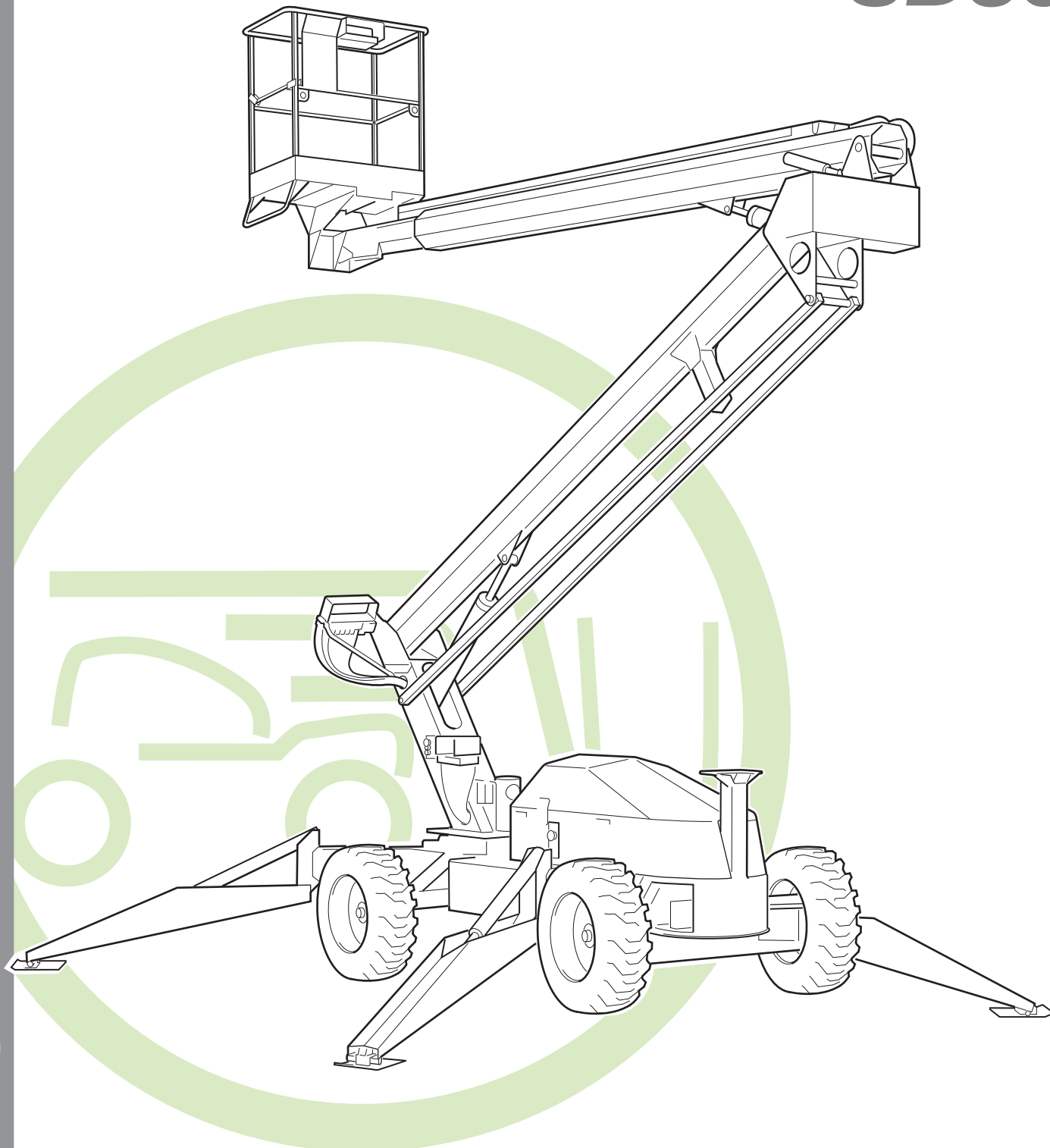




nifty

SD170 **SD50**



niftylift.com

M50160/14



Issue 14
(April 2016)

illustrated parts manual

Manuel illustré de pièces détachées

Illustrierte Stückliste

Manual de piezas ilustrado

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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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1525 S.Buncombe Road
Greer
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Tel +44 (0)1908 857899
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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:

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Milton Keynes
MK13 OER
Großbritannien

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

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**

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chassis

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Issue Records

Chapter	Pages	Issue	Date	Comments/Changes
Introduction	8	14	04/2016	Fourteenth issue
1	12	10	04/2016	Tenth issue
2	20	13	04/2016	Revisions on Pages 2-2 to 2-11
3	28	12	10/2014	Twelfth issue
4	18	11	04/2016	Eleventh issue
5	18	5	10/2014	Fifth issue
6	8	4	10/2014	Fourth issue

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

United Kingdom

Tel +44 (0)1908 857899
 Fax +44 (0)1908 227460
 Email service@niftylift.com

USA

1 864 968 8881
 1 864 968 8836
niftyusa@niftylift.com



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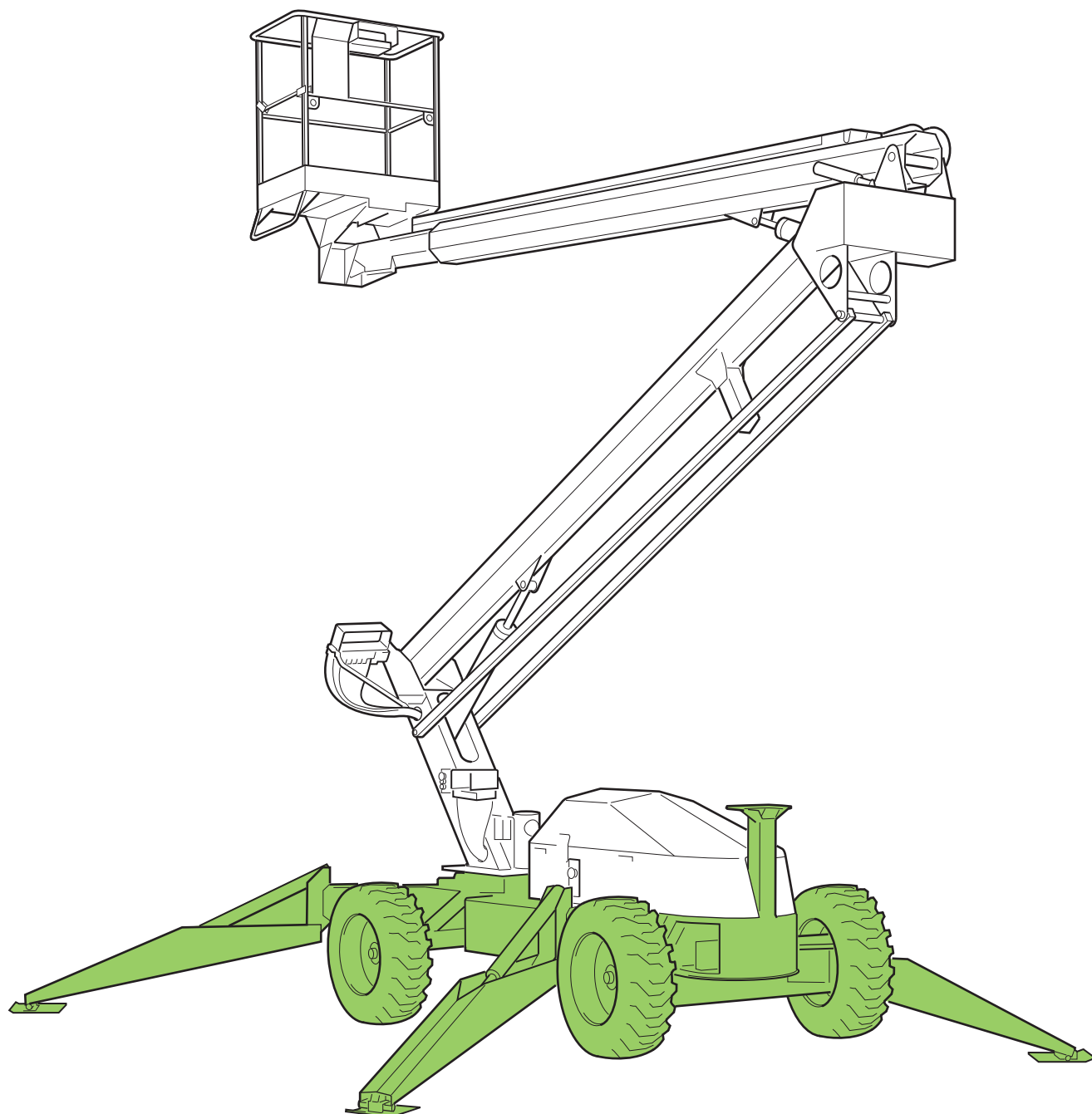
SD170 (SD50)

illustrated parts manual

Manuel illustré de pièces détachées

Illustrierte Stückliste

Manual de piezas ilustrado



1

chassis assembly

french
german
spanish

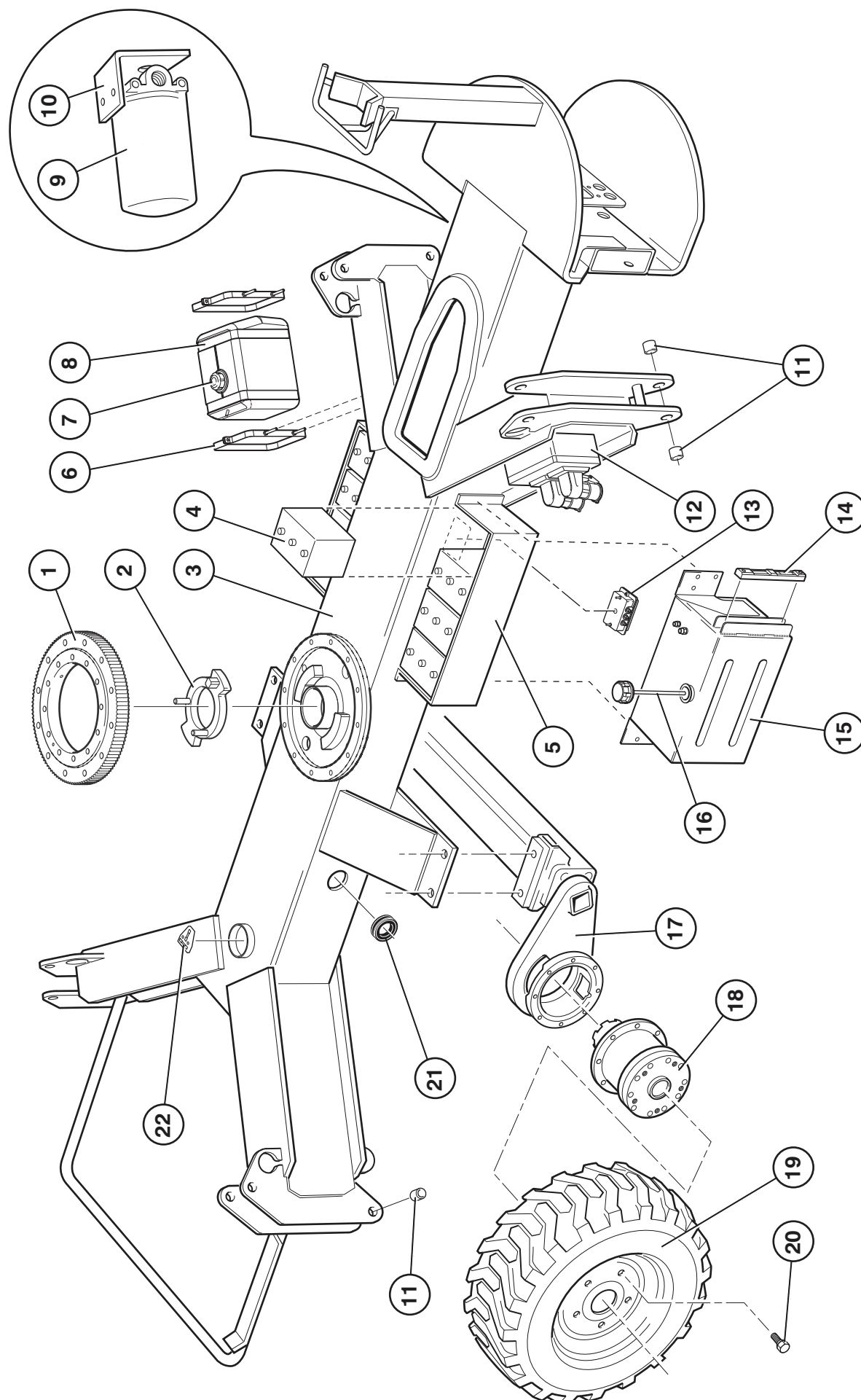
1.1 Base assembly

Item	Description	Part Number			
1	Gear wheel				P25593
2	Slew stop				P20046
3	Chassis fabrication				P29412
4	Battery				P10829
5	Battery carrier				P10786
6	Mounting bracket				P29600
7	Filler cap				P17275
8	Diesel fuel tank (Bi-energy ONLY)				P14463
9	Hydraulic oil filter & bowl assembly Cartridge ONLY				P12780 P13937
10	Bracket				P11047
11	Bush (Top hat 3016)				P16337
12	Dual voltage charger box - <i>See "Dual voltage charger box" on page 1-10.</i>				P10599
13	Terminal box				P10077
14	Level gauge				P13252
15	Diesel fuel tank				P17842
16	Filler cap Dipstick				P13437 P11643
17	Axle assembly				P16124
18	Wheel gearbox Seal kit *				P15698 P18126
19	Wheel & Tyre *LH RH				P16379 P16380
20	Wheel bolt				P22001
21	Rubber grommet				P11283
22	Spirit level				P10228

* Not illustrated

french
german
spanish

chassis assembly



french
german
spanish

chassis assembly

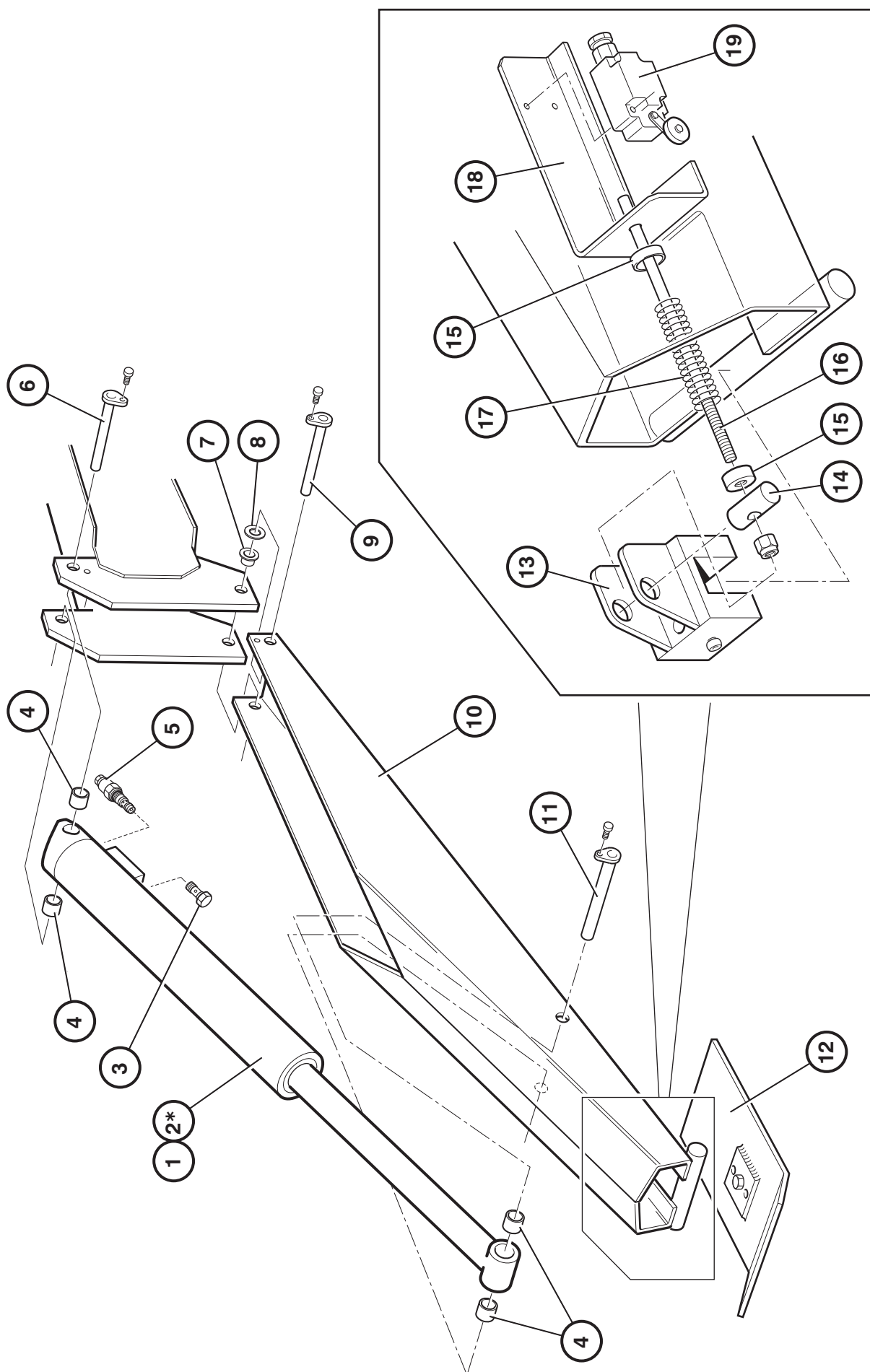
1.2 Stabiliser assembly

Item	Description				Part Number
1	Cylinder Rod diameter - 45mm				P16589
2 *	Seal Kit for item 1 Rod diameter - 45mm				P16893
3	Check valve				P17317
4	Bush 3025				P10509
5	Load valve				P11956
6	Pivot pin - 127mm				P10911
7	Bush				P16337
8	Washer				P10511
9	Pivot pin - 176mm				P10909
10	Stabiliser (Outrigger)				P10763
11	Pivot pin - 173mm				P10910
12	Foot plate				P10764
13	Keeper block				P10765
14	Pin - 40mm				P10127
15	Cup				P10986
16	Actuating rod				P10988
17	Spring				P10987
18	Bracket				P10985
19	Limit switch				P19118

* Not illustrated

french
german
spanish

chassis assembly



french
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spanish

chassis assembly

1-5

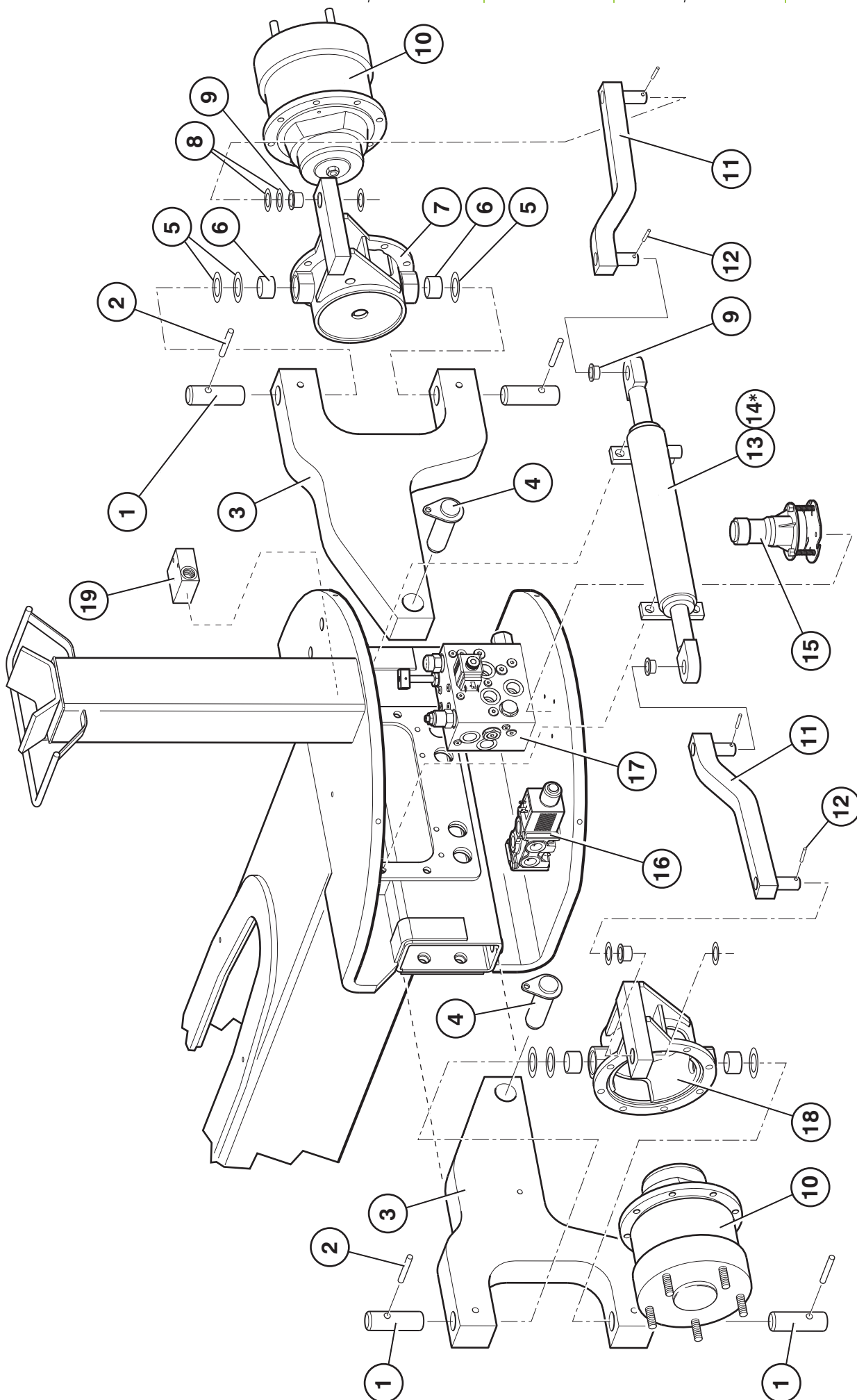
1.3 Steering/Drive assembly

Item	Description				Part Number
1	Pin - 90mm				P16220
2	Roll pin				P16860
3	Stub axle				P15810
4	Pivot pin - 97mm				P10498
5	Washer				P16062
6	Bush				P10509
7	Steer hub LH				P15811
8	Washer - Shim				P16524
9	Bush				P12320
10	Wheel gearbox Seal kit *				P15698 P18126
11	Track rod				P15918
12	Roll pin				P13044
13	Steer cylinder				P12781
14 *	Seal kit for item 13				P13047
15	Tilt sensor (USA/ Canada ONLY)				P19841
16	Valve - 6/2				P21319
17	Valve block				P20603
18	Steer hub RH				P15812
19	PRV - 100 Bar				P22470

* Not illustrated

french
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chassis assembly



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chassis assembly

1-7

Figure 1.3 Steering/Drive assembly

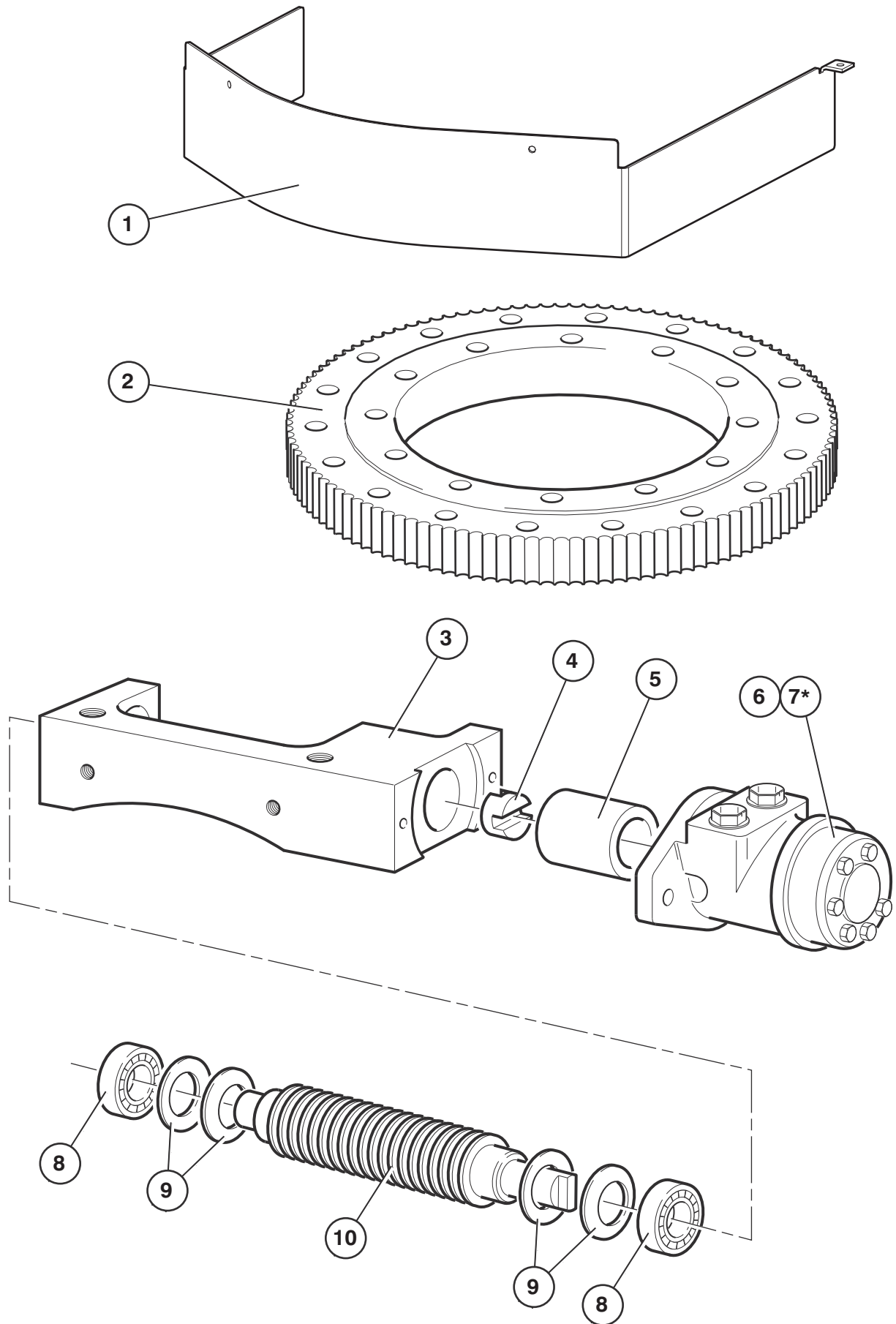
1.4 Slew assembly

Item	Description				Part Number
	Complete assembly (Items 3 to 10)				P19498
1	Slew guard				P27218
2	Slew ring				P25593
3	Worm bracket				P12681
4	Coupling				P12145
5	Spacer				P12143
6	Motor				P14306
7 *	Seal kit for item 6				P13242
8	Bearing				P12703
9	Belleville washer				P12150
10	Worm gear				P14502

