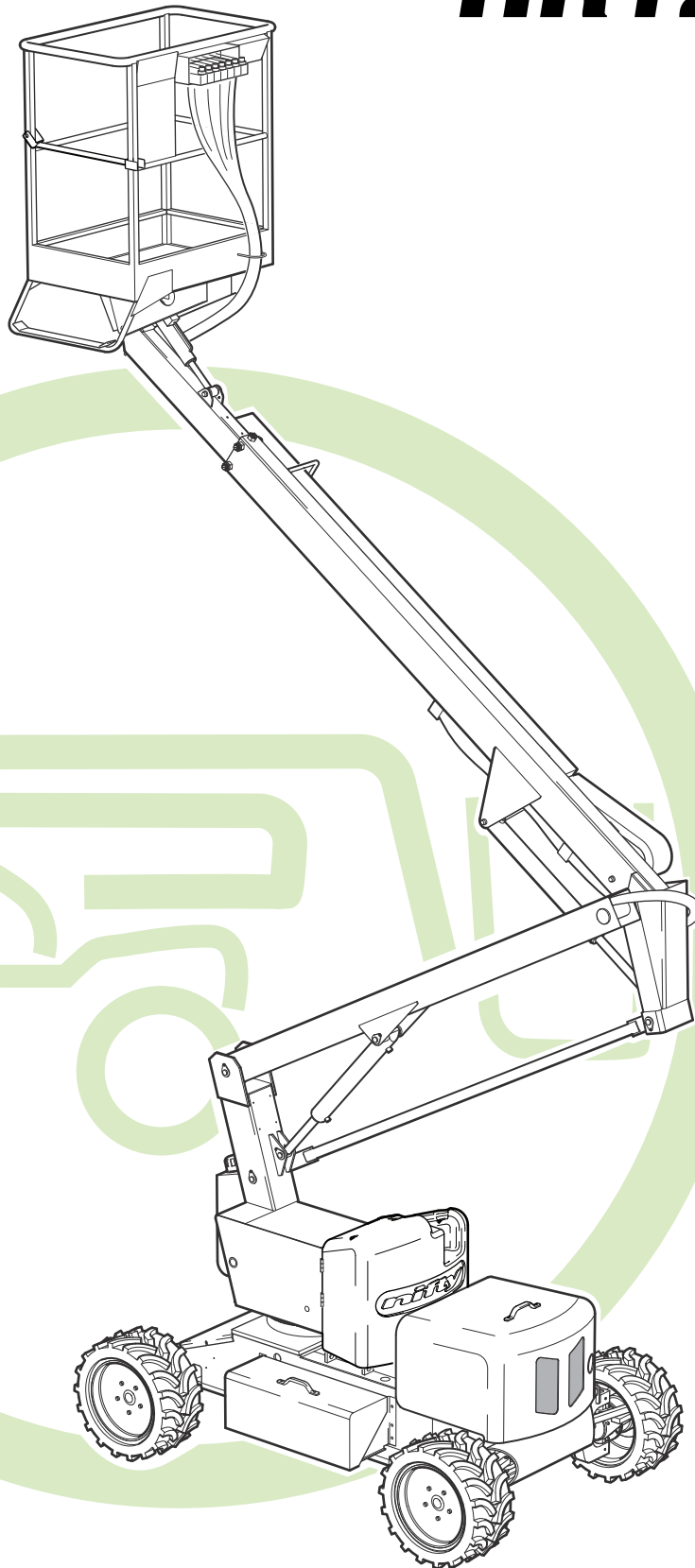




nifty

HR12 SP34 **4x4**



niftylift.com

M50191/05



Issue 5
(October 2011)

illustrated parts manual

Manuel illustré de pièces détachées

Illustrierte Stückliste

Manual de piezas ilustrado

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

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

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

Niftylift Inc.
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.

Pour toutes informations supplémentaires, veuillez nous contacter à:

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

Commande de pièces

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

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

Informations relatives à la machine

Numéro de modèle Date d'achat

Numéro de série



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

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

Niftylift Ltd.
Fingle Drive
Stonebridge
Milton Keynes
MK13 OER
Großbritannien

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

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.
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**

1

chassis

page

1.1	Base assembly	1-2
1.2	Bonnets/Covers & Guards	1-6
1.3	Front axle assembly	1-8
1.4	Power pack	1-10
1.5	Drive control valve	1-12
1.6	Diesel Engine (Part 1).....	1-14
1.7	Diesel Engine (Part 2).....	1-16
1.8	Diesel box	1-18
1.9	Anderson connector.....	1-20

2

superstructure

page

2.1	Control station - Base	2-2
2.2	Slew assembly.....	2-4
2.3	Control valve assembly (3 spool).....	2-6
2.4	Button box assembly.....	2-8
2.5	Control box	2-10
2.6	Dual voltage charger box	2-12
2.7	Battery charger	2-14

3

boom assemblies

page

3.1	Booms assembly	3-2
3.2	Lift cylinder	3-6
3.3	Levelling cylinder	3-8
3.4	Telescope cylinder	3-10
3.5	Energy chain	3-12

4

cage

page

4.1	Cage assembly.....	4-2
4.2	Cage weigh assembly - Mechanical	4-4
4.3	Control box - Cage	4-6
4.4	Control valve - Cage.....	4-8

5

labelling

page

5.1	Label locations	5-2
5.2	Label locations SP34 (USA)	5-16

Figures

page

1.1	Base assembly	1-3
1.2	Bonnets/Covers & Guards	1-7
1.3	Front axle assembly	1-9
1.4	Power pack	1-11
1.5	Drive control valve	1-13
1.6	Diesel Engine (Part 1)	1-15
1.7	Diesel Engine (Part 2)	1-17
1.8	Diesel box.....	1-19
1.9	Anderson connector.....	1-21
2.1	Control station - Base.....	2-3
2.2	Slew assembly	2-5
2.3	Control valve assembly (3 spool).....	2-7
2.4	Button box assembly.....	2-9
2.5	Control box.....	2-11
2.6	Dual voltage charger box.....	2-13
2.7	Battery charger	2-15
3.1	Booms assembly.....	3-3
3.2	Lift cylinder	3-7
3.3	Levelling cylinder.....	3-9
3.4	Telescope cylinder	3-11
3.5	Energy chain	3-13
4.1	Cage assembly.....	4-3
4.2	Cage weigh assembly - Mechanical	4-5
4.3	Control box - Cage	4-7
4.4	Control valve - Cage.....	4-9
5.1	Label locations	5-3
5.2	Label locations SP34 (USA)	5-17
5.3	Labels (1-32).....	5-18
5.4	Labels (33-42).....	5-19

table des matières
inhaltsverzeichnis
tabla del contenido



Issue Records

Chapter	Pages	Issue	Date	Comments/Changes
Introduction	8	5	10/2011	Fifth issue
1	22	4	10/2011	Revised for 'Diesel Engine' (Pages 1-14 to 1-17)
2	16	3	07/2010	Revised for 'Button box' (Pages 2-8/9)
3	14	4	10/2011	Revisions on pages 3-6/7
4	10	4	04/2012	Revised for 'Control Valve' (Page 4-8)
5	20	2	12/2007	Second 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



nifty



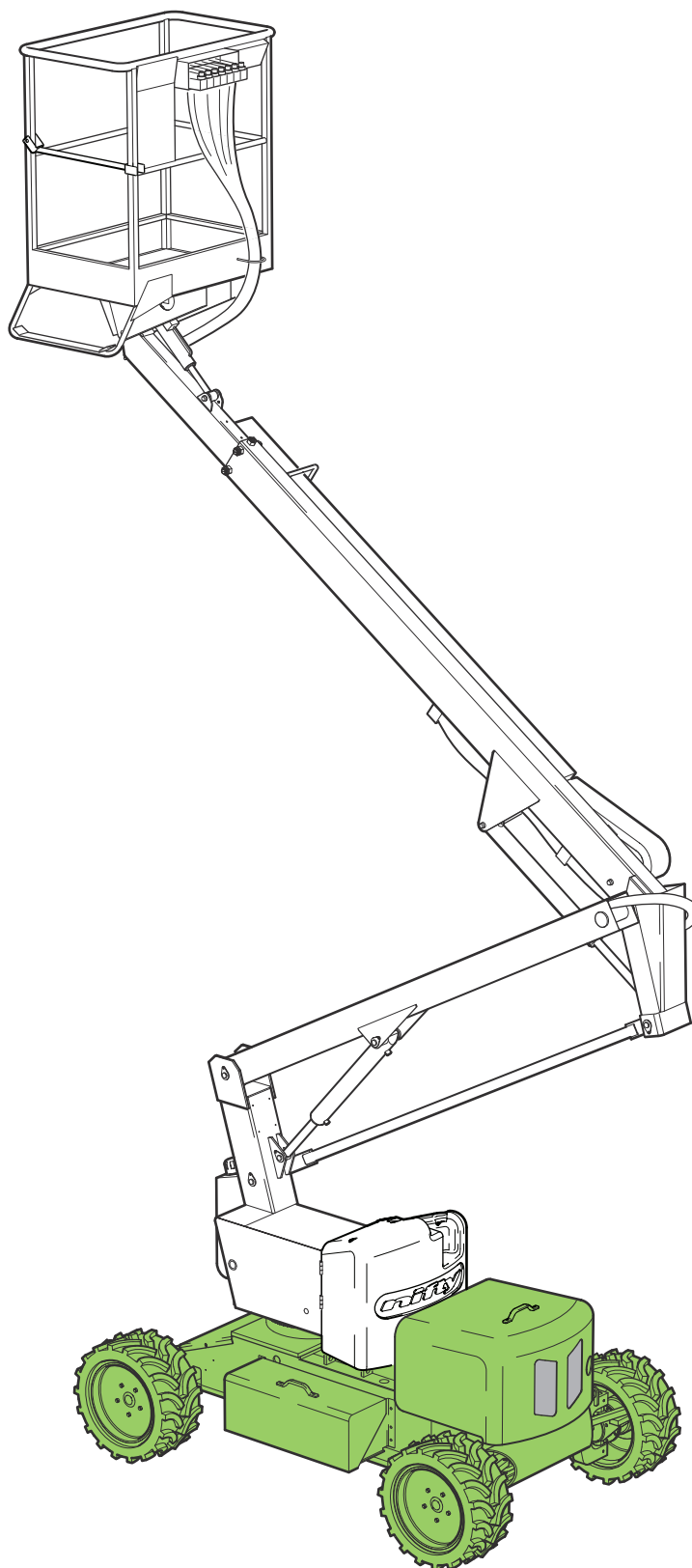
HR12 (SP34) 4x4

illustrated parts manual

Manuel illustré de pièces détachées

Illustrierte Stückliste

Manual de piezas ilustrado



1

chassis assembly

french

german

spanish



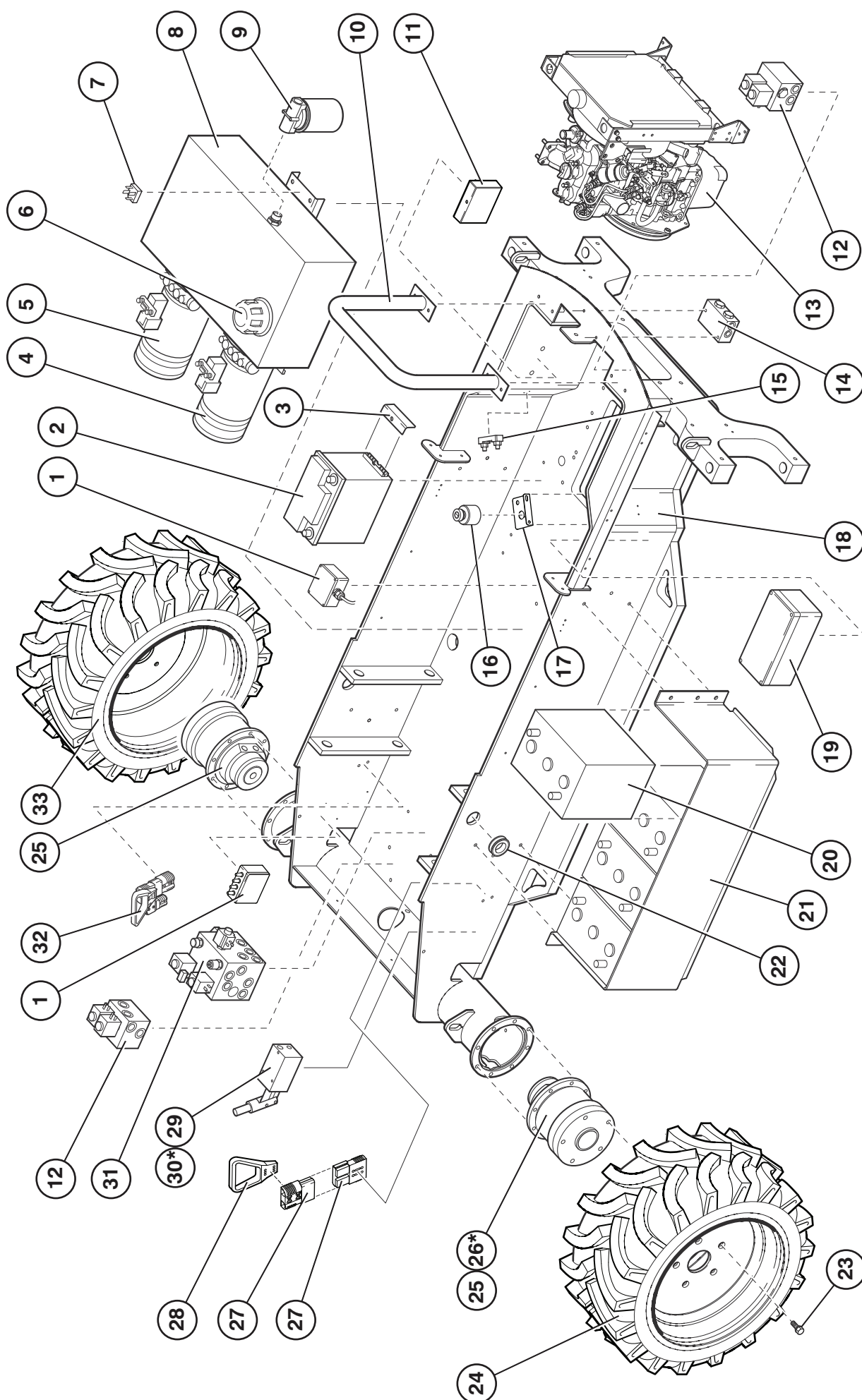
1.1 Base assembly

Item	Description				Part Number
1	Junction box				P16442
2	Battery - 12v				P11975
3	Battery clamp				P12295
4	Power pack RH (2.2cc pump) - See "Power pack" on page 1-10.				P21689
5	Power pack LH (1.2cc pump) - See "Power pack" on page 1-10.				P21688
6	Filler cap and filter Dipstick				P10136 P11643
7	Bridge rectifier				P15763
8	Hydraulic oil tank Bi-energy Diesel only				P17151 P18696
9	Hyd oil filter assy. Cartridge ONLY				P10137 P10766
10	Guard - Radiator				P18760
11	Regulator (Bi-energy only)				P13637
12	Flow divider				P18067
13	Diesel engine See "Diesel engine (Part 1)" on page 1-14.				P20580
14	Brake valve				P18333
15	Fuse - 125A Fuse Holder				P12696 P11976
16	Key switch				P14428
17	Bracket - Key switch				P16352
18	Chassis				P17143
19	Diesel control box - See "Diesel box" on page 1-18.				P13627
20	Battery (Bi-energy only)				P10829

* Not illustrated

french
german
spanish

chassis assembly



french
german
spanish

chassis assembly

Figure 1.1 Base Assembly

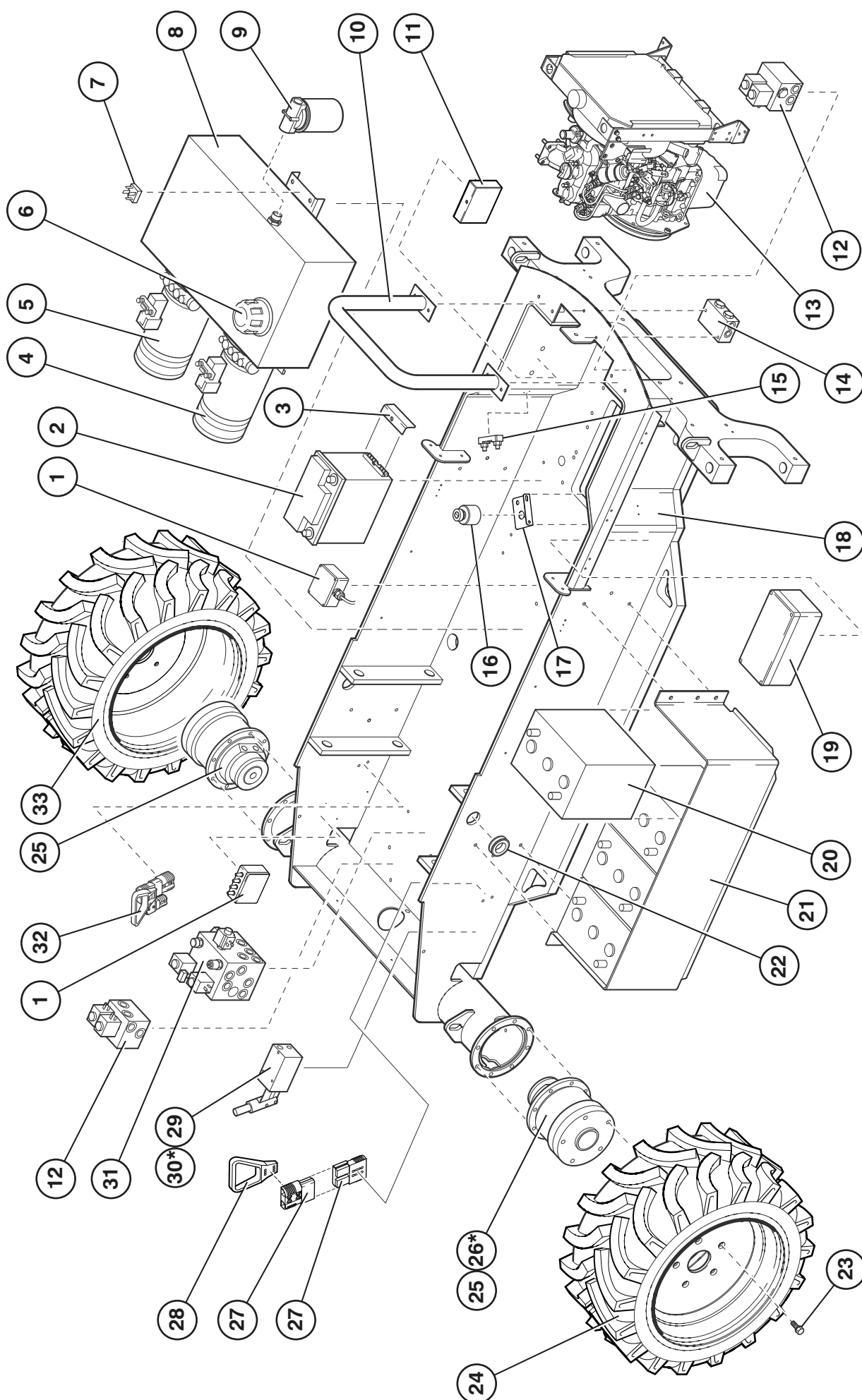
1.1 continued

Item	Description				Part Number
21	Battery carrier (Bi-energy only)				P10786
*	Ballast weight <i>Diesel Only</i>				P18697
22	Grommet				P11283
23	Wheel bolt				P22001
24	Wheel & Tyre RH Non-marking RH				P18367 P19041
25	Gearbox				P15698
26 *	Seal kit for item 25				P18126
27	2-pole anderson				P17083
28	Handle - Anderson				P17084
29	Manual hand pump				P12422
30 *	Seal kit for item 29				P12906
31	Drive control valve - See "Drive control valve" on page 1-12.				P19617
32	Anderson connectors See "Anderson con- nector" on page 1-20.				N/A
33	Wheel & Tyre LH Non-marking LH				P18366 P19040

