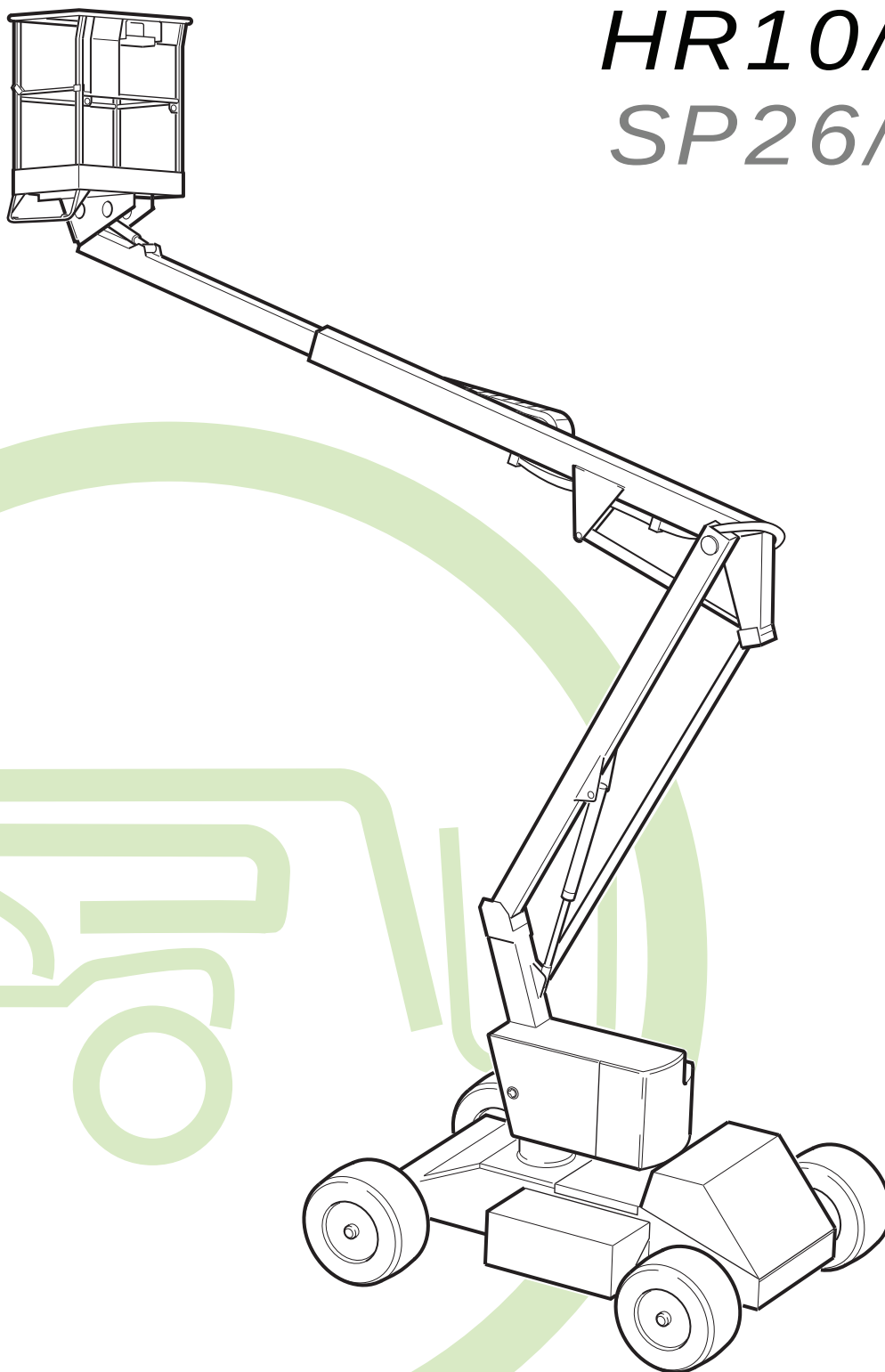




nifty



HR10/12
SP26/34

niftylift.com

M50190/09



Issue 9
(December 2010)

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.
32 Concourse Way
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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Greer
SC 29651
USA

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

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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.

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Milton Keynes
MK13 OER
Großbritannien

Niftylift Inc.
32 Concourse Way
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USA

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1 864 968 8881
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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:

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Stonebridge
Milton Keynes
MK13 OER
United Kingdom

Niftylift Inc.
32 Concourse Way
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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Issue Records

Chapter	Pages	Issue	Date	Comments/Changes
Introduction	8	9	12/2010	Ninth issue
1	22	9	05/2011	Revised for 'Power packs' (Pages 1-2 and 1-10/11)
2	18	7	07/2010	Revised for 'Button box' (Pages 2-10/11)
3	18	7	08/2009	Revised for 'Energy chain' (Pages 3-16/17)
4	16	8	11/2010	Revised for 'Level cylinder' (Pages 4-8 to 4-10)
5	22	6	02/2009	Sixth issue
6	10	2	03/2006	Second 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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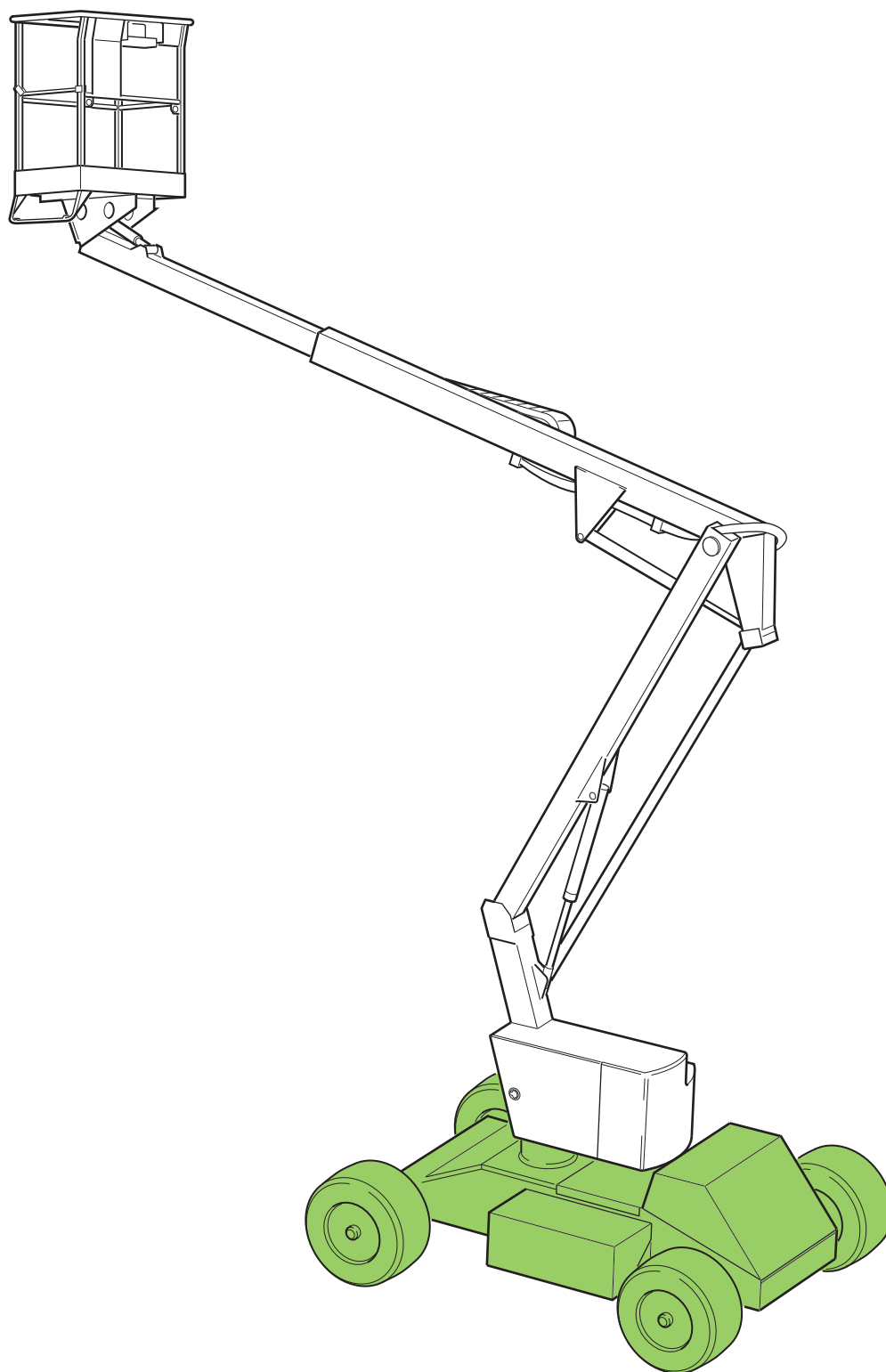
HR10/12 (SP26/34)

illustrated parts manual

Manuel illustré de pièces détachées

Illustrierte Stückliste

Manual de piezas ilustrado



1

chassis assembly

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german
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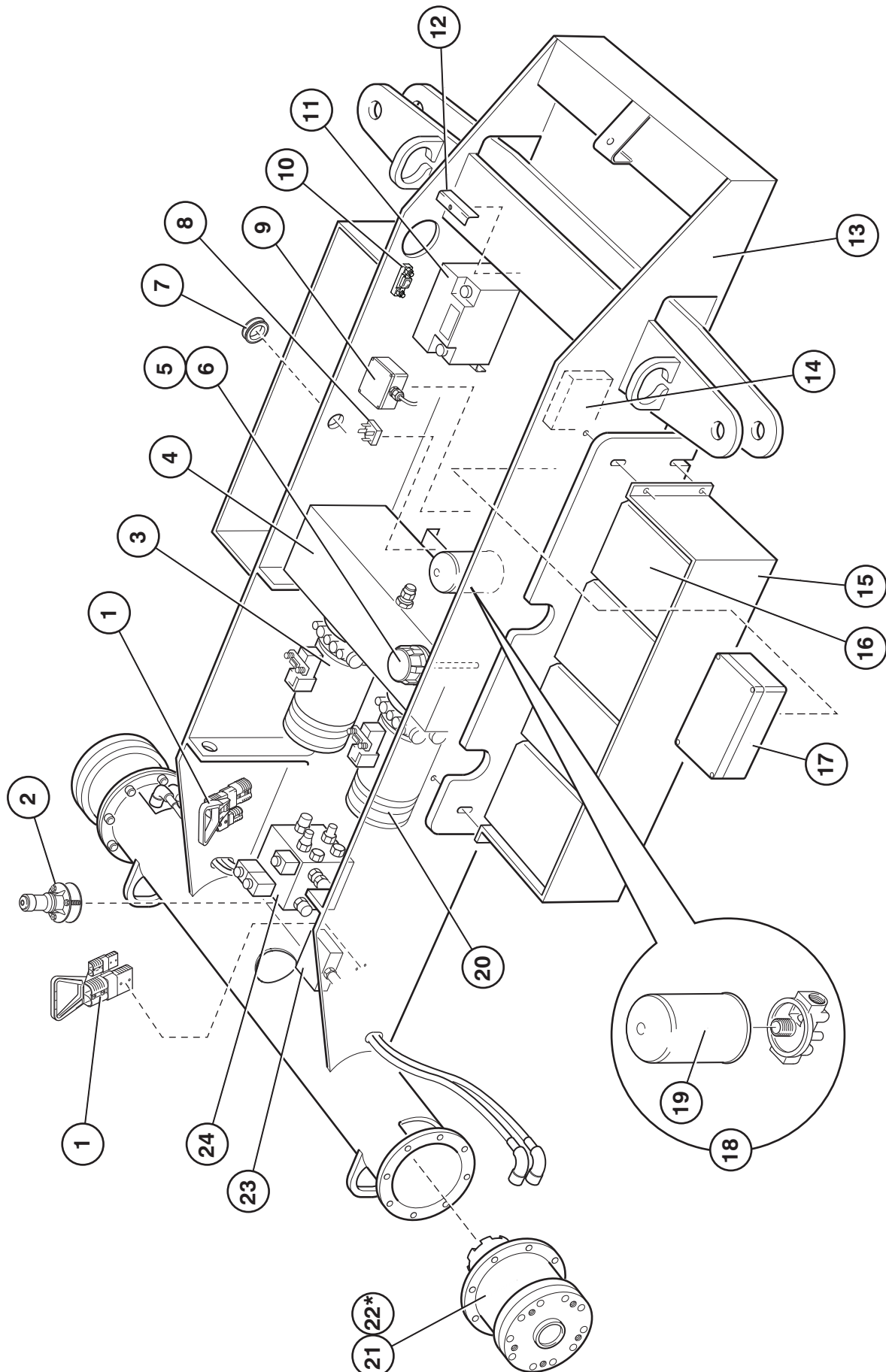
1.1 Base assembly

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

1	Anderson connectors See "Anderson connector" on page 1-20.	N/A
2	Tilt sensor	P16109
3	Power pack LH (1.2cc pump) - See "Power pack" on page 1-10.	P16210
4	Hydraulic oil tank - 19litres/5 gal (USA)	P16288
5	Filler cap and filter	P10136
6	Dipstick	P11643
7	Grommet	P11283
8	Bridge rectifier	P15763
9	Junction box	P16442
10	Fuse - 125A Fuse Holder	P12696 P11976
11	Battery - 12v	P11975
12	Battery clamp	P12295
13	Base HR10 HR12 HR12N	P20905 P20020 P20019
14	Regulator (Bi-energy only)	P13637
15	Battery carrier (Bi-energy only)	P10786
16	Battery - 6v (E or DE Only)	P10829
17	Diesel control box - See "Diesel box" on page 1-18.	P13627
18	Hydraulic oil filter and bowl assembly	P10137
19	Replacement cartridge for item 18	P10766
20	Power pack RH (2.2cc pump) - See "Power pack" on page 1-10.	P16211
21	Gearbox	P15698
22 *	Seal kit for item 21	P18126
23	Terminal box assy	P14370

* Not illustrated

24	Drive control valve - See "Drive control valve" on page 1-12.				P19617
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chassis assembly

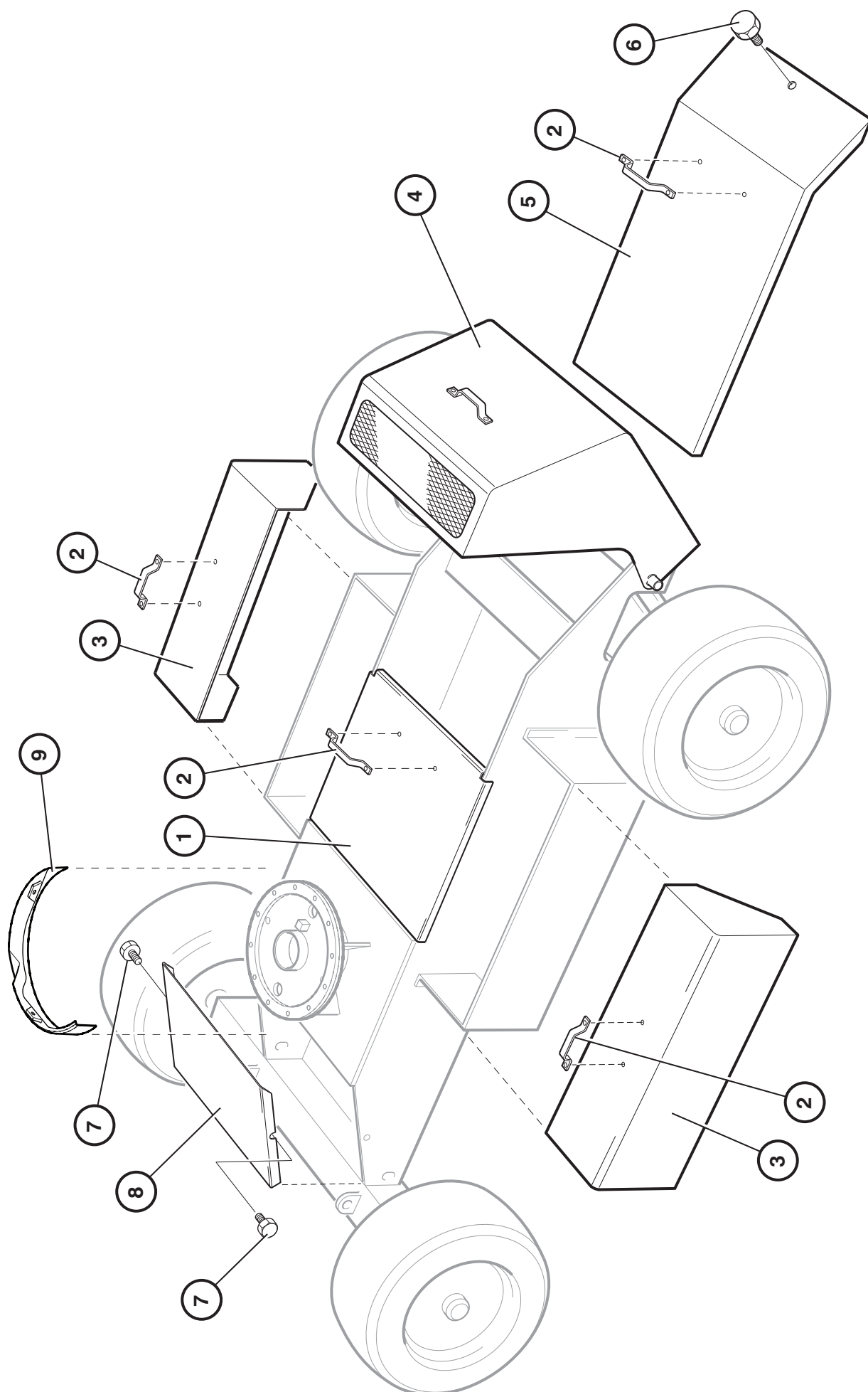
1-3

1.2 Bonnets/Covers/Guards

Item	Description				Part Number
1	Middle bonnet - All models				P12241
2	Handle				P10241
3	Battery cover				P10822
4	Front bonnet - HR12 Narrow Bi-energy HR12 Wide and HR10 Bi-energy				P12237 P18000
5	Front bonnet - HR10 and HR12 DC				P14241
6	Knob (M12 x 25)				P10276
7	Knob (M10 x 20)				P14482
8	Rear bonnet - All models				P15359
9	Slew guard				P20084

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1-5

Figure 1.2 Bonnets/covers and guards

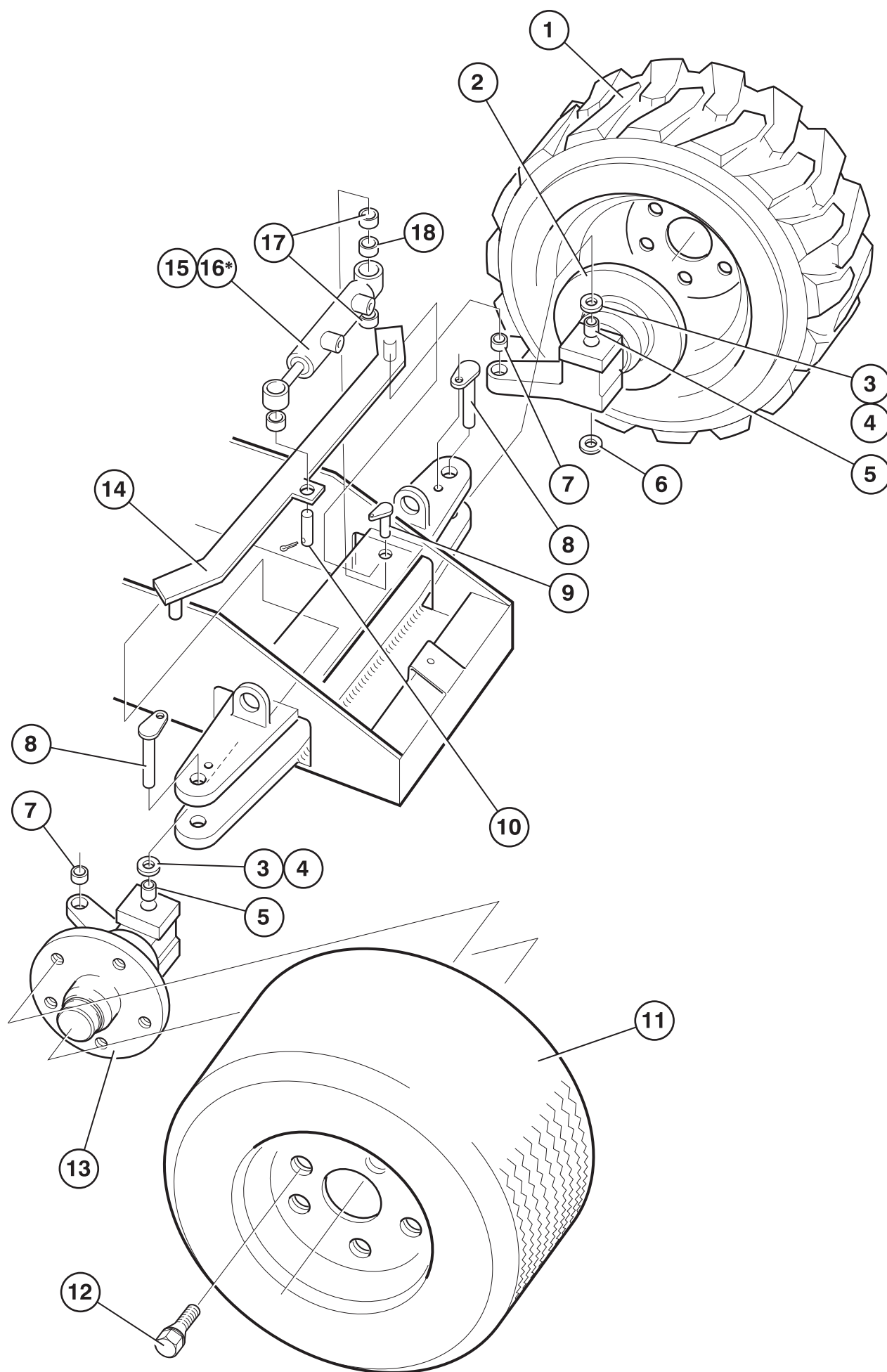
1.3 Steering assembly

Item	Description				Part Number
1	Wheel and tyre (Solid) HR10 LH HR10 RH Non-marking (all models)				P10603 P10698 P10833
2	Hub assembly LH See "Front hub assembly" on page 1-8.				P15361
3	Nitrotech washer				P12731
4	Bearing washer				P12732
5	Bush DU253230				P12421
6	Plastic washer				P10035
7	Bush DU1825				P11798
8	King pin				P10128
9	Steer pin				P11330
10	Steer pin				P11331
11	Wheel and tyre (Foam filled) HR12 Standard HR12 Non-marking				P11685 P21582
12	Wheel bolt (86Nm Torque)				P22001
13	Hub assembly RH See "Front hub assembly" on page 1-8.				P15362
14	Track Rod - HR12 Narrow/HR10 HR12 Wide				P11309 P11342
15	Steer cylinder				P11313
16 *	Seal kit for item 15				P12499
17	Spacer				P11800
18	Bush DU1820				P11366

* Not illustrated

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chassis assembly



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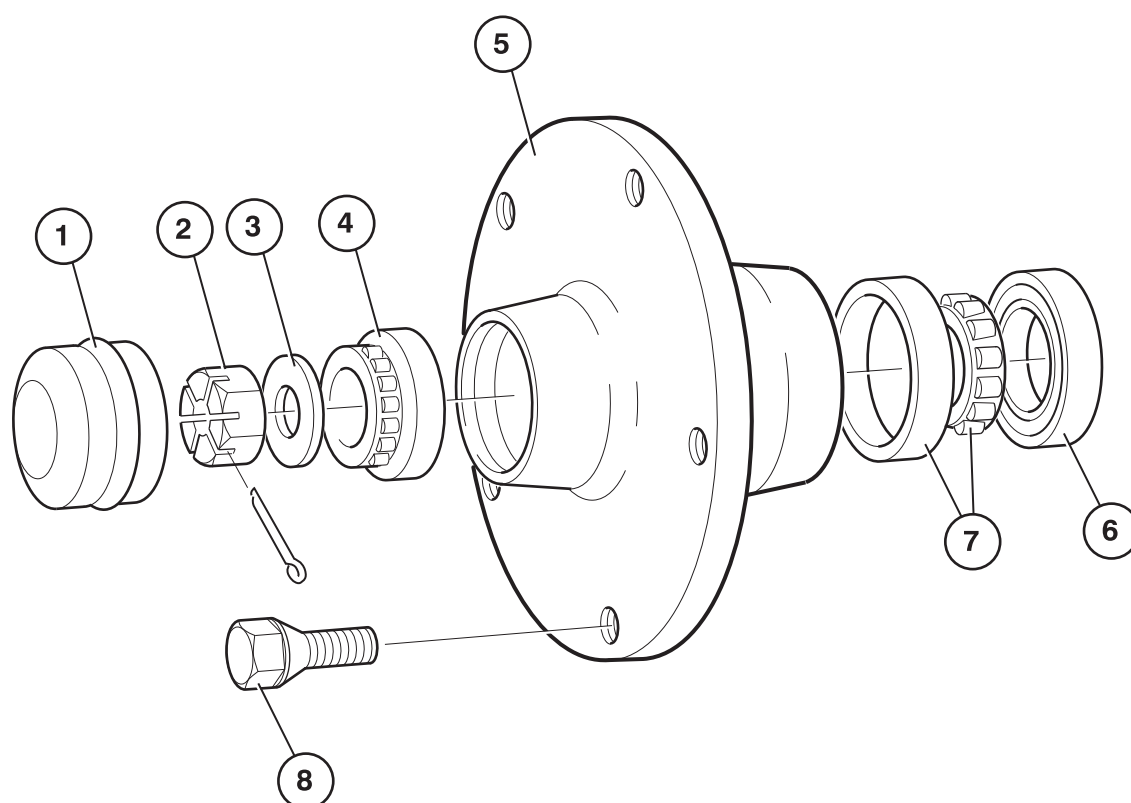
Figure 1.3 Steering assembly

1.4 Front hub assembly

Item	Description				Part Number
1	Grease cap				P15450
2	Hub nut				P15452
3	Hub washer				P15451
4	Outer bearing				P15449
5	Hub				P18938
6	Oil seal				P15447
7	Inner bearing				P15448
8	Wheel bolt (86 Nm)				P22001

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1-9

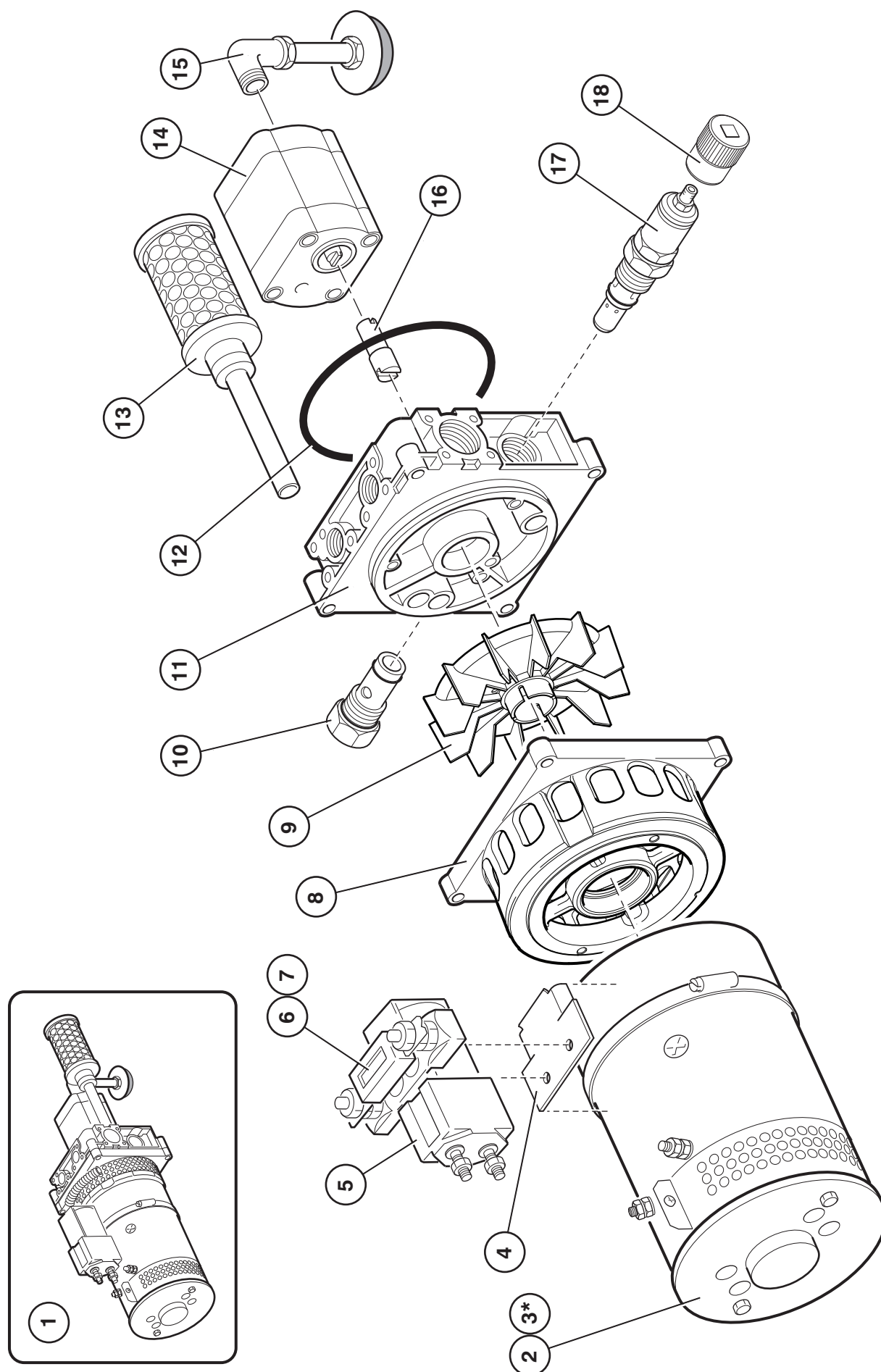
1.5 Power pack

Item	Description				Part Number
1	Power pack assembly 1.2cc 2.2cc				P16210 P16211
2	Motor				P16611
3 *	Brush & Spring Set for item 2 ISKRA HYDR-APP				P21151 P16703
4	Contactor plate				P16315
5	Contact solenoid - 12v (Bi-energy) 24v (DC only)				P11877 P12922
6	Fuse - 225A				P11977
7	Fuse holder				P24708
8	Flange - Motor				P18153
9	Fan blade				P22610
10	Check valve kit				P16614
11	Flange - Centre				P16612
12	O-ring				P16616
13	Filter - Return line				P16734
14	Pump - 1.2cc 2.2cc				P18172 P16699
15	Filter - suction				P16700
16	Coupling				P20063
17	Relief valve kit				P16613
18	Cap				P16615