* Not illustrated

french
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spanish

chassis assembly



french
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chassis assembly

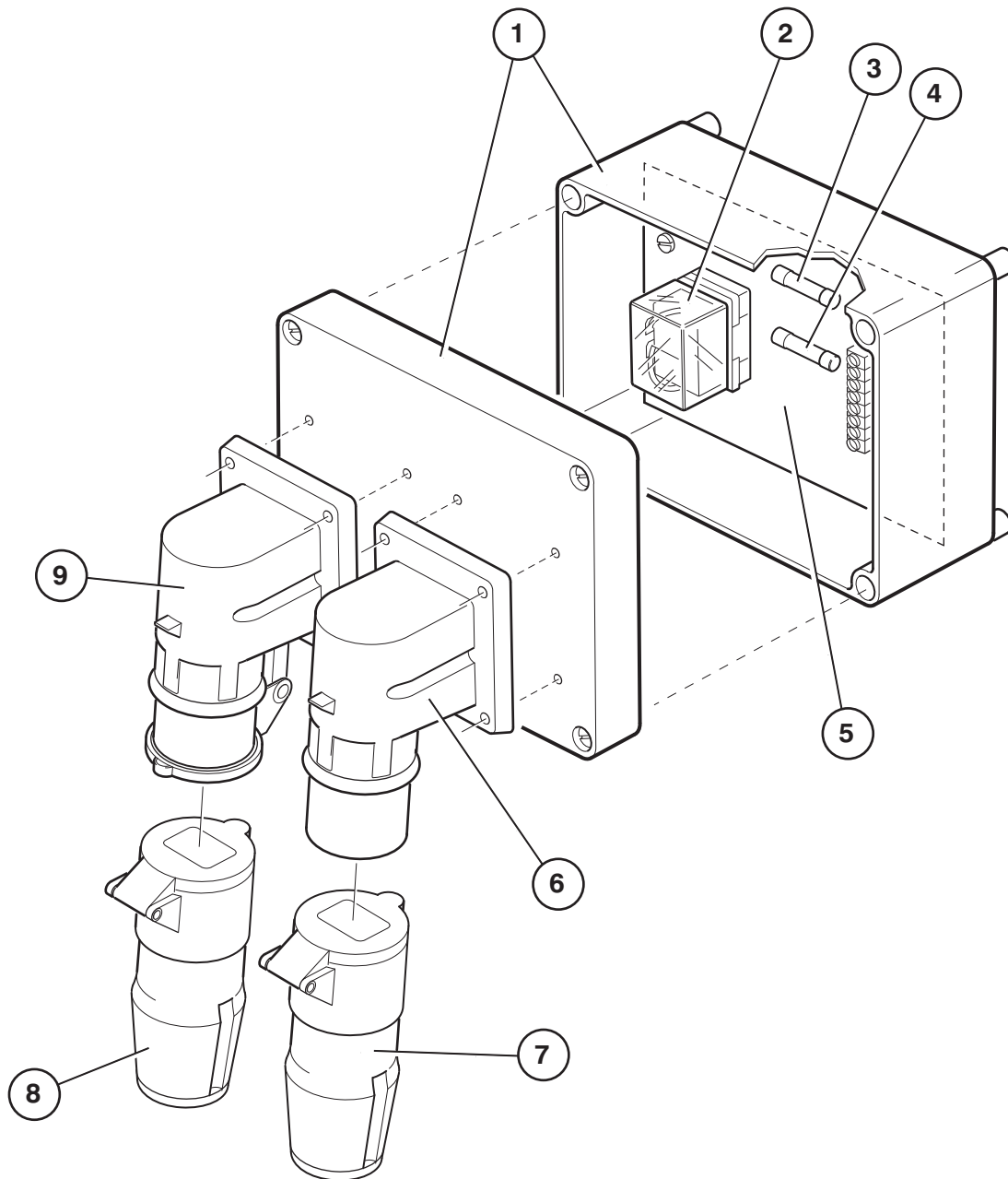
1.5 Dual voltage charger box

Item	Description				Part Number
	Complete assembly				P10599
1	Box ONLY				P20815
2	Relay				P12879
3	Fuse - 10A				P70176
4	Fuse - 20A				P11935
5	PCB				P13351
6	110v inlet ONLY				P20956
7	Plug - 110v				P10724
8	Plug - 240v				P10268
9	240v inlet ONLY				P20957

french
german
spanish

chassis assembly

1-10



french
german
spanish

chassis assembly



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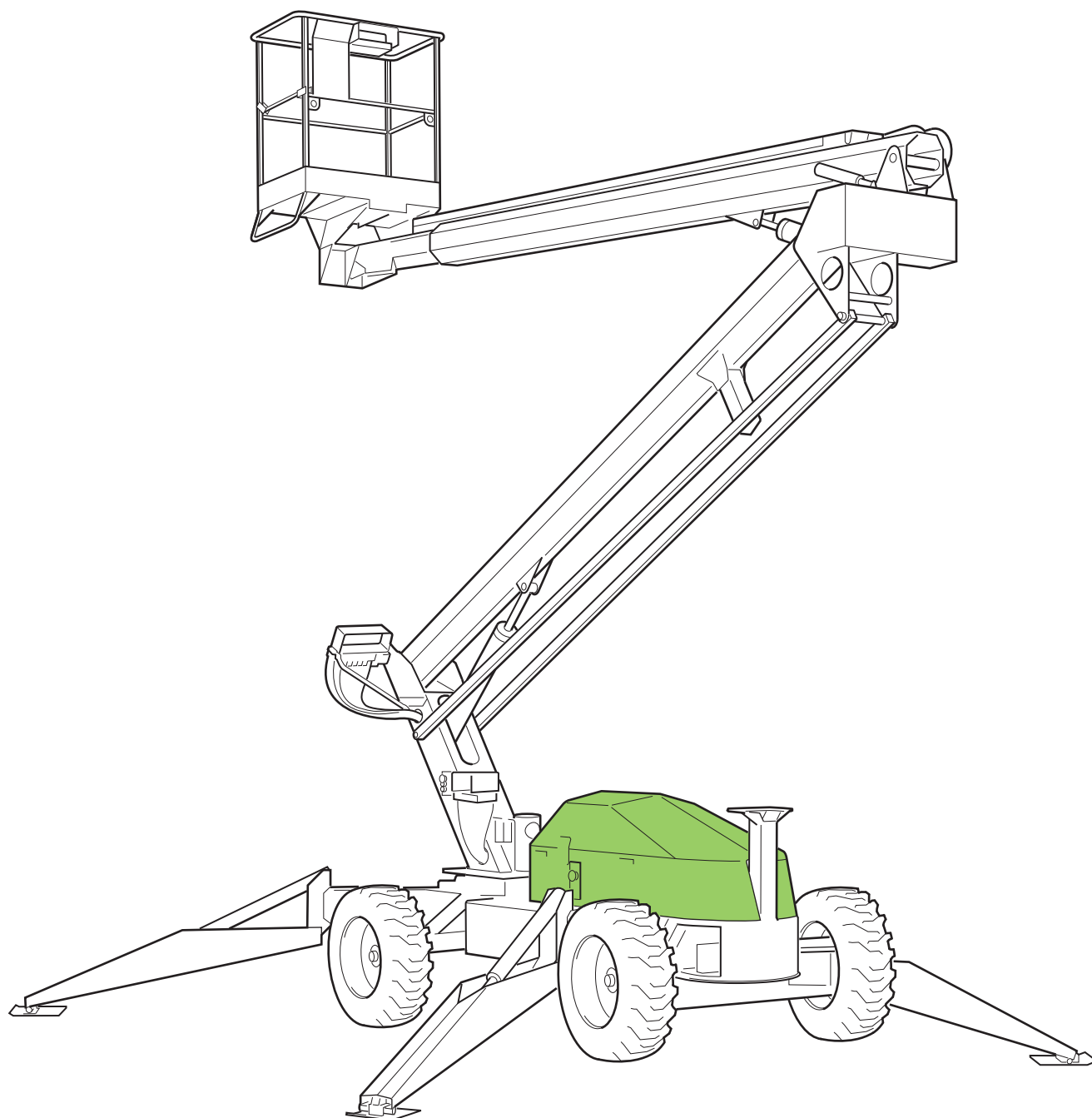
SD170 (SD50)

illustrated parts manual

Manuel illustré de pièces détachées

Illustrierte Stückliste

Manual de piezas ilustrado



2



power tray
french
german
spanish

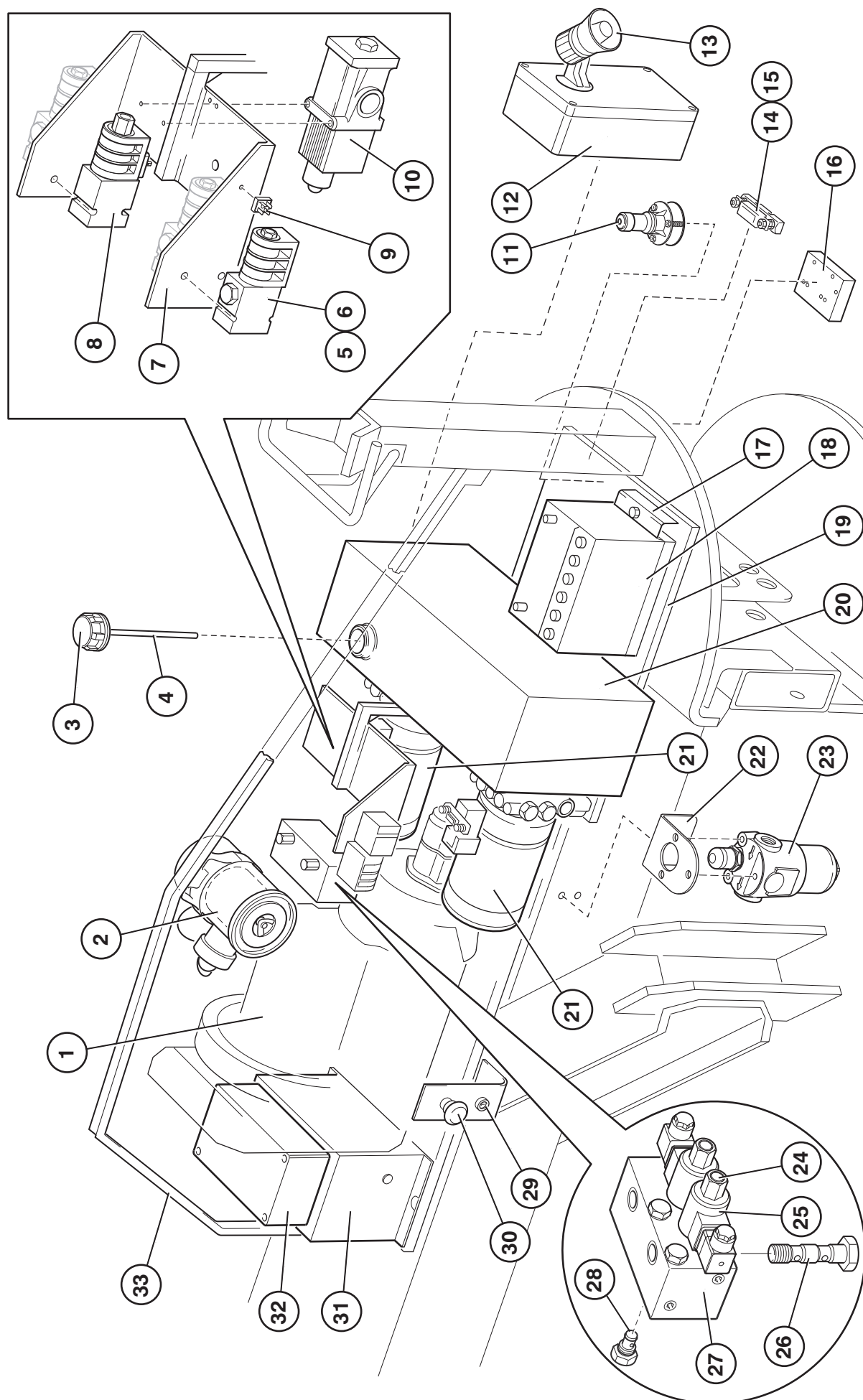
2.1 Power tray

Item	Description				Part Number
1	Diesel engine See "Diesel engine - Part 1" on page 2-8.				P28562
2	Air filter element				P17809
3	Filler cap				P10136
4	Dip stick				P11643
5	Solenoid valve assembly				P10132
6	Coil only				P70354
7	Support bracket <i>Eur</i> <i>USA*</i>				P29019 P26695
8	Dump valve Coil ONLY				P26939 P27695
9	Rectifier				P15763
10	Diverter valve				P21610
11	Tilt sensor (Option)				P16109
12	PCB Control box - See "Control box" on page 2-12.				N/A
13	Siren				P11113
14	Fuse - 125A				P12696
15	Fuse holder				P24708
16	Regulator (Bi-energy only)				P27689
17	Battery clamp				P12295
18	Battery				P11975
19	Mounting tray				P27854
20	Hydraulic oil tank Bi-energy Diesel ONLY				P16500 P12868
21	Power pack See "DC Power pack" on page 2-6.				P25869

* Not illustrated

french
german
spanish

power tray



french
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spanish

power tray

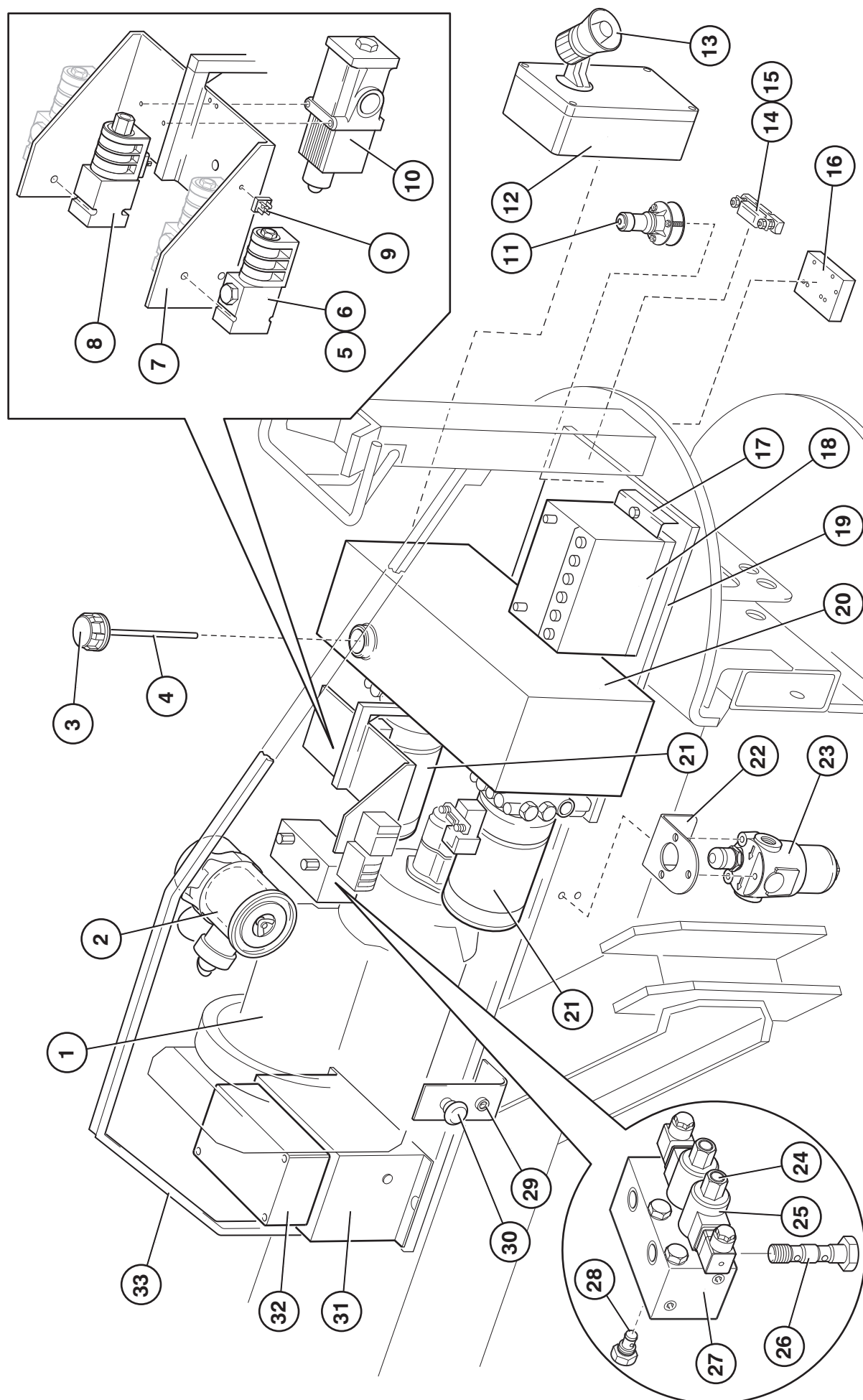
2.2 continued

Item	Description				Part Number
22	Bracket				P26326
23	Pressure Filter Element ONLY Condition indicator				P28561 P28924 P24945
24	Valve cartridge				P29526
25	Coil				P29527
26	Banjo bolt				P11948
27	Manifold assembly				P28153
28	Check valve				P17946
29	Starter switch assembly				P14428
30	Isolator button Red Knob ONLY * Contact switch				P12650 P25021 P70327
31	Battery Charger UK USA European See "Battery charger" on page 2-16.				P12759 P11751 P11067
32	Diesel control box See "Diesel box" on page 2-14.				P13627
33	Spine				P12261

* Not illustrated

french
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power tray



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power tray

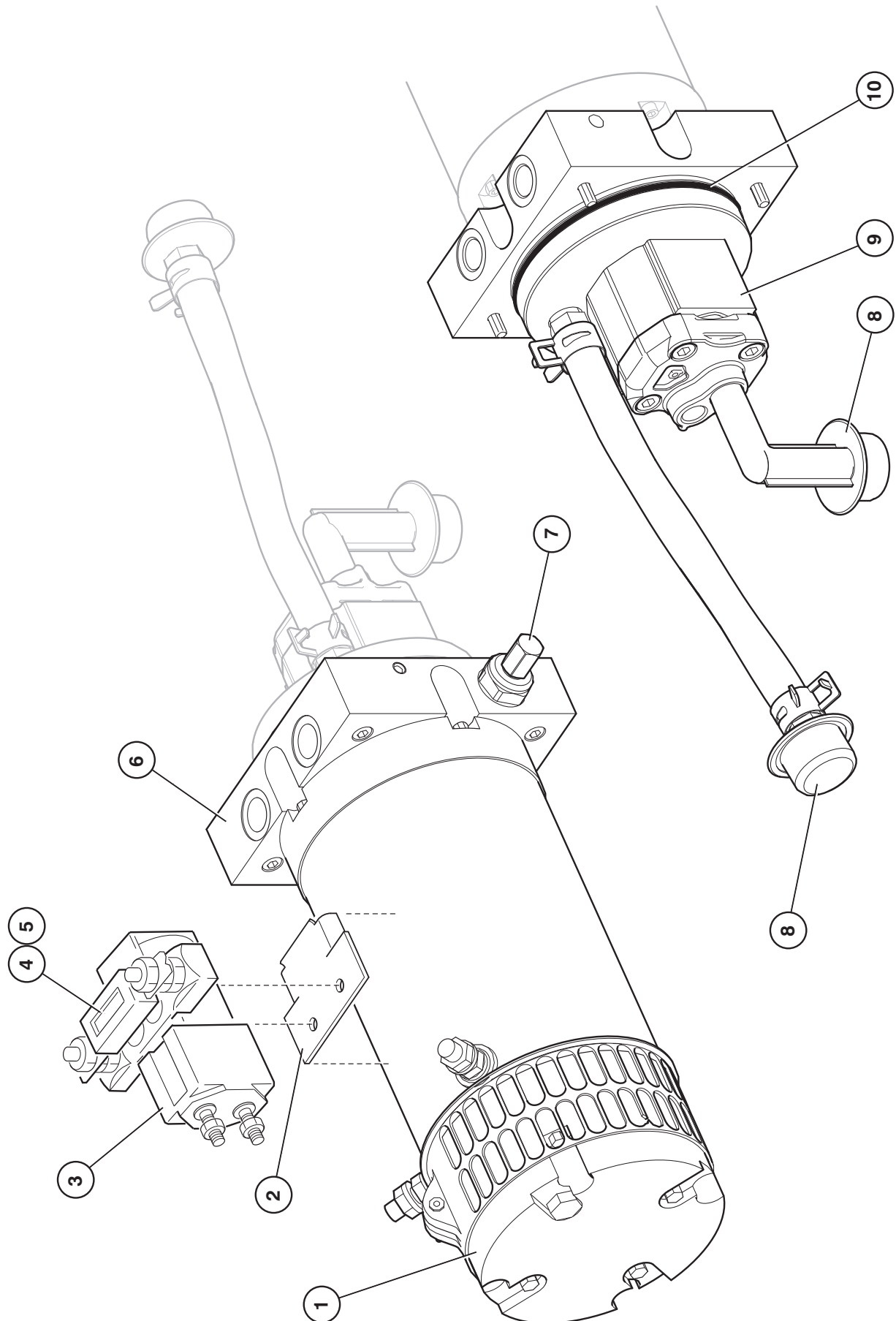
2-5

2.2 DC Power pack

Item	Description				Part Number
	Power pack assembly				P25869
1	Motor				P28443
2	Contactor plate				P16315
3	Contact solenoid - 12v (Bi-energy)				P11877
4	Fuse - 225A				P11977
5	Fuse holder				P24708
6	Flange - Motor				P28444
7	Relief valve kit				P28448
8	Filter				P28447
9	Pump 2.2cc				P28446
10	O-ring				P28449

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spanish

power tray



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power tray

2-7

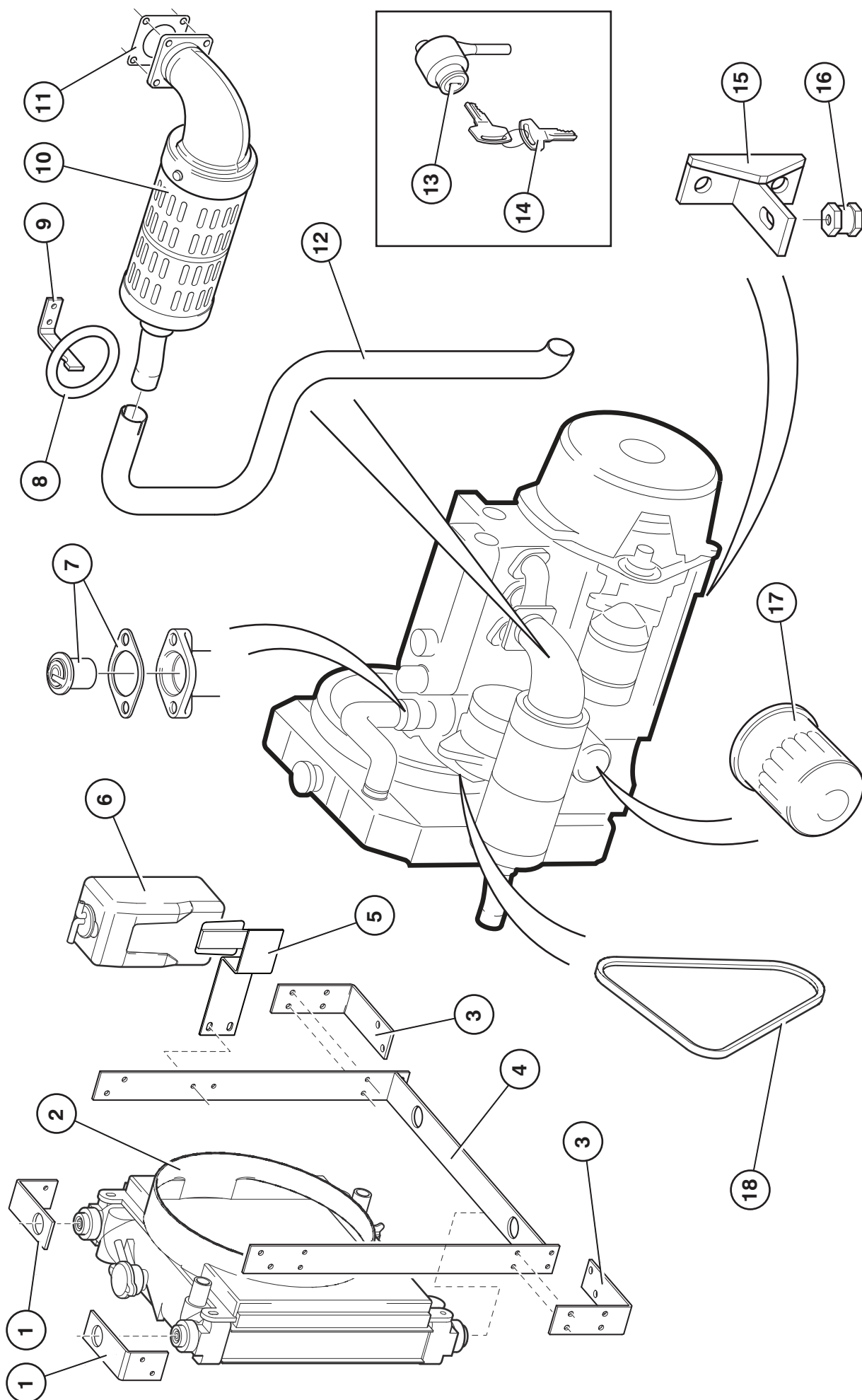
2.3 Diesel engine - Part 1

Item	Description				Part Number
	Diesel engine - D902				P28562
1	Upper bracket				P28017
2	Radiator kit				P24979
3	Lower bracket				P28018
4	Bracket - Radiator				P27995
5	Bracket - Bottle				P19247
6	Expansion bottle Filler cap ONLY				P24958 P24941
7	Thermostat and gasket				P14620
8	Rubber ring				P16321
9	Support bracket				P21988
10	Muffler assembly				P16051
11	Muffler gasket				P13282
12	Exhaust pipe				P29243
13	Starter switch assembly				P14428
14	Starter key (Pair)				P11646
15	Engine mount - Bracket				P27859
16	Engine mount - Rubber				P12238
17	Oil filter cartridge				P13285
18	V-belt				P13281
19*	Fan assembly (5 blade) Guard				P28049 P24980

* Not illustrated

french
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power tray



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power tray

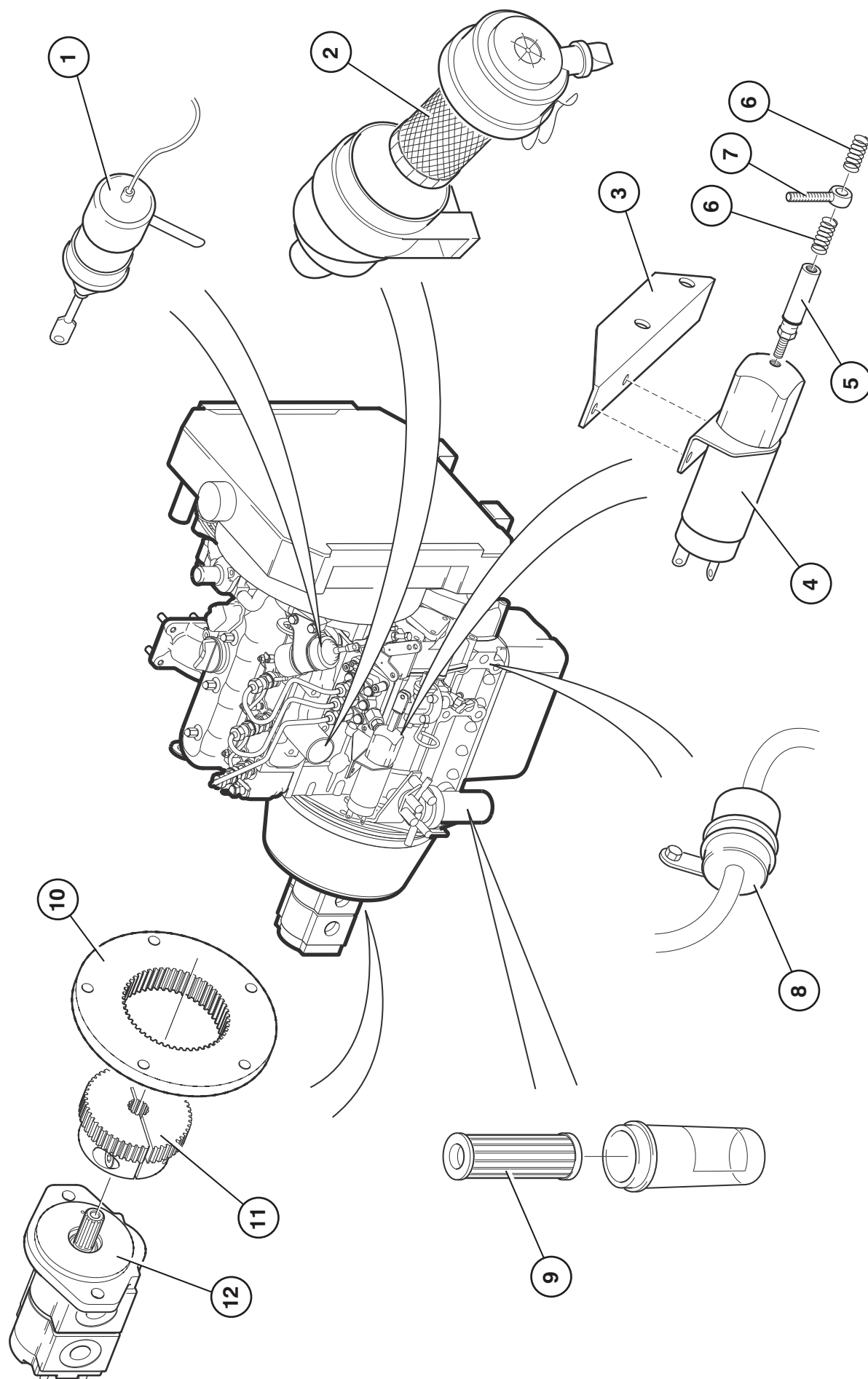
2.4 Diesel engine - Part 2

Item	Description				Part Number
1	Stop solenoid				P13371
2	Air filter				P17809
3	Bracket				P24416
4	Throttle solenoid				P12972
5	Swivel				P19279
6	Spring				P19281
7	Eye bolt				P19280
8	In-line fuel filter				P24963
9	Fuel filter				P13339
10	Drive flange				P20282
11	Drive hub				P20283
12	Pump assembly				P25101
13*	Seal kit for item 12				P13367
14*	Bell housing kit Diesel Diesel/Electric				P28411 P28234