* Not illustrated

french
german
spanish

chassis assembly



french
german
spanish

chassis assembly

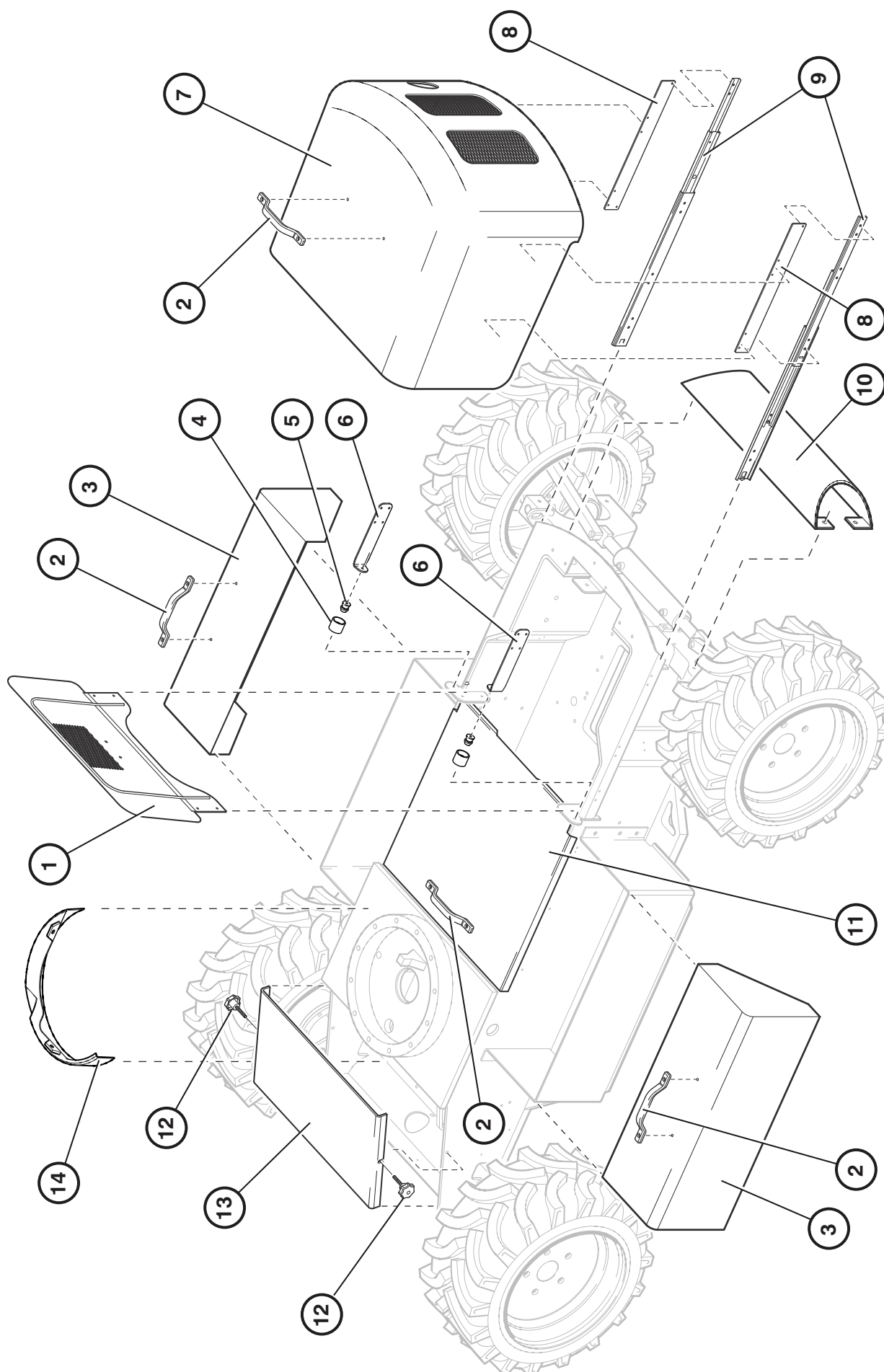
1-5

1.2 Bonnets/Covers/Guards

Item	Description				Part Number
1	Sound baffle				P17066
2	Handle				P10241
3	Battery cover				P10822
4	Latch - Female				P13815
5	Latch - Male				P13814
6	Bracket - Male latch				P20082
7	Front canopy				P19183
8	Mounting plate				P19676
9	Drawer slider (Pair)				P19675
10	Cover - Steer cyl.				P12192
11	Middle bonnet				P17945
12	Knob (M10 x 20)				P14482
13	Rear bonnet				P17145
14	Slew Guard				P20084

french
german
spanish

chassis assembly



french
german
spanish

chassis assembly

1-7

Figure 1.2 Bonnets/covers and guards

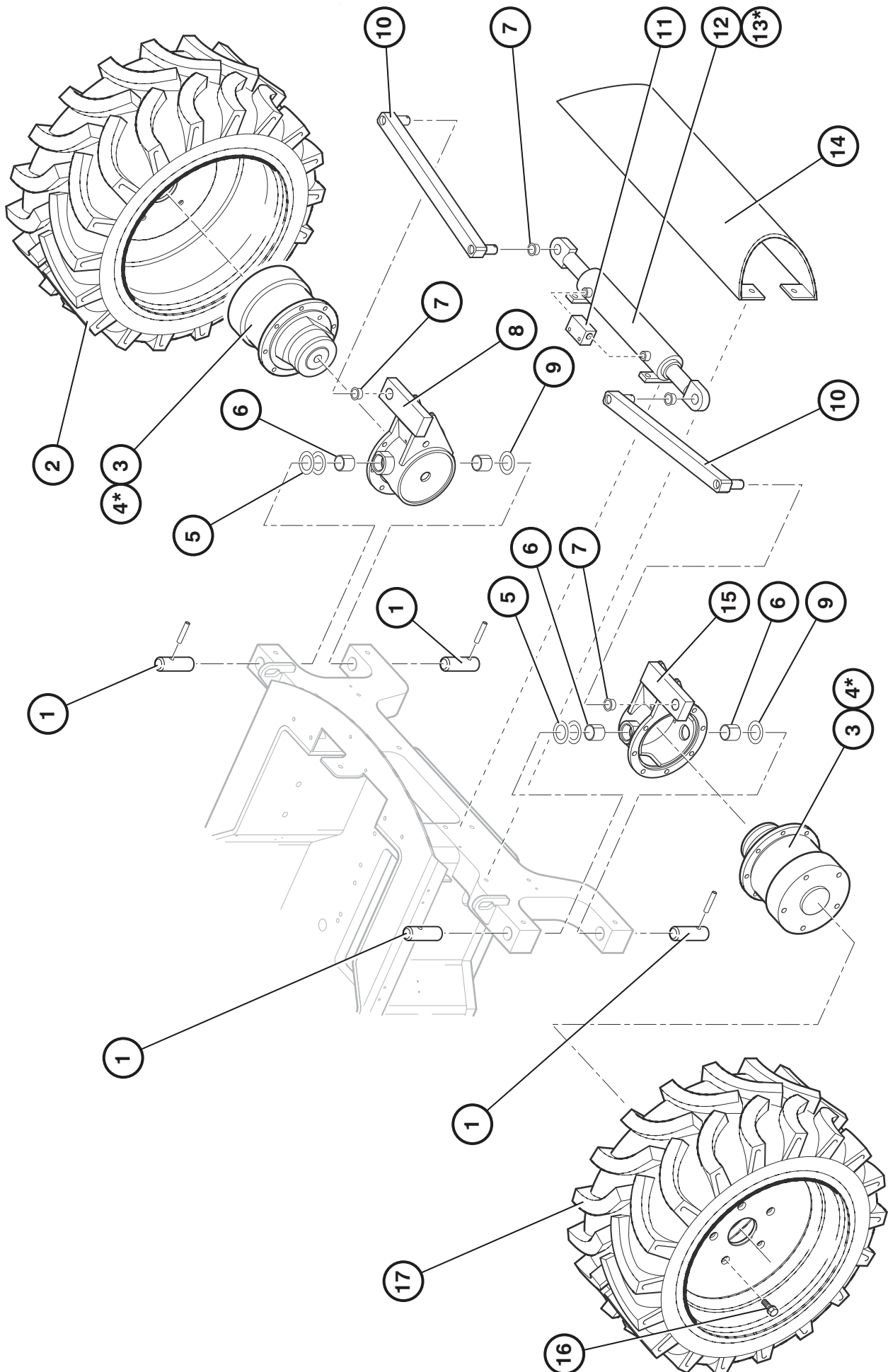
1.3 Front axle assembly

Item	Description	Part Number			
1	Pin - 90mm				P16220
2	Wheel & Tyre LH Non-marking LH				P18366 P19040
3	Gearbox				P15698
4 *	Seal kit for item 3				P18126
5	Washer				P16062
6	Bush DU3030				P10880
7	Bush				P12320
8	Steer Hub LH				P15811
9	Washer - Plastic				P10511
10	Track rod				P17144
11	Valve - Shuttle				P12882
12	Steer cylinder				P20407
13 *	Seal kit for item 12				P13047
14	Cover				P12192
15	Steer Hub RH				P15812
16	Wheel bolt (86Nm Torque)				P22001
17	Wheel & Tyre RH Non-marking RH				P18367 P19041

* Not illustrated

french
german
spanish

chassis assembly



french
german
spanish

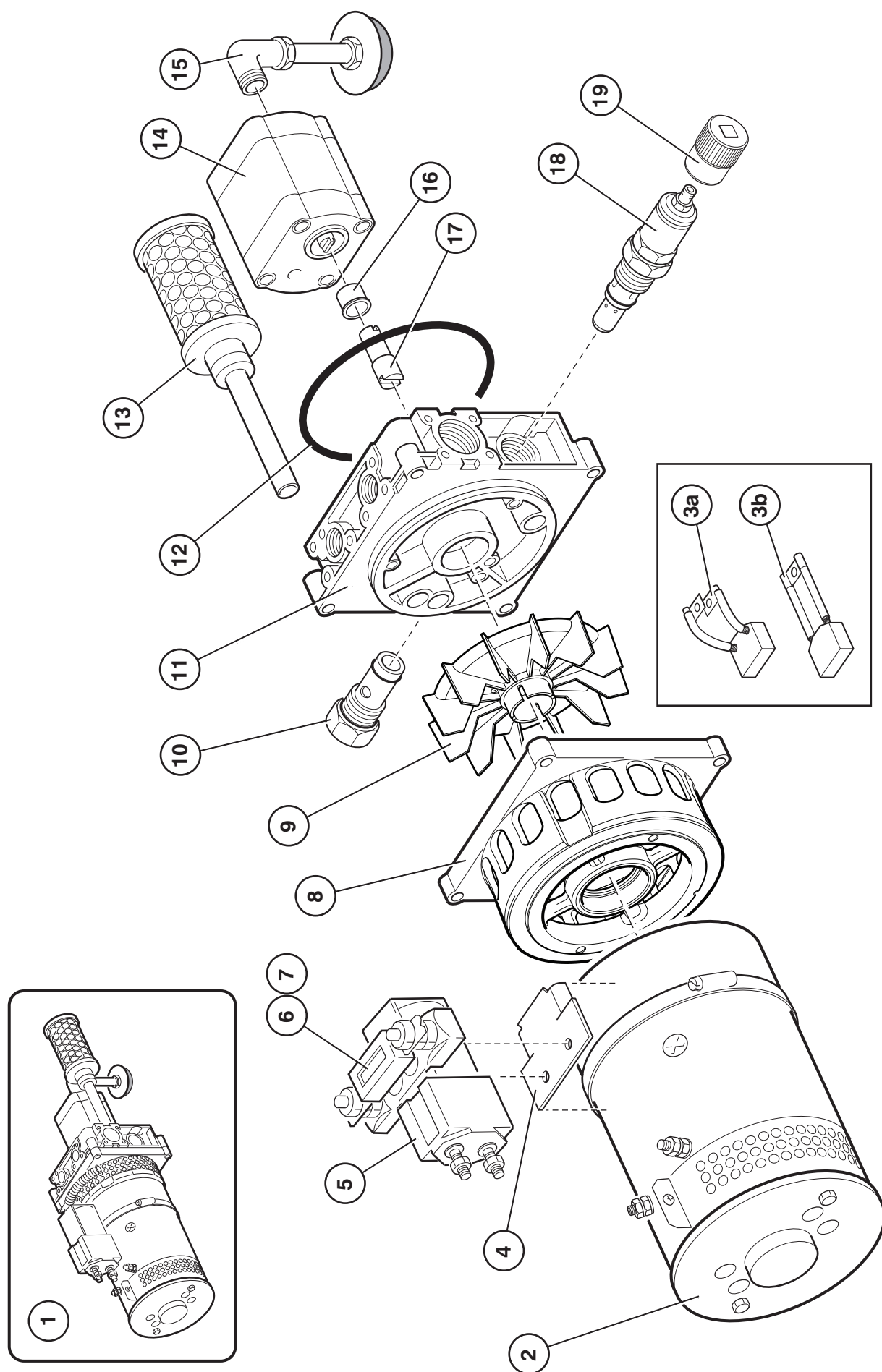
chassis assembly

1-9

Figure 1.3 Front axle assembly

1.4 Power pack

Item	Description				Part Number
1	Power pack assembly 1.2cc 2.2cc				P21688 P21689
2	Motor				P16611
3	Brushes for item 2 a) Brush/Spring set b) Brush set				P16703 P21151
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	Bush (Plastic)				P26385
17	Coupling				P20063
18	Relief valve kit				P16613
19	Cap				P16615



french
german
spanish

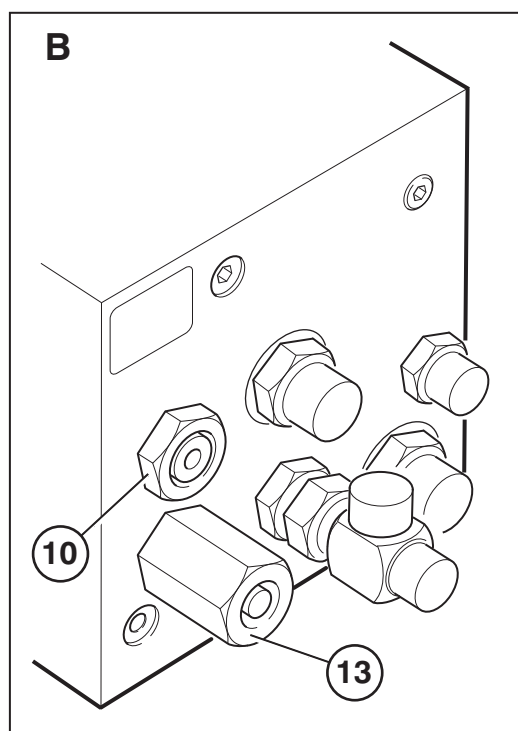
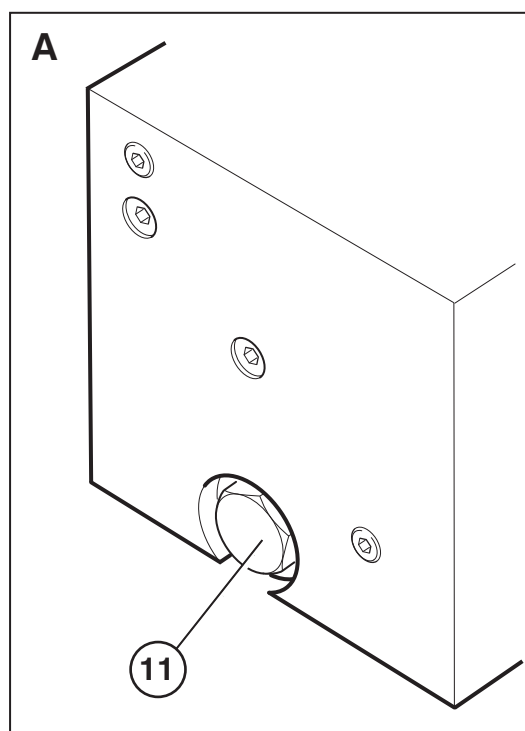
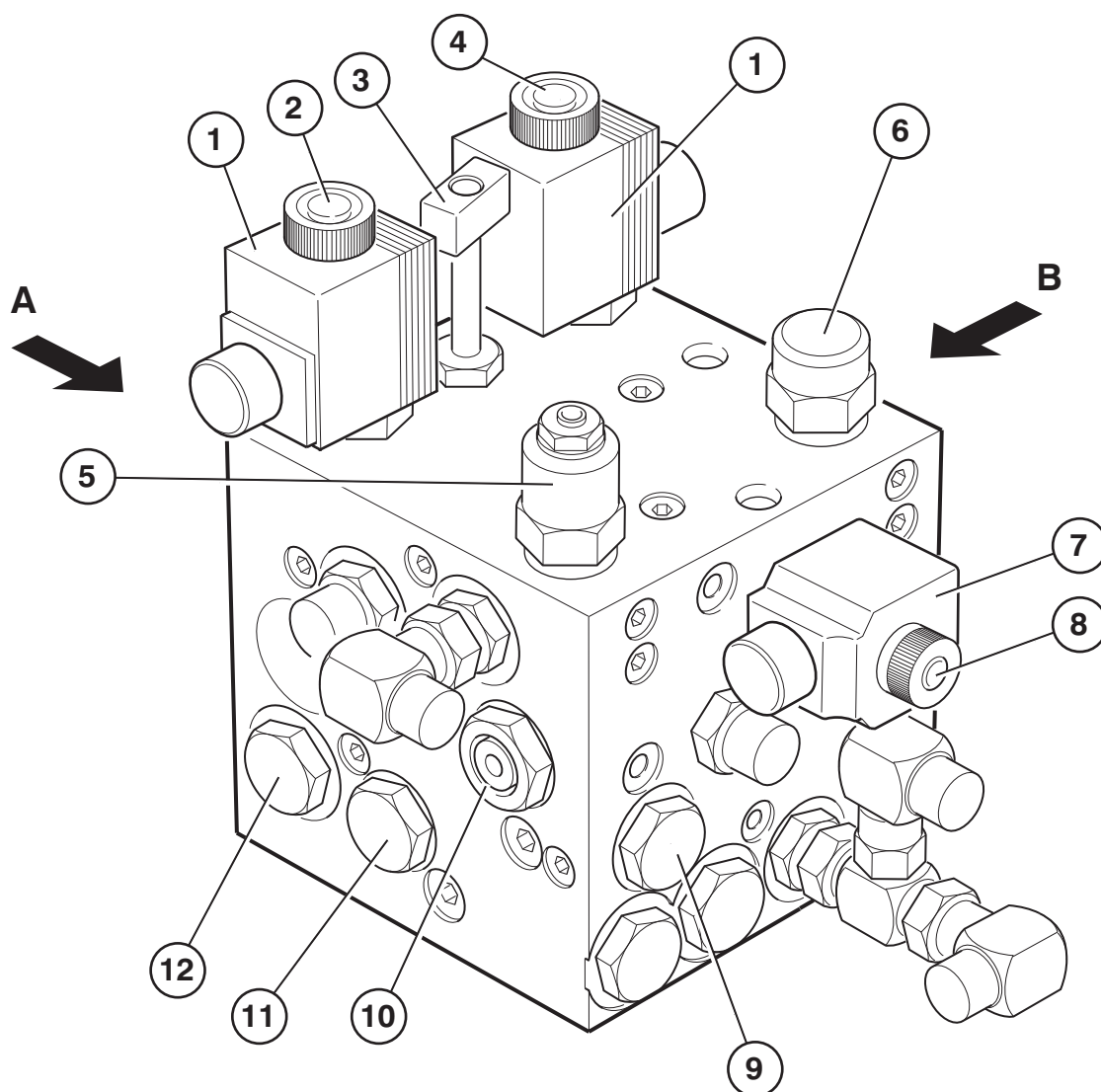
chassis assembly

1.5 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

french
german
spanish

chassis assembly



french
german
spanish

chassis assembly

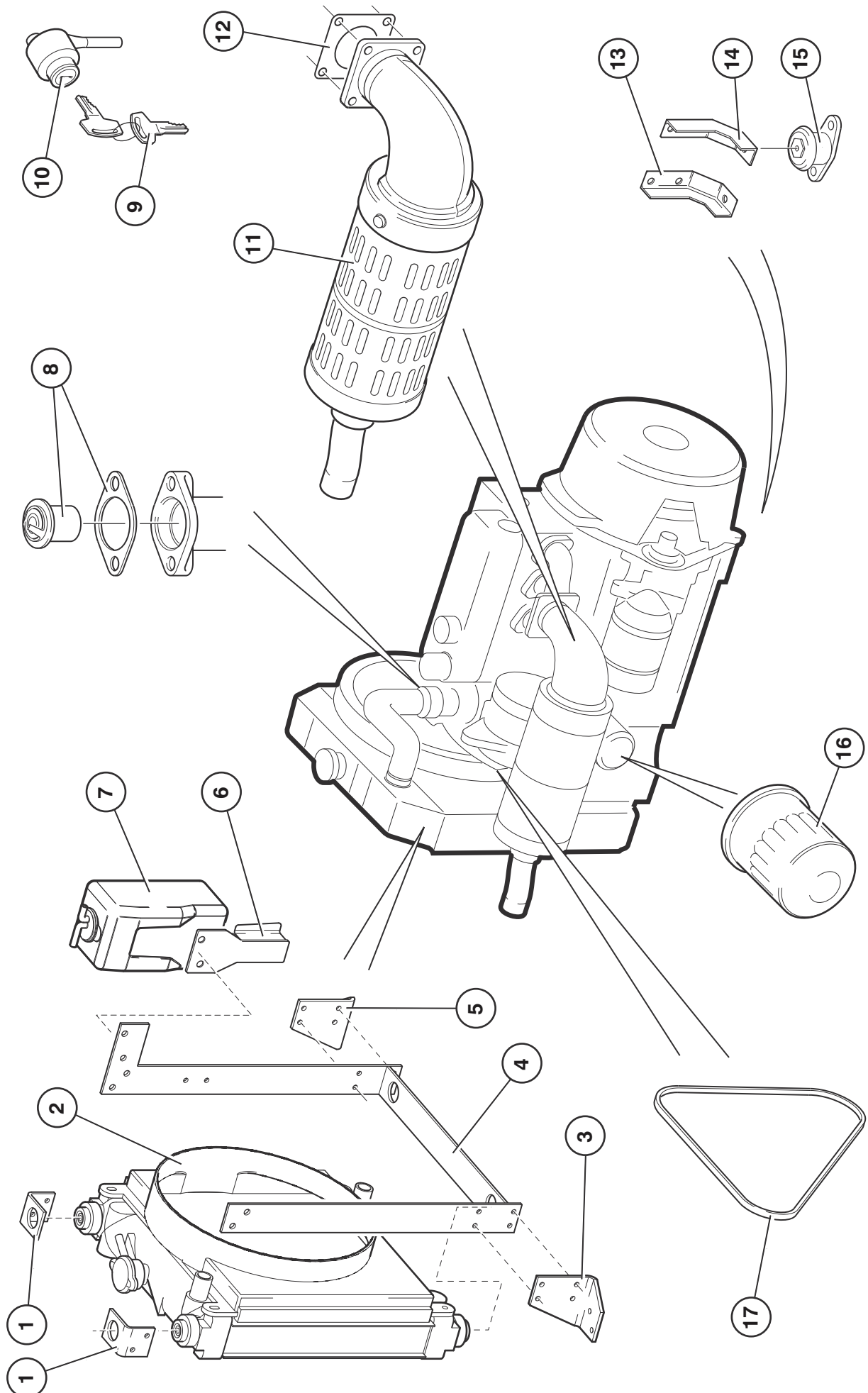
1-13

1.6 Diesel engine (Part 1)

Item	Description				Part Number
	Diesel engine				P20580
1	Upper bracket				P19240
2	Radiator assembly				P19494
3	Lower bracket RH				P19360
4	Bracket - Radiator				P19239
5	Lower bracket LH				P19359
6	Bracket - Bottle				P19258
7	Expansion bottle Filler cap ONLY				P19270 P24941
8	Thermostat and gasket				P14620
9	Starter key (Pair)				P11646
10	Starter switch assembly				P14428
11	Muffler assembly				P16051
12	Muffler gasket				P13282
13	Bracket - Engine mount RH Rear, LH Front				P12185
14	Bracket - Engine mount LH Rear, RH Front				P12825
15	Engine mounting				P14484
16	Oil filter cartridge				P13285
17	V-belt				P13281

french
german
spanish

chassis assembly



french
german
spanish

chassis assembly

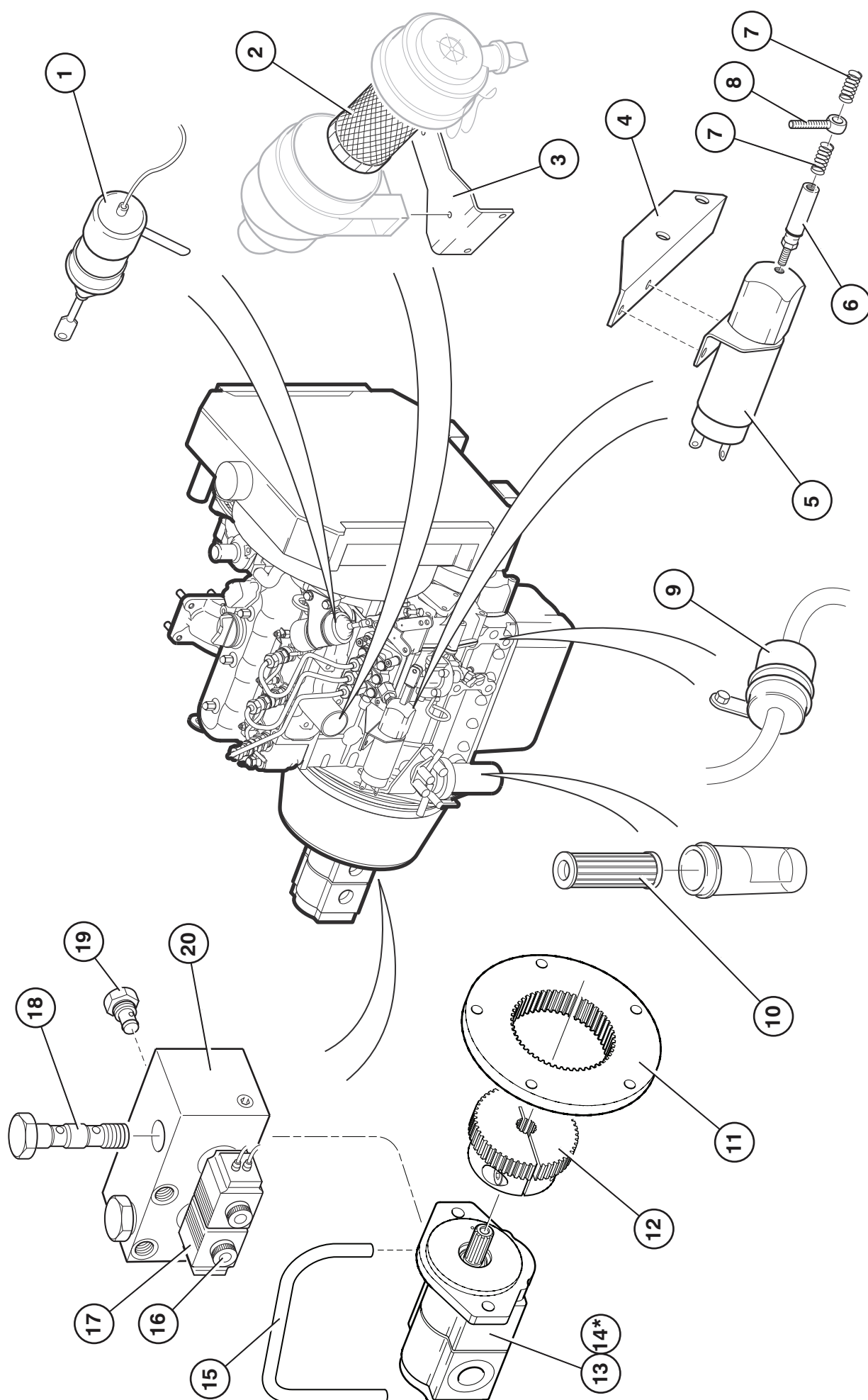
1.7 Diesel engine (Part 2)