* Not illustrated

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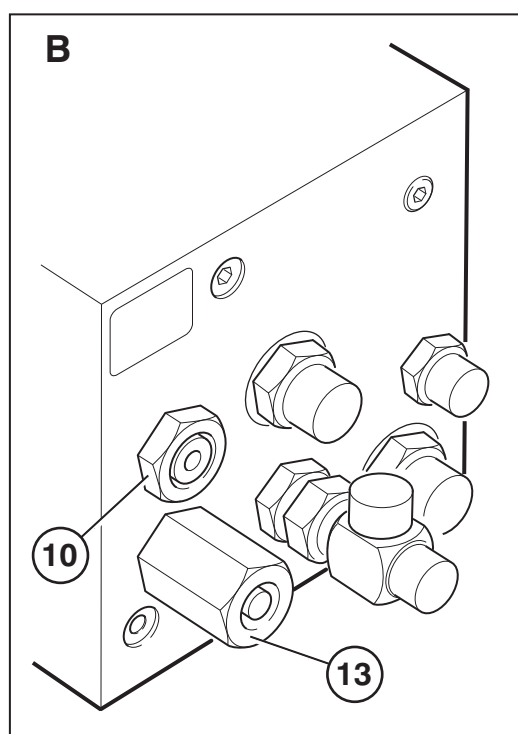
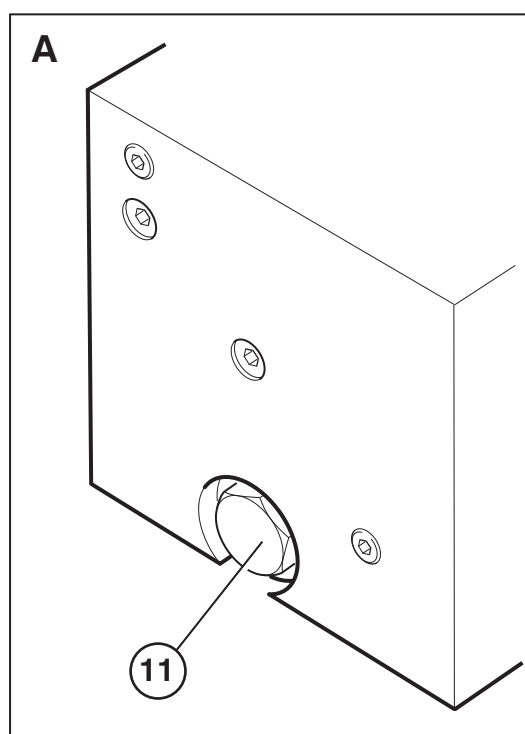
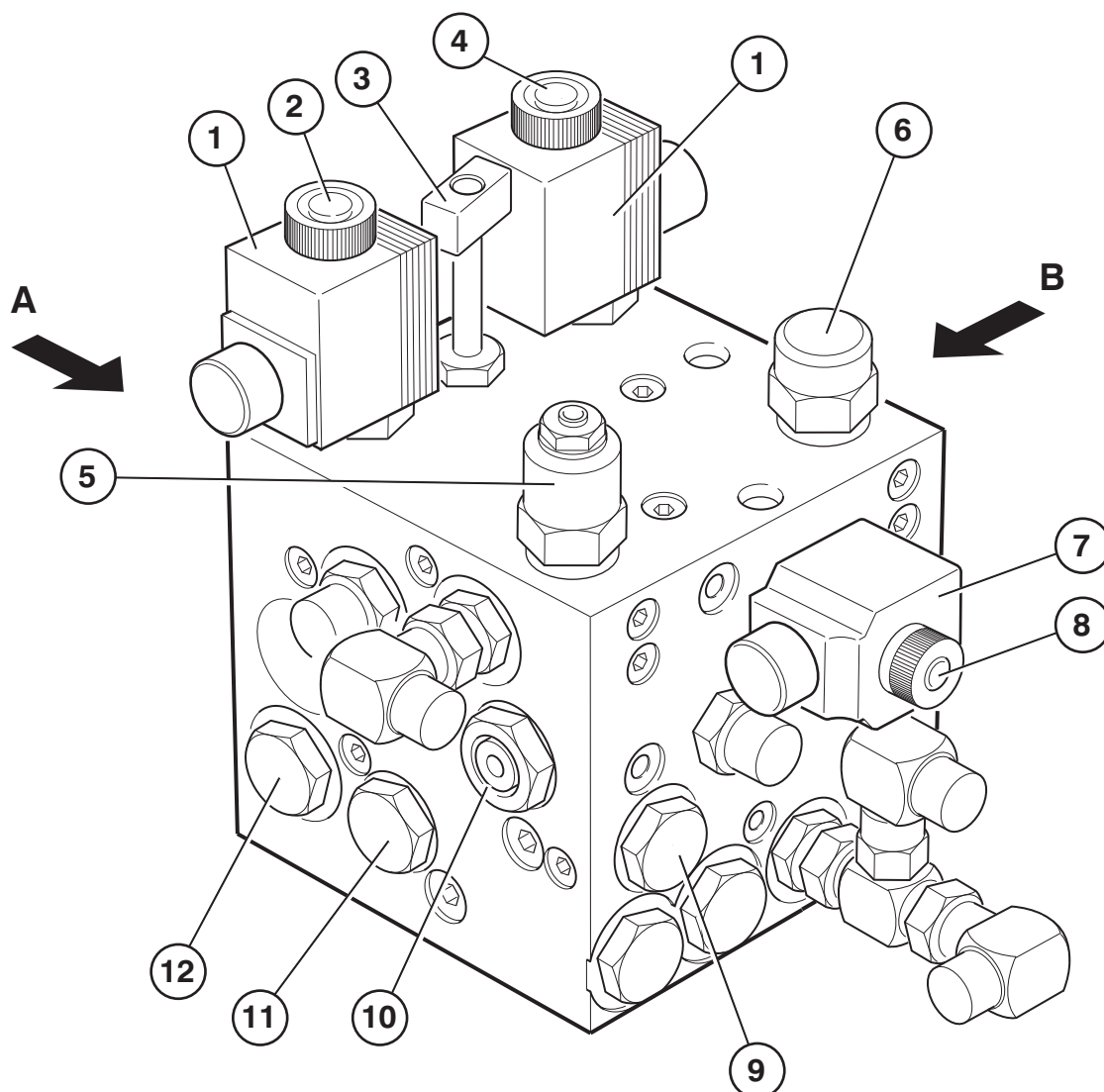
chassis assembly

1.6 Drive control valve

Item	Description				Part Number
	Complete assembly				P19617
1	Coil - Diverter solenoid				P15697
2	Diverter solenoid CT5				P19338
3	Brake release valve CT7				P15705
4	Diverter solenoid CT1				P19338
5	Overcentre valve CT8				P15706
6	Overcentre valve CT9				P19622
7	Coil - 12v brake solenoid 24v brake solenoid				P15696 P15307
8	Brake solenoid CT13				P16775
9	Check valve CT21				P12810
10	Check cartridge CT10 & CT11				P15707
11	Check valve CT17 & CT18				P15709
12	Flow divider CT3				P16776
13	Indicator valve CT20				P16777

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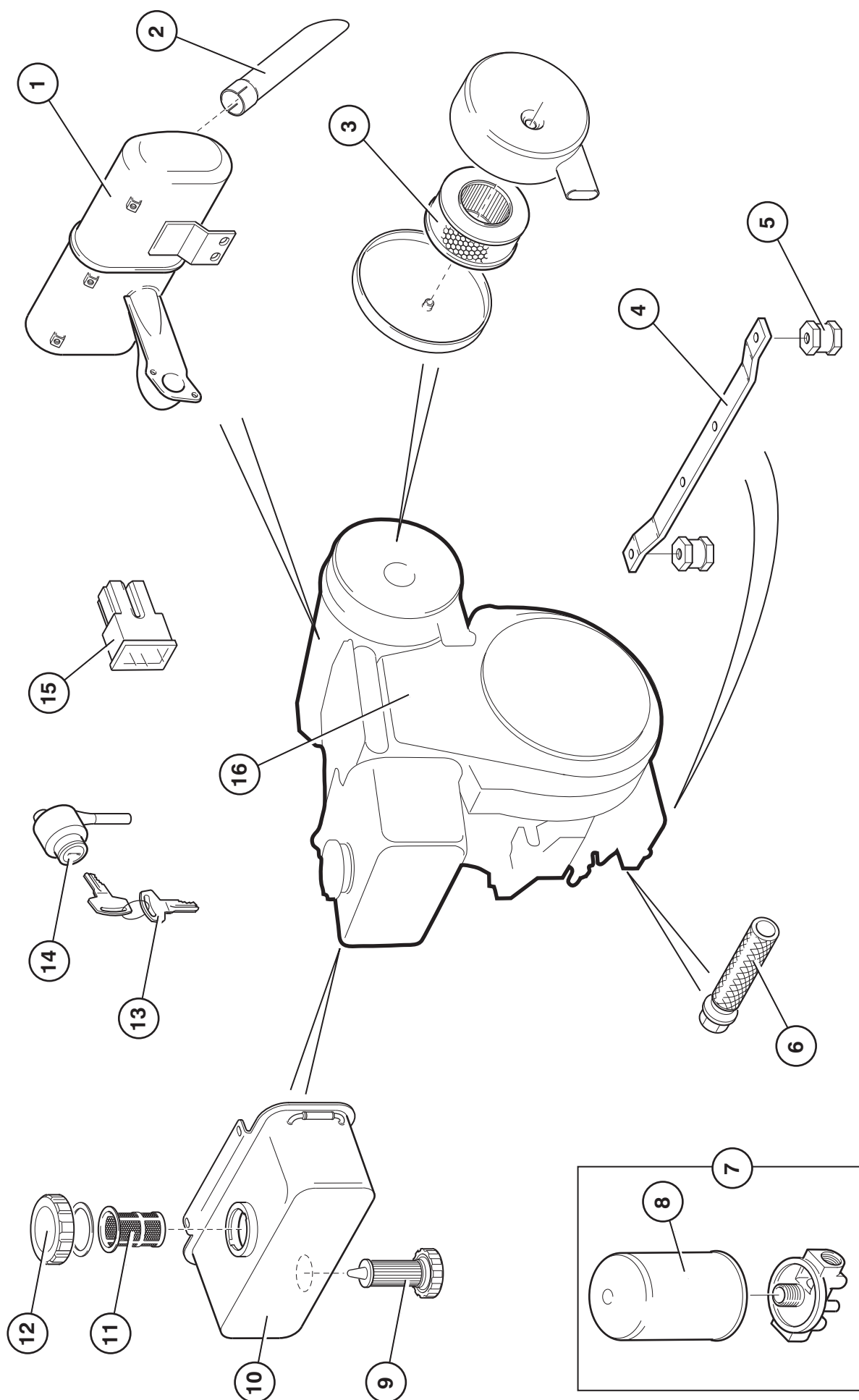
1-13

1.7 Diesel engine (Part 1)

Item	Description				Part Number
1	Muffler assembly - OC60 OC95				P13687 P13688
2	Exhaust pipe				P12243
3	Air filter - OC60 OC95				P11647 P12303
4	Engine mount bracket - OC60 OC95				P12808 P12239
5	Engine mount - rubber				P12238
6	Gauze oil filter				P13335
7	Oil filter and bowl assembly				P10137
8	Cartridge - hydraulic oil filter				P10766
9	Fuel filter - OC60 OC95				P13336 P13334
10	Fuel tank assembly OC60 OC95				P15415 P13881
11	Gauze fuel filter				P13284
12	Filler cap				P15505
13	Starter key (Pair)				P11646
14	Starter switch assembly				P12763
15	Fuse				P14197
16	Diesel engine - OC60 OC95				P20623 P20624

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1-15

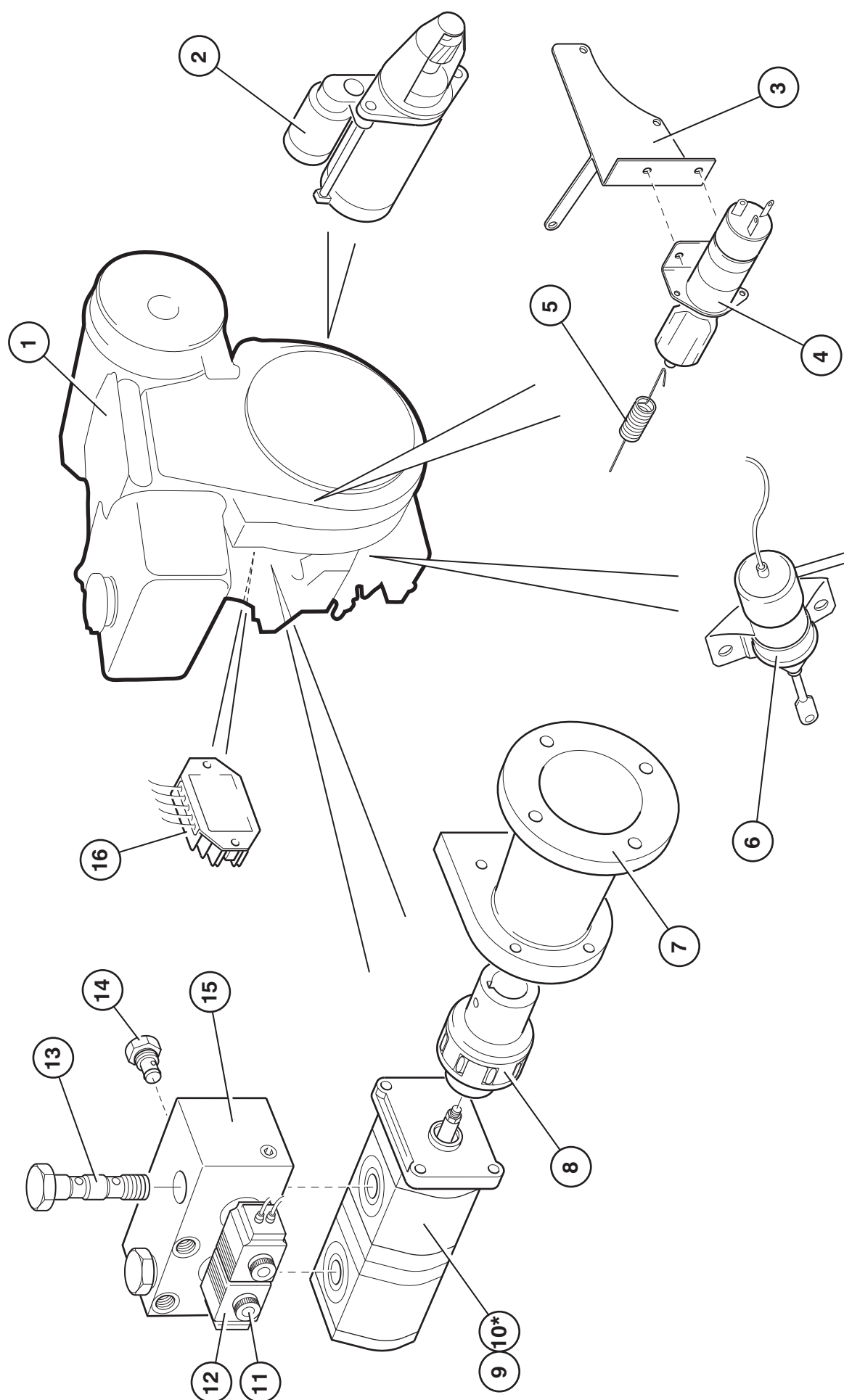
1.8 Diesel engine (Part 2)

Item	Description	Part Number			
1	Diesel engine - OC60 OC95				P20623 P20624
2	Starter motor assy - OC60 OC95				P11981 P13376
3	Bracket - Throttle (OC95 only)				P12220
4	Throttle solenoid				P12972
5	Spring				P11135
6	Stop solenoid				P70271
7	Bell housing				P11499
8	Coupling				P11500
9	Pump assembly - OC60 OC95				P11991 P12468
10 *	Seal kit for item 9				P13367
11	Valve cartridge - SH IH				P11927 P16775
12	Coil - SH IH				P11370 P17947
13	Banjo bolt				P11948
14	Check valve - SH IH				P11928 P17946
15	Manifold				P11943
16	Regulator				P12640

* Not illustrated

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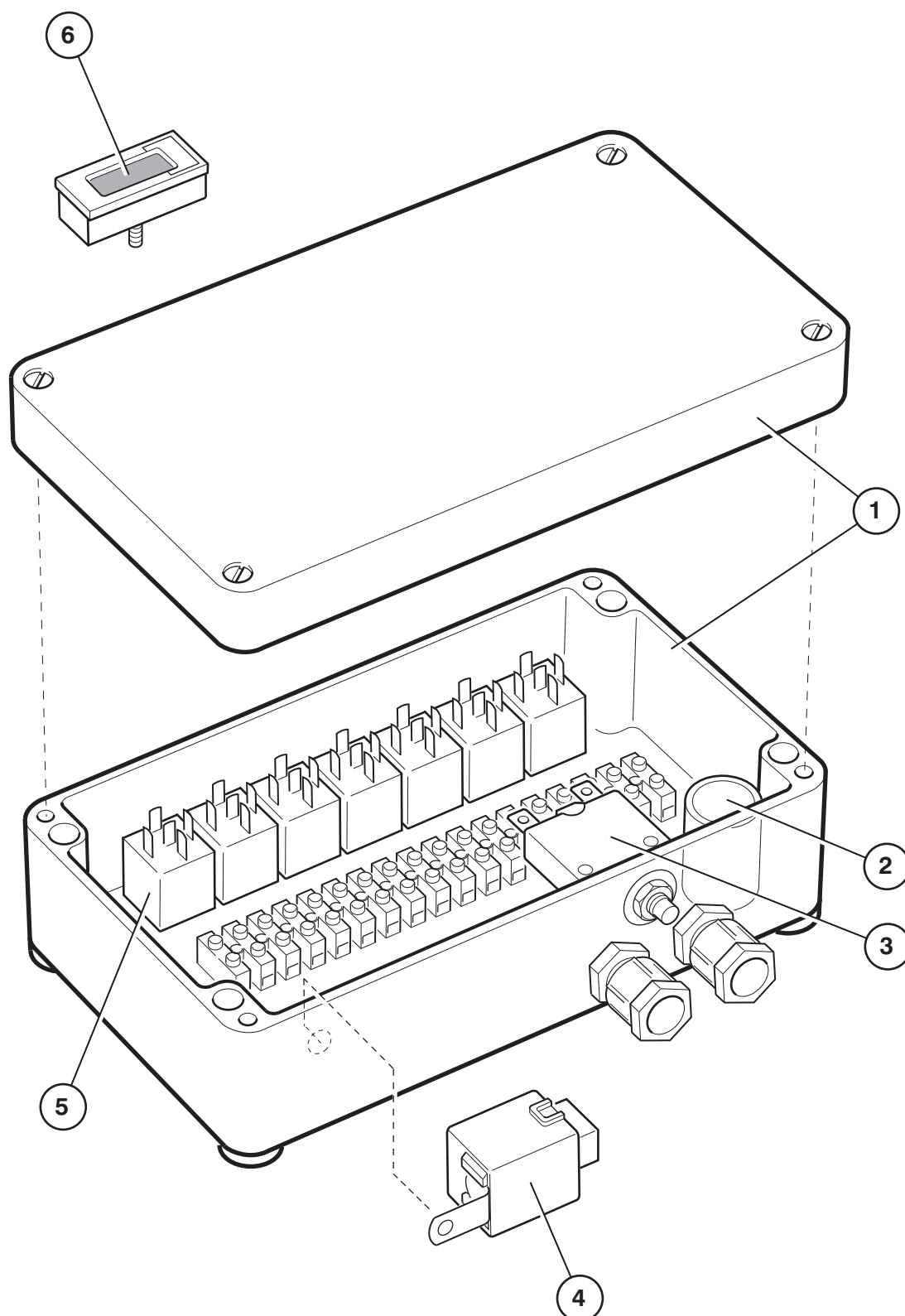
1-17

1.9 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)				P11410

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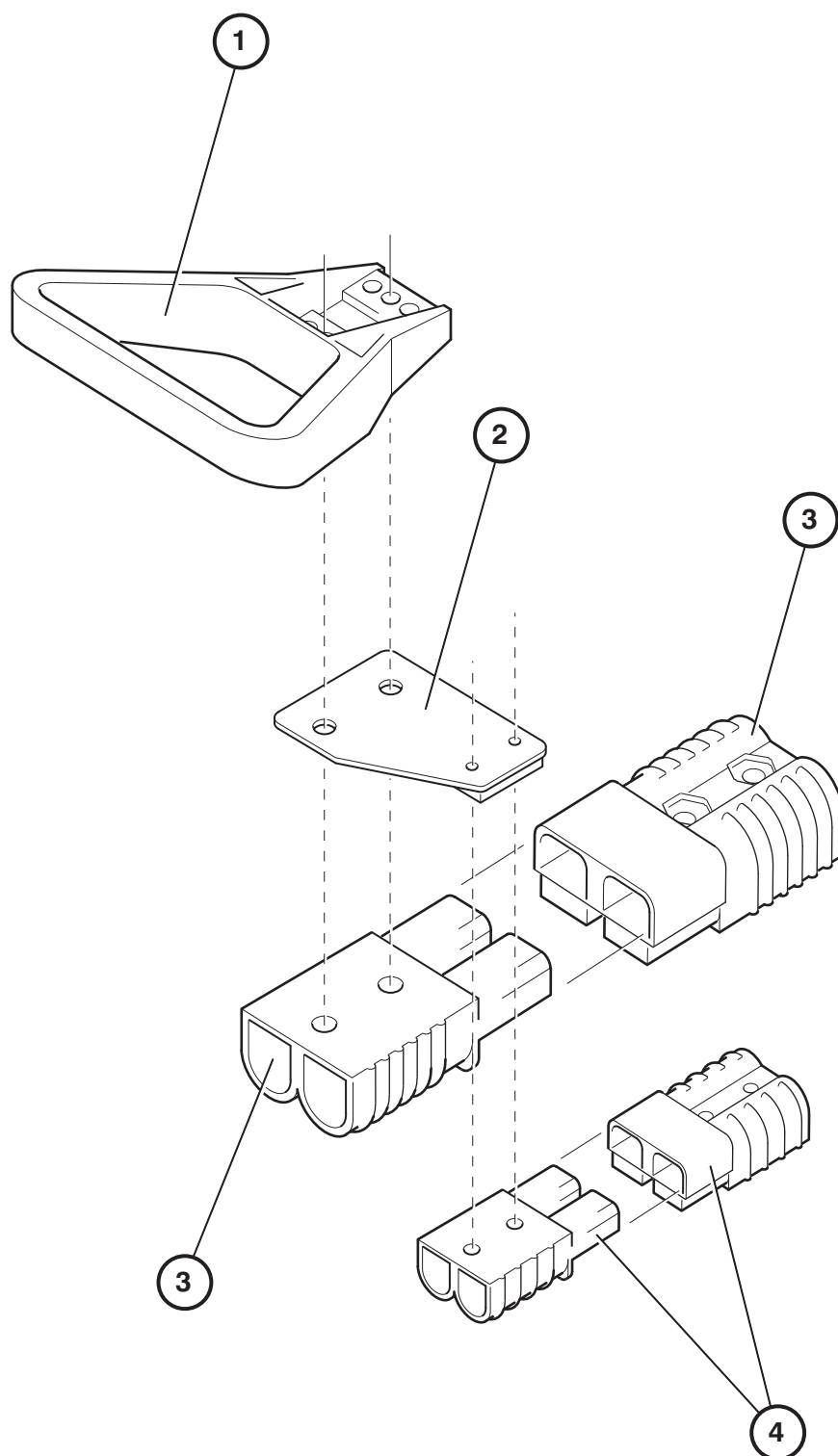
1-19

1.10 Anderson connector

Item	Description				Part Number
1	Handle				P17084
2	Mounting plate				P15271
3	Connector				P17083
4	Connector - 12v				P17085

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chassis assembly



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chassis assembly

1-21

Figure 1.10 Anderson connector



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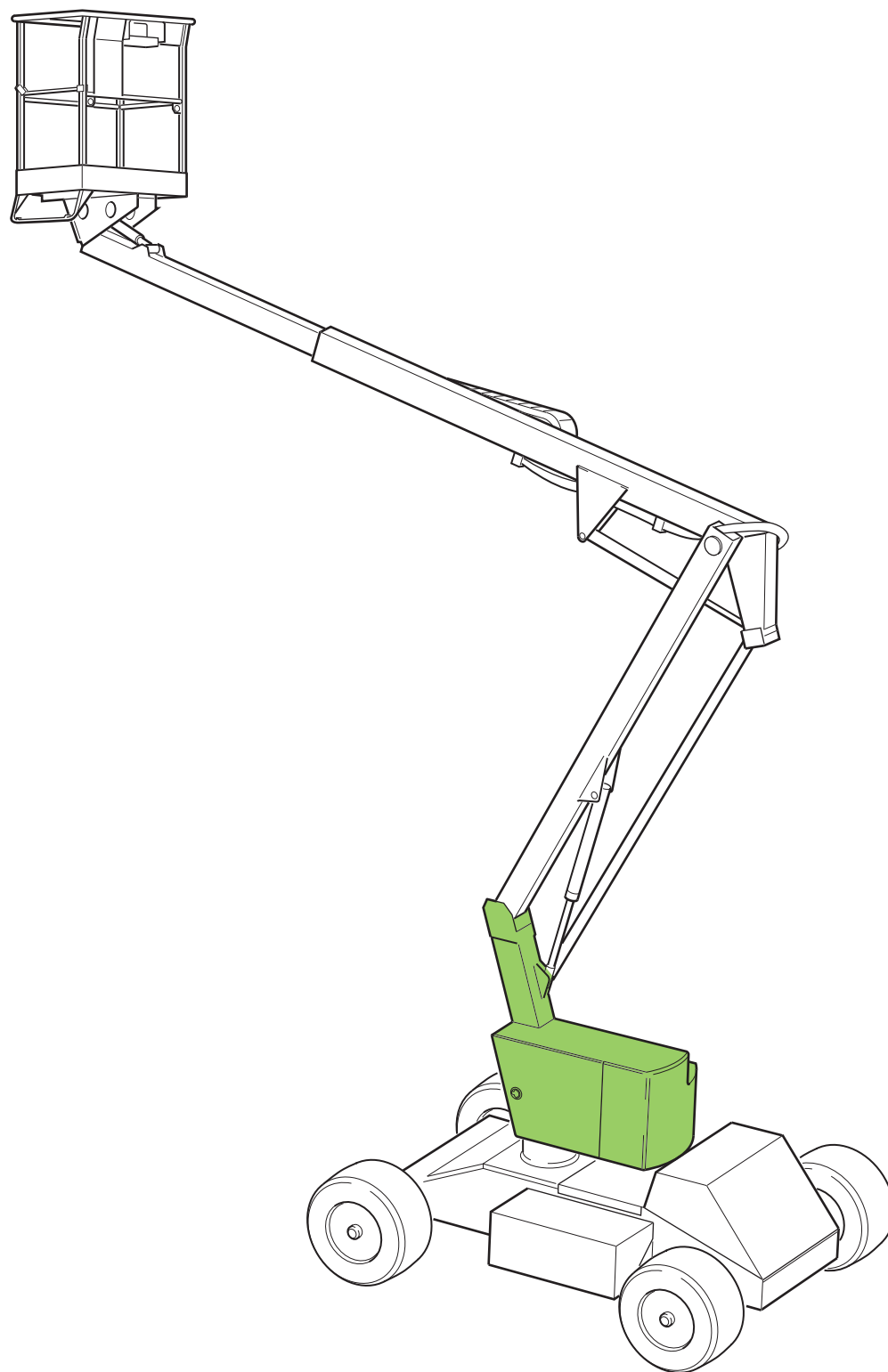
HR10/12 (SP26/34)

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Manuel illustré de pièces détachées

Illustrierte Stückliste

Manual de piezas ilustrado



2

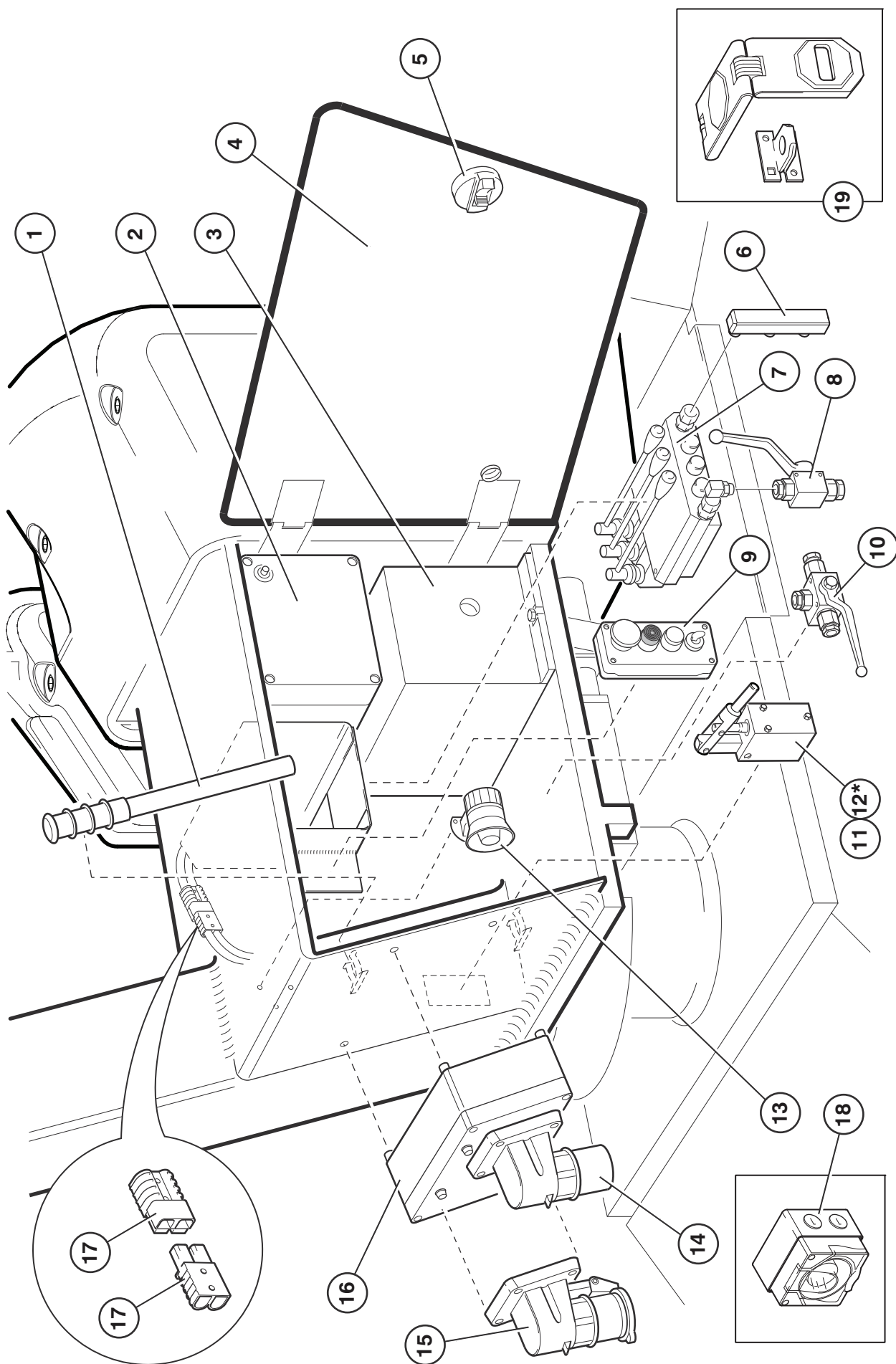
superstructure

french
german
spanish

2.1 Control station - Base

Item	Description				Part Number
1	Handle (Item 11)				P10624
2	Control box 12v 24v See "Control box" on page 2-12.				P17135 P17137
3	Battery Charger UK USA European See "Battery charger" on page 2-16.				P12759 P11751 P11067
4	Access cover				P20108
5	Door latch				P12397
6	Manifold				P24537
7	Control valve - See "Control valve assembly (3 spool)" on page 2-6. or "Control valve assembly (4 spool)" on page 2-8				P15514 P15518
8	Diverter valve (3/8") Lever ONLY				P10702 P14397
9	Button box - See "Button box assembly" on page 2-10.				N/A
10	Diverter valve (1/4") Lever ONLY				P16050 P14397
11	Manual hand pump				P22570
12 *	Seal kit for item 11				P22605
13	Siren				P11113
14	110v inlet ONLY				P23869
15	240v inlet ONLY				P23870
16	Dual voltage charger box - See "Dual voltage charger box" on page 2-14.				P10599
17	Anderson connector (12v)				P17085
18	Socket 110v/16A (Option)				P25082
19	Door hasp (Option)				P20836