* Not illustrated

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power tray



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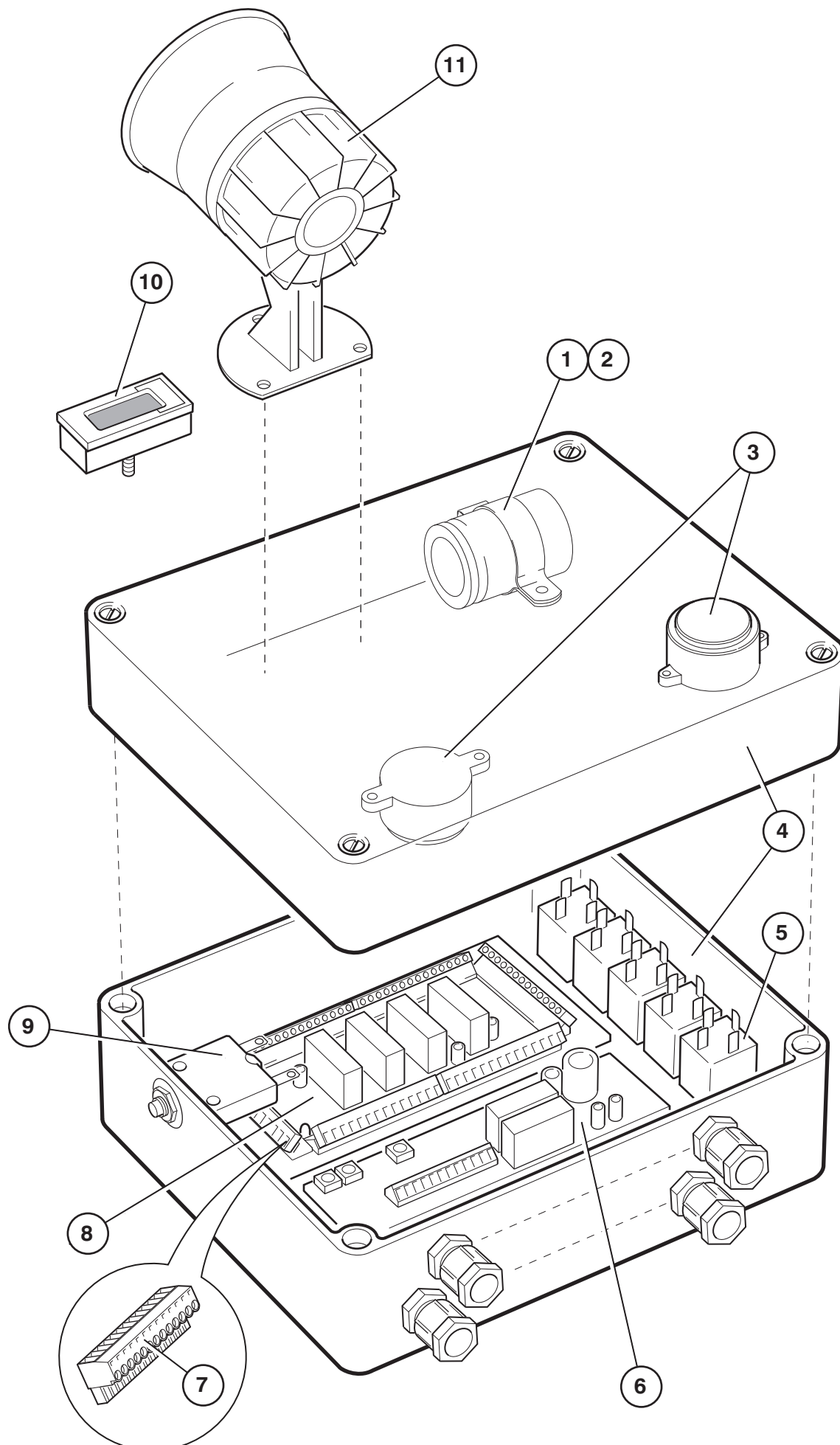
power tray

2.5 Control box

Item	Description				Part Number
1	Capacitor				P15528
2	Clip				P15529
3	Sounder				P11112
4	ABS box				P25515
5	Relay				P10340
6	PCB (Battery management) - 12v				P11174
7	Plug - 13-way				P12945
8	PCB- 12v				P11175
9	Circuit breaker - 15A				P11050
10	Hour meter (OPTIONAL)				P11410
11	Siren				P11113

french
german
spanish

power tray



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german
spanish

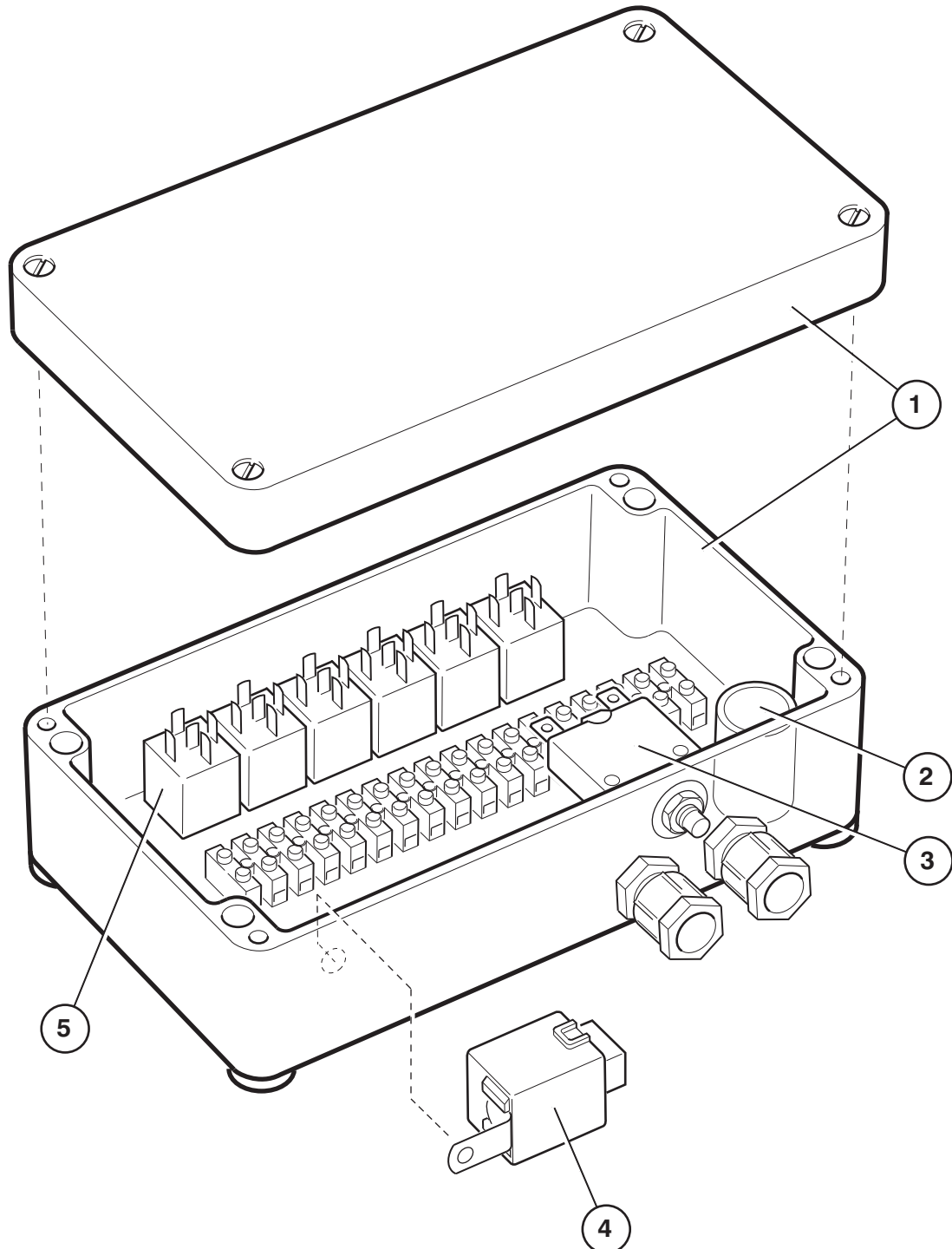
power tray

2.6 Diesel box

Item	Description				Part Number
	Complete assembly				P13627
1	ABS Box				P12861
2	Capacitor				P14270
3	Circuit breaker - 35A				P13529
4	Timer relay				P10664
5	Relay				P10340
6	Hour meter (OPTIONAL)				P11499

french
german
spanish

power tray



french
german
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power tray

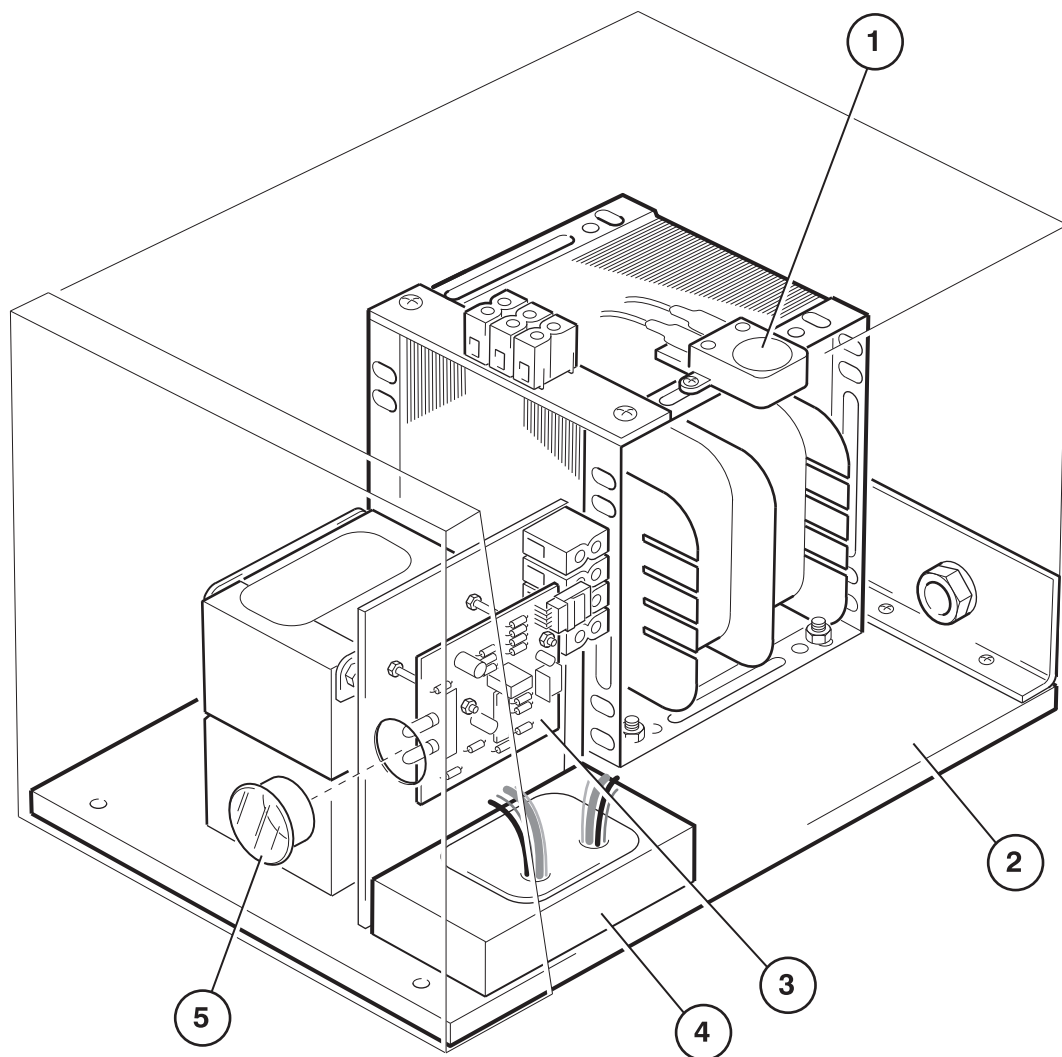
2-15

2.7 Battery charger

Item	Description				Part Number
1	Thermal cut-out - 240v (Euro only)				P15269
2	Charger assy UK USA European				P12759 P11751 P11067
3	PCB				P11371
4	Thyristor module				P14993
5	Lens				P11104

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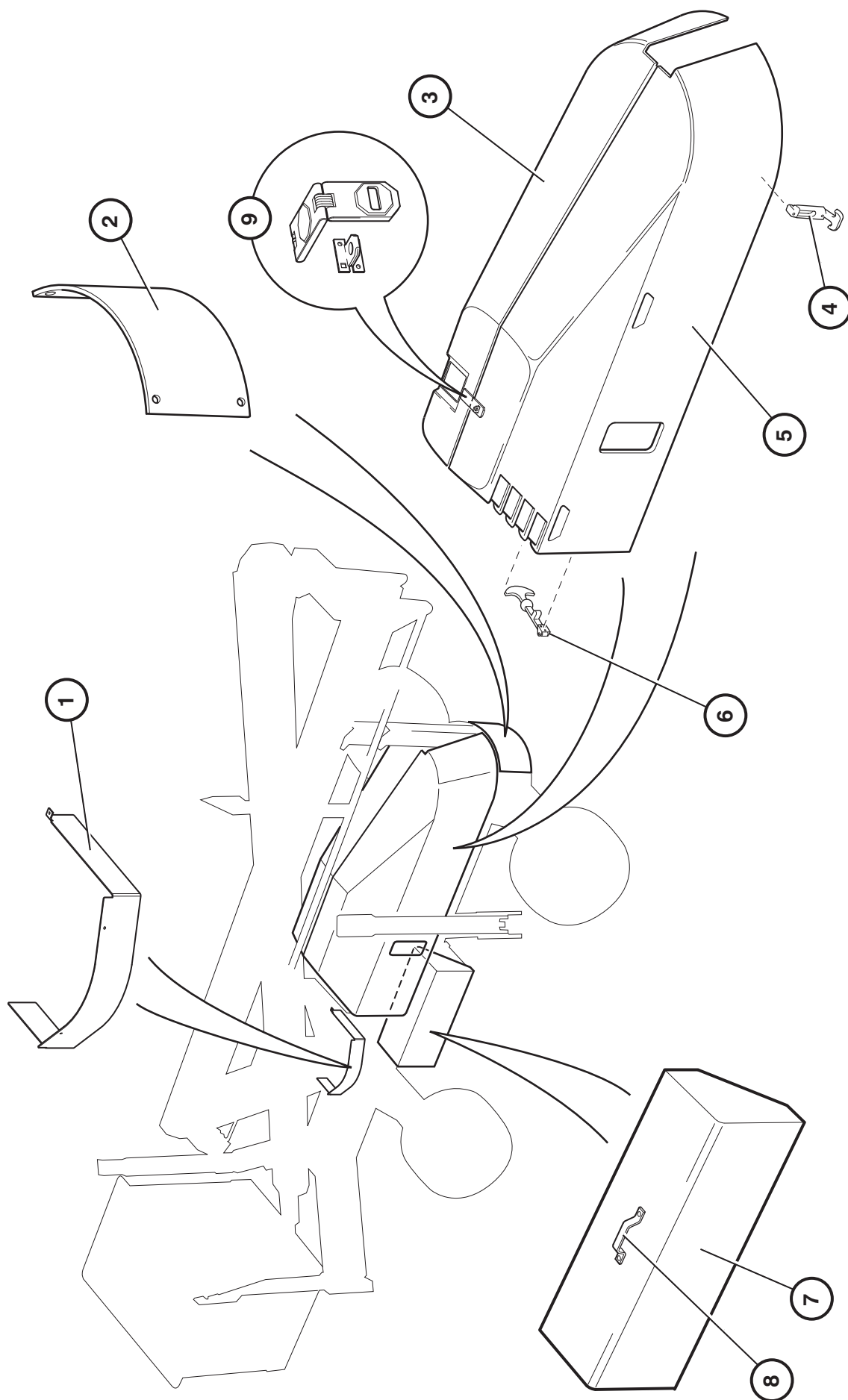
power tray

2.8 Covers and guards

Item	Description				Part Number
1	Gear wheel guard				P27218
2	Cover plate				P12569
3	Canopy LH				P12262
4	Rubber catch				P14454
5	Canopy RH				P28435
6	Rubber catch				P11312
7	Battery cover				P10822
8	Handle				P10241
9	Hasp - Lock (USA/Canada only)				P20836

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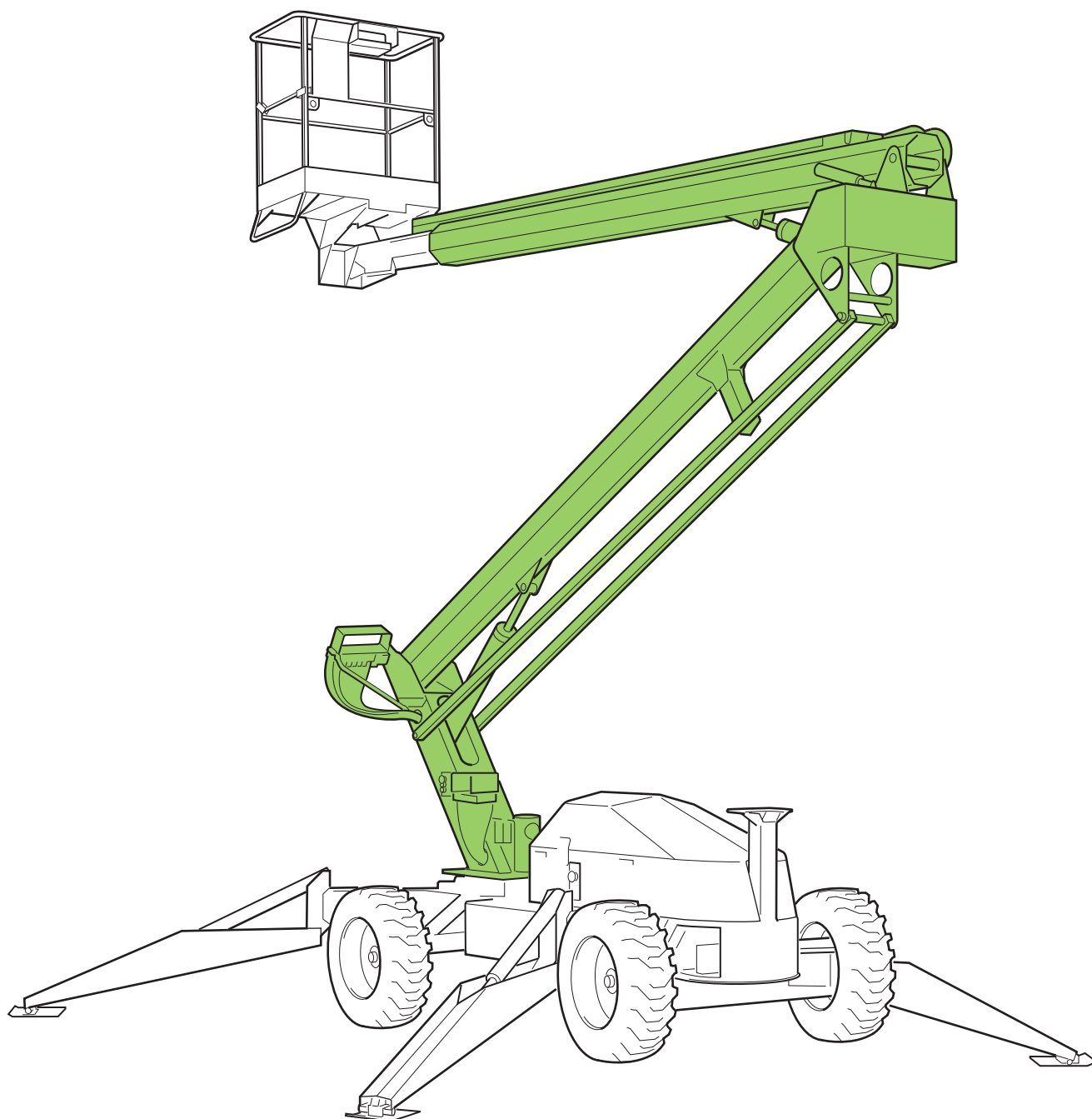
SD170 (SD50)

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Manual de piezas ilustrado



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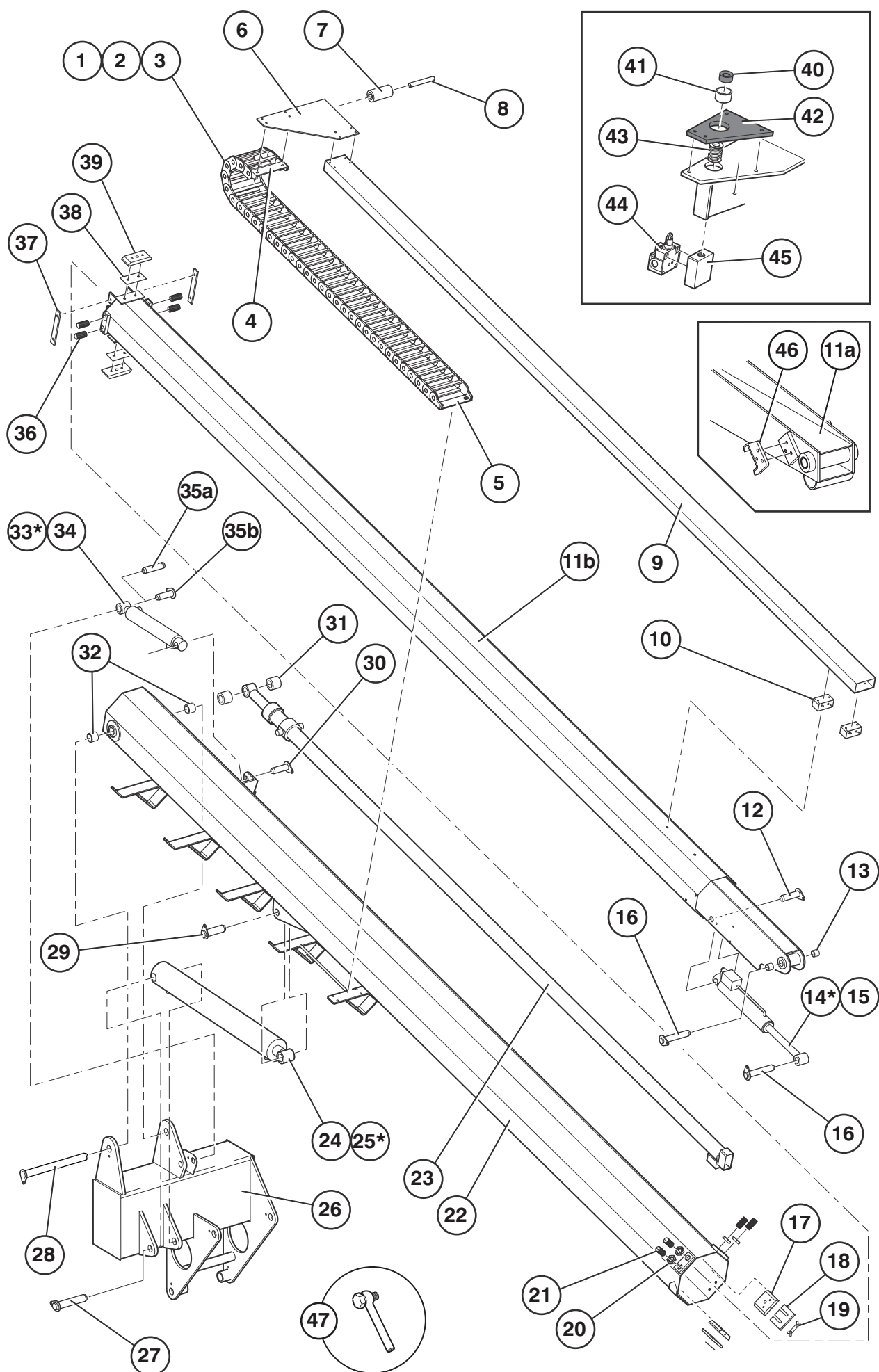
boom assemblies

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3.1 Upper boom assembly

Item	Description				Part Numb
1	Tracking				P15409
2	Tracking link				P15814
3	Tracking bridge				P15813
4	Tracking end piece - Upper bracket				P15816
5	Tracking end piece - Lower bracket				P15815
6	Tracking bracket (Trunking)				P10845
7	Roller				P10680
8	Roller pin				P10682
9	Trunking				P10686
10	Trunking bracket (Boom 4)				P10908
11	Boom 4 a) Non-swivel cage b) Swivel cage				P21457 P21344
12	Pivot pin - 89mm				P18483
13	Bush 2525DU				P10034
14	Levelling cylinder <i>See "Levelling cylinder" on page 3-10.</i>				P22974
15 *	Seal kit for item 14				P11082
16	Pivot pin - 130mm				P16610
17	Wear pad				P10519
18	Spacer				P10756
19	Tab washer				P24572
20	Half Nut (M24)				P16312
21	Stud				P16243
22	Boom 3 * Non-swivel cage Swivel cage				P21455 P21343
23	Tele-cylinder <i>See "Telescope cylinder" on page 3-12.</i>				P10662

* Not illustrated



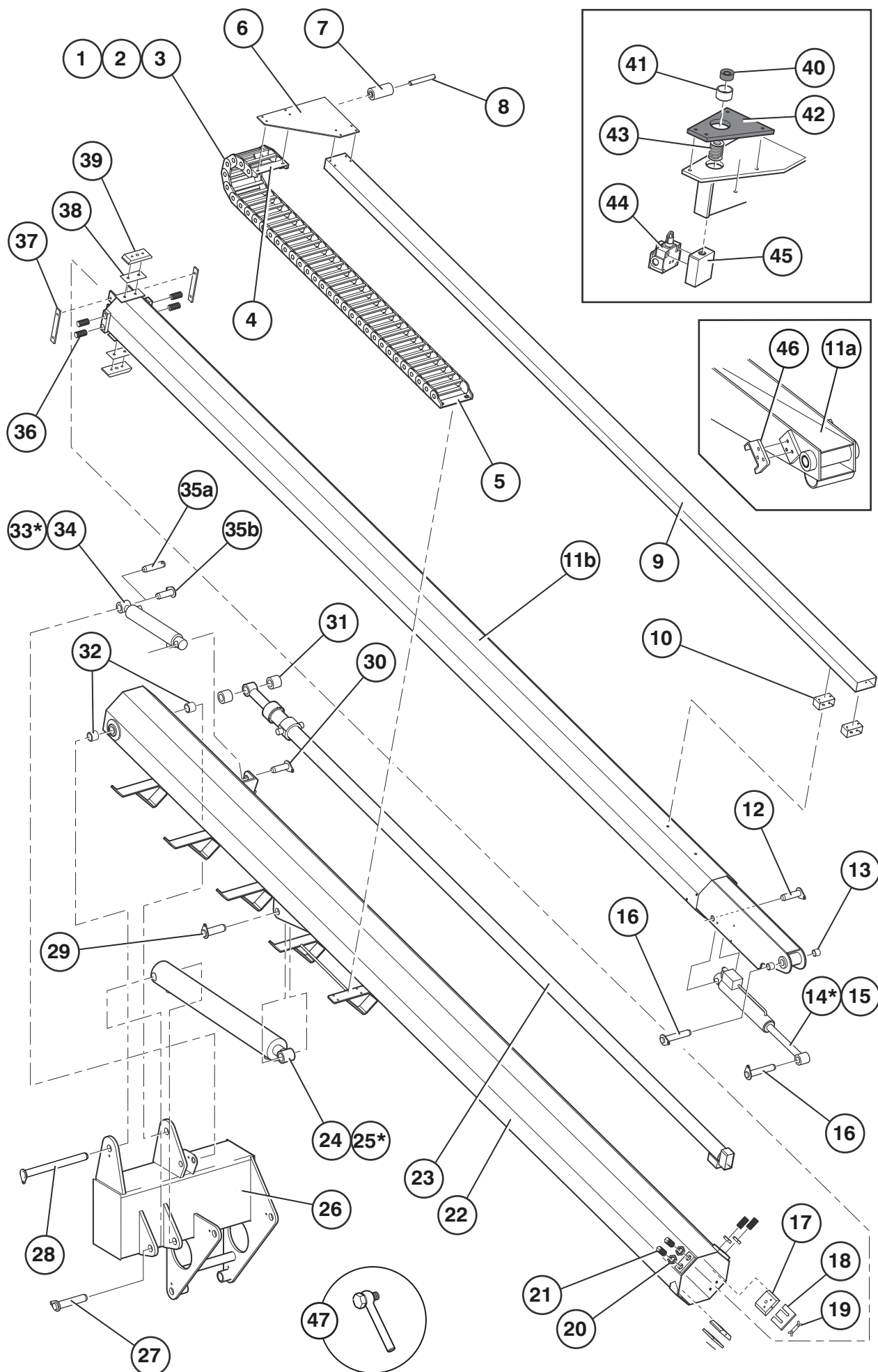
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boom assemblies

3.1 continued

Item	Description				Part Number
24	Lift cylinder Non-swivel cage Swivel cage <i>See "Lift cylinder" on page 3-8.</i>				P10894 P17711
25 *	Seal kit for item 24				P12870
26	Knuckle * Non-swivel cage Swivel cage				P21448 P21458
27	Pivot pin - 158mm				P10873
28	Pivot pin - 325mm				P10496
29	Pivot pin - 97mm				P10498
30	Pivot pin Non-swivel (102mm) Swivel (91 mm)				P11269 P12048
31	Spacer				P11110
32	Bush 3040DU				P10508
33	Levelling cylinder <i>See "Levelling cylinder" on page 3-10.</i>				P11764
34 *	Seal kit for item 33				P11082
35	Pivot pin a) Non-swivel (85mm) b) Swivel (78mm)				P19550 P12718
36	Stud				P11436
37	Keeper plate				P10711
38	Shim				P13296
39	Wear pad				P10735
40	Rubber latch				P18554
41	Insulator				P11607
42	Rubber boom rest 2mm 4mm				P26373 P26374
43	Spring				P13372
44	Microswitch				P24994
45	Block				P28752
46	Bracket - Cage stop				P23069
47	Swing bolt				P15966