Item	Description	Part Number			
1	Stop solenoid				P70271
2	Air filter				P17809
3	Bracket - Air filter				P20281
4	Bracket - Solenoid				P12571
5	Throttle solenoid				P12972
6	Swivel				P19279
7	Spring				P19281
8	Eye bolt				P19280
9	In-line fuel filter				P13324
10	Fuel filter				P13339
11	Drive flange				P20282
12	Drive hub				P20283
13	Pump assembly				P17139
14 *	Seal kit for item 13				P13367
15	Pipe				P18727
16	Valve cartridge - SH IH				P11927 P16775
17	Coil - SH IH				P11370 P17947
18	Banjo bolt				P11948
19	Check valve - SH IH				P11928 P17946
20	Manifold assembly				P11943

* Not illustrated

french
german
spanish

chassis assembly



french
german
spanish

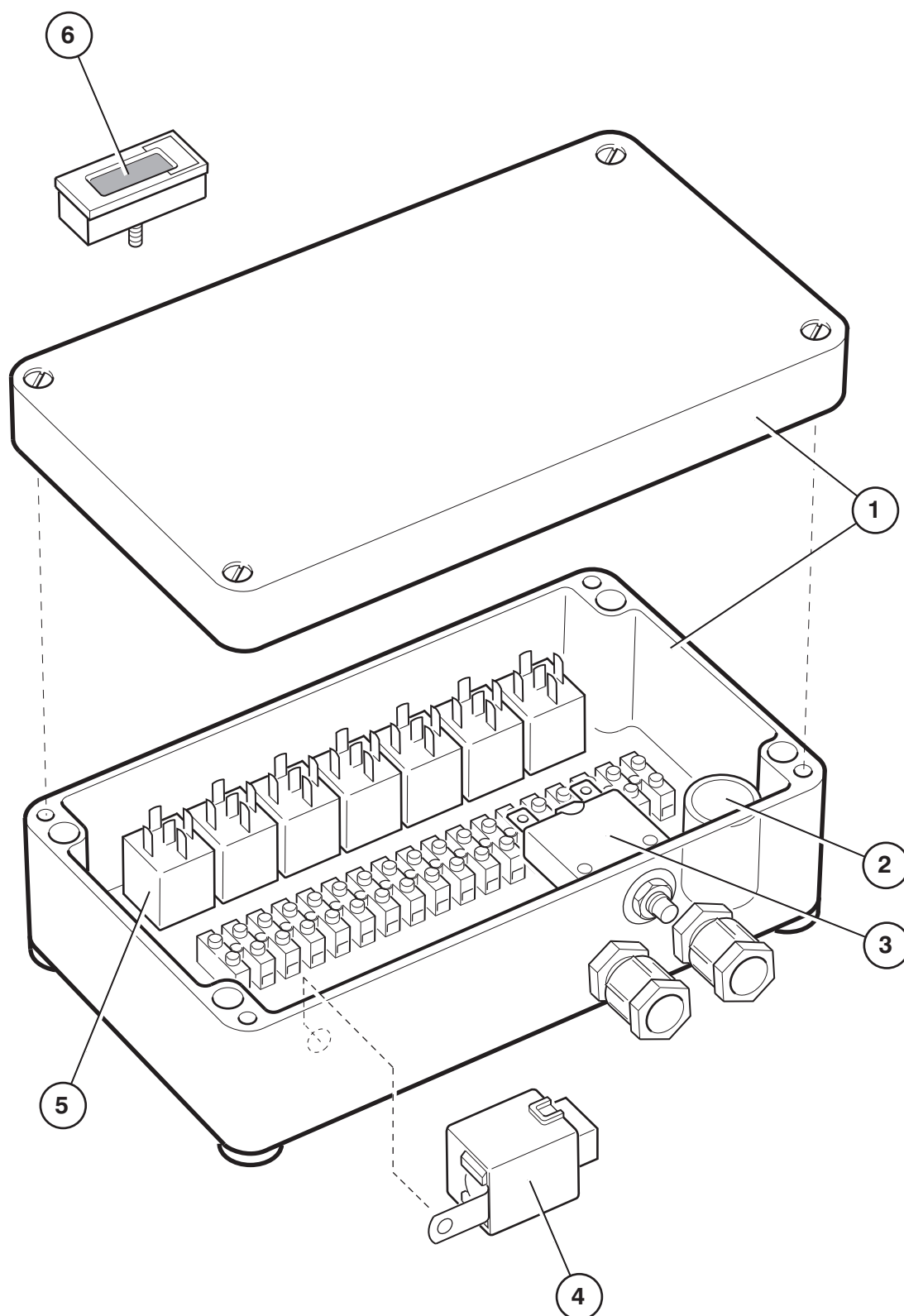
chassis assembly

1.8 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

french
german
spanish

chassis assembly



french
german
spanish

chassis assembly

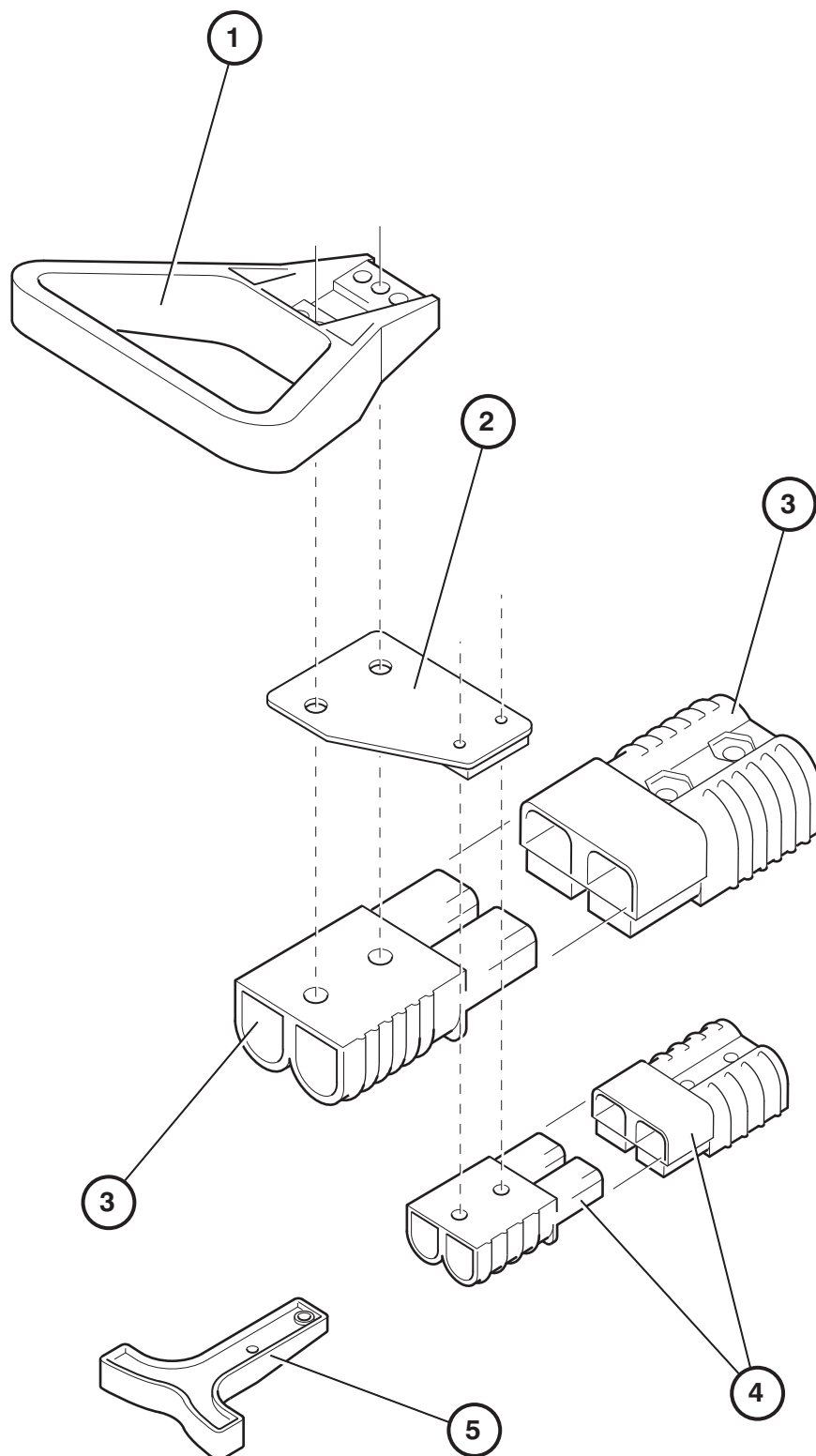
1-19

1.9 Anderson connector

Item	Description				Part Number
1	Handle				P17084
2	Mounting plate				P15271
3	Connector - 24v				P17083
4	Connector - 12v				P17085
5	Handle				P16942

french
german
spanish

chassis assembly



french
german
spanish

chassis assembly



nifty



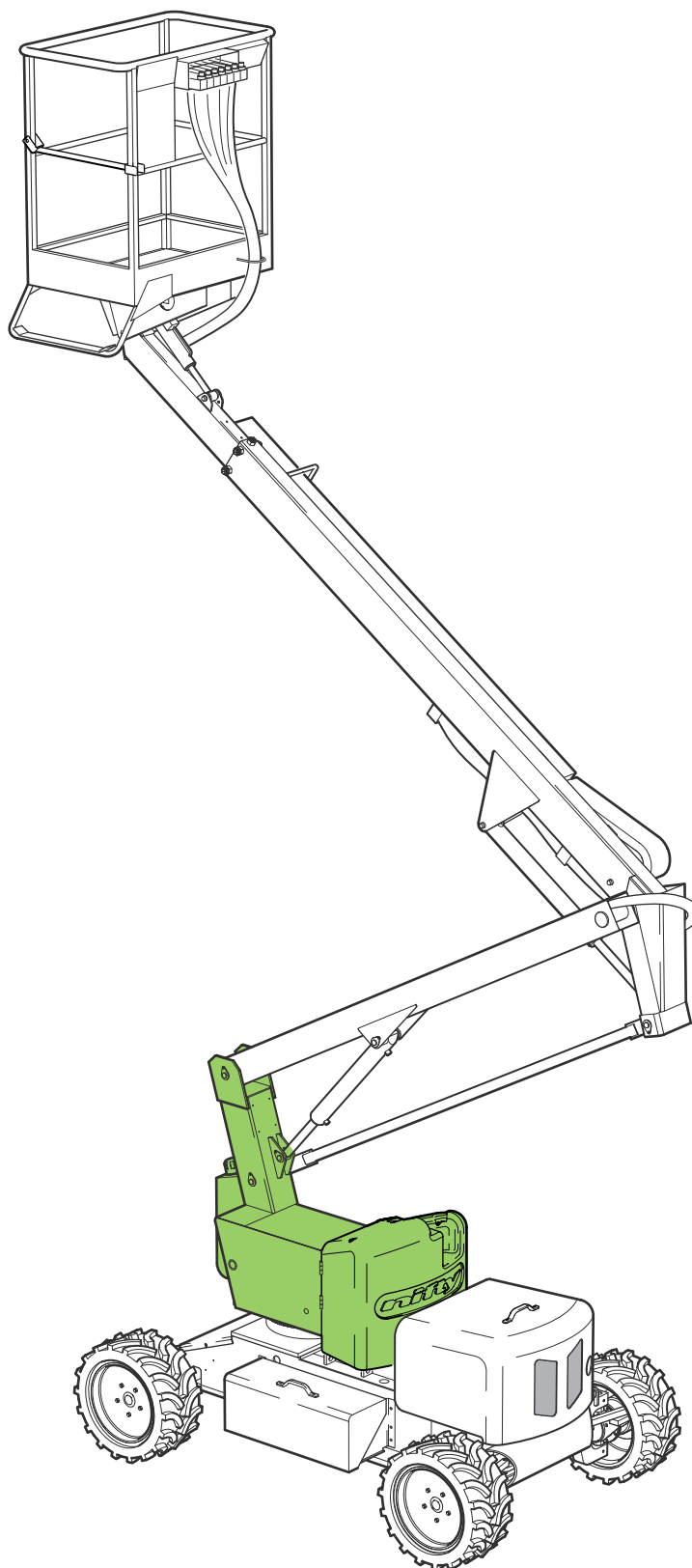
HR12 (SP34) 4x4

illustrated parts manual

Manuel illustré de pièces détachées

Illustrierte Stückliste

Manual de piezas ilustrado



2



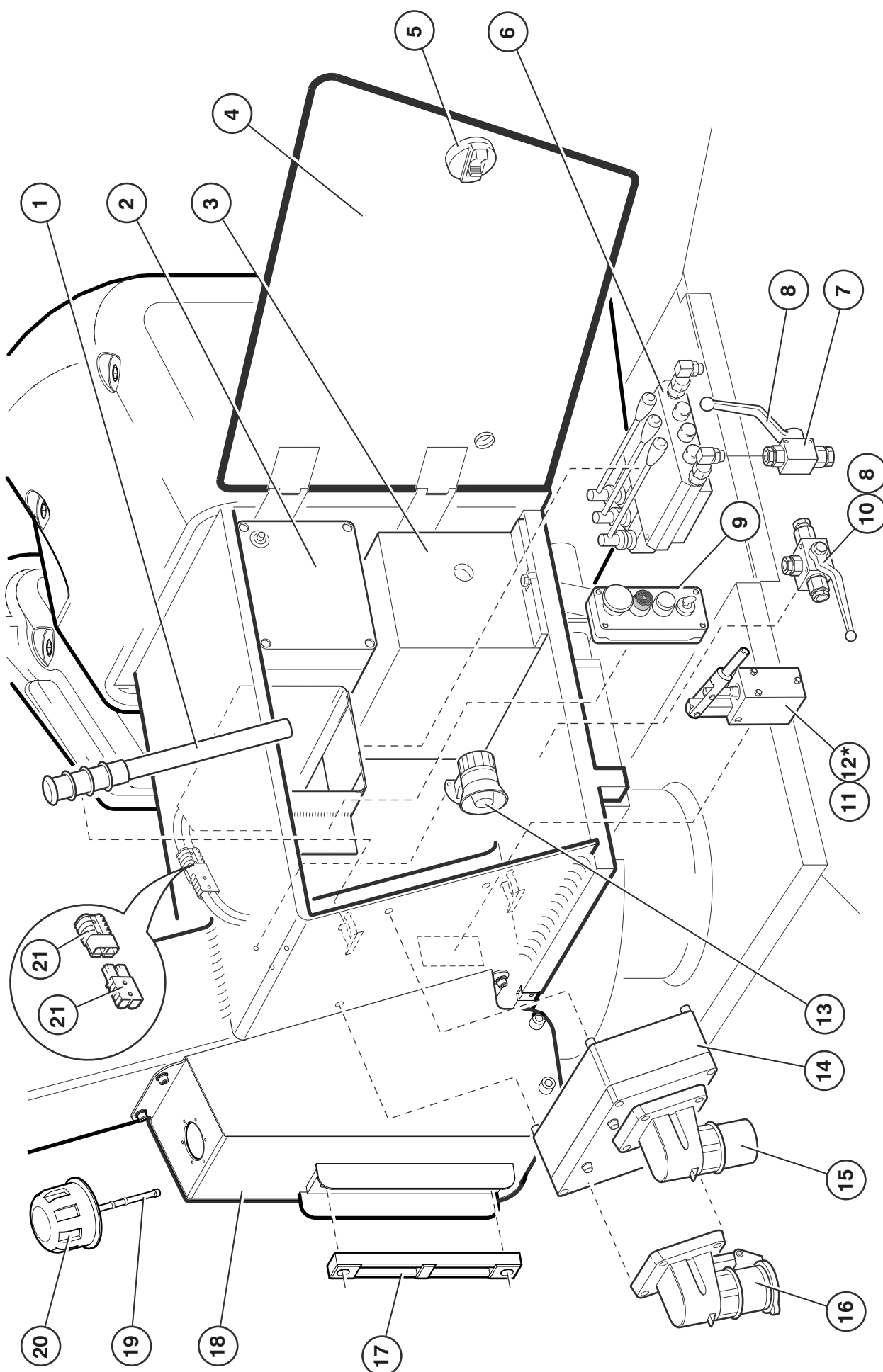
superstructure

french
german
spanish

2.1 Control station - Base

Item	Description				Part Number
1	Handle (for item 11)				P10624
2	PCB Control box See "Control box" on page 2-10.				P17135 or P16440
3	Battery Charger UK USA European See "Battery charger" on page 2-14.				P12759 P11751 P11067
4	Access cover				P20108
5	Door latch				P12397
6	Control valve See "Control valve assembly (3 spool)" on page 2-6.				P15514
7	Diverter valve (3/8")				P10702
8	Lever ONLY (for items 7 & 10)				P14397
9	Button box - See "Button box assembly" on page 2-8.				N/A
10	Diverter valve (1/4")				P16050
11	Manual hand pump				P22570
12 *	Seal kit for item 11				P22605
13	Siren				P11113
14	Dual voltage box - See "Dual voltage charger box" on page 2-12.				P10599
15	110v inlet ONLY				P23869
16	240v inlet ONLY				P23870
17	Level gauge				P13252
18	Fuel tank				P20015
19	Dipstick				P11643
20	Filler cap				P13437
21	Anderson connector (12v)				P17085

* Not illustrated



french
german
spanish

superstructure

Figure 2.1 Control station - Base

2.2 Slew assembly

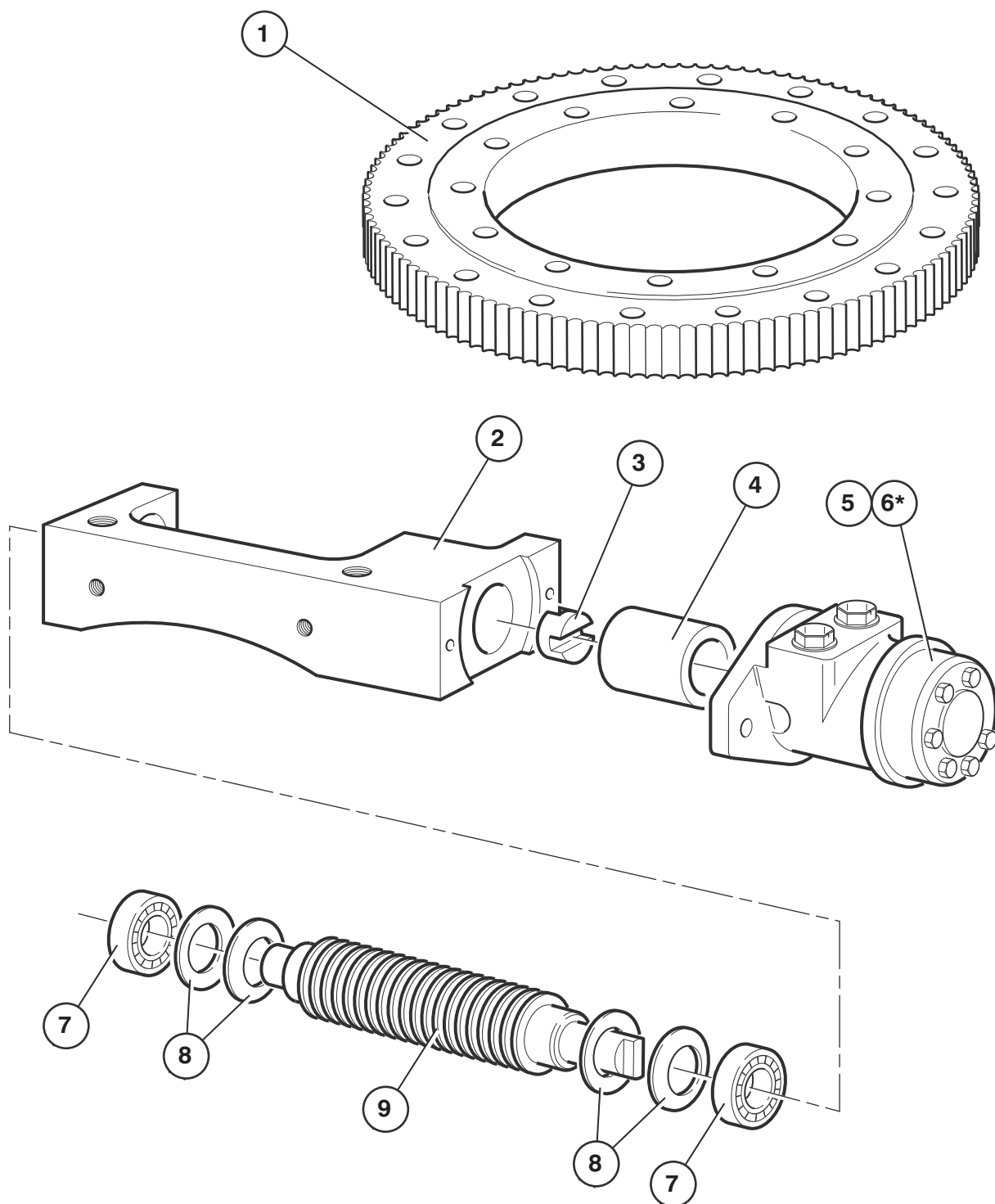
Item	Description				Part Number
	Complete assembly (Item 1 not included)				P19498
1	Slew ring				P12452
2	Worm bracket				P12681
3	Coupling				P12145
4	Spacer				P12143
5	Motor				P14306
6 *	Seal kit for item 5				P13242
7	Bearing				P12703
8	Belleville washer				P12150
9	Worm gear				P14502

