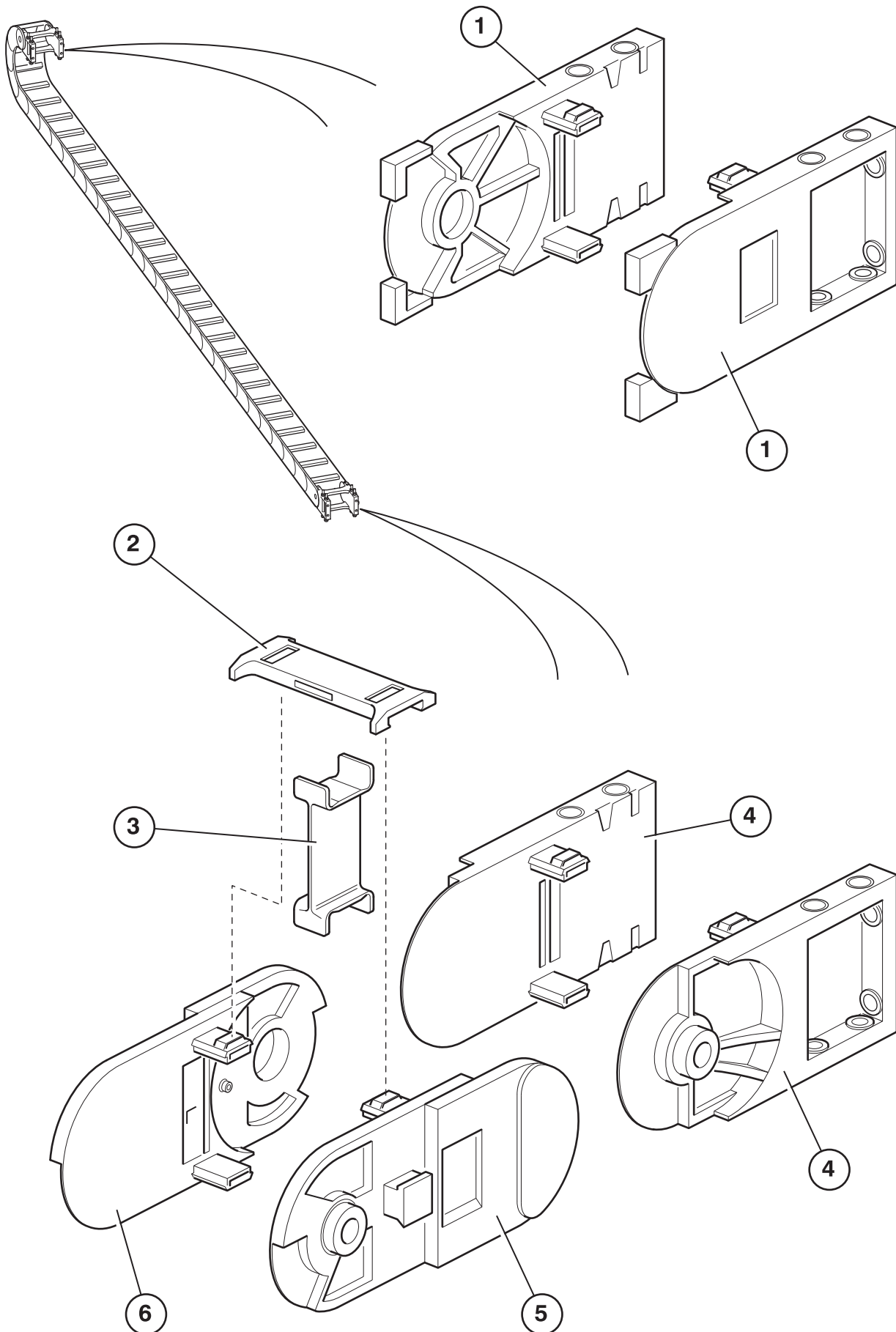
boom assemblies

3.7 Energy chain

Item	Description				Part Number
1	Bracket - Top				P18041
2	Bridge				P17673
3	Hose divider				P17405
4	Bracket - Bottom				P18042
5	Link - Outside (Ref. 40.02.135)				P18043
6	Link - Inside (Ref. 40.01.135)				P18046

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SD210 (SD64)

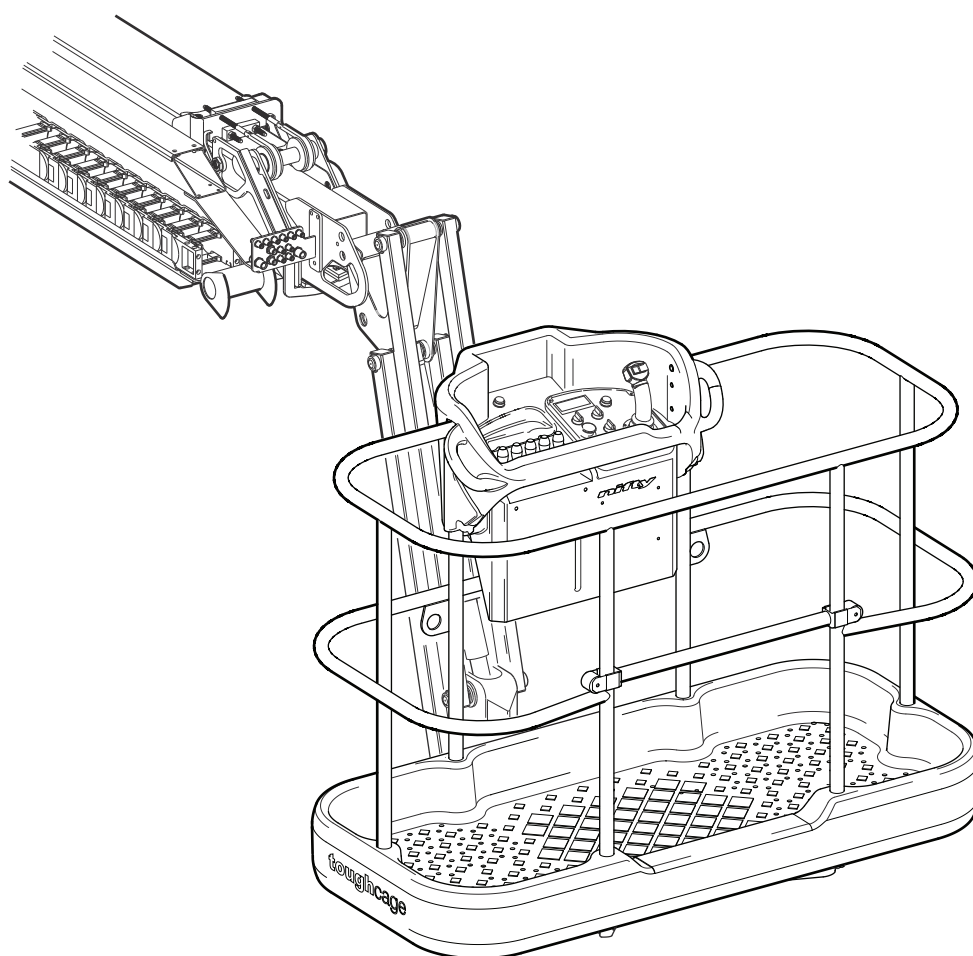


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4

cage and flyboom

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4.1 toughcage assembly

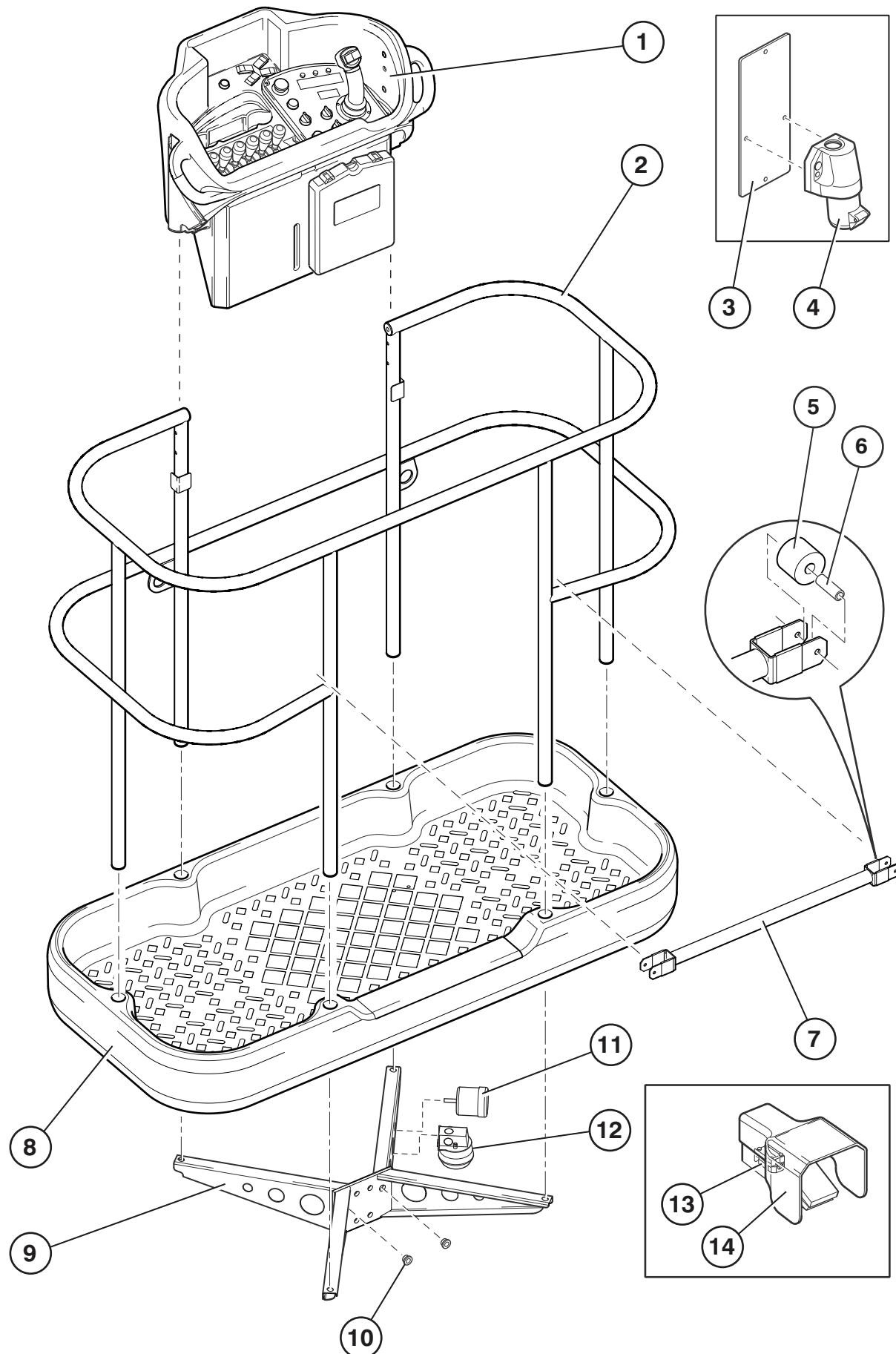
Item	Description				Part Number
1	Console assembly See "cage console assembly" on page 4-6				N/A
2	Cage frame # * Steel cage (OPTION)				P20750 P29543
3	Mounting bracket (OPTION)				P25281
4	Socket 110v/16A (OPTION)				P25082
5	Nylon roller				P21784
6	Spacer				P21791
7	Cage gate				P21783
8	Cage floor				P24793
9	Cage support				P22011
10	Rubber bush				P21960
11	Annunciator				P27951
12	Beacon -Blue				P27950
13	Contact switch				P26751
14	Footswitch assy (OPTIONAL) Cover ONLY				P26601 P26752