* Not illustrated



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boom assemblies

3-5

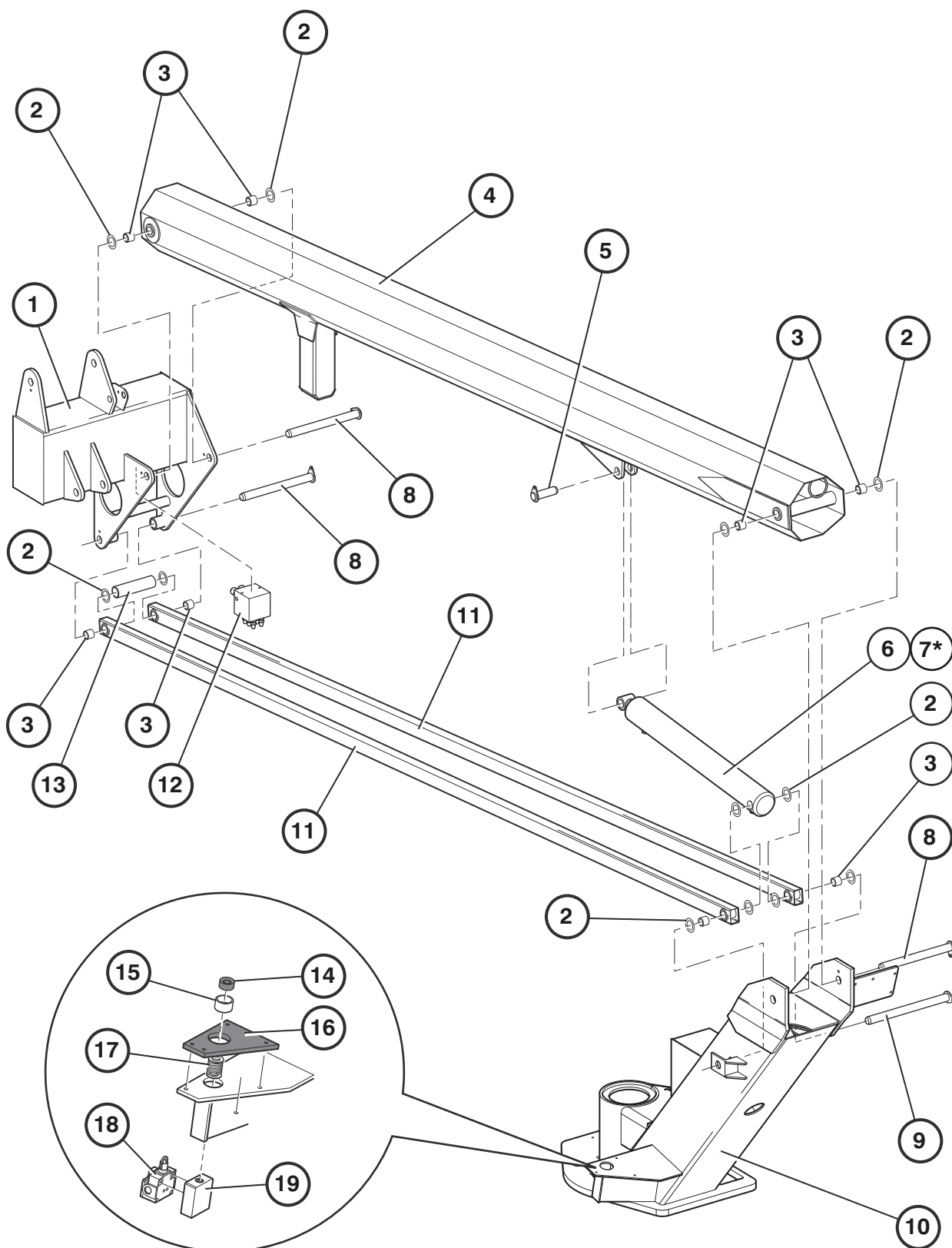
3.2 Lower boom assembly

Item	Description				Part Number
1	Knuckle * Non-swivel cage Swivel cage				P21448 P21458
2	Washer				P10511
3	Bush 3040DU				P10508
4	Boom 2				P27045
5	Pivot pin - 97 mm				P10498
6	Lift cylinder See "Lift cylinder" on page 3-8.				P10894
7 *	Seal kit for item 6				P12870
8	Pivot pin - 325mm				P10496
9	Pivot pin - 376mm				P10497
10	Boom 1				P26957
11	Levelling rod				P21451
12	Levelling valve (Swivel cage ONLY) See "Levelling valve" on page 3-14.				P16100
13	Spacer				P16750
14	Rubber latch				P18554
15	Insulator				P11607
16	Rubber boom rest 2mm 4mm				P26373 P26374
17	Spring				P13372
18	Microswitch				P24994
19	Block				P28752

* Not illustrated

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boom assemblies



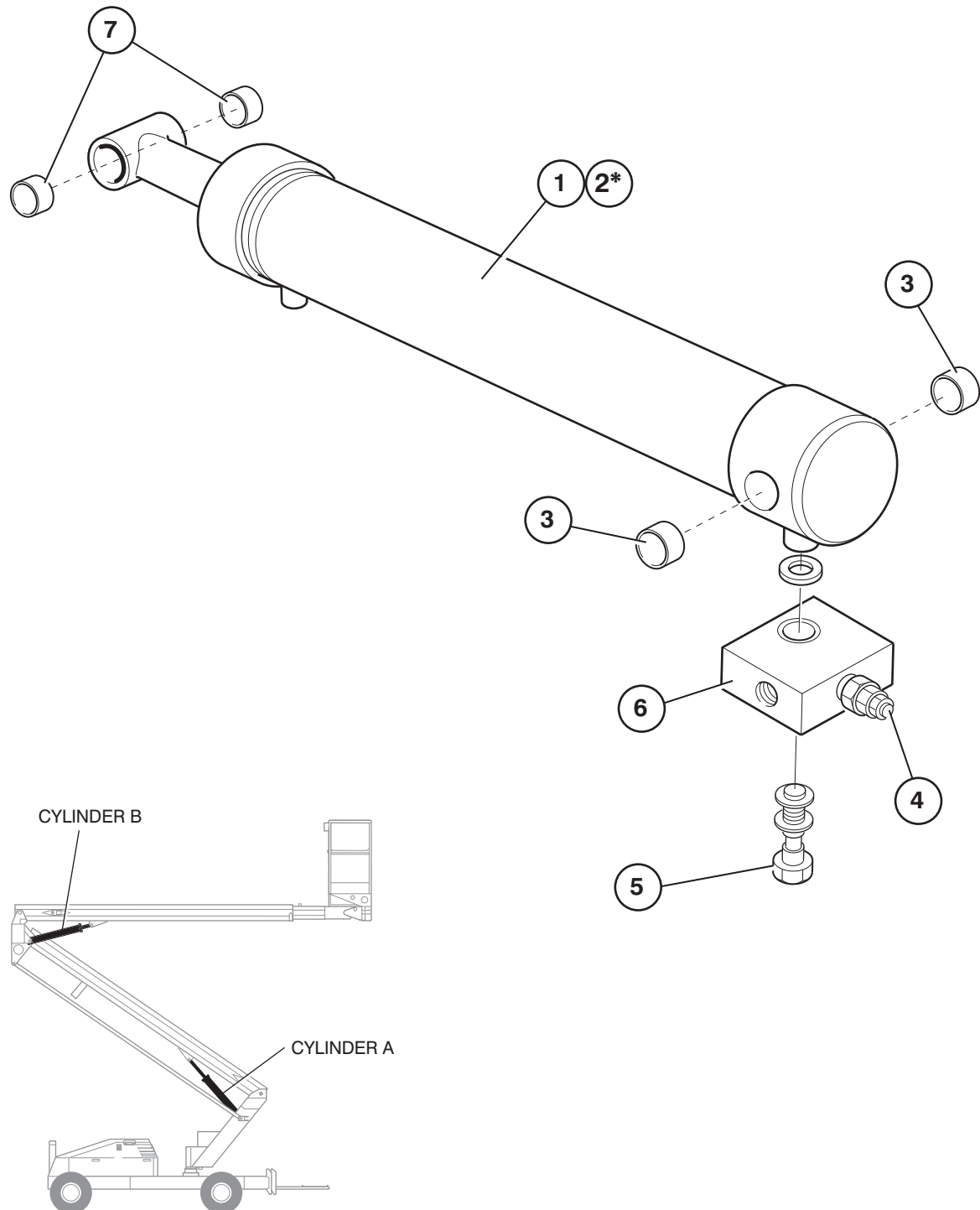
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boom assemblies

3.3 Lift cylinder

Item	Description				Part Number
1	Cylinder A				P10894
	Cylinder B				P10894
	Non-swivel cage				P17711
	Swivel cage				
2 *	Seal kit for item 1				P12870
3	Bush DU3030				P10880
4	Load valve ONLY				P11956
5	Banjo bolt				P12456
6	Check valve assy				P21052
7	Bush DU3020				P10509

* Not illustrated



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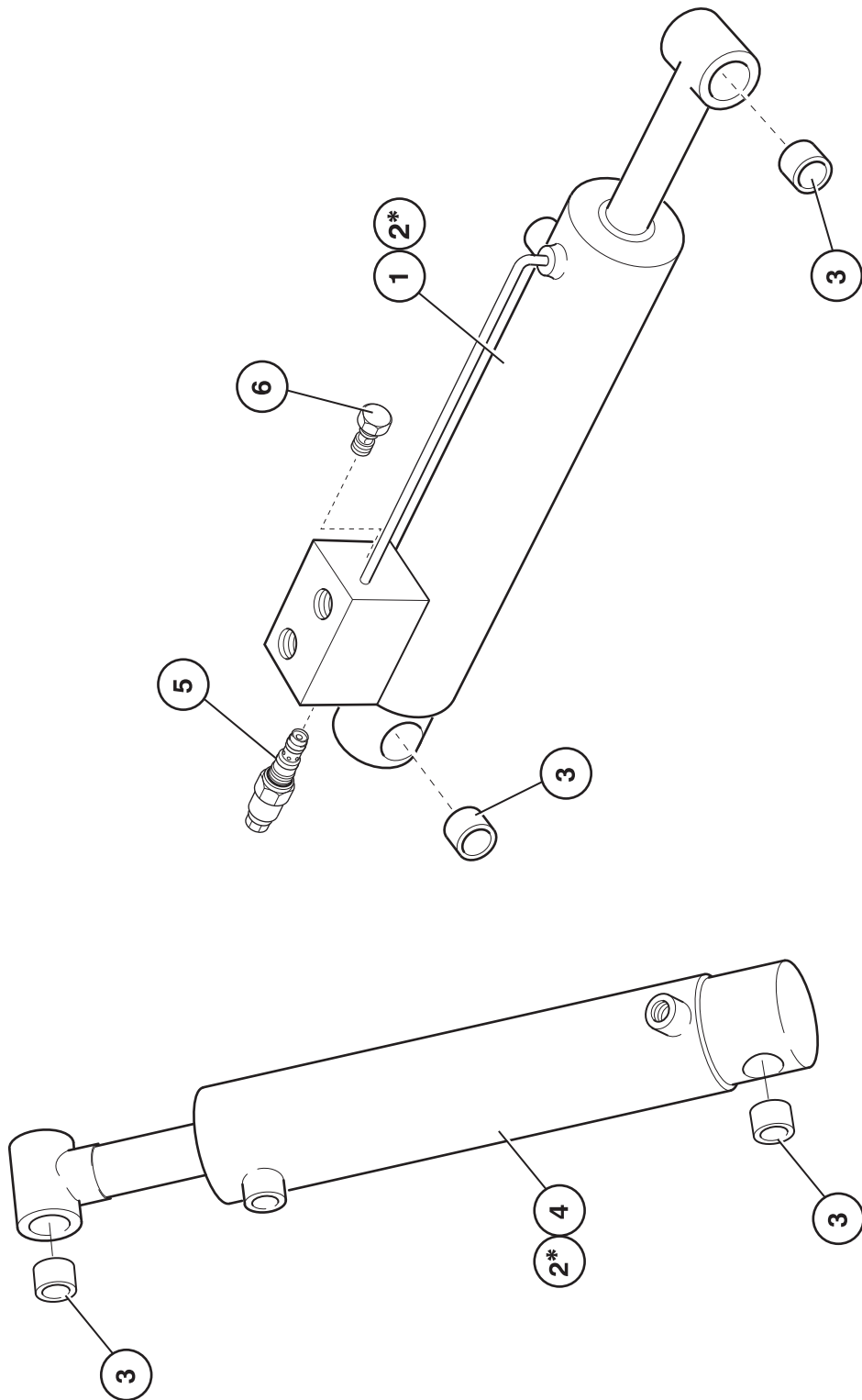
boom assemblies

3-9

3.4 Levelling cylinder

Item	Description				Part Number
1	Cylinder (slave)				P22974
2 *	Seal kit for items 1 and 4				P11082
3	Bush DU2520				P10032
4	Cylinder				P11764
5	Load valve				P11956
6	Check valve cartridge				P17317

* Not illustrated



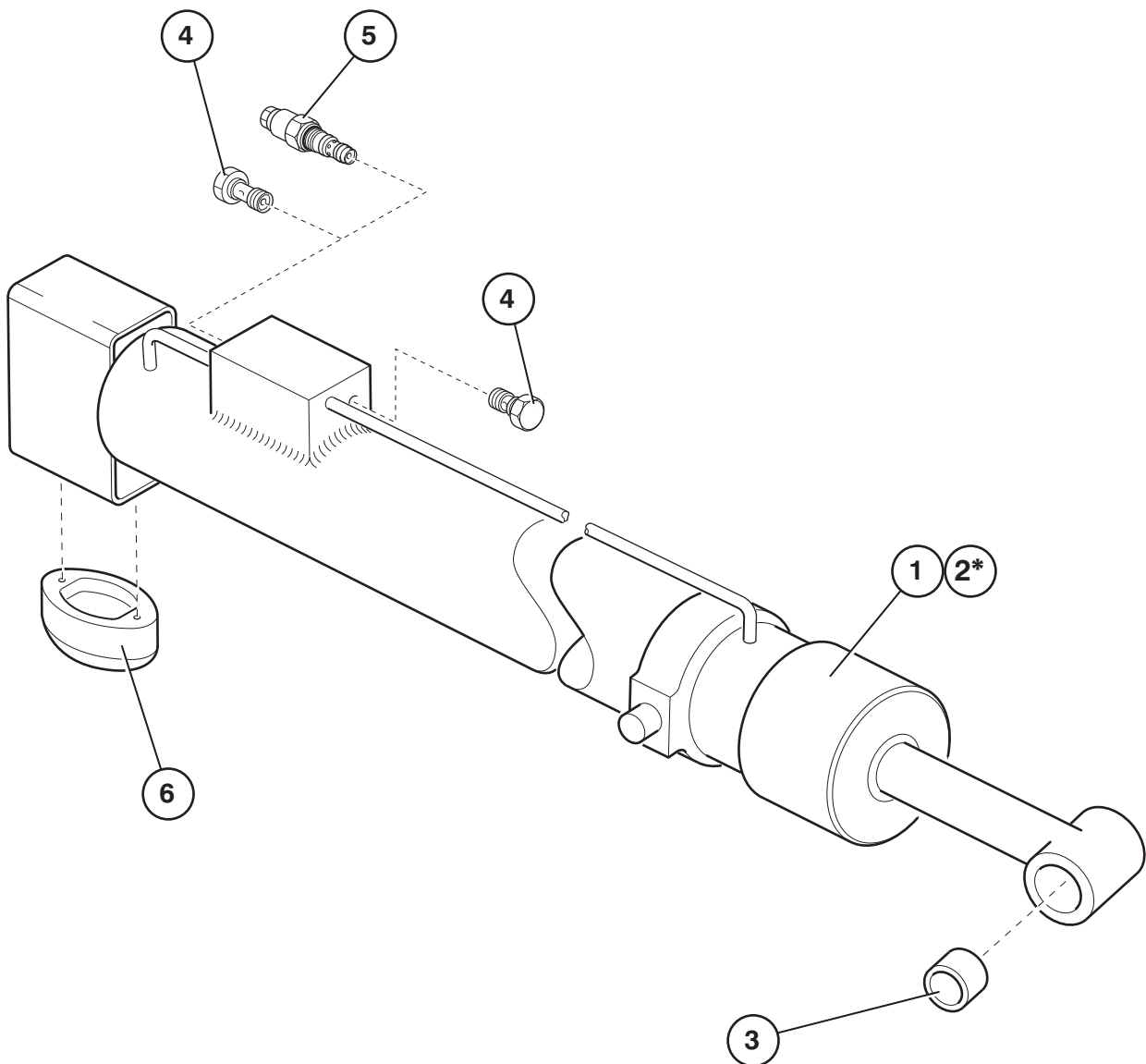
french
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boom assemblies

3.5 Telescope cylinder

Item	Description				Part Number
1	Cylinder				P10662
2 *	Seal kit for item 1				P10928
3	Bush DU2520				P10032
4	Check valve cartridge				P17317
5	Load valve (Fitted to machines after Jan 2004)				P11956
6	Rubber buffer				P16982

* Not illustrated



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boom assemblies

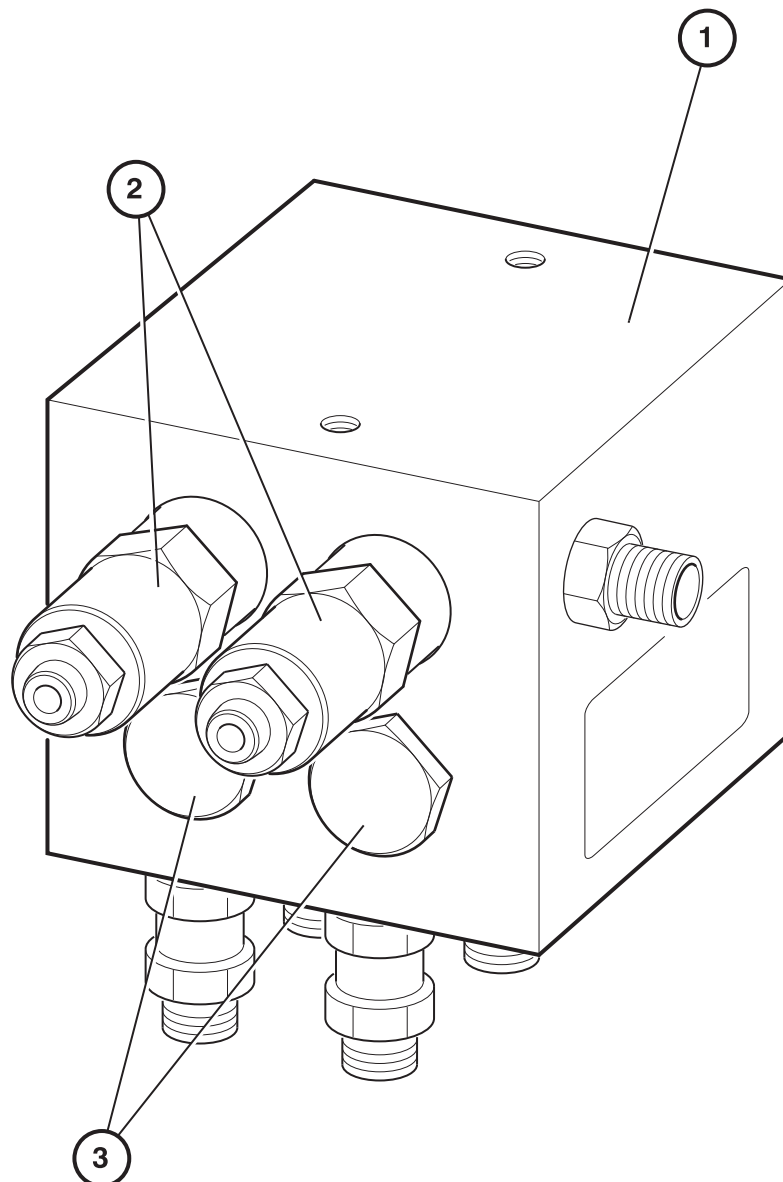
3-13

3.6 Levelling valve

Item	Description				Part Number
1	Levelling valve assembly				P16100
2	Relief valve (250 BAR)				P18253
3	Check valve				P17317

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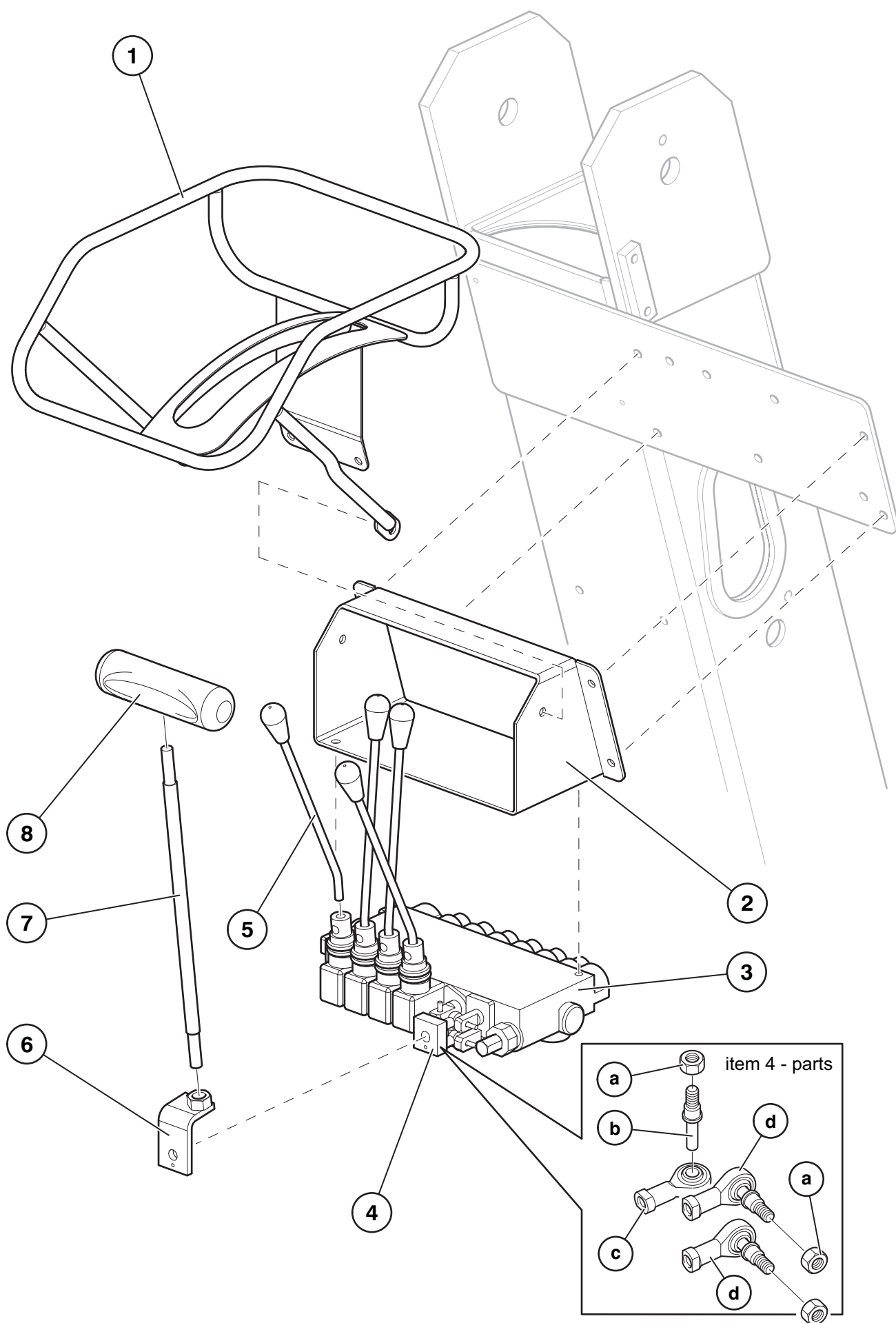
3-15

3.7 Drive/Jacks control station

Item	Description				Part Number
1	Guard				P22517
2	Mounting bracket				P22518
3	Control valve				P22453
4	Manipulator assy. (complete) a) Nut b) Vertical pin c) Universal joint d) UJ joint & pin				P29223 P12748 P12749 P12750 P19917
5	Lever (200mm)				P70336
6	Bracket				P22649
7	Drive/Steer Rod				P22650
8	Handle				P22637

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boom assemblies

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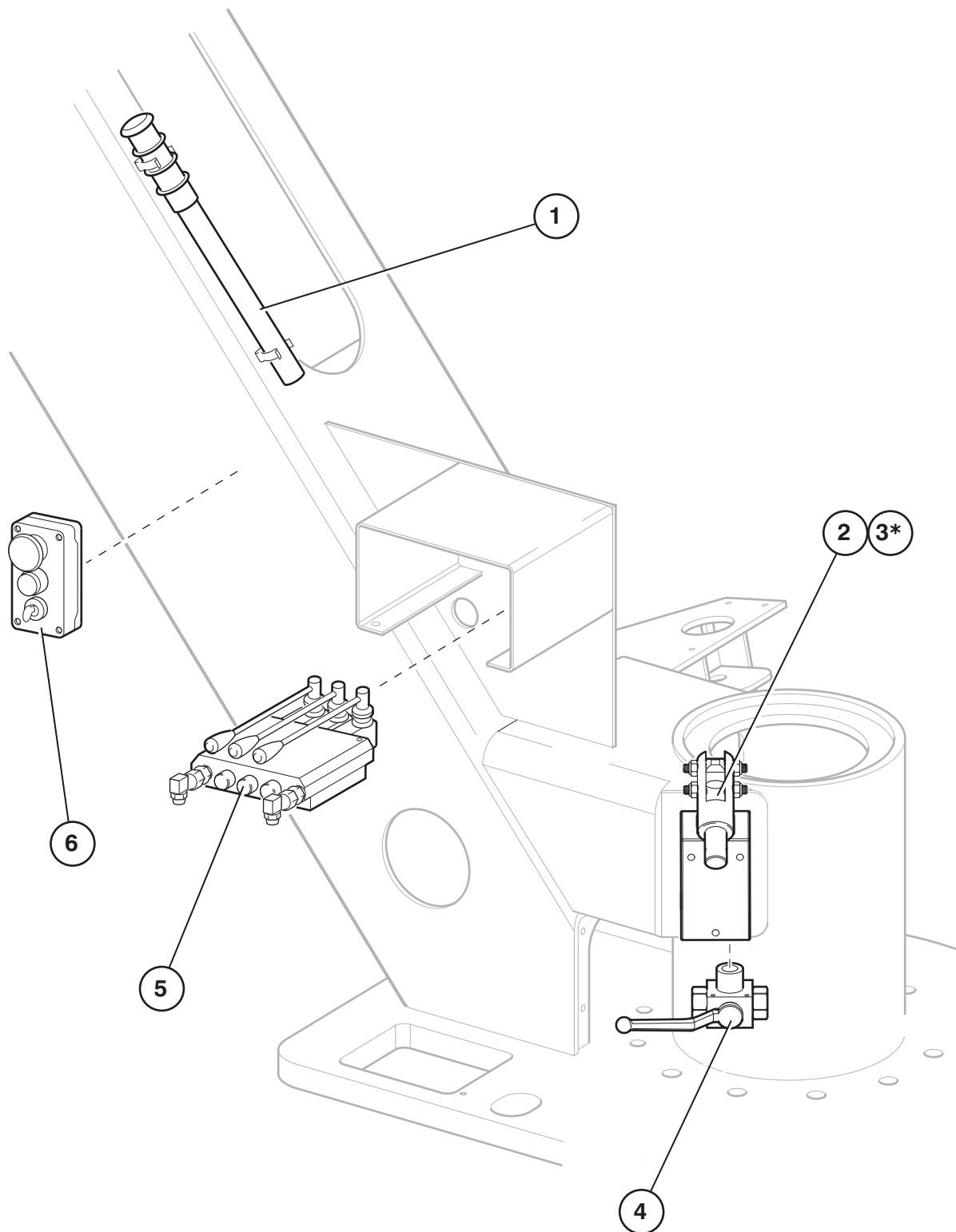
3.8 Ground controls

Item	Description				Part Number
1	Handle - Hand pump				P10624
2	Manual hand pump				P22570
3 *	Seal kit for item 2				P22605
4	Diverter valve Lever ONLY				P10702 P14397
5	Control valve - See "Control valve assembly (3 spool)" on page 3-24. or "Control valve assembly (4 spool)" on page 3-26				P15514 P15518
6	Button box - See "Button box assembly" on page 3-20.				n/a