* Not illustrated

french
german
spanish

superstructure

2-4



french
german
spanish

superstructure

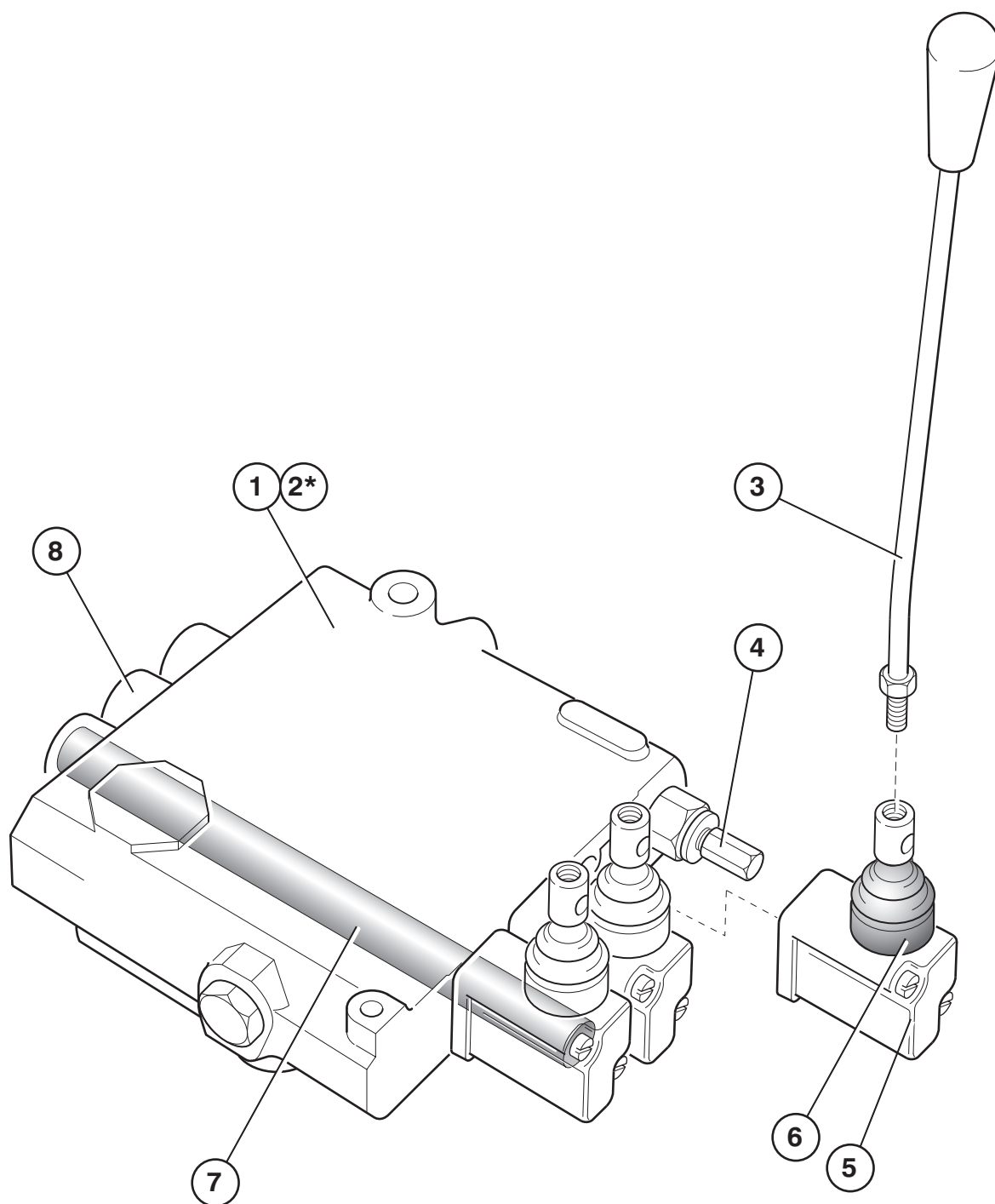
2.3 Control valve assembly (3 spool)

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 AST				P15510 P15511
8	Spool return spring assembly				P16234

* Not illustrated

french
german
spanish

superstructure



french
german
spanish

superstructure

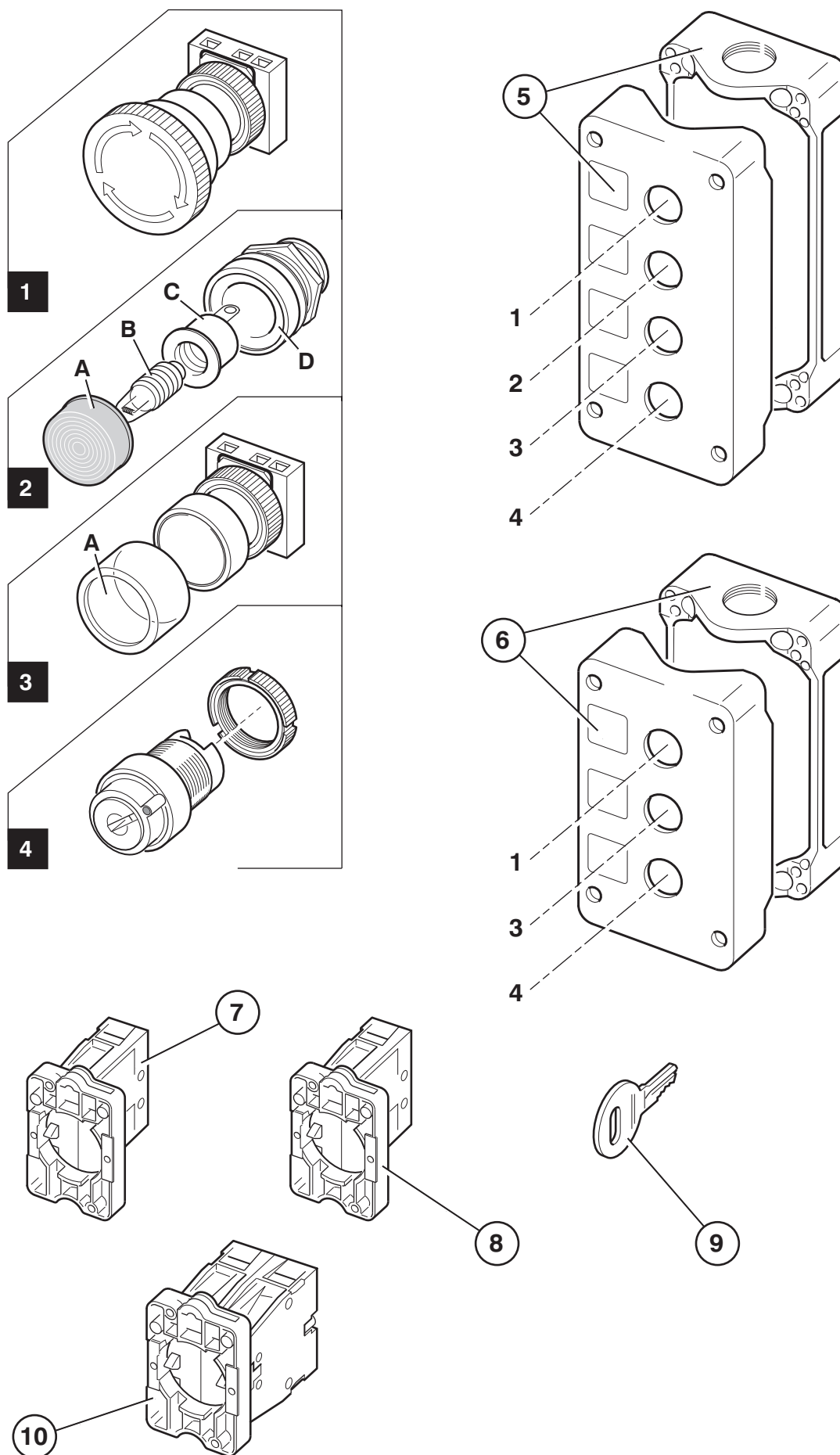
2-7

2.4 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

french
german
spanish

superstructure



french
german
spanish

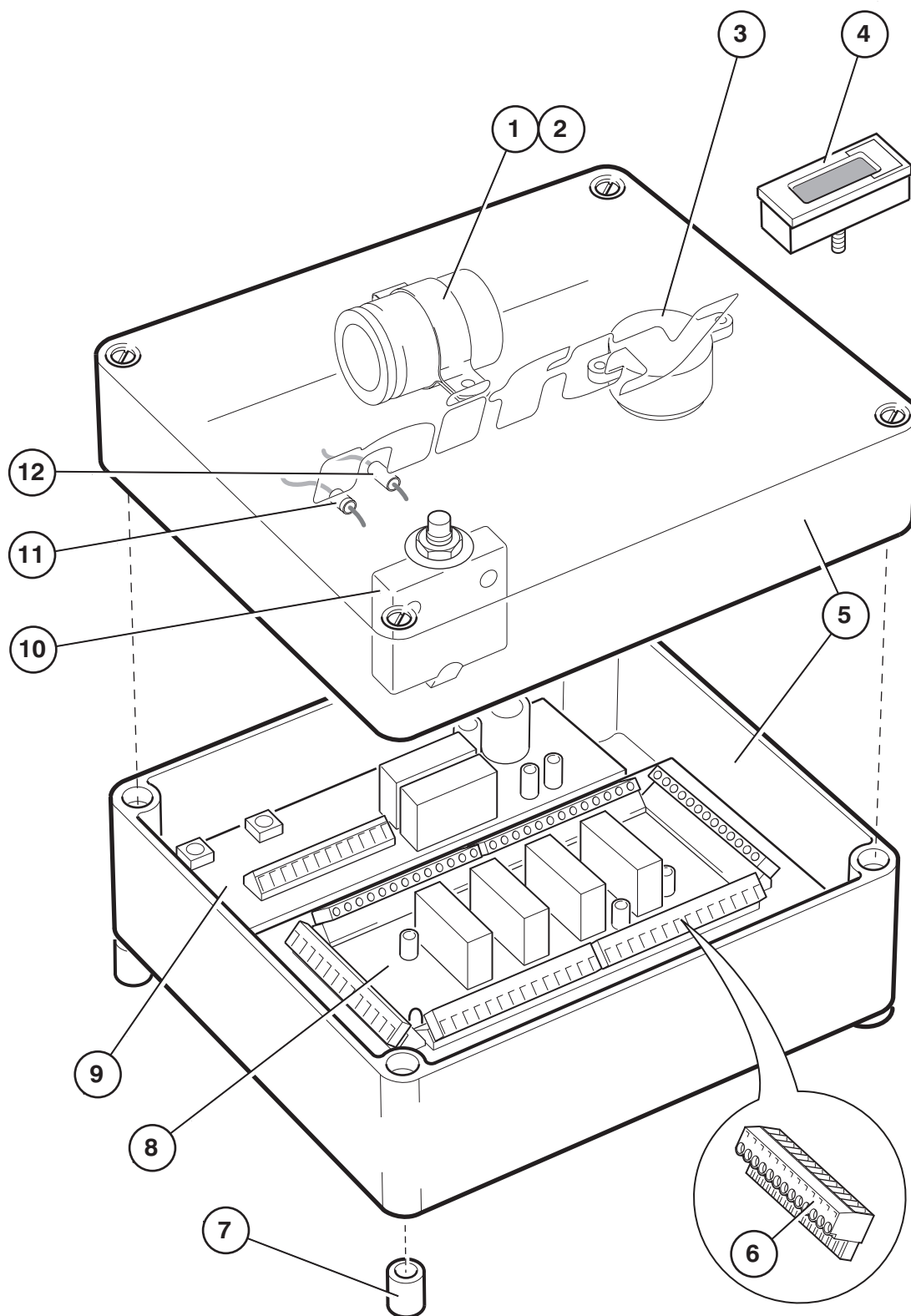
superstructure

2.5 Control box

Item	Description				Part Number
	Complete assembly USA/Australia				P17135 P16440
1	Capacitor				P15528
2	Clip				P15529
3	Sounder				P11112
4	Hour meter (OPTIONAL)				P11410
5	ABS box				P20368
6	Plug - 13-way				P12945
7	Nylon spacer				P11863
8	PCB				P11175
9	PCB (Battery management)				P11174
10	Circuit breaker - 10A				P11719
11	Diode				P11179
12	Resistor				P11178

