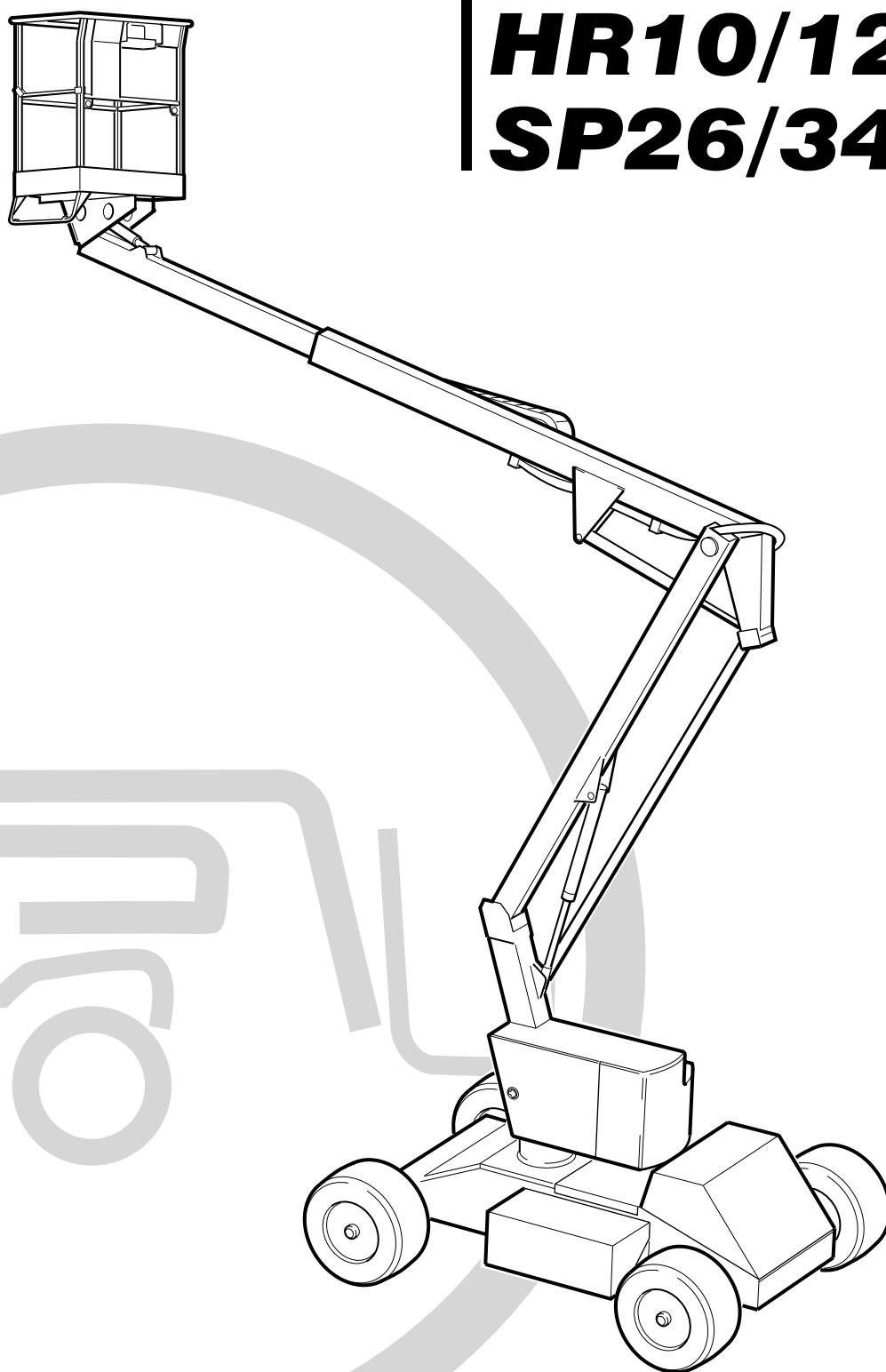




nifty



HR10/12 SP26/34

Issued with machine serial number

* See page viii

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.
573 Summerdale Avenue
Glen Ellyn
IL 60137-5726
USA

Tel	+44 (0)1908 857860/857861	1 630 858 2575
Fax	+44 (0)1908 312733	1 630 858 0520

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.
573 Summerdale Avenue
Glen Ellyn
IL 60137-5726
USA

Tel	+44 (0)1908 857860/857861	1 630 858 2575
Fax	+44 (0)1908 312733	1 630 858 0520

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.
573 Summerdale Avenue
Glen Ellyn
IL 60137-5726
USA

Tel	+44 (0)1908 857860/857861	1 630 858 2575
Fax	+44 (0)1908 312733	1 630 858 0520

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.
573 Summerdale Avenue
Glen Ellyn
IL 60137-5726
USA

Tel	+44 (0)1908 857860/857861	1 630 858 2575
Fax	+44 (0)1908 312733	1 630 858 0520

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 857860/1****Bestellformular für Ersatzteile** (bitte Kopien zur zukünftigen Verwendung machen) **fax +44 (0)1908 312733****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			
P			
P			
P			
P			

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

1

chassis

page

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2

superstructure

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Issue Records

Chapter	Pages	Issue	Date	Comments/Changes
Introduction	8	3	04/2003	Third issue
1	20	3	04/2003	Revised for 'DC Power pack, Drive Control Valve' (Pages 1-10 to 1-13)
2	18	3	04/2003	Revised for 'Button box contacts' (Pages 2-10/11)
3	16	3	04/2003	Revised for 'Levelling cylinder' (Pages 3-12/13)
4	8	3	04/2003	Revised for 'Control box contacts' (Pages 4-4/5)
5	22	1	03/2003	First issue
6	8	1	03/2003	First issue

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

Tel +44 (0)1908 857899

Fax +44 (0)1908 227460



nifty

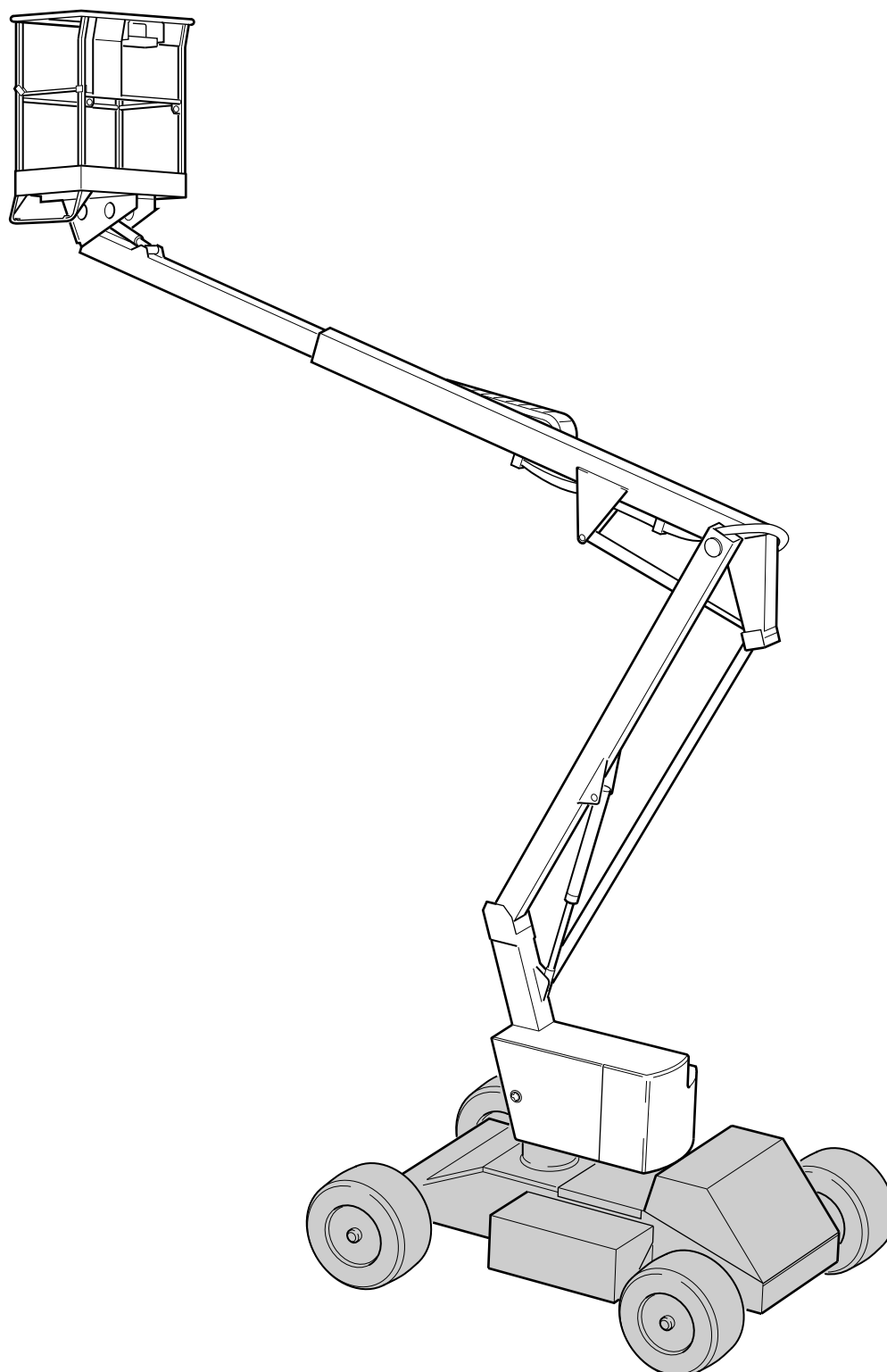
HR10/12 (SP26/34)

illustrated parts manual

Manuel illustré de pièces détachées

Illustrierte Stückliste

Manual de piezas ilustrado



1

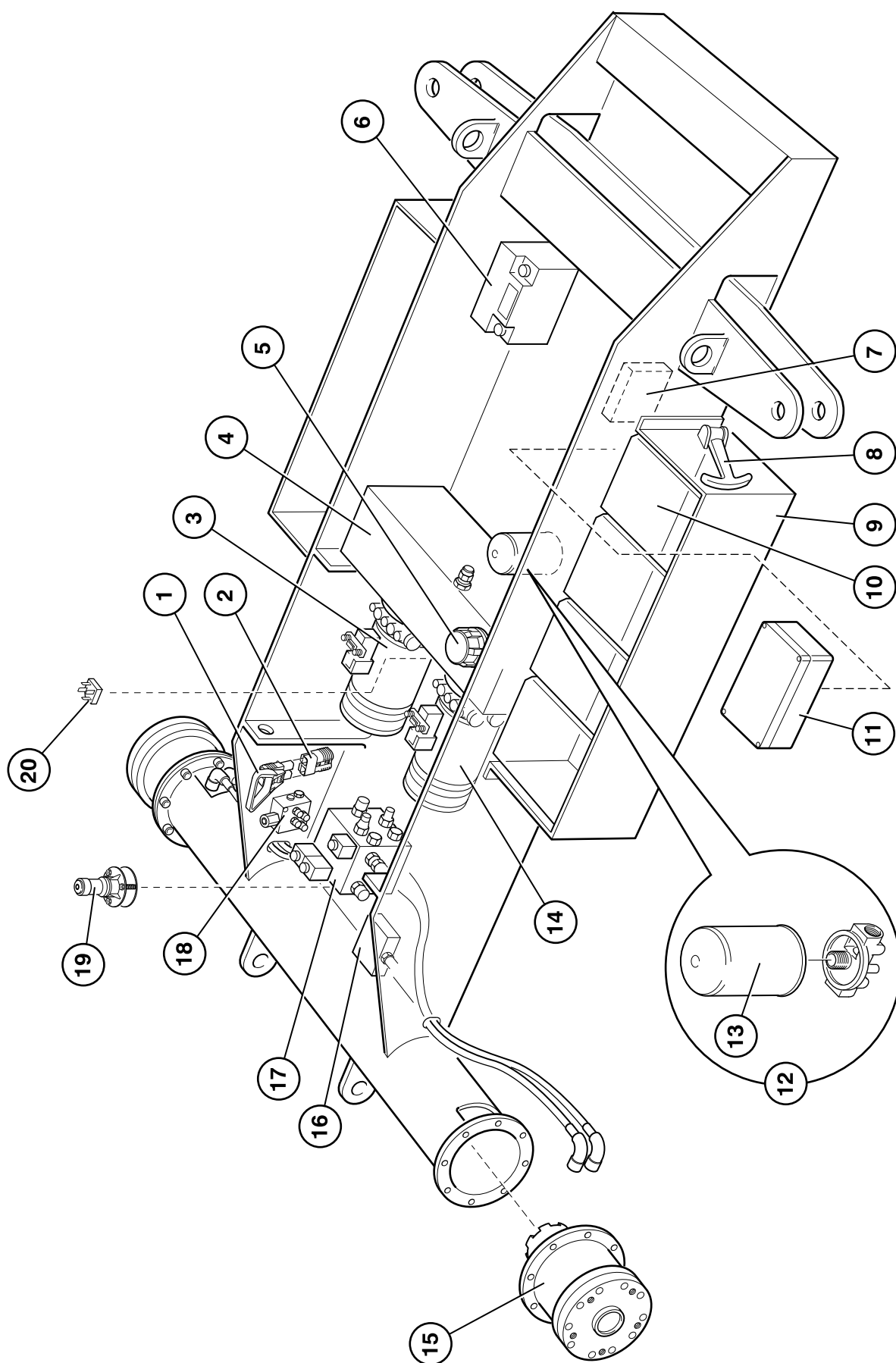
chassis assembly
french
german
spanish

1.1 Base assembly

Item	Description	french	german	spanish	Part Number
1	Handle - 2 pole anderson				P15019
2	Anderson connector				P13377
3	Power pack LH (1.6 cc pump) - See "DC Power pack (Hydr-app)" on page 1-10.				P16210
4	Hydraulic oil tank				P15360
5	Filler cap and filter				P10136
6	Battery - 12v				P11975
7	Regulator (Bi-energy only)				P13637
8	Bonnet catch (Bi-energy only)				P11312
9	Battery carrier (Bi-energy only)				P10786
10	Battery (Bi-energy only)				P10829
11	Diesel control box - See "Diesel box" on page 1-18.				P13627
12	Hydraulic oil filter and bowl assembly				P10137
13	Hydraulic oil filter - Replacement cartridge				P10766
14	Power pack RH (2.5 cc pump) - See "DC Power pack (Hydr-app)" on page 1-10.				P16211
15	Gearbox				P15698
16	Terminal box assy				P14370
17	Drive control valve - See "Drive control valve" on page 1-12.				P16219
18	Brake release valve				P15777
19	Tilt sensor				P14379
20	Bridge rectifier				P11362

french
german
spanish

chassis assembly


french
german
spanish

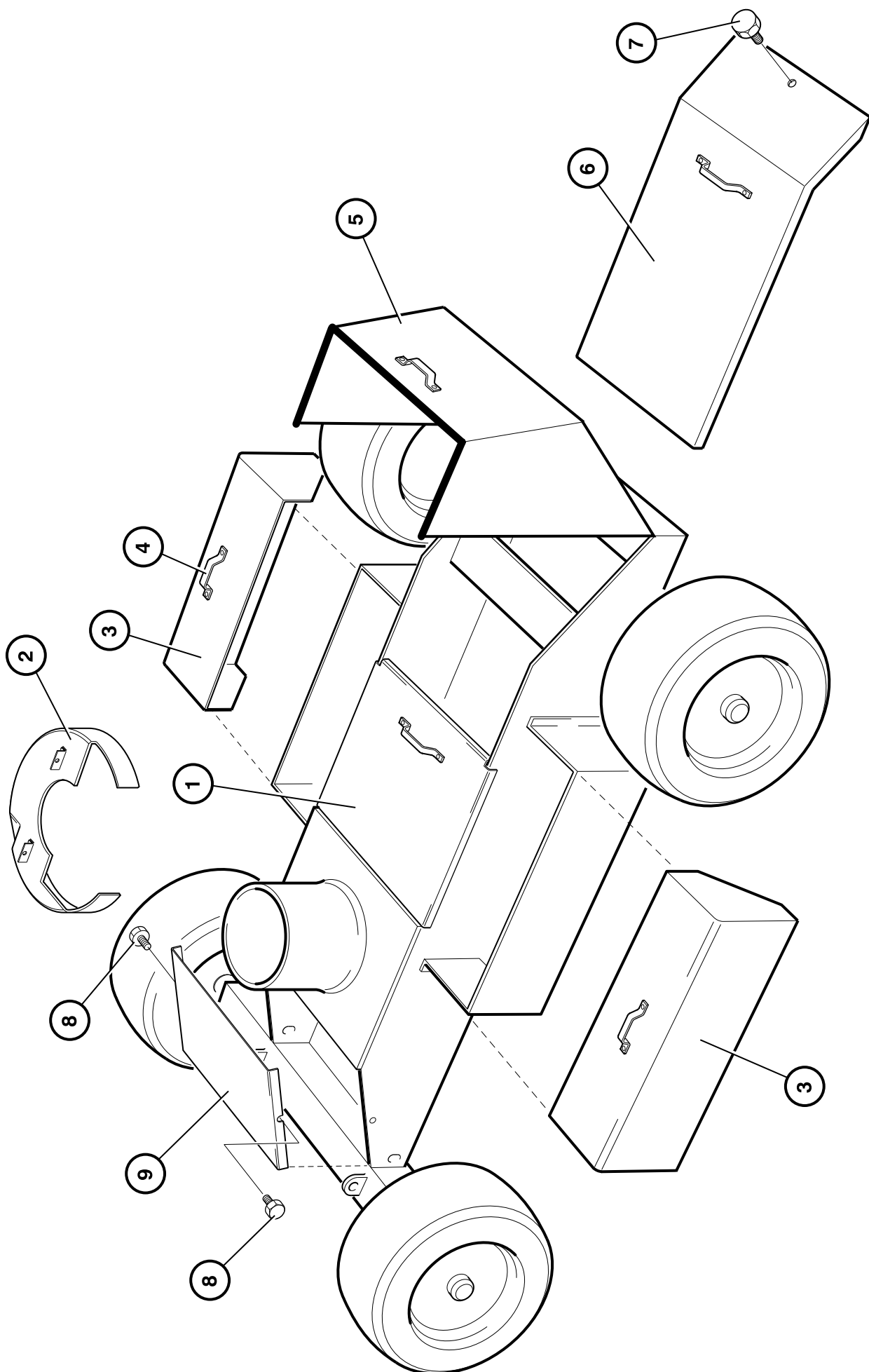
chassis assembly

1.2 Bonnets/Covers/Guards

Item	Description	french	german	spanish	Part Number
1	Middle bonnet - HR10 Bi-energy HR12 Narrow Bi-energy HR12 Wide Bi-energy				P10332 P12241 P11264
2	Slew Guard				P10795
3	Battery cover				P10822
4	Handle				P10241
5	Front bonnet - HR12 Narrow Bi-energy HR12 Wide and HR10 Bi-energy				P12237 P10331
6	Front bonnet - HR10 and HR12 DC				P14241
7	Knob				P10276
8	Knob				P14482
9	Rear bonnet - All models				P14337