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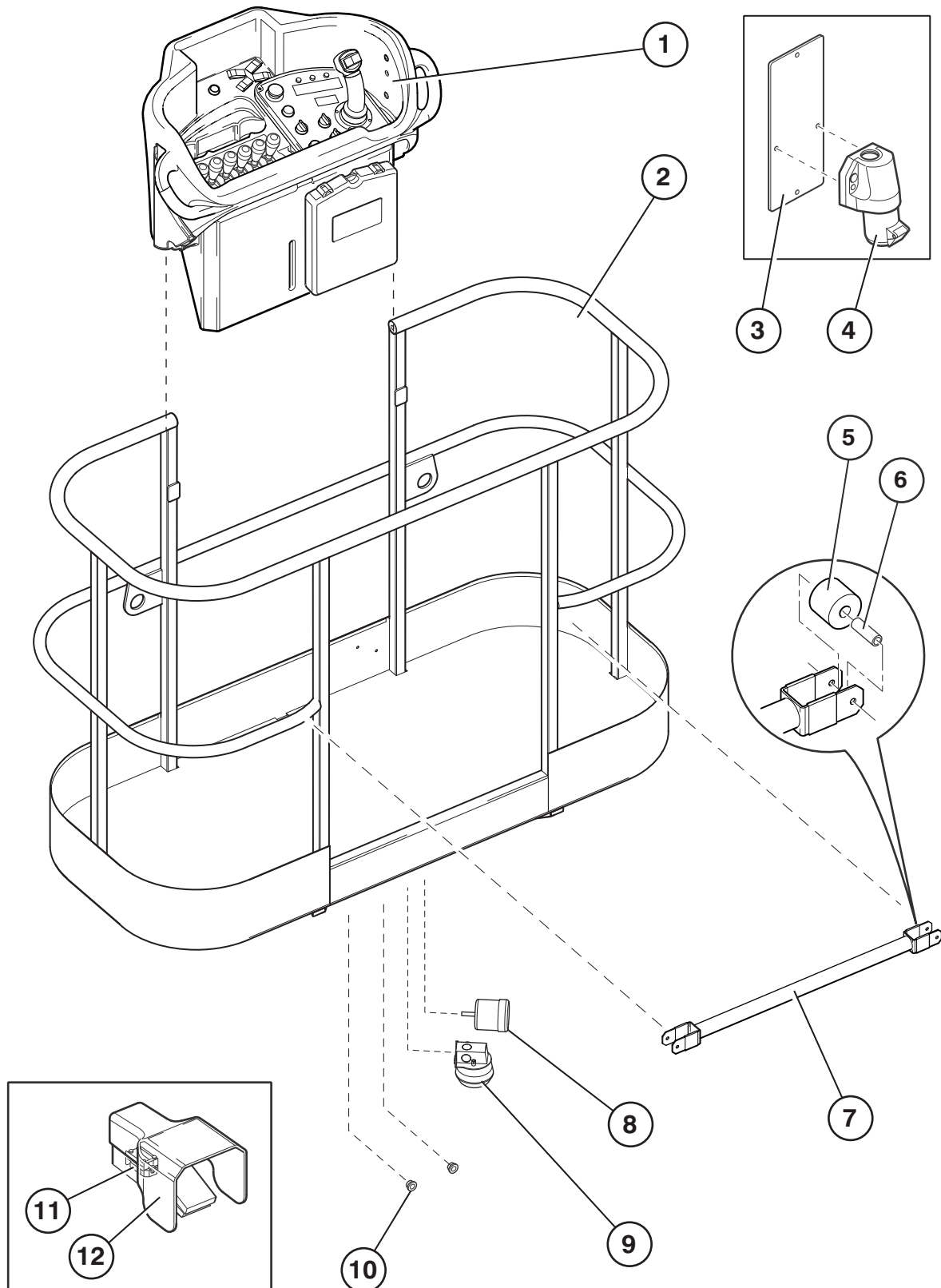
cage and flyboom

4.2 Cage assembly

Item	Description				Part Number
1	Console assembly See "cage console assembly" on page 4-6				N/A
2	Steel cage (OPTION)				P29543
3	Mounting bracket (OPTION)				P25281
4	Socket 110v/16A (OPTION)				P25082
5	Nylon roller				P21784
6	Spacer				P21791
7	Cage gate				P13652
8	Annunciator				P27951
9	Beacon -Blue				P27950
10	Rubber bush				P21960
11	Contact switch				P26751
12	Footswitch assy (OPTIONAL) Cover ONLY				P26601 P26752