french
german
spanish

superstructure

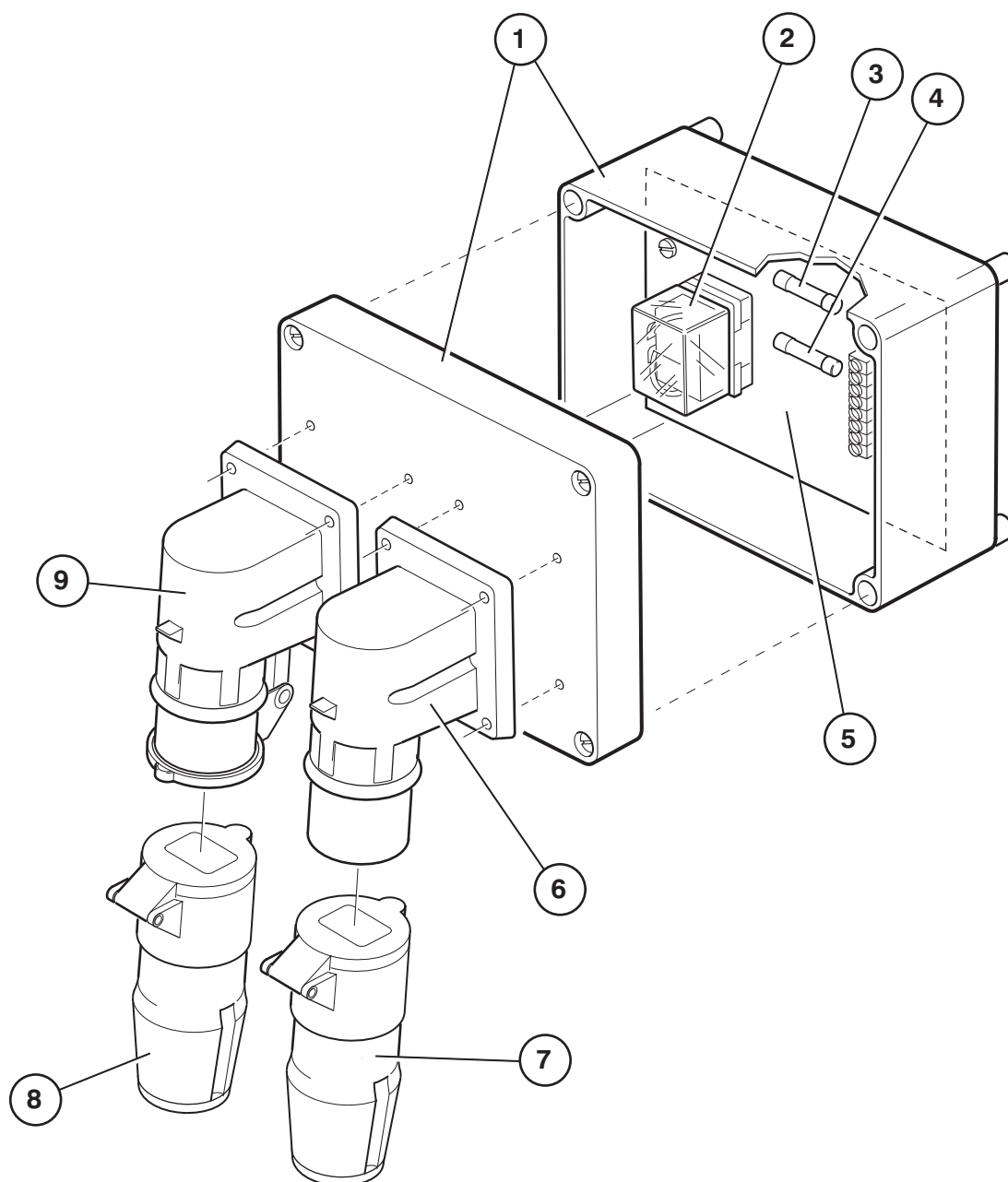


french
german
spanish

superstructure

2.6 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

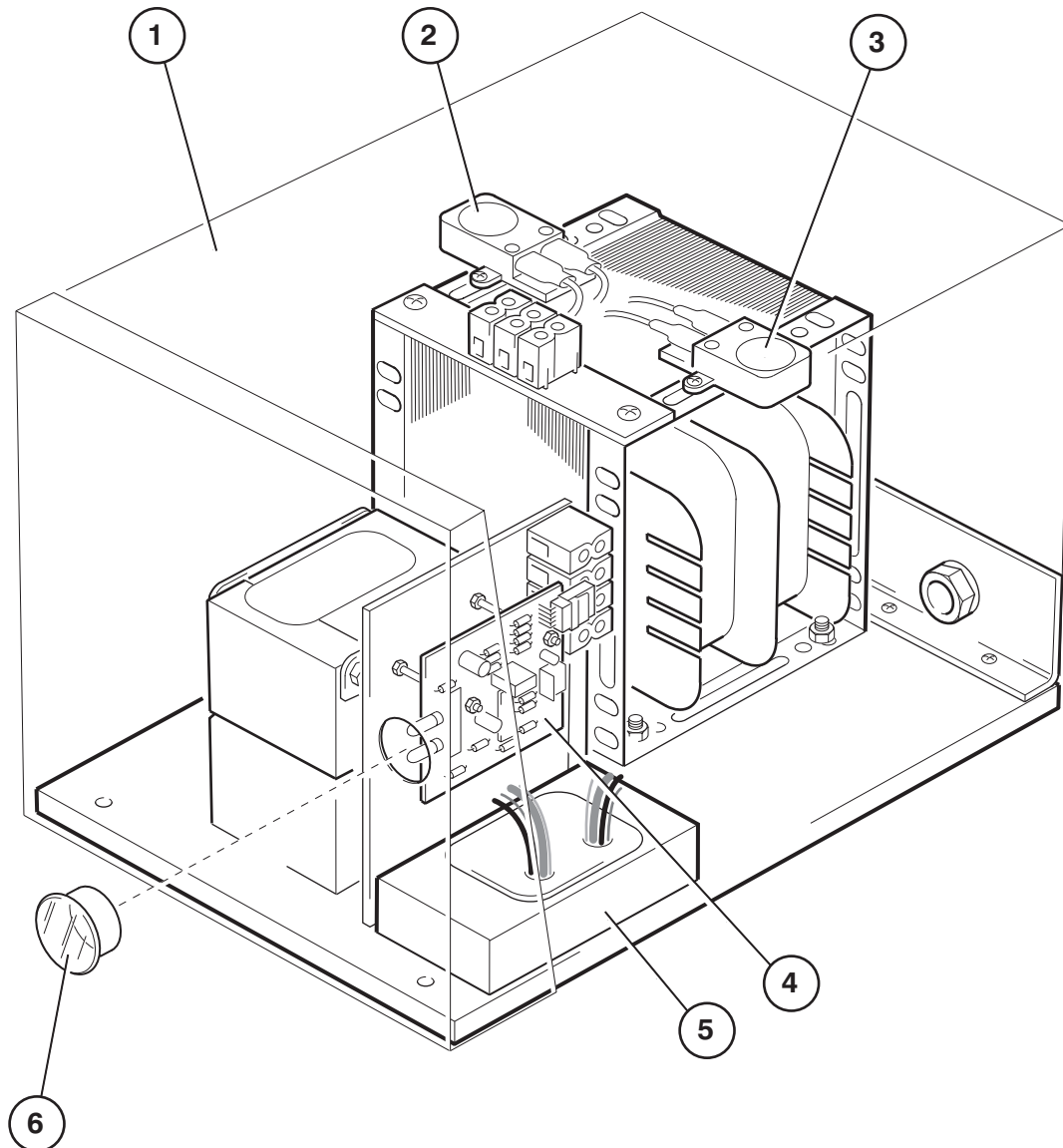
superstructure

2.7 Battery charger

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

french
german
spanish

superstructure



french
german
spanish

superstructure



nifty



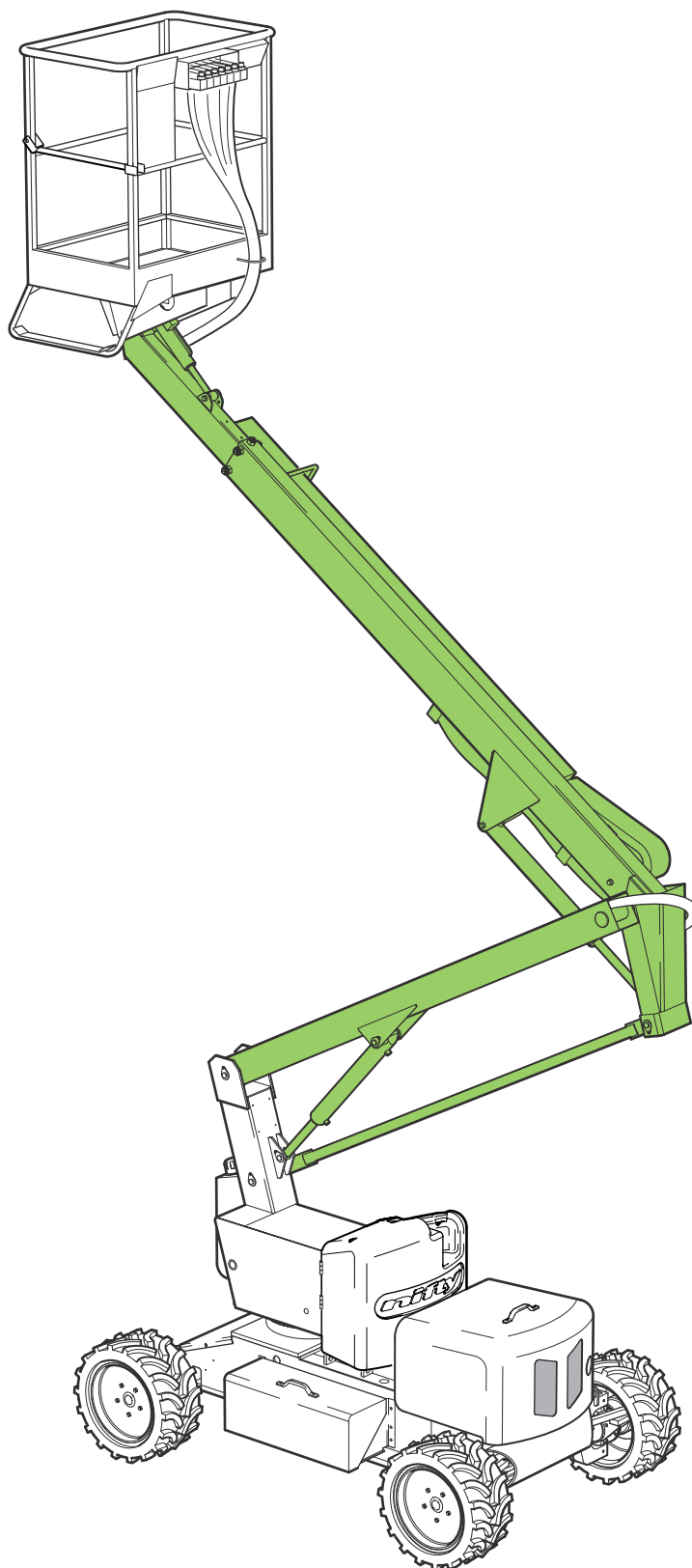
HR12 (SP34) 4x4

illustrated parts manual

Manuel illustré de pièces détachées

Illustrierte Stückliste

Manual de piezas ilustrado



3

boom assemblies

french
german
spanish

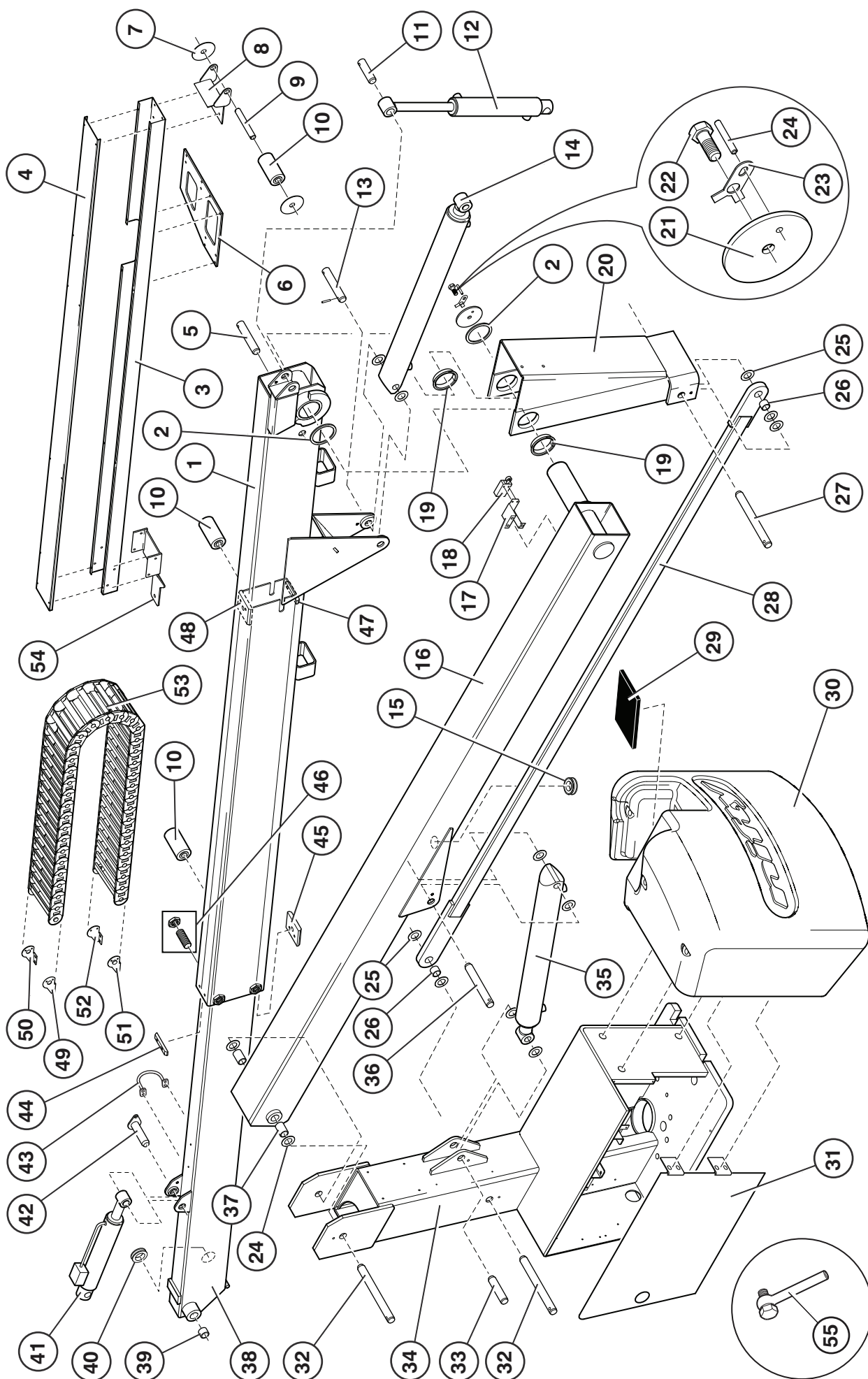
3.1 Booms assembly

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

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 3-8.	P11764
13	Pivot pin - 146mm Roll Pin	P12955 P17485
14	Lift cylinder See "Lift cylinder" on page 3-6.	P11256
15	Grommet	P11283
16	Boom 2	P20033
17	Bracket	P20563
18	Micro switch	P24994
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

french
german
spanish

boom assemblies



french
german
spanish

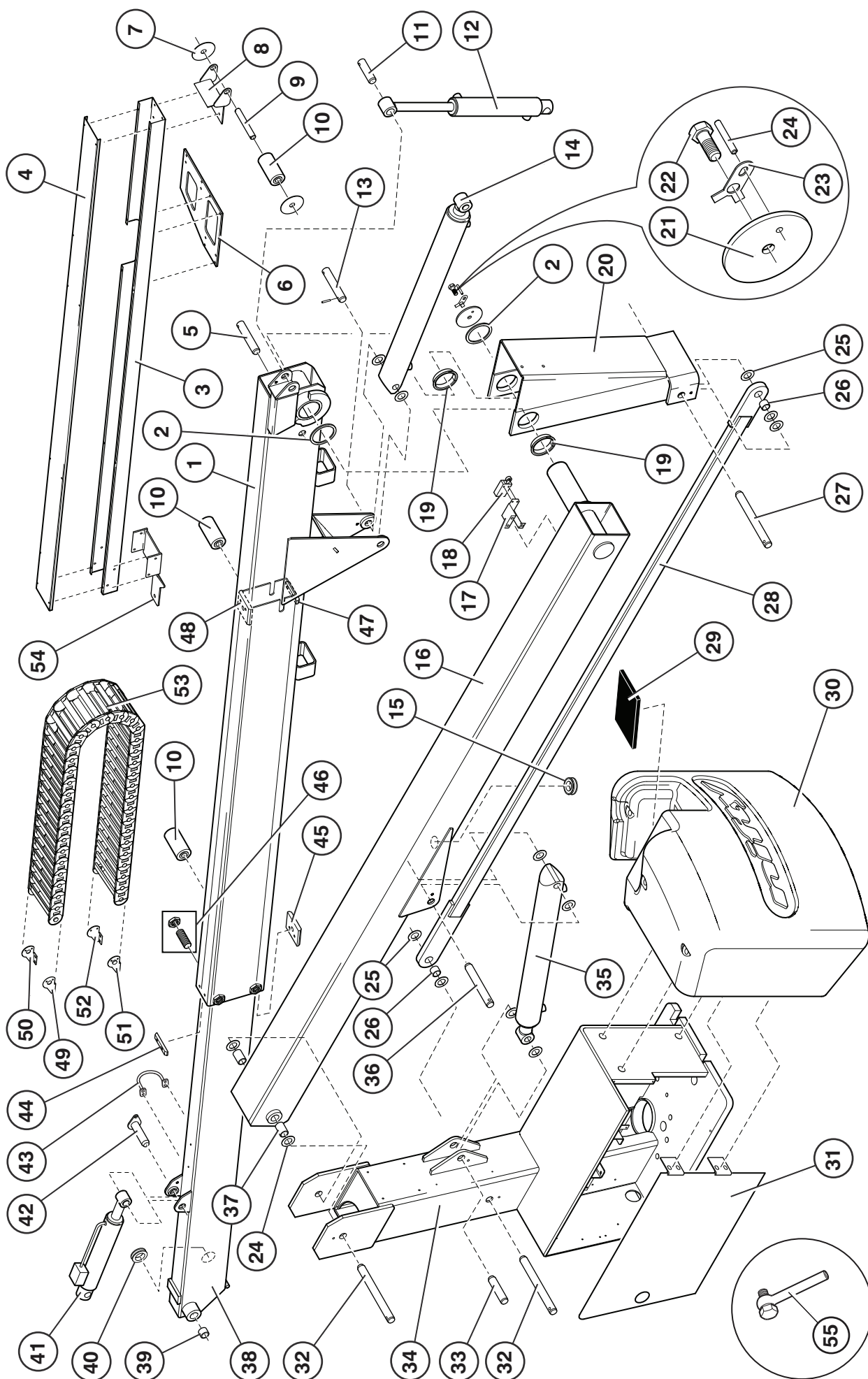
boom assemblies

3.2 continued

Item	Description	Part Number
29	Boom rest - rubber	P11857
30	Counterweight	P20043
31	Door	P20108
32	Pivot pin - 240mm	P19546
33	Pivot pin - 94mm	P12953
34	Boom 1	P20028
35	Lift cylinder See "Lift cylinder" on page 3-6.	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 3-8.	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 3-12.	P19226
54	Bracket (Trunking to Boom 4)	P19915
55	Swing bolt	P15966

french
german
spanish

boom assemblies



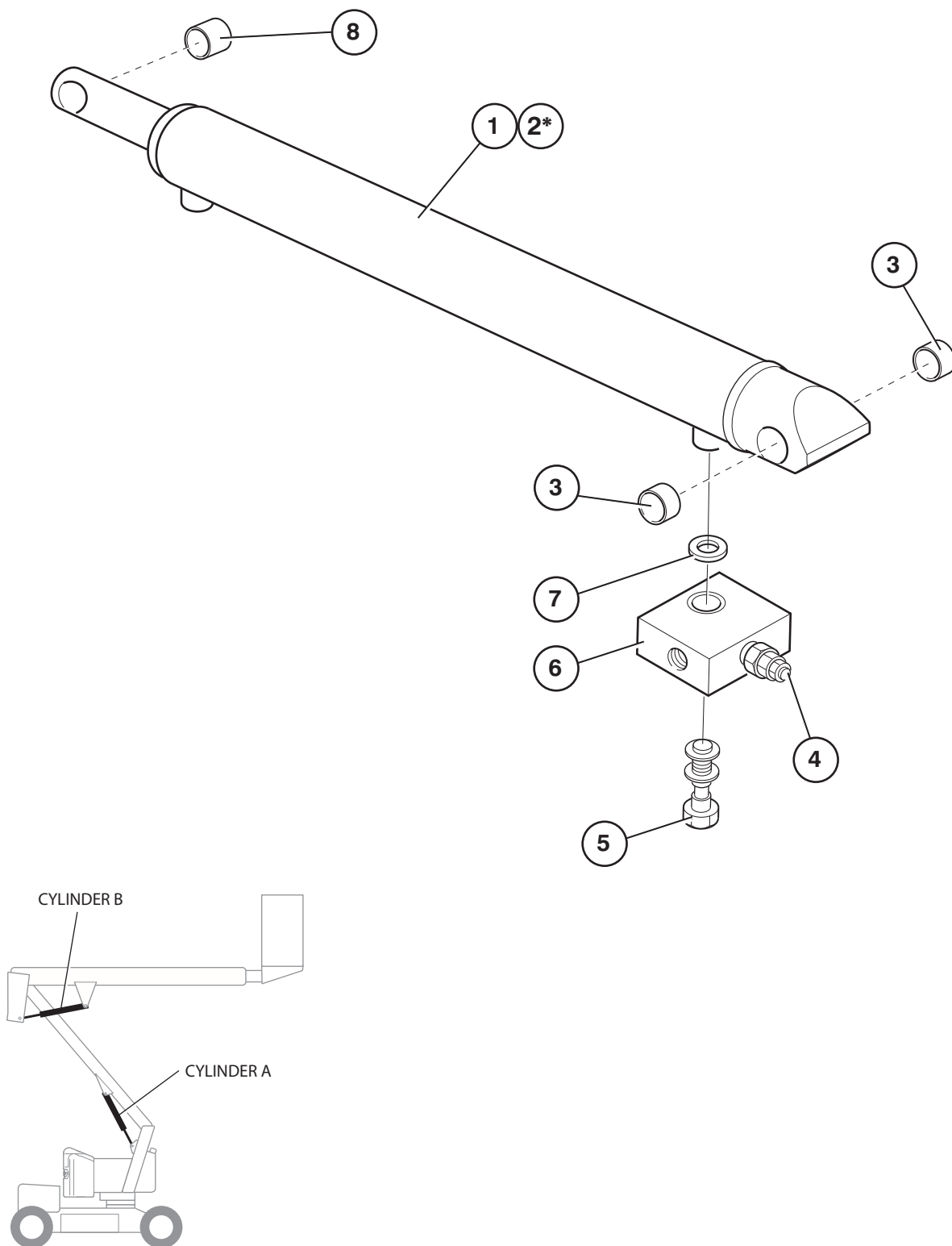
french
german
spanish

boom assemblies

3.2 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
8	Bush DU2530				P24269

* Not illustrated



french
german
spanish

boom assemblies

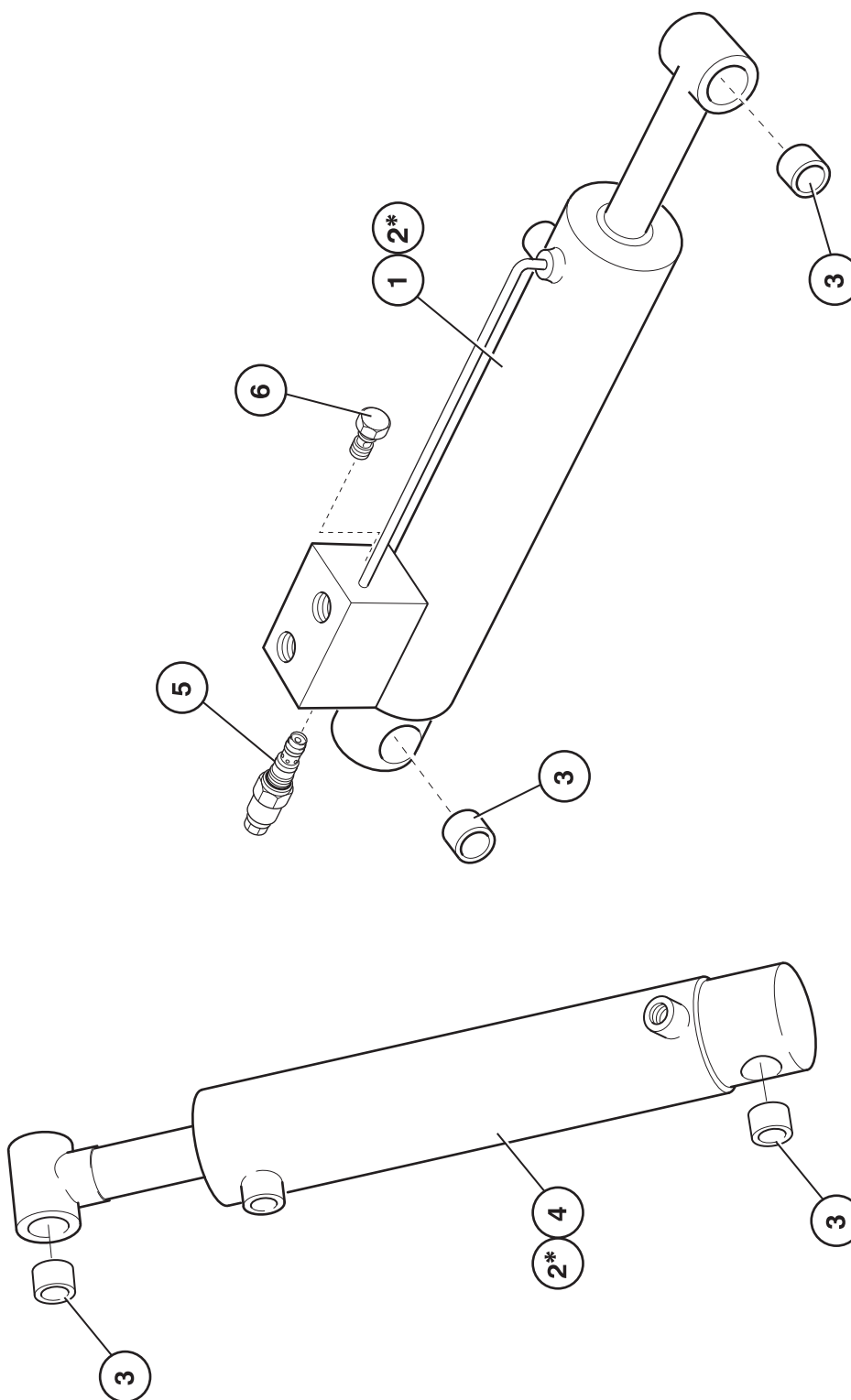
3-7

Figure 3.2 Lift cylinder

3.3 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
german
spanish

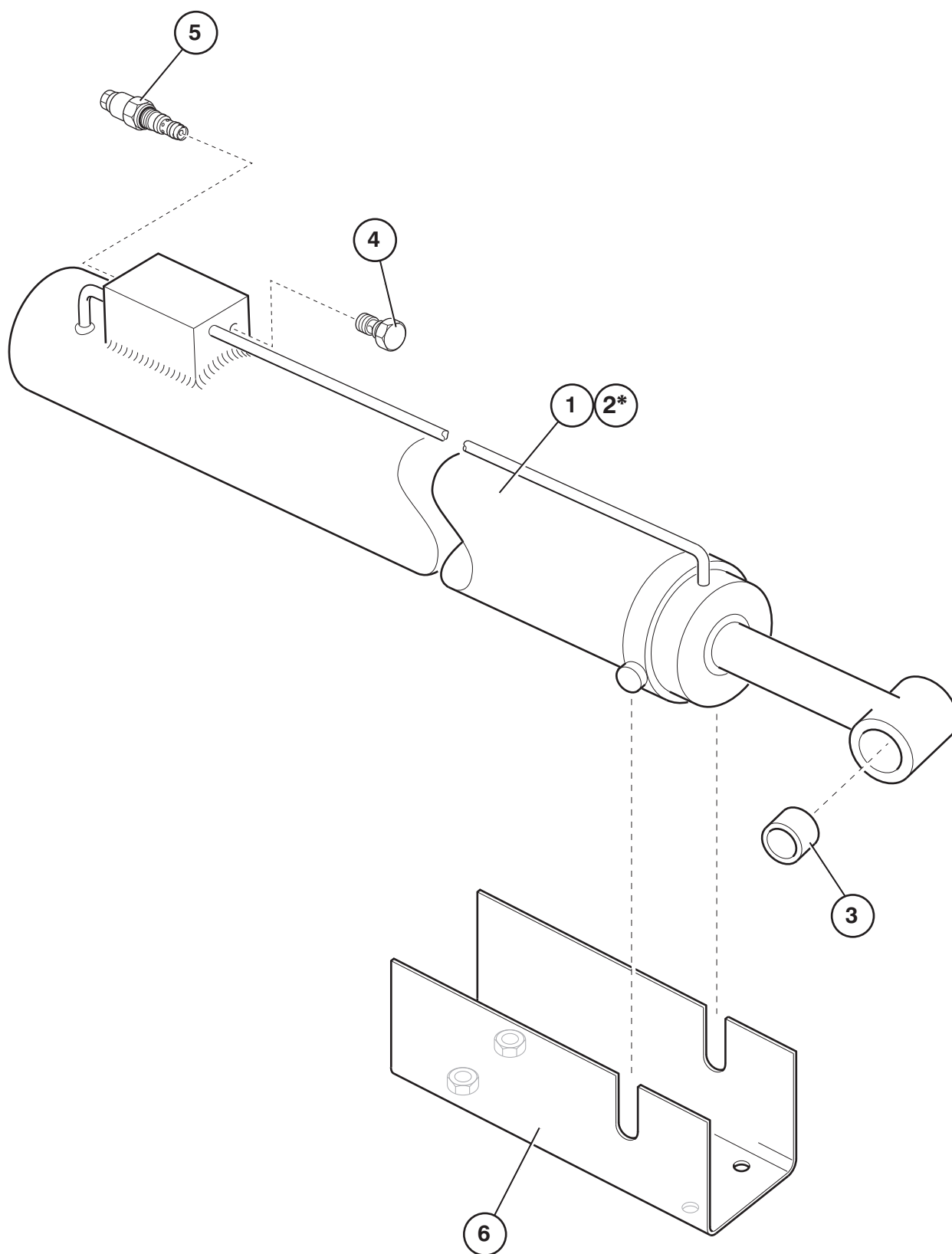
boom assemblies

Figure 3.3 Levelling cylinder

3.4 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				P11956
6	Bracket				P10512