* Not illustrated

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3.9 Button box assembly

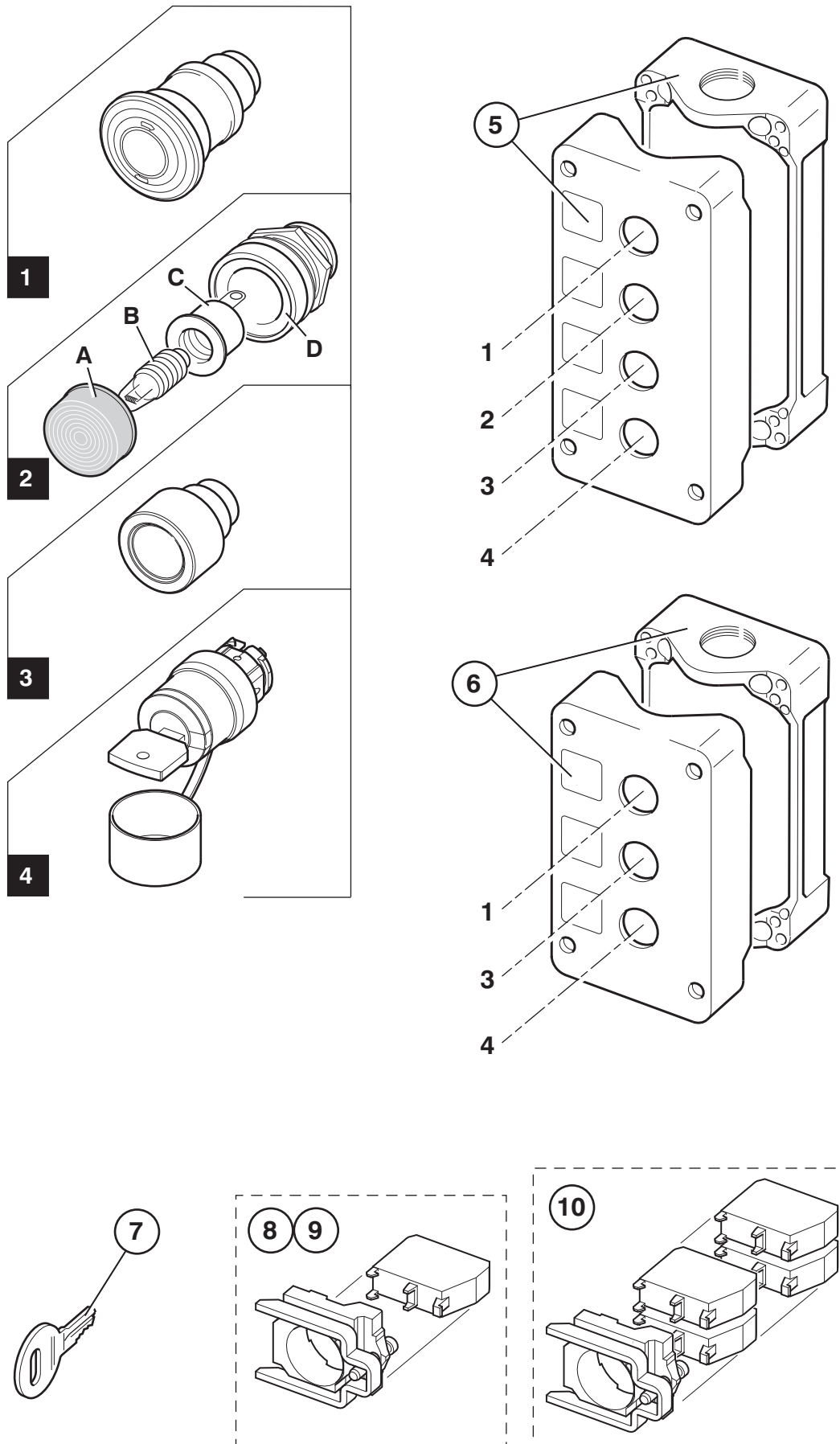
Item Description

Part Number

1	E-Stop button USA Only				P24317 P28564
2	(A) Pilot light lens (B) Bulb (C) Lamp holder (D) Lamp housing				P11295 P11791 P11790 P14276
3	Green button (includes boot) Rubber boot ONLY				P24333 P24332
4	Key switch, 2 position key removable in upper position Rubber boot				P24337 P24321
5	Button box - 4 hole				P22416
6	Button box - 3 hole				P22415
7	Key				P70187
8	Base, Switch Contact - NC (Used with item 1)				P24322 P24324
9	Base, Switch Contact - NO (Used with item 3)				P24322 P24323
10	Base, Switch Contact - NO Contact - NC (Used with item 4)				P24322 P24323 P24324

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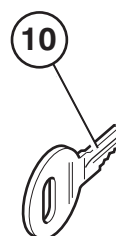
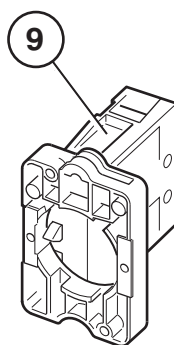
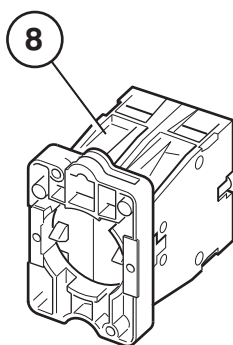
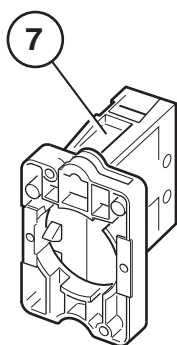
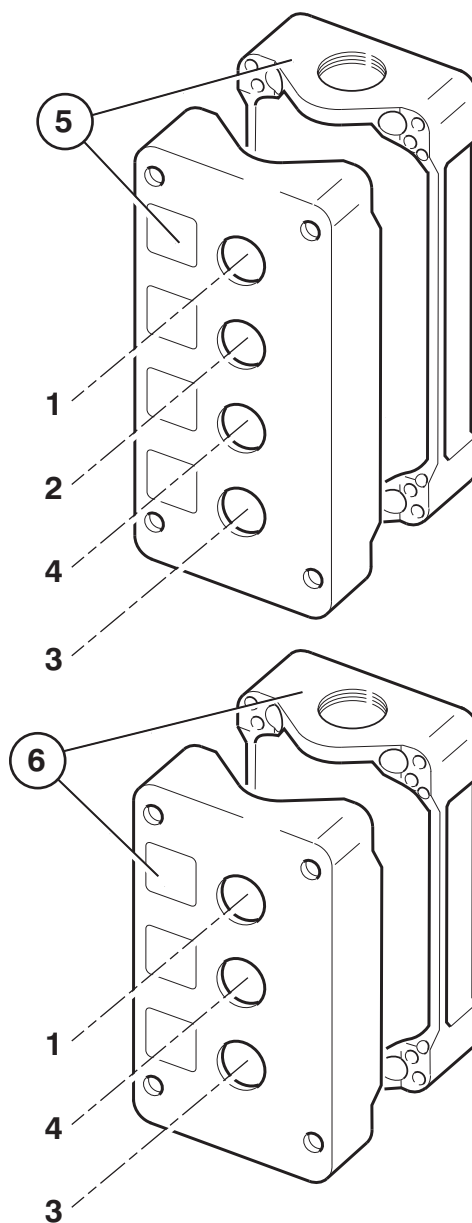
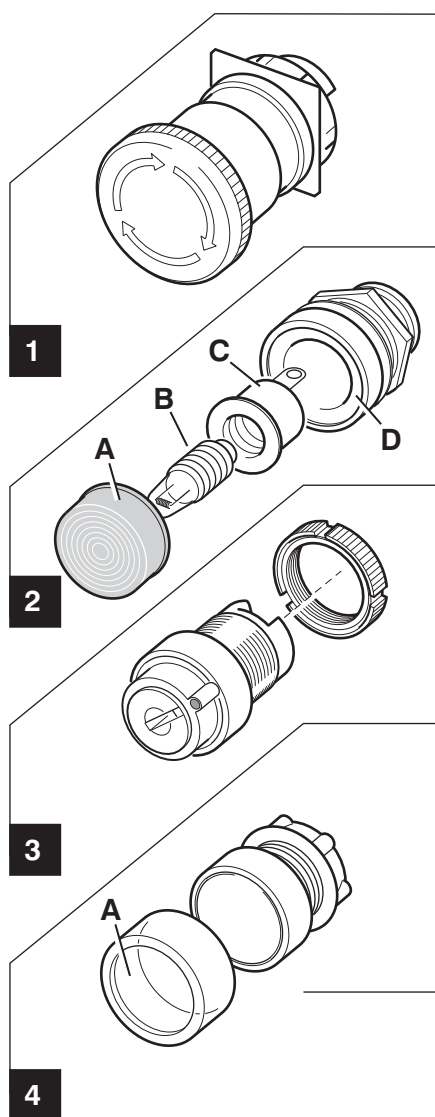
boom assemblies

3.10 Button box assembly (USA - SD50)

Item	Description				Part Number
1	E-Stop button USA Only				P21541
2	(A) Pilot light lens (B) Bulb (C) Lamp holder (D) Lamp housing				P11295 P11791 P11790 P14276
3	Key switch - 455 key 2 position				P10076
4	Button - Green Blue Black (A) Rubber cover Standard				P10075 P11117 P10723 P22414
5	Button box - 4 hole 50mm deep 80mm deep				P22417 P22416
6	Button box - 3 hole 50mm deep 80mm deep				P22413 P22415
7	Contact - NC (Used with Item 1)				P11839
8	Contact - Double NO/ NC (Used with item 3)				P16718
9	Contact - Single NO (Used with item 4)				P11838
10	Key				P70187

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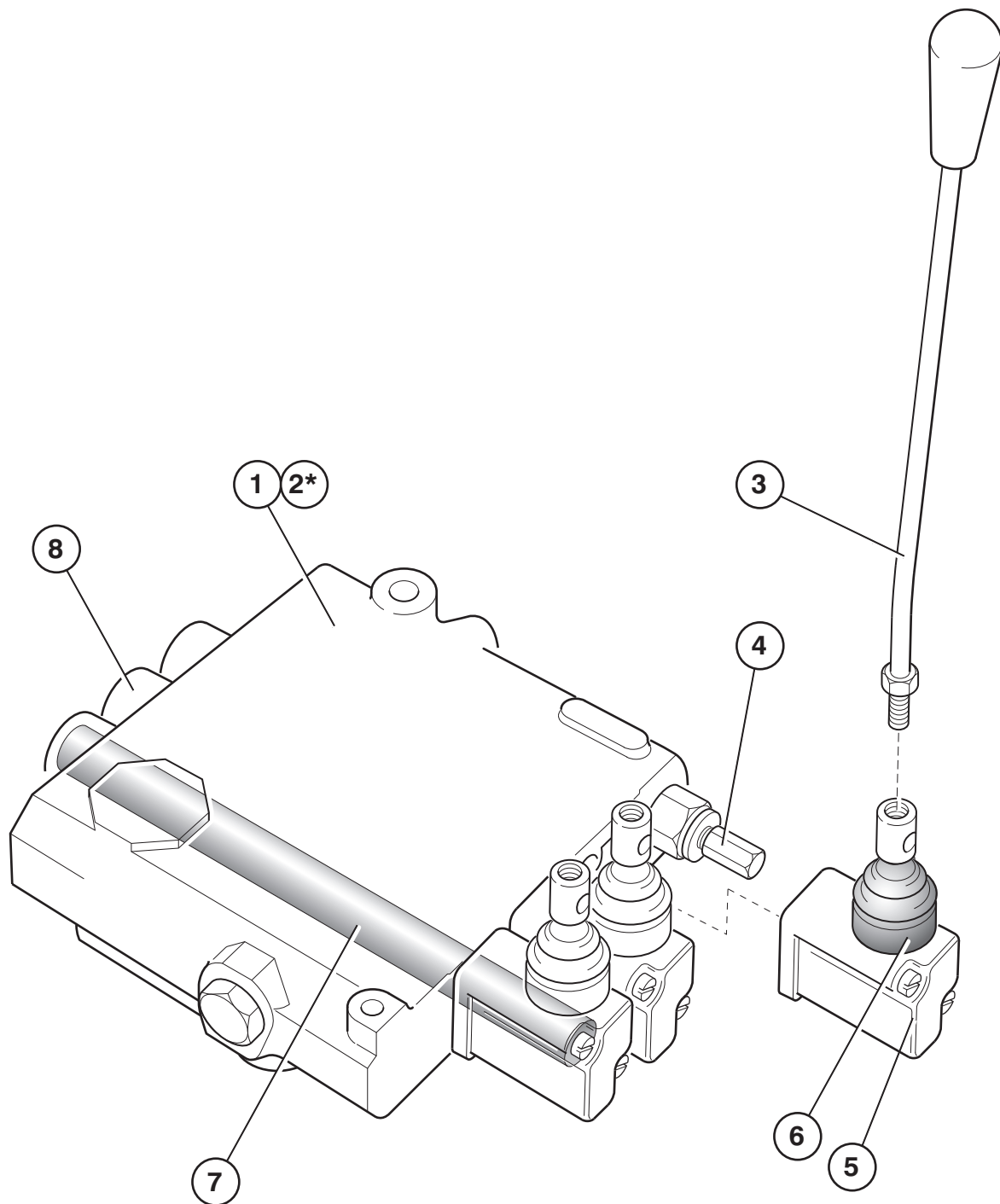
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boom assemblies

3.11 Control valve assembly (3 spool)

Item	Description				Part Number
1	Control valve				P15514
2 *	Seal kit for item 1				P70337
3	Lever				P70336
4	Pressure relief valve				P70335
5	Lever cap (complete)				P70338
6	Rubber boot				P12225
7	Spool AS				P15510
8	Spool return spring assembly				P16234

* Not illustrated



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boom assemblies

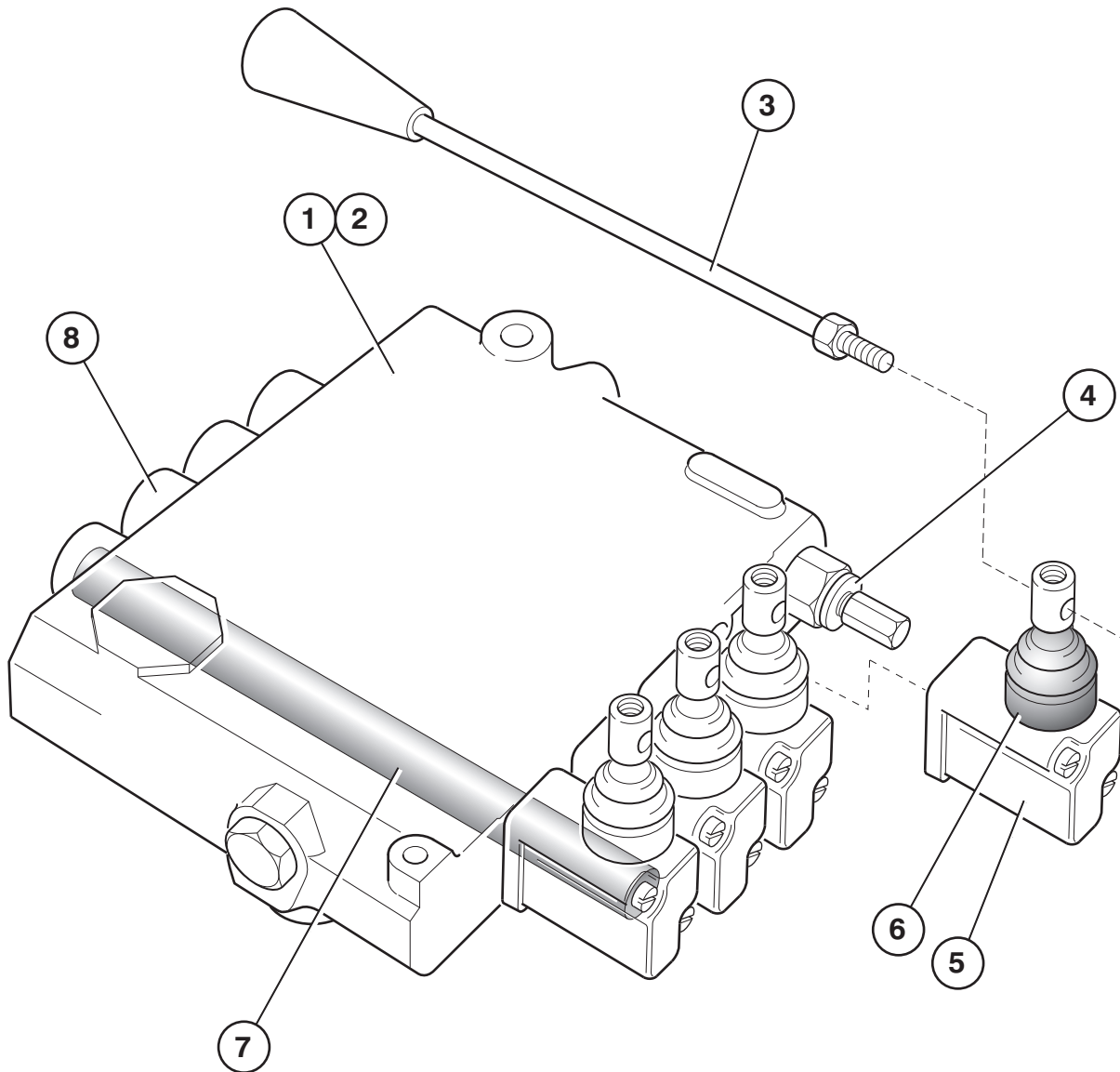
3.12 Control valve assembly (4 spool)

Item	Description				Part Number
1	Control valve				P15518
2 *	Seal kit for item 1				P70337
3	Lever				P70336
4	Pressure relief valve				P70335
5	Lever cap (complete)				P70338
6	Rubber boot				P12225
7	Spool AS				P15510
8	Spool return spring assembly				P16234

* Not illustrated

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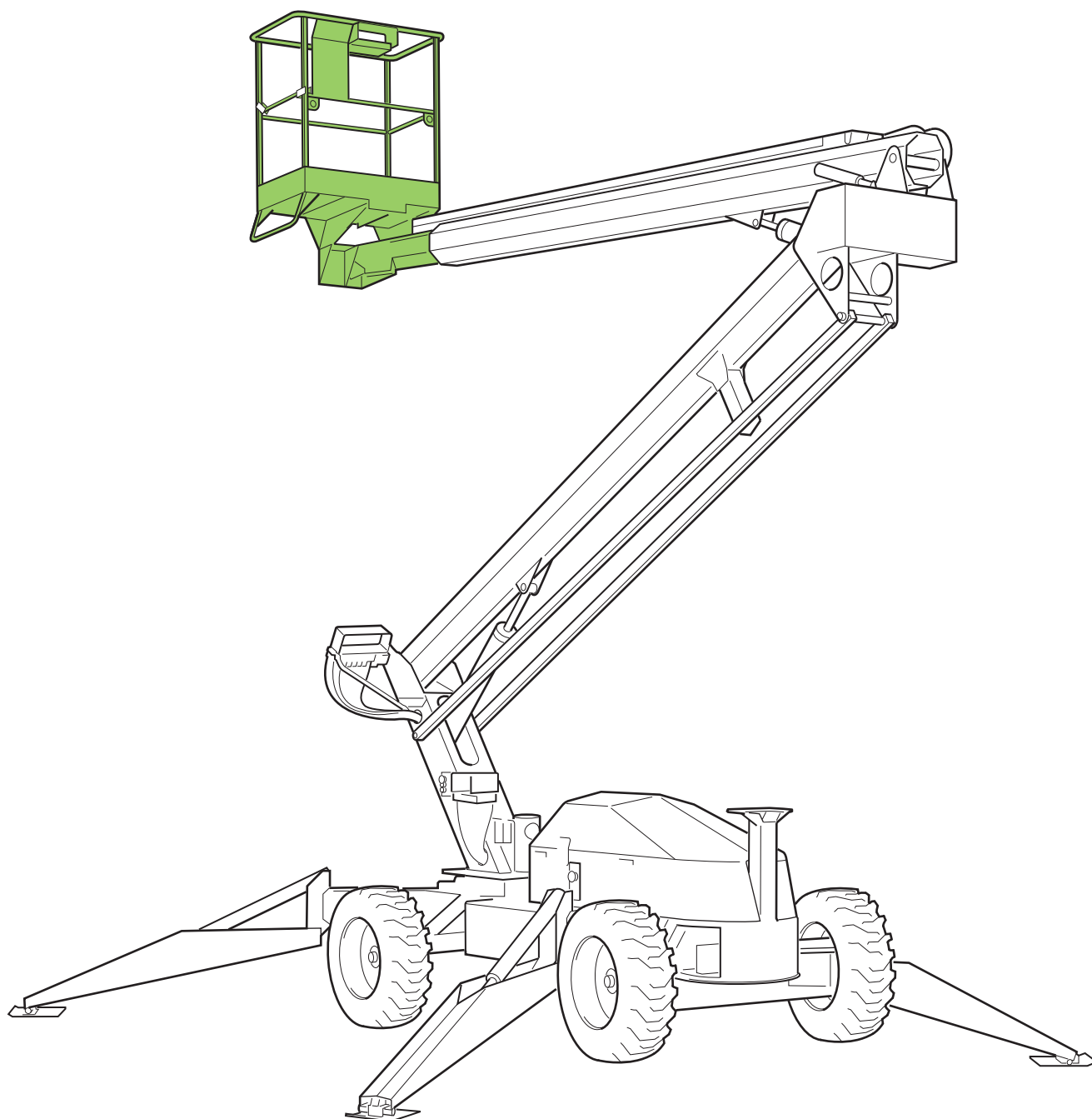
SD170 (SD50)

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Manuel illustré de pièces détachées

Illustrierte Stückliste

Manual de piezas ilustrado



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cage assemblies

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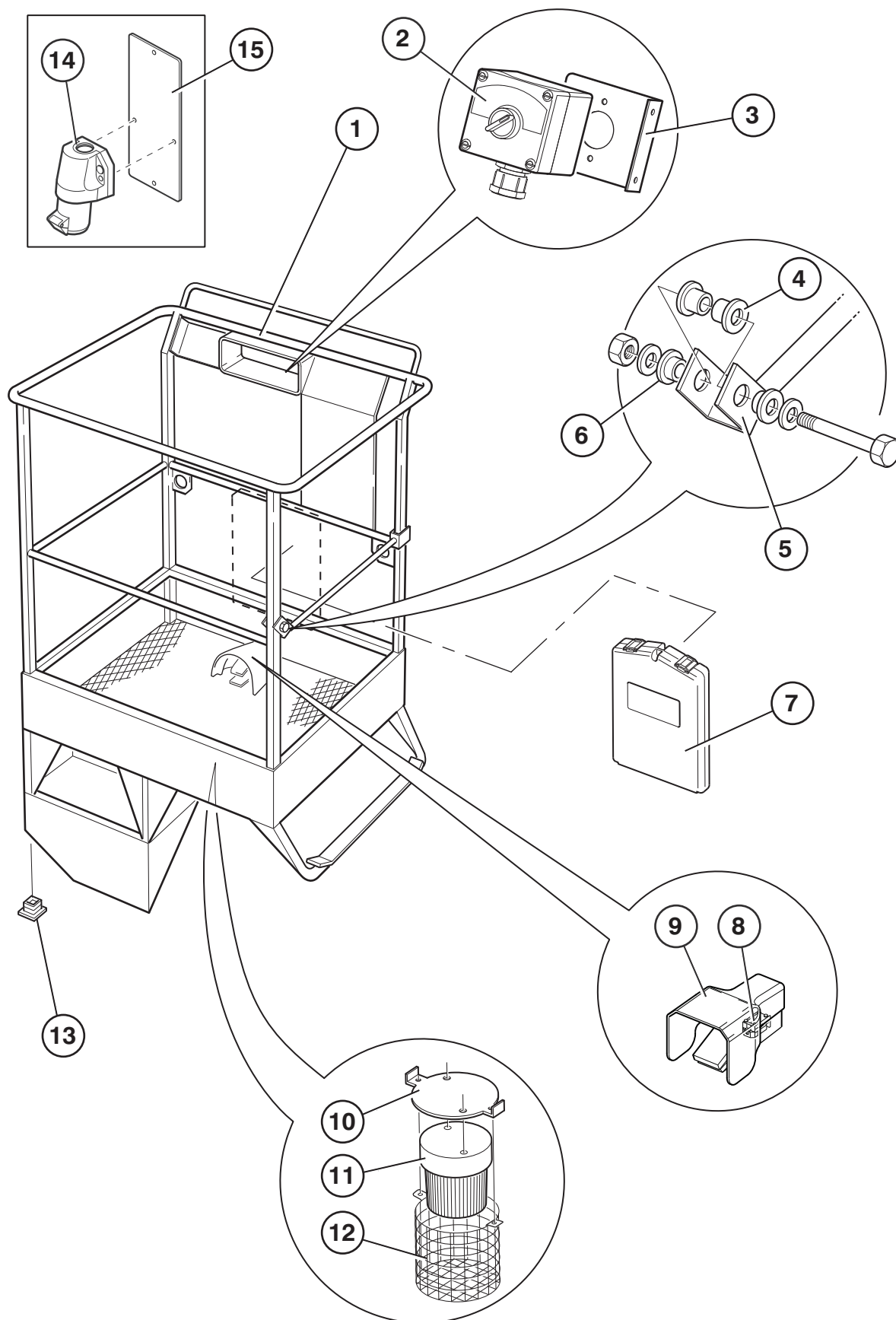
4.1 Swivel cage assembly - Part 1

Item	Description				Part Number
1	Cage Cage weigh Non cage weigh SD50 (USA)				P17050 P11974 P11974
2	Duty Select assembly Box - 1 hole Selector switch Rubber boot Contact NO NC				P28646 P28427 P24318 P24319 P24323 P24324
3	Mounting bracket				P29138
4	Bush				P10840
5	Cage gate				P11610
6	Bush				P18647
7	Box - Instruction manual				P11618
8	Electrical contact				P26751
9	Footswitch Cover ONLY				P26601 P26752
10	Bracket - Beacon				P11451
11	Beacon				P10274
12	Guard - Beacon				P10312
13	Cap				P10841
14	Socket 110v/16A				P25082
15	Mounting bracket				P25281

Note: Items 8 to 12 and 14 to 15 are OPTIONAL

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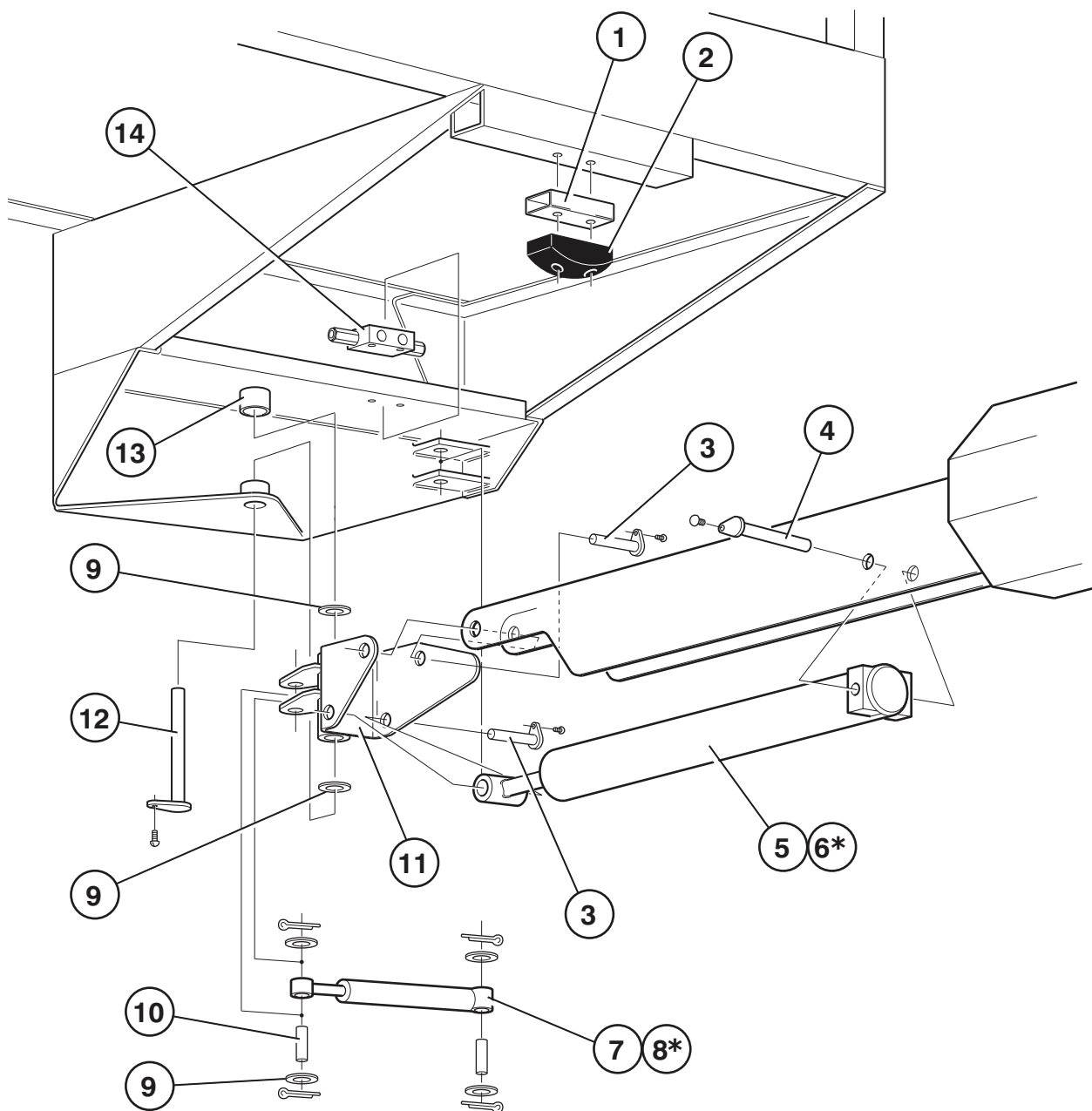
4-3

4.2 Swivel cage assembly - Part 2

Item	Description				Part Number
1	Spacer				P11134
2	Rubber boom rest				P10611
3	Pivot pin - 130mm				P16610
4	Pivot pin - 89mm				P18483
5	Levelling cylinder See "Levelling cylinder" on page 3-10.				P22974
6 *	Seal kit for item 5				P11082
7	Rotation cylinder * Bush DU1820				P12660 P11366
8 *	Seal kit for item 7				P13048
9	Plastic washer				P10035
10	Pivot pin - 95mm				P11979
11	Bracket				P11654
12	Pivot pin - 247mm				P12903
13	Bush				P10034
14	Check valve				P10665