french
german
spanish

chassis assembly



french
german
spanish

chassis assembly

1-5

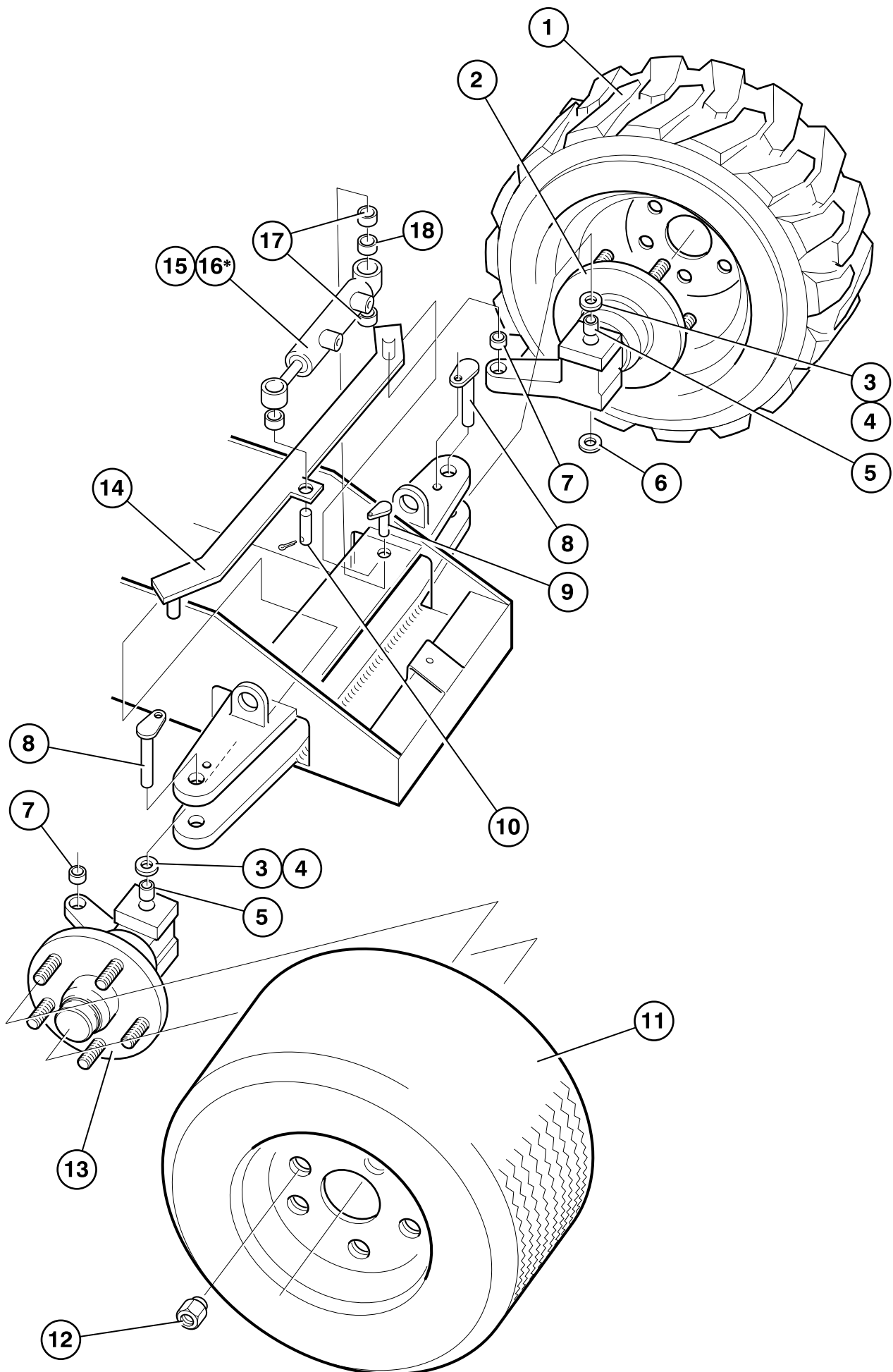
1.3 Steering assembly

Item	Description	french	german	spanish	Part Number
1	Wheel - 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 - HR12 Standard				P11685
12	Wheel nut				P10395
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

french
german
spanish

chassis assembly



french
german
spanish

chassis assembly

1-7

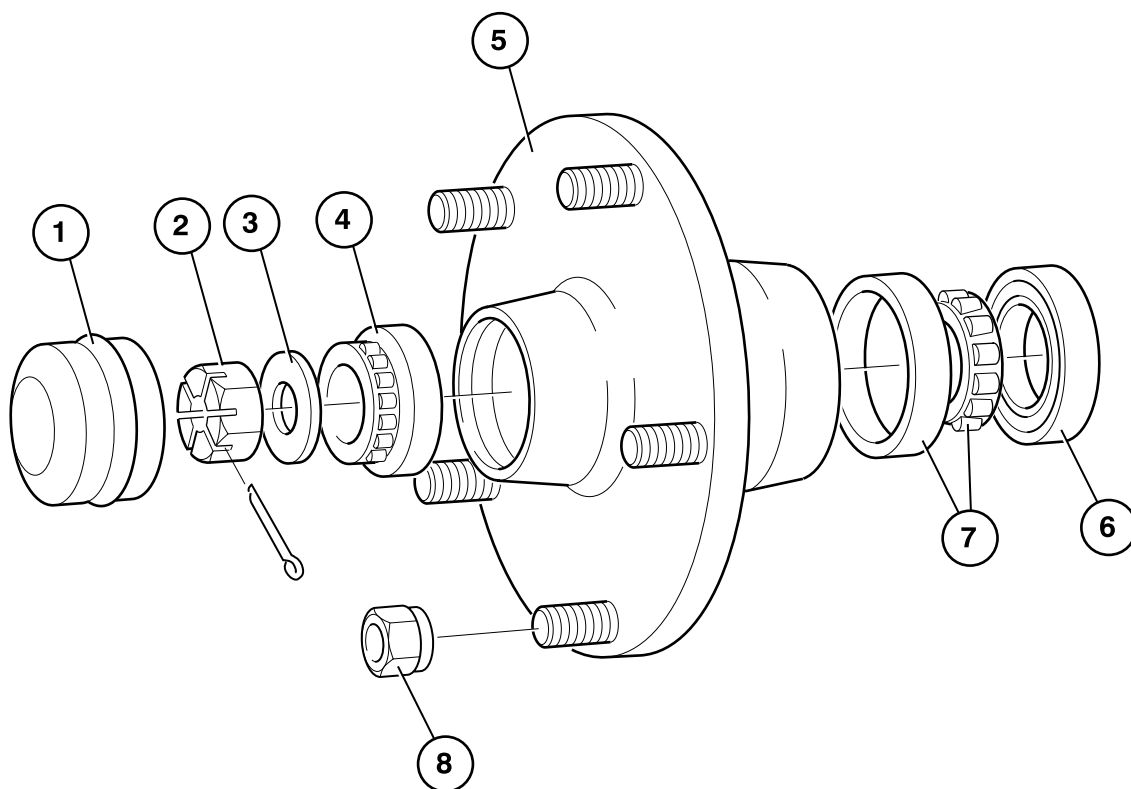
1.4 Front hub assembly

Item	Description	french	german	spanish	Part Number
1	Grease cap				P15450
2	Hub nut				P15452
3	Hub washer				P15451
4	Outer bearing				P15449
5	Hub				P16185
6	Oil seal				P15447
7	Inner bearing				P15488
8	Wheel nut				P70021

french
german
spanish

chassis assembly

1-8


french
german
spanish

chassis assembly

1-9

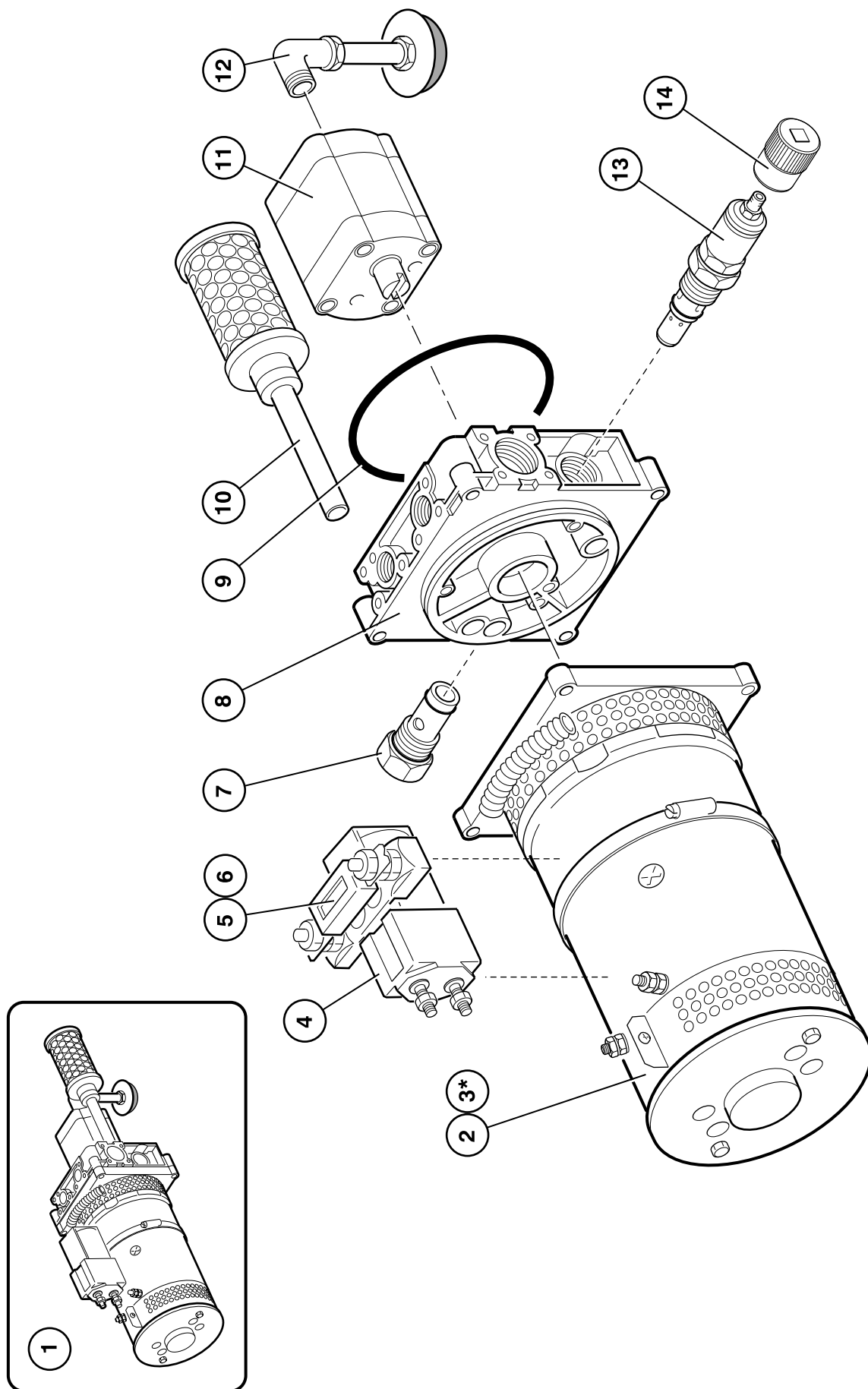
1.5 DC Power pack (Hydr-app)

Item	Description	french	german	spanish	Part Number
1	Power pack assembly 1.6 cc 2.5 cc				P16210 P16211
2	Motor				P16611
3 *	Brushes for item 2				P16703
4	Contact solenoid - 12v (Bi-energy) 24v (DC only)				P11877 P12922
5	Fuse - 225A				P11977
6	Fuse holder				P11976
7	Check valve kit				P16614
8	Flange				P16612
9	O-ring				P16616
10	Filter - Return line				P16734
11	Pump - 1.6 cc 2.5 cc				P16733 P16699
12	Filter - suction				P16700
13	Relief valve kit				P16613
14	Cap				P16615

* Not illustrated

french
german
spanish

chassis assembly



french
german
spanish

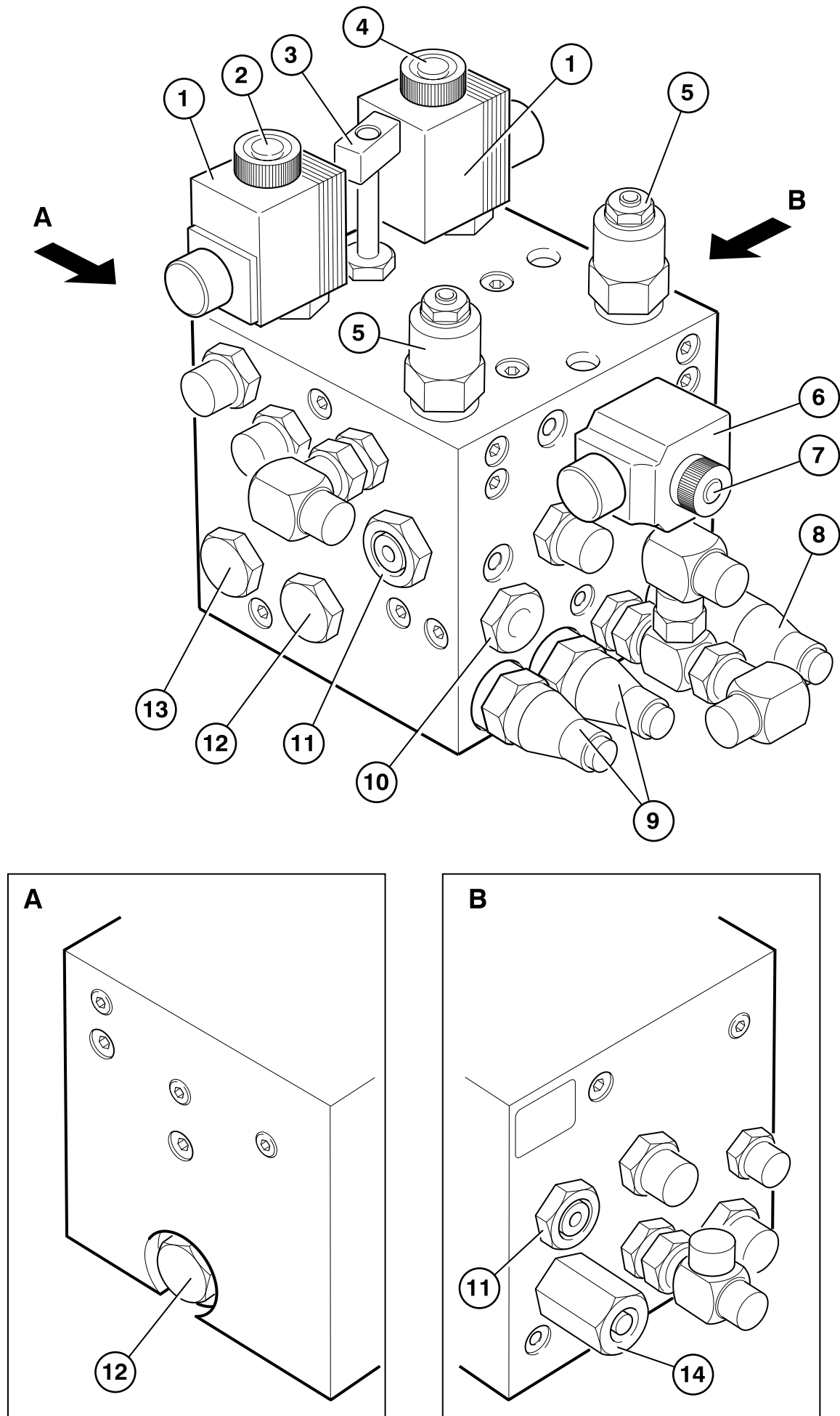
chassis assembly

1.6 Drive control valve

Item	Description	french	german	spanish	Part Number
	Complete assembly				P16219
1	Coil - Diverter solenoid				P15697
2	Diverter solenoid				P15704
3	Brake release valve				P15705
4	Diverter solenoid				P15704
5	Load valve				P15706
6	Coil - 12v brake solenoid 24v brake solenoid				P15696 P15307
7	Brake solenoid				P16775
8	Relief cartridge				P15979
9	Relief cartridge				P16778
10	Check valve				P12810
11	Check cartridge				P15707
12	Check valve				P15709
13	Flow divider				P16776
14	Indicator valve				P16777

french
german
spanish

chassis assembly


 french
german
spanish

chassis assembly

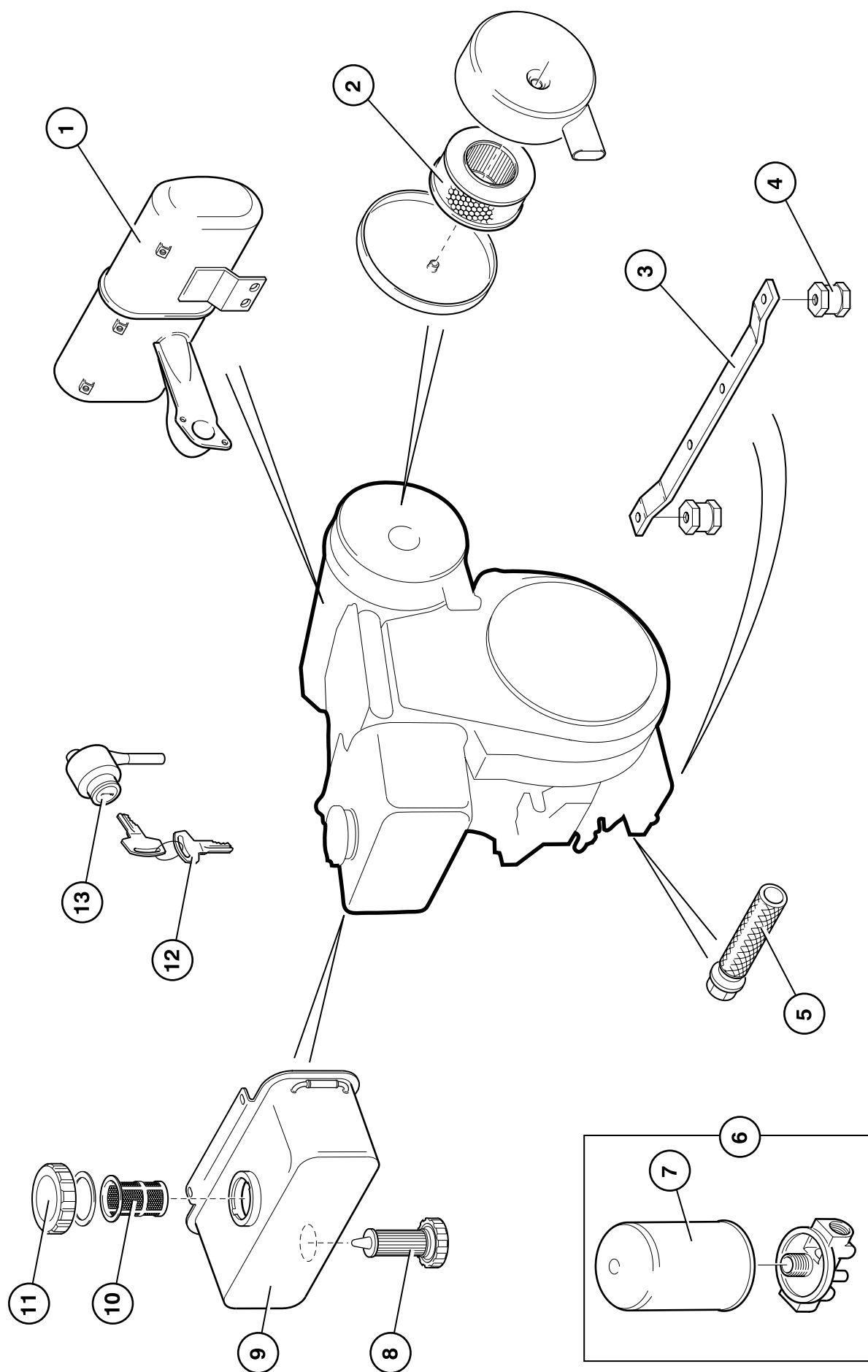
1-13

1.7 Diesel engine (Part 1)

Item	Description	french	german	spanish	Part Number
1	Muffler assembly - OC60 OC95				P13687 P13688
2	Air filter - OC60 OC95				P11947 P12303
3	Engine mount bracket - OC60 OC95				P12808 P12239
4	Engine mount - rubber				P12238
5	Gauze oil filter				P13335
6	Oil filter and bowl assembly				P10137
7	Cartridge - hydraulic oil filter				P10766
8	Fuel filter - OC60 OC95				P13336 P13334
9	Fuel tank assembly OC60 OC95				P15415 P13881
10	Gauze fuel filter				P13284
11	Filler cap				P15505
12	Starter key (Pair)				P11646
13	Starter switch assembly				P12763