* Not illustrated



french
german
spanish

boom assemblies

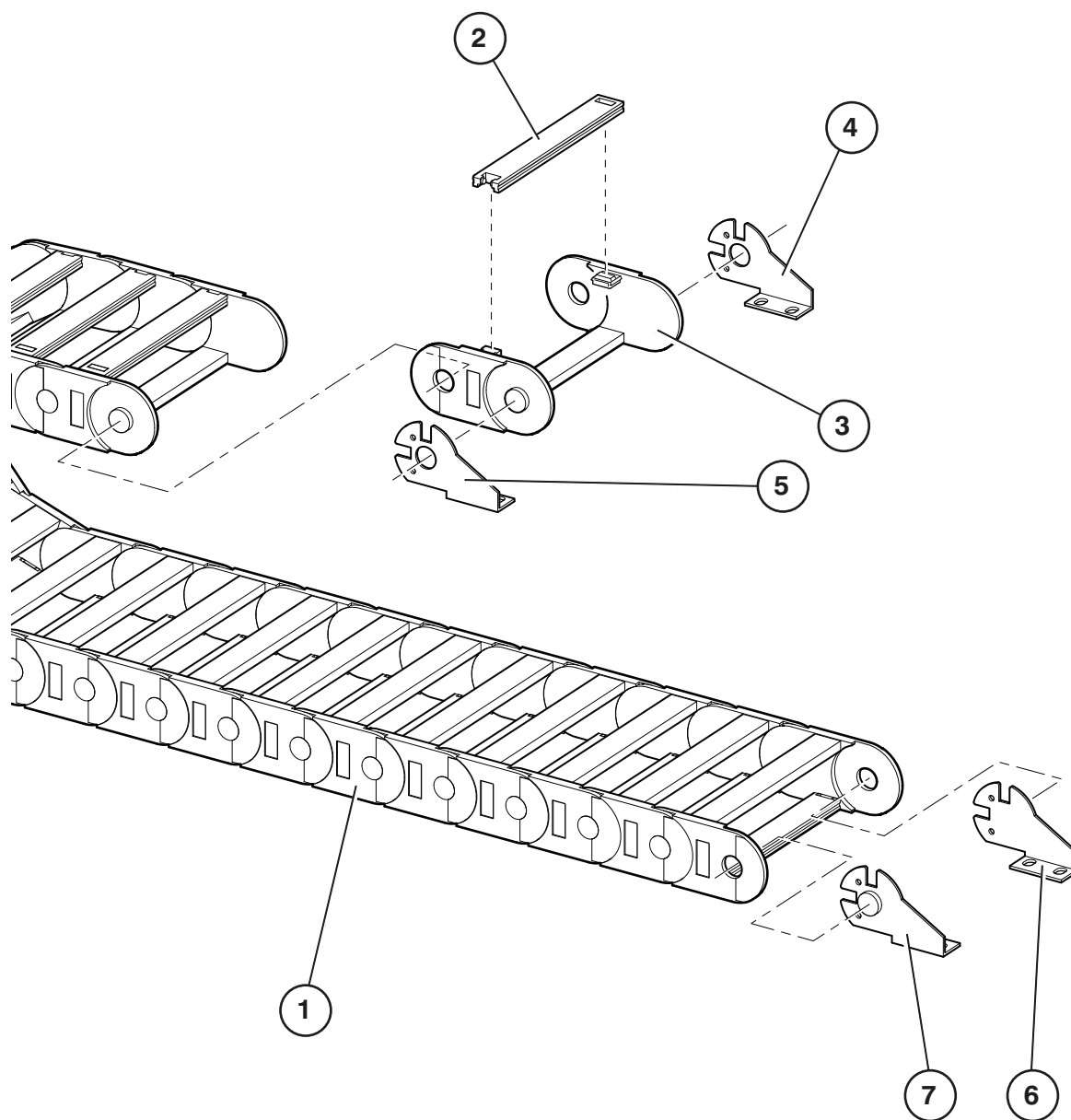
3-11

3.5 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

french
german
spanish

boom assemblies



french
german
spanish

boom assemblies

3-13



nifty



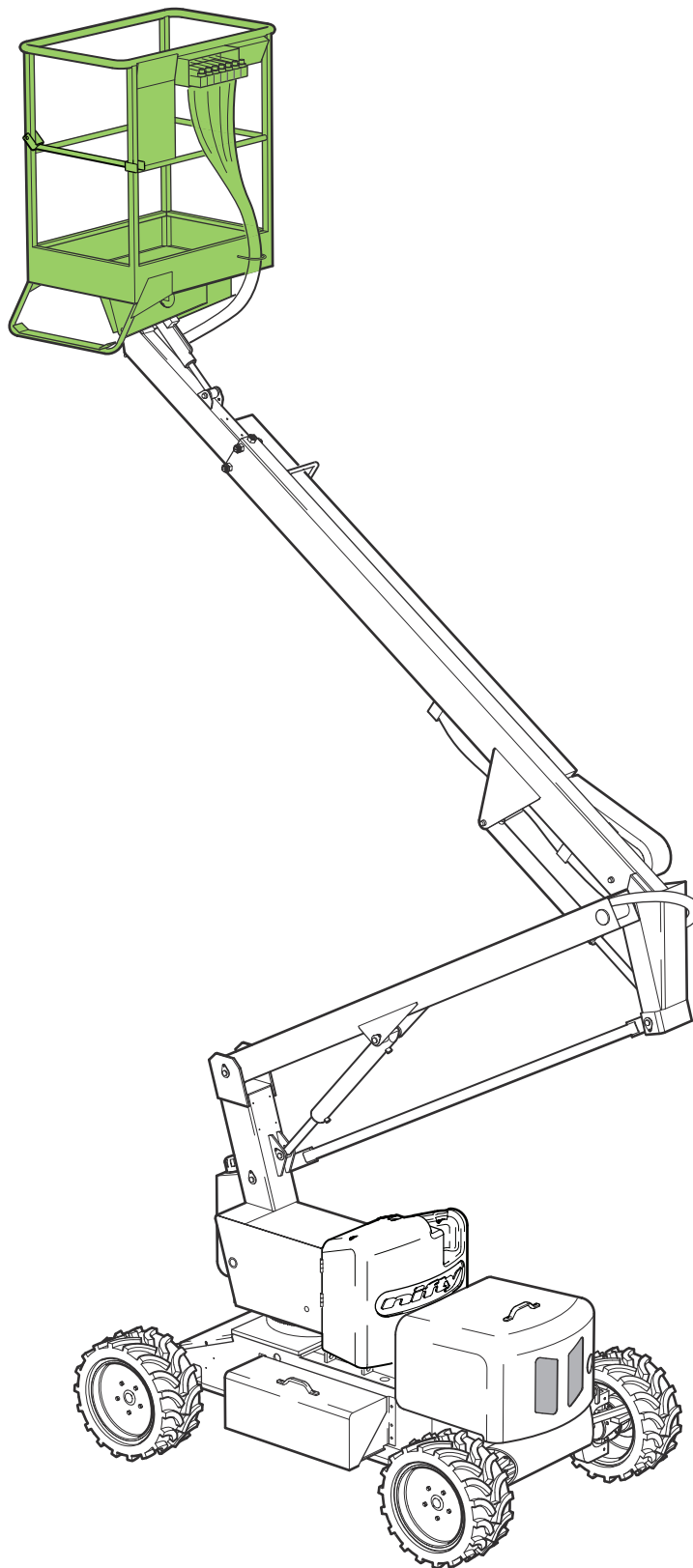
HR12 (SP34) 4x4

illustrated parts manual

Manuel illustré de pièces détachées

Illustrierte Stückliste

Manual de piezas ilustrado



4



cage assembly

french
german
spanish

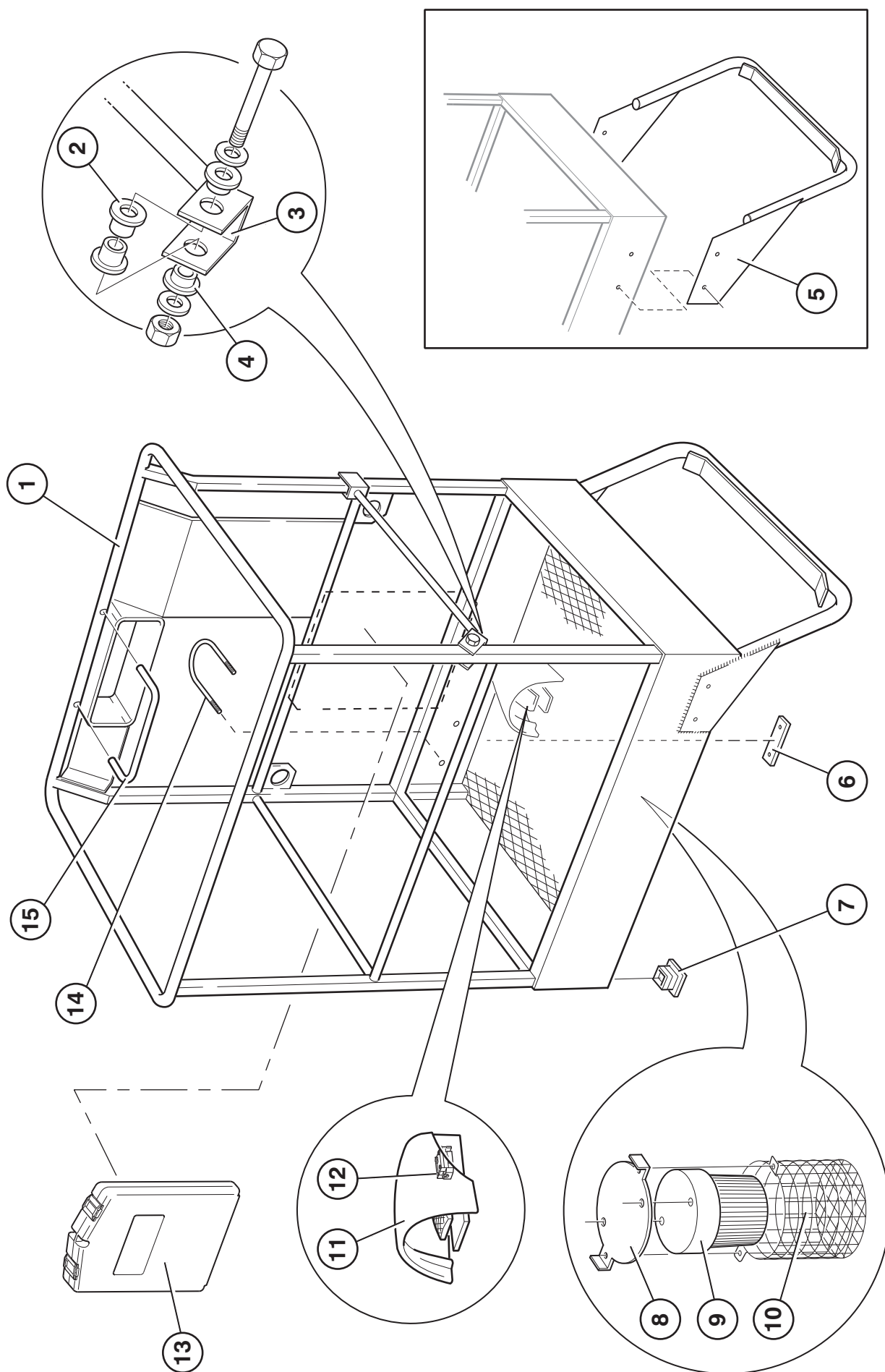
4.1 Cage assembly

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

1	Cage HR12 With cage weigh <i>Mechanical</i> Non cage weigh				P20726 P10843
2	Bush				P10840
3	Cage gate				P11610
4	Bush				P18647
5	Step				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				P11618
14	Hoop (U Bolt)				P10566
15	Guard bar				P20947

french
german
spanish

cage assembly



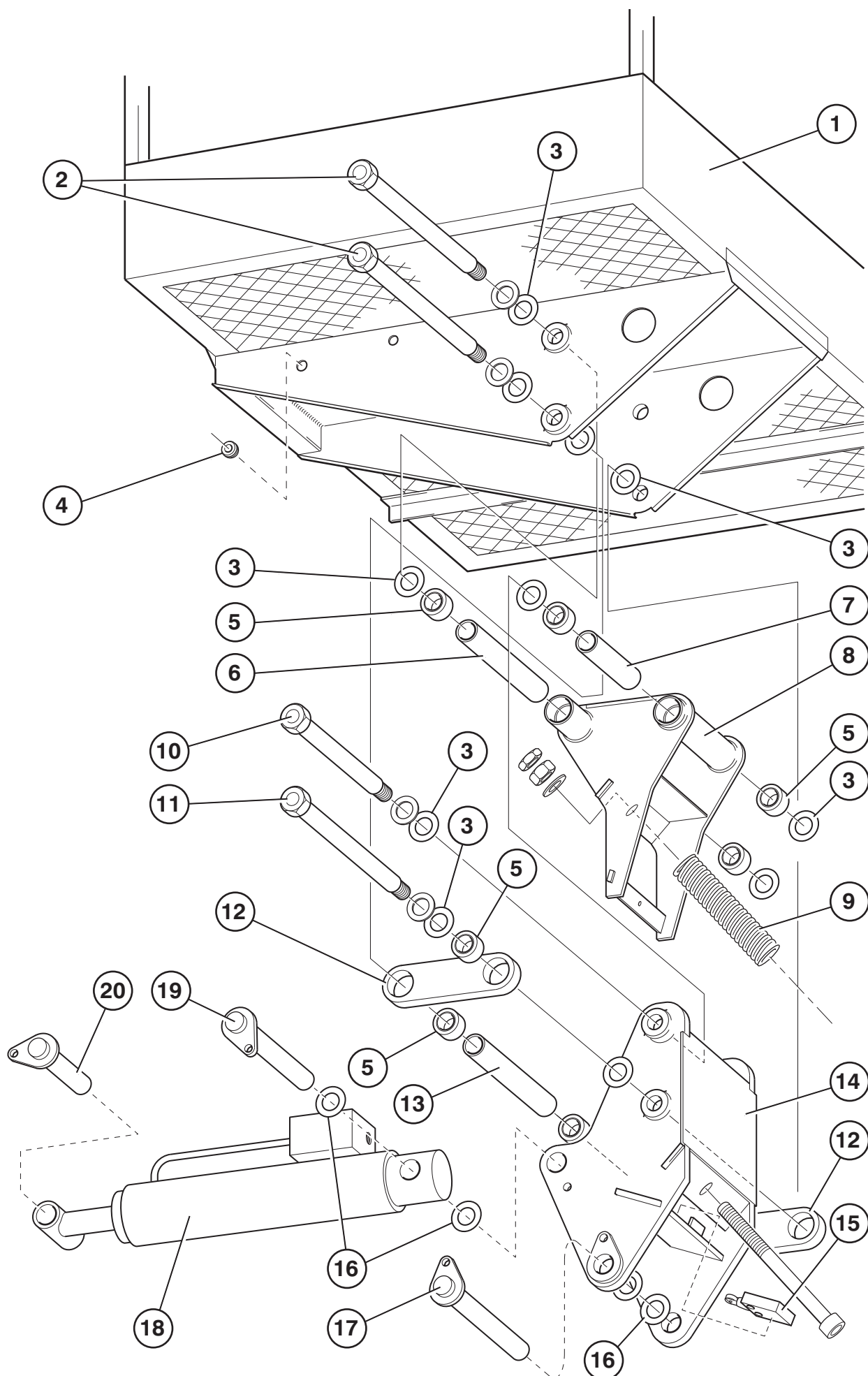
french
german
spanish

cage assembly

4-3

4.2 Cage weigh assembly - Mechanical

Item	Description				Part Number
1	Cage				P20726
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 3-8.				P22974
19	Pivot pin - 182mm				P10029
20	Pivot pin - 95mm				P12899



french
german
spanish

cage assembly

Figure 4.2 Cage weigh assembly - Spring

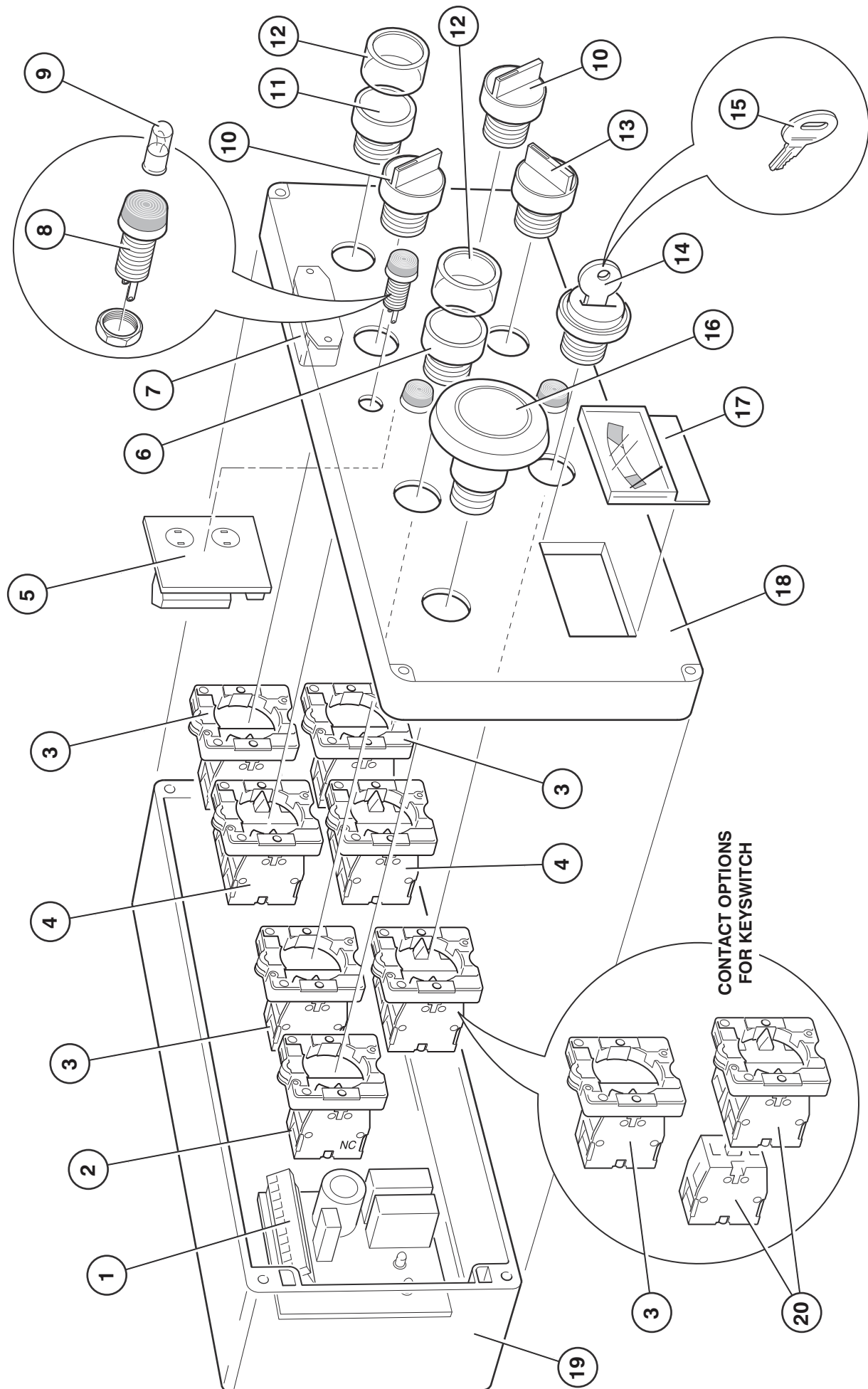
4.3 Control box - Cage

Item Description Part Number

	Complete assembly <i>Cage Weigh</i> <i>Non Cage Weigh</i>				P18434 P18435
1	PCB - Cage weigh				P16164
2	Contact - NC				P11839
3	Contact - NO				P11838
4	Contact - Double NO (Bi-energy)				P11840
5	PCB				P18276
6	Blue button				P11117
7	Buzzer				P10341
8	Lamp assy. - Red				P11408
9	Bulb				P11409
10	Selector switch				P10777
11	Green button				P10075
12	Rubber cover				P22414
13	Selector switch				P12692
14	Key switch - 455 key (3 position)				P10081
15	Spare key				P70187
16	E-Stop button USA Only				P10342 P21541
17	Battery meter				P11494
18	Decal ONLY				P18961
19	Box (Includes item 18)				P18345
20	Contact - Single NO Double NO (Bi-energy with Cage Weigh ONLY)				P11838 P11840

french
german
spanish

cage assembly



french
german
spanish

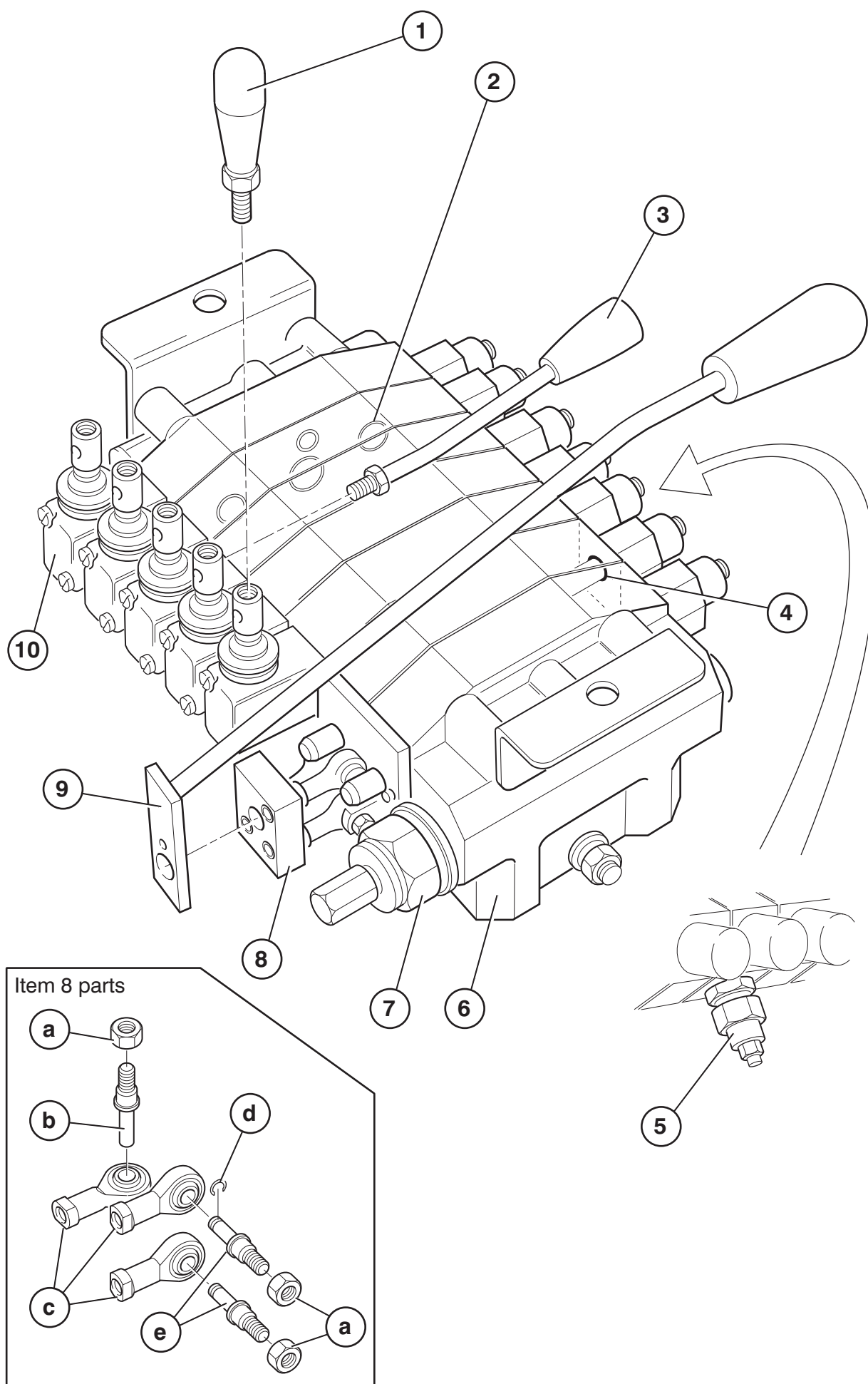
cage assembly

4.4 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 - (7 spool)				P24750
7	Pressure relief valve				P70335
8	Manipulator assy. (complete) a) Nut b) Vertical pin c) Universal joint d) Circlip e) Horizontal pin				P10708 P12748 P12749 P12750 P12751 P12747
9	Joystick				P10310
10	Lever cap				P70338