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4-5

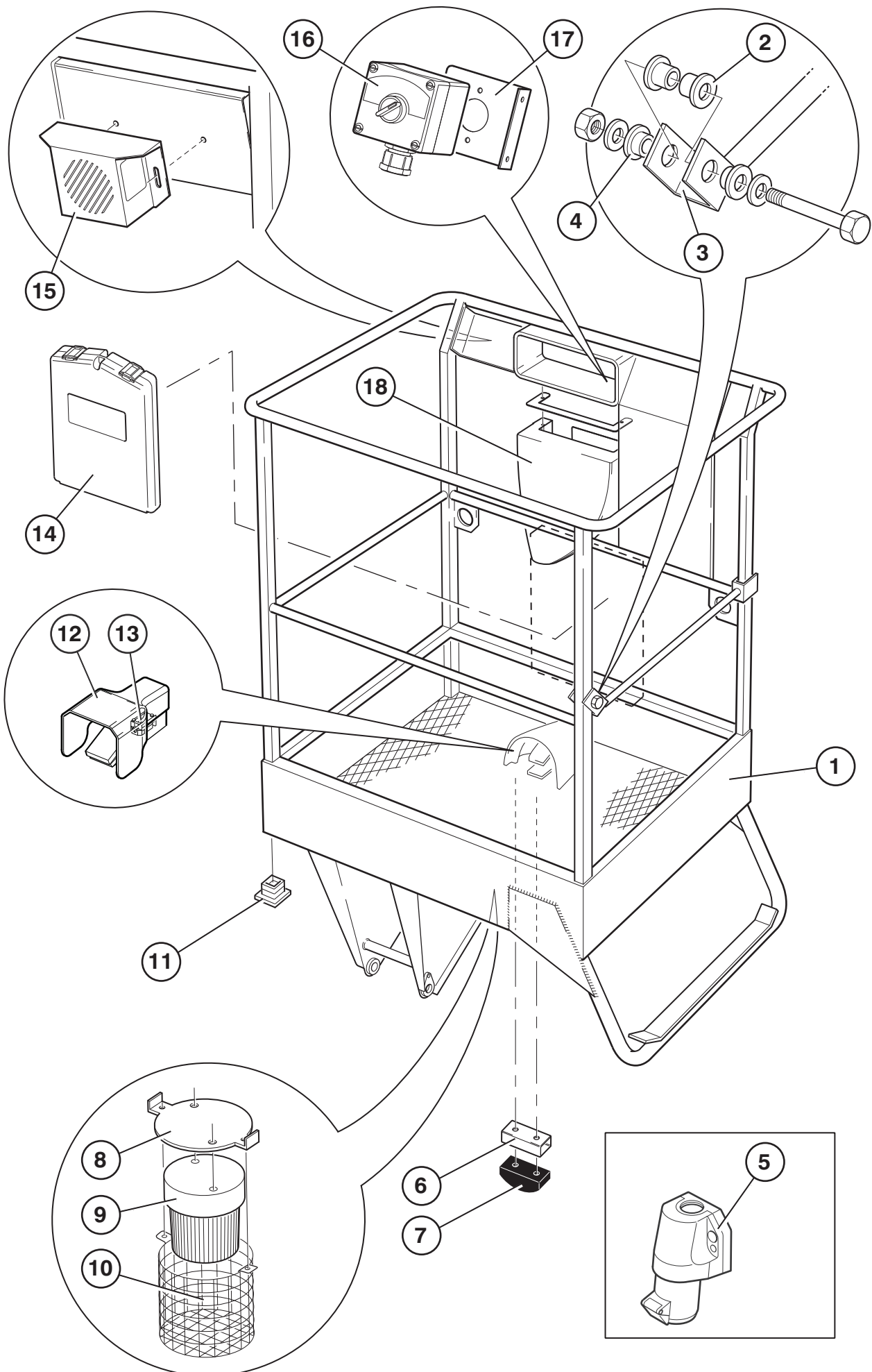
4.3 Non-swivel cage assembly

Item	Description	Part Number			
1	Cage SD170 - Cage weigh <i>Load Cell</i> Non cage weigh SD50 (USA)				P20495 P10843 P10843
2	Bush				P10840
3	Cage gate				P11610
4	Bush				P18647
5	Socket 110v/16A (OPTIONAL)				P25082
6	Spacer				P11134
7	Rubber boom rest				P10611
8	Bracket - Beacon (OPTIONAL)				P11451
9	Beacon (OPTIONAL)				P10274
10	Guard - Beacon (OPTIONAL)				P10312
11	Cap				P10841
12	Foot switch (OPTIONAL) Cover ONLY				P26601 P26752
13	Electrical contact				P26751
14	Instruction manual box (OPTIONAL)				P11618
15	Annunciator (OPTIONAL)				P13836
16	Duty Select assembly Box - 1 hole Selector switch Rubber boot Contact NO NC				P28646 P28427 P24318 P24319 P24323 P24324
17	Mounting bracket				P29138
18	Hose burst - Cover Bracket				P26706 P26705

Note: Items 8 to 10 and 12 to 15 are OPTIONAL

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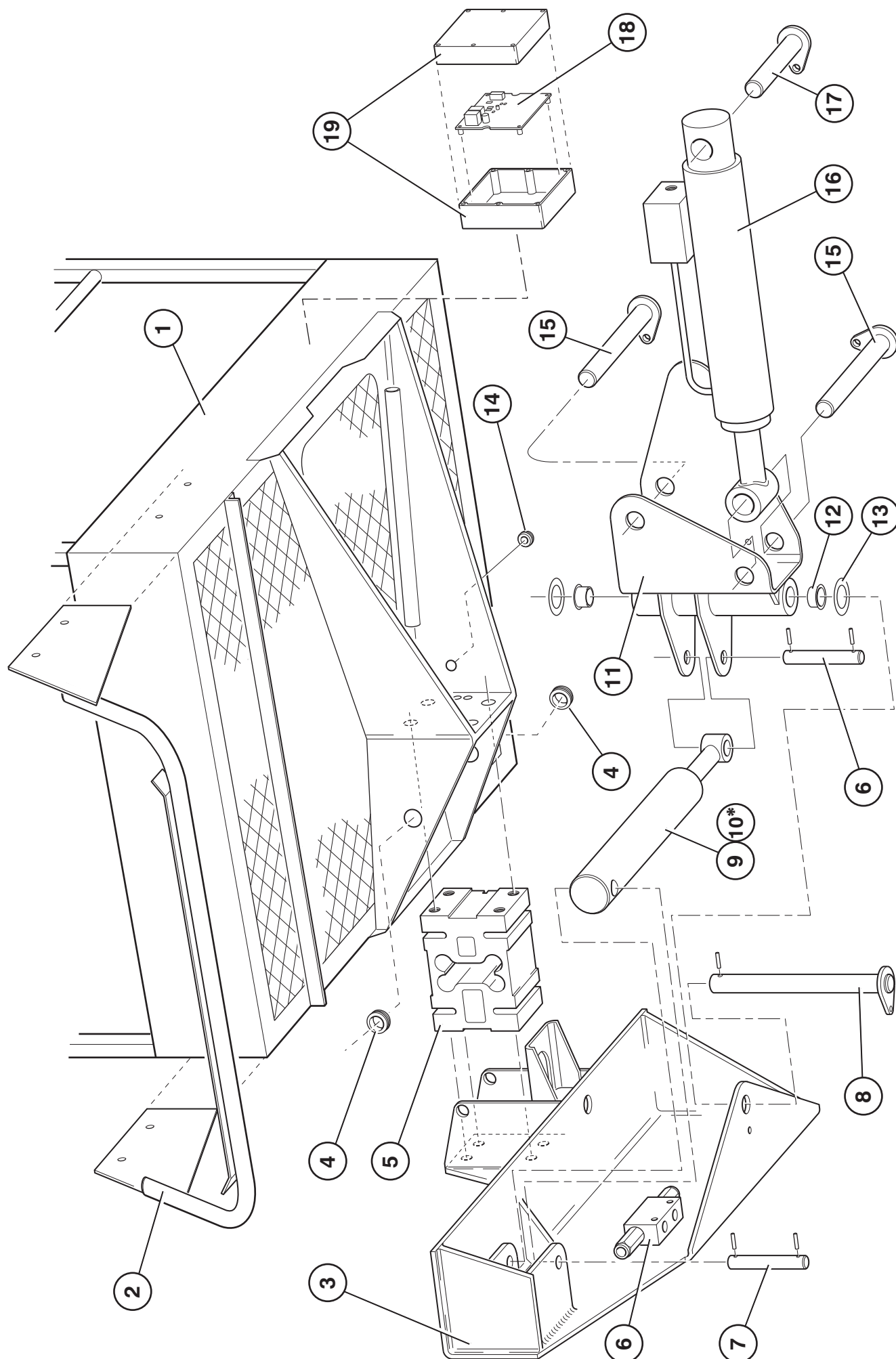
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cage assemblies

Figure 4.3 Non-swivel cage assembly

4.4 Swivel cage weigh assembly (Load Cell)

Item	Description				Part Number
1	Cage				P17050
2	Step				P17883
3	Lower chassis				P17257
4	Rubber grommet				P16983
5	Load cell 1.1m cable 2.4m cable				P18179 P29179
6	Check valve				P10665
7	Pivot pin - 95mm				P11979
8	Pivot pin - 235mm				P11978
9	Rotation cylinder				P12660
10 *	Seal kit for item 9				P13048
11	Swivel bracket				P11654
12	Bush				P12250
13	Washer				P10035
14	Grommet				P14456
15	Pivot pin - 130mm				P16610
16	Levelling cylinder <i>See "Levelling cylinder" on page 3-10.</i>				P22974
17	Pivot pin - 89mm				P18483
18	PCB - Cage Weigh				P25098
19	Box assembly (Includes item 18) Box ONLY Drain plug *				P25740 P25739 P23737



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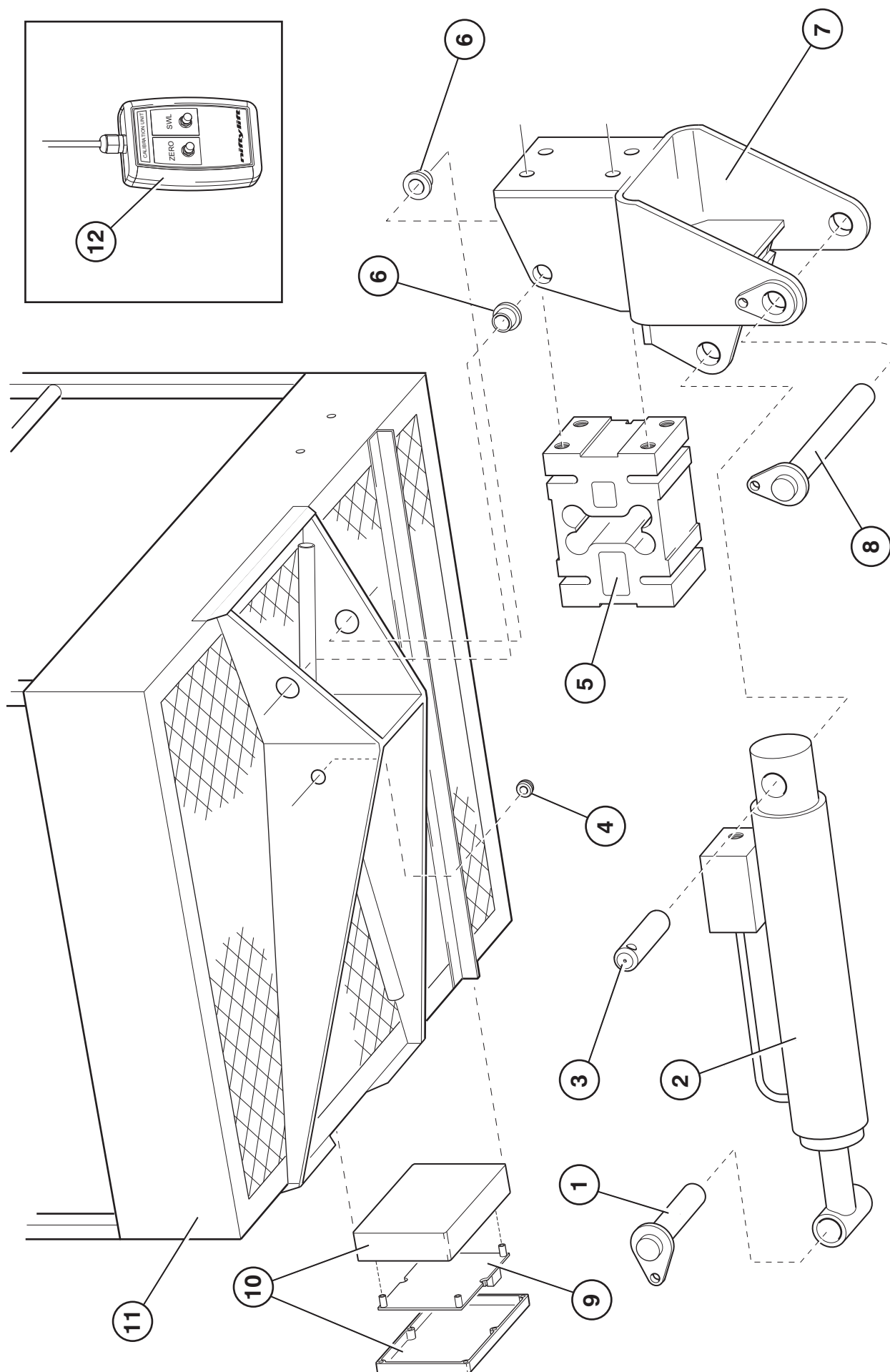
Figure 4.4 Swivel cage weigh (Load cell)

4.5 Non-swivel cage weigh assembly (Load Cell)

Item	Description				Part Number
1	Pin - 124mm				P12905
2	Levelling cylinder See "Levelling cylinder" on page 3-10.				P22974
3	Pin - 110mm				P13157
4	Grommet				P14456
5	Load cell 1.1m cable 2.4m cable				P18179 P29179
6	Rubber grommet				P16983
7	Lower chassis				P16866
8	Pin - 192mm				P10210
9	PCB - Cage Weigh				P25098
10	Box assembly (Includes item 9) Box ONLY Drain plug *				P25740 P25739 P23737
11	Cage				P20495
12	Calibration unit				T00237

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Figure 4.5 Non-swivel cage weigh (Load cell)

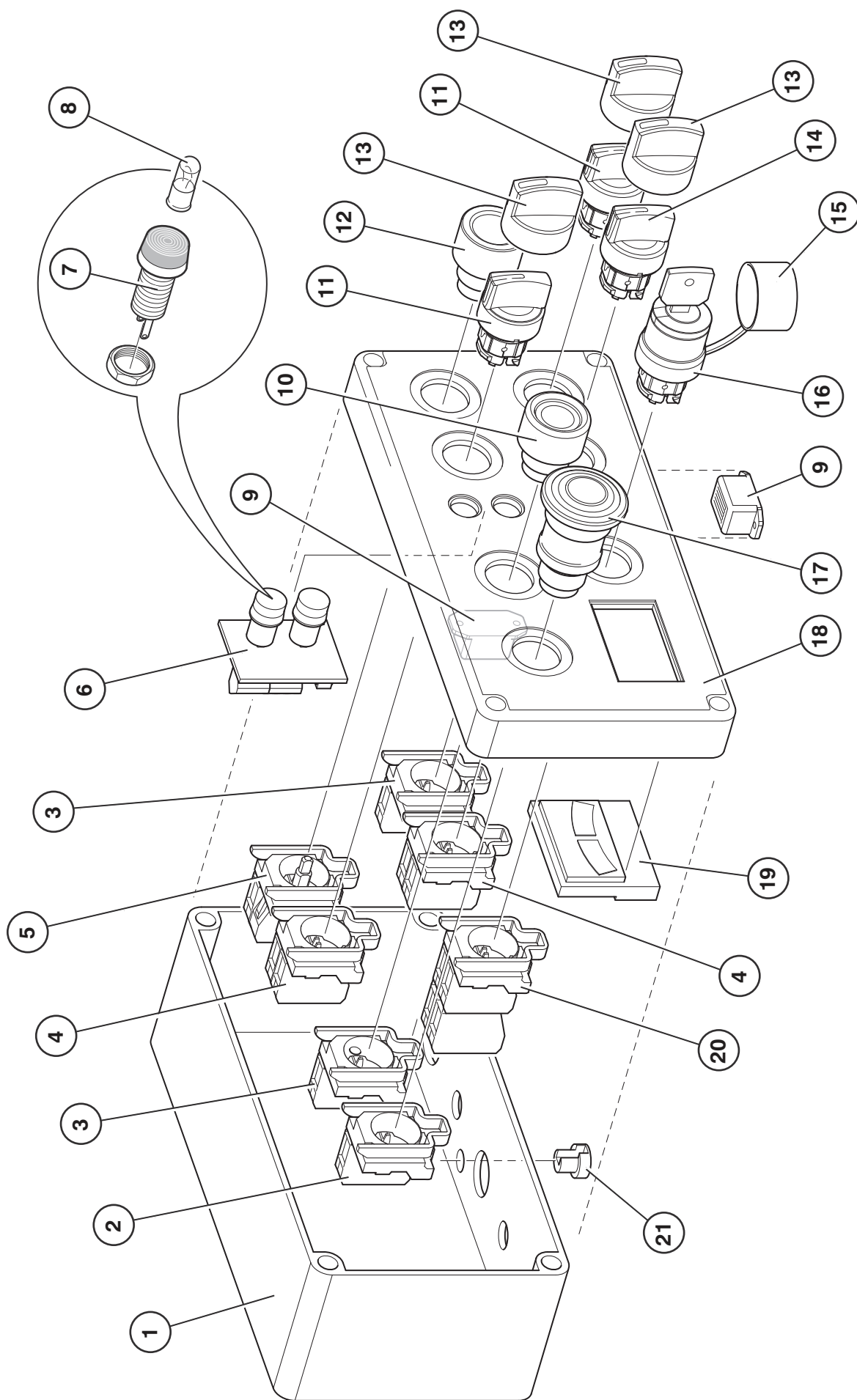
4.6 Cage control box

Item Description Part Number

	Complete assembly <i>Cage Weigh</i>				P28367
1	Box				P20550
2	Base, switch Contact - NC				P24322 P24324
3	Base, switch Contact - NO				P24322 P24323
4	Base, switch Contact - NO Contact - NO				P24322 P24323 P24323
5	Base, switch Contact - NO LED block - Green				P24322 P24323 P24338
6	PCB				P18276
7	Lamp assy. - Red				P11408
8	Bulb				P11409
9	Buzzer				P15224
10	Blue button				P24345
11	Selector switch				P24318
12	Green button (includes boot) Boot ONLY				P24333 P24332
13	Rubber cover				P24319
14	Selector switch				P24327
15	Key switch - 455 key (3 position)				P24346
16	Rubber cover				P24321
17	E-Stop button USA Only				P24317 P28564
18	Decal ONLY				P18961
19	Battery meter				P11494
20	Base, switch Contact - NO (x4)				P24322 P24323
21	Drain plug				P23737

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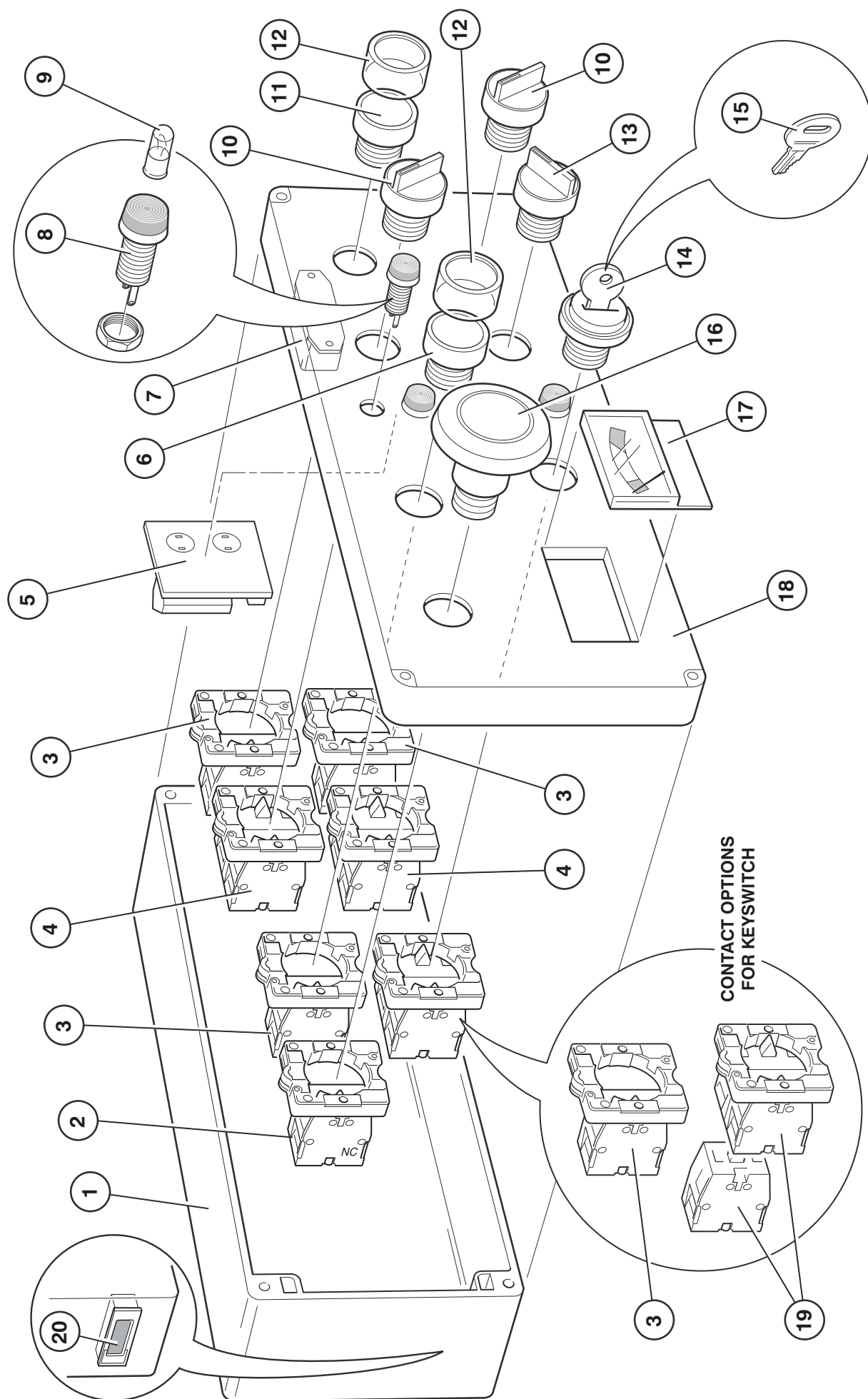
cage assemblies

4.7 Cage control box (USA - SD50)

Item	Description				Part Number
	Complete assembly <i>Non C/Weigh</i>				P18435
1	Box (Includes item 18)				P18345
2	Contact - NC				P11839
3	Contact - NO				P11838
4	Contact - Double NO (Bi-energy)				P11840
5	PCB				P18276
6	Buzzer				P15224
7	Blue button				P11117
8	Lamp assy. - Red				P11408
9	Bulb				P11409
10	Selector switch				P10777
11	Green button				P10075
12	Rubber cover				P22414
13	Selector switch- (Diesel/Bi-energy ONLY)				P12692
	Blanking Plate- (DC ONLY)				P11251
14	Key switch - 455 key (3 position)				P10081
15	Spare key				P70187
16	E-Stop button				P21541
17	Battery meter				P11494
18	Decal ONLY				P18961
19	Contact - Single NO Double NO (Bi-energy with Cage Weigh ONLY)				P11838 P11840
20	Hour meter (USA)				P11410

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german
spanish

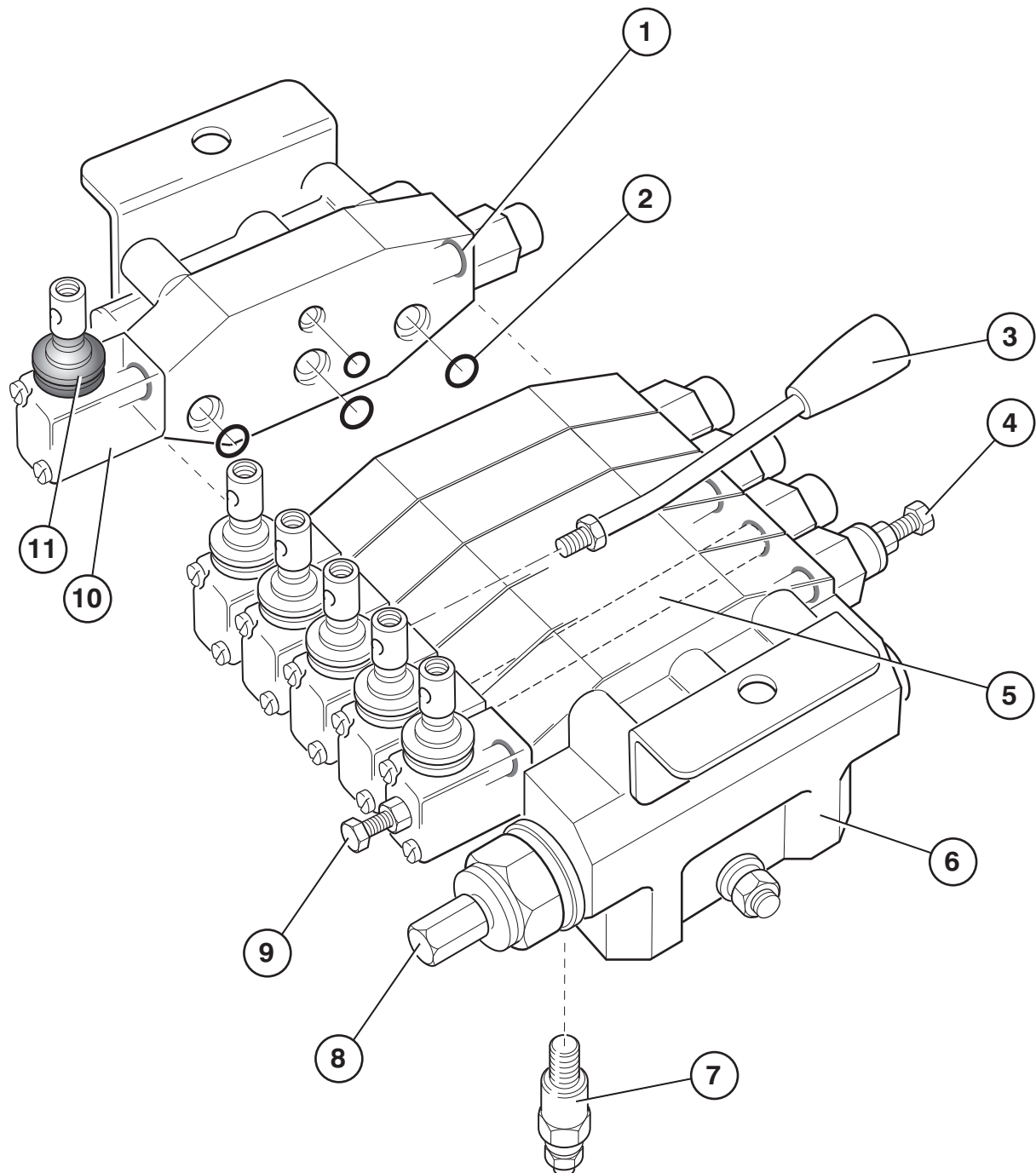
cage assemblies

4.8 Control valve

Item	Description	Part Number			
1	Valve seal kit				P10707
2	Interface seal kit				P10706
3	Lever (150mm)				P70346
4	Stroke restrictor/ Return spring				P16384
5	Spool (C)				P15512
6	Valve assembly 6 spool 5 spool				P18700 P24774
7	Pressure relief valve Telescope spool Levelling spool Boom 3 spool				P10879 P10879 P15840
8	Pressure relief valve				P70335
9	Stroke restrictor/ End cap				P16383
10	Lever cap				P70338
11	Rubber boot				P12225