french
german
spanish

chassis assembly



french
german
spanish

chassis assembly

1-15

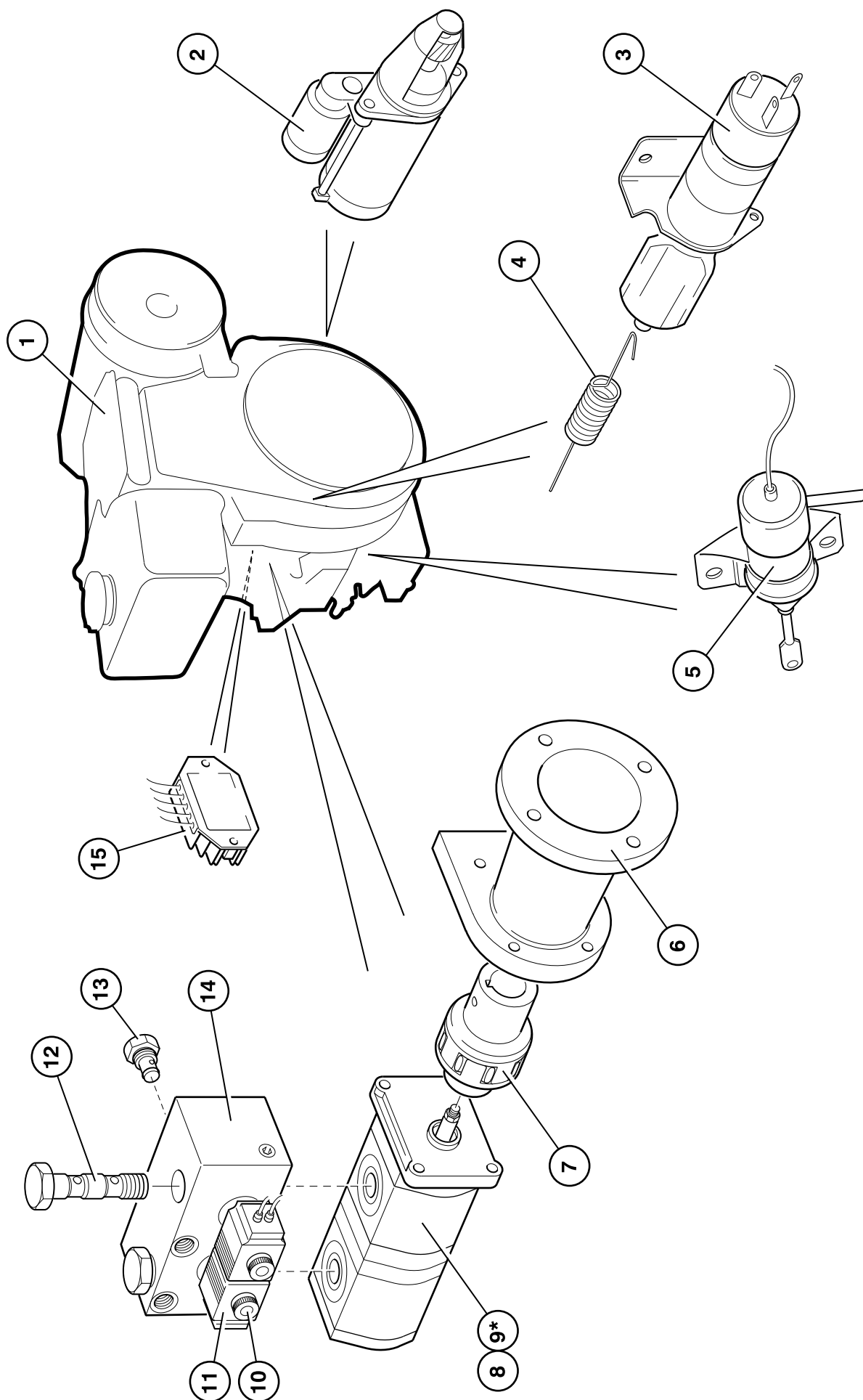
1.8 Diesel engine (Part 2)

Item	Description	french	german	spanish	Part Number
1	Diesel engine - OC60 OC95				P10296 P11931
2	Starter motor assy - OC60 OC95				P11981 P13376
3	Throttle solenoid				P12972
4	Spring				P11135
5	Stop solenoid				P70271
6	Bell housing				P11499
7	Coupling				P11500
8	Pump assembly OC60 OC95				P11991 P12468
9 *	Seal kit for item 8				P13367
10	Valve cartridge				P11927
11	Coil				P11370
12	Banjo bolt				P11948
13	Check valve				P11928
14	Manifold				P11943
15	Regulator				P12640

* Not illustrated

french
german
spanish

chassis assembly


 french
german
spanish

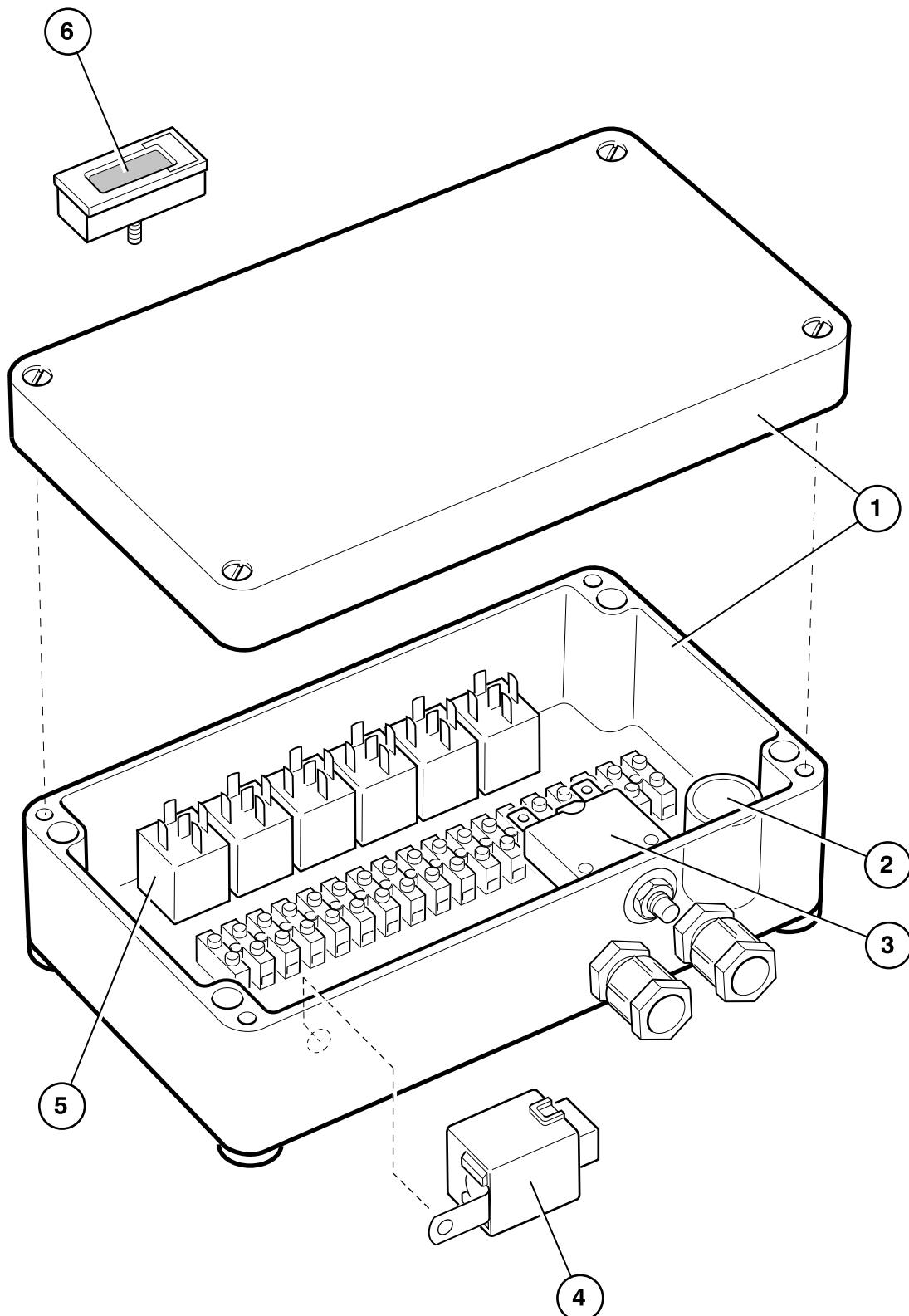
chassis assembly

1.9 Diesel box

Item	Description	french	german	spanish	Part Number
	Complete assembly				P13627
1	ABS Box				P13656
2	Capacitor				P12992
3	Circuit breaker - 10A				P11719
4	Timer relay				P10664
5	Relay				P10340
6	Hour meter (OPTIONAL)				P11499

french
german
spanish

chassis assembly



french
german
spanish

chassis assembly



nifty

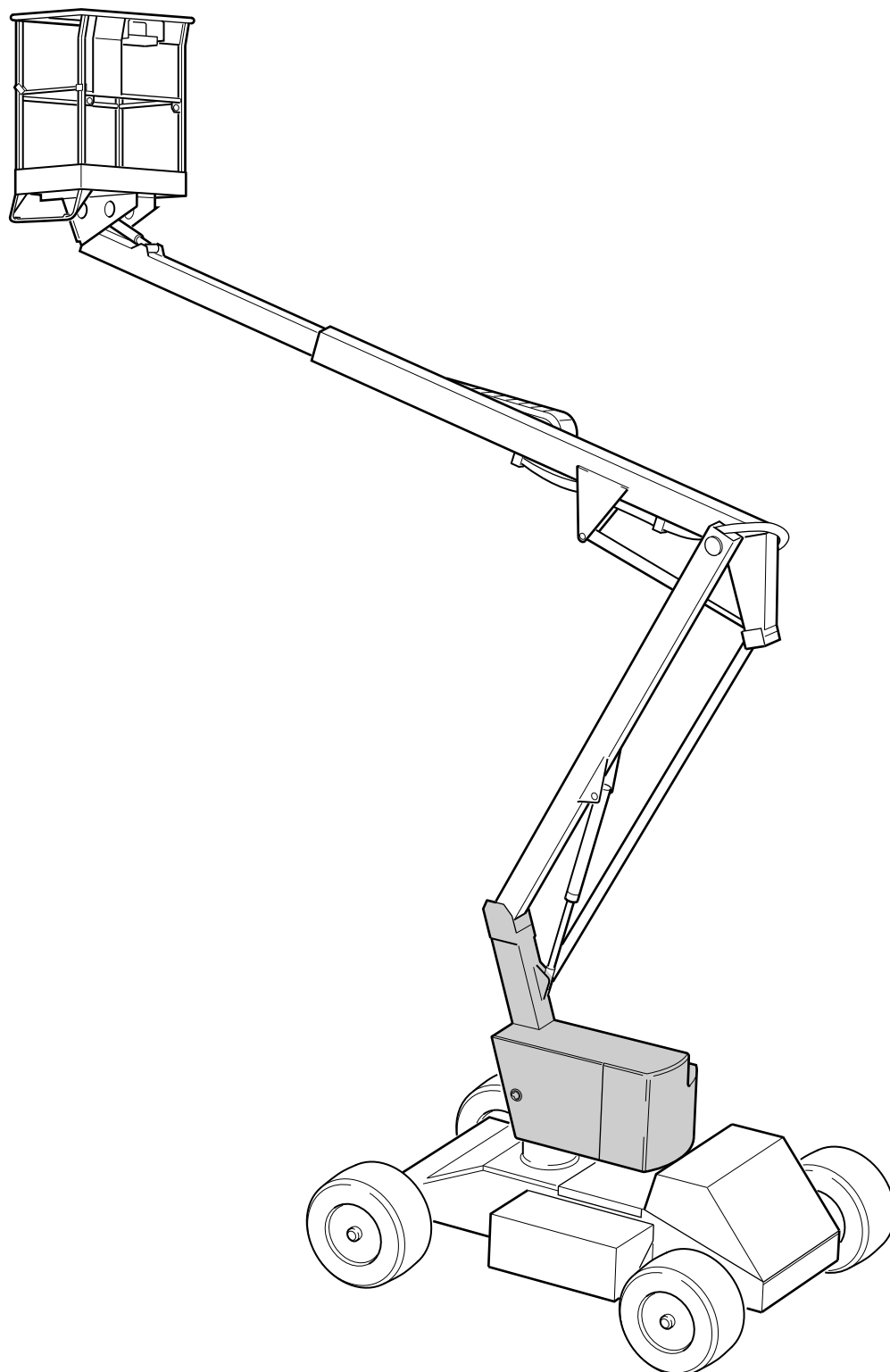
HR10/12 (SP26/34)

illustrated parts manual

Manuel illustré de pièces détachées

Illustrierte Stückliste

Manual de piezas ilustrado



2



superstructure
french
german
spanish

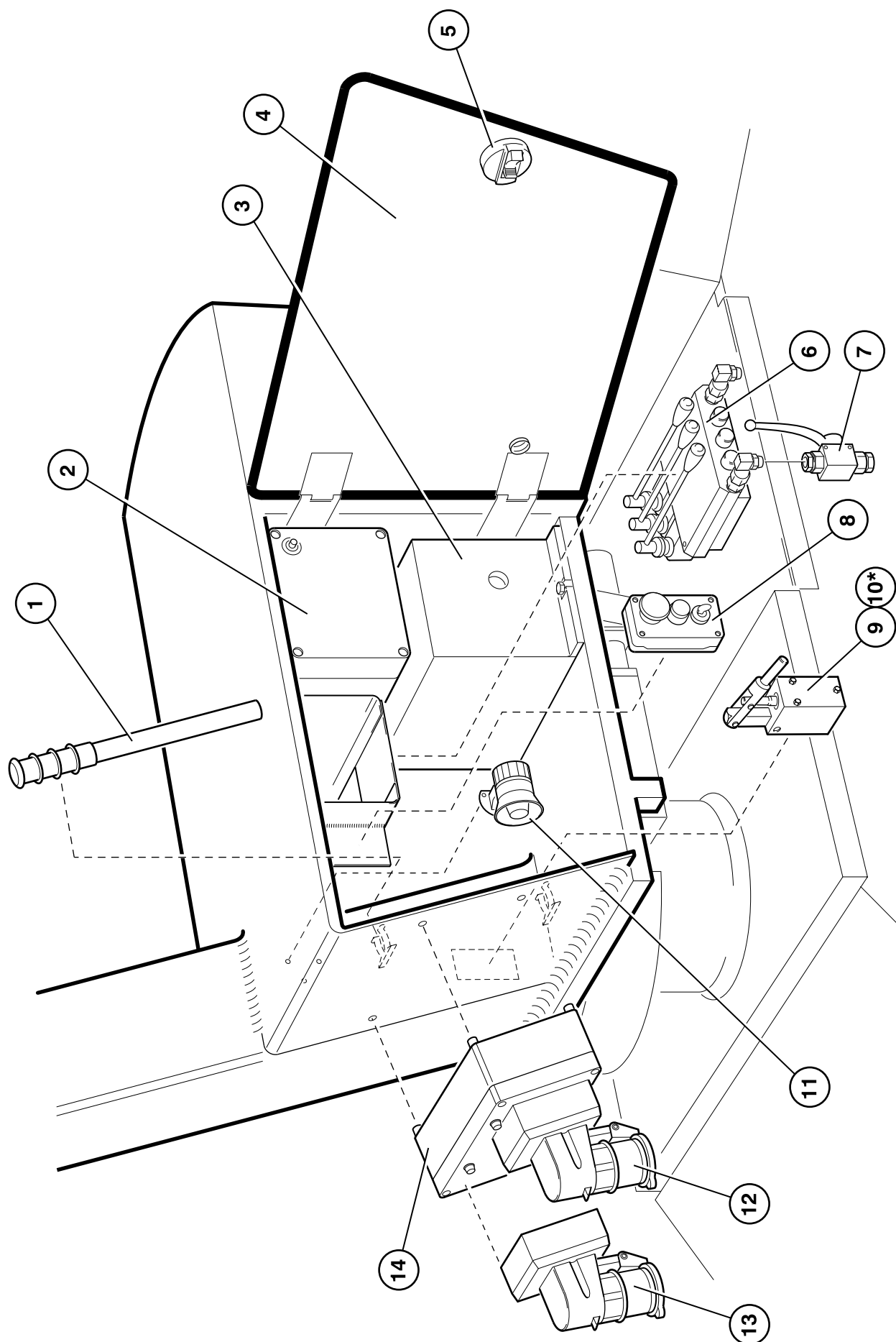
2.1 Base control station assembly

Item	Description	french	german	spanish	Part Number
1	Handle - (Hand pump)				P10624
2	Control box -				P11161
3	Battery Charger UK USA European See "Battery charger" on page 2-16.				P12759 P11751 P11067
4	Access cover				P14474
5	Door latch				P12397
6	Control valve - See "Control valve assembly (3 spool)" on page 2-6. or "Control valve assembly (4 spool)" on page 2-8				P15514 P15518
7	Diverter valve Lever ONLY				P10702 P14397
8	Button box - See "Button box assembly" on page 2-10.				P15133
9	Emergency hand pump				P12422
10 *	Seal kit for item 9				P12906
11	Siren				P11113
12	110v inlet ONLY				P10750
13	240v inlet ONLY				P10174
14	Dual voltage charger box - See "Dual voltage charger box" on page 2-14.				P10599