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4.3 cage console assembly

Item Description

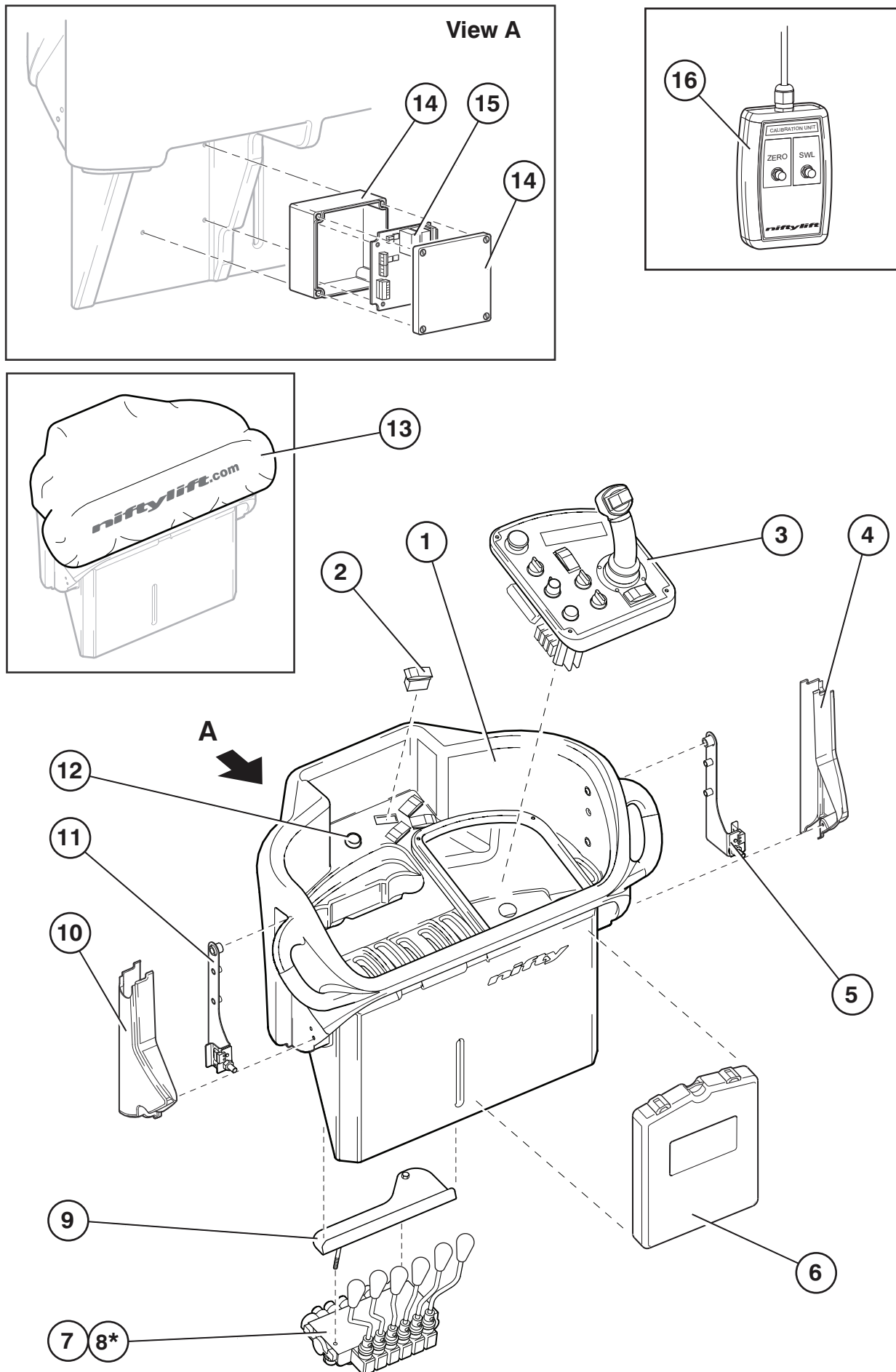
Part Number

1	Console				P22060
2	Switch - Carling				P16973
3	Control panel assembly USA (SD64) <i>See "Control panel assembly" on page 4-16 or "Control panel assembly (USA - SD64)" on page 4-18.</i>				P29012 P23609
4	Cover RH				P21416
5	SiOPS Bracket RH assembly <i>See "SiOPSTM assembly" on page 4-8</i>				P26150
6	Instruction manual box				P11618
7	Control valve				P22645
8 *	Seal kit for item 7				P70337
9	Bracket				P18972
10	Cover LH				P21417
11	SiOPS Bracket LH assembly <i>See "SiOPSTM assembly" on page 4-8</i>				P26149
12	<u>USA (SD64)</u> Button - Blue Waterproof cover Contact NO <u>Europe (SD210)</u> Button - Blue Waterproof cover Contact NO				P11117 P22414 P11838 P24331 P24332 P24323
13	Protective cover (Option)				P24020
14	PCB assembly (Includes item 15) Box ONLY				P27723 P25739
15	Cage Weigh and SiOPS™ PCB				P30489
16	Calibration unit (Cage Weigh)				T00237

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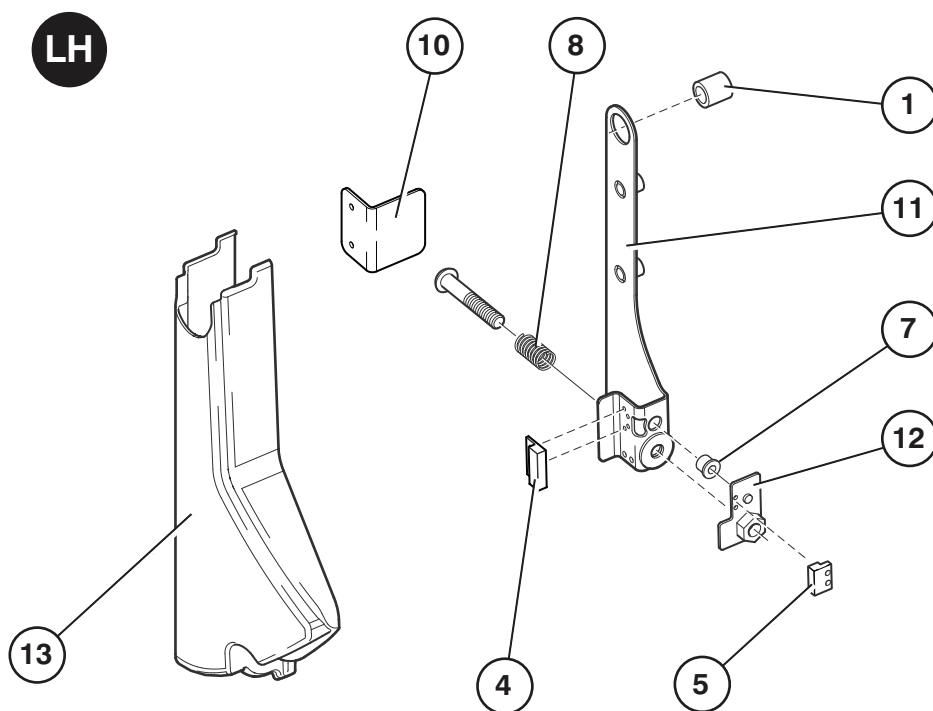
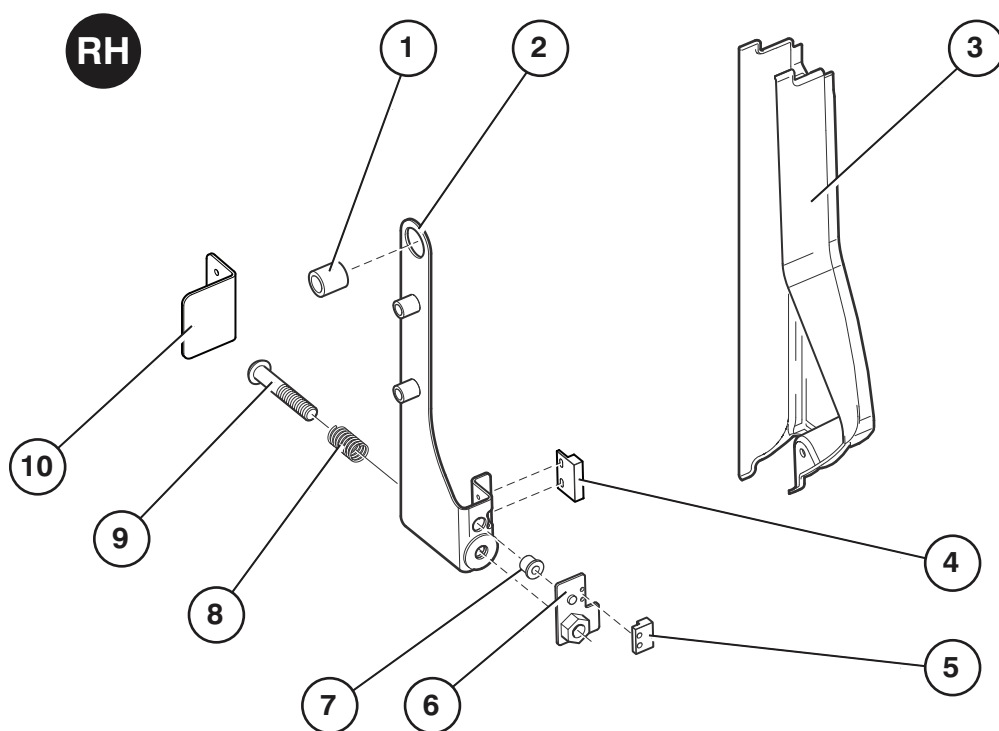
4-7

4.4 SiOPS™ assembly

Item	Description				Part Number
1	Boss				P21526
2	Console bracket RH				P21641
3	Cover RH				P21416
4	Proximity switch				P22061
5	Magnet				P22062
6	Magnet bracket RH				P21643
7	Plastic boss				P21645
8	Spring				P22298
9	Button socket screw (M10 x 60)				N/A
10	Striker plate				P22067
11	Console bracket LH				P21640
12	Magnet bracket LH				P21642
13	Cover LH				P21417

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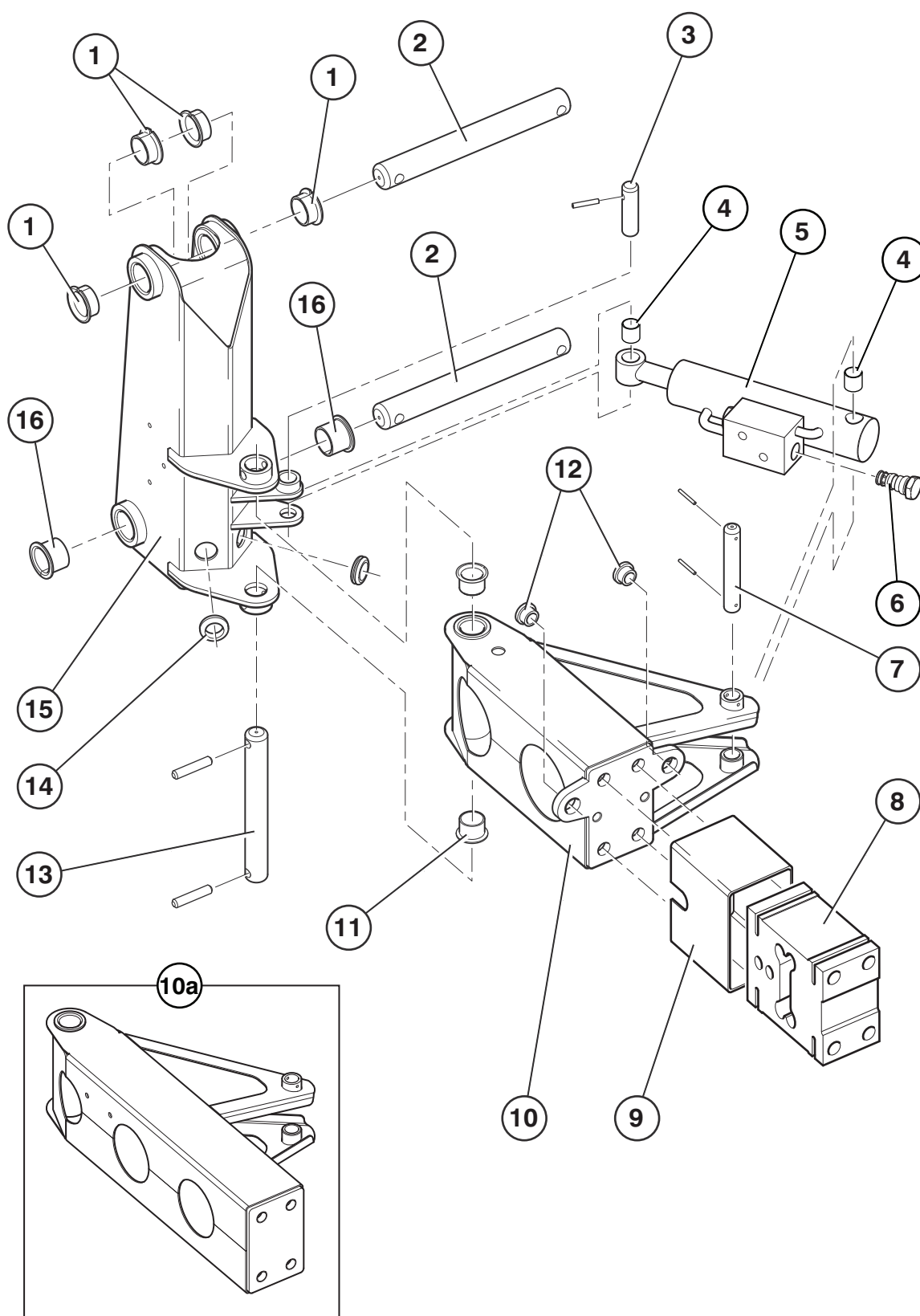
cage and flyboom