* Not illustrated



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2.2 Slew assembly

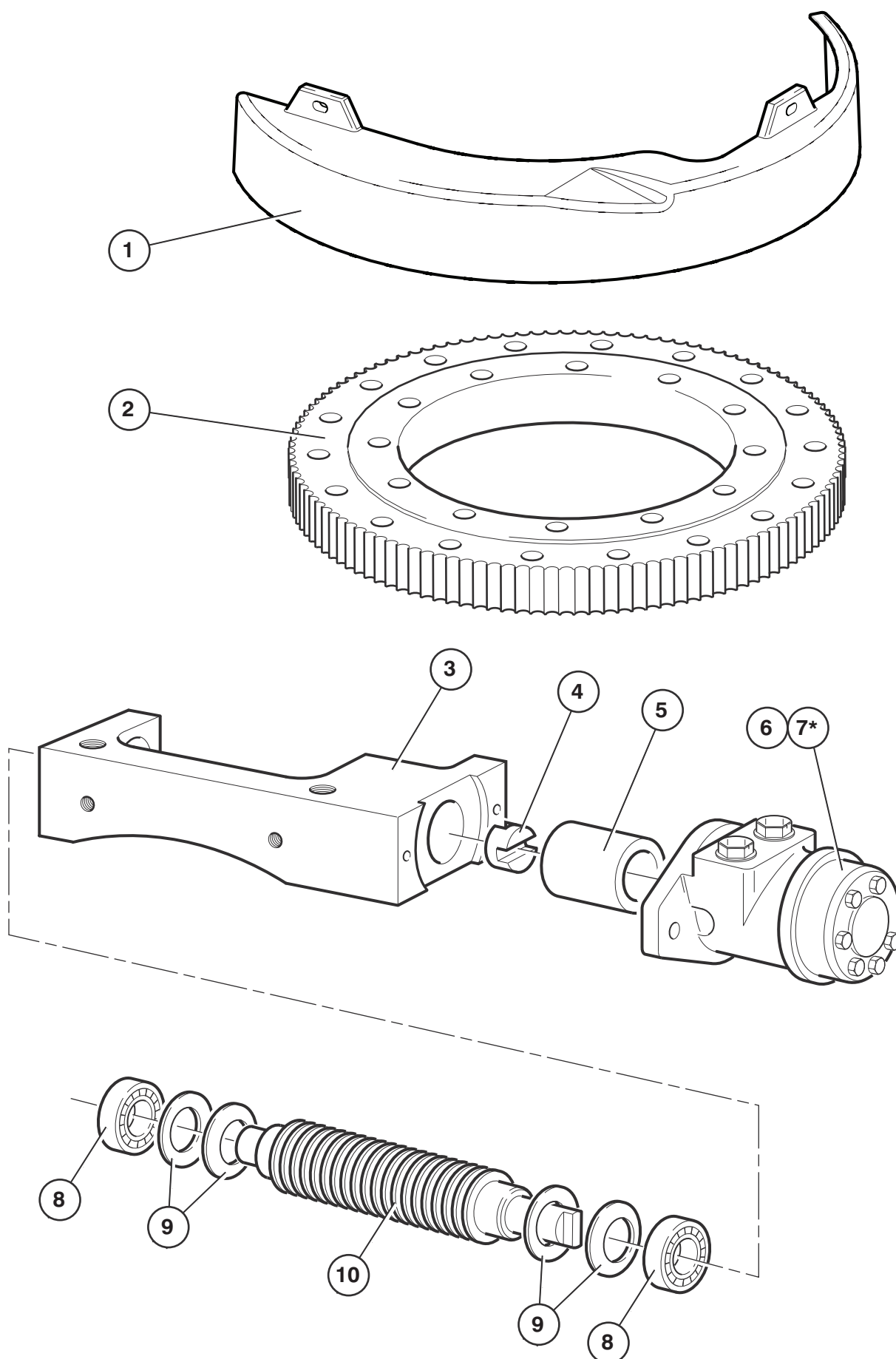
Item	Description				Part Number
	Complete assembly (Items 3 to 10)				P19498
1	Slew guard				P20084
2	Slew ring				P16817
3	Worm bracket				P12681
4	Coupling				P12145
5	Spacer				P12143
6	Motor				P14306
7 *	Seal kit for item 6				P13242
8	Bearing				P12703
9	Belleville washer				P12150
10	Worm gear				P14502

* Not illustrated

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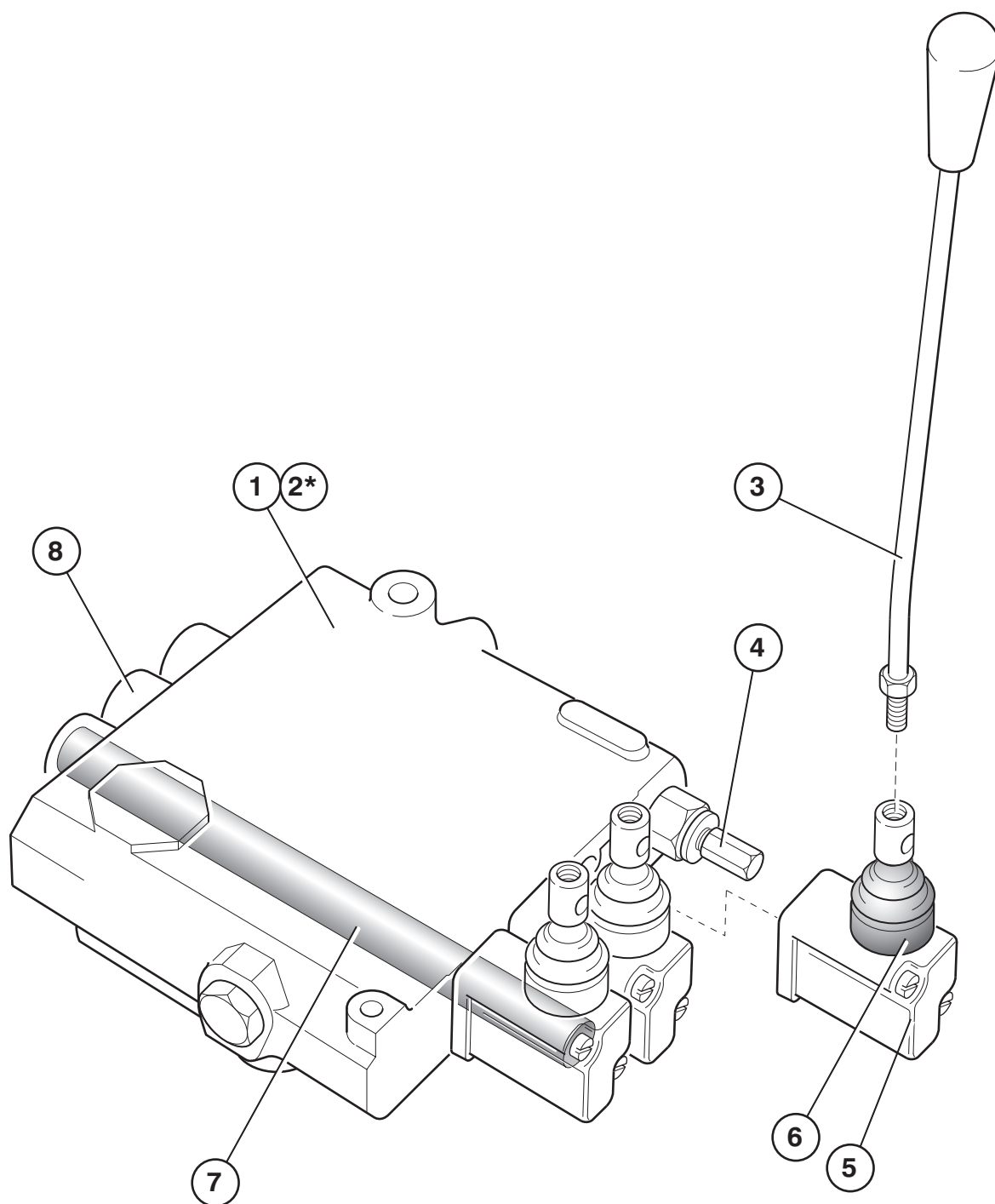
2.3 Control valve assembly (3 spool)

Item	Description				Part Number
1	Control valve - Gravity descent or double acting cylinders				P15514
	Non-gravity descent or single acting cylinders				P15515
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 AST				P15510 P15511
8	Spool return spring assembly				P16234

* Not illustrated

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2.4 Control valve assembly (4 spool)

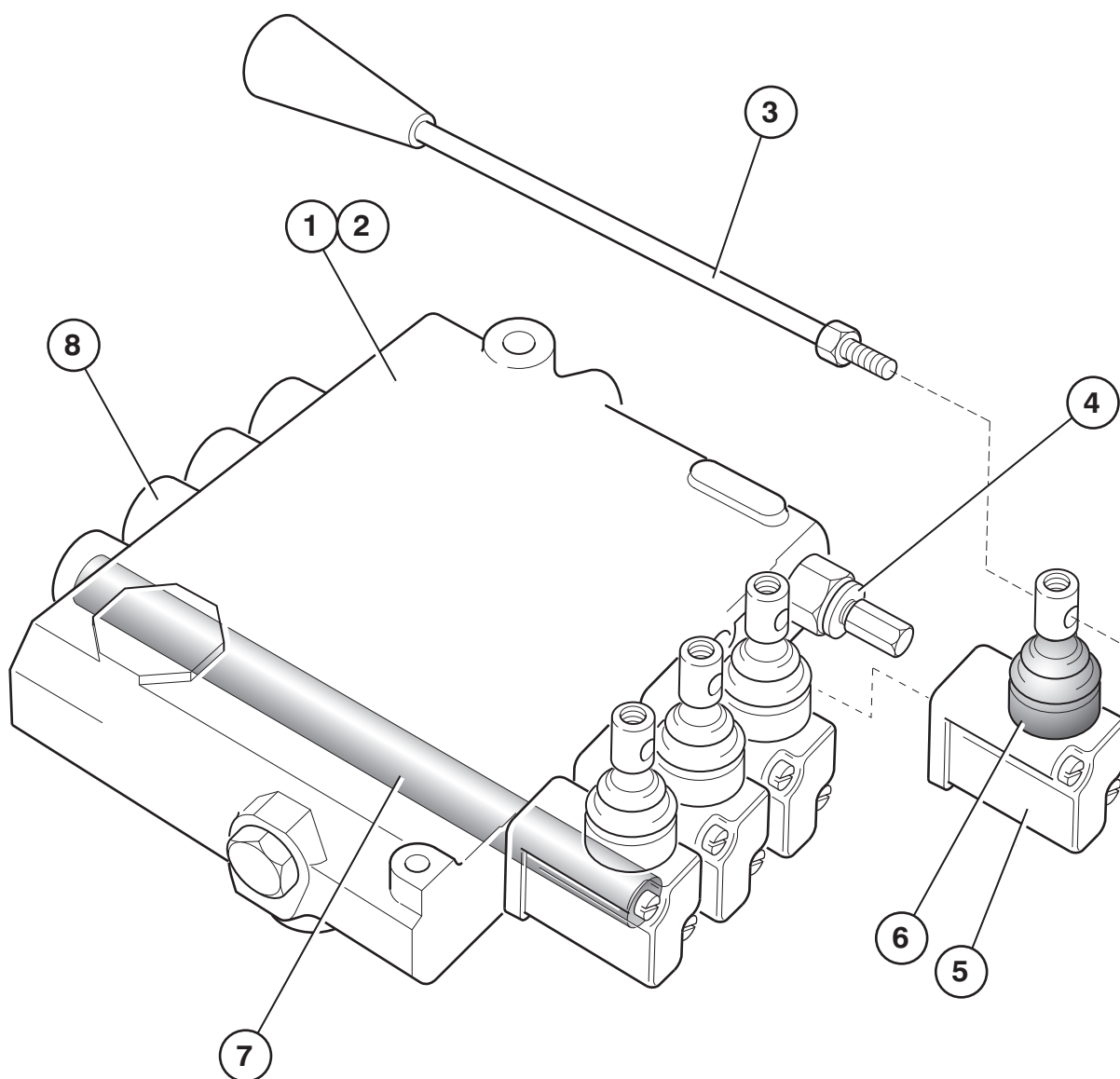
Item	Description				Part Number
1	Control valve				P15518
2 *	Seal kit for item 1				P70337
3	Lever				P70336
4	Pressure relief valve				P70335
5	Lever cap (complete)				P70338
6	Rubber boot				P12225
7	Spool AS AST				P15510 P15511
8	Spool return spring assembly				P16234

* Not illustrated

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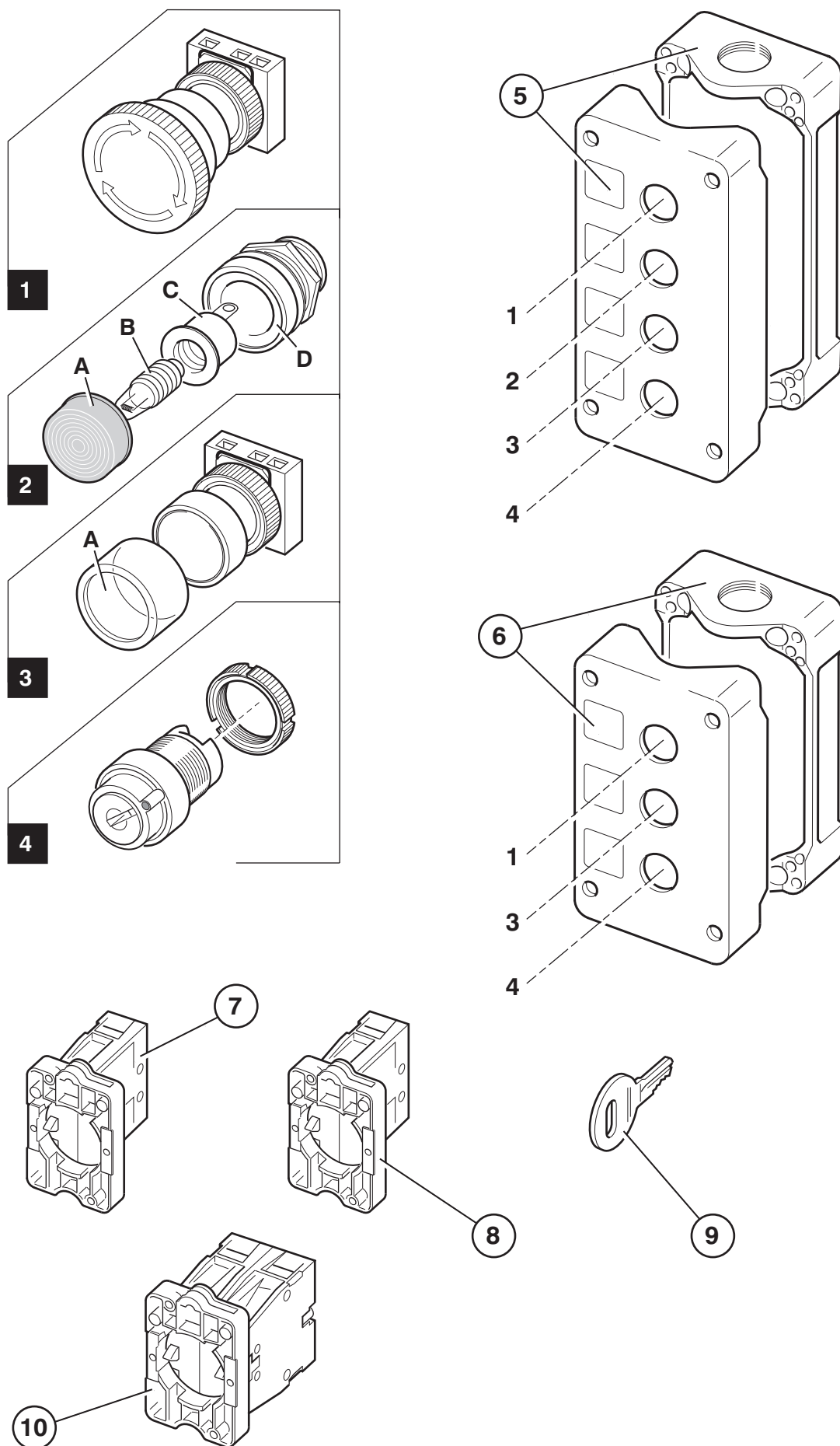
superstructure

2.5 Button box assembly

Item	Description				Part Number
1	E-Stop button USA Only				P10342 P21541
2	(A) Pilot light lens (B) Bulb (C) Lamp holder (D) Lamp housing				P11295 P11791 P11790 P14276
3	Green button (A) Rubber cover				P10075 P22414
4	Key switch - 455 key key locked in lower and upper position key removable in all positions				P10081 P10281
5	Button box - 4 hole				P22417
6	Button box - 3 hole				P22413
7	Contact - NC (Used with item 1)				P11839
8	Contact - NO (Used with item 3)				P11838
9	Key				P70187
10	Contact - Double NO (Used with item 4)				P11840

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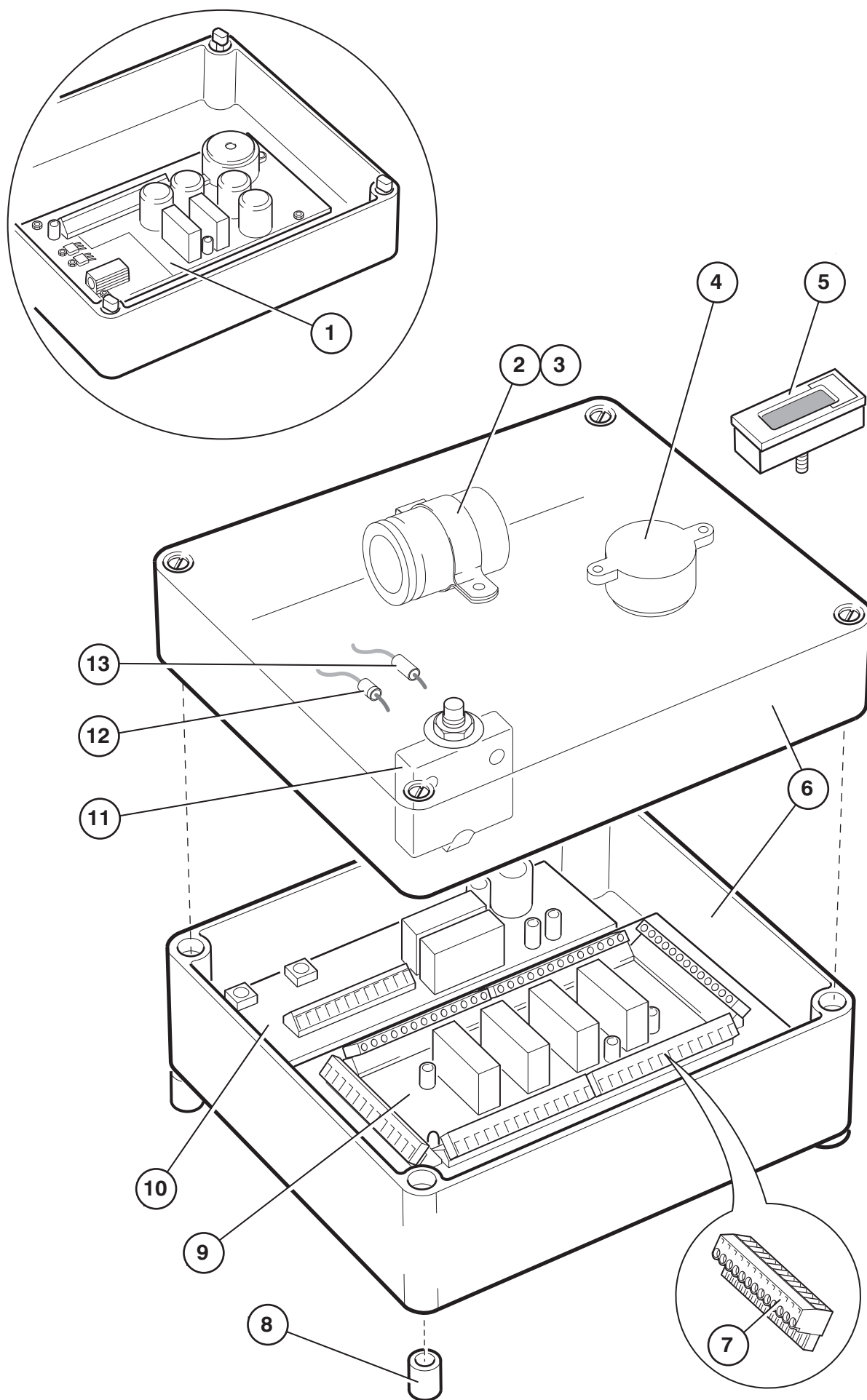
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2.6 Control box

Item	Description				Part Number
	Complete assembly 12v 24v USA/Aus Electric Diesel/Bi-energy				P17135 P17137 P16444 P16440
1	PCB - Pump (24v ONLY)				P14300
2	Capacitor (12v ONLY)				P15528
3	Clip				P15529
4	Sounder (12v ONLY)				P11112
5	Hour meter (OPTIONAL)				P11410
6	ABS box				P20368
7	Plug - 13-way				P12945
8	Nylon spacer				P11863
9	PCB - 12v 24v				P11175 P14297
10	PCB (Battery management) - 12v - 24v				P11174 P14298
11	Circuit breaker - 10A				P11719
12	Diode				P11179
13	Resistor (12v ONLY)				P11178

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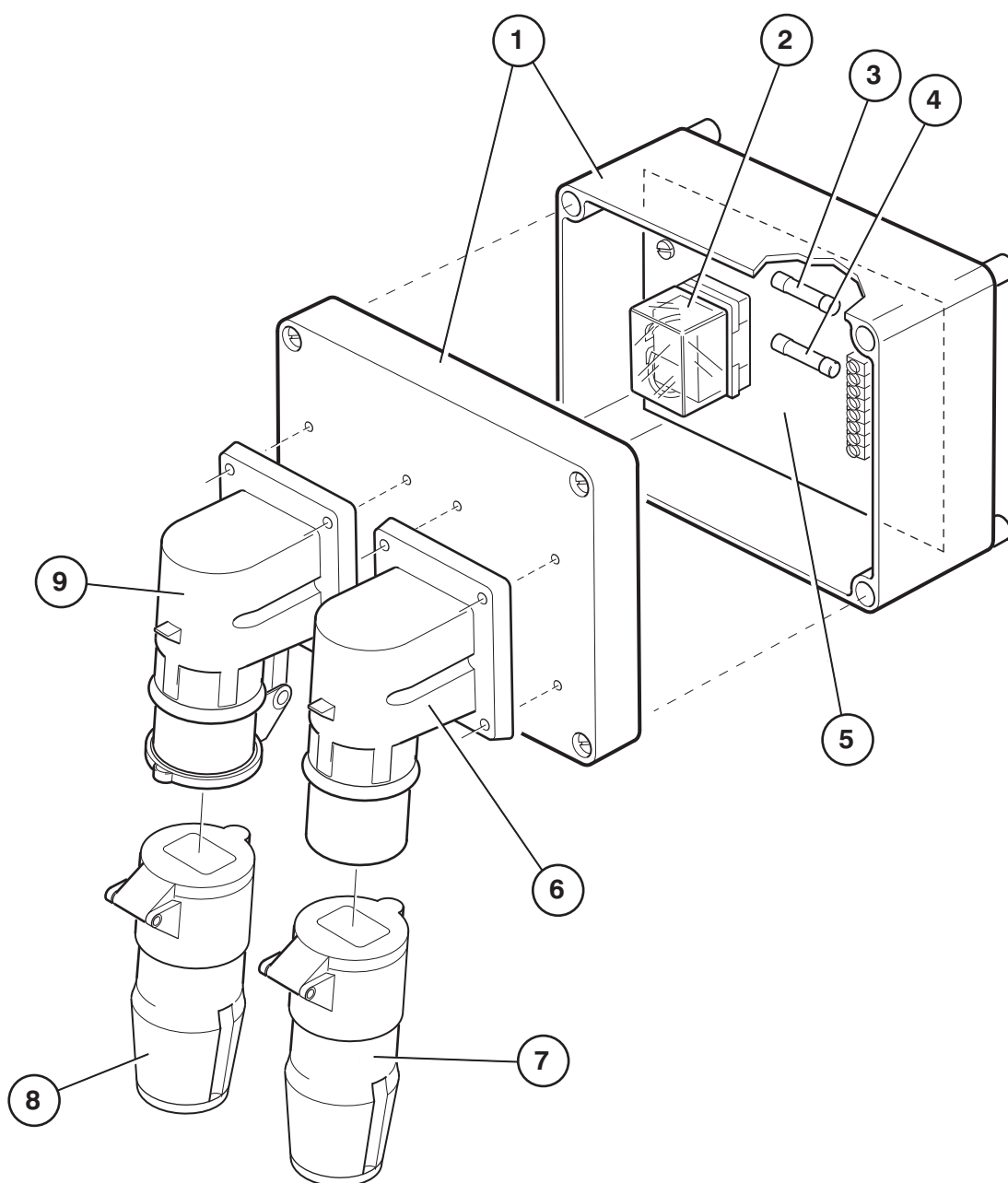


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2.7 Dual voltage charger box

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



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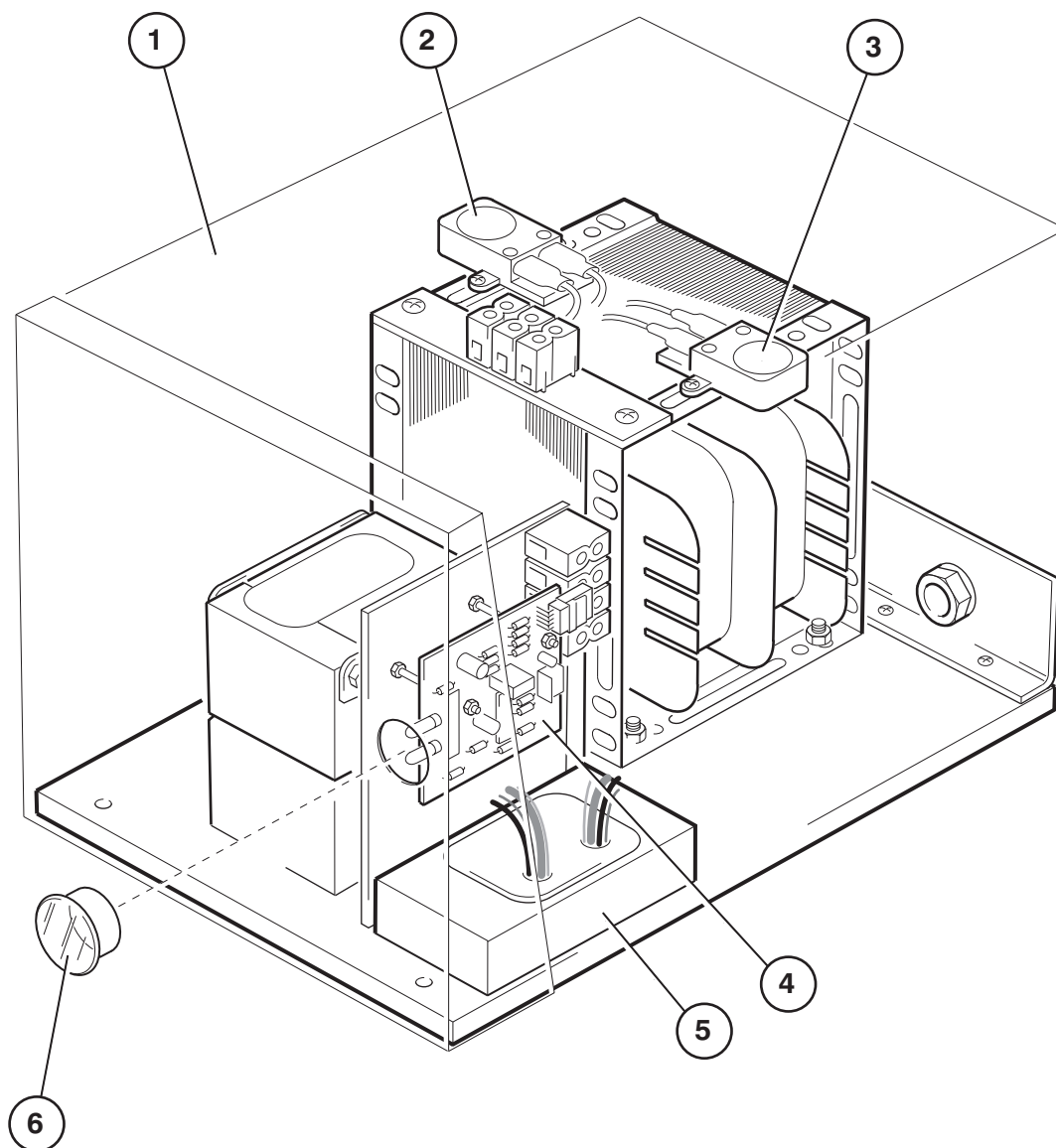
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2.8 Battery charger