french
german
spanish

cage assembly



french
german
spanish

cage assembly



nifty



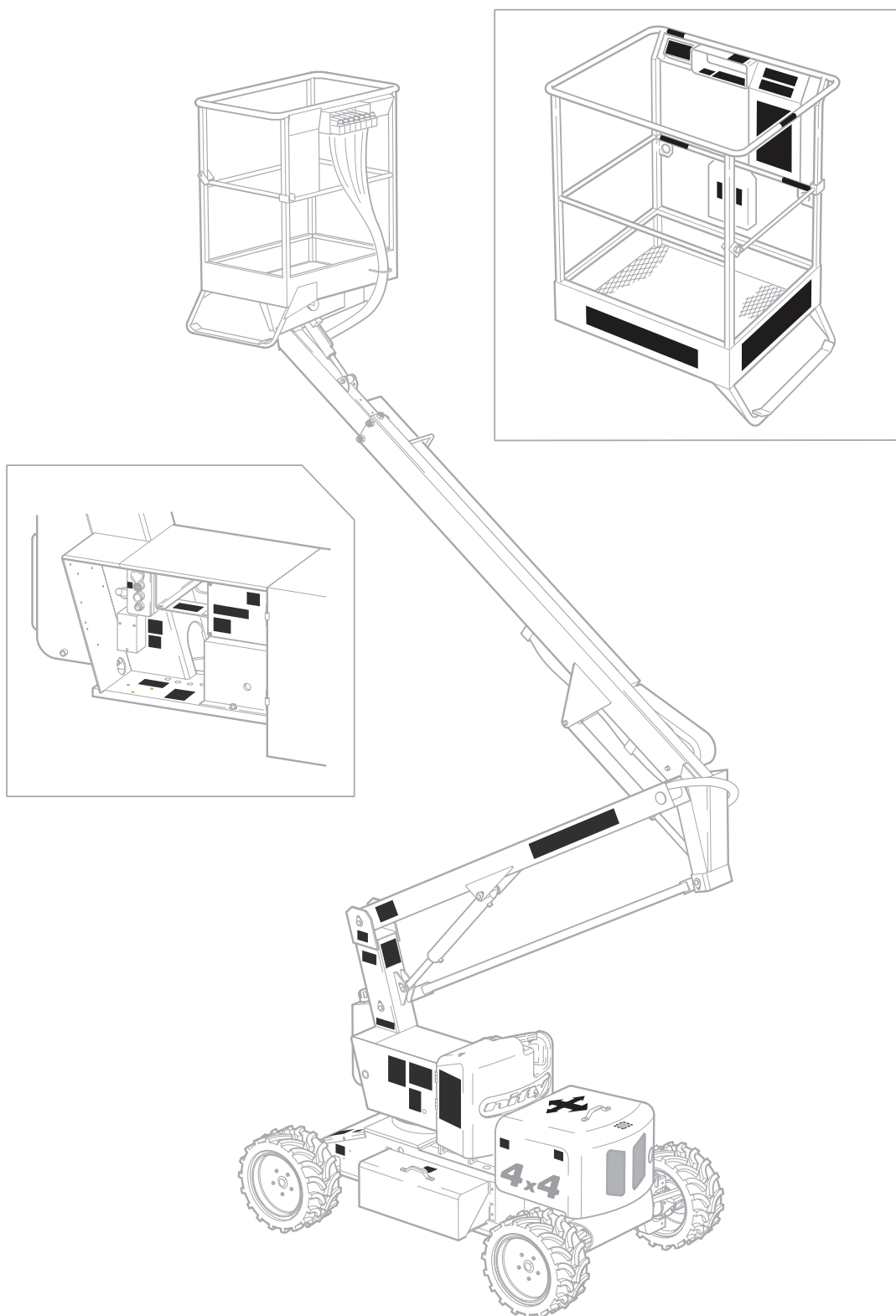
HR12 (SP34) 4x4

illustrated parts manual

Manuel illustré de pièces détachées

Illustrierte Stückliste

Manual de piezas ilustrado



5



labelling
french
german
spanish

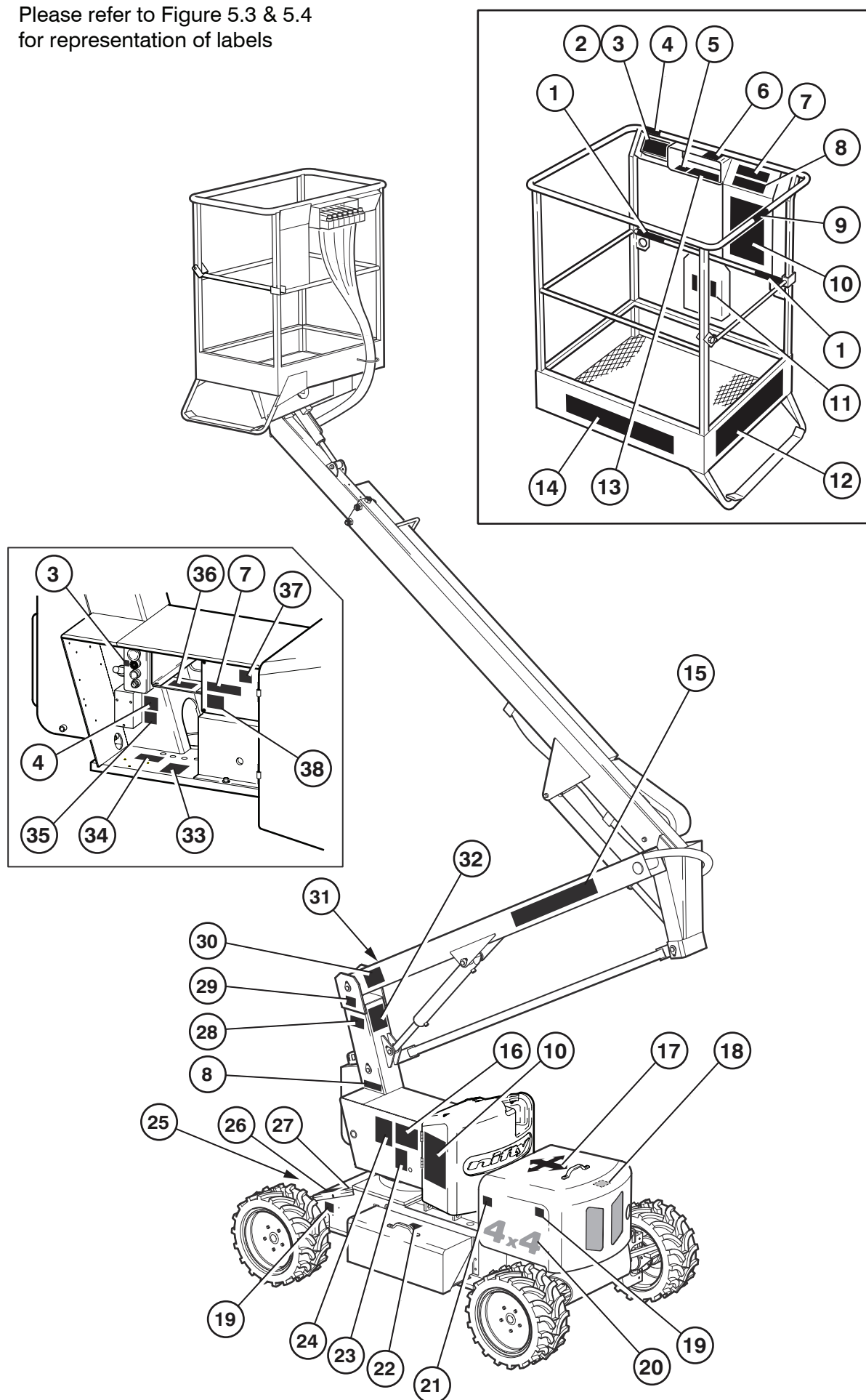
5.1 Label locations

Item	Description	Part Number
1	Harness point	P14883
	french	P14883
	german	P14883
	spanish	P14883
	dutch	P14883
	italian	P14883
2	Cage controls	P18961
	french	P18961
	german	P18961
	spanish	P18961
	dutch	P18961
	italian	P18961
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
6	Battery management	P11777
	french	P11811
	german	P11809
	spanish	P13432
	dutch	P16483
	italian	P16793

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
7	Tilt alarm	P14868
	french	P14869
	german	P14870
	spanish	P14871
	dutch	P16398
	italian	P16650

8	Overload warning	P18848
	french	P18848
	german	P18848
	spanish	P18848
	dutch	P18848
	italian	P18848

9	Cage gate warning	P18432
	french	P18432
	german	P18432
	spanish	P18432
	dutch	P18432
	italian	P18432

10	General warning	P18672
	french	P14422
	german	P14423
	spanish	P14424
	dutch	P16266
	italian	P16648

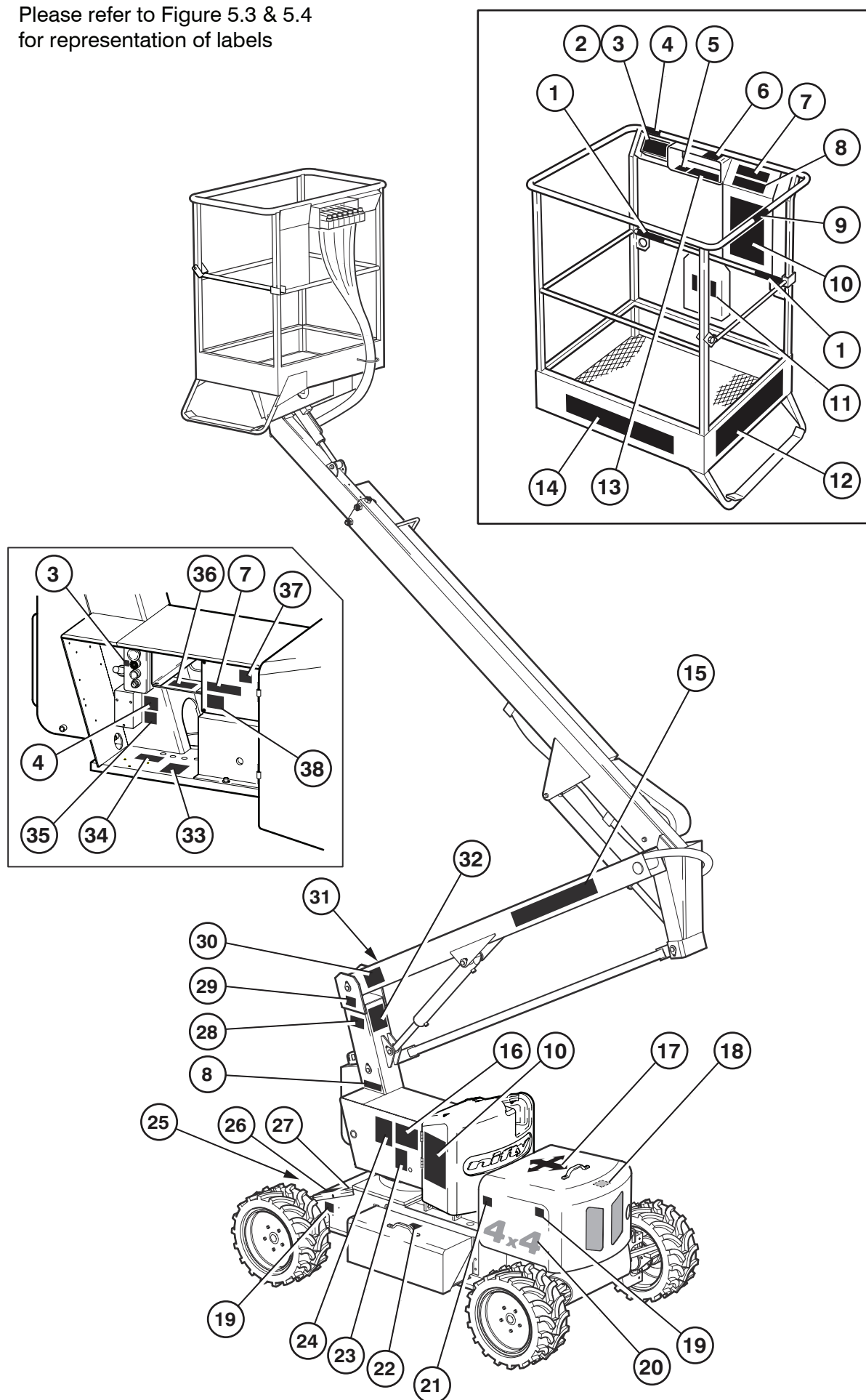
11	Operating instructions	P14892
	french	P14893
	german	P14894
	spanish	P14895
	dutch	P17255
	italian	P16639

12	SWL 200kg	P14801
	french	P14801
	german	P14801
	spanish	P14801
	dutch	P16268
	italian	P16660

french
german
spanish

labelling

Please refer to Figure 5.3 & 5.4
for representation of labels



french
german
spanish

labelling

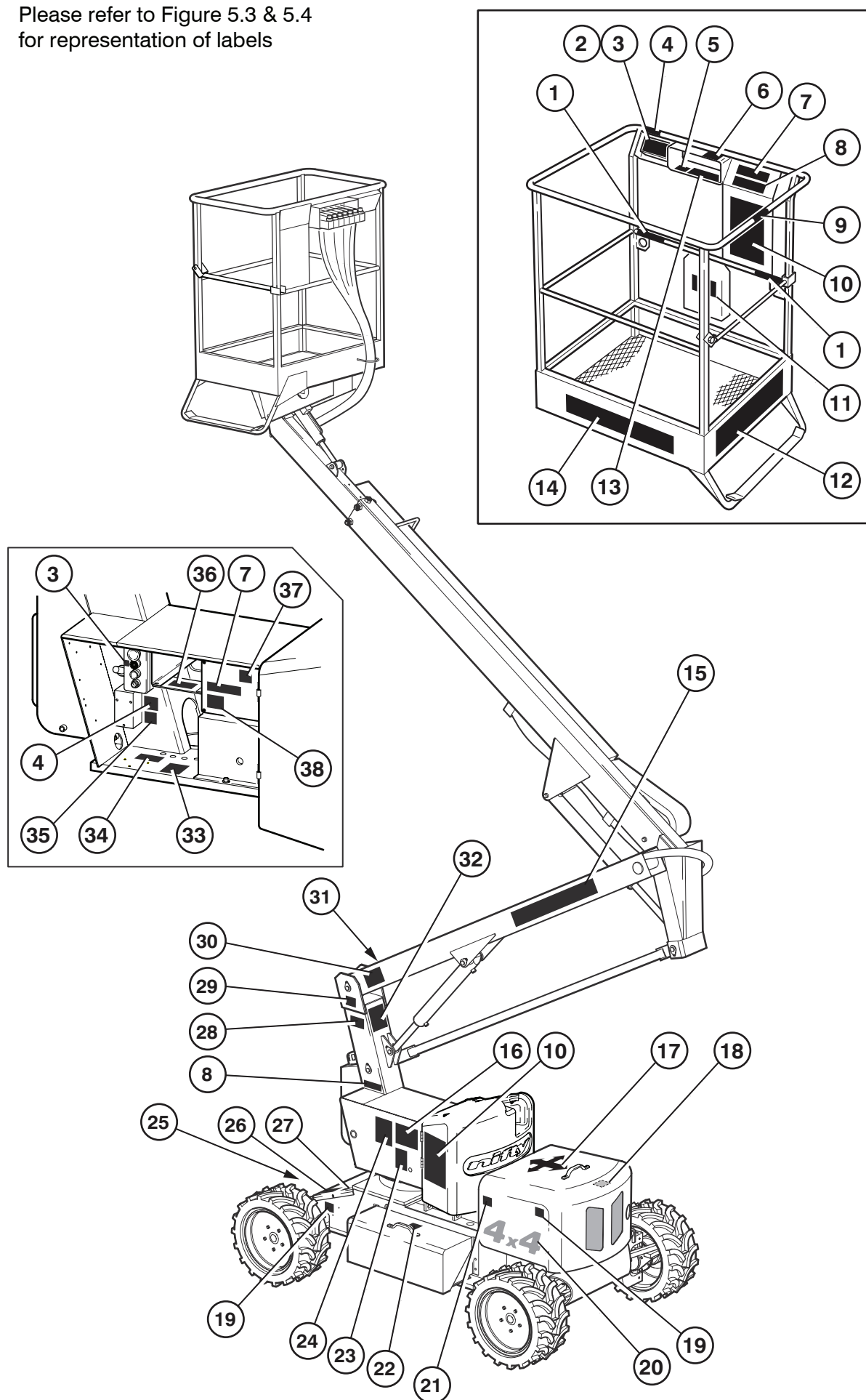
5.1 continued

Item	Description	Part Number
13	Cage - Hydraulic control levers	P14939
	french	P14939
	german	P14939
	spanish	P14939
	dutch	P14939
	italian	P14939
14	niftylift.com	P14597
	french	P14597
	german	P14597
	spanish	P14597
	dutch	P14597
	italian	P14597
15	Nifty logo - HR12 Grey	P14604
	french	P14604
	german	P14604
	spanish	P14604
	dutch	P14604
	italian	P14604
16	General notice	P18870
	french	P18871
	german	P18872
	spanish	P18873
	dutch	P18874
	italian	P18875
17	Travel direction	P14784
	french	P14784
	german	P14784
	spanish	P14784
	dutch	P14784
	italian	P14784
18	Diesel fuel	P14414
	french	P14414
	german	P14414
	spanish	P14414
	dutch	P14414
	italian	P14414

french
german
spanish

labelling

Please refer to Figure 5.3 & 5.4
for representation of labels



french
german
spanish

labelling

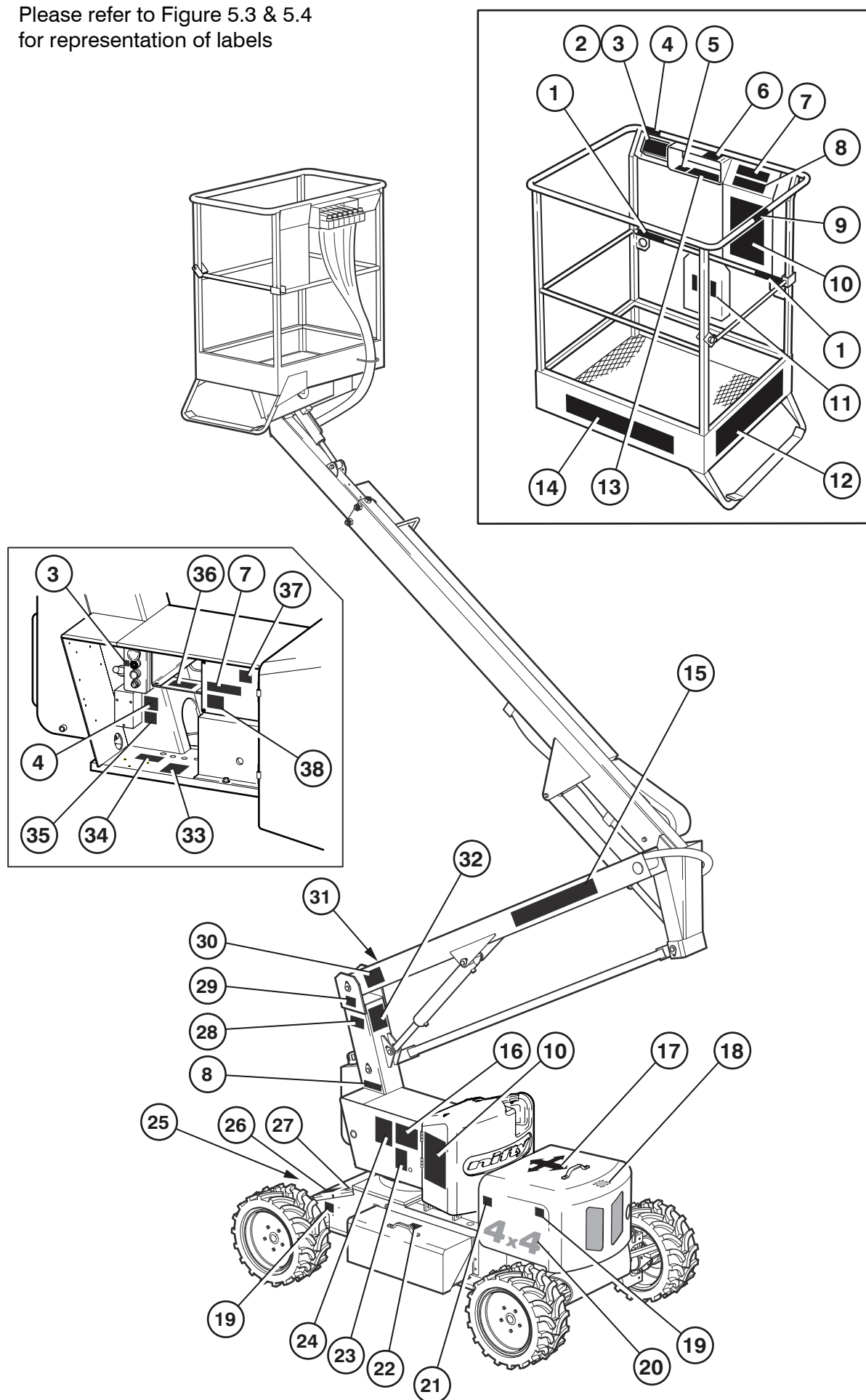
5.1 continued

Item	Description	Part Number
19	Point load -20.8 kN	P20634
	french	P20634
	german	P20634
	spanish	P20634
	dutch	P20634
	italian	P20634
20	Logo - 4x4	P14697
	french	P14697
	german	P14697
	spanish	P14697
	dutch	P14697
	italian	P14697
21	Noise warning	P17124
	french	P17124
	german	P17124
	spanish	P17124
	dutch	P17124
	italian	P17124
22	No step	P14785
	french	P14785
	german	P14785
	spanish	P14785
	dutch	P14785
	italian	P14785
23	Battery charging	P14904
	french	P14905
	german	P14906
	spanish	P14907
	dutch	P16746
	italian	P16662
24	Daily Safety Check List	P14908
	french	P14909
	german	P14910
	spanish	P14911
	dutch	P16630
	italian	P16654

french
german
spanish

labelling

Please refer to Figure 5.3 & 5.4
for representation of labels



french
german
spanish

labelling

5-9

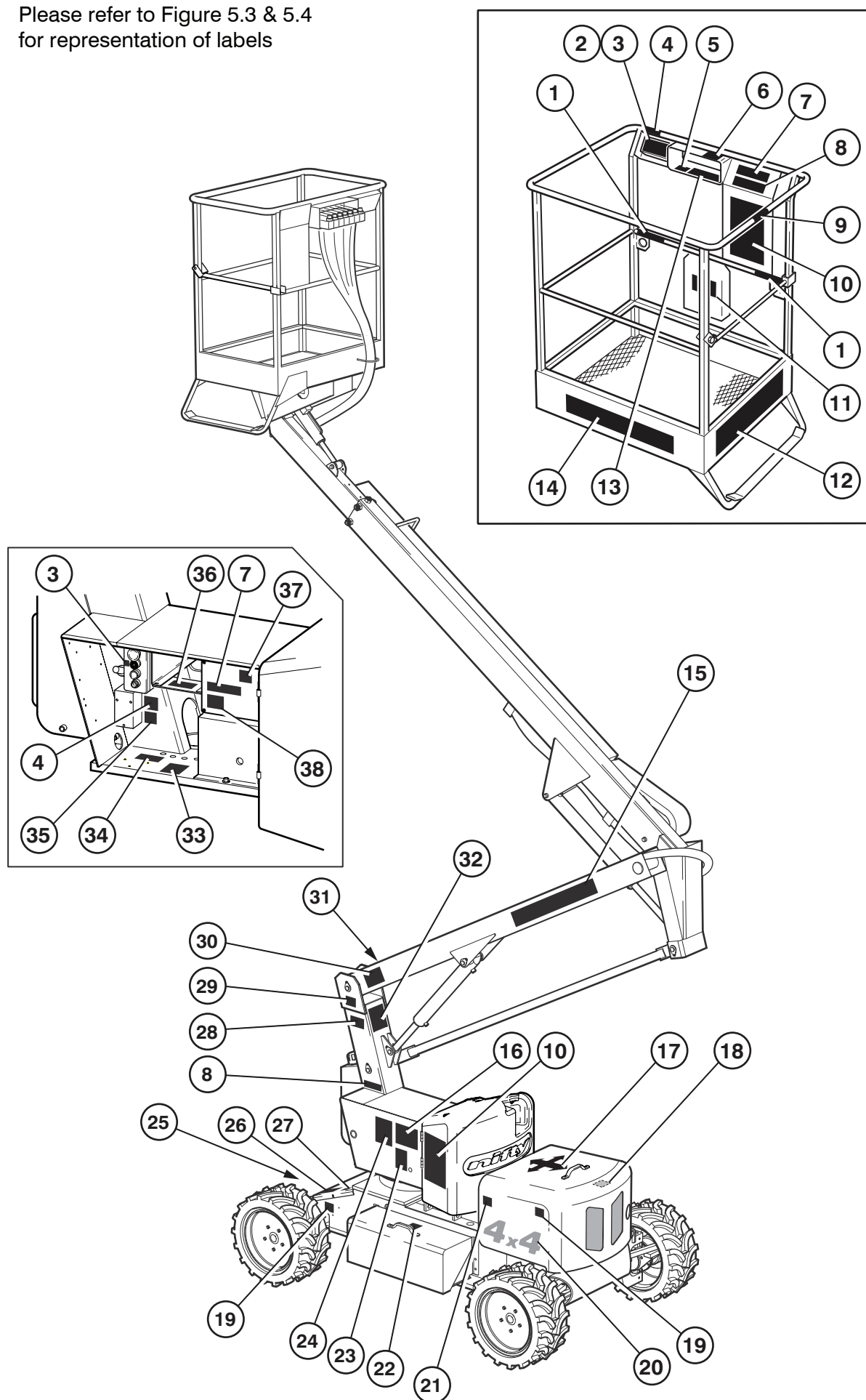
5.1 continued

Item	Description	Part Number
25	Drive wheel lock	P19444
	french	P19444
	german	P19444
	spanish	P19444
	dutch	P19444
	italian	P19444
26	Brake release	P18788
	french	P18788
	german	P18788
	spanish	P18788
	dutch	P18788
	italian	P18788
27	Battery isolator	P18600
	french	P18600
	german	P18600
	spanish	P18600
	dutch	P18600
	italian	P18600
28	Foam filled tyres	P14932
	french	P14933
	german	P14934
	spanish	P14935
	dutch	P17314
	italian	P16797
29	General Crush	P14782
	french	P14782
	german	P14782
	spanish	P14782
	dutch	P14782
	italian	P14782
30	Component stability	P19708
	french	P19709
	german	P19710
	spanish	P19711
	dutch	P19712
	italian	P19713