french
german
spanish

cage assemblies



french
german
spanish

cage assemblies



nifty



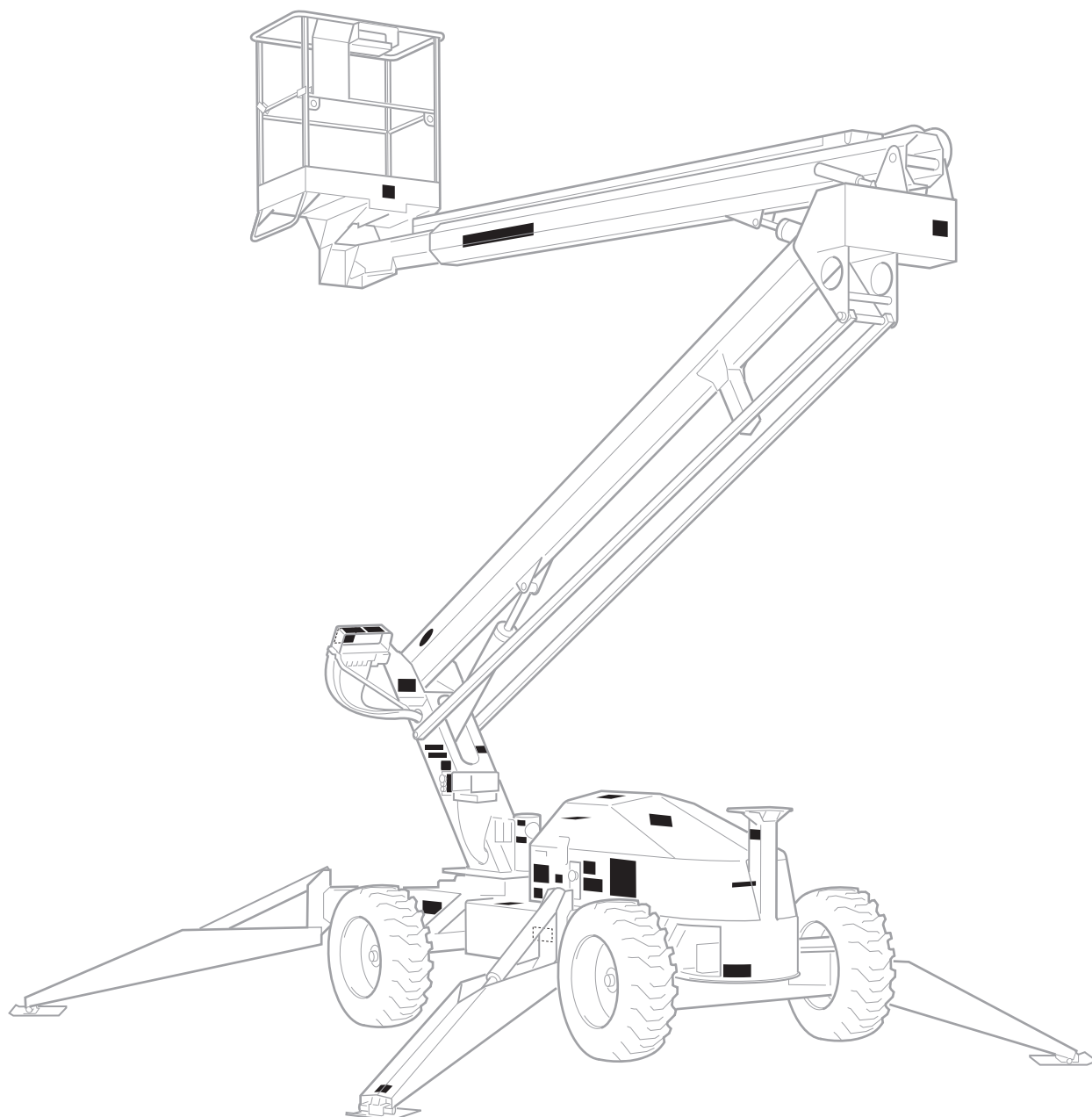
SD170 (SD50)

illustrated parts manual

Manuel illustré de pièces détachées

Illustrierte Stückliste

Manual de piezas ilustrado



5



labelling
french
german
spanish

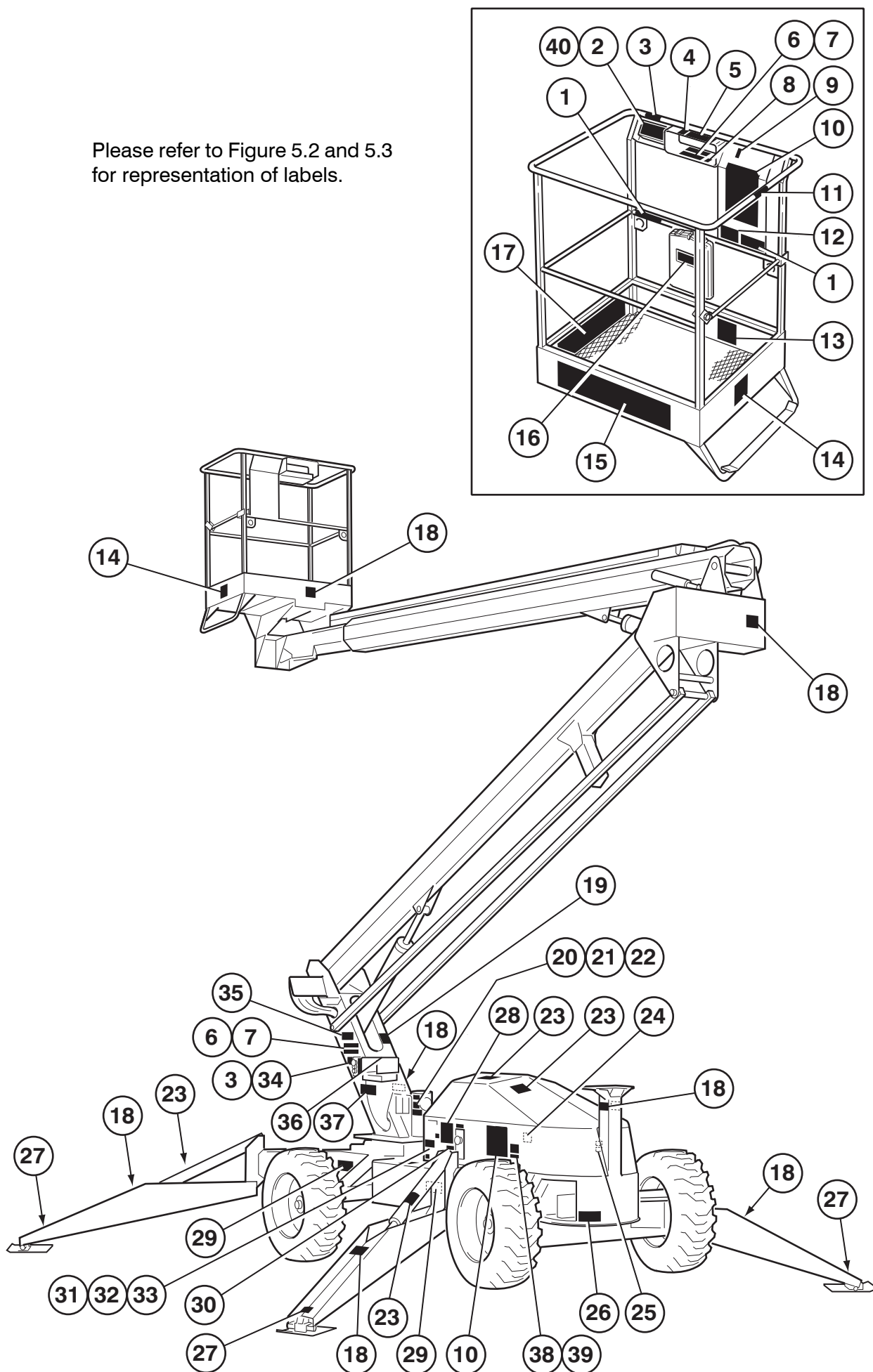
5.1 Label locations

Item	Description	Part Number
1	Harness point	P14883
	french	P14883
	german	P14883
	spanish	P14883
	dutch	P14883
	swedish	P14883
2	Cage control box	P18961
	french	P18961
	german	P18961
	spanish	P18961
	dutch	P18961
	swedish	P18961
3	If emergency stop disabled	P14864
	french	P14865
	german	P14866
	spanish	P14867
	dutch	P16628
	swedish	P19625
4	Cage rotation (Swivel cage ONLY)	P15634
	french	P15634
	german	P15634
	spanish	P15634
	dutch	P15634
	swedish	P15634
5	Control levers	P14927
	french	P14927
	german	P14927
	spanish	P14927
	dutch	P14927
	swedish	P14927
6	Outrigger alarm	P18842
	french	P18843
	german	P18844
	spanish	P18845
	dutch	P18846
	swedish	P19637

french
german
spanish

labelling

Please refer to Figure 5.2 and 5.3 for representation of labels.



french
german
spanish

labelling

5-3

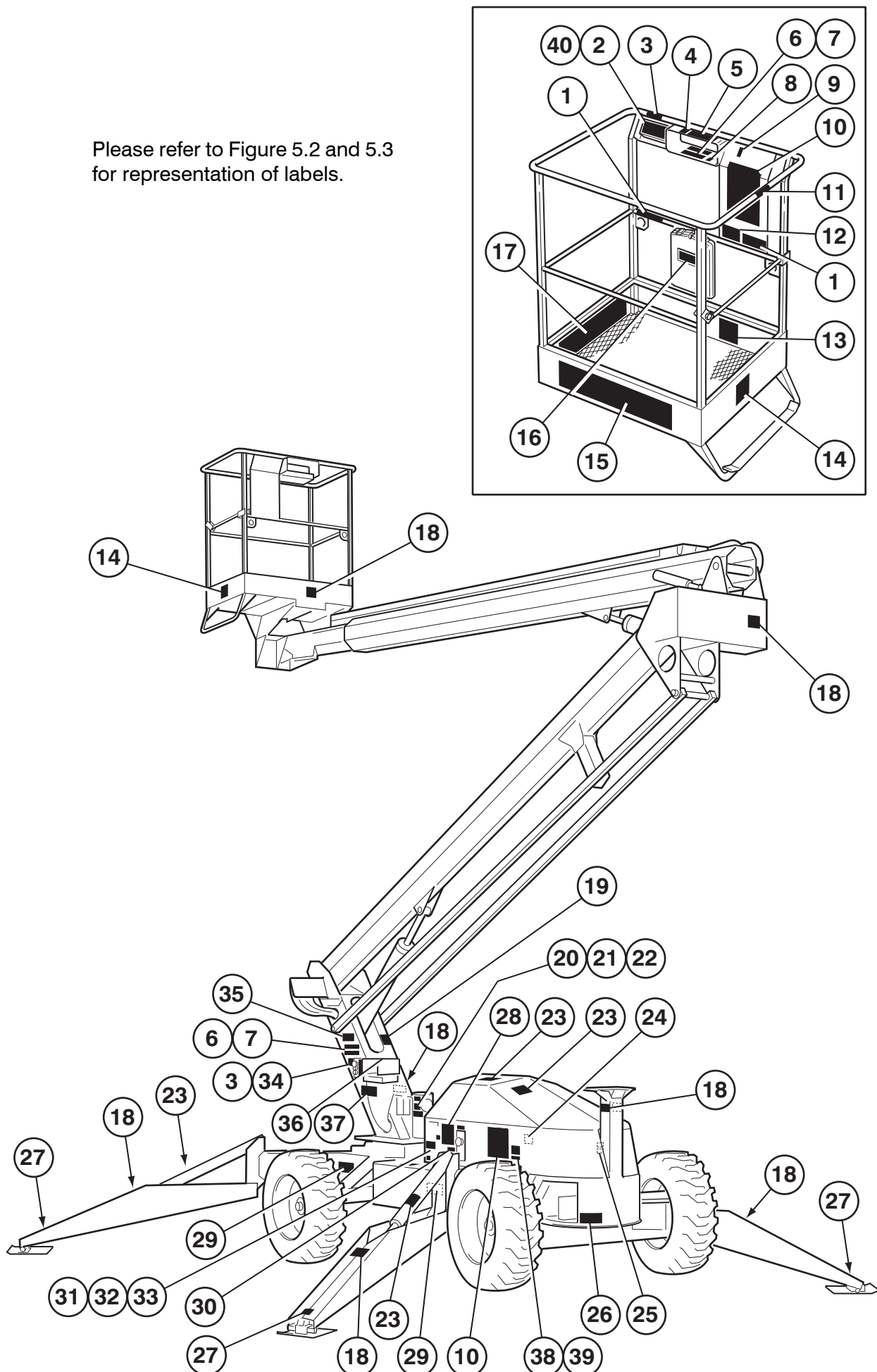
5.1 continued

Item	Description	Part Number
7	Cage overload warning	P18848
	french	P18849
	german	P18850
	spanish	P18851
	dutch	P18852
	swedish	P19638
8	Cage levelling	P10853
	french	P10853
	german	P10853
	spanish	P10853
	dutch	P10853
	swedish	P10853
9	Booms or Drive/Stabilisers - Switch	P22587
	french	P22587
	german	P22587
	spanish	P22587
	dutch	P22587
	swedish	P22587
10	General warning	P21970
	french	P21971
	german	P21972
	spanish	P21973
	dutch	P21974
	swedish	P21976
11	Cage gate warning	P18432
	french	P18432
	german	P18432
	spanish	P18432
	dutch	P18432
	swedish	P18432
12	Clunk Click	P19961
	french	P19961
	german	P19961
	spanish	P19961
	dutch	P19961
	swedish	P19961

french
german
spanish

labelling

Please refer to Figure 5.2 and 5.3 for representation of labels.



french
german
spanish

labelling

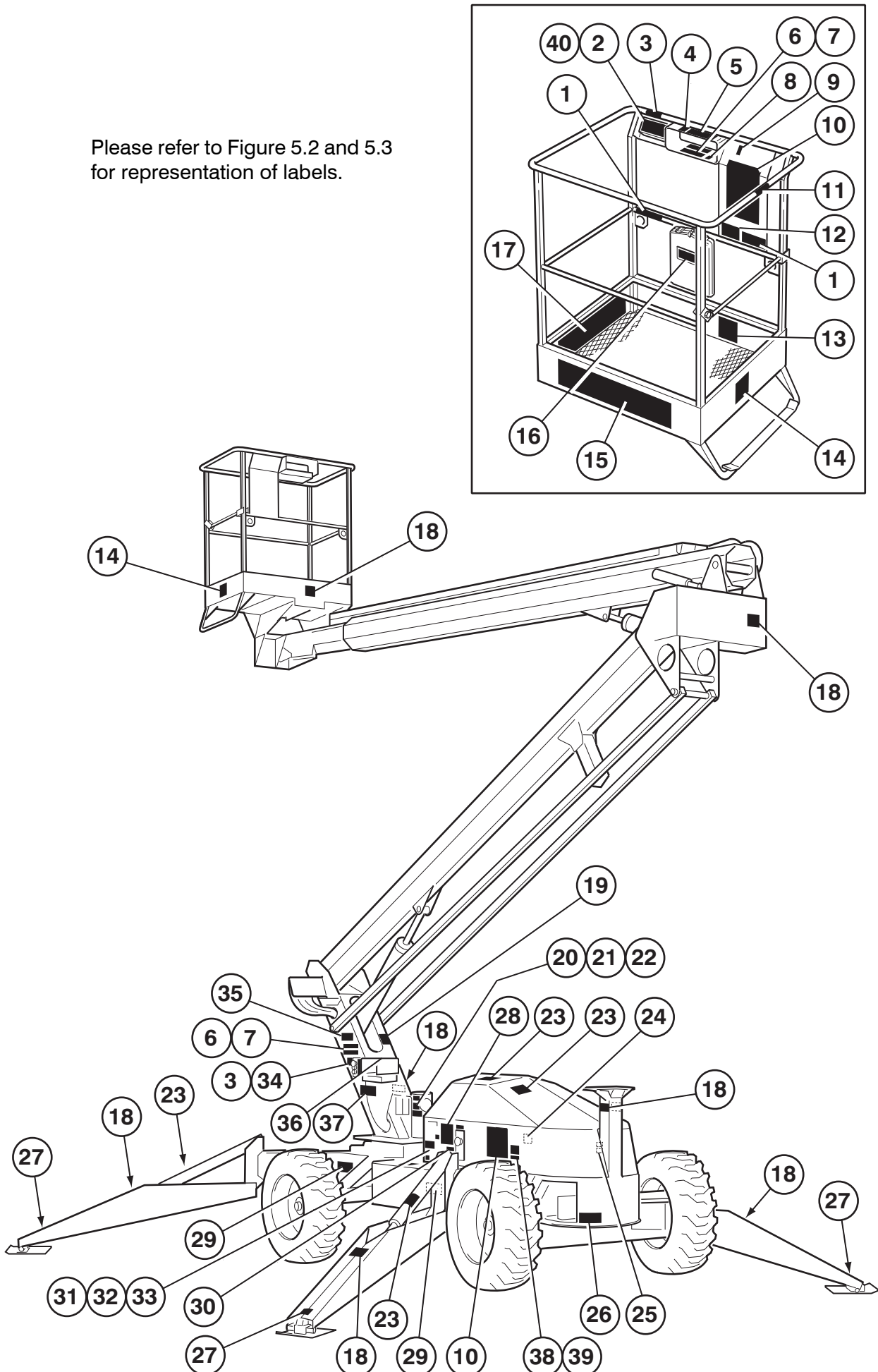
5.1 continued

Item	Description	Part Number
13	Footswitch	P14884
	french	P14885
	german	P14886
	spanish	P14887
	dutch	P16898
	swedish	P19626
14	Cage Tie-down Warning	P21404
	french	P21404
	german	P21404
	spanish	P21404
	dutch	P21404
	swedish	P21404
15	niftylift.com	P14390
	french	P14390
	german	P14390
	spanish	P14390
	dutch	P14390
	swedish	P14390
16	Operating instructions	P14892
	french	P14892
	german	P14892
	spanish	P14892
	dutch	P14892
	swedish	P14892
17	Platform capacity	P14801
	200kg 500lbs (USA/Canada)	P17328
	french	P14801
	german	P14801
	spanish	P14801
	dutch	P14801
	swedish	P14801

french
german
spanish

labelling

Please refer to Figure 5.2 and 5.3 for representation of labels.



french
german
spanish

labelling

5-7

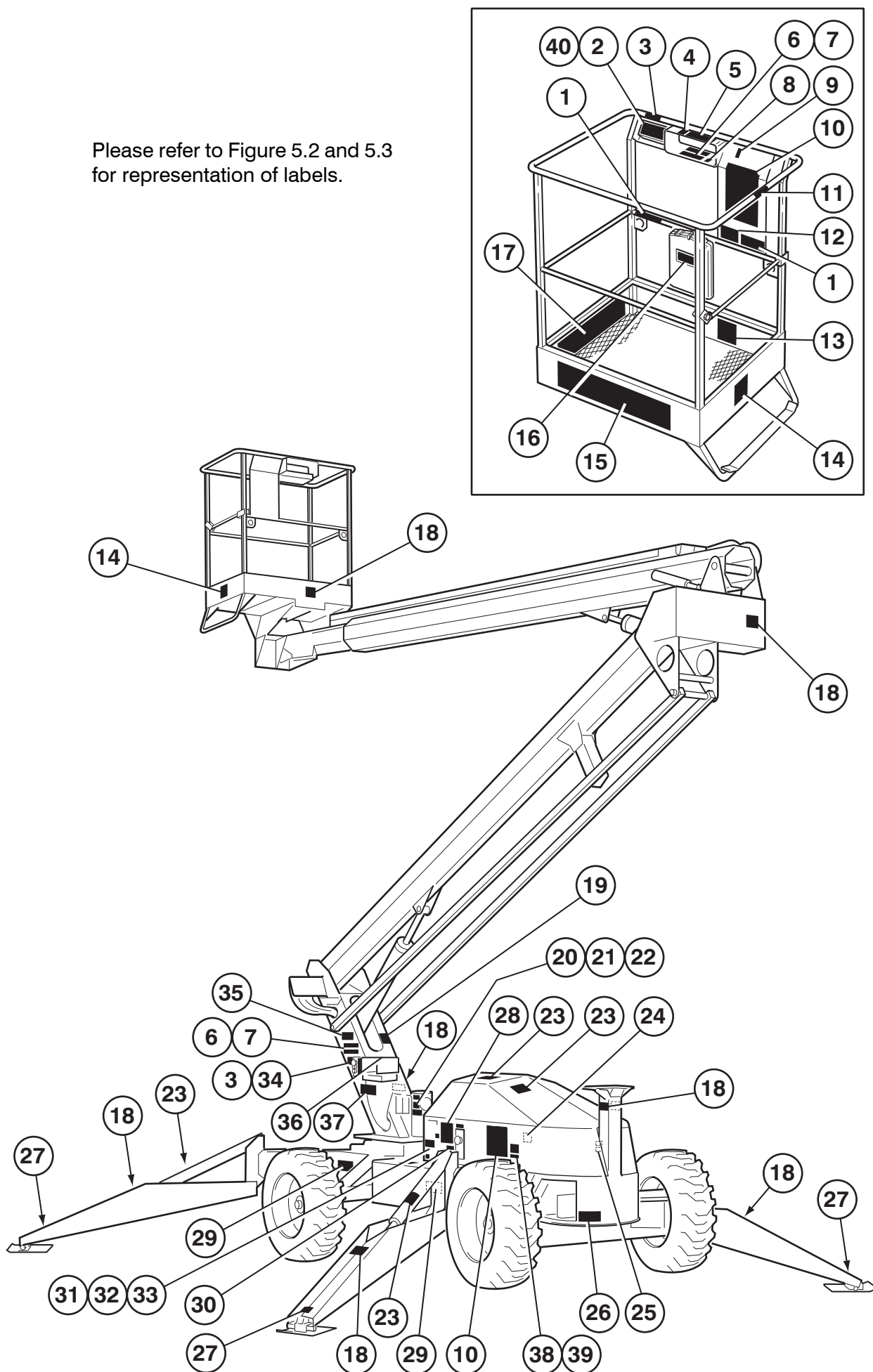
5.1 continued

Item	Description	Part Number
18	Crush hazard	P14782
	french	P14782
	german	P14782
	spanish	P14782
	dutch	P14782
	swedish	P14782
19	Machine plate (Blank)	P15383
	french	P15383
	german	P15383
	spanish	P15383
	dutch	P15383
	swedish	P15383
20	Manual descent	P19090
	french	P19090
	german	P19090
	spanish	P19090
	dutch	P19090
	swedish	P19090
21	Brake release valve	P19986
	french	P19986
	german	P19986
	spanish	P19986
	dutch	P19986
	swedish	P19986
22	Emergency Controls Location	P22877
	french	P22877
	german	P22877
	spanish	P22877
	dutch	P22877
	swedish	P22877
23	No step	P14785
	french	P14785
	german	P14785
	spanish	P14785
	dutch	P14785
	swedish	P14785

french
german
spanish

labelling

Please refer to Figure 5.2 and 5.3 for representation of labels.



french
german
spanish

labelling

5-9

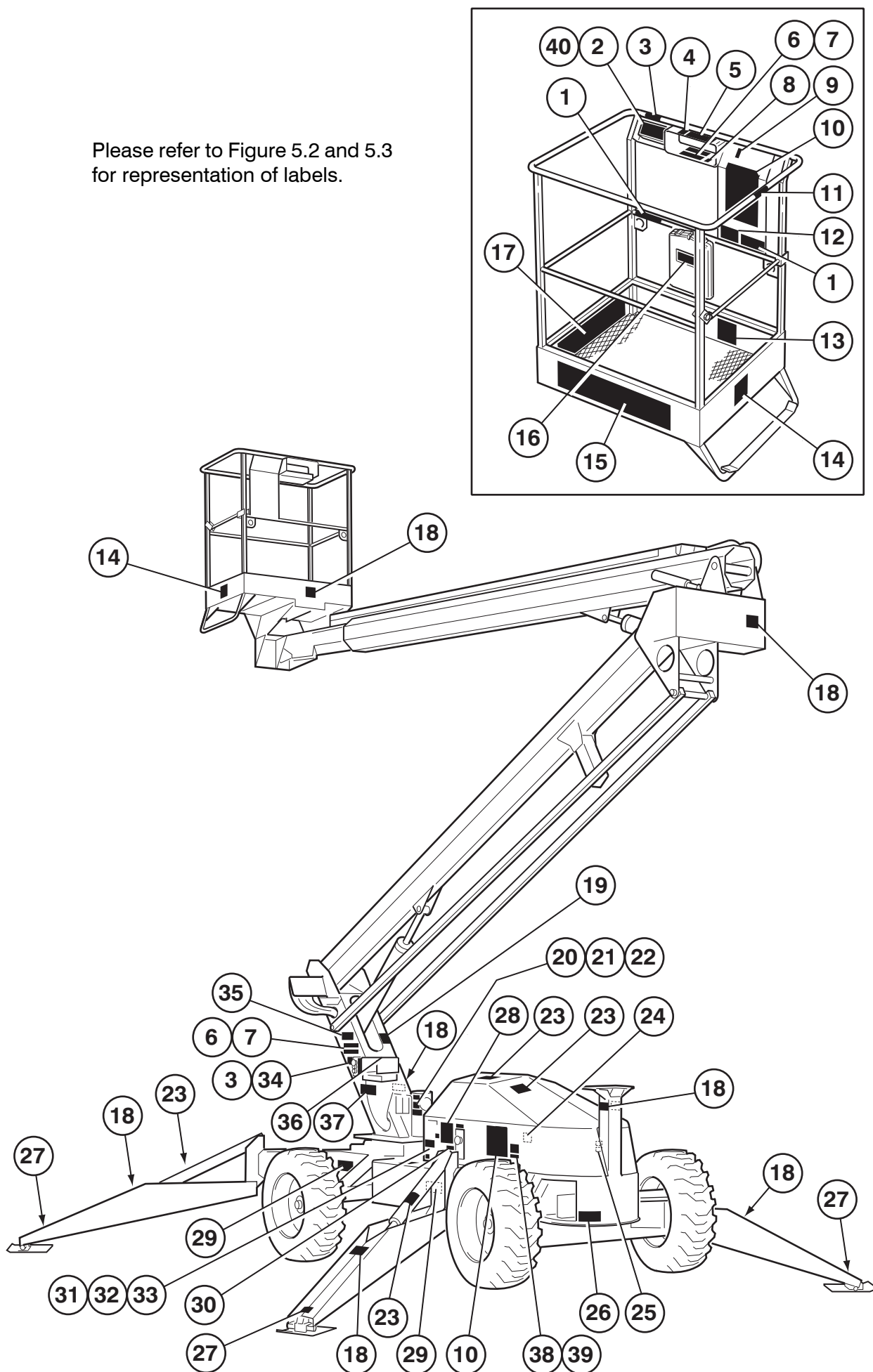
5.1 continued

Item	Description	Part Number
24	Outrigger bypass valve	P25907
	french	P25907
	german	P25907
	spanish	P25907
	dutch	P25907
	swedish	P25907
25	Trip Re-set	P19056
	french	P19056
	german	P19056
	spanish	P19056
	dutch	P19056
	swedish	P19056
26	Caution - Wheel lock release	P19444
	french	P15570
	german	P15571
	spanish	P15572
	dutch	P19444
	swedish	P19444
27	Point load 17.5 kN 4WD	P14967
	french 4WD	P14967
	german 4WD	P14967
	spanish 4WD	P14967
	dutch 4WD	P14967
	swedish 4WD	P14967
28	Daily Safety Check List	P14908
	french	P14909
	german	P14910
	spanish	P14911
	dutch	P16630
	swedish	P19629
29	Warning- Outriggers	P14841
	french	P14842
	german	P14843
	spanish	P14844
	dutch	P16262
	swedish	P19624

french
german
spanish

labelling

Please refer to Figure 5.2 and 5.3 for representation of labels.



french
german
spanish

labelling

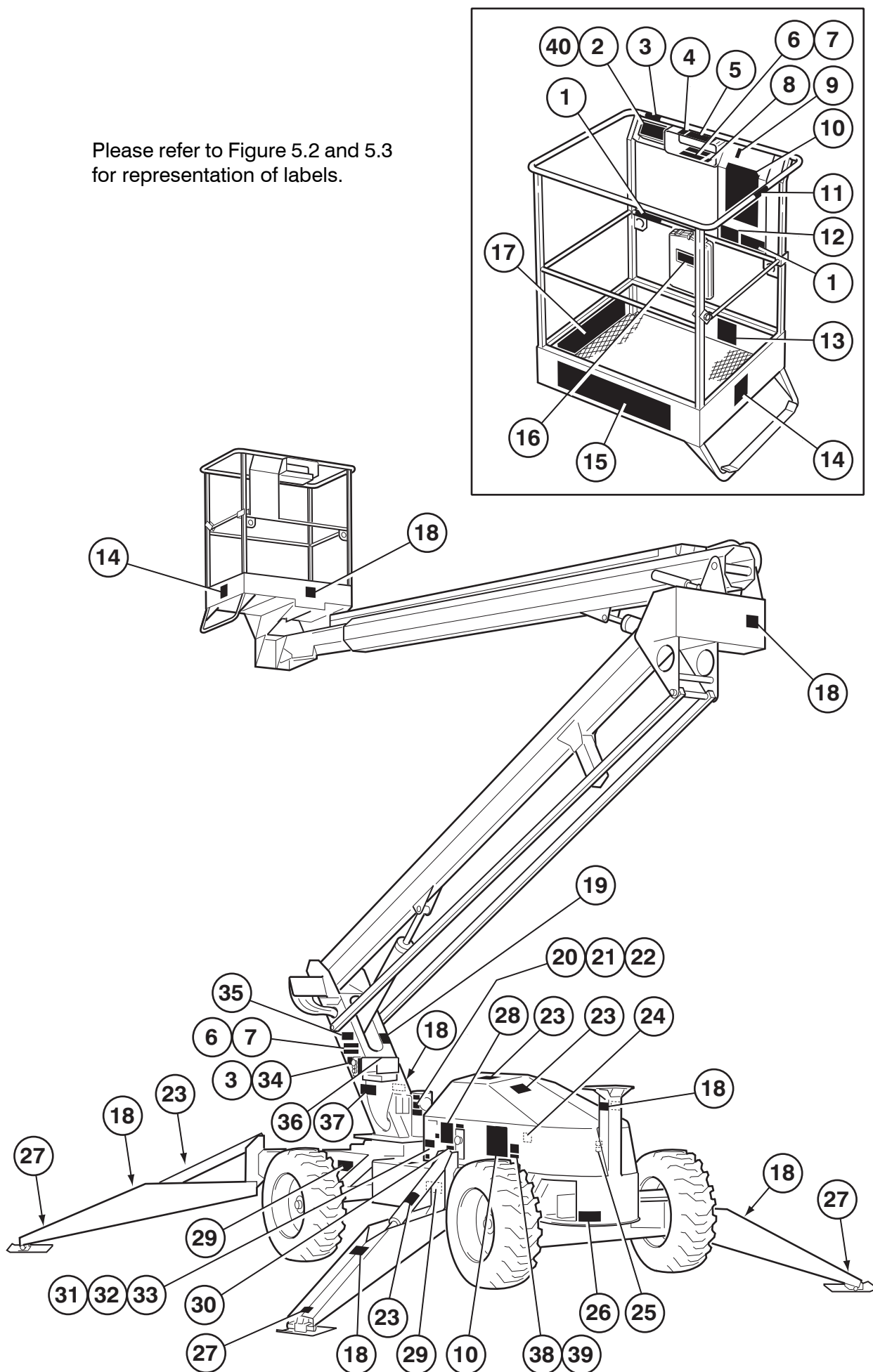
5.1 continued

Item	Description	Part Number
30	Battery disconnect	P19700
	french	P11810
	german	P19700
	spanish	P13434
	dutch	P19700
	swedish	P19700
31	Battery charging	P21951
	french	P21952
	german	P21953
	spanish	P21954
	dutch	P16746
	swedish	P19628
32	Diesel fuel only	P14414
	french	P14414
	german	P14414
	spanish	P14414
	dutch	P14414
	swedish	P14414
33	Noise warning - 73dB	P17123
	french	P17123
	german	P17123
	spanish	P17123
	dutch	P17123
	swedish	P17123
34	Button box	cage weigh instinctive
	french	P17219 P15881
	german	P17219 P15881
	spanish	P17219 P15881
	dutch	P17219 P15881
	swedish	P17219 P15881

french
german
spanish

labelling

Please refer to Figure 5.2 and 5.3 for representation of labels.