Item	Description				Part Number
1	Charger assy UK USA European				P12759 P11751 P11067
2	Thermal cut-out - 110v (UK only)				P15268
3	Thermal cut-out - 240v (Euro only)				P15269
4	PCB				P11371
5	Thyristor module				P14993
6	Lens				P11104

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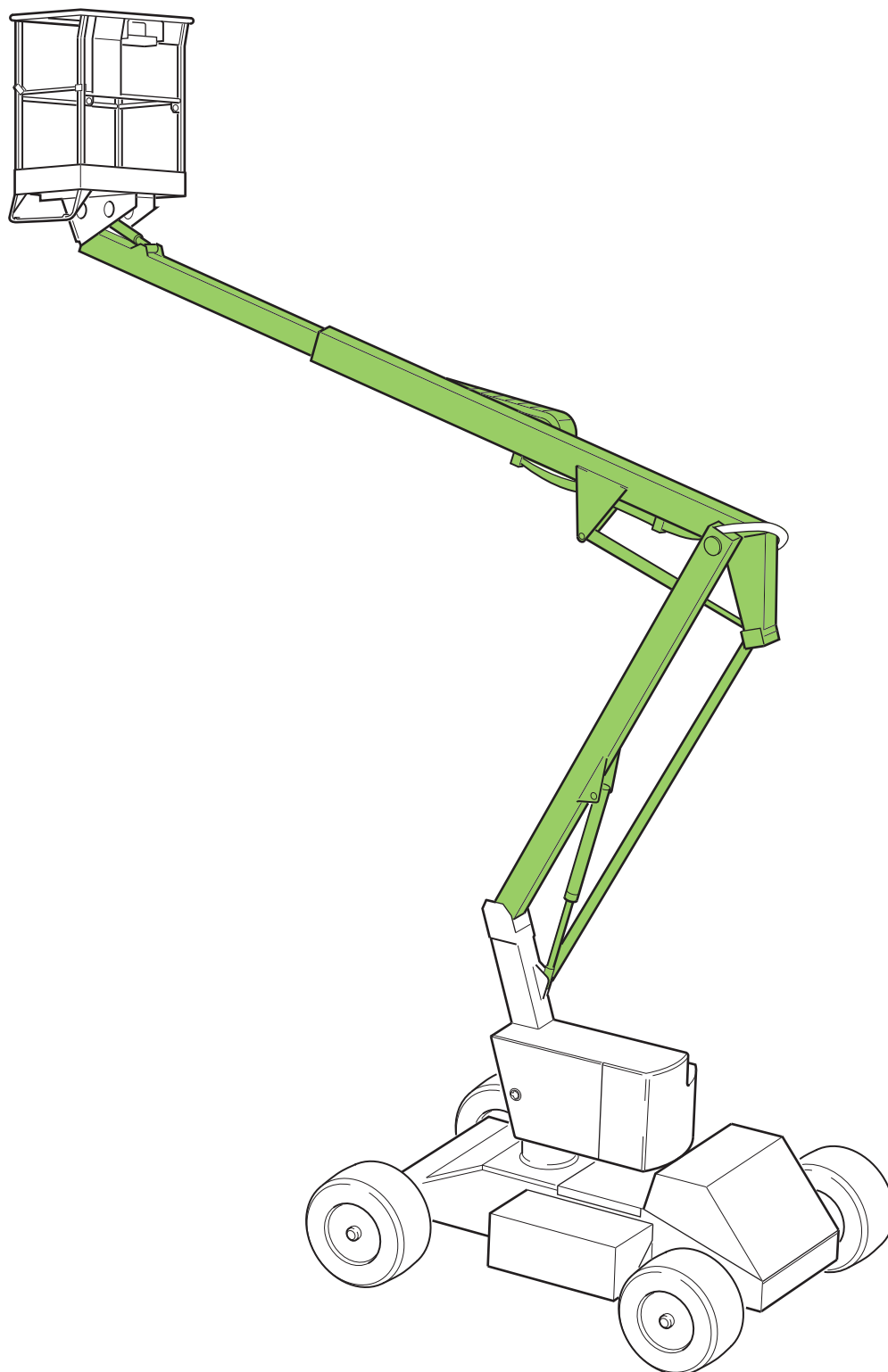
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boom assemblies

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3.1 HR10/SP26 Booms assembly

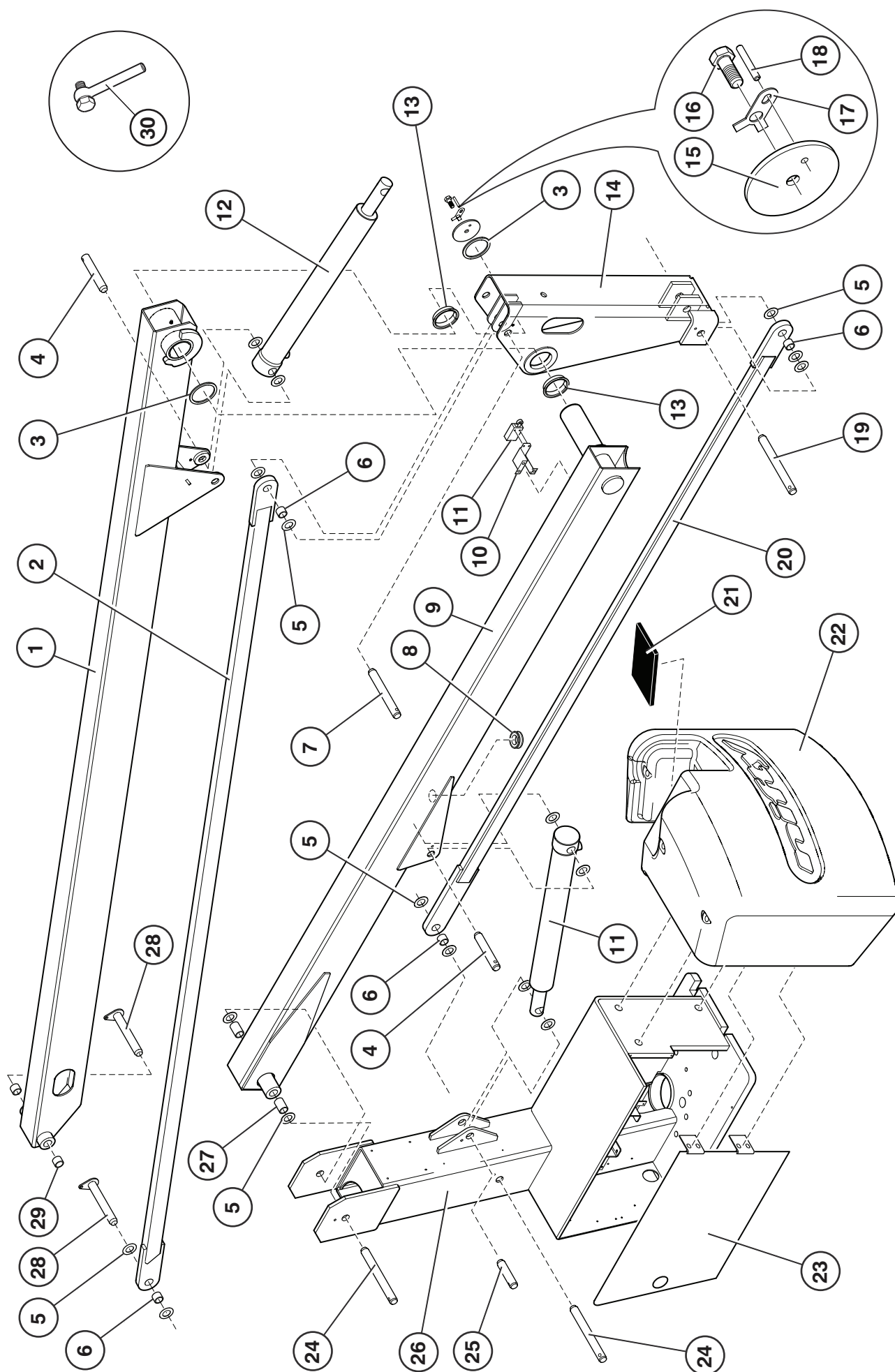
Item Description

Part Number

1	Boom 3				P20036
2	Levelling rod - Upper				P20047
3	Thrust washer				P12733
4	Pivot pin - 146mm				P12955
5	Plastic washer				P10035
6	Bush DU2520				P10032
7	Pivot pin - 200mm				P15950
8	Grommet				P17566
9	Boom 2				P20034
10	Bracket				P15306
11	Micro switch				P18150
12	Lift Cylinder See "HR10/SP26 Lift cylinder" on page 3-8.				P17989
13	Bush				P12719
14	Knuckle				P20045
15	End cap				P10037
16	Bolt for item 14				P70266
17	Tab washer				P17412
18	Roll pin				P70267
19	Pivot pin - 253mm				P19551
20	Levelling rod - Lower				P20048
21	Boom rest - rubber				P11010
22	Counterweight				P20041
23	Door				P20108
24	Pivot pin - 240mm				P19546
25	Pivot pin - 94mm				P12953
26	Boom 1				P20099
27	Bush DU25250				P10031
28	Pivot pin - 192mm				P10210
29	Bush DU2525				P10034
30	Swing bolt				P15966

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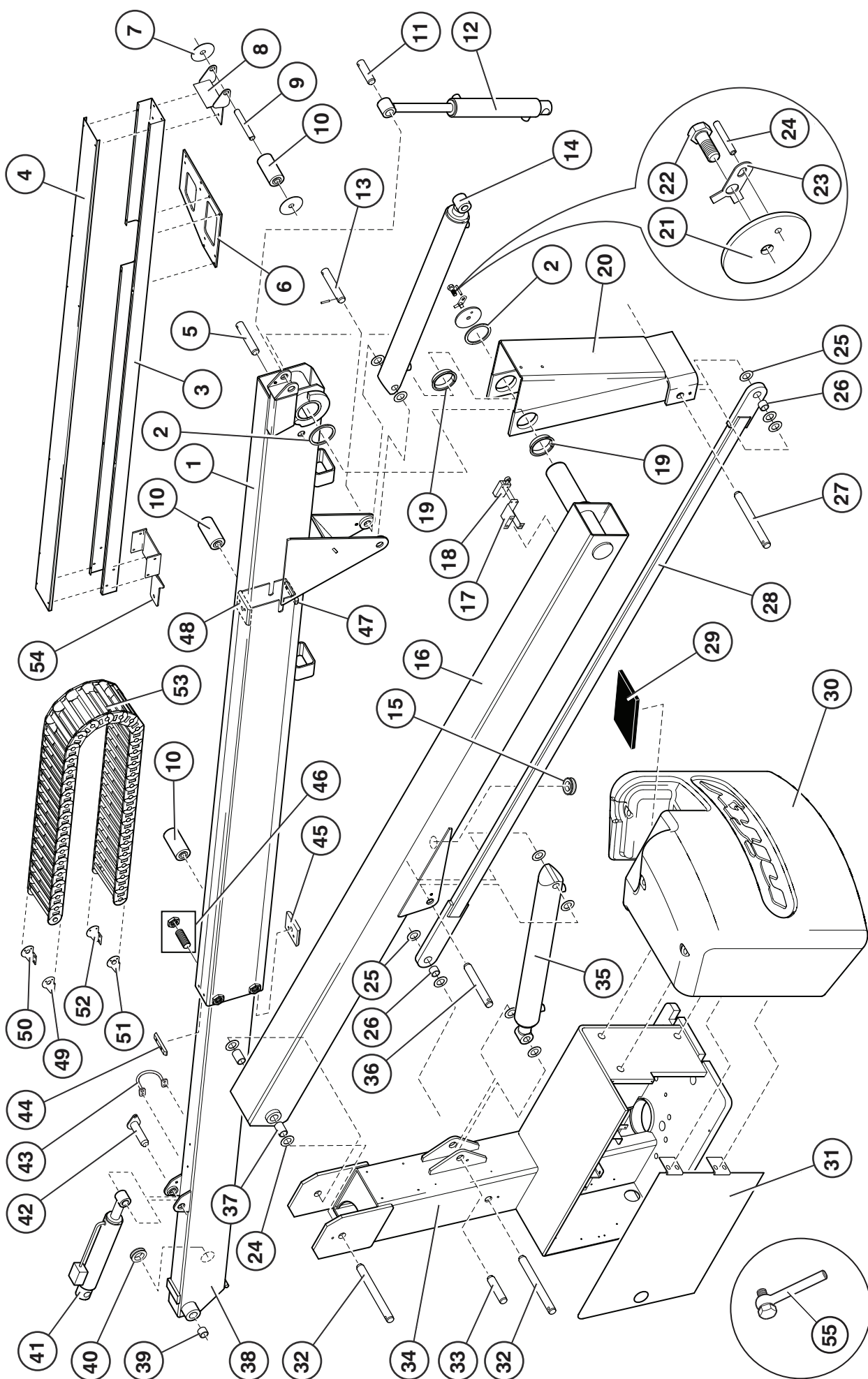
3.2 HR12/SP34 Booms assembly

Item	Description	Part Number
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1	Boom 3	P22611
2	Nylatron washer	P12733
3	Trunking	P20167
4	Lid - Trunking	P20168
5	Pivot pin - 127mm (Tele-cylinder)	P12952
6	Bracket (Trunking to tracking)	P12643
7	Washer guide	P18771
8	Bracket - Roller	P20169
9	Pin - Roller	P10682
10	Roller	P10680
11	Pivot pin - 85mm	P19550
12	Levelling cylinder See "Levelling cylinder" on page 3-12.	P11764
13	Pivot pin - 146mm Roll Pin	P12955 P17485
14	Lift cylinder See "HR12/SP34 Lift cylinder" on page 3-10.	P11256
15	Grommet	P11283
16	Boom 2	P20033
17	Bracket	P20563
18	Micro switch	P18150
19	Flanged bush	P12719
20	Knuckle	P20044
21	End cap	P10037
22	Bolt for item 21	P70266
23	Tab washer	P17412
24	Roll pin	P70267
25	Plastic washer	P10035
26	Bush DU2520	P10032
27	Pivot pin - 253mm	P19551
28	Levelling rod	P20048

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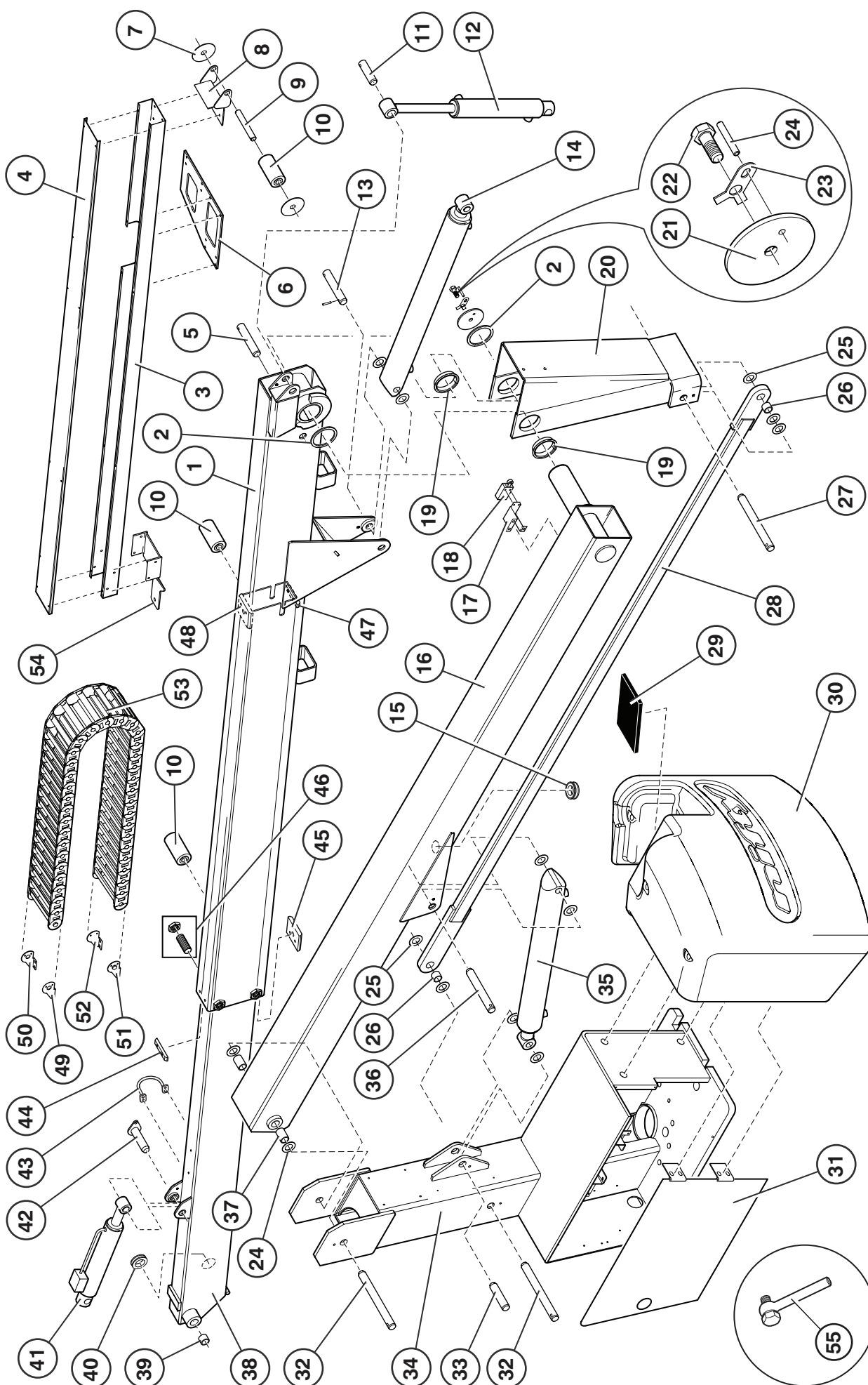
3-5

3.2 continued

Item	Description				Part Number
29	Boom rest - rubber				P11010
30	Counterweight <i>Wide</i> <i>Narrow</i>				P20042 P20040
31	Door				P20108
32	Pivot pin - 240mm				P19546
33	Pivot pin - 94mm				P12953
34	Boom 1				P20099
35	Lift cylinder See "HR12/SP34 Lift cylinder" on page 3-10.				P11255
36	Pivot pin - 200mm				P15950
37	Bush DU2550				P10031
38	Boom 4				P10423
39	Bush DU2525				P10034
40	Grommet				P17566
41	Levelling cylinder See "Levelling cylinder" on page 3-12.				P22974
42	Pivot pin - 95mm				P12899
43	Hose hoop				P11118
44	Wear pad				P15899
45	Wear pad (Black)				P22653
46	Nylatron stud Nut				P11436 P16312
47	Spacer				P10601
48	Wear pad (Red)				P10519
49	Upper bracket - Inner				P19230
50	Upper bracket - Outer				P19229
51	Lower bracket - Inner				P19228
52	Lower bracket - Outer				P19227
53	Hose tracking assy See "Energy chain" on page 3-16.				P19226
54	Bracket (Trunking to Boom 4)				P19915
55	Swing bolt				P15966

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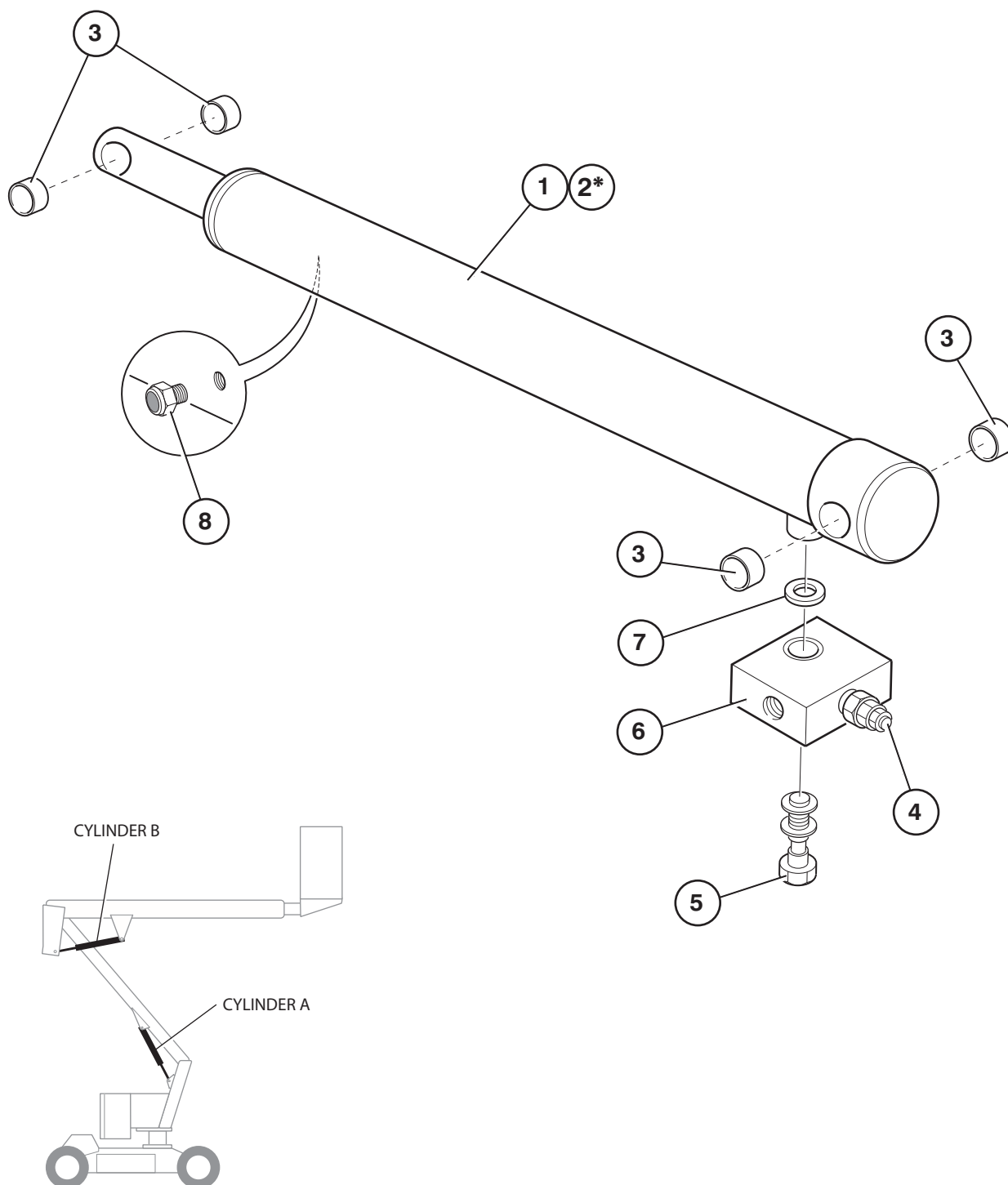
3.3 HR10/SP26 Lift cylinder

Item	Description				Part Number
1	Cylinder				P17989
2 *	Seal kit for item 1 Pre Oct 2005 Current				P70121 P18550
3	Bush DU2520				P10032
4	Load valve ONLY				P11956
5	Banjo bolt Cylinder A Cylinder B				P10087 P10527
6	Check valve assy				P12403
7	Dowty washer				P70126
8	Sintered breather				P16331

* Not illustrated

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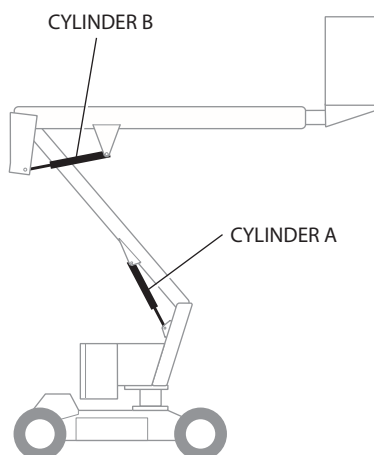
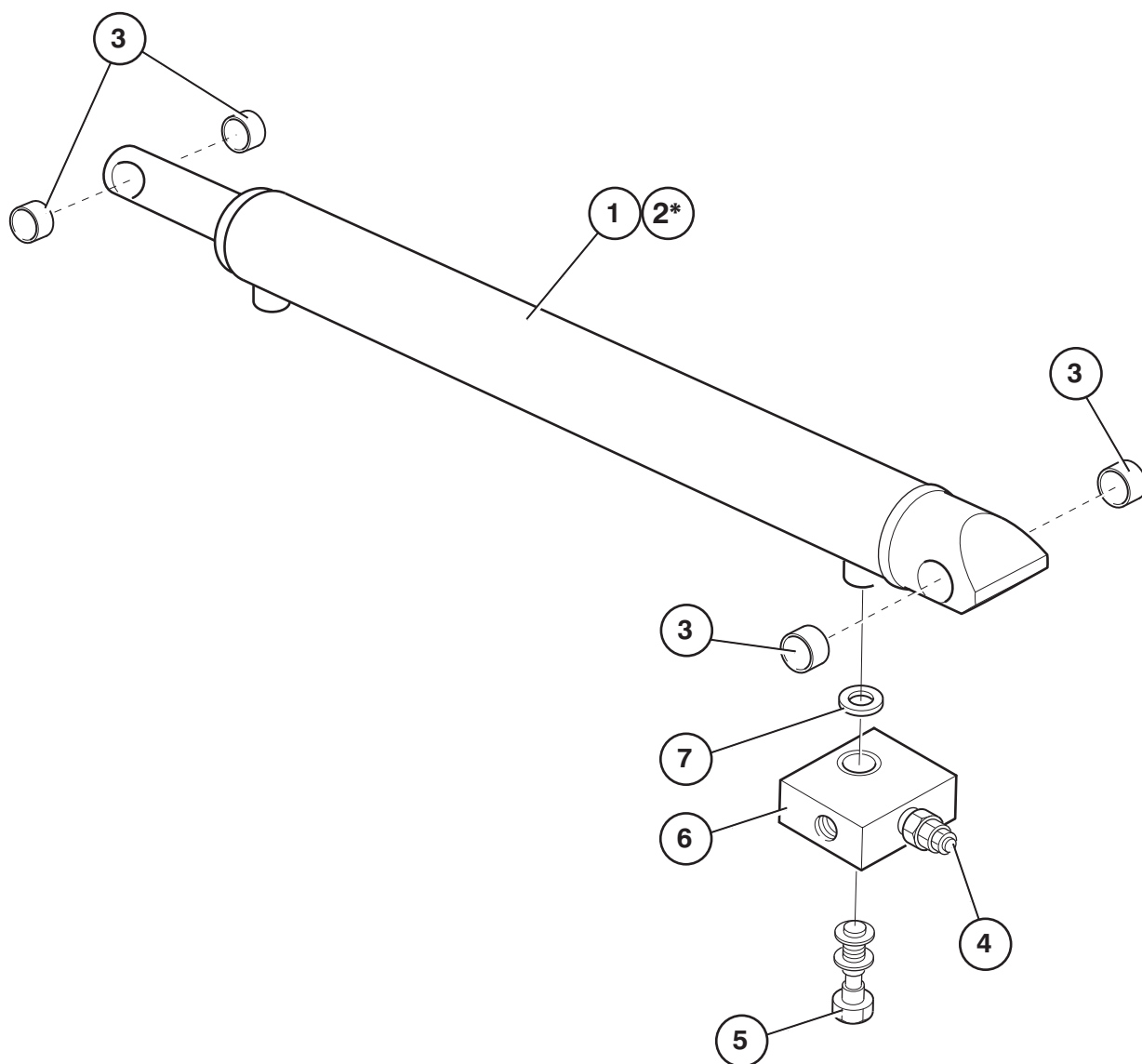
boom assemblies

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3.4 HR12/SP34 Lift cylinder

Item	Description	Part Number			
1	Cylinder - A B				P11255 P11256
2 *	Seal kit for item 1				P11369
3	Bush DU2520				P10032
4	Load valve ONLY				P11956
5	Banjo bolt - Cylinder A Cylinder B				P10267 P10527
6	Check valve assy				P12403
7	Dowty washer				P70126

* Not illustrated



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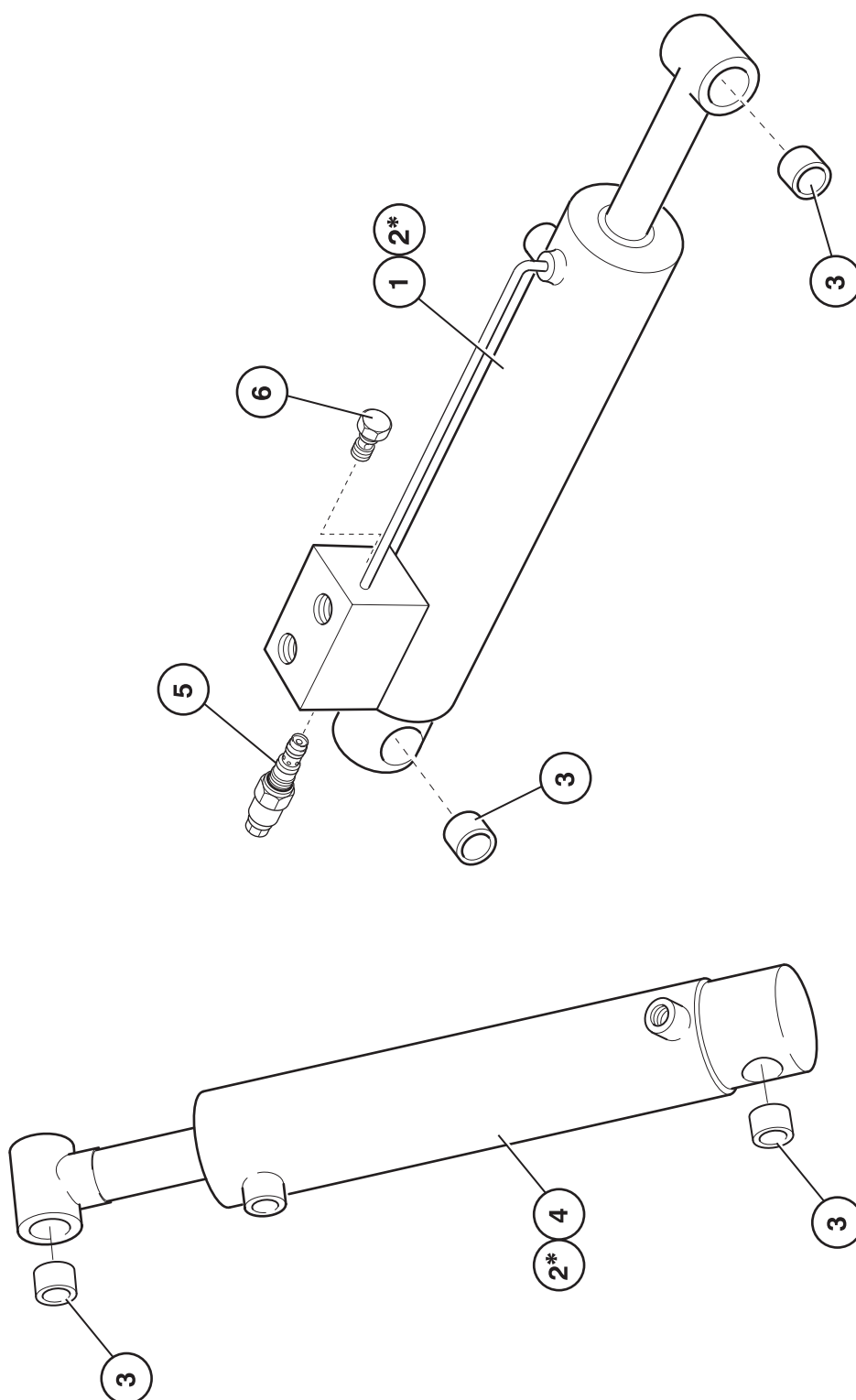
boom assemblies