4.5 cage rotate assembly

Item	Description	Part Number			
1	Bush				P16337
2	Pin - 251 mm				P18885
3	Pin - 70mm				P24482
4	Bush DU1820				P11366
5	Cylinder Seal kit *				P22102 P31311
6	Check valve				P17317
7	Pin - 114mm				P21740
8	Load cell 1.1m cable 2.4m cable				P18179 P29179
9	Cover				P25200
10	Extender bracket <i>a) Non cage weigh</i>				P21880 P23999
11	Bush				P12250
12	Rubber bush				P21960
13	Pin - 199mm				P21903
14	Grommet				P16983
15	Cage bracket				P21878
16	Bush				P12651

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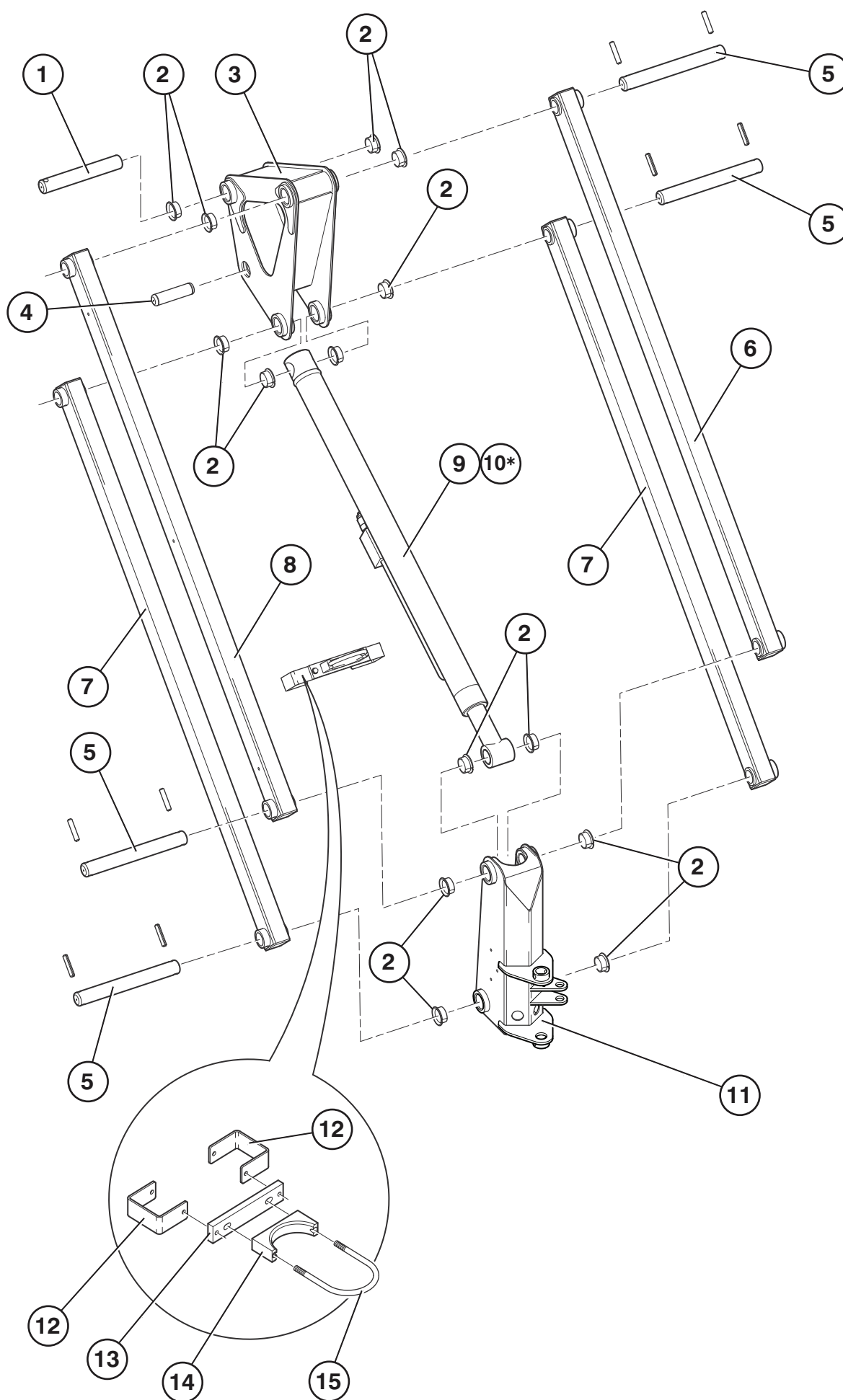
4.6 flyboom assembly

Item	Description				Part Number
1	Pin - 195mm				P18884
2	Bush				P16337
3	Knuckle				P18877
4	Pin - 96mm				P12691
5	Pin - 280mm				P15649
6	Flyboom (with cam)				P28977
7	Flyboom				P27812
8	Flyboom (tapped)				P28976
9	Cylinder See "Flyboom cylinder" on page 4-14				P19413
10 *	Seal kit for item 9				P13267
11	Cage mounting bracket				P21878
12	Hose guide				P20356
13	Nylon clamp plate				P20357
14	Hose clamp				P17991
15	U-bolt (M8 116mm)				N/A

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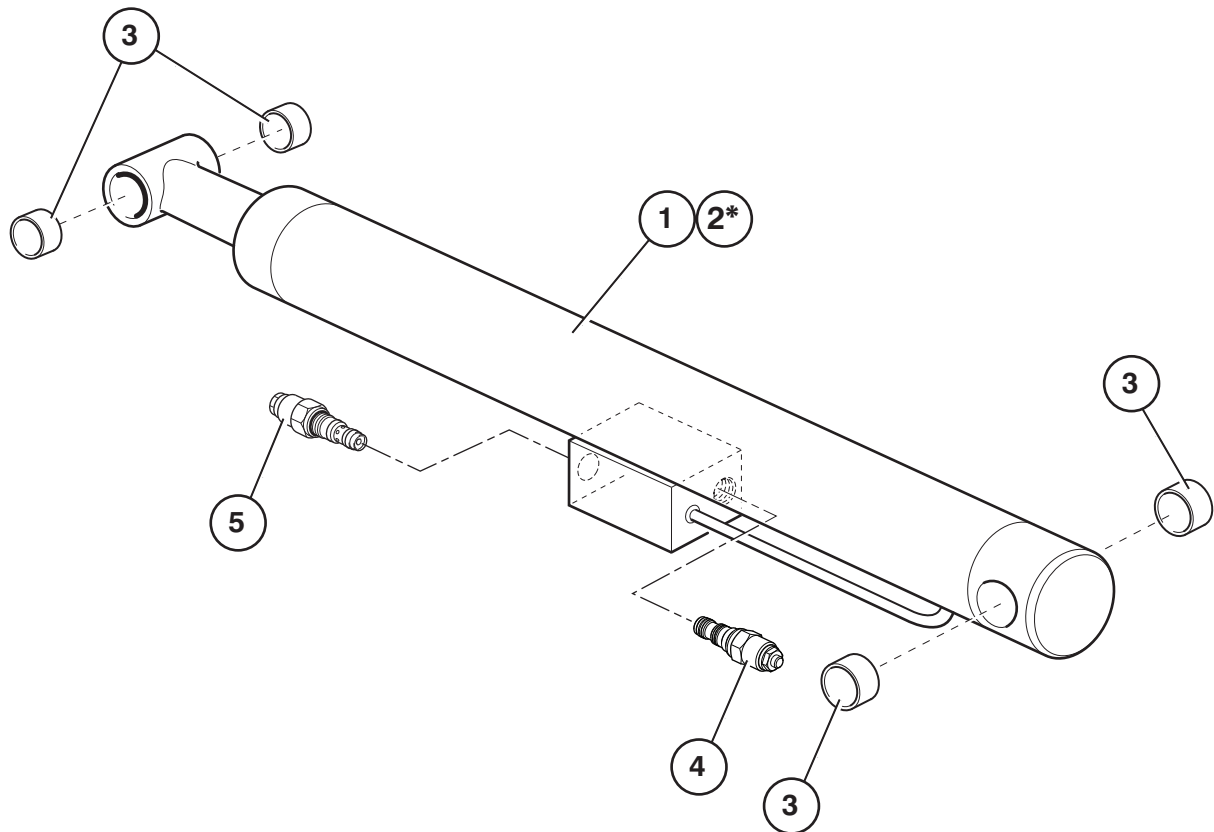
4-13