* Not illustrated

french
german
spanish

superstructure



french
german
spanish

superstructure

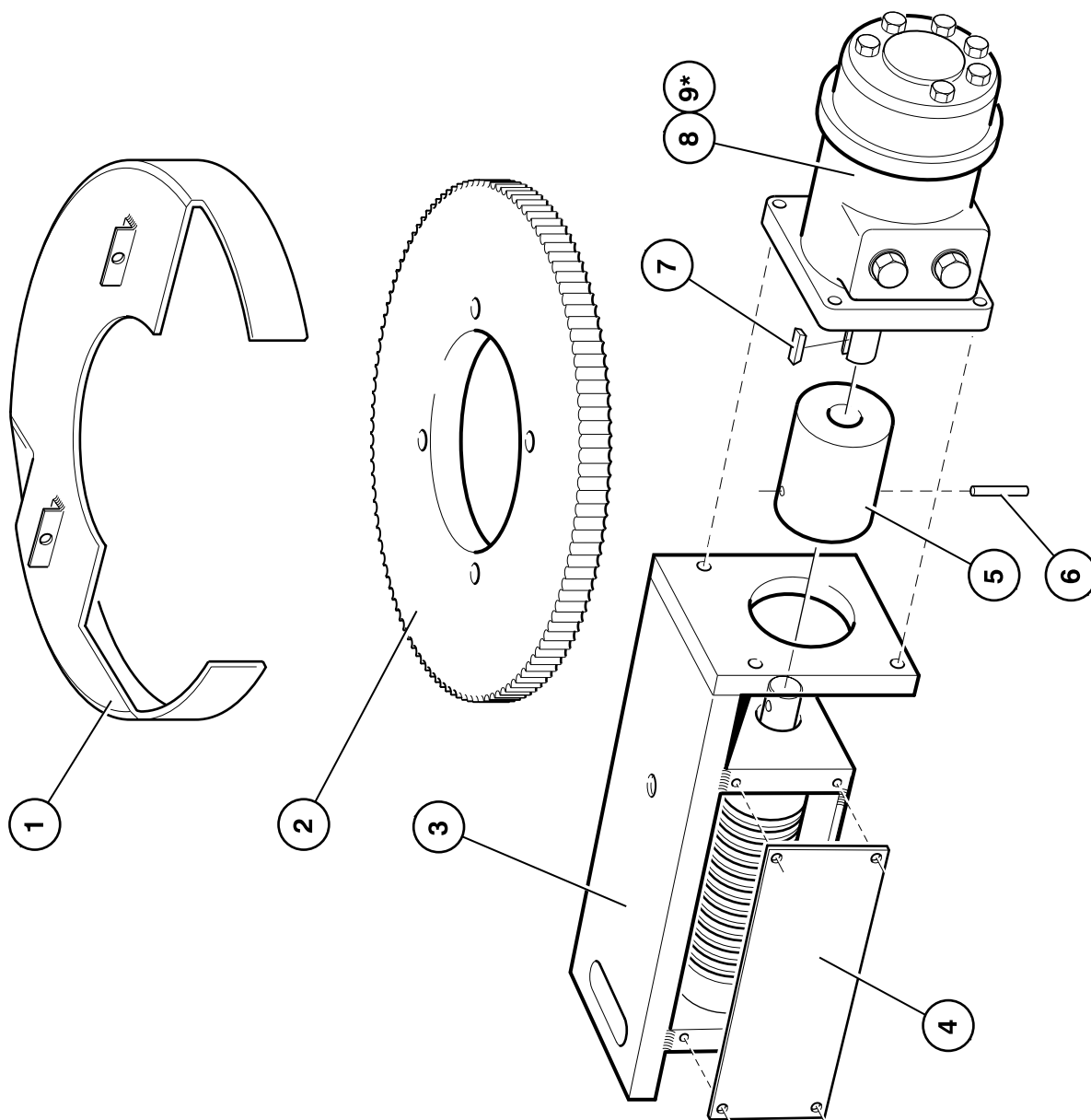
2.2 Slew assembly

Item	Description	french	german	spanish	Part Number
1	Guard				P10795
2	Gear wheel - Large Small				P10490 P10013
3	Worm assembly				P10624
4	Cover plate				P10832
5	Coupling				P10042
6	Roll pin				P70112
7	Drive shaft key				P14378
8	Motor				P14305
9 *	Seal kit for item 8				P14377

* Not illustrated

french
german
spanish

superstructure



french
german
spanish

superstructure

2-5

2.3 Control valve assembly (3 spool)

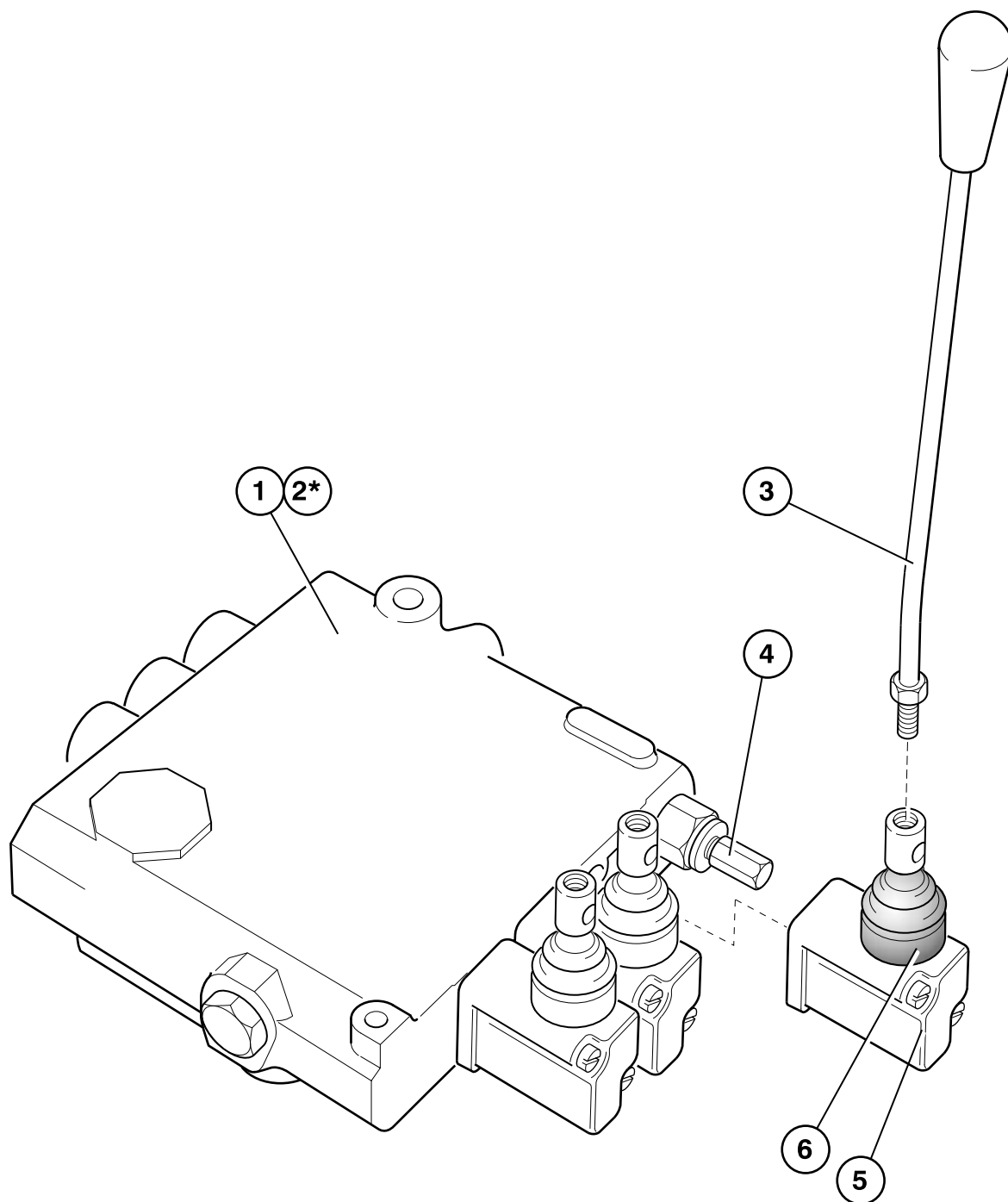
Item	Description	french	german	spanish	Part Number
1	Control valve - Gravity descent or double acting cylinders				P15514
	Non-gravity descent or single acting cylinders				P15515
2 *	Seal kit for item 1				P70337
3	Lever				P70336
4	Pressure relief valve				P70335
5	Lever cap (complete)				P70338
6	Rubber boot				P12225

* Not illustrated

Separate spools available on request

french
german
spanish

superstructure



french
german
spanish

superstructure

2.4 Control valve assembly (4 spool)

Item	Description	french	german	spanish	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

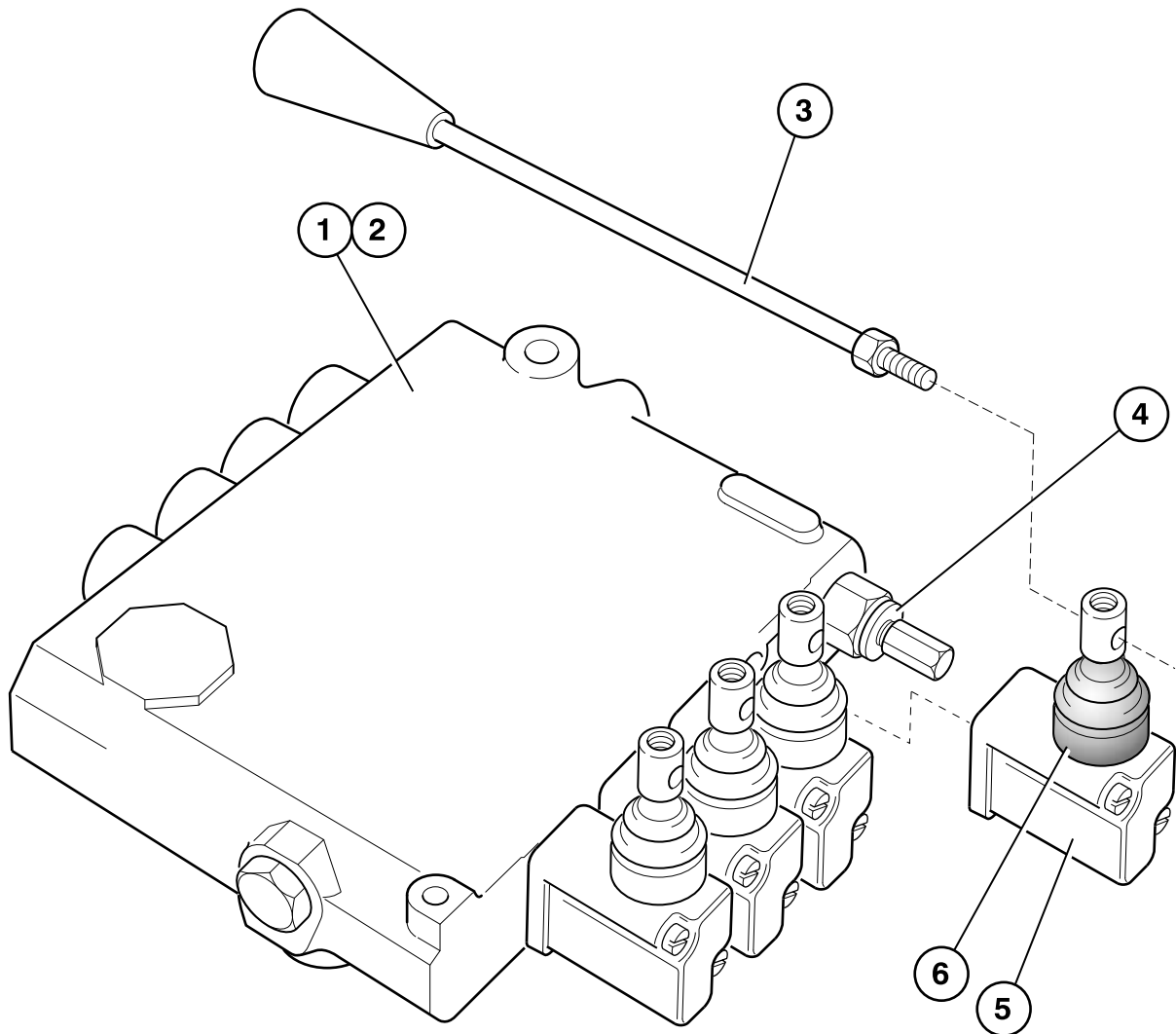
* Not illustrated

Separate spools available on request

french
german
spanish

superstructure

2-8



french
 german
 spanish

superstructure

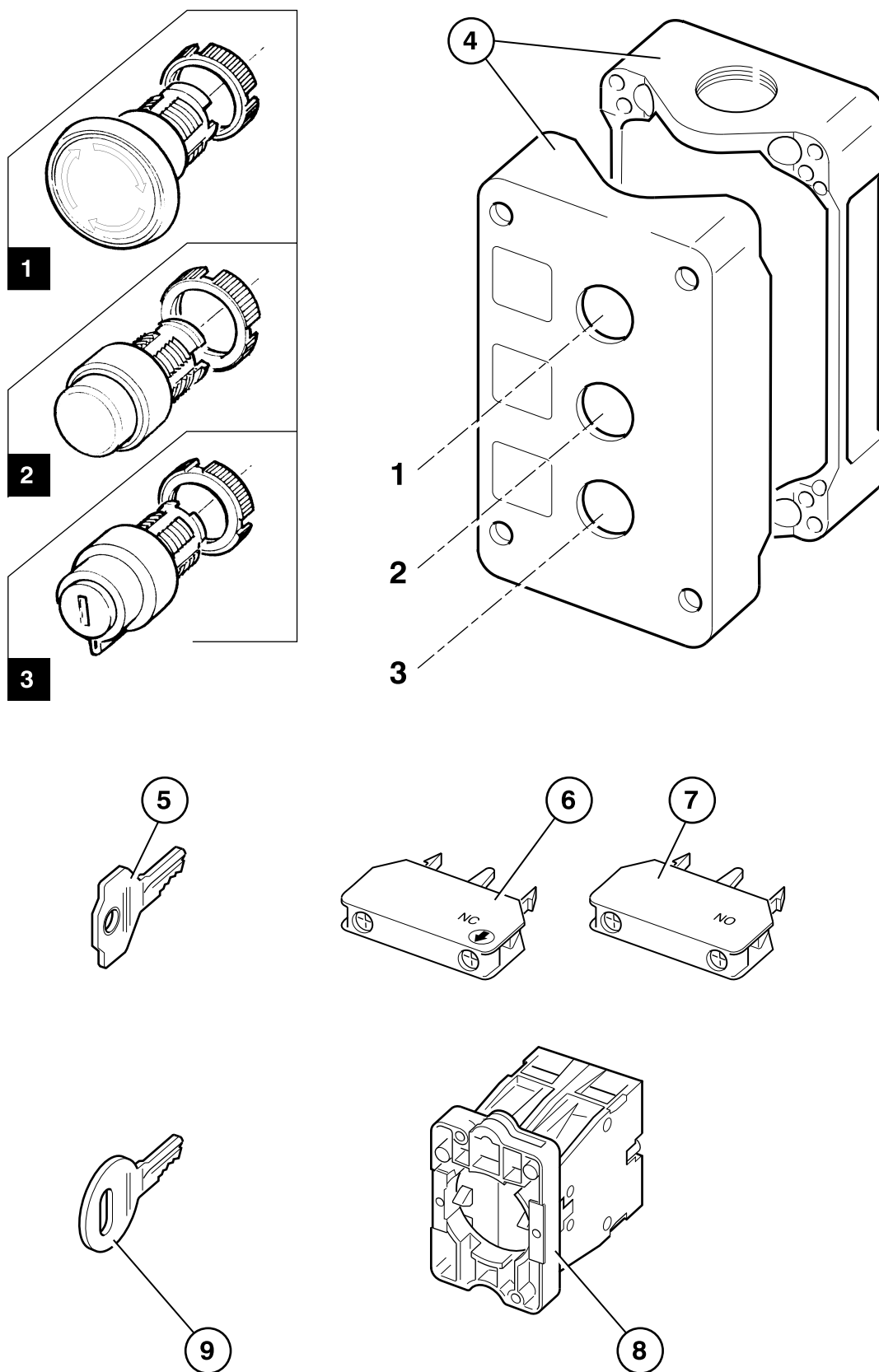
2.5 Button box assembly

Item	Description	french	german	spanish	Part Number
1	Emergency stop button				P15134
2	Green button				P15150
3	Key switch - 420 key key locked in lower and upper position				P15130
	key removable in all positions				P15132
	Key switch - 455 key key locked in lower and upper position				P10081
	key removable in all positions				P10281
4	Button box				P15133
5	Key				P15335
6	Contact - NC (Normally closed)				P15135
7	Contact - NO (Normally open)				P15128
8	Contact - Double NO				P11840
9	Key				P70178

Note: Items 8 and 9 are used with Item 3 - P10081 or P10281

french
german
spanish

superstructure



french
german
spanish

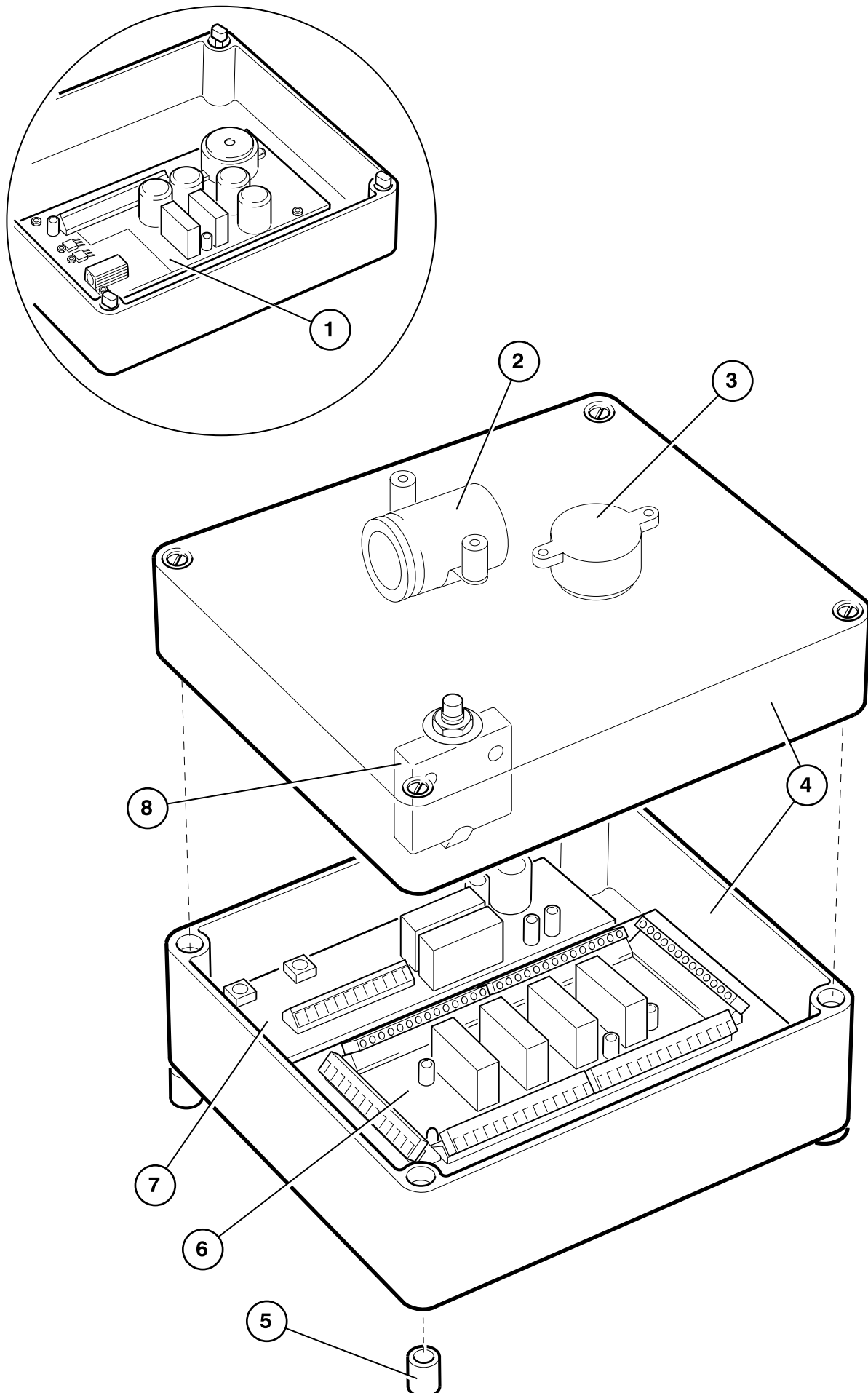
superstructure

2.6 Control box

Item	Description	french	german	spanish	Part Number
1	PCB - Pump				P14300
2	Capacitor				P15528
3	Sounder				P11112
4	ABS box				P11161
5	Nylon spacer				P11863
6	PCB - 12 v 24 v				P11175 P14297
7	PCB (Battery management) - 12v - 24v				P11174 P14298
8	Circuit breaker - 10A				P11719