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3.5 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



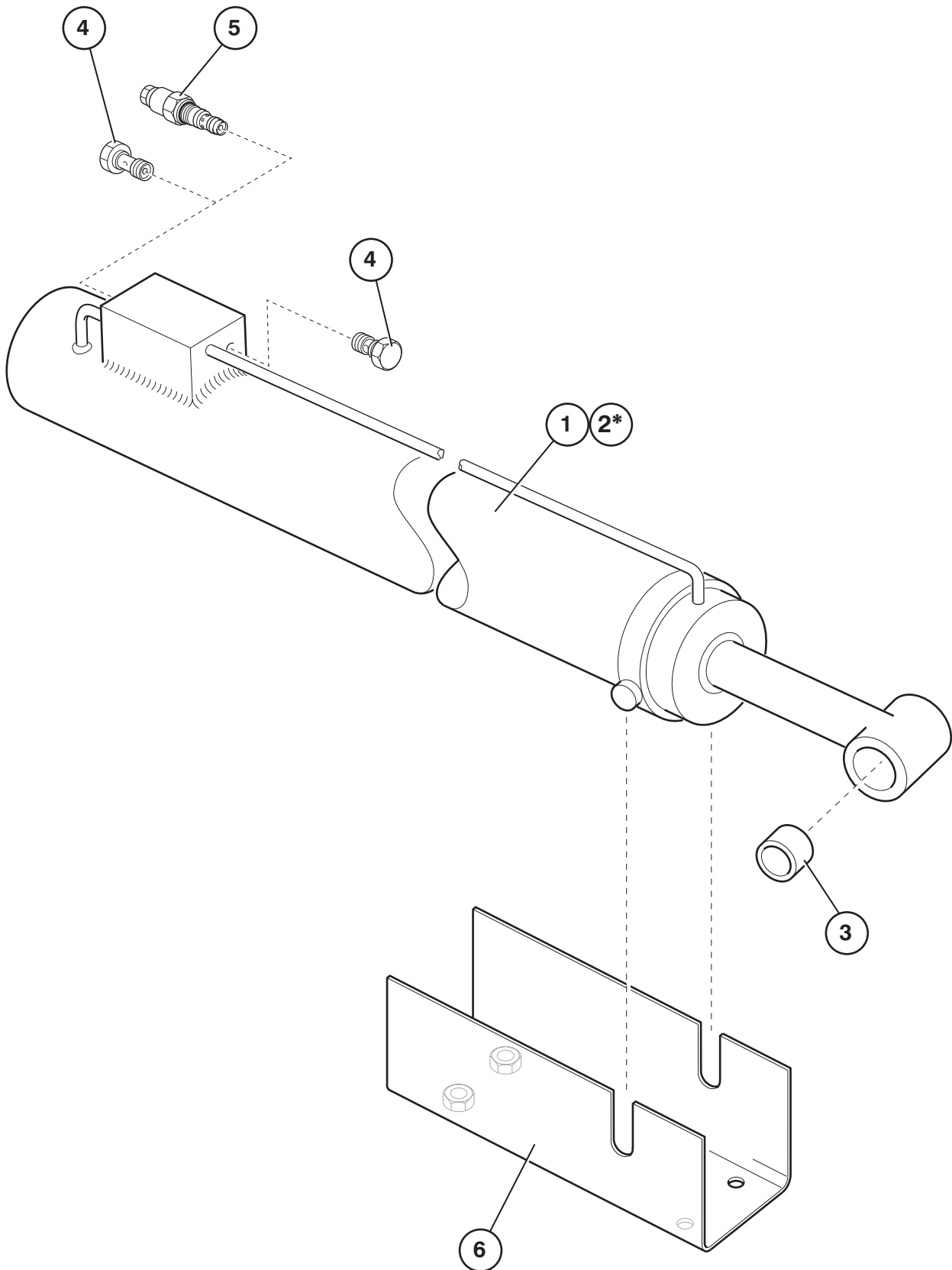
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boom assemblies

3.6 Telescope cylinder

Item	Description				Part Number
1	Cylinder				P13348
2 *	Seal kit for item 1				P11756
3	Bush DU2520				P10032
4	Check valve cartridge				P17317
5	Load valve (Fitted to machines after Jan 2004)				P11956
6	Bracket				P10512

* Not illustrated



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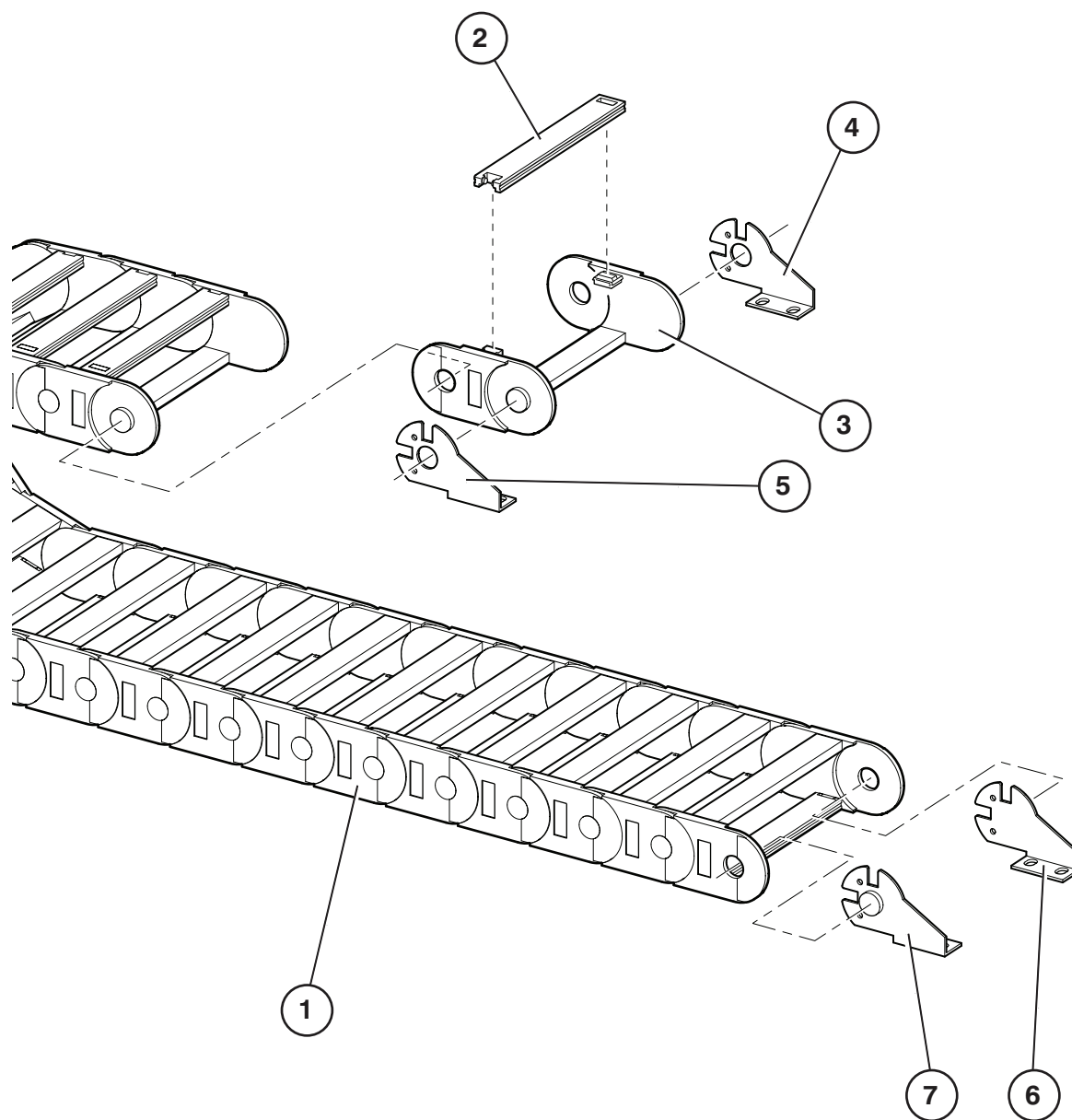
3-15

3.7 Energy chain

Item	Description				Part Number
1	Chain assembly (Items 4 to 7 not included)				P19226
2	Bridge				P15813
3	Link (Includes item 2)				P15814
4	Bracket (Inner, with hole)				P19228
5	Bracket (Outer, with hole)				P19227
6	Bracket (Inner)				P19230
7	Bracket (Outer)				P19229

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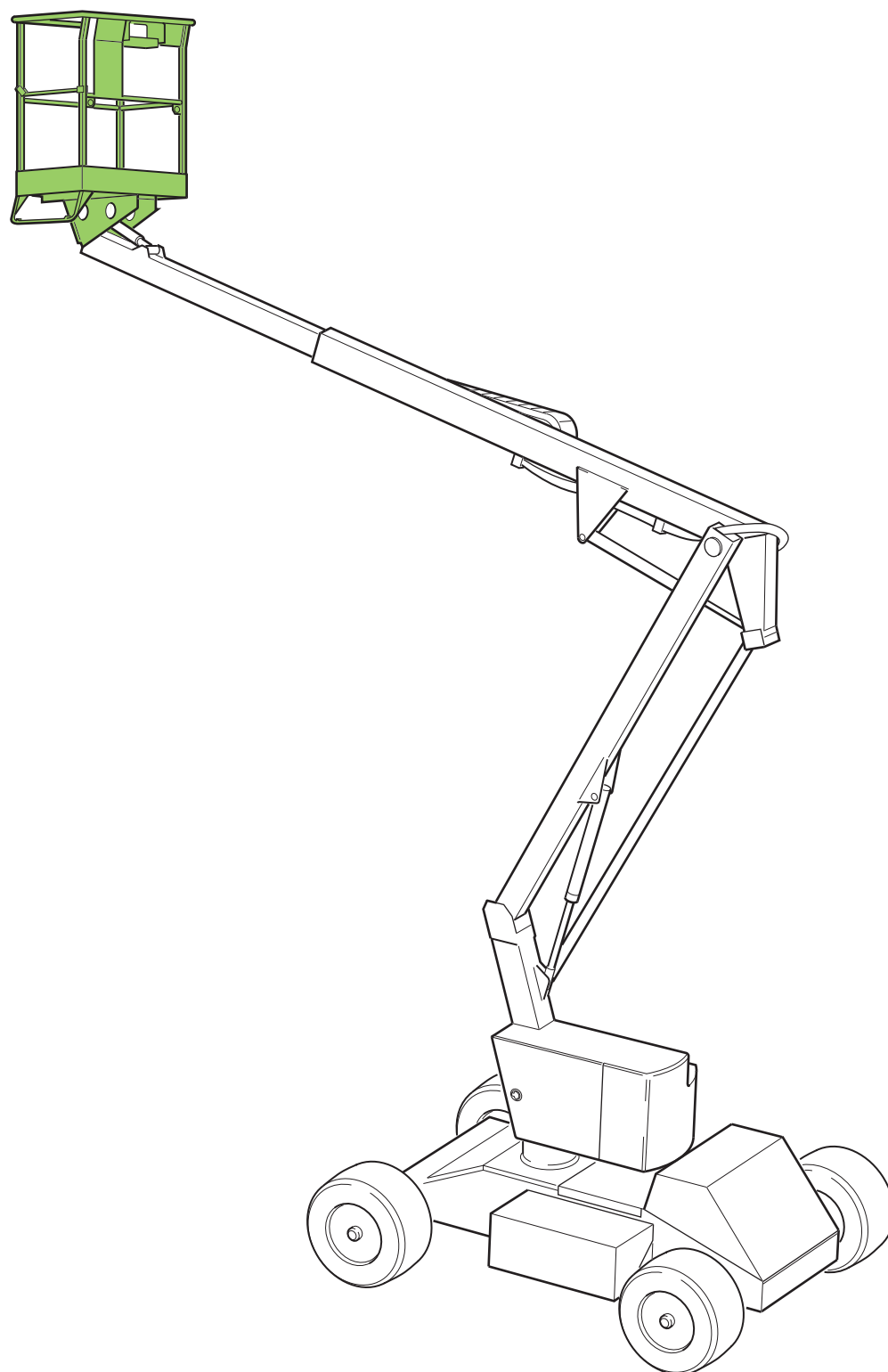
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4



cage assembly

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4.1 Cage assembly

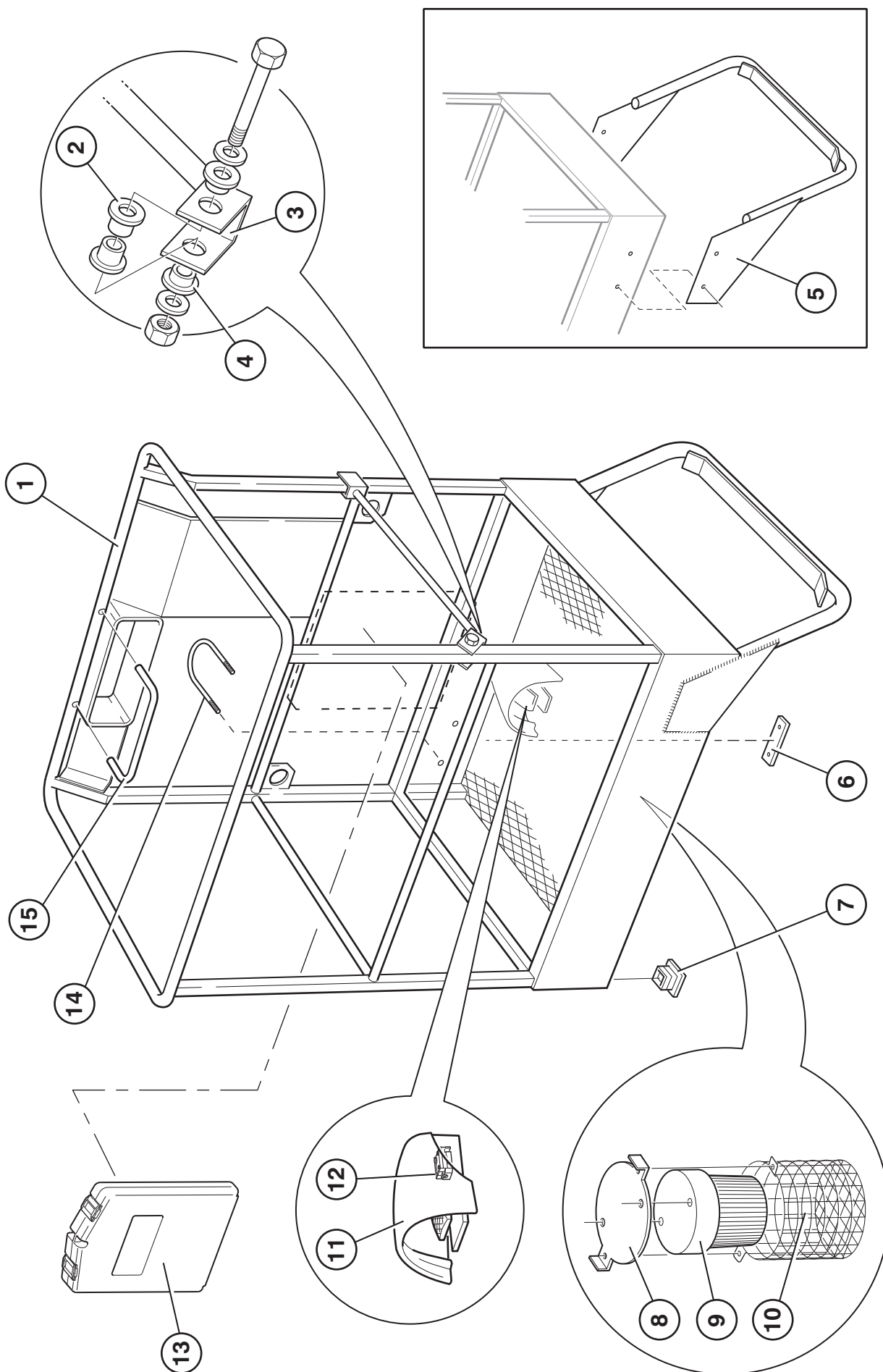
Item Description

Part Number

1	Cage HR10 With cage weigh Spring Load Cell Non cage weigh				P18292 P17052 P10835
1	Cage HR12 With cage weigh Spring Load Cell Non cage weigh				P20726 P20495 P10843
1	Cage - Central mounting HR12 With cage weigh Spring				P23634
2	Bush				P10840
3	Cage gate				P11610
4	Bush				P18647
5	Step (Cage P18292 ONLY)				P16905
6	Wear Pad (Non cage weigh)				P15167
7	Cap				P10841
8	Bracket - Beacon (OPTIONAL)				P11451
9	Beacon (OPTIONAL)				P10274
10	Guard - Beacon (OPTIONAL)				P10312
11	Foot switch (OPTIONAL)				P10759
12	Electrical contact				P15209
13	Instruction manual box (OPTIONAL)				P11618
14	Hoop (U Bolt)				P10566
15	Guard bar				P20947

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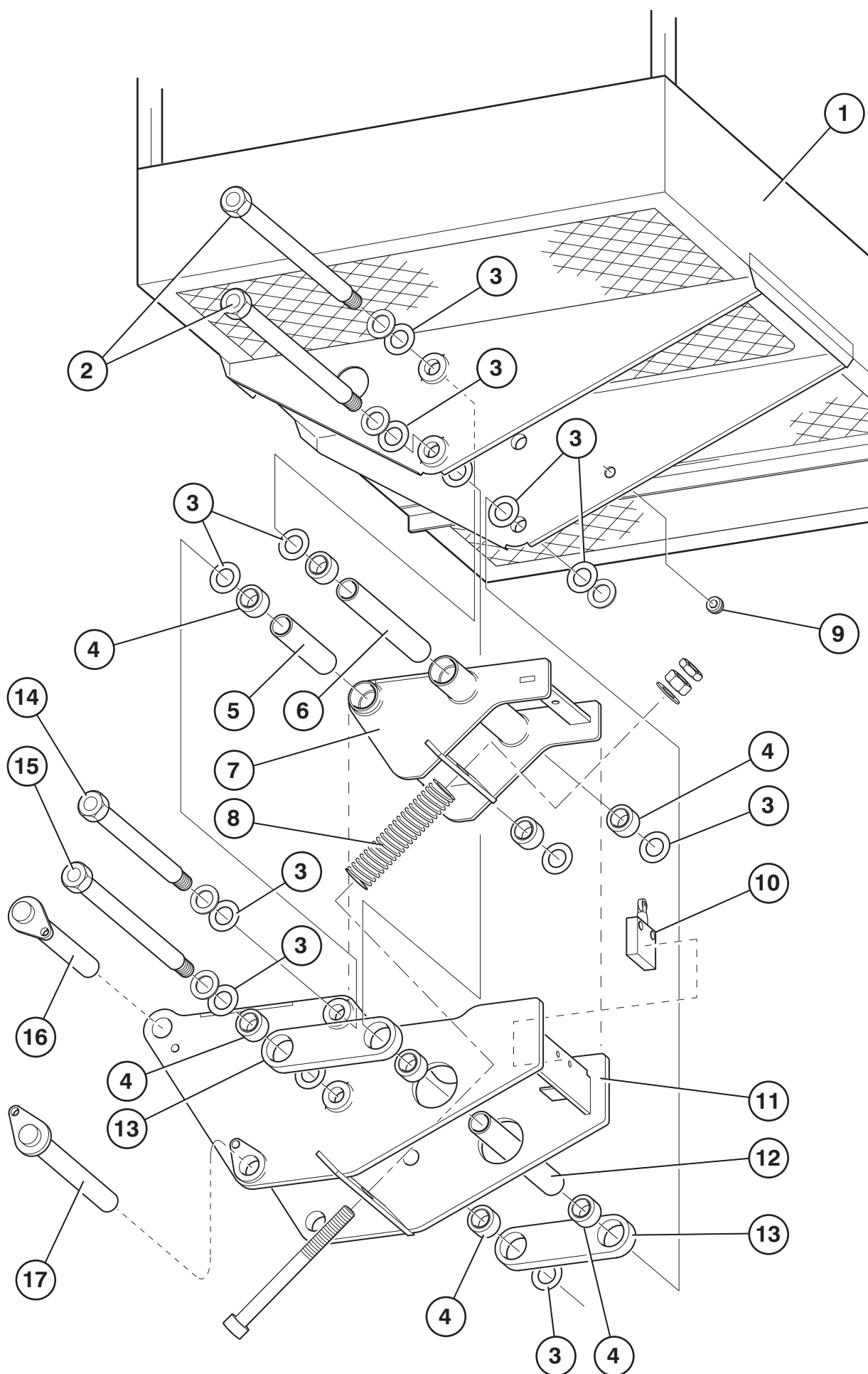


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cage assembly

4.2 Cage weigh assembly - Spring (HR10)

Item	Description				Part Number
1	Cage				P18292
2	Pivot pin - 274mm				P17942
3	Washer				P18058
4	Bearing				P18080
5	Distance tube - 111mm				P17974
6	Distance tube - 183mm				P17975
7	Inner frame				P18162
8	Spring				P18079
9	Grommet				P14456
10	Microswitch				P18150
11	Outer frame				P18273
12	Distance tube - 182mm				P17944
13	Swivel arm				P17938
14	Pivot pin - 208mm				P17940
15	Pivot pin - 251mm				P17941
16	Pivot pin - 185mm				P10571
17	Pivot pin - 192mm				P10210



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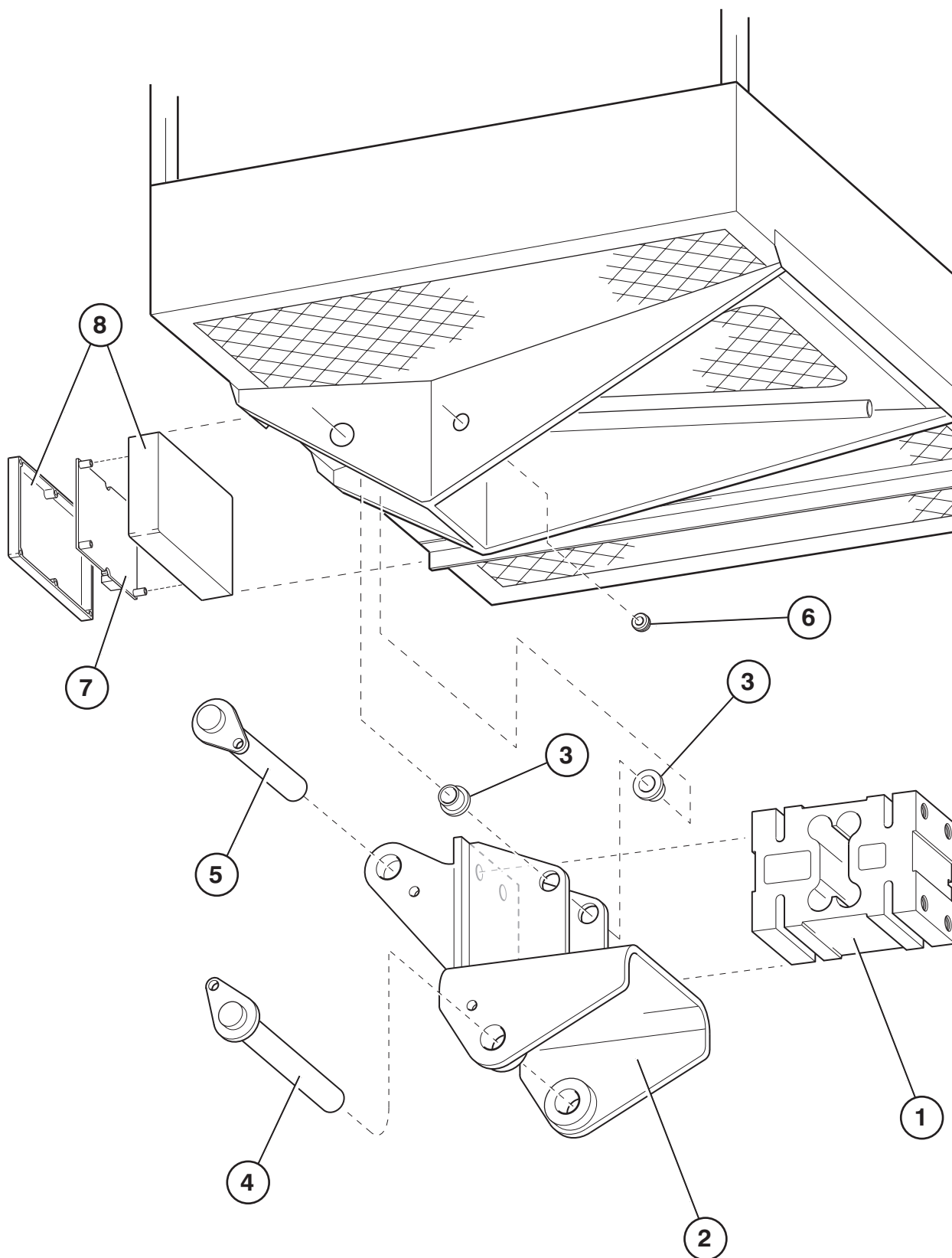
4-5

4.3 Cage weigh assembly - Load Cell (HR10)

Item	Description	Part Number			
1	Load cell				P18179
2	Lower chassis				P17056
3	Grommet				P16983
4	Pin - 192mm				P10210
5	Pin - 145mm				P16799
6	Rubber grommet				P14456
7	PCB - 2000kg 12v 24v				P18185 P18531
8	Box assembly (Includes item 7)				P17133

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cage assembly



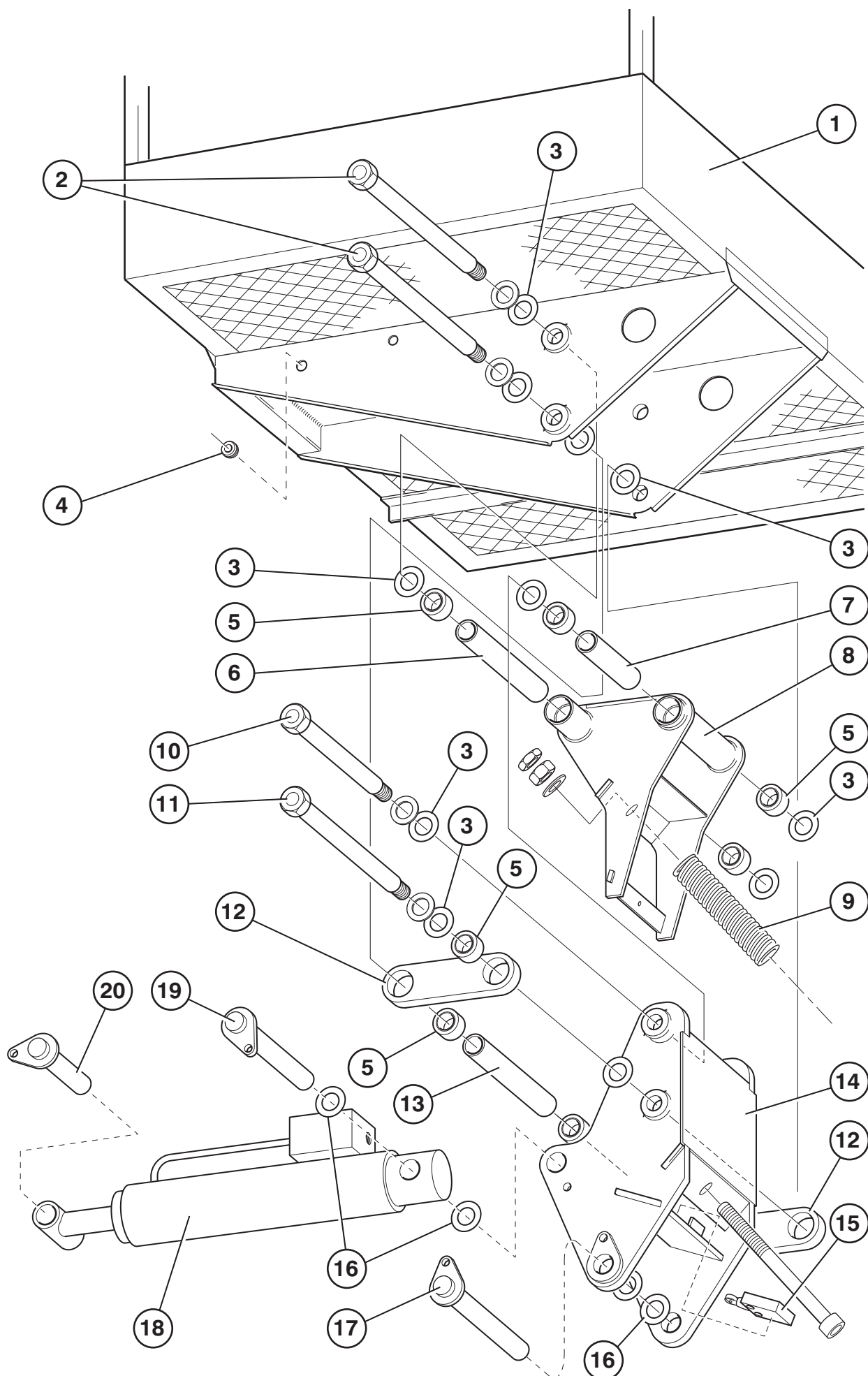
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cage assembly

Figure 4.3 Cage weigh assembly - Load cell (HR10)