french
german
spanish

labelling

Please refer to Figure 5.3 & 5.4
for representation of labels



french
german
spanish

labelling

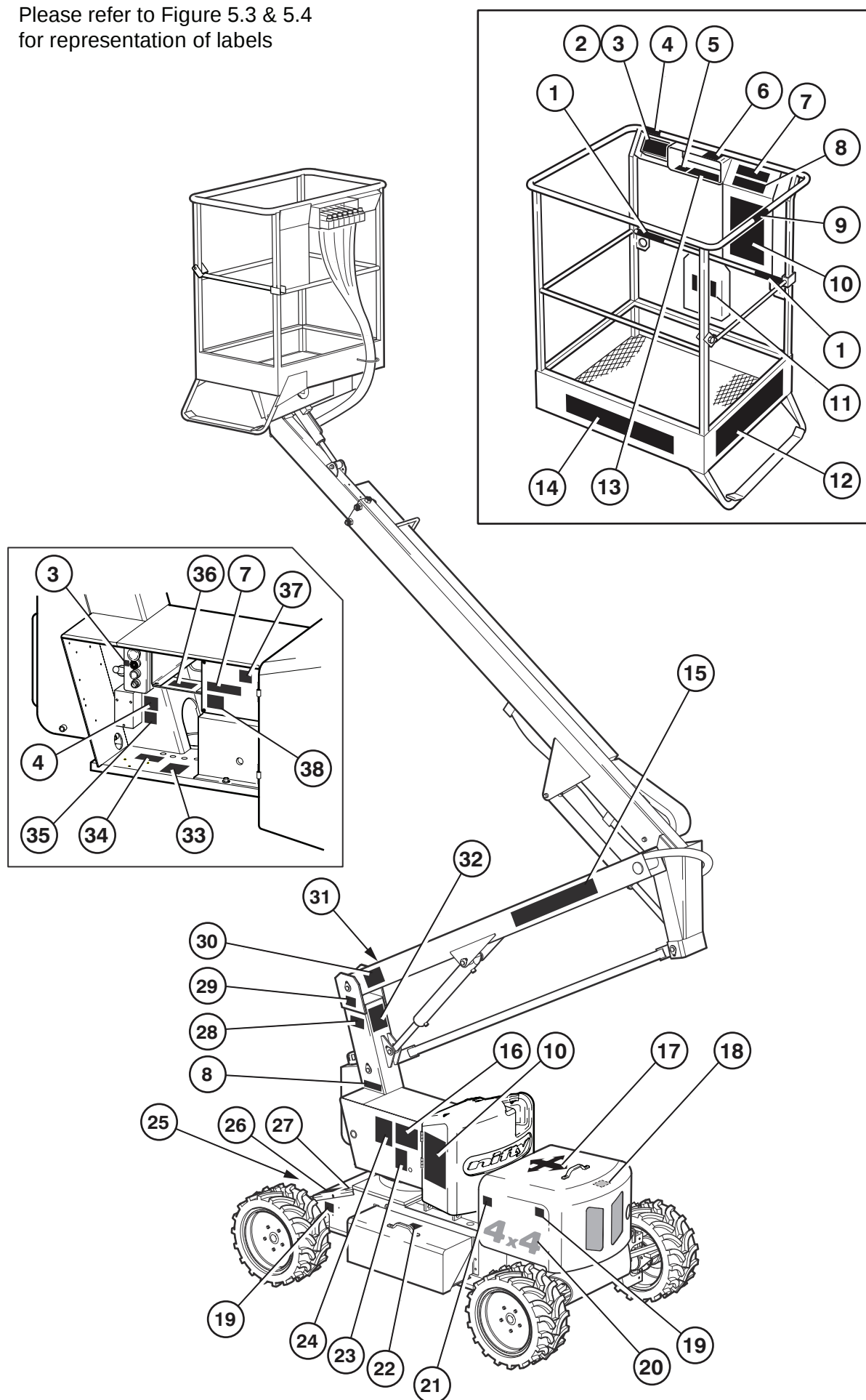
5.1 continued

Item	Description	Part Number
31	Head protection	P14921
	french	P14921
	german	P14921
	spanish	P14921
	dutch	P14921
	italian	P14921
32	Machine plate (Blank)	P15383
	french	P15383
	german	P15383
	spanish	P15383
	dutch	P15383
	italian	P15383
33	Booms/Brakes selector	P19446
	french	P19446
	german	P19446
	spanish	P19446
	dutch	P19446
	italian	P19446
34	Manual descent	P19716
	french	P19716
	german	P19716
	spanish	P19716
	dutch	P19716
	italian	P19716
35	Base key switch control	P15221
	french	P15221
	german	P15221
	spanish	P15221
	dutch	P15221
	italian	P15221
36	Base - Hydraulic control levers	P14936
	french	P14936
	german	P14936
	spanish	P14936
	dutch	P14936
	italian	P14936

french
german
spanish

labelling

Please refer to Figure 5.3 & 5.4
for representation of labels



french
german
spanish

labelling

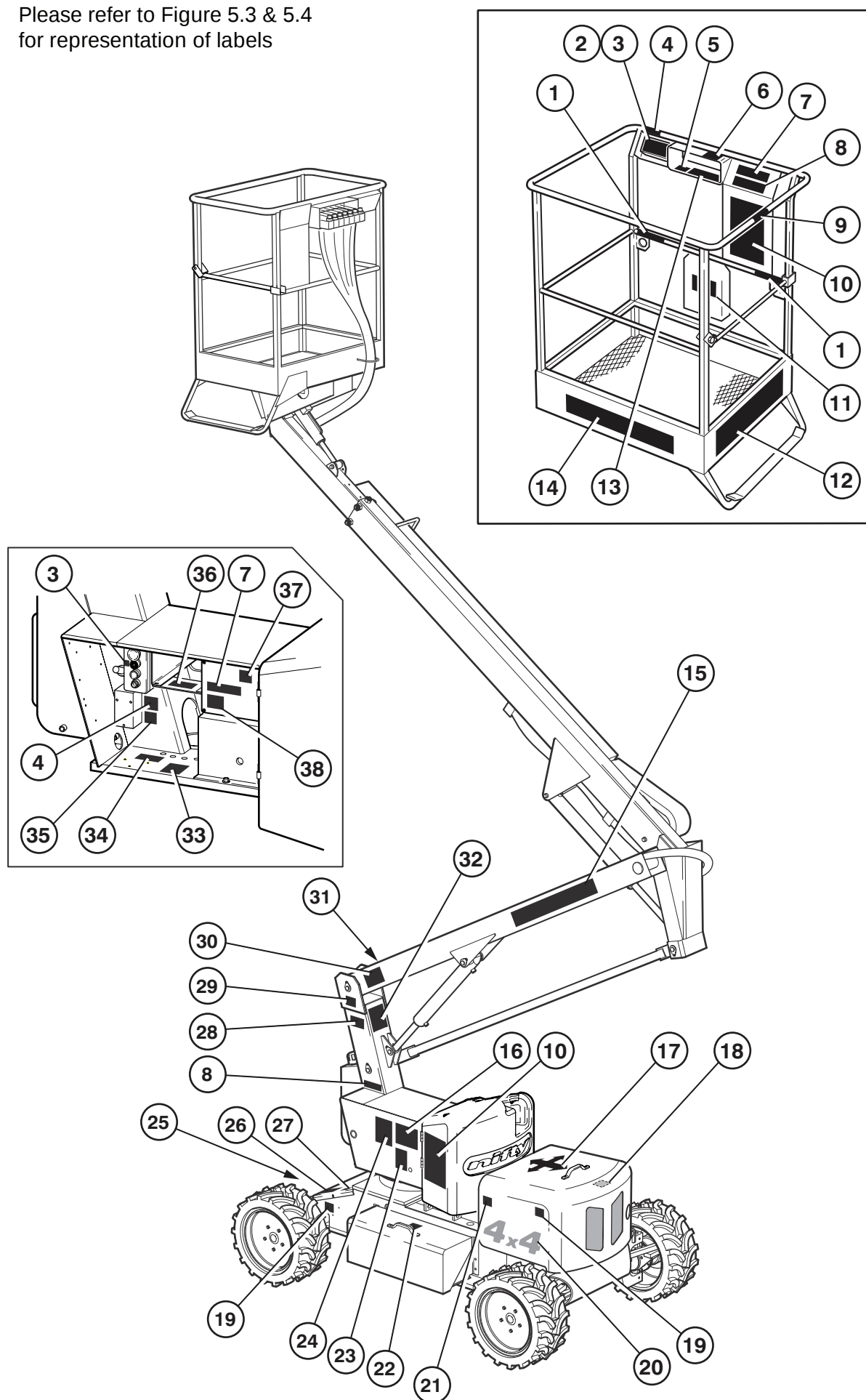
5.1 continued

Item	Description	Part Number
37	Trip switch	P19056
	french	P19056
	german	P19056
	spanish	P19056
	dutch	P19056
	italian	P19056
38	Base/Cage selector	P19445
	french	P19445
	german	P19445
	spanish	P19445
	dutch	P19445
	italian	P19445

french
german
spanish

labelling

Please refer to Figure 5.3 & 5.4
for representation of labels



french
german
spanish

labelling

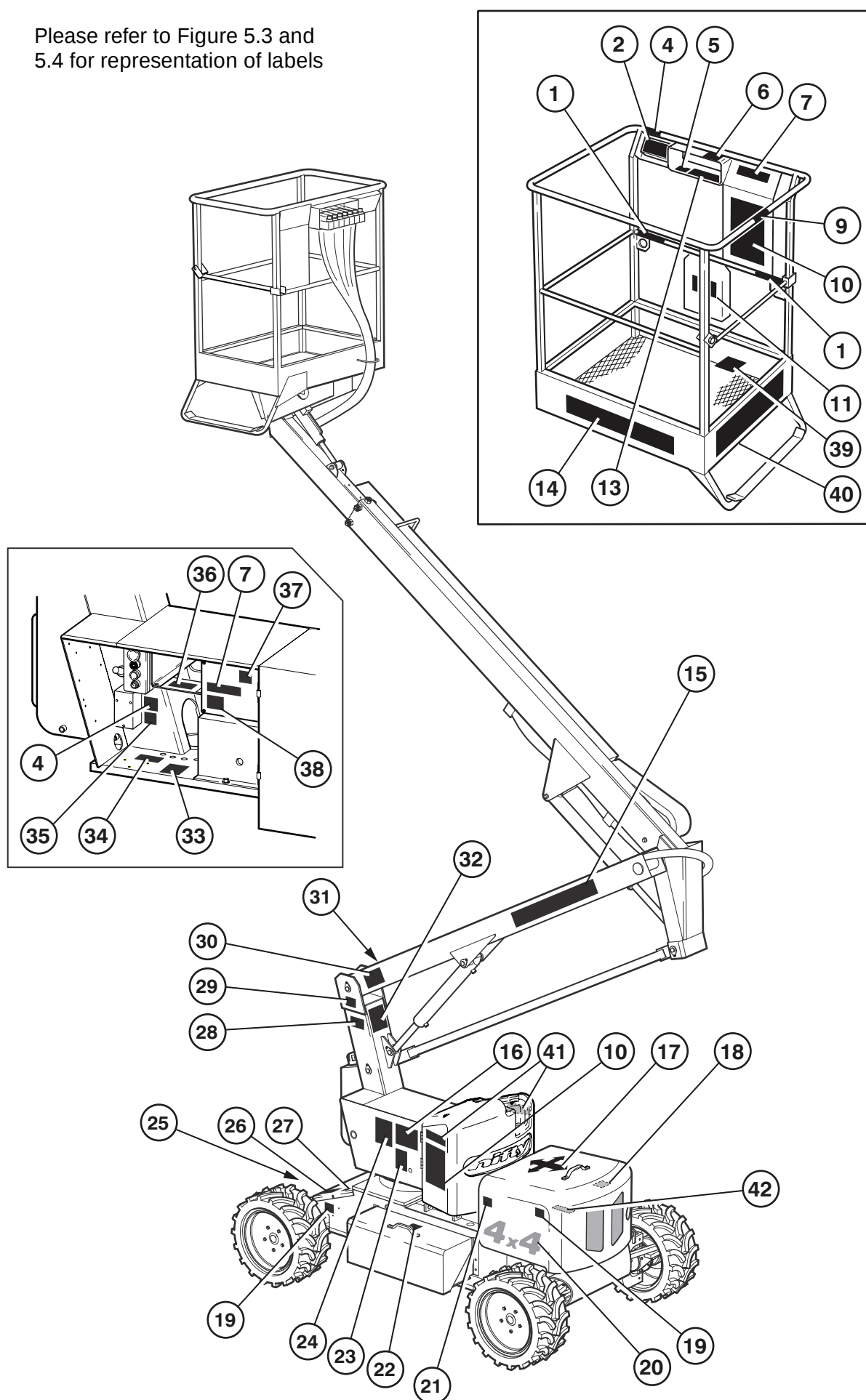
5.2 Label locations SP34 (USA)

Item	Description	Part Number
1	Harness point	P14883
2	Cage control box	P18961
4	E-Stop - Do not disable	P14864
5	Platform levelling	P10853
6	Battery management	P11777
7	Tilt alarm	P14868
9	Cage gate warning	P18432
10	General warning	P18672
11	Operating instructions	P14892
13	Cage - Hydraulic control levers	P14939
14	niftylift.com	P14390
15	Logo - SP34	P14616
16	General Notice	P18870
17	Travel direction	P14784
18	Diesel fuel	P14414
19	Point load - 20.8 kN	P20634
20	Logo - 4x4	P14697
21	Noise warning	P17124
22	No step	P14785
23	Battery charging	P14904
24	Daily safety check list	P14908
25	Drive wheel lock	P19444
26	Brake release	P18788
27	Battery isolator	P18600
28	Foam filled tyres	P14932
29	Crush hazard	P14782
30	Component stability	P19708
31	Head protection	P14921
32	Identification plate (Blank)	P15383
33	Booms/Brakes selector	P19446
34	Manual descent	P19716
35	Base control	P15221
36	Base - Hydraulic control levers	P14936
37	Trip switch	P19056
38	Base/Cage selector	P19445
39	Footswitch	P14884
40	Platform capacity - 500lbs	P17328
41	Rotating machinery	P15010
42	CARB regulations	P15334

french
german
spanish

labelling

Please refer to Figure 5.3 and 5.4 for representation of labels



french
german
spanish

labelling

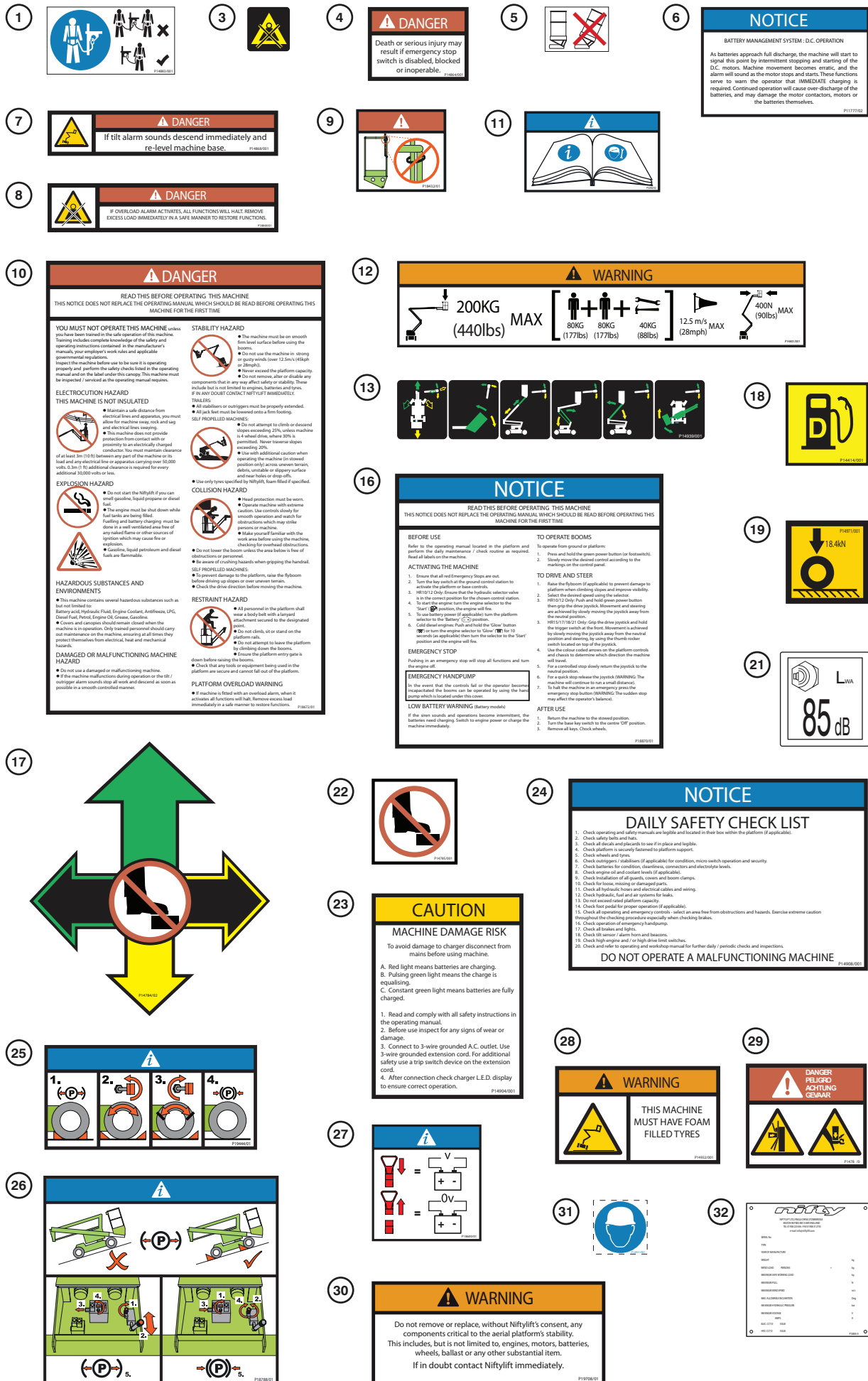
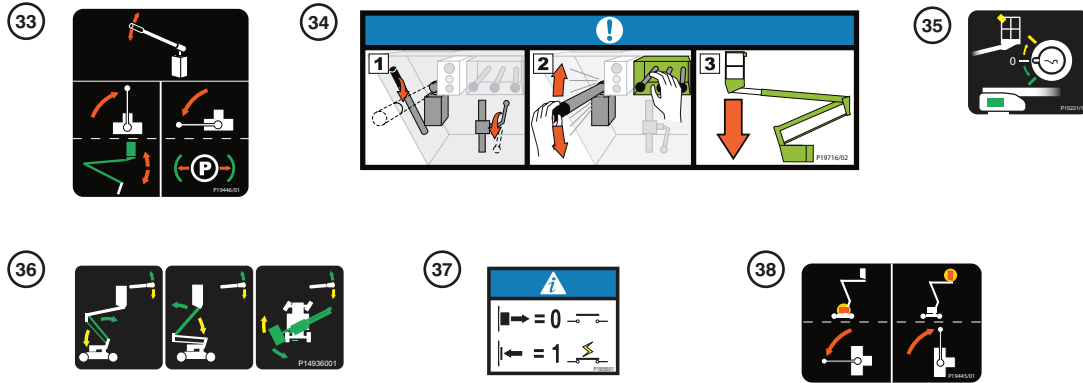
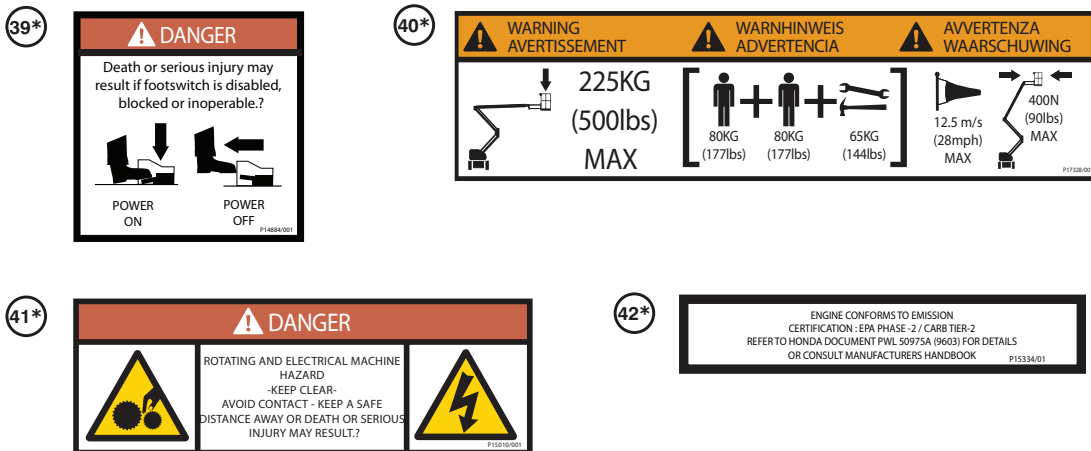


Figure 5.3 Labels (1-32)



***USA Only**



french
german
spanish

labelling