french
german
spanish

superstructure



french
german
spanish

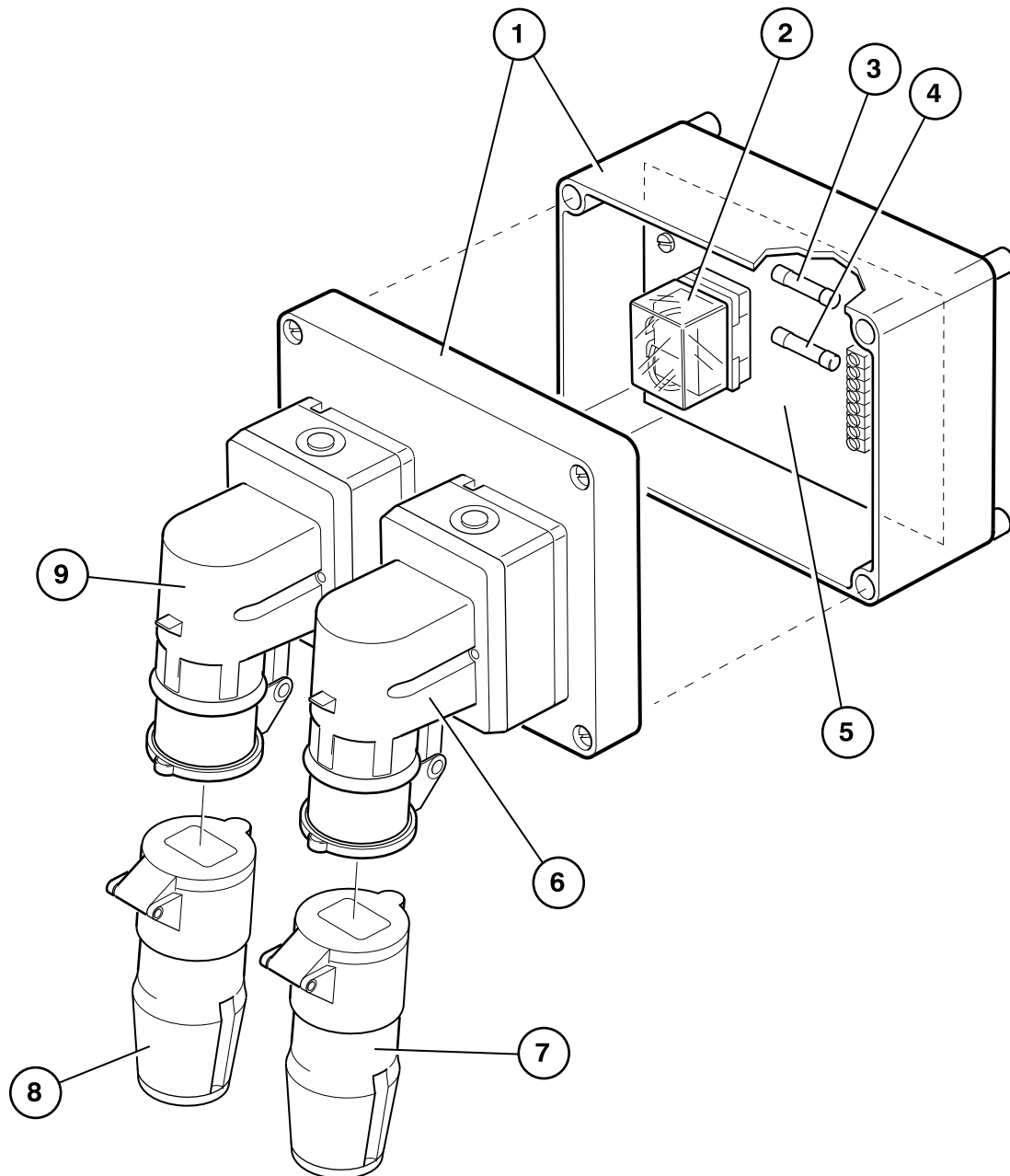
superstructure

2.7 Dual voltage charger box

Item	Description	french	german	spanish	Part Number
1	Box - Complete assembly				P10599
2	Relay				P12879
3	Fuse - 8A				P11934
4	Fuse - 20A				P11935
5	PCB				P13351
6	110v inlet ONLY				P10750
7	Plug - 110v				P10724
8	Plug - 240v				P10268
9	240v inlet ONLY				P10174

french
german
spanish

superstructure



french
german
spanish

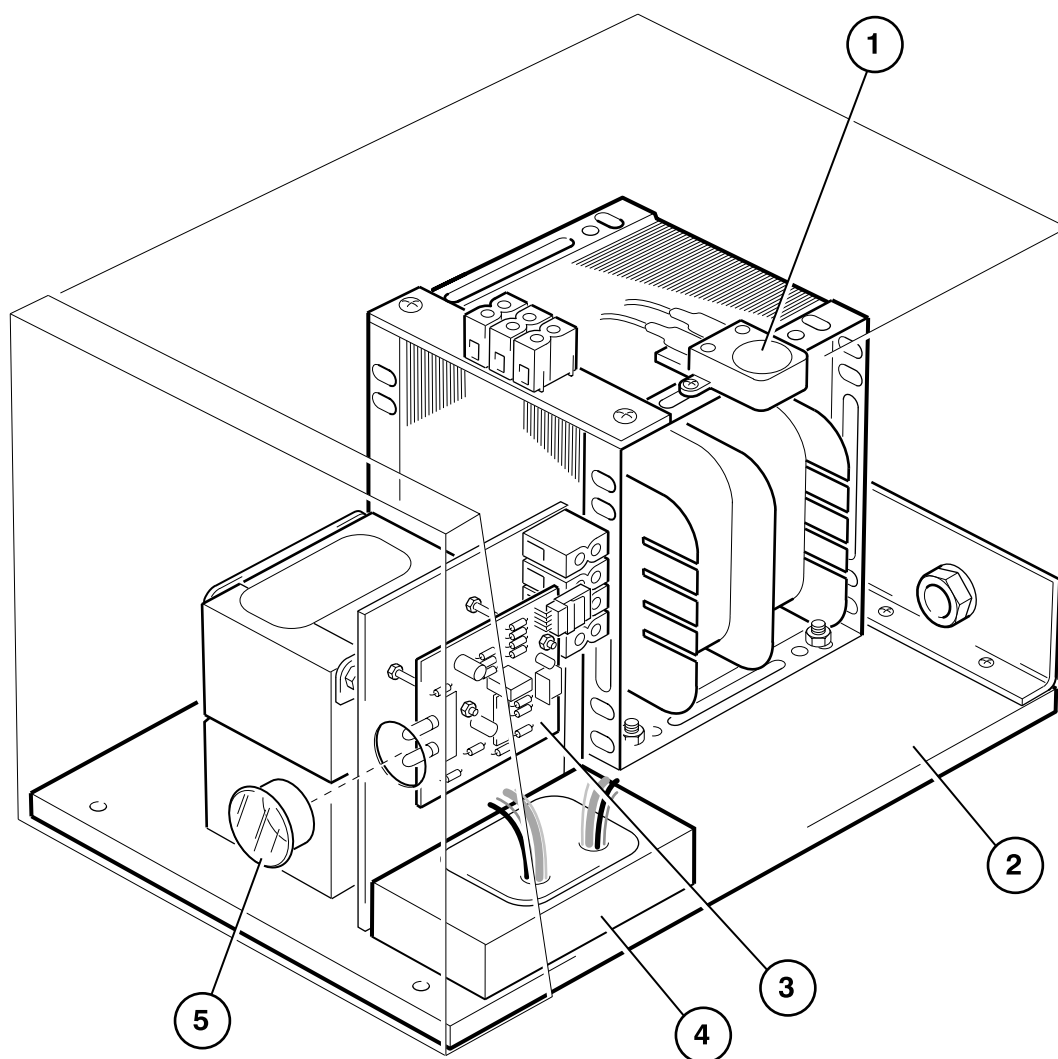
superstructure

2.8 Battery charger

Item	Description	french	german	spanish	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

french
german
spanish

superstructure



french
german
spanish

superstructure



nifty

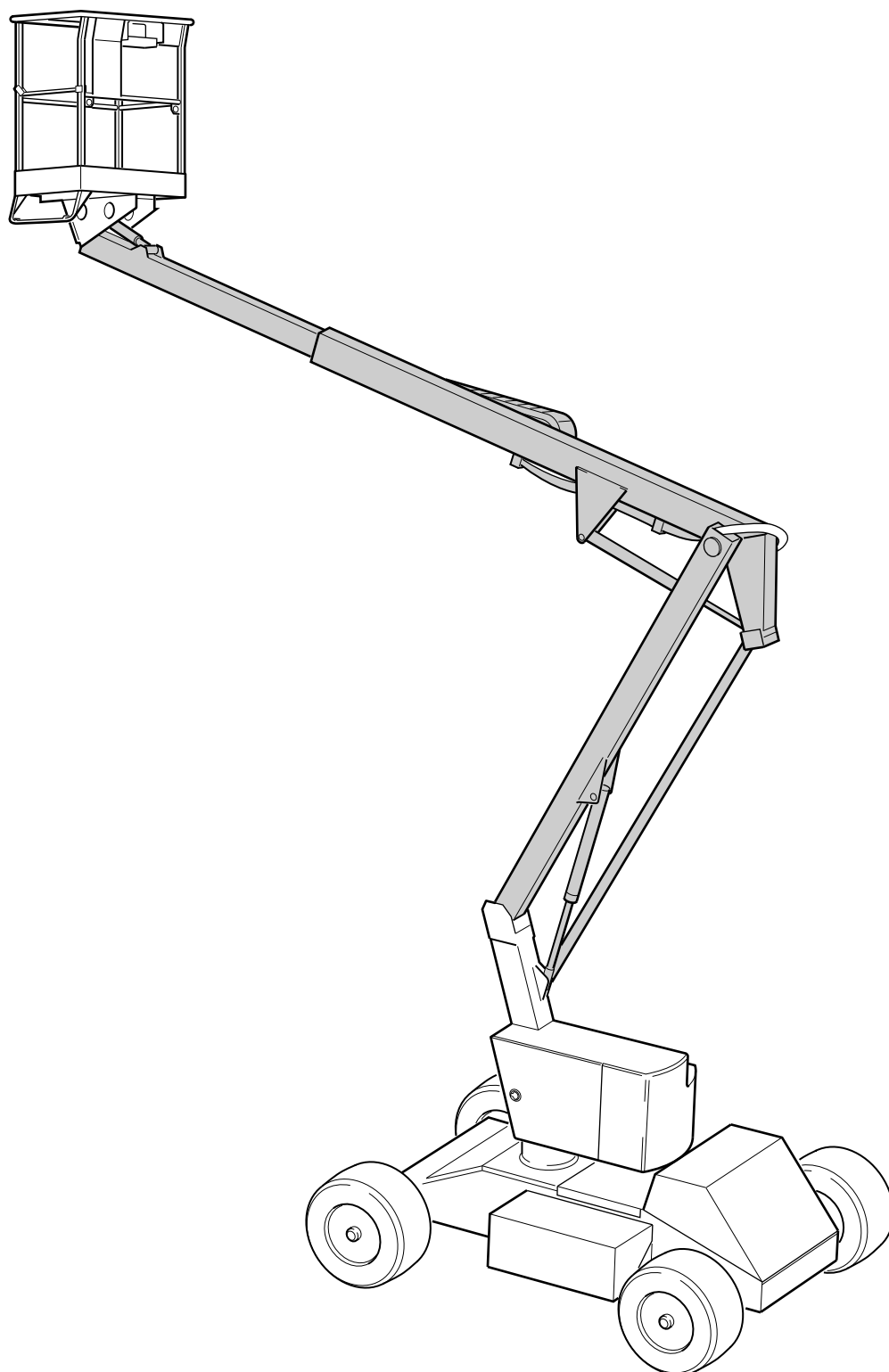
HR10/12 (SP26/34)

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Manual de piezas ilustrado



3



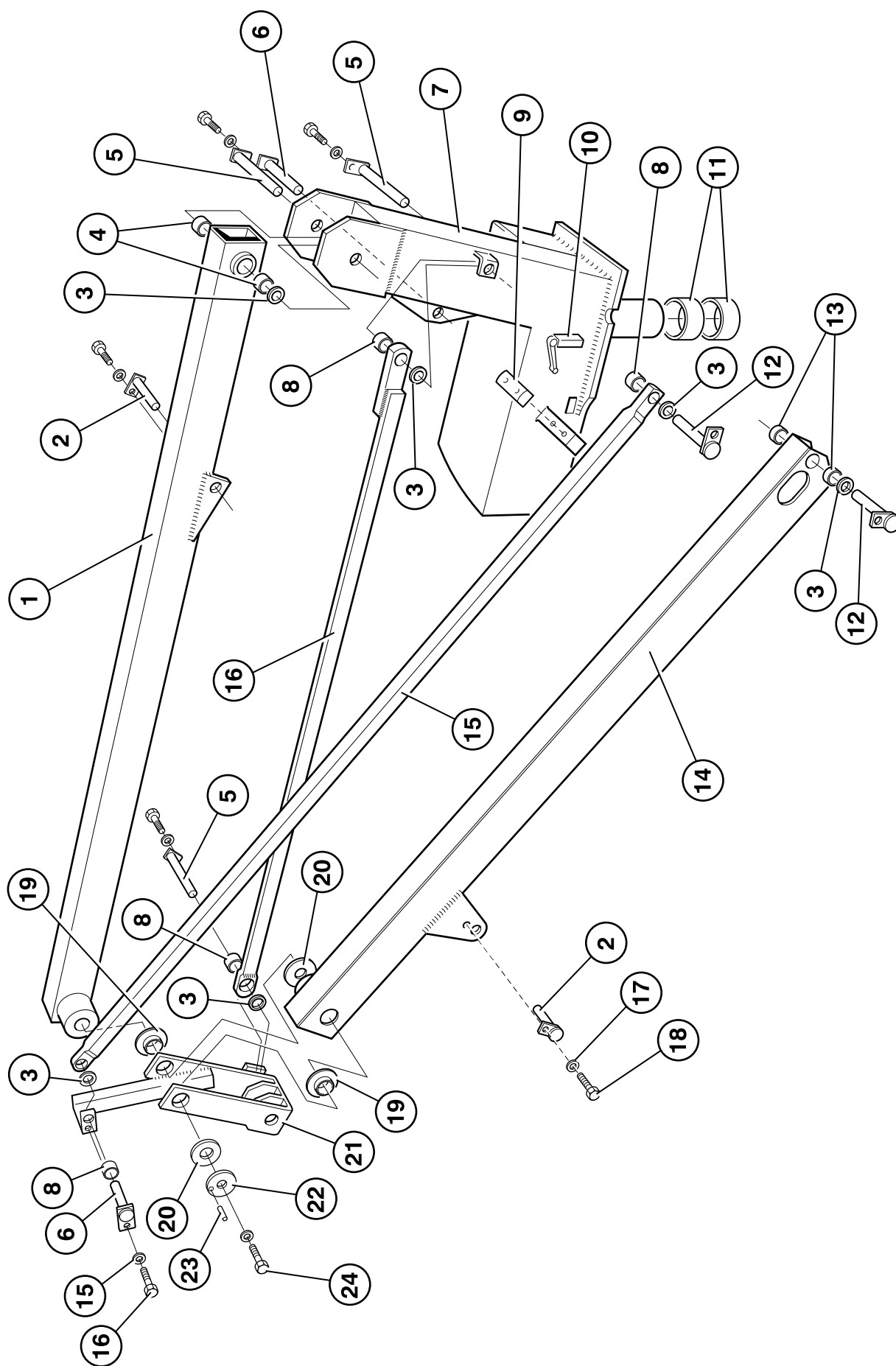
boom assemblies
french
german
spanish

3.1 HR10/SP26 Booms assembly

Item	Description	french	german	spanish	Part Number
1	Boom 2				P10246
2	Pivot pin				P10729
3	Plastic washer				P10035
4	Bush DU2550				P10031
5	Pivot pin				P10023
6	Pivot pin				P10025
7	Boom 1				P10244
8	Bush DU2520				P10032
9	Boom rest - rubber				P10611
10	Wand switch				P11291
11	Bush (bearing)				P10489
12	Pivot pin				P10210
13	Bush DU2525				P10034
14	Boom 3				P10247
15	Levelling rod - Boom 3				P10249
16	Levelling rod - Boom 2				P10248
17	Washer				P70317
18	Tag bolt				P70308
19	Bush				P12719
20	Nylatron washer				P12733
21	Knuckle				P10020
22	End cap				P10037
23	Roll pin for item 22				P70267
24	Bolt and washers for item 22				P70266

french
german
spanish

boom assemblies



french
german
spanish

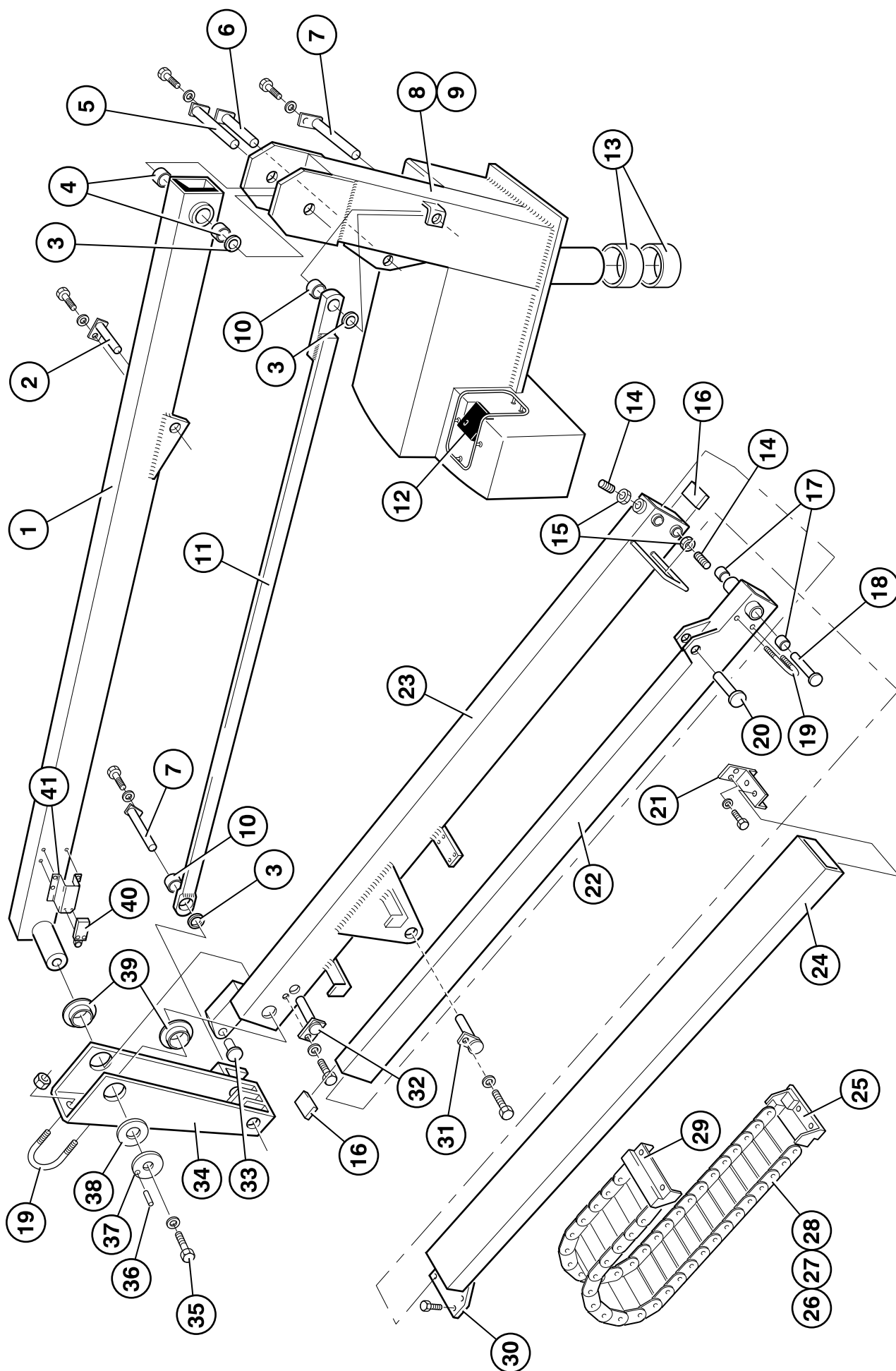
boom assemblies

3.2 HR12/SP34 Booms assembly

Item	Description	french	german	spanish	Part Number
1	Boom 2				P10422
2	Pivot pin				P10571
3	Plastic washer				P10035
4	Bush DU2550				P10031
5	Pivot pin				P10024
6	Pivot pin				P11491
7	Pivot pin				P10023
8	Boom 1 - Narrow model				P10886
9	Boom 1 - Wide model				P10420
10	Bush (Bearing) DU2520				P10032
11	Levelling rod				P10876
12	Boom rest - rubber				P11010
13	Bush (Bearing)				P10489
14	Nylatron stud				P11436
15	Nut				P13252
16	Wear pad				P10519
17	Bush (Bearing) DU2525				P10034
18	Pivot pin				P10210
19	Clamp				P10566
20	Pivot pin				P11491
21	Trunking bracket - Boom 4				P10555
22	Boom 4				P10519
23	Boom 3				P10421
24	Trunking				P10565
25	Tracking end piece - Bottom bracket				P15815
26	Tracking				P15408
27	Tracking link				P15814