4.4 Cage weigh assembly - Spring (HR12)

Item	Description				Part Number
1	Cage				Refer to Figure 4.1
2	Pivot pin - 274mm				P17942
3	Washer				P18058
4	Grommet				P14456
5	Bearing				P18080
6	Distance tube - 183mm				P17975
7	Distance tube - 111mm				P17974
8	Inner frame				P17937
9	Spring				P18079
10	Pivot pin - 208mm				P17940
11	Pivot pin - 251mm				P17941
12	Swivel arm				P17938
13	Distance tube - 182mm				P17944
14	Outer frame				P17936
15	Microswitch				P18150
16	Washer				P10035
17	Pivot pin - 192mm				P10210
18	Levelling cylinder See "Levelling cylinder" on page 3-12.				P22974
19	Pivot pin - 182mm				P10029
20	Pivot pin - 95mm				P12899



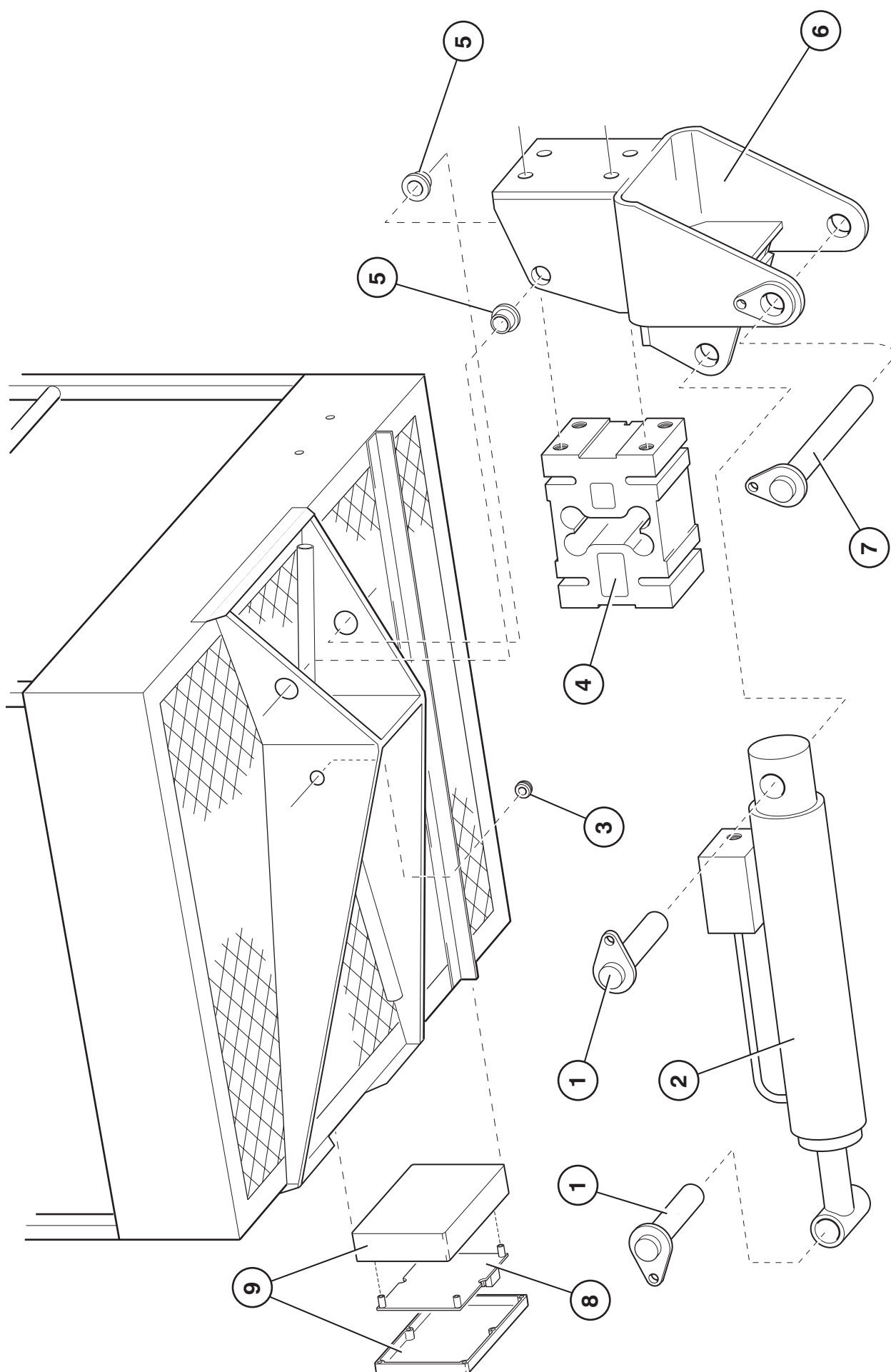
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cage assembly

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4.5 Cage weigh assembly - Load Cell (HR12)

Item	Description	Part Number			
1	Pin - 95mm				P12899
2	Levelling cylinder See "Levelling cylinder" on page 3-12.				P22974
3	Grommet				P14456
4	Load cell				P18179
5	Rubber grommet				P16983
6	Lower chassis				P16866
7	Pin - 192mm				P10210
8	PCB - 2000kg 12v 24v				P18185 P18531
9	Box assembly (Includes item 8)				P17133



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cage assembly

Figure 4.5 Cage weigh assembly - Load cell (HR12)

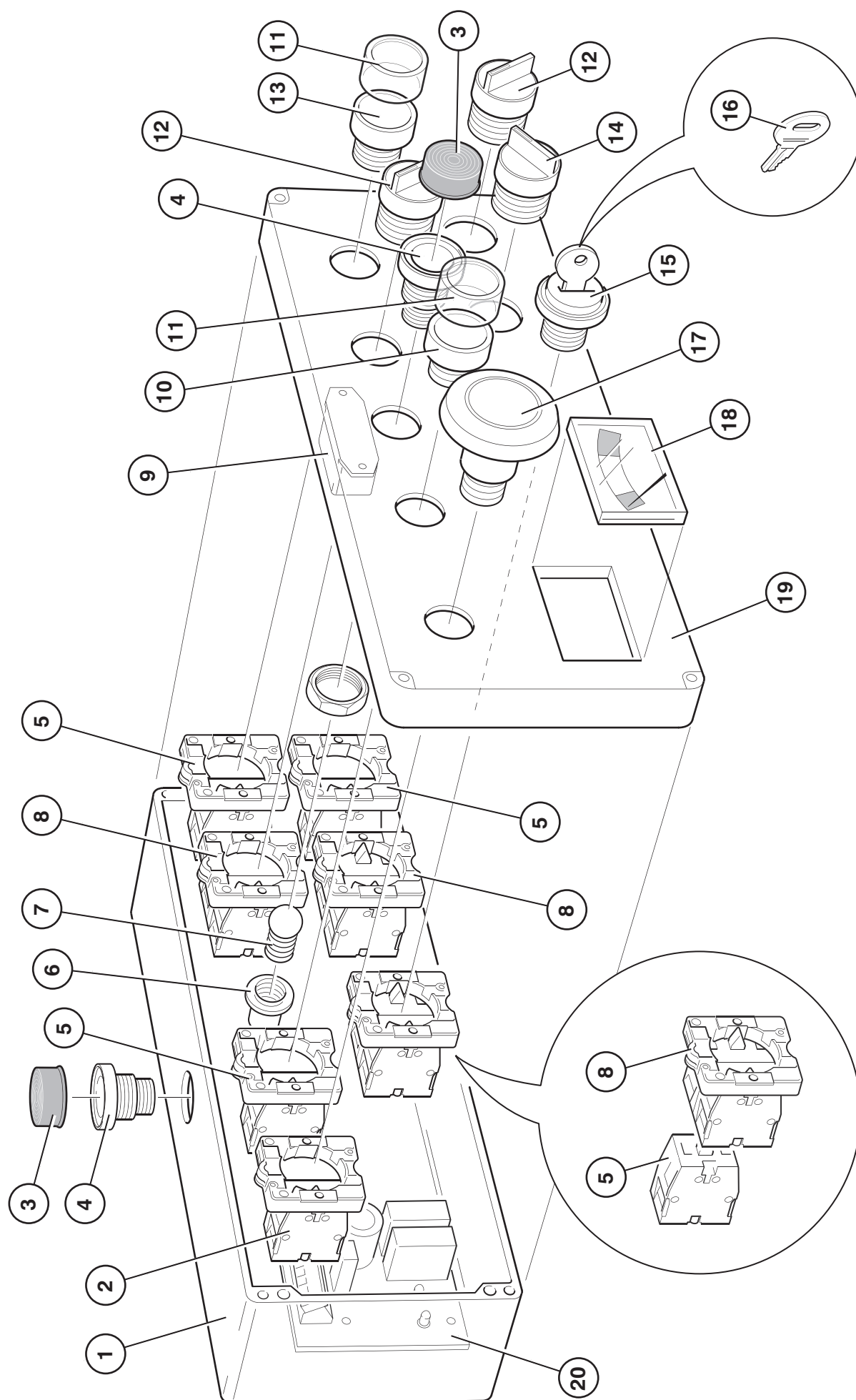
4.6 Control box - Cage

Item Description Part Number

	Complete assembly Diesel/Bi-energy Electric Electric (24v) Non cage weigh				P22548 P22545 P23686 P11946
1	Box and Decal				P11831
2	Contact - NC Normally closed				P11839
3	Lens				P11295
4	Lamp Housing				P14276
5	Contact - NO Normally open				P11838
6	Bulb holder				P11790
7	Bulb				P11791
8	Contact - Double NO				P11840
9	Buzzer				P15224
10	Blue button				P11117
11	Rubber cover				P22414
12	Selector switch				P10777
13	Green button				P10075
14	Selector switch- (Diesel/Bi-energy ONLY) Blanking Plate- (DC ONLY)				P12692 P11251
15	Key switch - 455 key (3 position)				P10081
16	Spare key				P70187
17	E-stop button USA Only				P10342 P21541
18	Battery meter				P11494
19	Decal ONLY				P12832
20	PCB - Cage weigh Diesel/Bi-energy Electric				P16164 P18940

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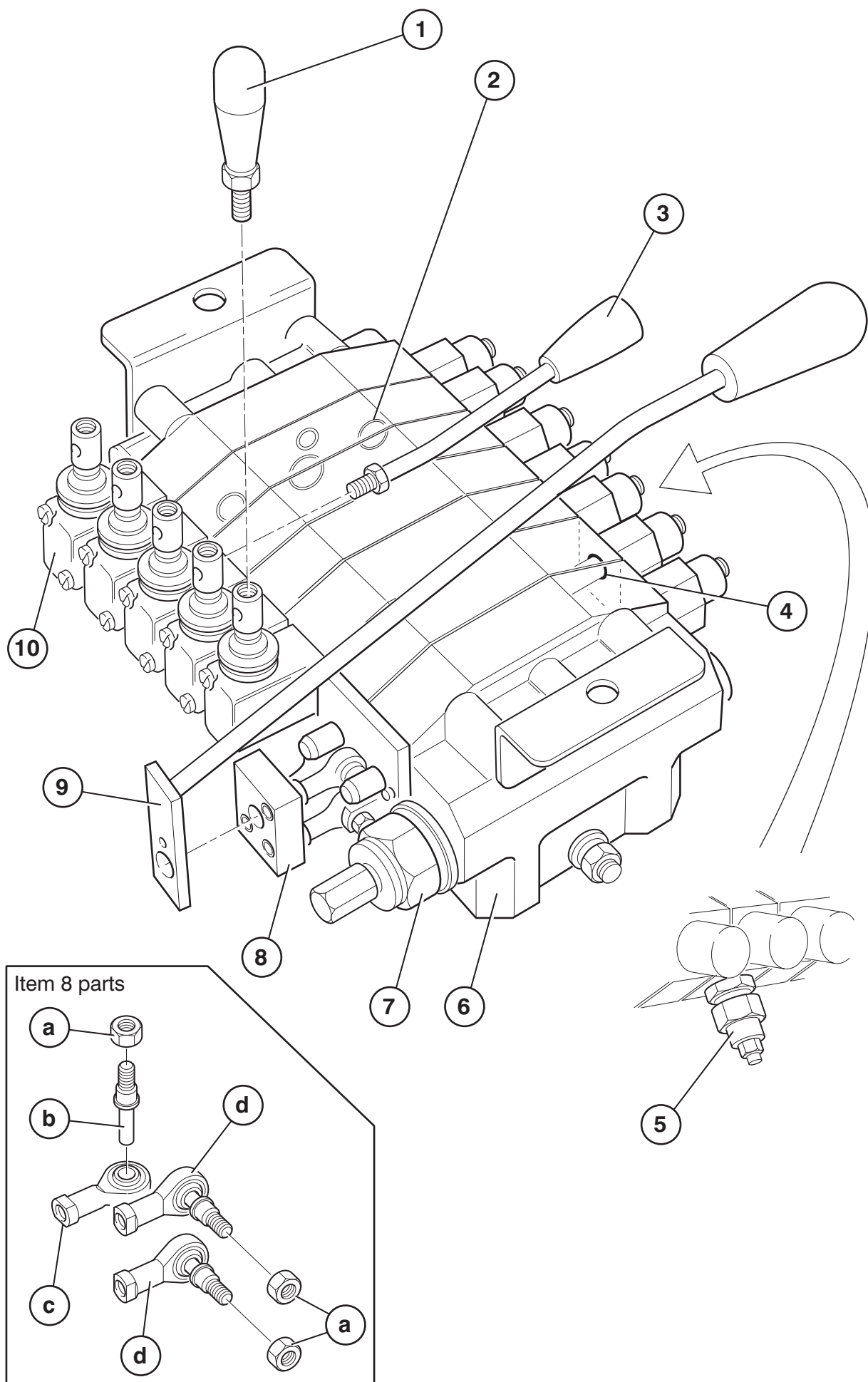
cage assembly

4.7 Control valve - Cage

Item	Description				Part Number
1	Lever - levelling				P70347
2	Interface seal kit				P10706
3	Lever - 150mm				P70346
4	Seal kit - Spool				P10707
5	Pressure relief valve Telescope spool Levelling spool				P10879 P15840
6	Control valve assy - HR10/SP26 (5 spool) HR12/SP34 (7 spool)				P15516 P15522
7	Pressure relief valve				P70335
8	Manipulator assy. (complete) a) Nut b) Vertical pin c) Universal joint d) UJ joint & pin				P10708 P12748 P12749 P12750 P19917
9	Joystick				P10310
10	Lever cap				P70338

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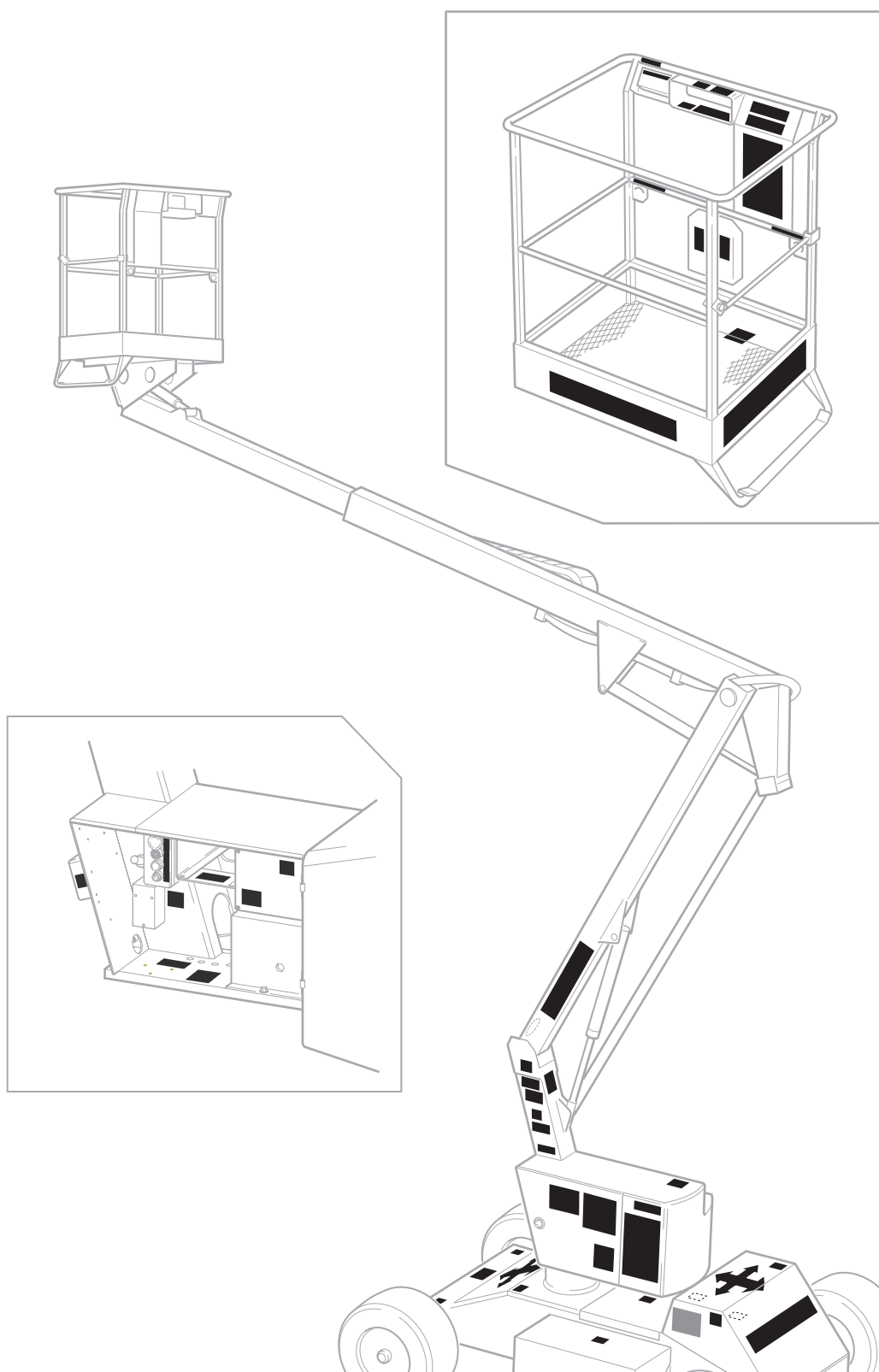
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Manuel illustré de pièces détachées

Illustrierte Stückliste

Manual de piezas ilustrado



5



labelling
french
german
spanish

5.1 Label locations HR10/12

Item	Description	Part Number
1	Cage - Hydraulic control levers - HR10 HR12	P15878 P14939
	french	P15878 P14939
	german	P15878 P14939
	spanish	P15878 P14939
	dutch	P15878 P14939
	italian	P15878 P14939

2	Cage control box	P12832
	french	P12832
	german	P12832
	spanish	P12832
	dutch	P12832
	italian	P12832

3	Cage overload symbol	P17214
	french	P17214
	german	P17214
	spanish	P17214
	dutch	P17214
	italian	P17214

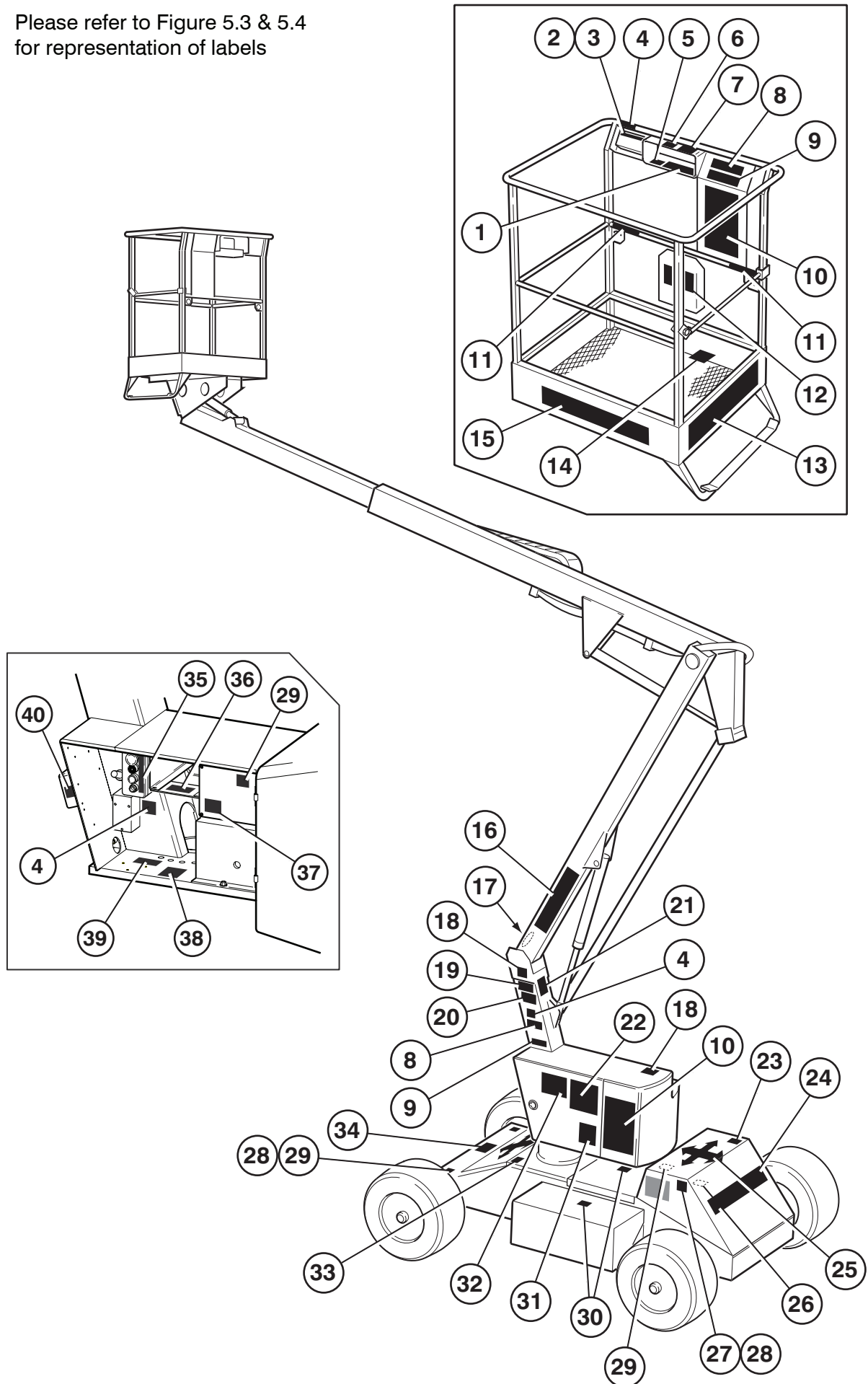
4	E-Stop - Do not disable	P14864
	french	P14865
	german	P14866
	spanish	P14867
	dutch	P16628
	italian	P16651

5	Cage levelling	P10853
	french	P10853
	german	P10853
	spanish	P10853
	dutch	P10853
	italian	P10853

french
german
spanish

labelling

Please refer to Figure 5.3 & 5.4
for representation of labels



french
german
spanish

labelling

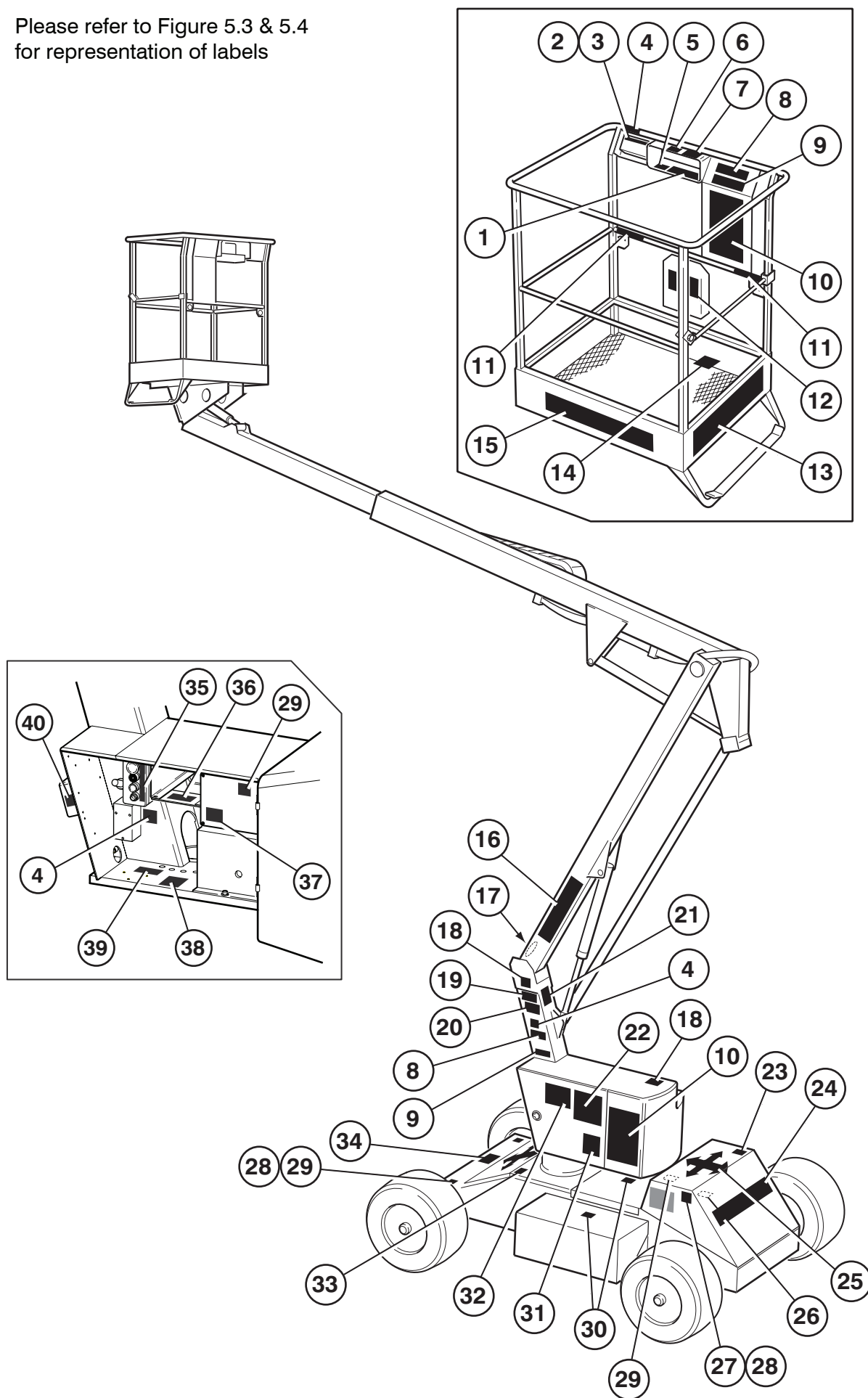
5.1 continued

Item	Description	Part Number
6	Cage gate warning	P18432
	french	P18432
	german	P18432
	spanish	P18432
	dutch	P18432
	italian	P18432
7	Battery management	P11777
	french	P11811
	german	P11809
	spanish	P13432
	dutch	P16483
	italian	P16793
8	Tilt alarm	P14868
	french	P14869
	german	P14870
	spanish	P14871
	dutch	P16398
	italian	P16650
9	Overload warning	P18848
	french	P18848
	german	P18848
	spanish	P18848
	dutch	P18848
	italian	P18848
10	General warning	P20330
	french	P20331
	german	P20332
	spanish	P20333
	dutch	P20334
	italian	P20335
11	Harness point	P14883
	french	P14883
	german	P14883
	spanish	P14883
	dutch	P14883
	italian	P14883

french
german
spanish

labelling

Please refer to Figure 5.3 & 5.4
for representation of labels



french
german
spanish

labelling

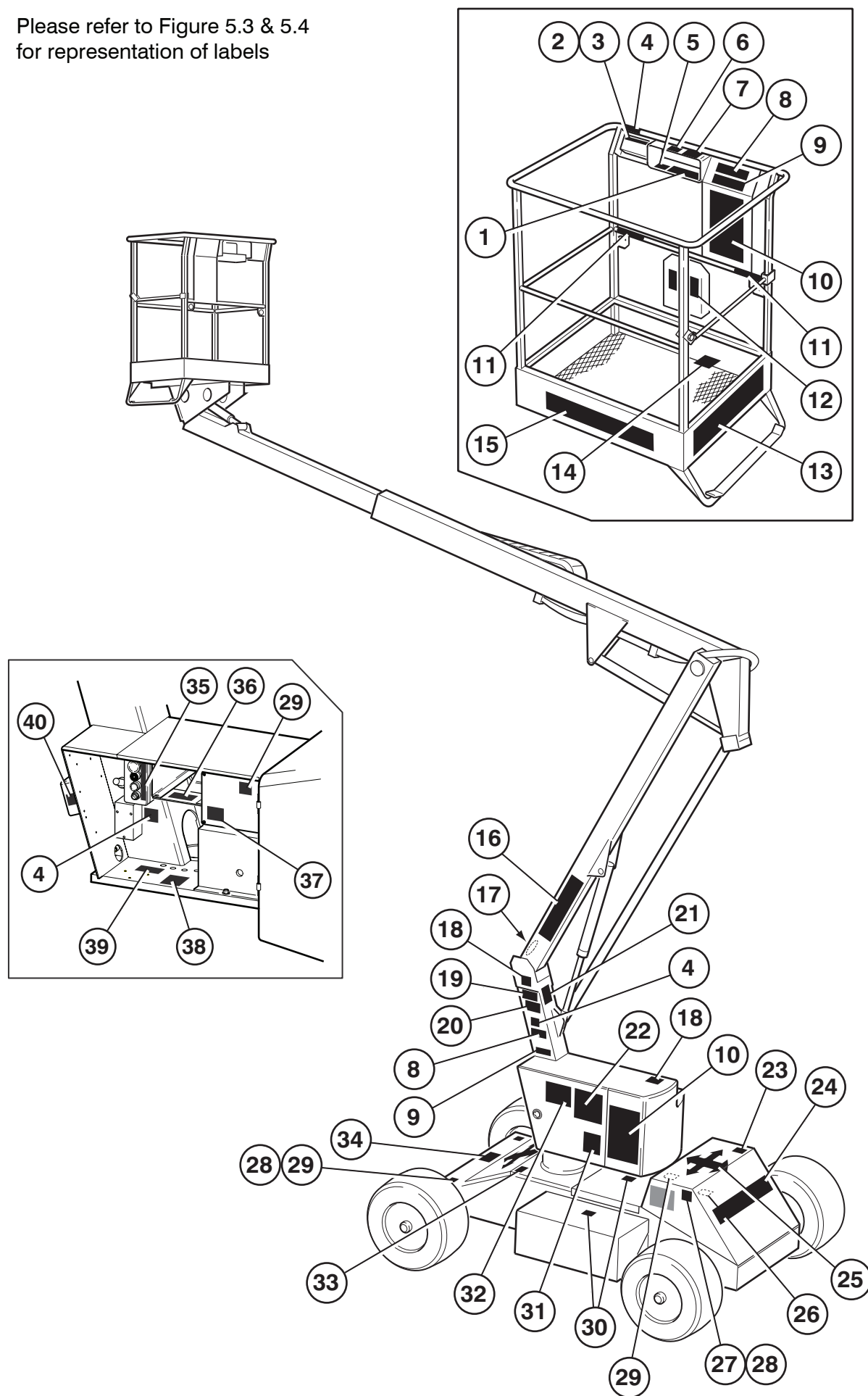
5.1 continued

Item	Description	Part Number
12	Operating instructions	P14892
	french	P14892
	german	P14892
	spanish	P14892
	dutch	P14892
	italian	P16639
13	Warning - SWL 200kg	P14801
	french	P14801
	german	P14801
	spanish	P14801
	dutch	P16268
	italian	P16660
14	Footswitch	P14884
	french	P14885
	german	P14886
	spanish	P14887
	dutch	P16898
	italian	P16656
15	niftylift.com	P14390
	french	P14390
	german	P14390
	spanish	P14390
	dutch	P14390
	italian	P14390
16	Logo	Nifty HR10 - Grey Nifty HR12 - Grey
	french	P14601 P14604
	german	P14601 P14604
	spanish	P14601 P14604
	dutch	P14601 P14604
	italian	P14601 P14604

french
german
spanish

labelling

Please refer to Figure 5.3 & 5.4
for representation of labels



french
german
spanish

labelling

5.1 continued

Item	Description	Part Number
17	Head protection	P14921
	french	P14921
	german	P14921
	spanish	P14921
	dutch	P14921
	italian	P14921