4.7 Flyboom cylinder

Item	Description				Part Number
1	Cylinder				P19413
2 *	Seal kit for item 1				P13267
3	Bush 3025DU				P10509
4	Load valve				P11956
5	Over centre valve				P15706

french
german
spanish

cage and flyboom



french
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cage and flyboom

4-15

4.8 Control panel assembly

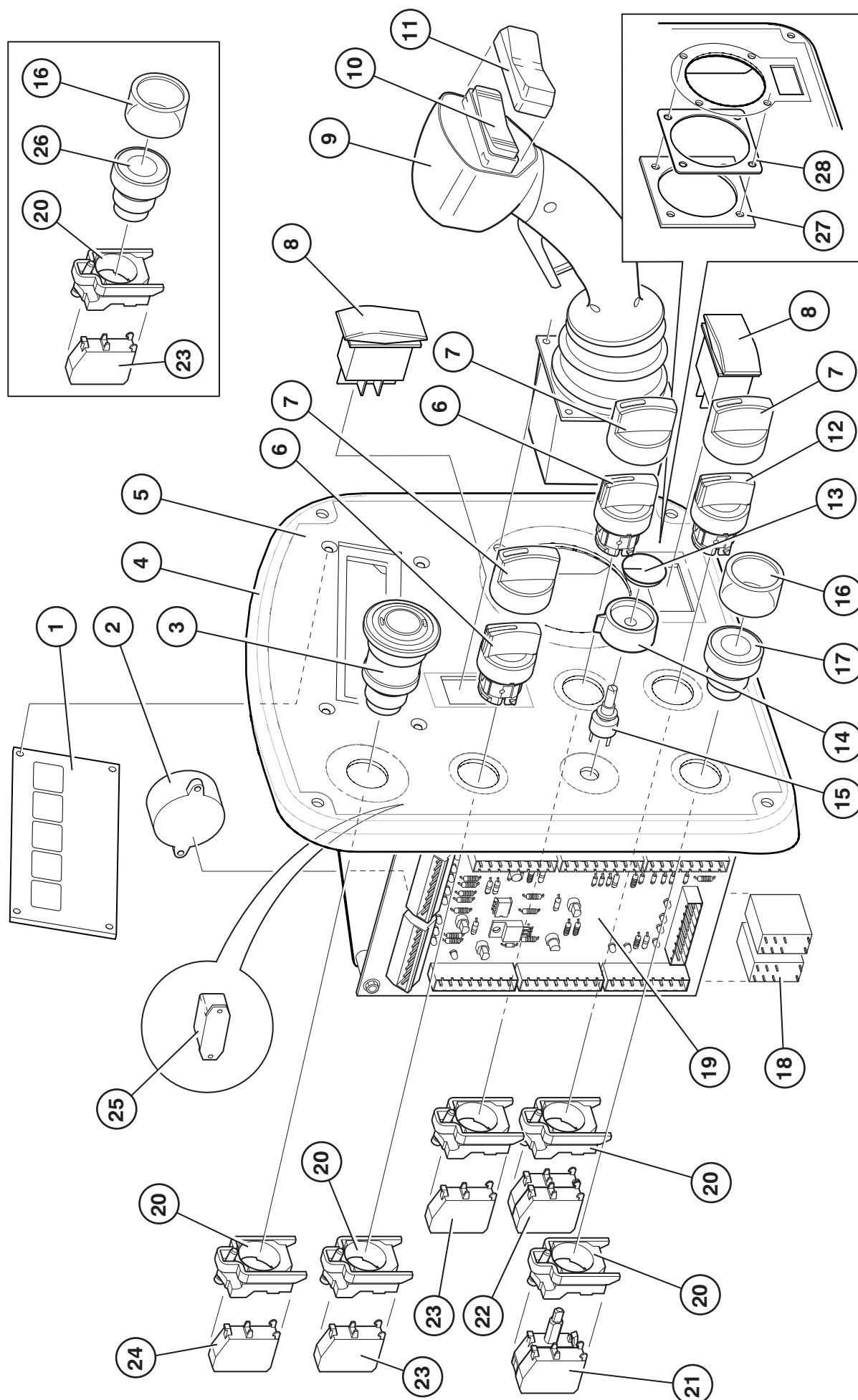
Item Description

Part Number

	Complete assembly				P29012
1	PCB - Cage display				P14460
2	Sounder				P11112
3	E-Stop button USA Only				P24317 P28564
4	Cage control lid				P23671
5	Label				P23666
6	Selector switch				P24318
7	Rubber cover				P24319
8	Switch (Carling)				P11763
9	Joystick				P12077
10	Switch				P17650
11	Rubber cover				P17651
12	Selector switch				P24327
13	Cap				P17734
14	Knob				P17733
15	Potentiometer				P17732
16	Rubber cover				P24332
17	Button - Green (Includes item 16)				P24333
18	Relay				P18486
19	PCB - Cage control				P17514
20	Base, switch				P24322
21	Contact LED block NO Green				P24323 P24338
22	Contact NO NO				P24323 P24323
23	Contact NO				P24323
24	Contact NC				P24324
25	Buzzer				P10341
26	Button - Blue (includes item 16)				P24331
27	Stiffener plate				P23879
28	Gasket				P23934

french
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spanish

cage and flyboom



french
german
spanish

cage and flyboom

Figure 4.8 Cage control panel

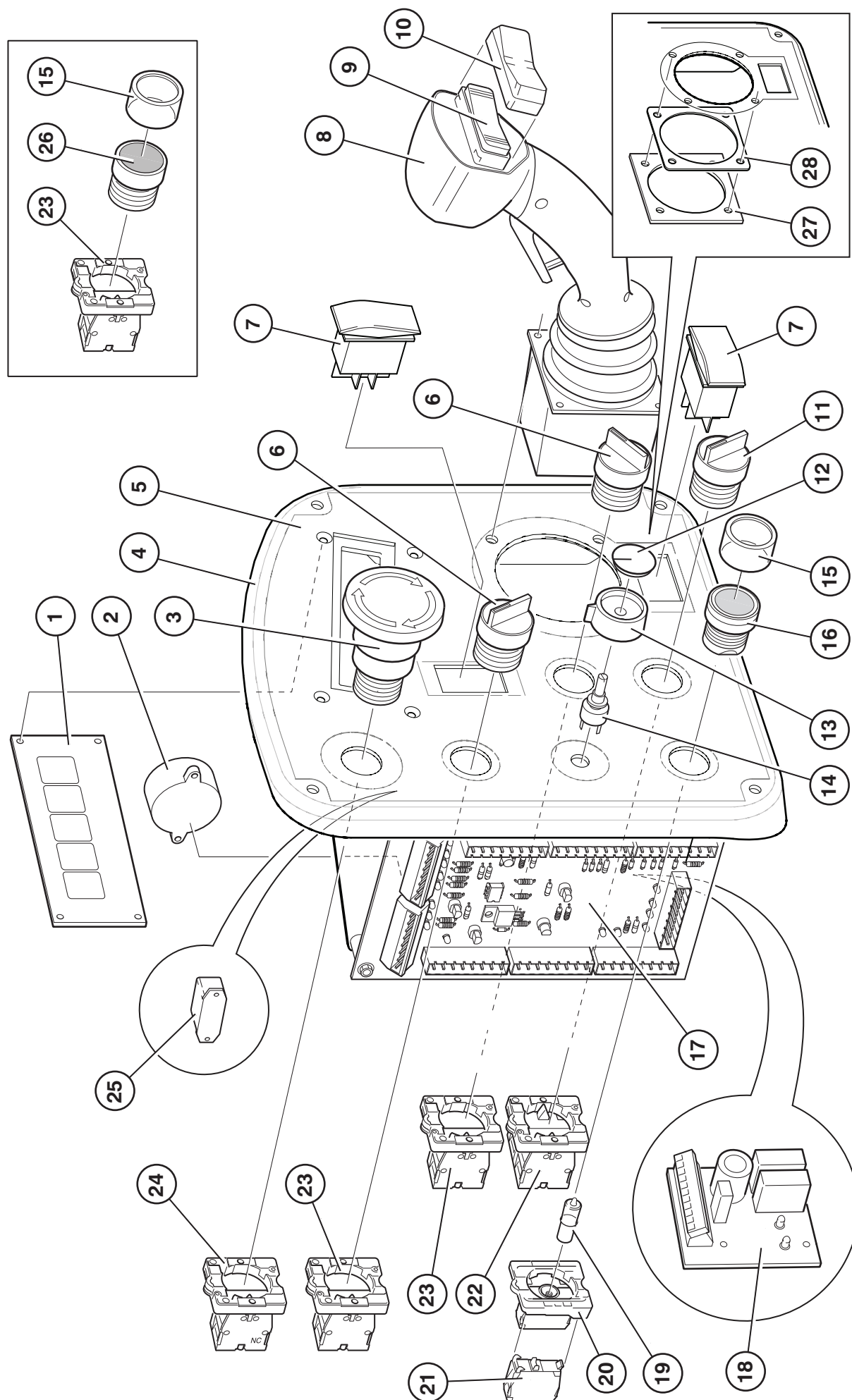
4.9 Control panel assembly (USA - SD64)