french
german
spanish

boom assemblies



french
german
spanish

boom assemblies

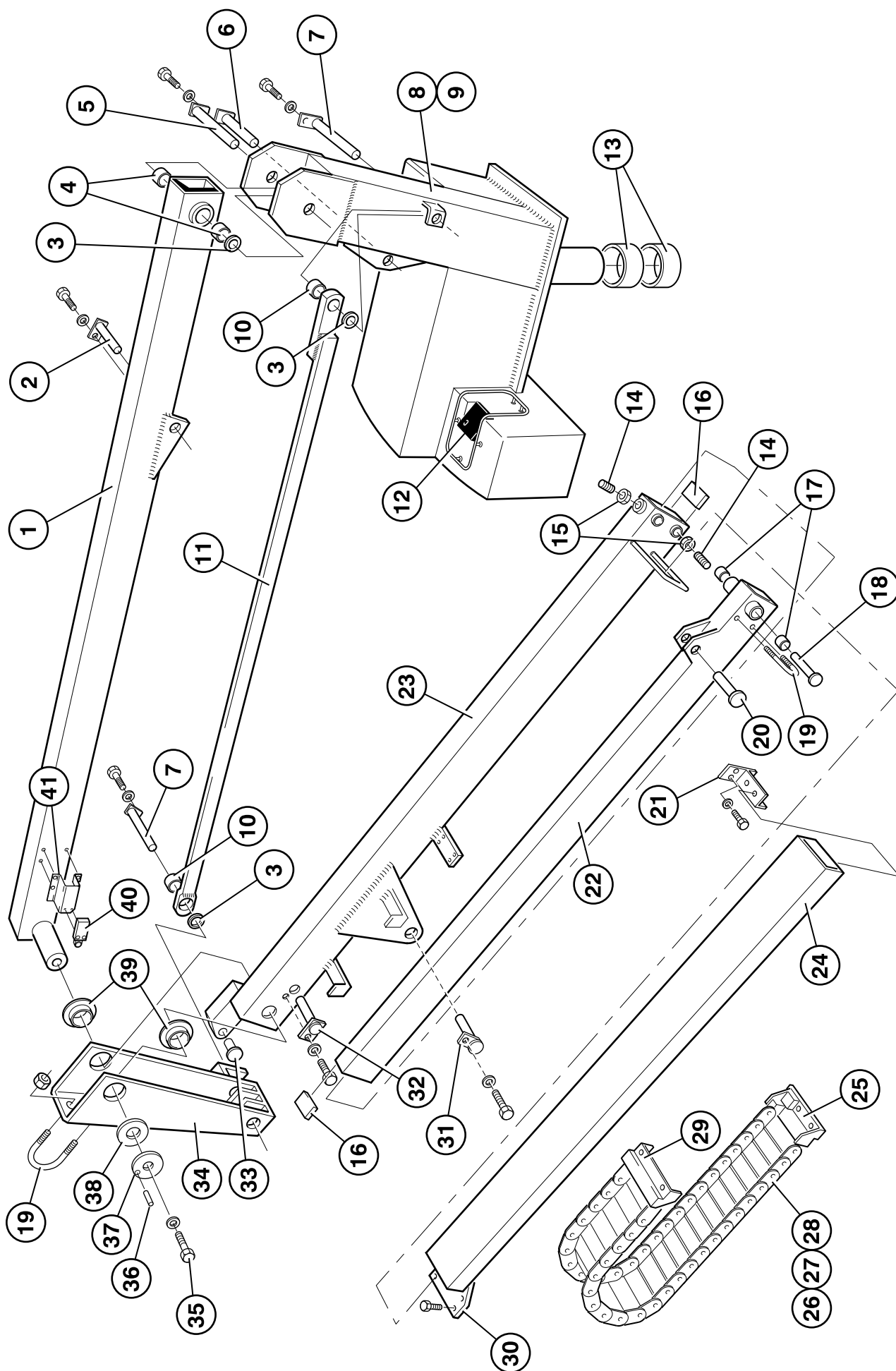
3-5

3.2 continued

Item	Description	french	german	spanish	Part Number
28	Tracking bridge				P15813
29	Tracking end piece - Top bracket				P15816
30	Tracking bracket (Trunking)				P10688
31	Pivot pin				P10026
32	Pivot pin				P10573
33	Pivot pin				P10574
34	Knuckle				P10424
35	Bolt for item 37				P70266
36	Roll pin for item 37				P70267
37	End cap				P10037
38	Nylatron washer				P12733
39	Flanged bush				P12719
40	Micro switch				P10069
41	Bracket				P15306

french
german
spanish

boom assemblies



french
german
spanish

boom assemblies

3-7

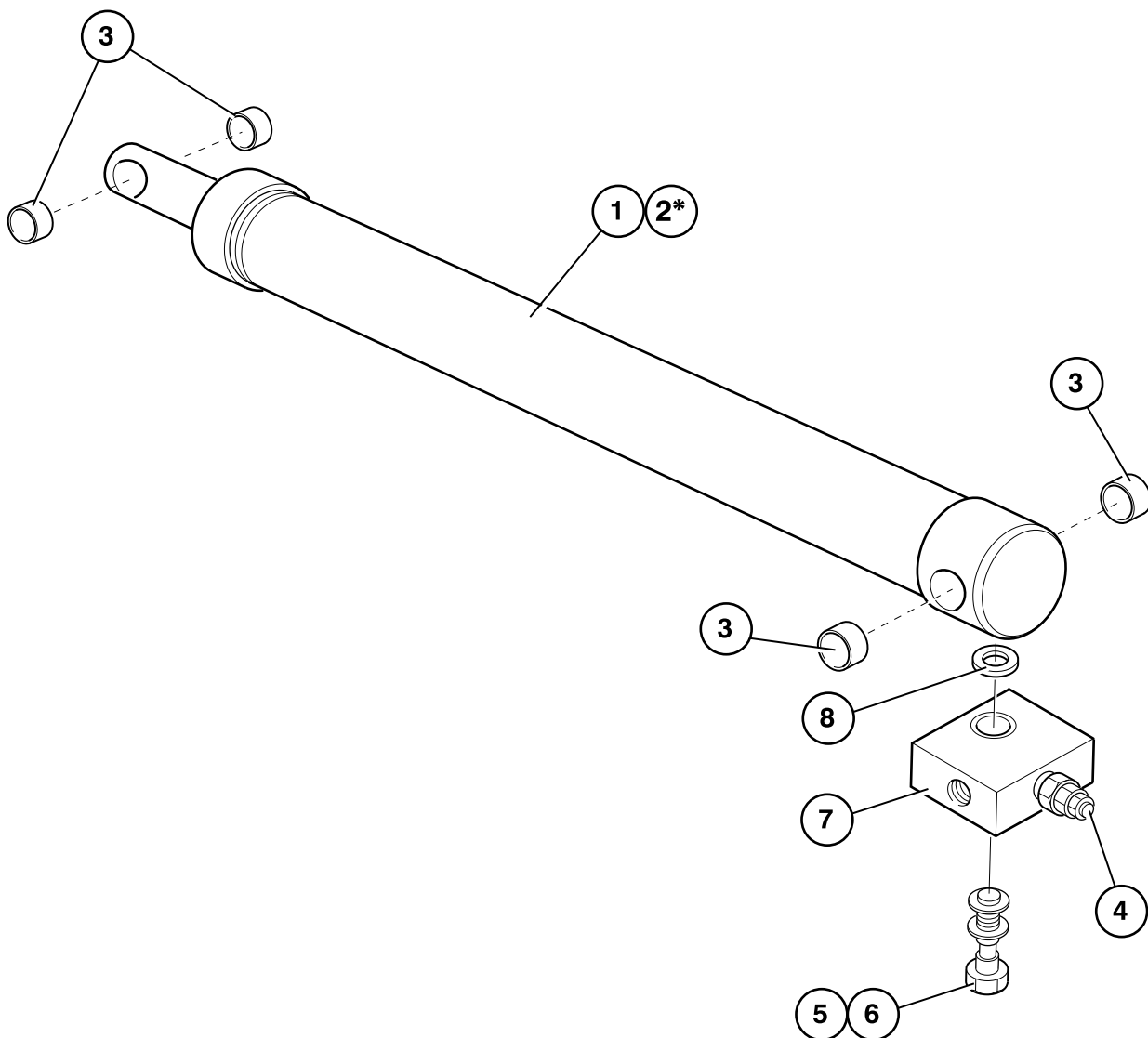
3.3 HR10/SP26 Lift cylinder

Item	Description	french	german	spanish	Part Number
1	Cylinder				P10083
2 *	Seal kit for item 1				P70121
3	Bush DU2520				P10032
4	Load valve ONLY				P11956
5	Banjo bolt for Boom1/Boom 2 cylinder				P10024
6	Banjo bolt for Boom2/Boom 3 cylinder				P11491
7	Check valve assy				P10023
8	Dowty washer				P10886

* Not illustrated

french
german
spanish

boom assemblies



french
german
spanish

boom assemblies

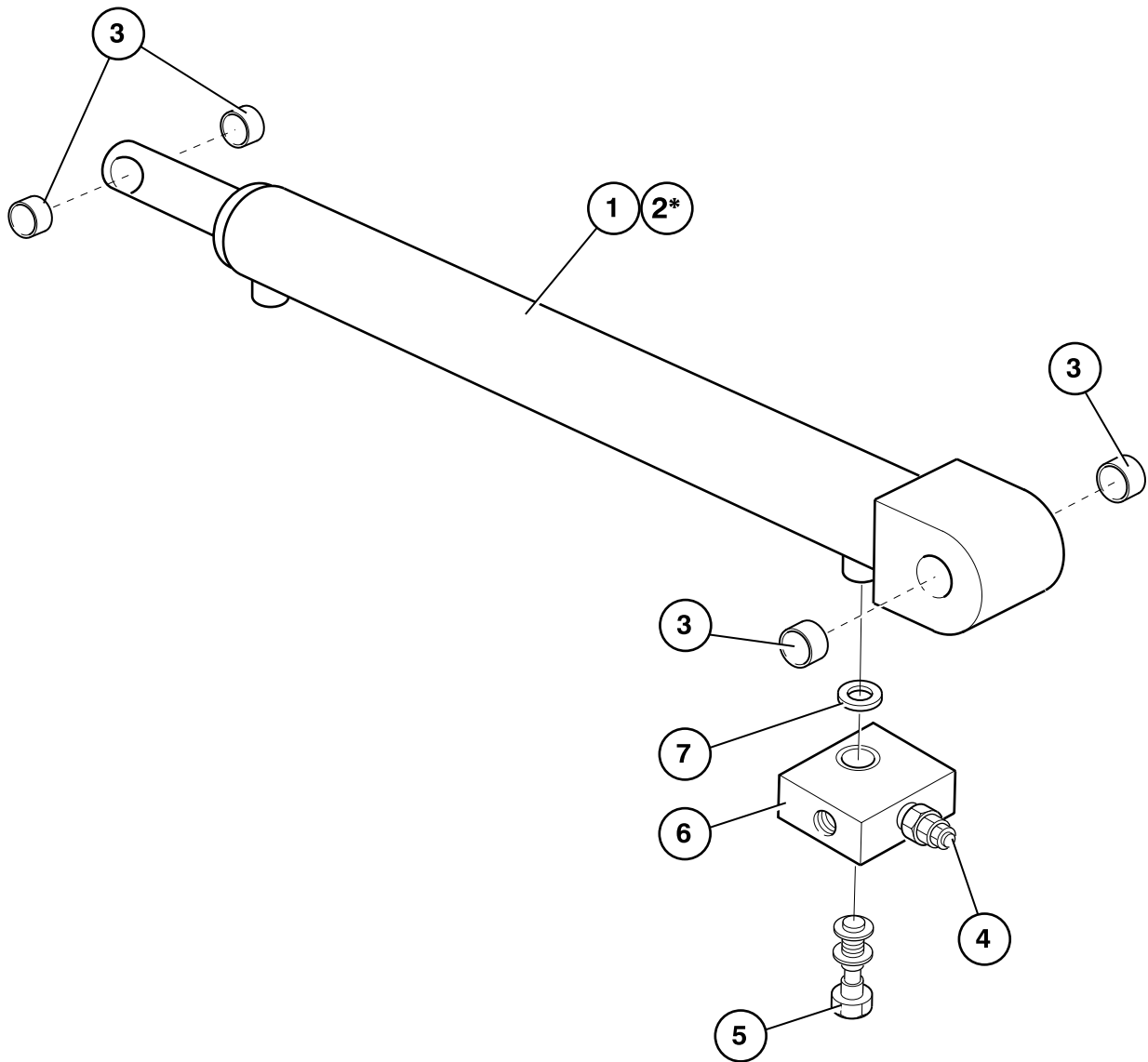
3.4 HR12/SP34 Lift cylinder

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

* Not illustrated

french
german
spanish

boom assemblies



french
german
spanish

boom assemblies

3.5 Levelling cylinder

Item Description Part Number

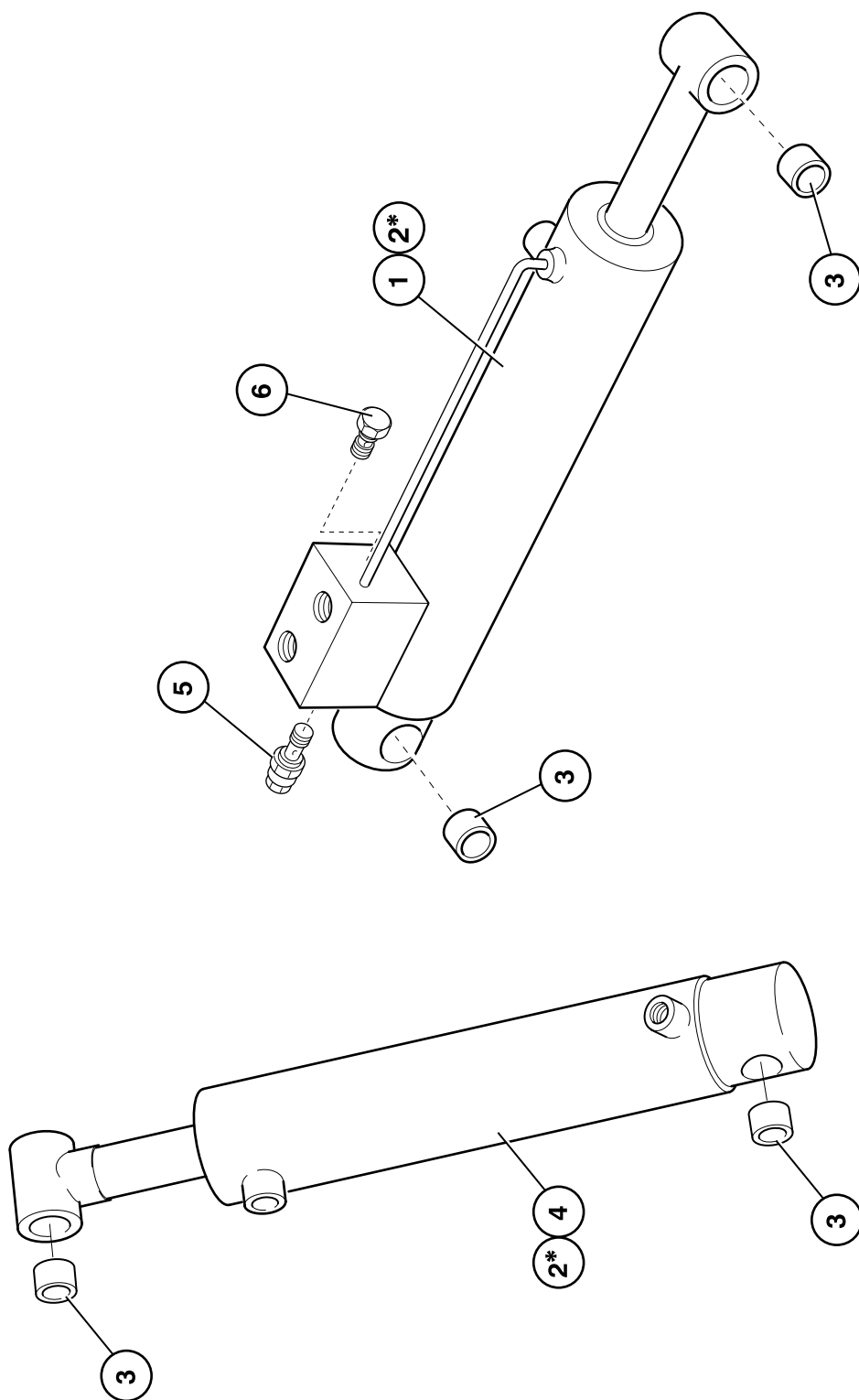
1	Cylinder (slave)				P12716
2 *	Seal kit for items 1 and 4				P11082
3	Bush DU2520				P10032
4	Cylinder				P11764
5	Load valve				P11956
6	Check valve cartridge				P12860