18	Crush Hazard	P14782
	french	P14782
	german	P14782
	spanish	P14782
	dutch	P14782
	italian	P14782

19	Component stability	P19708
	french	P19709
	german	P19710
	spanish	P19711
	dutch	P19712
	italian	P19713

20	Foam filled tyres <i>(Not included on Non-marking tyre option)</i>	P14932
	french	P14933
	german	P14934
	spanish	P14935
	dutch	P17314
	italian	P16797

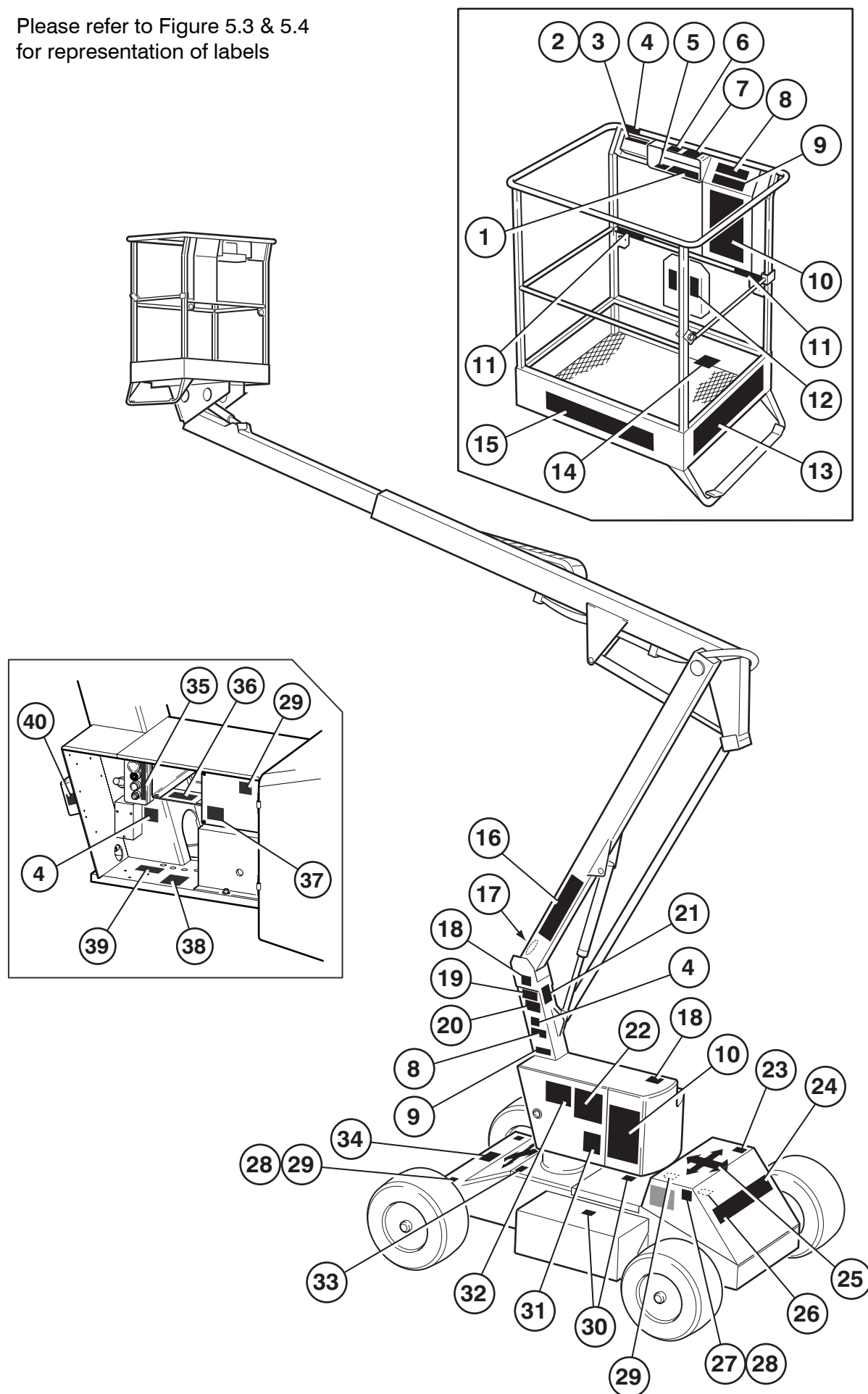
21	Machine plate (Blank)	P15383
	french	P15383
	german	P15383
	spanish	P15383
	dutch	P15383
	italian	P15383

22	General Notice	P18870
	french	P18871
	german	P18872
	spanish	P18873
	dutch	P16901
	italian	P16649

french
german
spanish

labelling

Please refer to Figure 5.3 & 5.4
for representation of labels



french
german
spanish

labelling

5-9

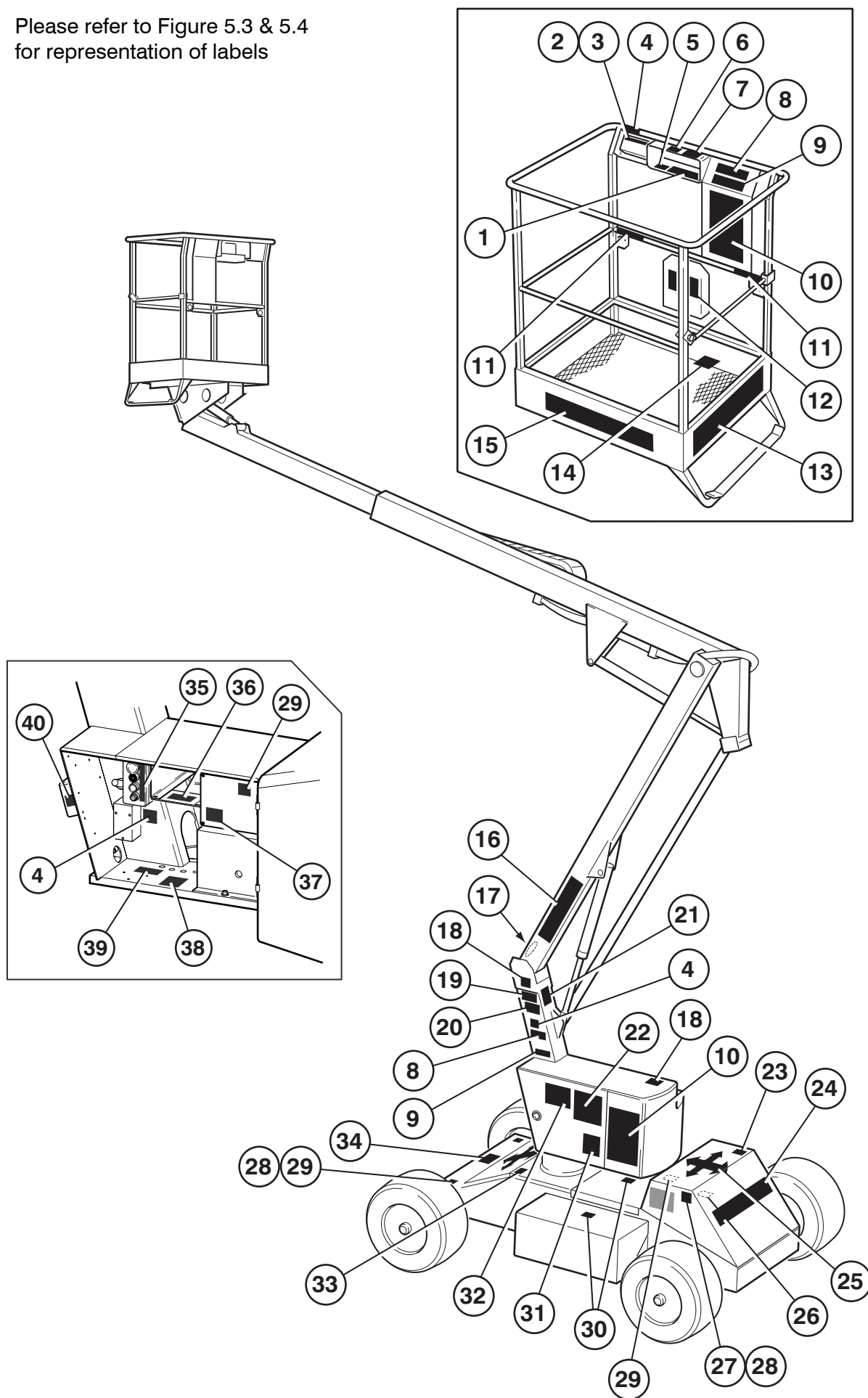
5.1 continued

Item	Description	Part Number
23	Noise warning	P17124
	french	P17124
	german	P17124
	spanish	P17124
	dutch	P17124
	italian	P17124
24	Heightrider logo - HR10	P14603
	HR12	P14605
	french	P14603
		P14605
	german	P14603
		P14605
	spanish	P14603
		P14605
25	Travel direction	P14784
	french	P14784
	german	P14784
	spanish	P14784
	dutch	P14784
	italian	P14784
26	Diesel fuel	P14414
	french	P14414
	german	P14414
	spanish	P14414
	dutch	P14414
	italian	P14414
27	Point load (HR10 D/E/DE) -13.6kN	P20606
	(HR10 NDE) - 13.9 kN	P14969
	french	P20606
		P14969
	german	P20606
		P14969
	spanish	P20606
		P14969
27	dutch	P20606
		P14969
	italian	P20606
27		P14969

french
german
spanish

labelling

Please refer to Figure 5.3 & 5.4
for representation of labels



french
german
spanish

labelling

Figure 5.1 Label locations HR10/12

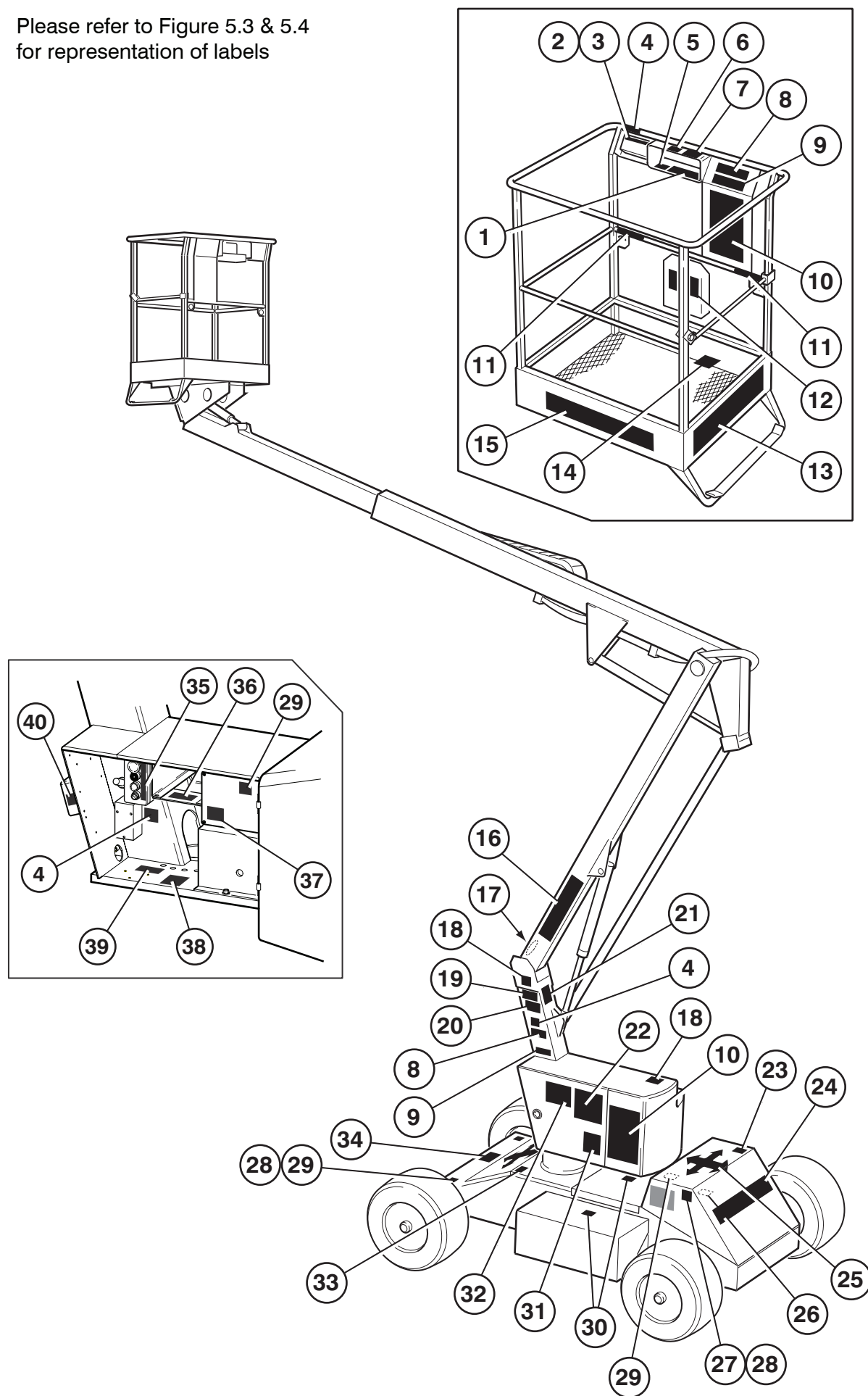
5.1 continued

Item	Description	Part Number
28	Point load (HR12 E/DE) - 16.7 kN (HR12 NE/NDE) - 19.2 kN	P20607 P20608
	french	P20607 P20608
	german	P20607 P20608
	spanish	P20607 P20608
	dutch	P20607 P20608
	italian	P20607 P20608
29	Trip switch	P19056
	french	P19056
	german	P19056
	spanish	P19056
	dutch	P19056
	italian	P19056
30	No step	P14785
	french	P14785
	german	P14785
	spanish	P14785
	dutch	P14785
	italian	P14785
31	Battery charging	P14904
	french	P14905
	german	P14906
	spanish	P14907
	dutch	P16746
	italian	P16662
32	Daily Safety Check List	P14908
	french	P14909
	german	P14910
	spanish	P14911
	dutch	P17318
	italian	P16654

french
german
spanish

labelling

Please refer to Figure 5.3 & 5.4
for representation of labels



french
german
spanish

labelling

5.1 continued

Item	Description	Part Number
33	Battery isolator	P18610
	french	P18610
	german	P18610
	spanish	P18610
	dutch	P18610
	italian	P18610

34	Drive wheel lock	P19444
	french	P15570
	german	P15571
	spanish	P15572
	dutch	P16393
	italian	P16719

35	Base control	cage weigh non cage weigh	P21055 P21131
	french		P21055 P21131
	german		P21055 P21131
	spanish		P21055 P21131
	dutch		P21055 P21131
	italian		P21055 P21131

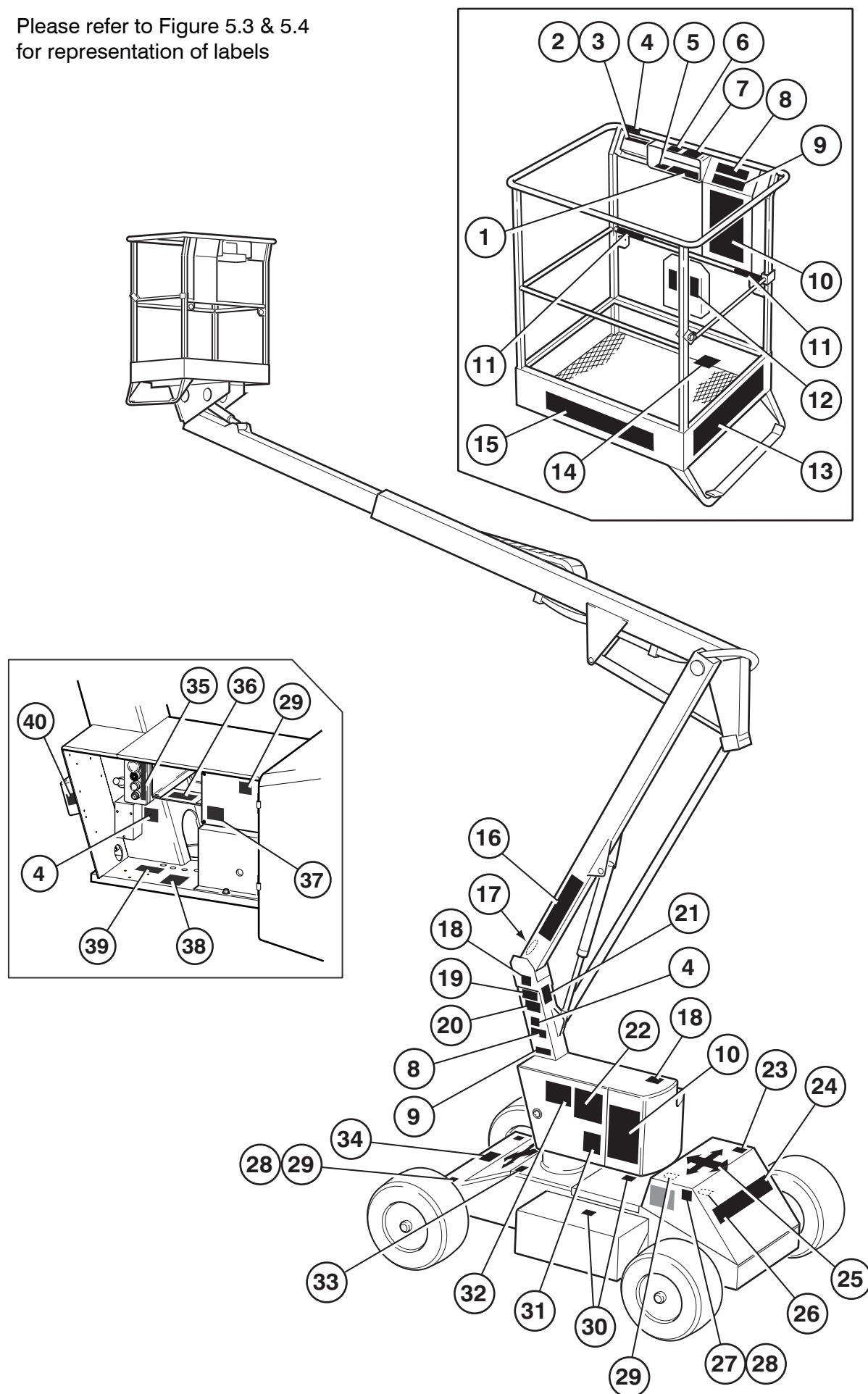
36	Base - Hydraulic control levers	P14936
	french (HR10) (HR12)	P14936 P14937
	german	P14936
	spanish	P14936
	dutch	P14936
	italian	P14936

37	Base/Cage selector valve	P19445
	french	P14071
	german	P14068
	spanish	P19445
	dutch	P16400
	italian	P16794

french
german
spanish

labelling

Please refer to Figure 5.3 & 5.4
for representation of labels



french
german
spanish

labelling

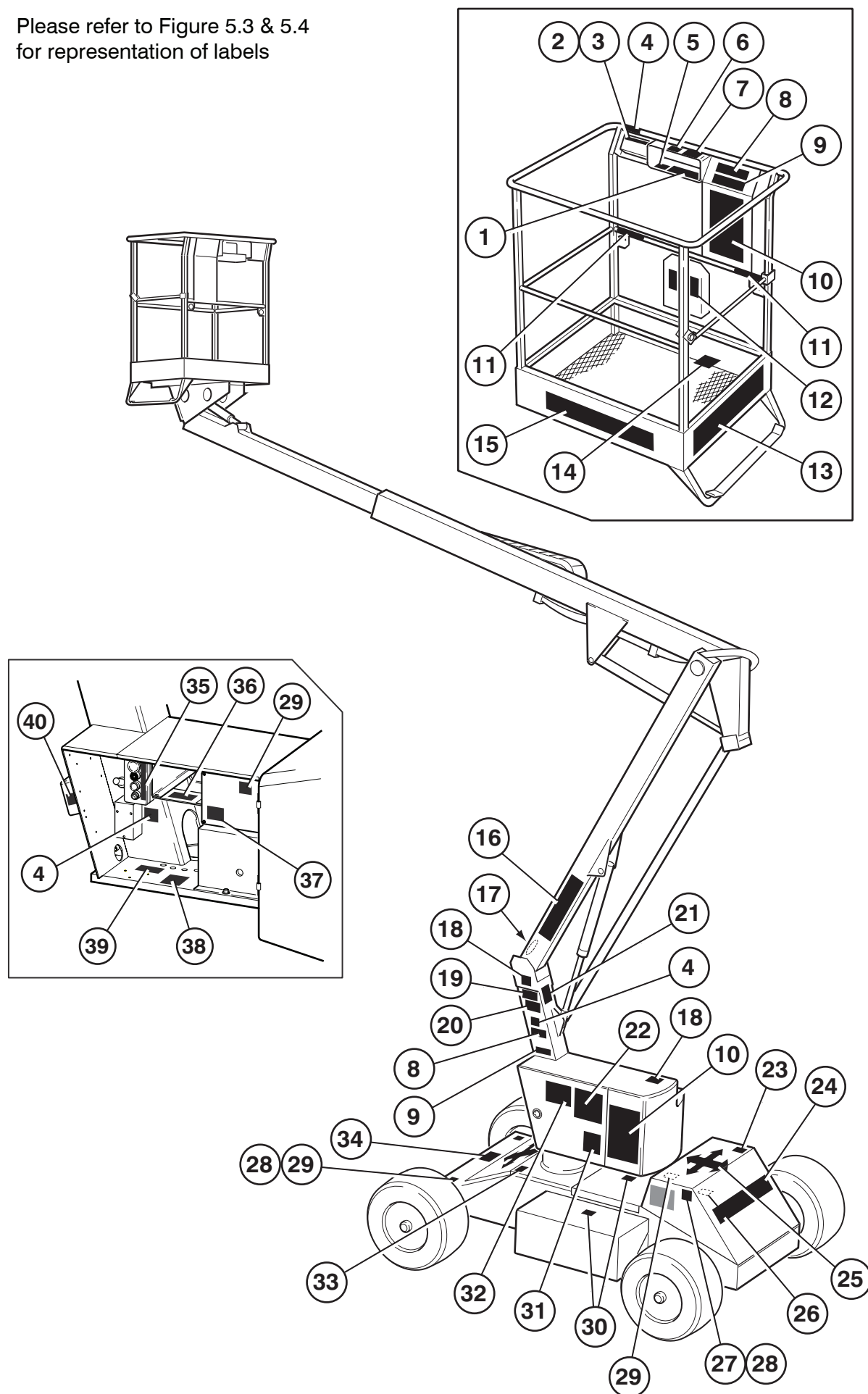
5.1 continued

Item	Description	Part Number
38	Manual descent	P19716
	french	P19716
	german	P19716
	spanish	P19716
	dutch	P19716
	italian	P19716
39	Booms/Brakes selector	P19446
	french	P16666
	german	P16667
	spanish	P16668
	dutch	P16399
	italian	P16796
40	Power inlet	110v P17719
		220v P17720
	french	P17719
		P17720
	german	P17719
		P17720
	spanish	P17719
		P17720
	dutch	P17719
		P17720
	italian	P17719
		P17720

french
german
spanish

labelling

Please refer to Figure 5.3 & 5.4
for representation of labels



french
german
spanish

labelling

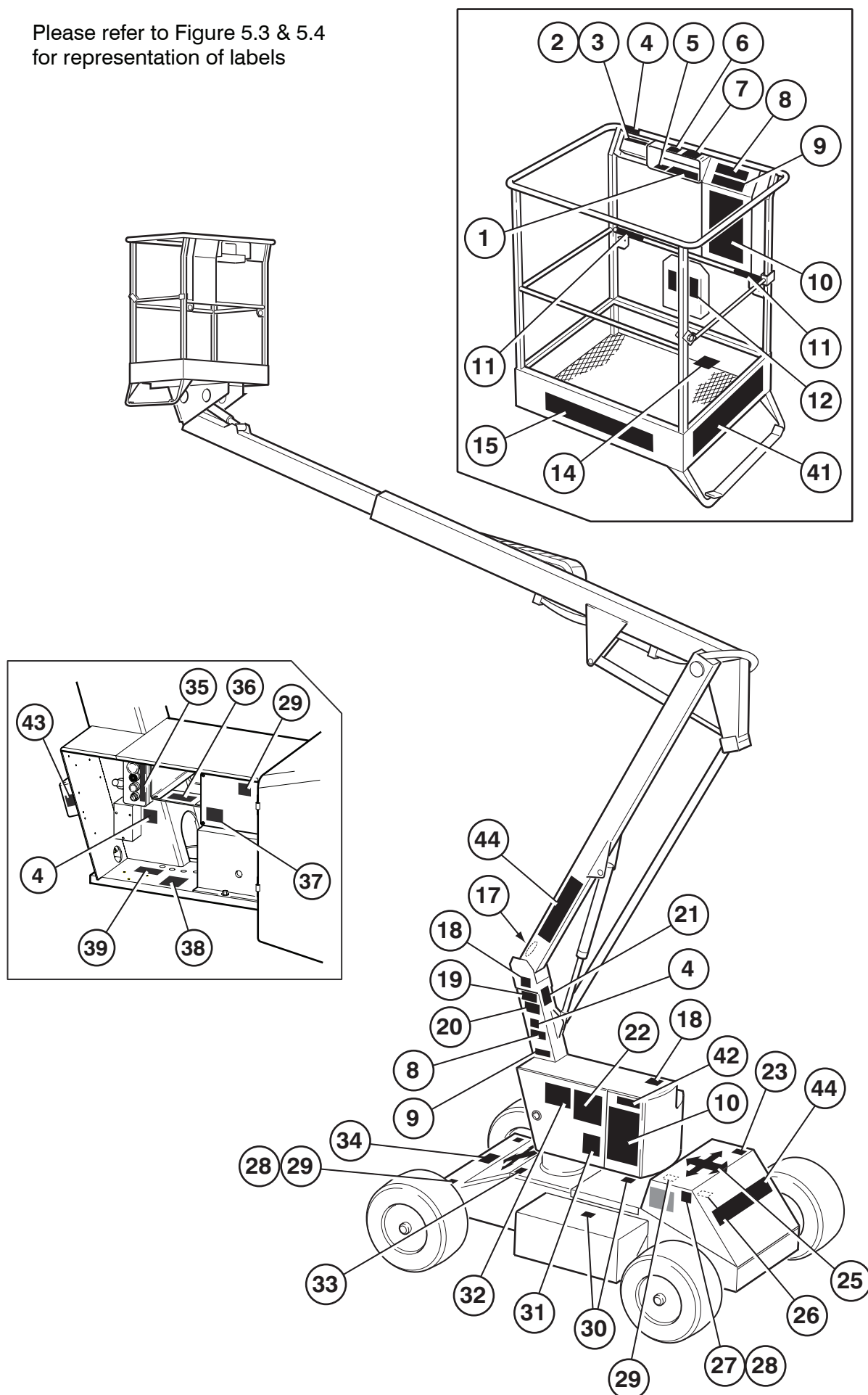
5.2 Label locations SP26/34 (USA)