Item Description Part Number

	Complete assembly				P23609
1	PCB - Cage display				P14460
2	Sounder				P11112
3	E-Stop button				P21541
4	Cage control lid				P23671
5	Label				P23666
6	Selector switch				P10777
7	Switch (Carling)				P11763
8	Joystick				P12077
9	Switch				P17650
10	Rubber cover				P17651
11	Selector switch (Sprung)				P12692
12	Cap				P17734
13	Knob				P17733
14	Potentiometer				P17732
15	Rubber cover				P22414
16	Button - Green				P22063
17	PCB - Cage control				P17514
18	PCB - cage weigh				P16164
19	Lamp				P22066
20	Body, contact				P22064
21	Contact NO				P22065
22	Contact Double NO				P11840
23	Contact NO				P11838
24	Contact NC				P11839
25	Buzzer				P10341
26	Button - Blue				P11117
27	Stiffener plate				P23879
28	Gasket				P23934

french
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spanish

cage and flyboom



french
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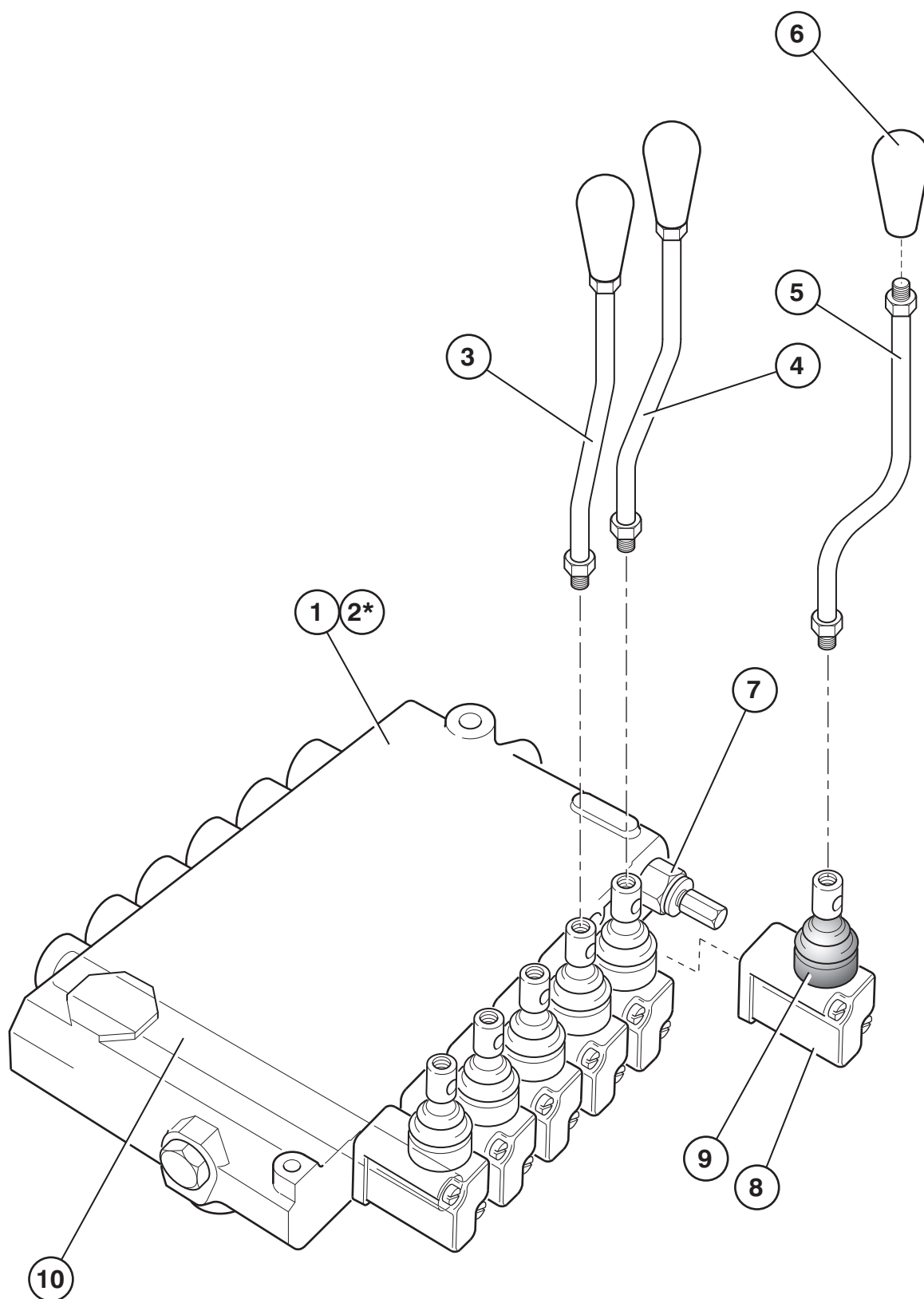
cage and flyboom

4.10 Control valve (6 spool)

Item	Description				Part Number
1	Control valve				P22645
2 *	Seal kit for item 1 (3 spool)				P70337
3	Lever 1 - Inner				P14077
4	Lever 2				P23329
5	Lever 3 - Outer				P20880
6	Knob				P14488
7	Pressure relief valve				P70335
8	Lever cap (complete)				P70338
9	Rubber boot				P12225
10	Spool (AS)				P15510

french
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spanish

cage and flyboom



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german
spanish

cage and flyboom



nifty



SD210 (SD64)

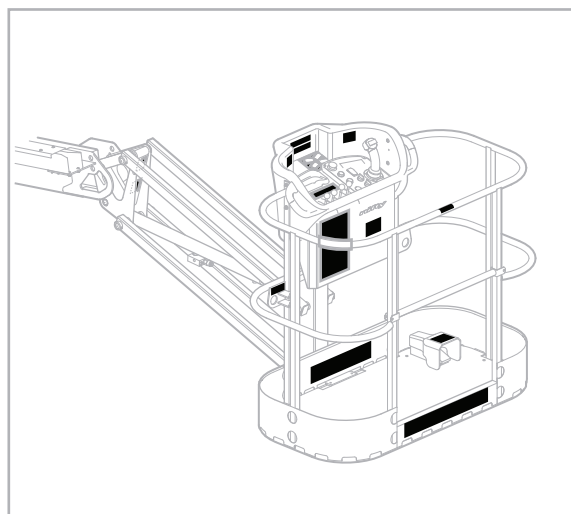
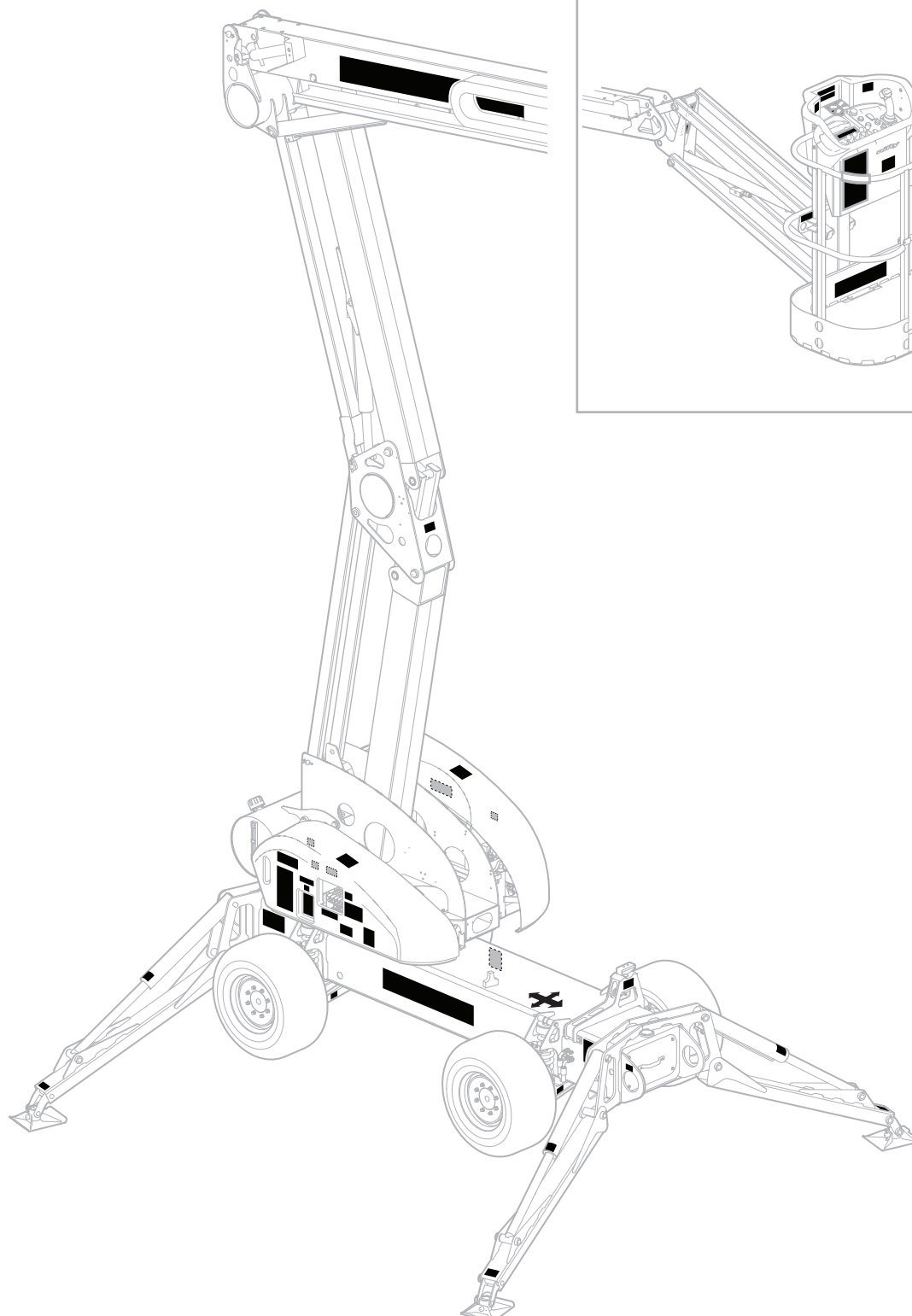