french
german
spanish

labelling

5-13

5.1 continued

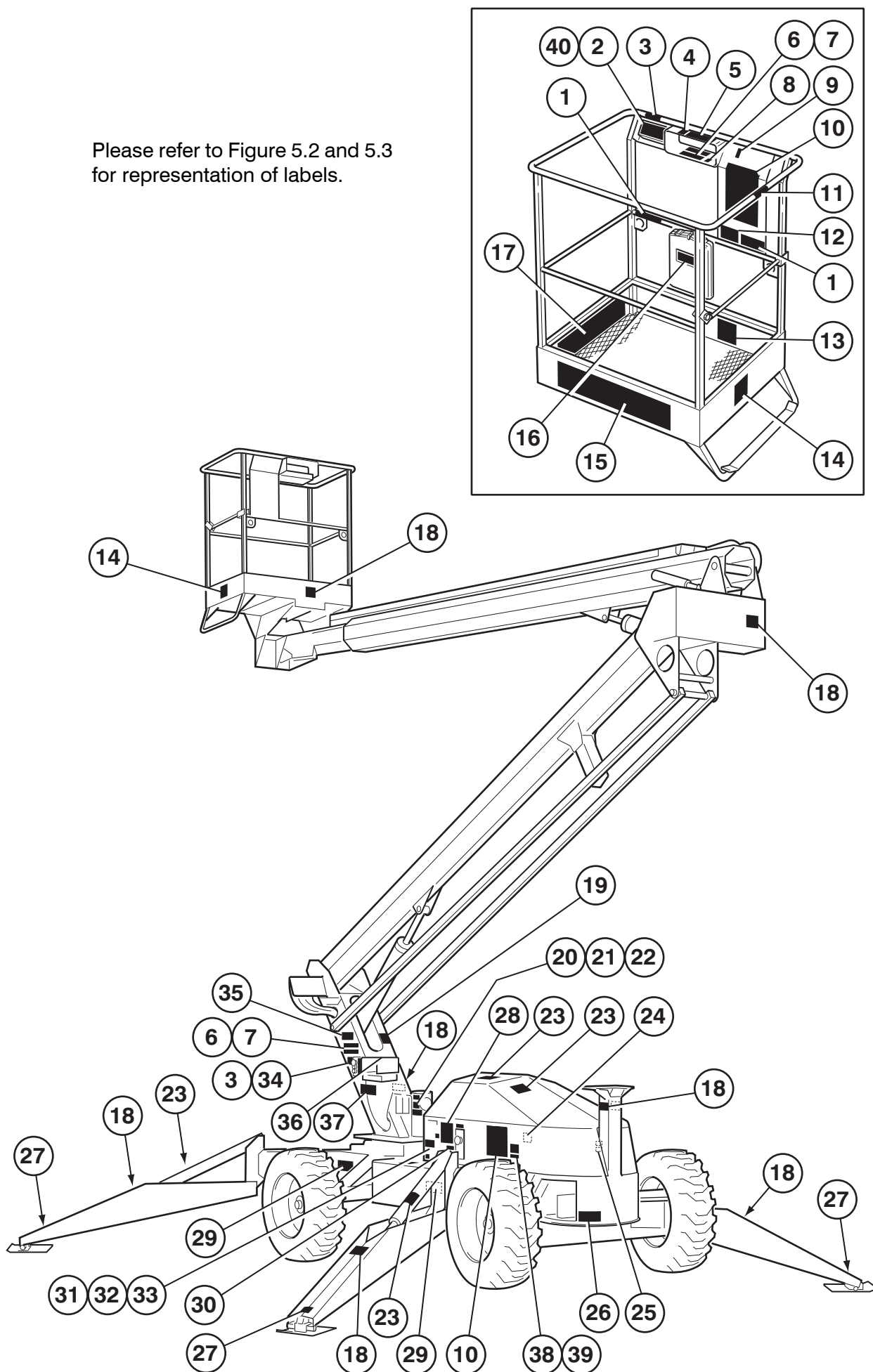
Item	Description	Part Number
35	IPAF - Are you trained?	P22055
	french	P22055
	german	P22055
	spanish	P22055
	dutch	P22055
	swedish	P22055
36	Control levers	P14926
	french	P14926
	german	P14926
	spanish	P14926
	dutch	P14926
	swedish	P14926
37 *	Rotating machinery	P15010
38 *	ANSI Compliance	P25250
39	CSA Compliance (Canada)	P25120
40 *	Cage control box	P11831

* SD50 (USA) only

french
german
spanish

labelling

Please refer to Figure 5.2 and 5.3 for representation of labels.



french
german
spanish

labelling

5-15

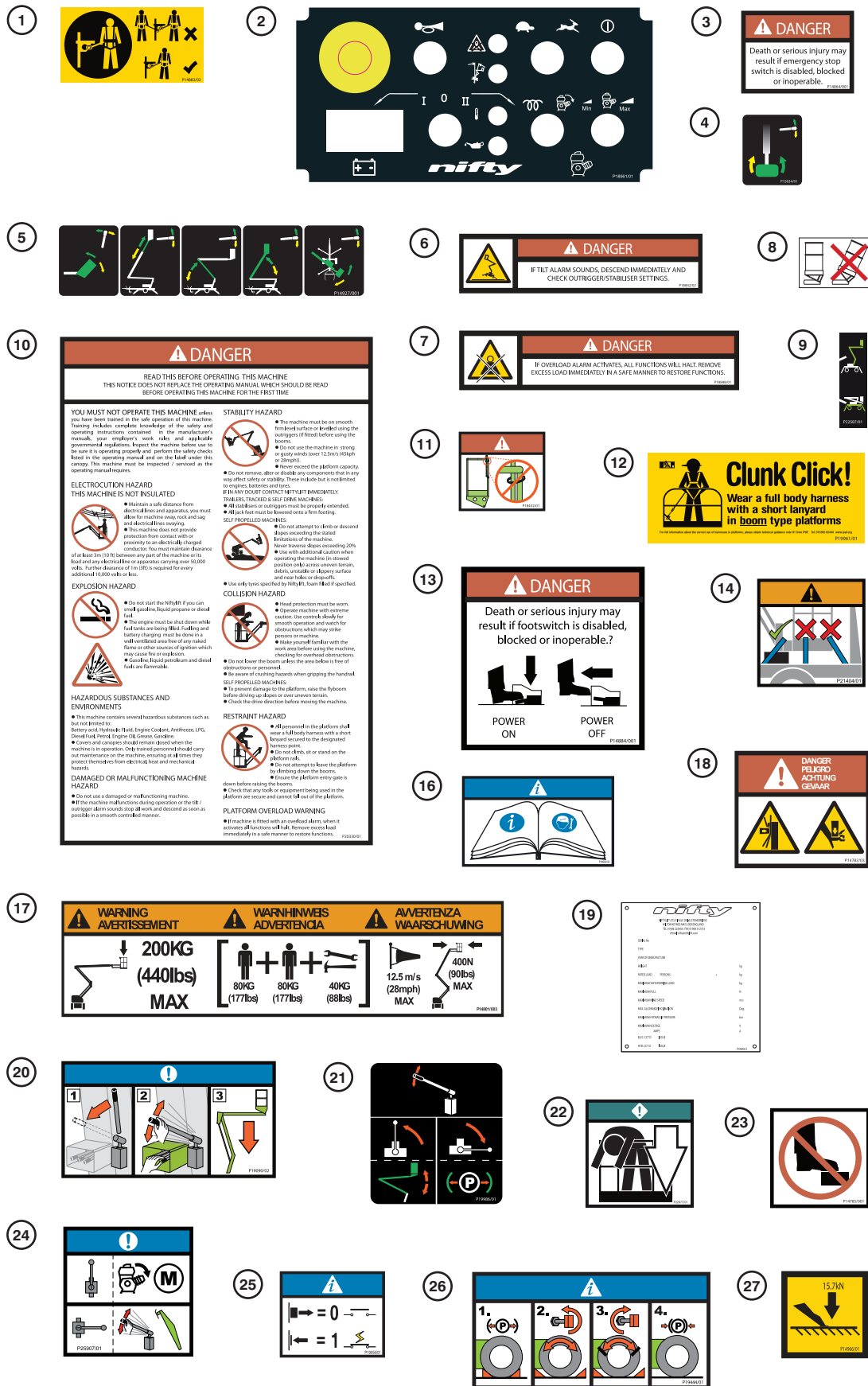
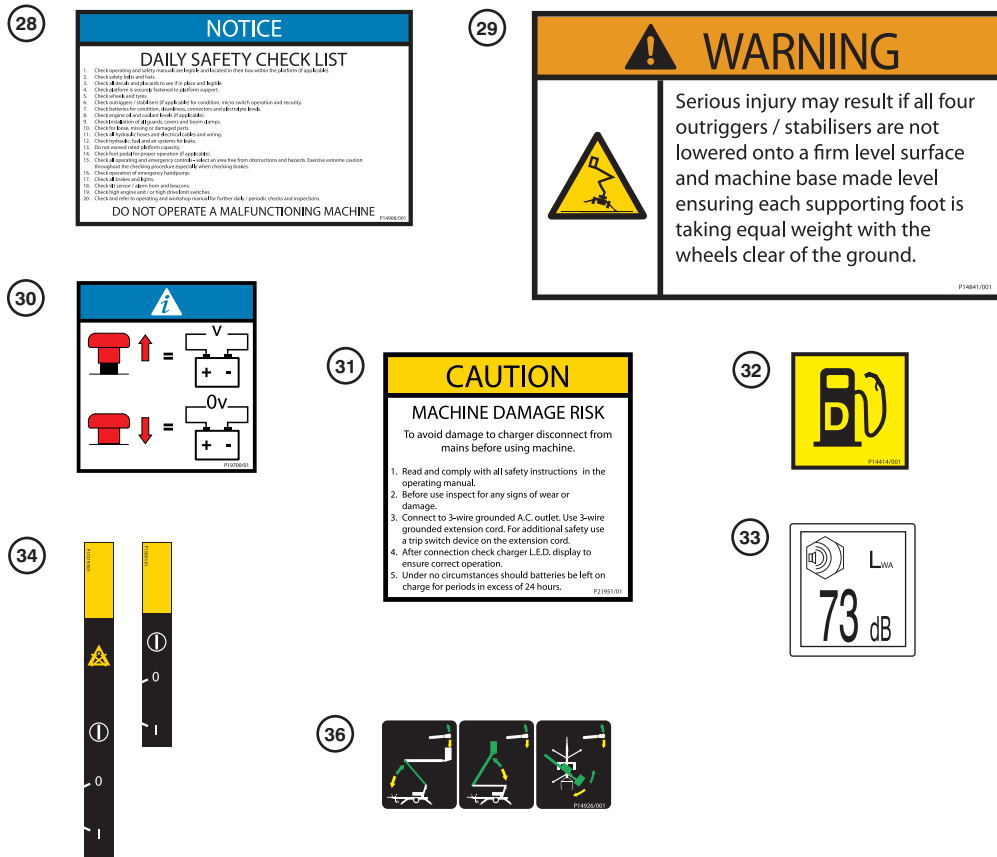
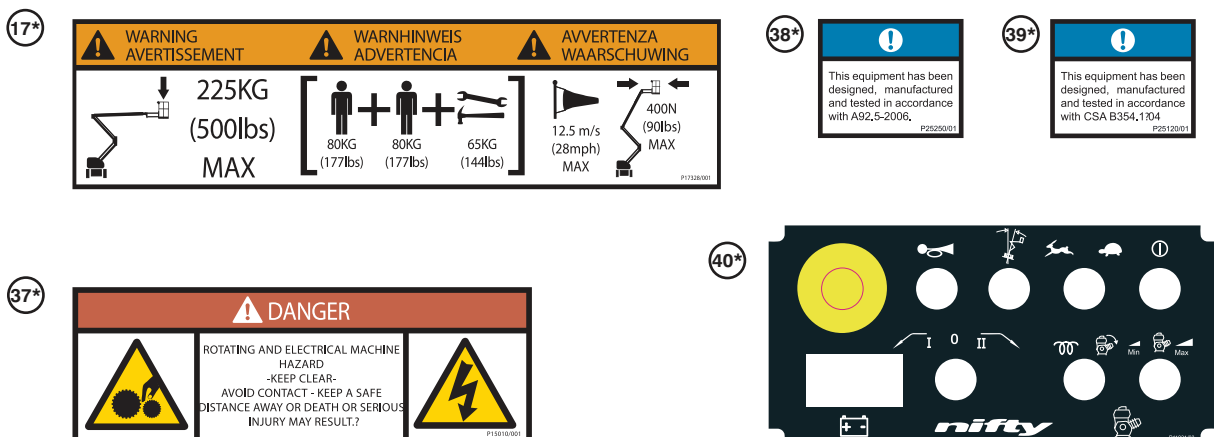


Figure 5.2 Labels (1-27)



*SD50 (USA) ONLY



french
german
spanish

labelling



nifty



SD170 (SD50)

illustrated parts manual

Manuel illustré de pièces détachées

Illustrierte Stückliste

Manual de piezas ilustrado



6

hydraulic hoses

french
german
spanish

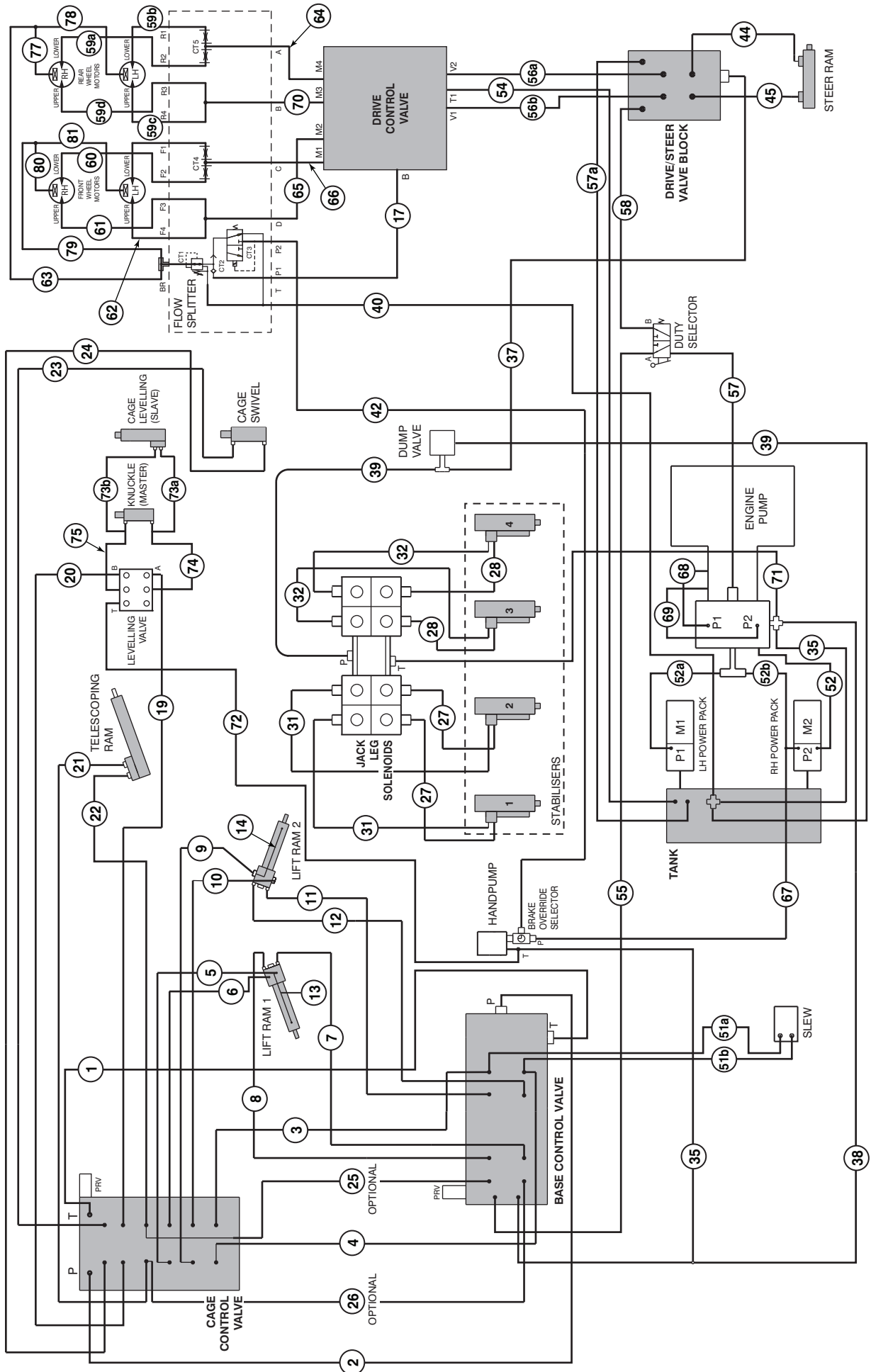
6.1 Hose Kit (4WD)

Number	Description
--------	-------------

1	Cage return to base			
2	Base control to cage - pressure			
3	Cage to base slew - pressure			
4	Cage to base slew - pilot			
5	Cage control to RAM 1 - pilot			
6	Cage control to RAM 1 - pressure			
7	Base control to RAM 1 - pilot			
8	Base control to RAM 1 - pressure			
9	Cage control to RAM 2 - pilot			
10	Cage control to RAM 2 - pressure			
11	Base control to RAM 2 - pressure			
12	Base control to RAM 2 - pilot			
13	RAM 1 - pilot link			
14	RAM 2 - pilot link			
17	DCV to valve block			
19	Cage control to levelling ram (slave)			
20	Cage control to levelling ram (slave)			
21	Cage control to telescoping ram - pilot			
22	Cage control to telescoping ram - pressure			
23	Cage control to swivel ram (master)			
24	Cage control to swivel ram (master)			
25	Cage to base (Optional) P14467			
26	Cage to base (Optional) P14468			
27	Jack leg solenoid valve to Rams 1 & 2 - Pilot			

french
german
spanish

hydraulic hoses



french
german
spanish

hydraulic hoses

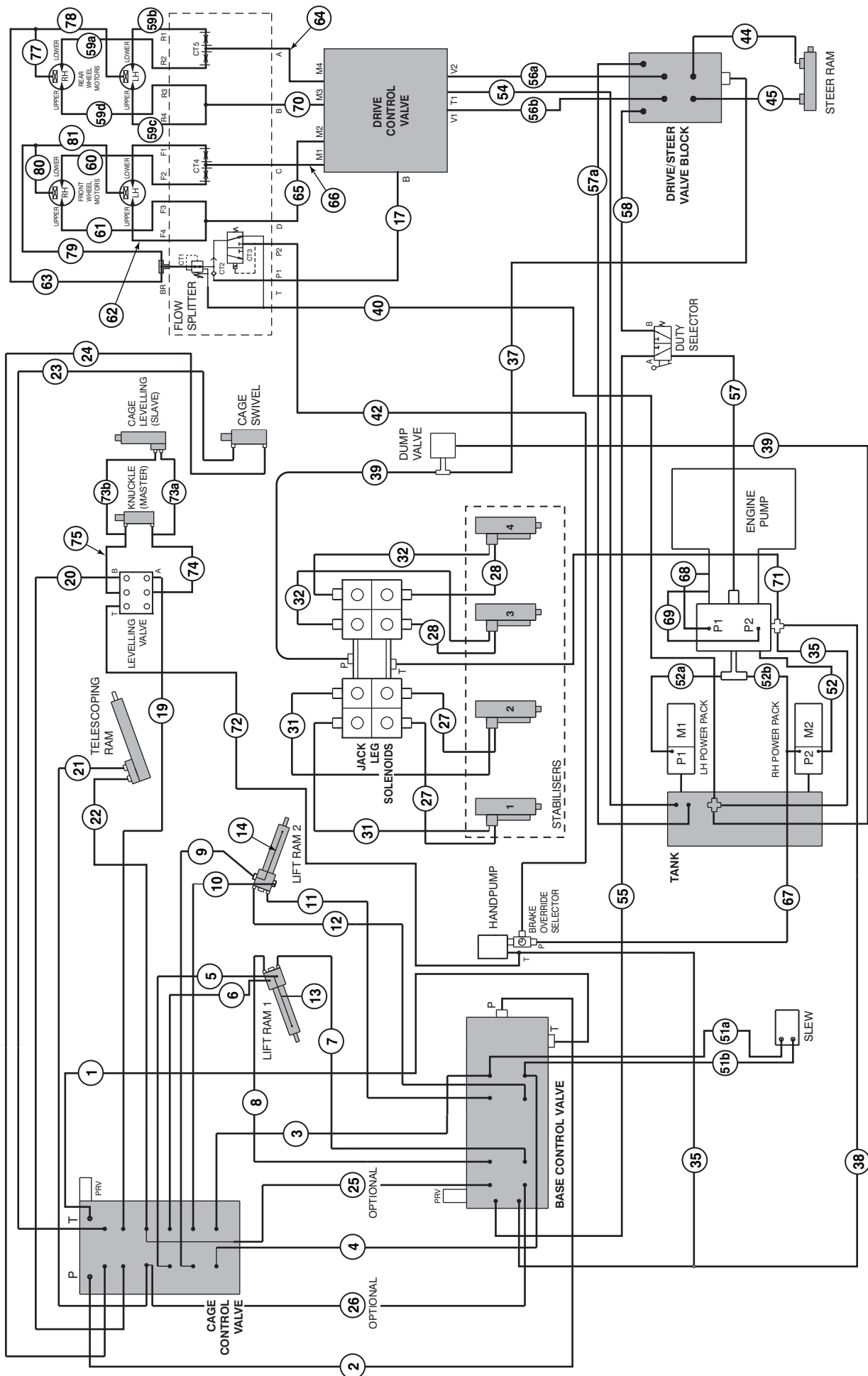
6.2 continued

Number Description

28	Jack leg solenoid valve to Rams 3 & 4 - Pilot			
31	Jack leg solenoid valve to Rams 1 & 2 - Pressure			
32	Jack leg solenoid valve to Rams 3 & 4 - Pressure			
35	Manifold & hand pump to tank return			
37	Pressure to drive/steer			
38	Base return to tank			
39	Pressure feed Diesel PM			
40	Valve block PRV return to tank			
42	Hand pump to valve block			
44	Drive valve to steer ram			
45	Drive valve to steer ram			
51a/b	Base to slew			
52	Engine manifold to P2 return			
52a/b	Engine manifold to P2 return			
54	Drive control valve return to tank			
55	Base to duty selector			
56a/b	DCV to drive /steer block			
57	Manifold to duty selector			
57a	Drive/steer block return to tank			
58	Duty selector to drive/steer block			
59a/b/c/d	Rear wheel drive motors			
60	Front wheel drive motors			
61	Front wheel drive motors			

french
german
spanish

hydraulic hoses



french
german
spanish

hydraulic hoses

6.2 continued

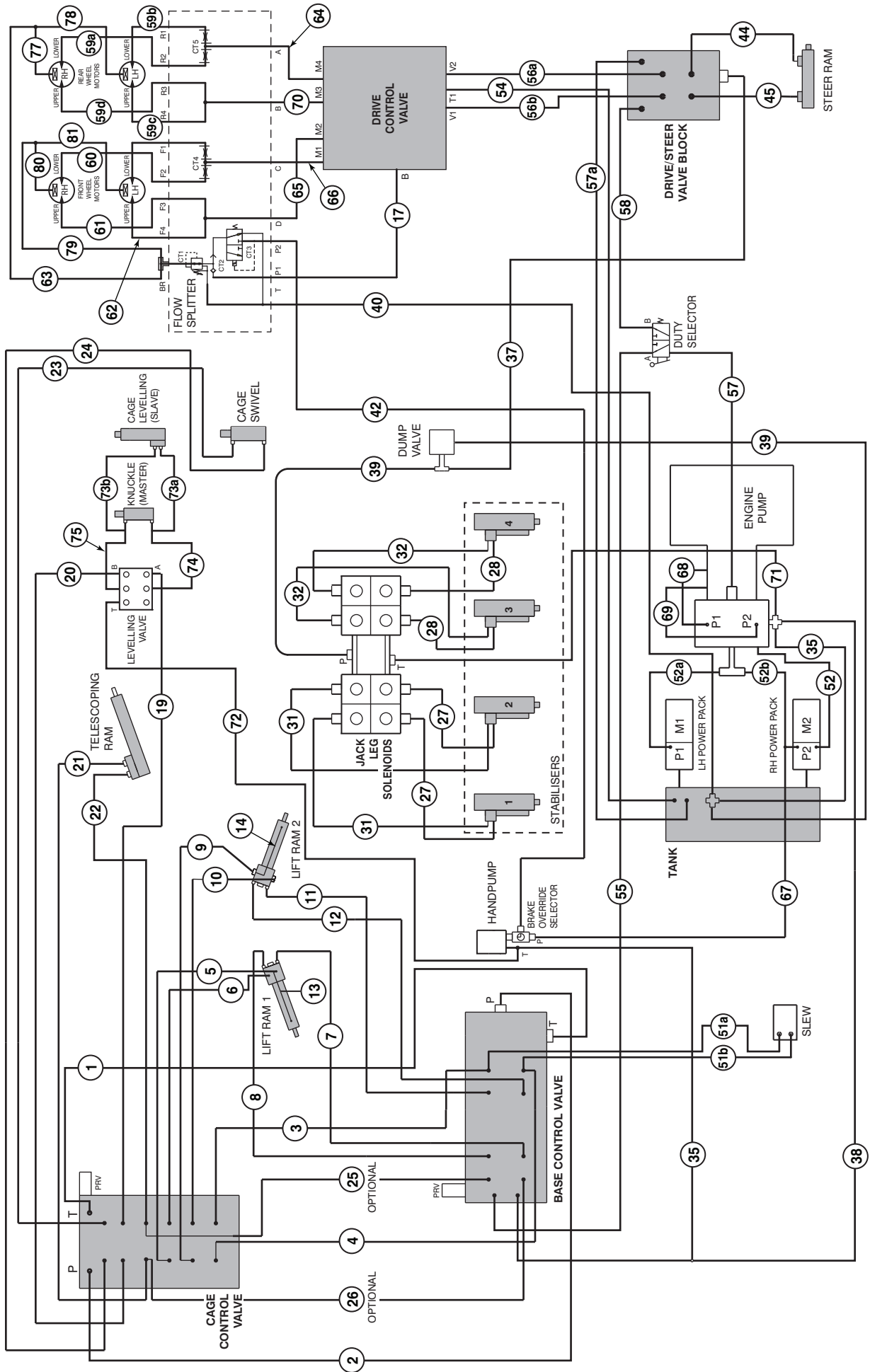
Number Description

62	Front wheel drive motors			
63	Valve block (PRV) to rear wheel motors			
64	DCV to valve block (Rear divider)			
65	DCV to front wheel motor			
66	DCV to valve block (Front divider)			
67	Hand pump to manifold			
68	Pump to manifold			
69	Pump to manifold			
70	DCV to rear wheel motor			
71	Jack leg solenoid return to tank			
72	Levelling valve to hand pump return			
73a/b	Knuckle tee to Cage levelling cylinder			
74	Levelling valve to knuckle tee			
75	Levelling valve to knuckle tee			
76	Front wheel drive motor			
77	Rear brake tee piece to RH motor			
78	Rear brake tee piece to LH motor			
79	Valve block to front wheel brake 'T'			
80	Front brake 'T' to RH motor			
81	Front brake 'T' to LH motor			
82*	Tank to Filter			
83*	Filter to Pump			

* Not illustrated

french
german
spanish

hydraulic hoses



french
german
spanish

hydraulic hoses