* Not illustrated

french
german
spanish

boom assemblies

3-12



french
german
spanish

boom assemblies

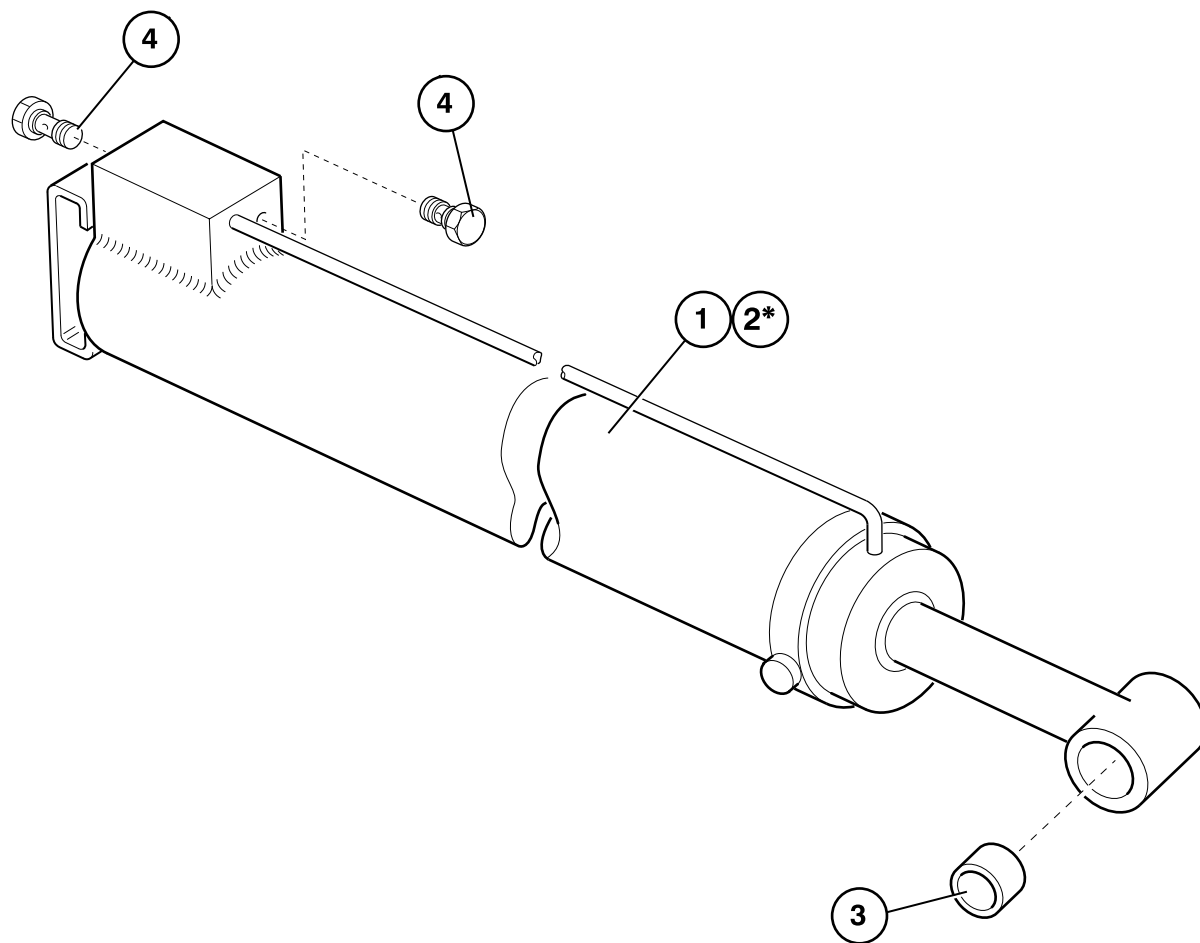
3.6 Telescope cylinder

Item	Description	french	german	spanish	Part Number
1	Cylinder				P10516
2 *	Seal kit for item1				P11756
3	Bush DU2520				P10032
4	Check valve cartridge				P12810

* Not illustrated

french
german
spanish

boom assemblies



french
german
spanish

boom assemblies

3-15



nifty

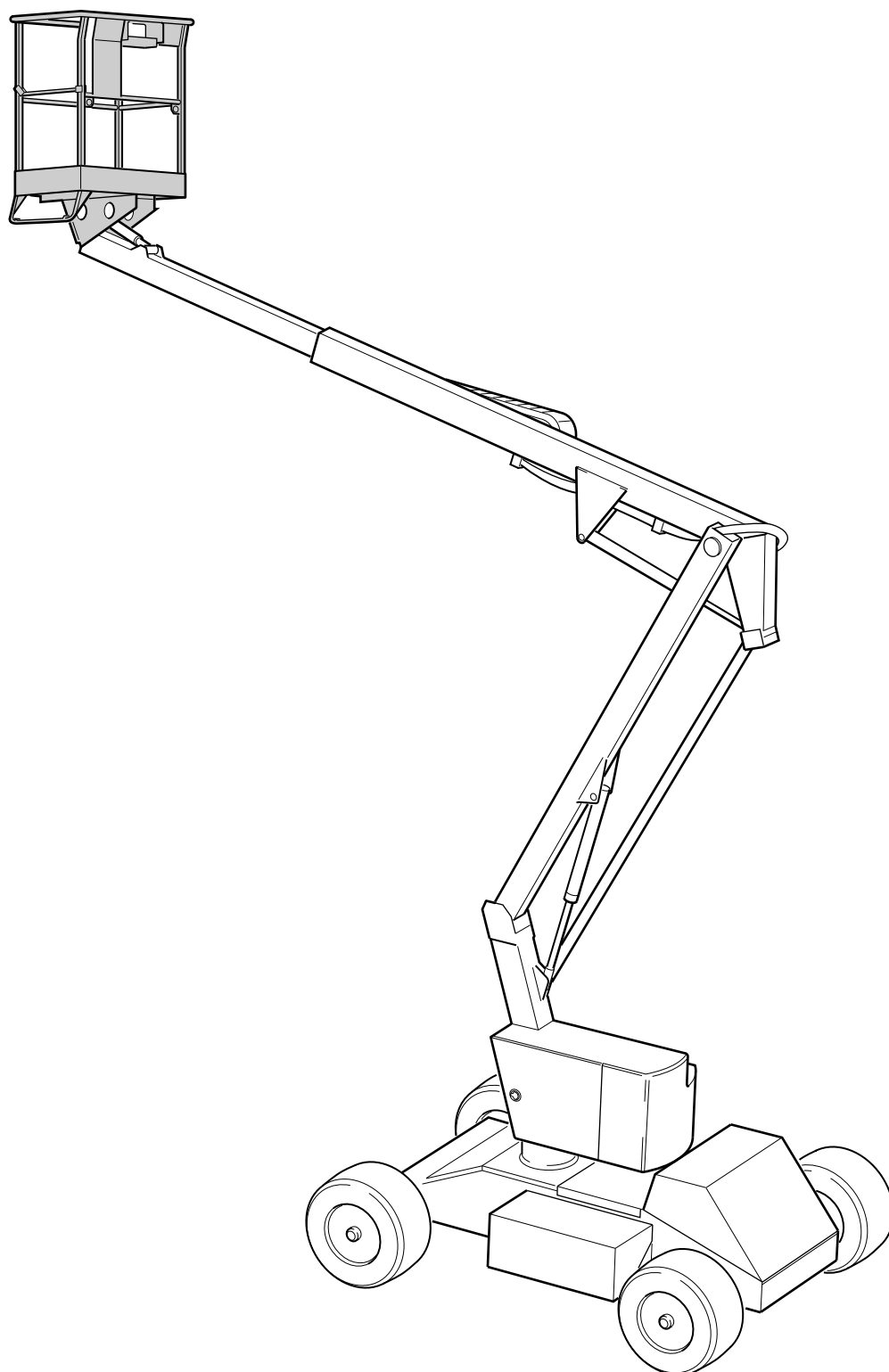
HR10/12 (SP26/34)

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4



cage assembly
french
german
spanish

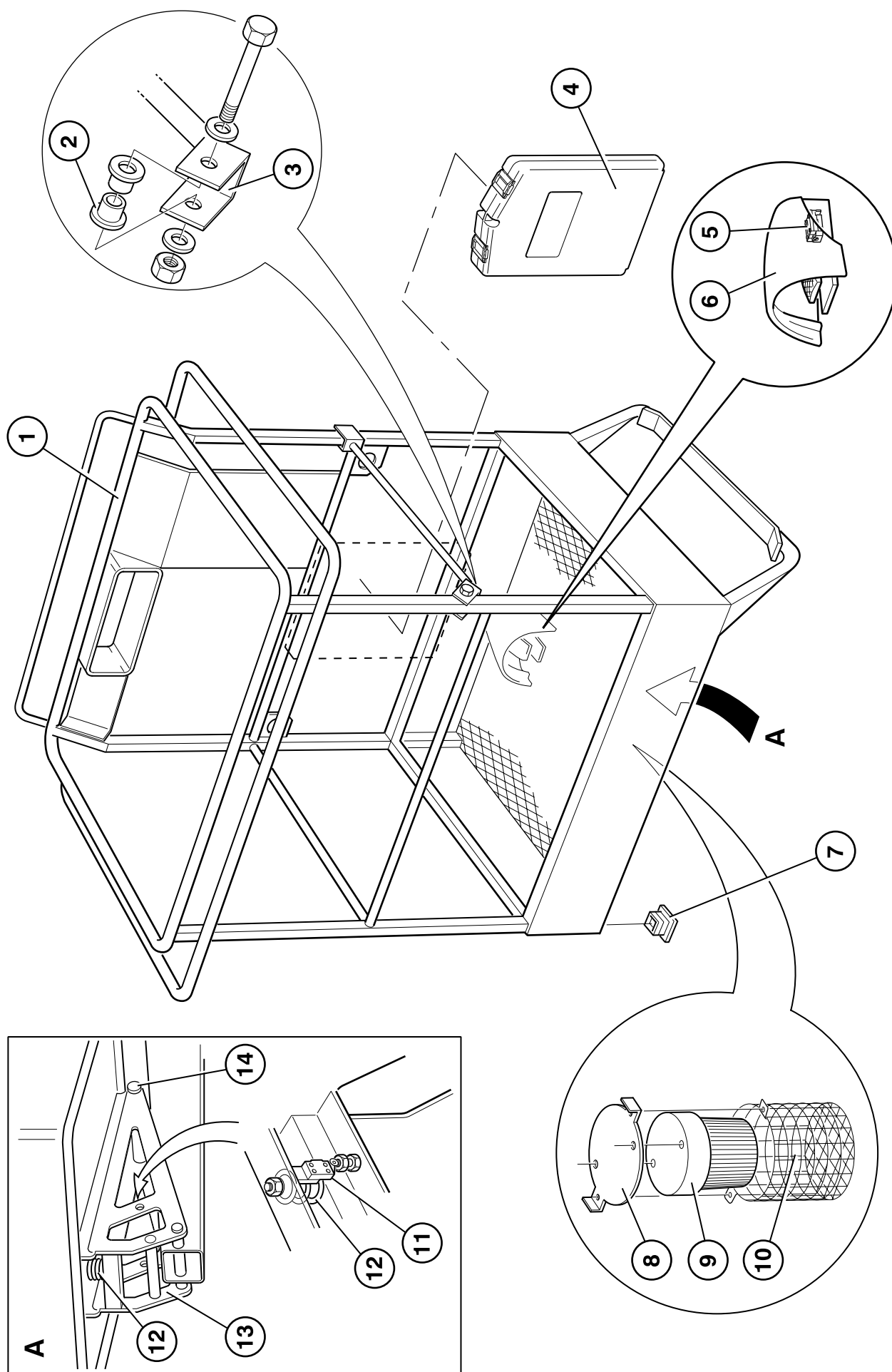
4.1 Cage assembly

Item	Description	french	german	spanish	Part Number
1	Cage - HR10 (Standard/UK) HR10 (French) SP26 (USA) HR12 (Standard/UK) HR12 (French) SP34 (USA)				P10835 P10974 P11615 P10843 P11450 P11508
2	Bush				P10840
3	Cage gate				P11610
4	Instruction manual box (OPTIONAL)				P11618
5	Electrical contact				P15209
6	Footswitch (OPTIONAL)				P10759
7	Cap				P10842
8	Bracket - Beacon (OPTIONAL)				P11451
9	Beacon (OPTIONAL)				P10274
10	Guard - Beacon (OPTIONAL)				P10312
11 *	Micro switch				P10069
12 *	Spring				P10391
13 *	Bracket - Cage mounting				P13920
14 *	Pivot pin				P10203

* Applicable to machines with cage overload system only

french
german
spanish

cage assembly



french
german
spanish

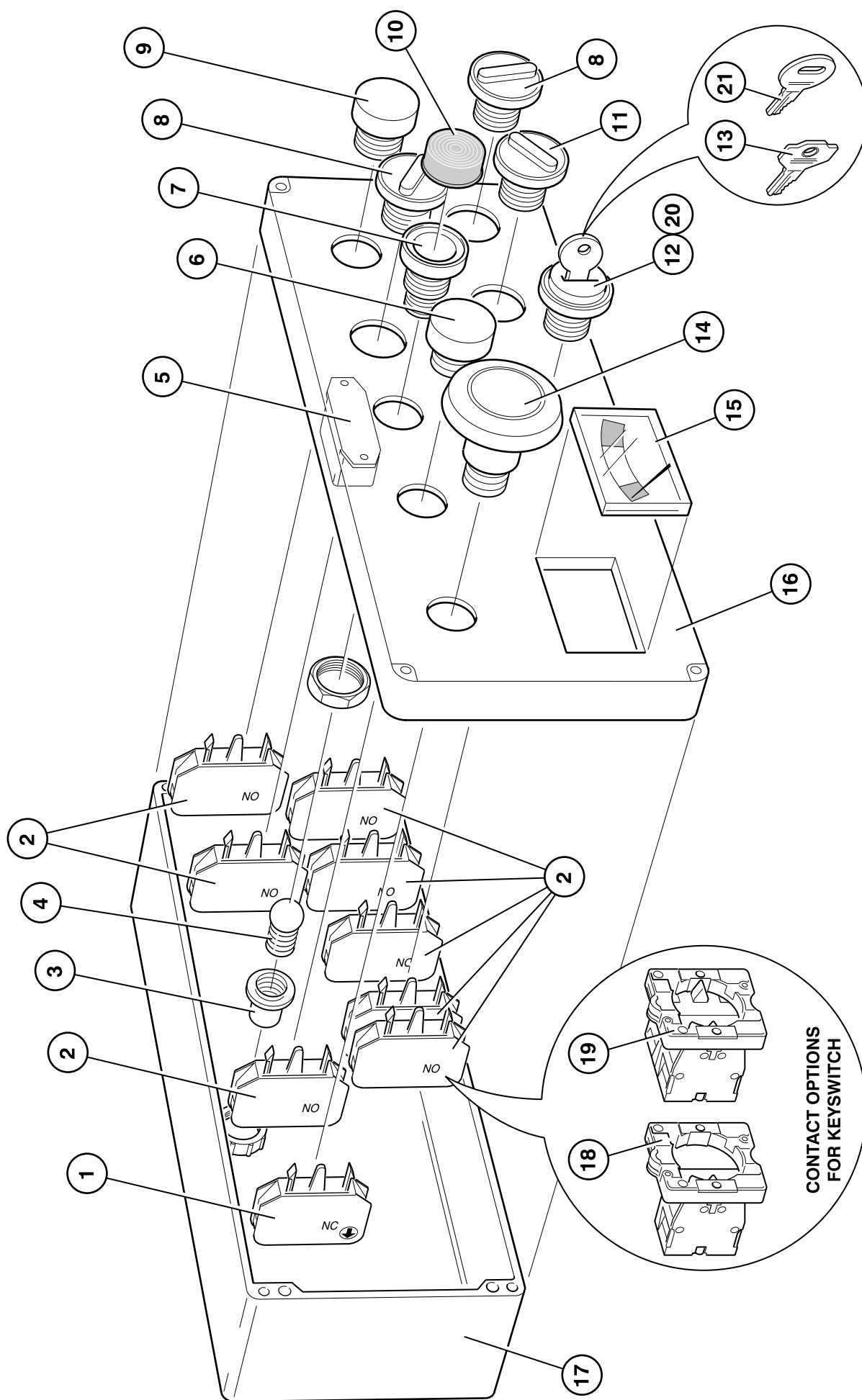
cage assembly

4.2 Cage control box

Item	Description	french	german	spanish	Part Number
	Complete assy. Diesel/electric Electric				P11946 P11947
1	Contact - NC Normally closed				P14487
2	Contact - NO Normally open				P14486
3	Bulb holder				P11790
4	Bulb				P11791
5	Buzzer				P10341
6	Blue button				P15142
7	Lamp Housing				P14276
8	Selector switch				P15152
9	Green button				P15150
10	Lens				P11295
11	Selector switch- (Diesel/Bi-energy ONLY)				P15151
	Blanking Plate- (DC ONLY)				P15143
12	Key switch - 420 key (3 position)				P15132
13	Spare key				P15335
14	Emergency stop button				P15134
15	Battery meter				P11494
16	Decal				P12832
17	Box ONLY				P11831
18	Contact - Single NO				P11838
19	Contact - Double NO				P11840
20	Key switch - 455 key (3 position)				P10081
21	Spare key				P70187

french
german
spanish

cage assembly


french
german
spanish

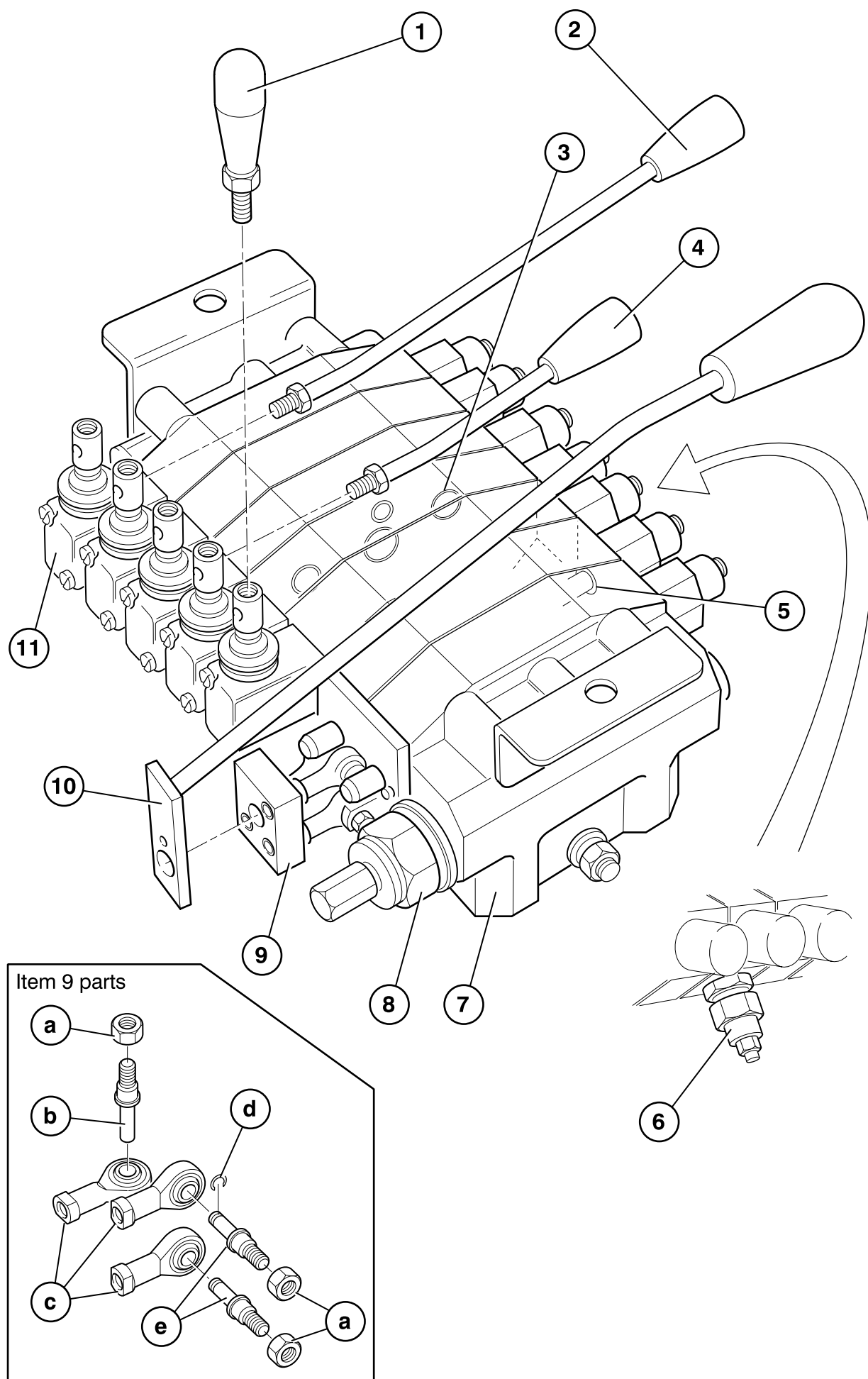
cage assembly

4.3 Cage control valve

Item	Description	french	german	spanish	Part Number
1	Lever - levelling				P70347
2	Lever - 200mm				P70366
3	Interface seal kit				P10706
4	Lever - 150mm				P70346
5	Seal kit				P10707
6	Pressure relief valve Telescope spool Levelling spool				P10879 P15840
7	Control valve assy - HR10/SP26 HR12/SP34				P15516 P15522
8	Pressure relief valve				P70335
9	Manipulator assy. (complete) a) Nut b) Vertical pin c) Universal joint d) Circlip e) Horizontal pin				P10708 P12748 P12749 P12750 P12751 P12747
10	Joystick				P10310
11	Lever cap				P70338