illustrated parts manual

Manuel illustré de pièces détachées

Illustrierte Stückliste

Manual de piezas ilustrado



5



labelling
french
german
spanish

5.1 Label locations

Item	Description	Part Number
1	10 Degree Lateral Tilt	P17668
	french	P17668
	german	P17668
	spanish	P17668
	dutch	P17668
	swedish	P17668
2	Horn	P23739
	french	P23739
	german	P23739
	spanish	P23739
	dutch	P23739
	swedish	P23739
3	If tilt alarm sounds	P18842
	french	P18843
	german	P18844
	spanish	P18845
	dutch	P18846
	swedish	P19637
4	Overload warning	P18848
	french	P18849
	german	P18850
	spanish	P18851
	dutch	P18852
	swedish	P19638
5	Danger - Do not place objects...	P21511
	french	P21512
	german	P21513
	spanish	P21514
	dutch	P21515
	swedish	P21517
6	Outrigger controls	P19192
	french	P19192
	german	P19192
	spanish	P19192
	dutch	P19192
	swedish	P19192

french
german
spanish

labelling

Item	Description	Part Number
7	Head protection	P14921
	french	P14921
	german	P14921
	spanish	P14921
	dutch	P14921
	swedish	P14921
8	Emergency stop switch	P14864
	french	P14865
	german	P14866
	spanish	P14867
	dutch	P16628
	swedish	P19625
9	Control panel decal - Cage	P23666
	french	P23666
	german	P23666
	spanish	P23666
	dutch	P23666
	swedish	P23666
10	Cage gate warning	P18335
	french	P18335
	german	P18335
	spanish	P18335
	dutch	P18335
	swedish	P18335
11	Harness point	P14883
	french	P14883
	german	P14883
	spanish	P14883
	dutch	P14883
	swedish	P14883
12	Niftylift.com	P14390
	french	P14390
	german	P14390
	spanish	P14390
	dutch	P14390
	swedish	P14390

french
german
spanish

labelling

5.1 continued

Item	Description	Part Number
13	Operating instructions	P14892
	french	P14892
	german	P14892
	spanish	P14892
	dutch	P14892
	swedish	P14892

14	Footswitch disabled	P14884
	french	P14885
	german	P14886
	spanish	P14887
	dutch	P16898
	swedish	P19626

15	Warning - SWL 225kg	P17328
	french	P17328
	german	P17328
	spanish	P17328
	dutch	P17328
	swedish	P17328

16	Toughcage	P21816
	french	P21816
	german	P21816
	spanish	P21816
	dutch	P21816
	swedish	P21816

17	General warning	P24900
	french	P21971
	german	P21972
	spanish	P21973
	dutch	P21974
	swedish	P21976

18	Control levers - Cage	P14020
	french	P14020
	german	P14020
	spanish	P14020
	dutch	P14020
	swedish	P14020

See Figure 5.1, Page 5-11

Item	Description	Part Number
19	SIOPS Instructions	P22820
	french	P22821
	german	P22822
	spanish	P22823
	dutch	P22824
	swedish	P22826
20	Nifty SD210 - Grey	P17436
	french	P17436
	german	P17436
	spanish	P17436
	dutch	P17436
	swedish	P17436
21	No step	P14785
	french	P14785
	german	P14785
	spanish	P14785
	dutch	P14785
	swedish	P14785
22	Noise warning	P17124
	french	P17124
	german	P17124
	spanish	P17124
	dutch	P17124
	swedish	P17124
23	Moving Machinery/Hot surfaces	P22314
	french	P22314
	german	P22314
	spanish	P22314
	dutch	P22314
	swedish	P22314
24	Serial plate	P15383
	french	P15383
	german	P15383
	spanish	P15383
	dutch	P15383
	swedish	P15383

french
german
spanish

labelling

5.1 continued

Item	Description	Part Number
25	Travel direction	P14784
	french	P14784
	german	P14784
	spanish	P14784
	dutch	P14784
	swedish	P14784

26	Hand crush	P14782
	french	P14782
	german	P14782
	spanish	P14782
	dutch	P14782
	swedish	P14782

27	Point load - 25 kN	P17558
	french	P17558
	german	P17558
	spanish	P17558
	dutch	P17558
	swedish	P17558

28	Jacking point	P17557
	french	P17557
	german	P17557
	spanish	P17557
	dutch	P17557
	swedish	P17557

29	Lifting, towing, tie down point	P17556
	french	P17556
	german	P17556
	spanish	P17556
	dutch	P17556
	swedish	P17556

30	Outriggers	P14841
	french	P14842
	german	P14843
	spanish	P14844
	dutch	P16262
	swedish	P19624

See Figure 5.1, Page 5-11

Item	Description	Part Number
31	Gearbox disengage	P19180
	french	P19757
	german	P19758
	spanish	P19759
	dutch	P19760
	swedish	P19724
32	4x4x4 - Grey	P17437
	french	P17437
	german	P17437
	spanish	P17437
	dutch	P17437
	swedish	P17437
33	Daily safety check list	P14908
	french	P14909
	german	P14910
	spanish	P14911
	dutch	P17318
	swedish	P19629
34	1, 2, 3, 4 - Grey	P17000
	french	P17000
	german	P17000
	spanish	P17000
	dutch	P17000
	swedish	P17000
35	Booms/Drive Selector	P23093
	french	P23093
	german	P23093
	spanish	P23093
	dutch	P23093
	swedish	P23093
36	Trip - Push to reset	P19056
	french	P19056
	german	P19056
	spanish	P19056
	dutch	P19056
	swedish	P19056

french
german
spanish

labelling

5-7

5.1 continued

Item	Description	Part Number
37	Electric Luffing/Levelling	P17559
	french	P17559
	german	P17559
	spanish	P17559
	dutch	P17559
	swedish	P17559

38	Hydraulic oil	P17226
	french	P14415
	german	P14415
	spanish	P14415
	dutch	P14415
	swedish	P14415

39	Diesel ONLY	P14414
	french	P14414
	german	P14414
	spanish	P14414
	dutch	P14414
	swedish	P14414

40	Emergency Controls Location	P22877
	french	P22877
	german	P22877
	spanish	P22877
	dutch	P22877
	swedish	P22877

41	Manual descent	P19605
	french	P19605
	german	P19605
	spanish	P19605
	dutch	P19605
	swedish	P19605

42	Control levers - Base	P22042
	french	P22042
	german	P22042
	spanish	P22042
	dutch	P22042
	swedish	P22042

See Figure 5.1, Page 5-11

Item	Description	Part Number
43	Chain inspection	P16535
	french	P17330
	german	P17331
	spanish	P17332
	dutch	P16539
	swedish	P19707
44	Emergency Controls Location	P21700
	french	P21700
	german	P21700
	spanish	P21700
	dutch	P21700
	swedish	P21700
45	Daily safety check list	P14908
	french	P14909
	german	P14910
	spanish	P14911
	dutch	P17318
	swedish	P19629
46 *	Rotating Machinery	P15010
	french	P15010
	german	P15010
	spanish	P15010
	dutch	P15010
	swedish	P15010
47	Control box decal - Base	P16752
	french	P16752
	german	P16752
	spanish	P16752
	dutch	P16752
	swedish	P16752
48	Clunk Click	P19961
	french	P19961
	german	P19961
	spanish	P19961
	dutch	P19961
	swedish	P19961

french
german
spanish

labelling


5.1 continued

Item	Description	Part Number
49	IPAF - Are you trained?	P22055
	french	P22055
	german	P22055
	spanish	P22055
	dutch	P22055
	swedish	P22055

50	General Notice	P21941
	french	P21942
	german	P21943
	spanish	P21944
	dutch	P21945
	swedish	P21947

51	Battery isolator	P18600
	french	P18600
	german	P18600
	spanish	P18600
	dutch	P18600
	swedish	P18600

52	Battery drain	P19850
	french	P19851
	german	P19852
	spanish	P19853
	dutch	P19854
	swedish	P19856

53 *	Nifty SD64 - Grey	P19421
	french	P19421
	german	P19421
	spanish	P19421
	dutch	P19421
	swedish	P19421