Item	Description	Part Number
1	Cage - Hydraulic control levers - SP26 SP34	P15878 P14939
2	Cage control box	P12832
3	Cage overload symbol	P17214
4	E-Stop - Do not disable	P14864
5	Cage levelling	P10853
6	Cage gate warning	P18432
7	Battery management	P11777
8	Tilt alarm	P14868
10	General warning	P20330
11	Harness point	P14883
12	Operating instructions	P14892
14	Footswitch	P14884
15	niftylift.com	P14390
17	Head protection	P14921
18	Crush hazard	P14783
19	Component stability	P19708
20	Foam filled tyres	P14932
21	Identification plate (Blank)	P15383
22	General Notice	P18870
23	Noise warning	P17124
25	Travel direction	P14784
26	Diesel fuel	P14414
27	Point load (SP26 D/E/DE) - 13.6 kN (SP26 NDE) - 13.9 kN	P20606 P14969
28	Point load (SP34 E/DE) - 16.7 kN (SP34 NE/NDE) - 19.2 kN	P20607 P20608
29	Trip switch	P19056
30	No step	P14785
31	Battery charging	P14904
32	Daily safety check list	P14908
33	Battery isolator	P18610
34	Drive wheel lock	P19444
35	Base control	P21131
36	Base - Hydraulic control levers	P14936
37	Base/Cage selector valve	P19445
38	Manual handpump	P19716
39	Booms/Brakes selector	P19446
41	Platform capacity - 500lbs	P17328
42	Rotating machinery	P15010
43	Charger socket	P19699
44	Logo - SP26 SP34	P11597 P11598

french
german
spanish

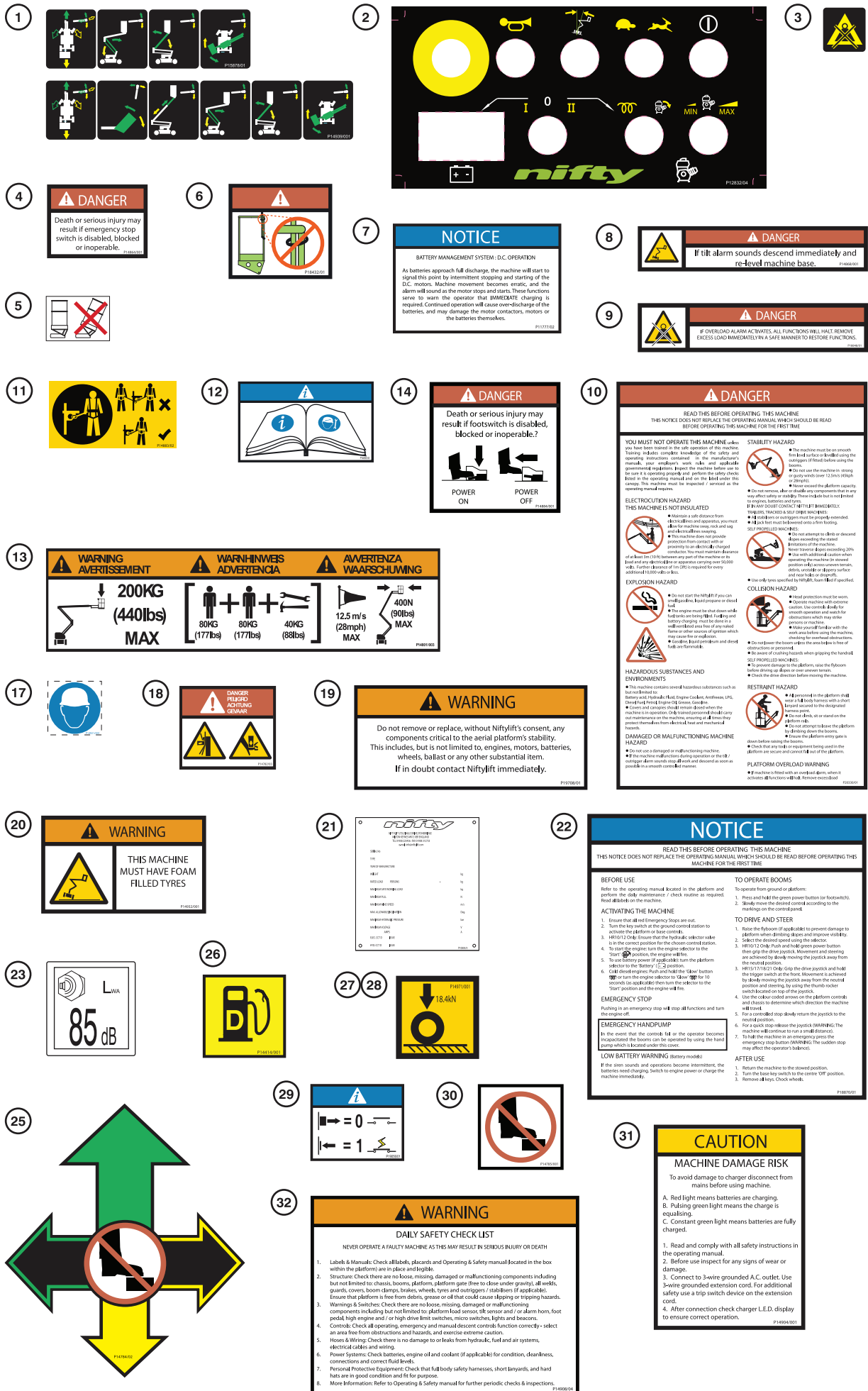
labelling

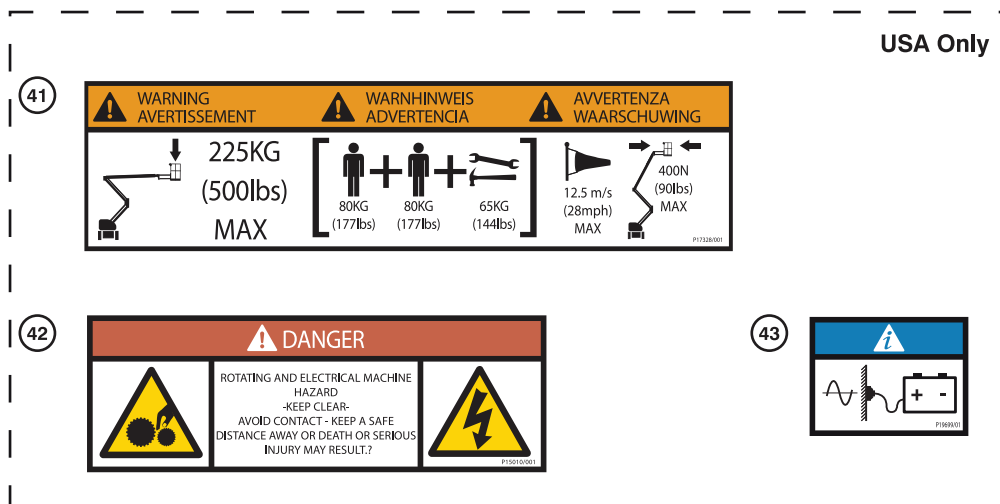
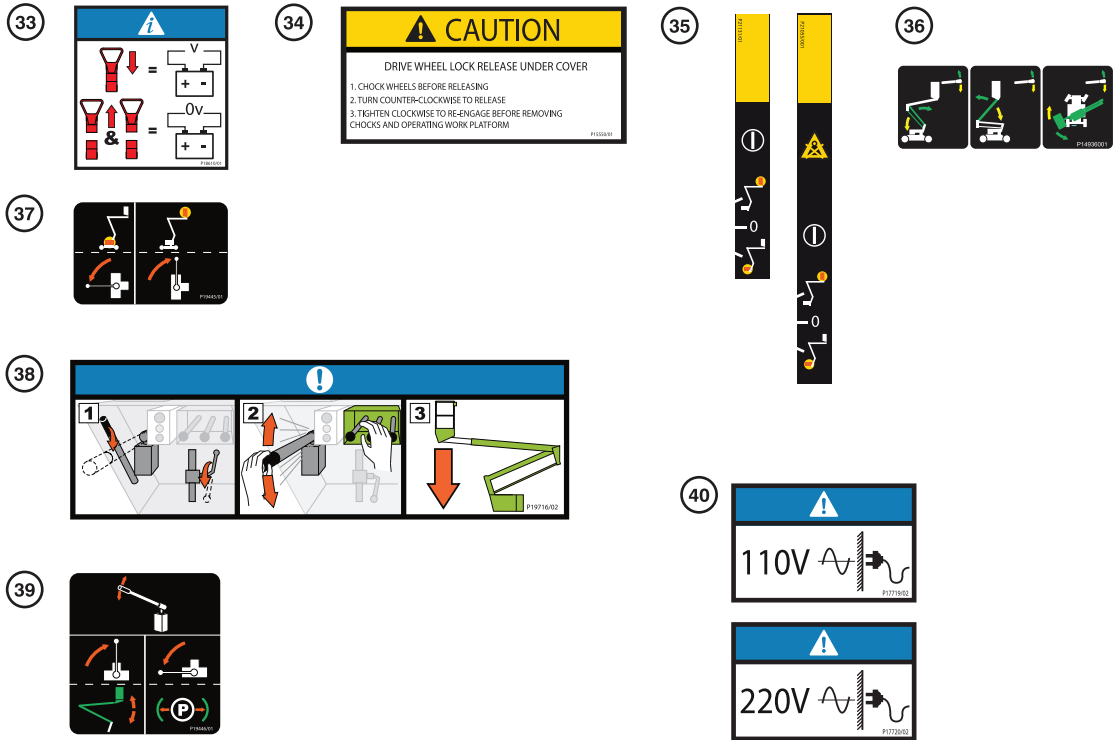
Please refer to Figure 5.3 & 5.4
for representation of labels



french
german
spanish

labelling





french
german
spanish

labelling



nifty



HR10/12 (SP26/34)

illustrated parts manual

Manuel illustré de pièces détachées

Illustrierte Stückliste

Manual de piezas ilustrado



6



hydraulic hoses

french

german

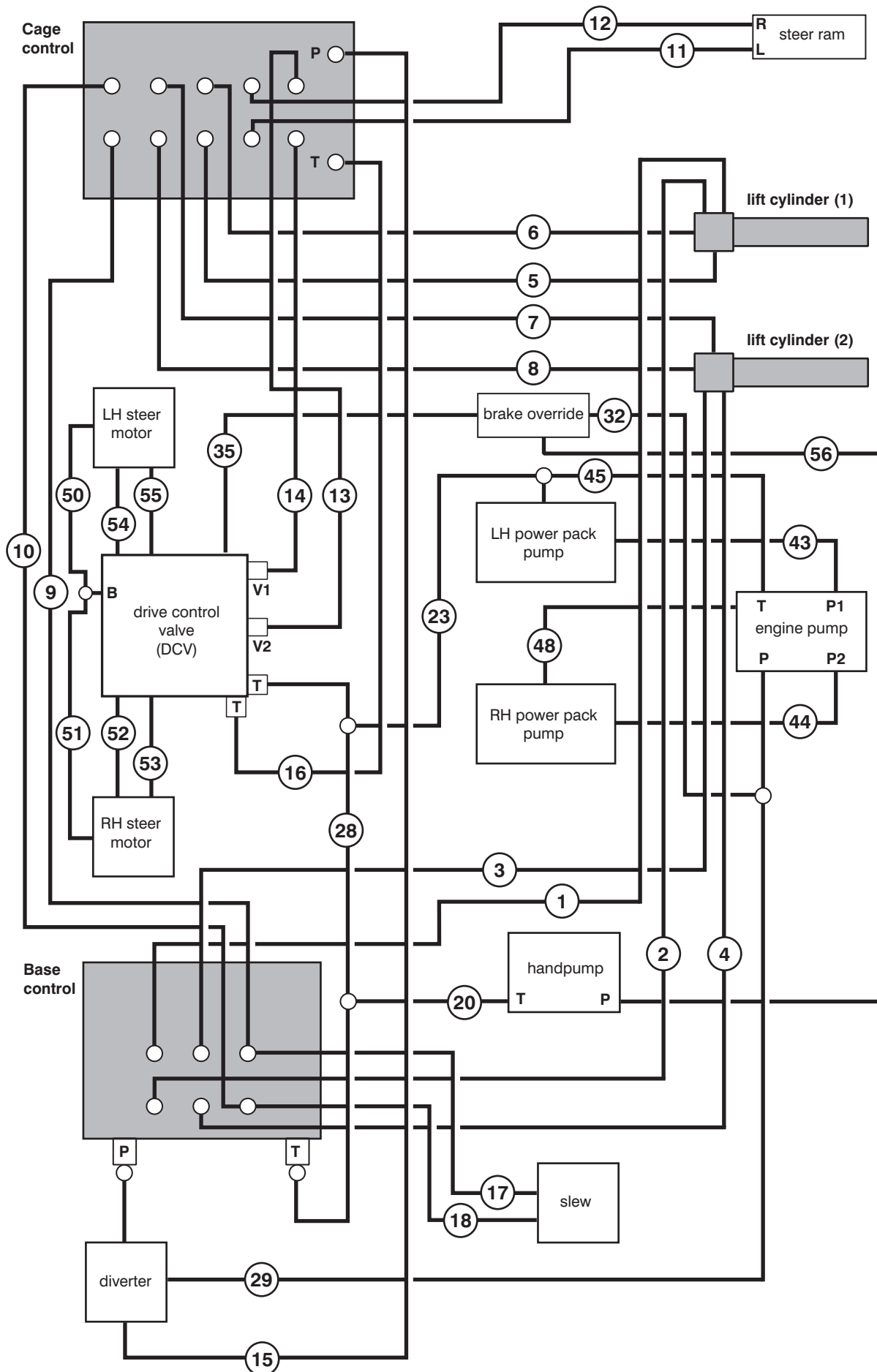
spanish

6.1 Hose kit HR10 (SP26)

Ref Number	Description	french	german	spanish
1	Base control to Ram 1 (Pressure)			
2	Base control to Ram 1 (Pilot)			
3	Base control to Ram 2 (Pressure)			
4	Base control to Ram 2 (Pilot)			
5	Cage control to Ram 1 (Pressure)			
6	Cage control to Ram 1 (Pilot)			
7	Cage control to Ram 2 (Pressure)			
8	Cage control to Ram 2 (Pilot)			
9	Base control to cage (slew pressure)			
10	Base control to cage (slew pilot)			
11	Cage control to steer ram left (Pressure)			
12	Cage control to steer ram left (Pilot)			
13	DCV to cage drive (Pressure)			
14	DCV to cage drive (Pilot)			
15	Diverter to cage (Pressure)			
16	Cage return to DCV			
17	Base control to slew motor (Pressure)			
18	Base control to slew motor (Pilot)			
20	Handpump return to base control			
23	LH Power pack return to DCV			
28	Base return to DCV			
29	Engine pump to Base control (Pressure)			
32	Base pressure to brake override			
35	Brake override to DCV			

french
german
spanish

hydraulic hoses



french
german
spanish

hydraulic hoses

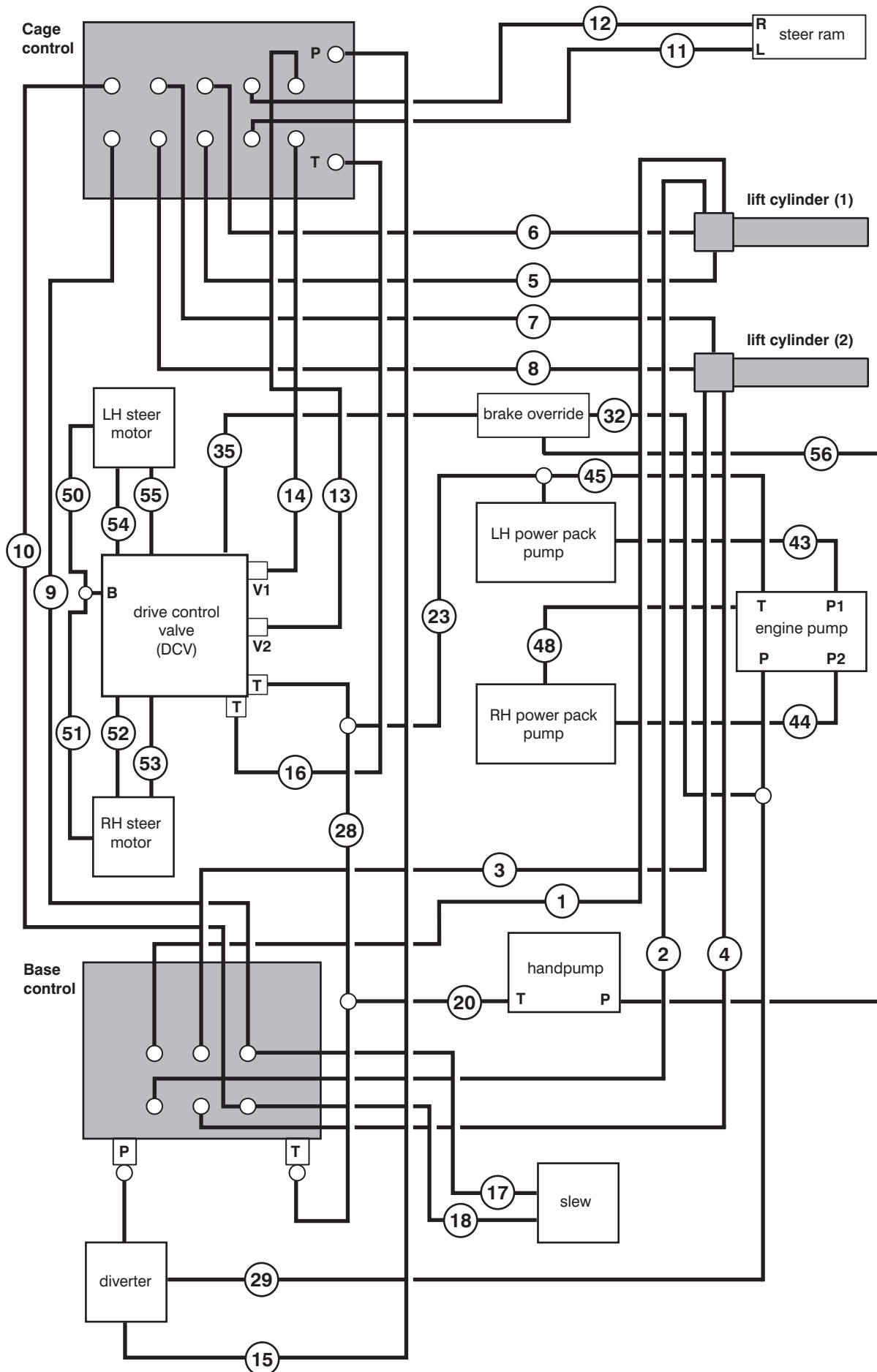
6.1 continued

Ref Number	Description	french	german	spanish
43 *	LH Power pack to engine pump (Pressure)			
44 *	RH Power pack to engine pump (Pressure)			
45 *	LH Power pack return to engine pump			
48 *	RH Power pack return to engine pump			
50	DCV (Brake) to LH steer motor			
51	DCV (Brake) to RH steer motor			
52	DCV to RH steer motor			
53	DCV to RH steer motor			
54	DCV to LH steer motor			
55	DCV to LH steer motor			
56	Handpump to brake override			

* Bi-energy machines only

french
german
spanish

hydraulic hoses



french
german
spanish

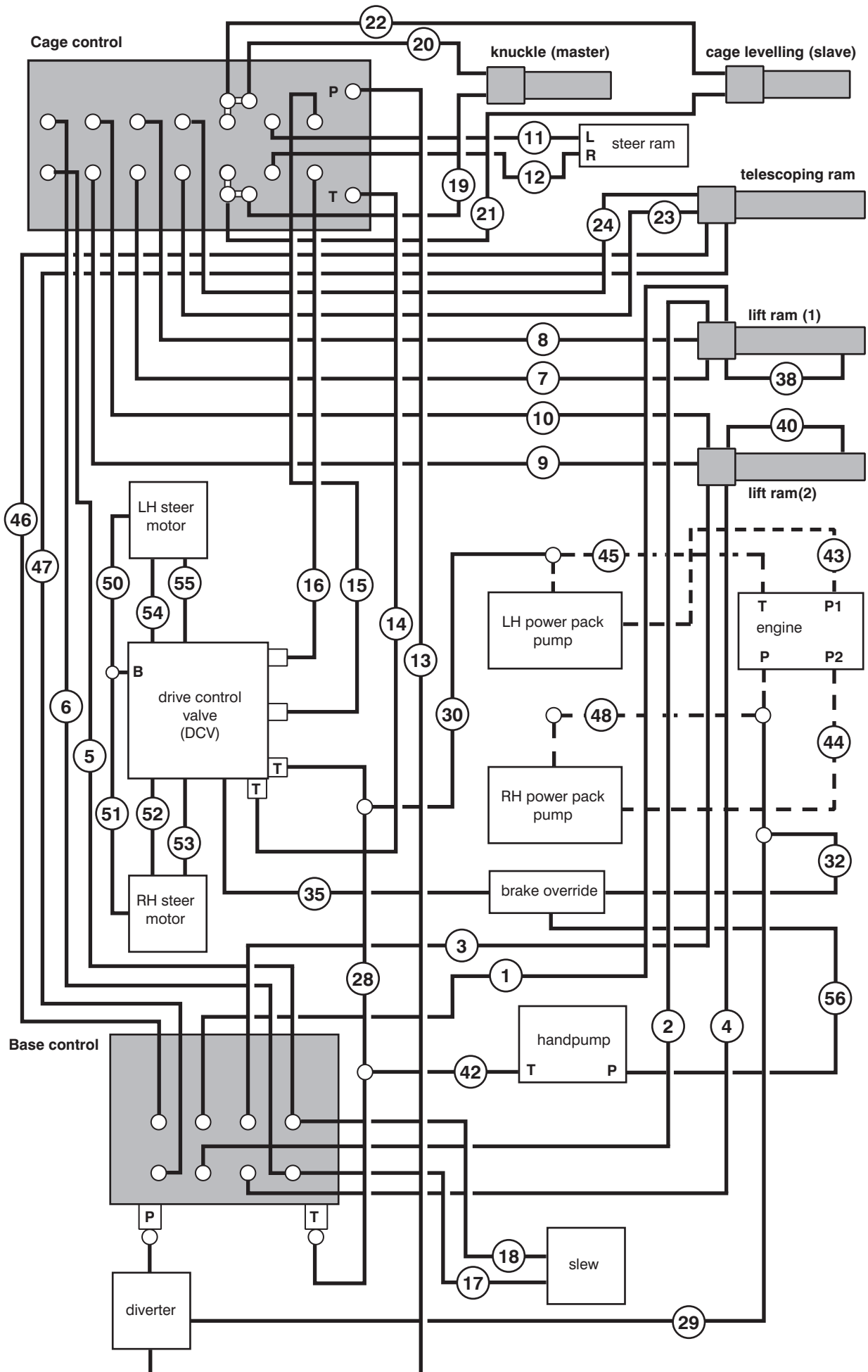
hydraulic hoses

6.2 Hose kit HR12 (SP34)

Ref Number	Description	french	german	spanish
1	Base control to Ram 1 (Pressure)			
2	Base control to Ram 1 (Pilot)			
3	Base control to Ram 2 (Pressure)			
4	Base control to Ram 2 (Pilot)			
5	Base slew to cage slew (Pressure)			
6	Base slew to cage slew (Pilot)			
7	Cage control to Ram 1 (Pressure)			
8	Cage control to Ram 1 (Pilot)			
9	Cage control to Ram 2 (Pressure)			
10	Cage control to Ram 2 (Pilot)			
11	Cage control to steer ram (Pressure)			
12	Cage control to steer ram (Pilot)			
13	Diverter valve to cage control (Pressure)			
14	Cage control to drive control valve			
15	Drive control valve to cage control (Pressure)			
16	Drive control valve to cage control (Pilot)			
17	Base control to slew (Pilot)			
18	Base control to slew (Pressure)			
19	Cage control to master levelling ram (Pressure)			
20	Cage control to master levelling ram (Pilot)			
21	Cage control to slave levelling ram (Pressure)			

french
german
spanish

hydraulic hoses



french
german
spanish

hydraulic hoses

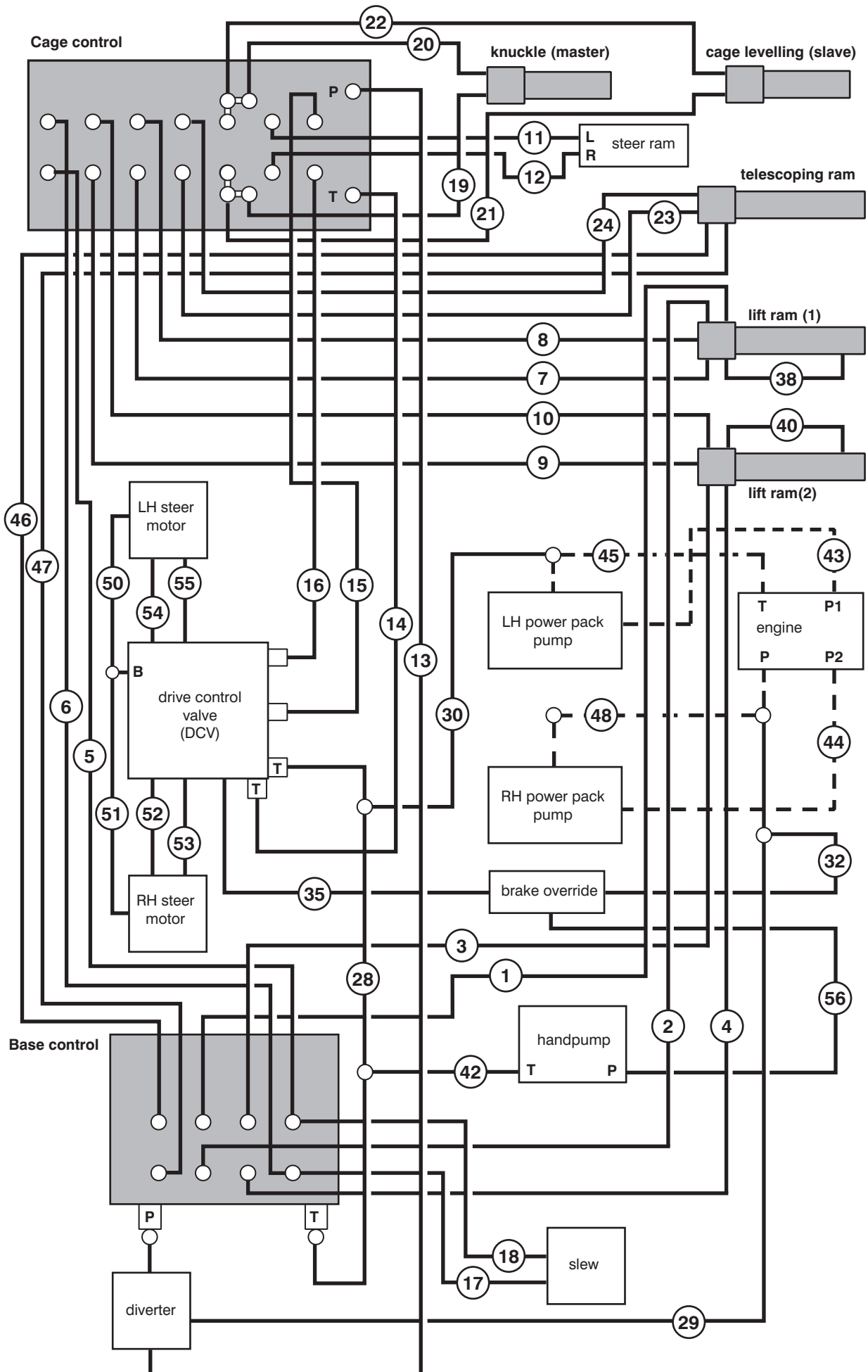
6.2 continued

Ref Number	Description	french	german	spanish
22	Cage control to slave levelling ram (Pilot)			
23	Cage control to telescopic ram (Pressure)			
24	Cage control to telescopic ram (Pilot)			
28	Base control to DCV (Return)			
29	Engine pump to Base control (Pressure)			
30	LH Power pack to drive control valve (Return)			
32	Base pressure to brake override			
35	Brake override to DCV			
38	Pilot link ram 1			
40	Pilot link ram 2			
42	Handpump to base control (Return)			
43 *	LH Power pack to engine pump (Pressure)			
44 *	RH Power pack to engine pump (Pressure)			
45 *	LH Power pack to engine pump (Return)			
46	Base control to telescopic ram (Pressure) (Option)			
47	Base control to telescopic ram (Pilot) (Option)			
48 *	RH Power pack to engine pump (Return)			

* Bi-energy machines only

french
german
spanish

hydraulic hoses



french
german
spanish

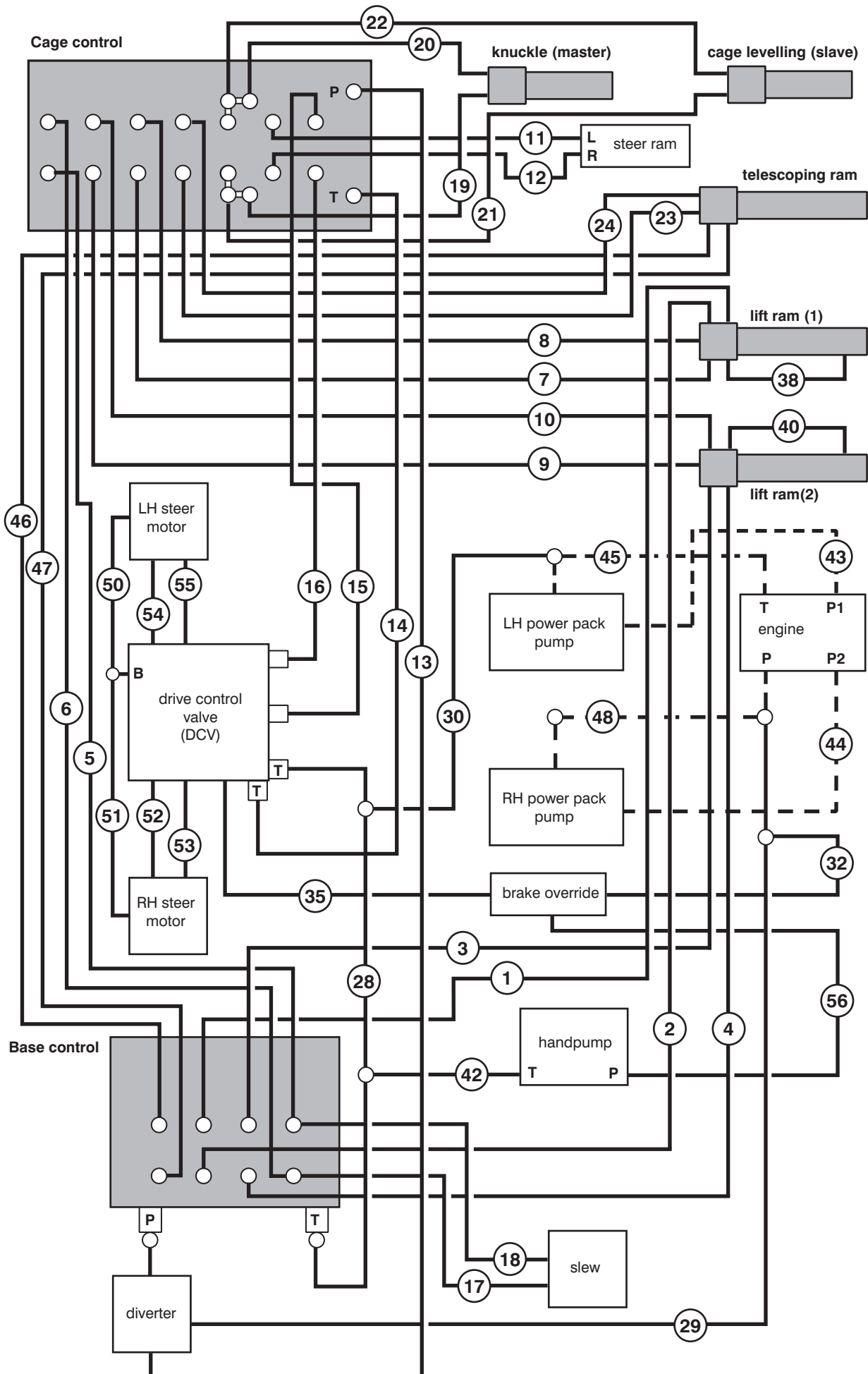
hydraulic hoses

6.2 continued

Ref Number	Description	french	german	spanish
50	DCV (Brake) to LH steer motor			
51	DCV (Brake) to RH steer motor			
52	DCV to RH steer motor			
53	DCV to RH steer motor			
54	DCV to LH steer motor			
55	DCV to LH steer motor			
56	Handpump to brake override			

french
german
spanish

hydraulic hoses



french
german
spanish

hydraulic hoses

niftylift