54	Cage tie-down warning	P21404
	french	P21404
	german	P21404
	spanish	P21404
	dutch	P21404
	swedish	P21404

* USA (SD64) Only

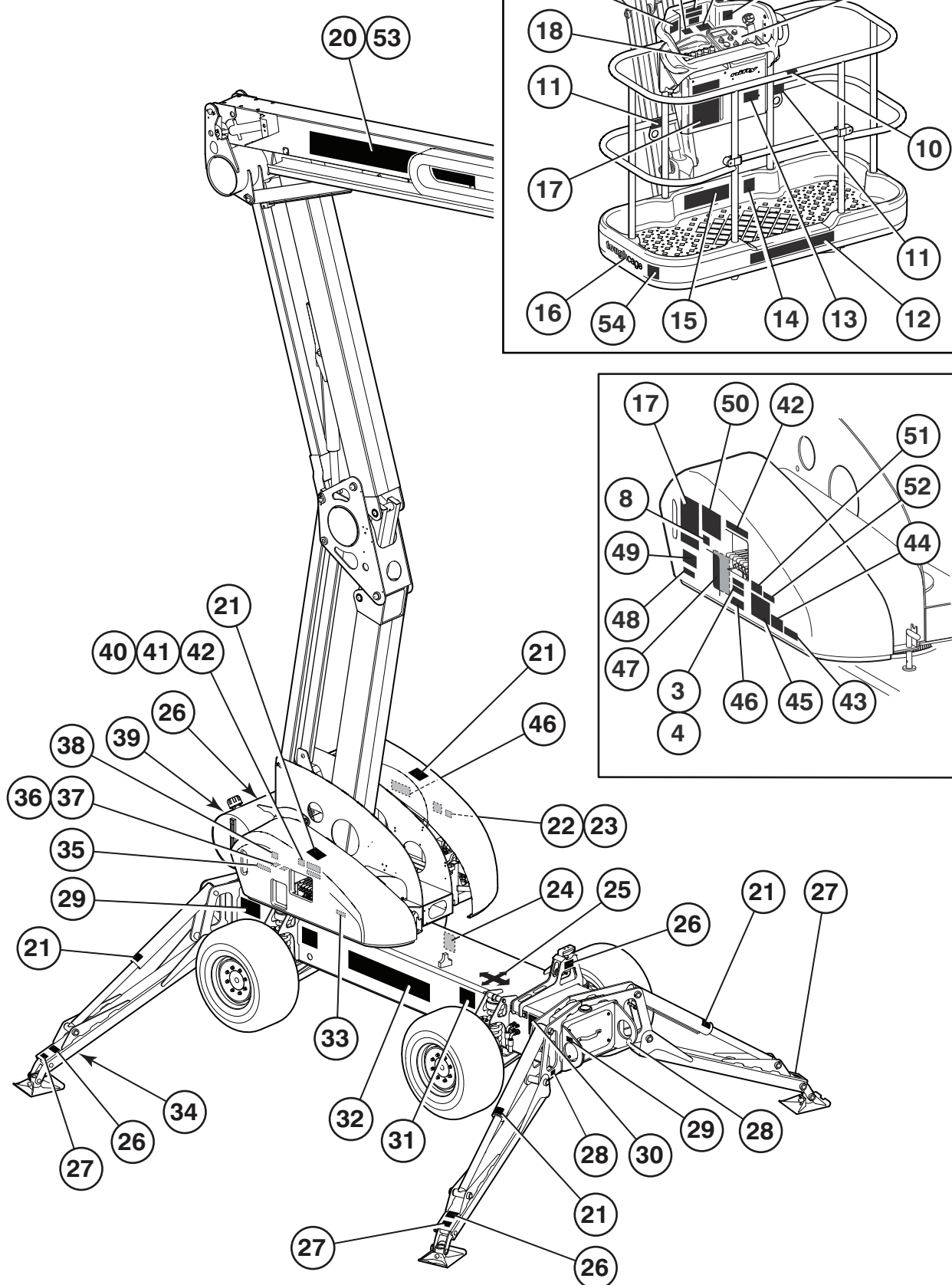
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french
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labelling

Please refer to Figure 5.2 & 5.3 for representation of labels



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labelling

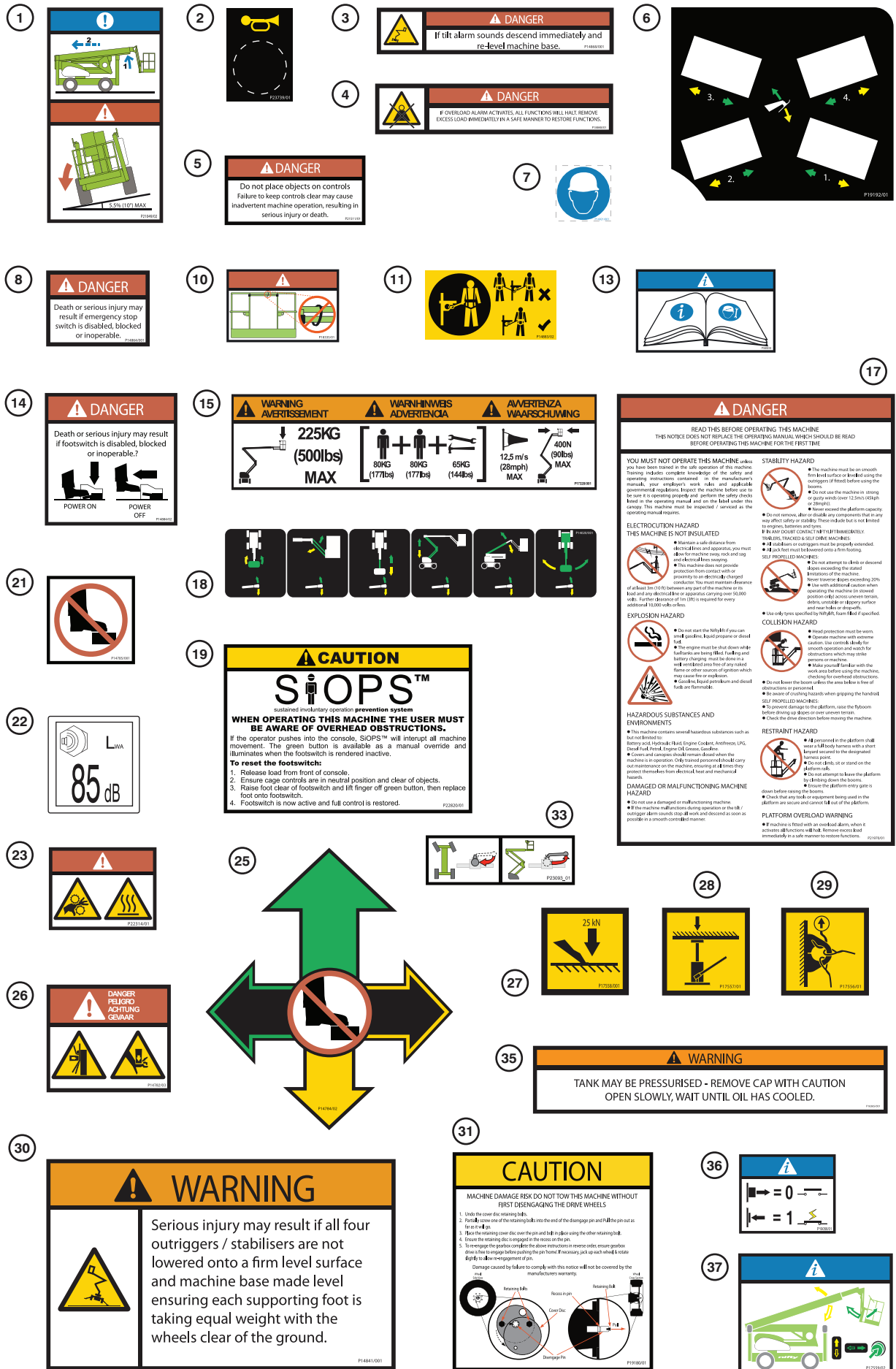
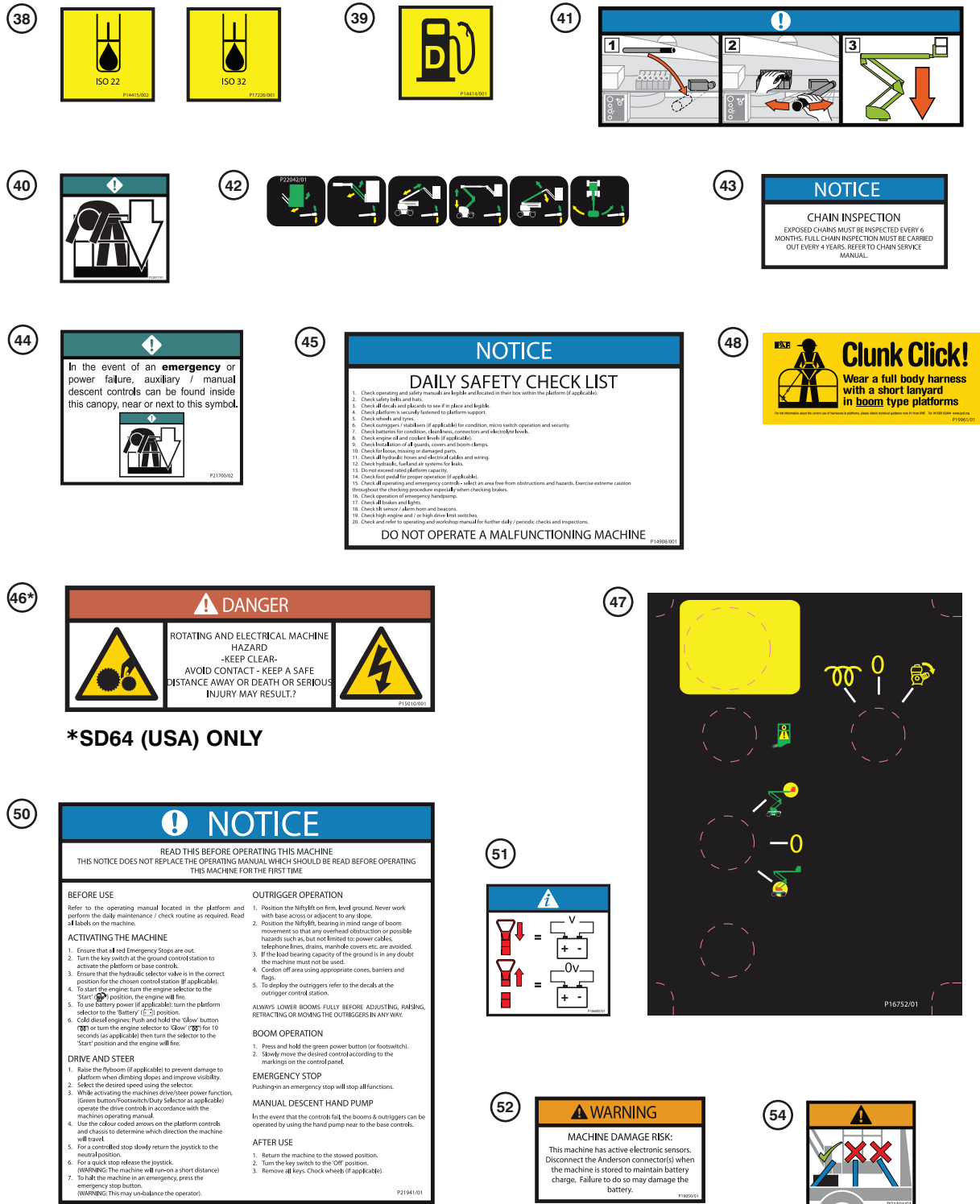


Figure 5.2 Labels (1-37)



french
german
spanish

labelling