french
german
spanish

cage assembly


 french
german
spanish

cage assembly



nifty

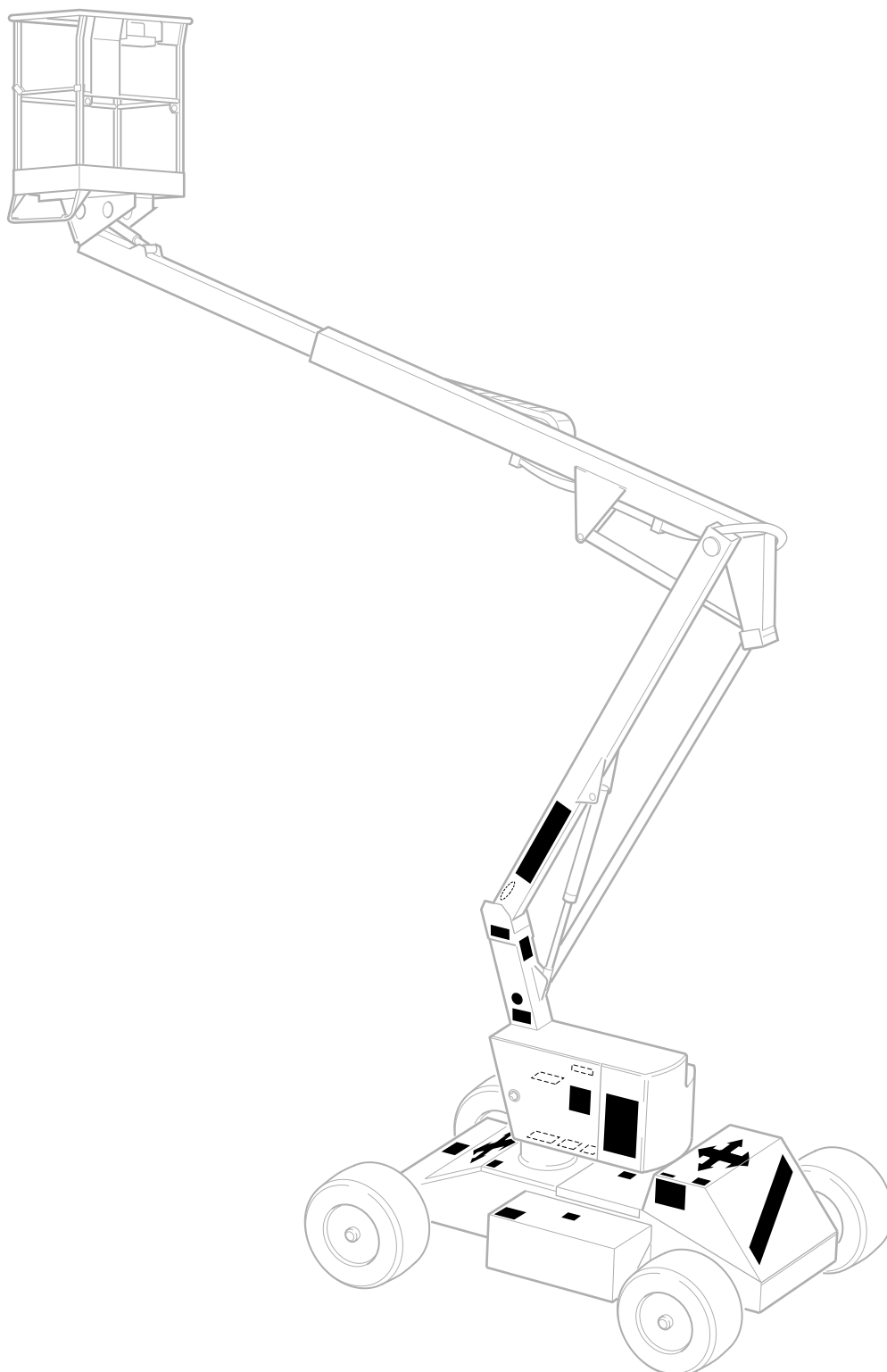
HR10/12 (SP26/34)

illustrated parts manual

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Illustrierte Stückliste

Manual de piezas ilustrado



5



**labelling
french
german
spanish**

5.1 Label locations HR10/12

Item	Description	Part Number
fr	fr	fr
g	g	g
sp	sp	sp

1	Harness point	P14883
	french	P14883
	german	P14883
	spanish	P14883

2	Cage control box	P11828
	french	P11829
	german	P11830
	spanish	P13398

3	Cage instructions	P11084
	french	P11107
	german	P13369
	spanish	P13878

4	Battery management	P11777
	french	P11811
	german	P11809
	spanish	P13432

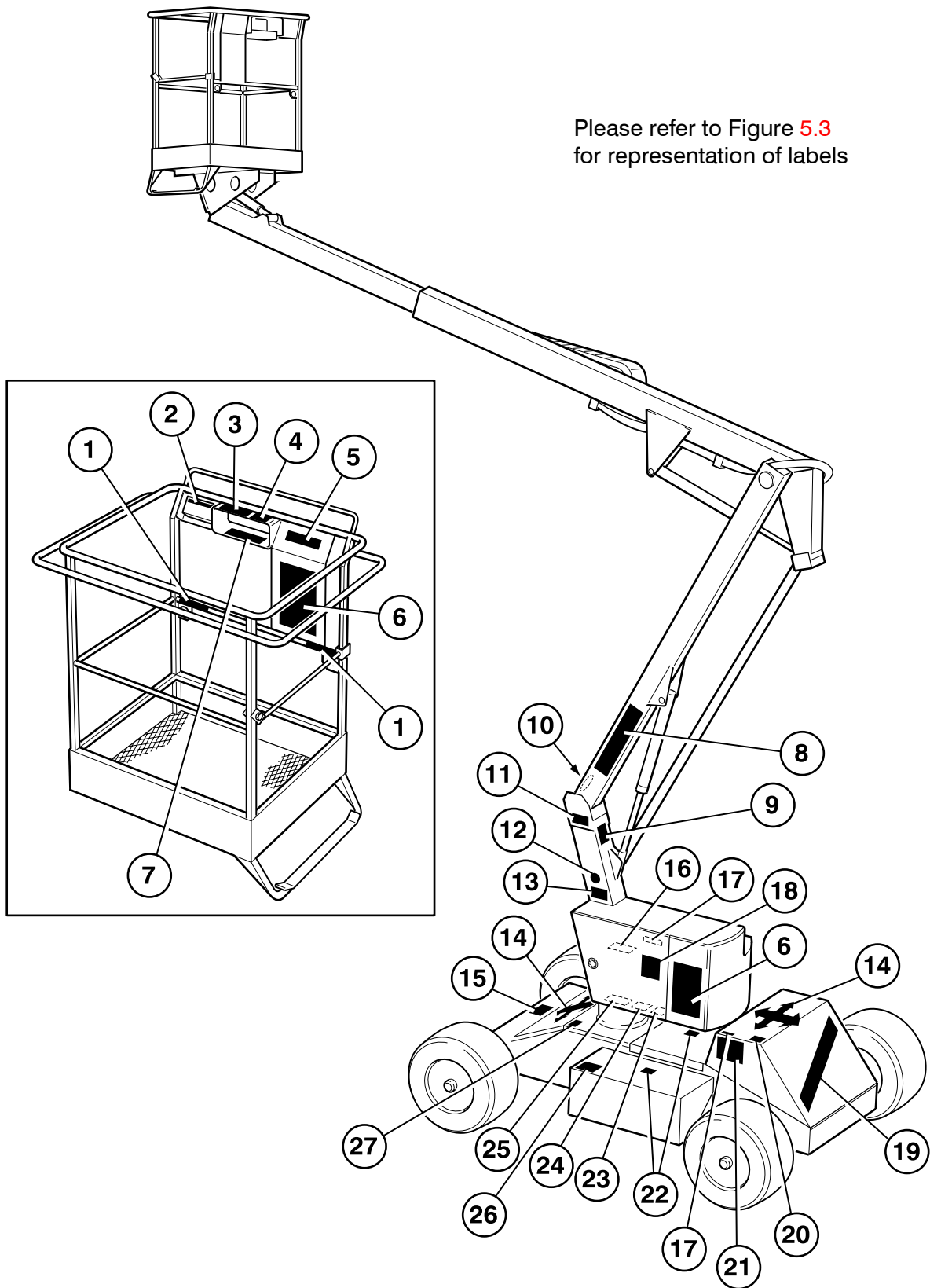
5	Tilt alarm	P14868
	french	P14869
	german	P14870
	spanish	P14871

6	General warning	P14421
	french	P14422
	german	P14423
	spanish	P14424

7	Cage controls - HR10 HR12	P14938 P14939
	french	P14938 P14939
	german	P14938 P14939
	spanish	P14938 P14939

french
german
spanish

labelling



french
german
spanish

labelling

5.1 continued

Item	Description	Part Number
fr	fr	fr
g	g	g
sp	sp	sp

8	Warning - SWL 200kg	P14801
	french	P14801
	german	P14801
	spanish	P14801

9	Machine plate	P10805
	french	P10805
	german	P10805
	spanish	P10805

10	Head protection	P14921
	french	P14921
	german	P14921
	spanish	P14921

11	Component stability	P15553
	french	P15562
	german	P15563
	spanish	P15564

12	CE mark	P12253
	french	P12253
	german	P12253
	spanish	P12253

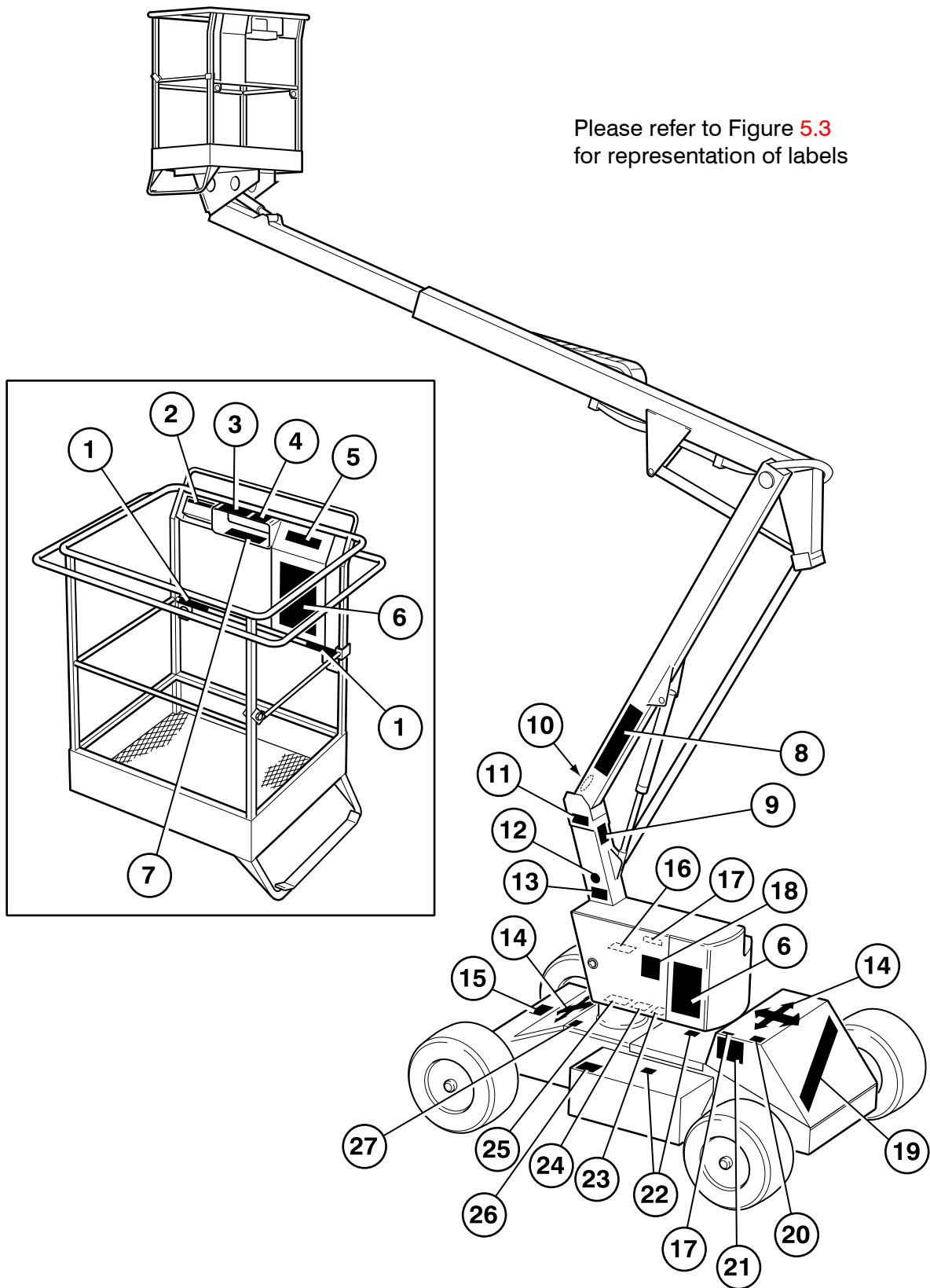
13	Union jack flag	P10780
	french	P10780
	german	P10780
	spanish	P10780

14	Travel direction	P14784
	french	P14784
	german	P14784
	spanish	P14784

15	Wheel release	P15550
	french	P15570
	german	P15571
	spanish	P15572

french
german
spanish

labelling



french
german
spanish

labelling

5.1 continued

Item	Description	Part Number
fr	fr	fr
g	g	g
sp	sp	sp

16	Base controls - HR10 HR12	P14936 P14937
	french	P14936 P14937
	german	P14936 P14937
	spanish	P14936 P14937

17	Trip switch	P10875
	french	P12997
	german	P12998
	spanish	P13424

18	Battery charging	P14904
	french	P14905
	german	P14906
	spanish	P14907

19	Heightrider logo - HR10 HR12	P14160 P14163
	french	P14160 P14163
	german	P14160 P14163
	spanish	P14160 P14163

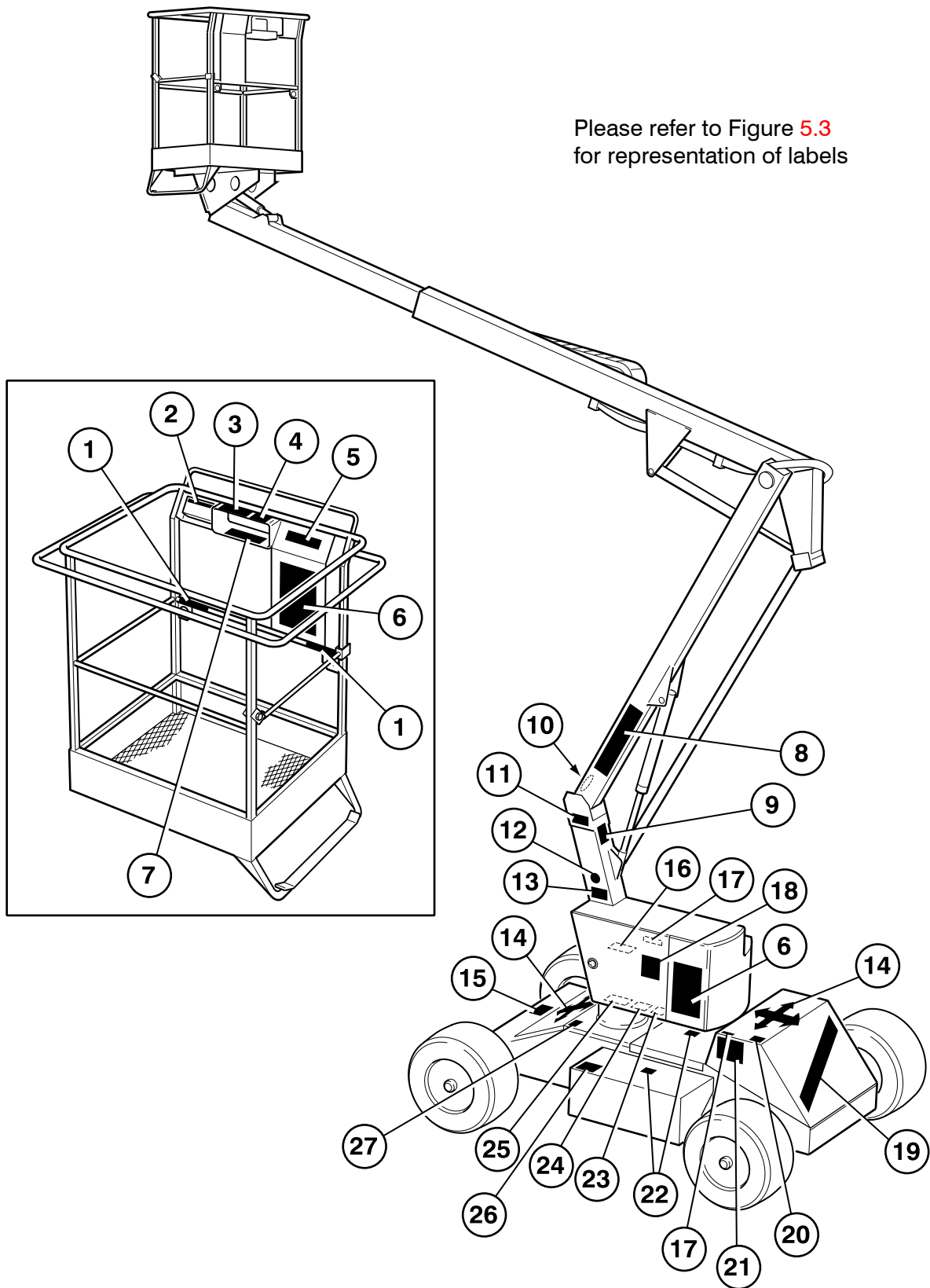
20	Diesel fuel	P14414
	french	P14414
	german	P14414
	spanish	P14414

21	Fuelling danger	P14900
	french	P14901
	german	P14902
	spanish	P14903

22	No step	P14785
	french	P14785
	german	P14785
	spanish	P14785

french
german
spanish

labelling



french
german
spanish

labelling

5-7

5.1 continued

Item	Description	Part Number
fr	fr	fr
g	g	g
sp	sp	sp

23	Base key switch	P15221
	french	P15221
	german	P15221
	spanish	P15221

24	Function selector valve	P14060
	french	P14060
	german	P14060
	spanish	P14060

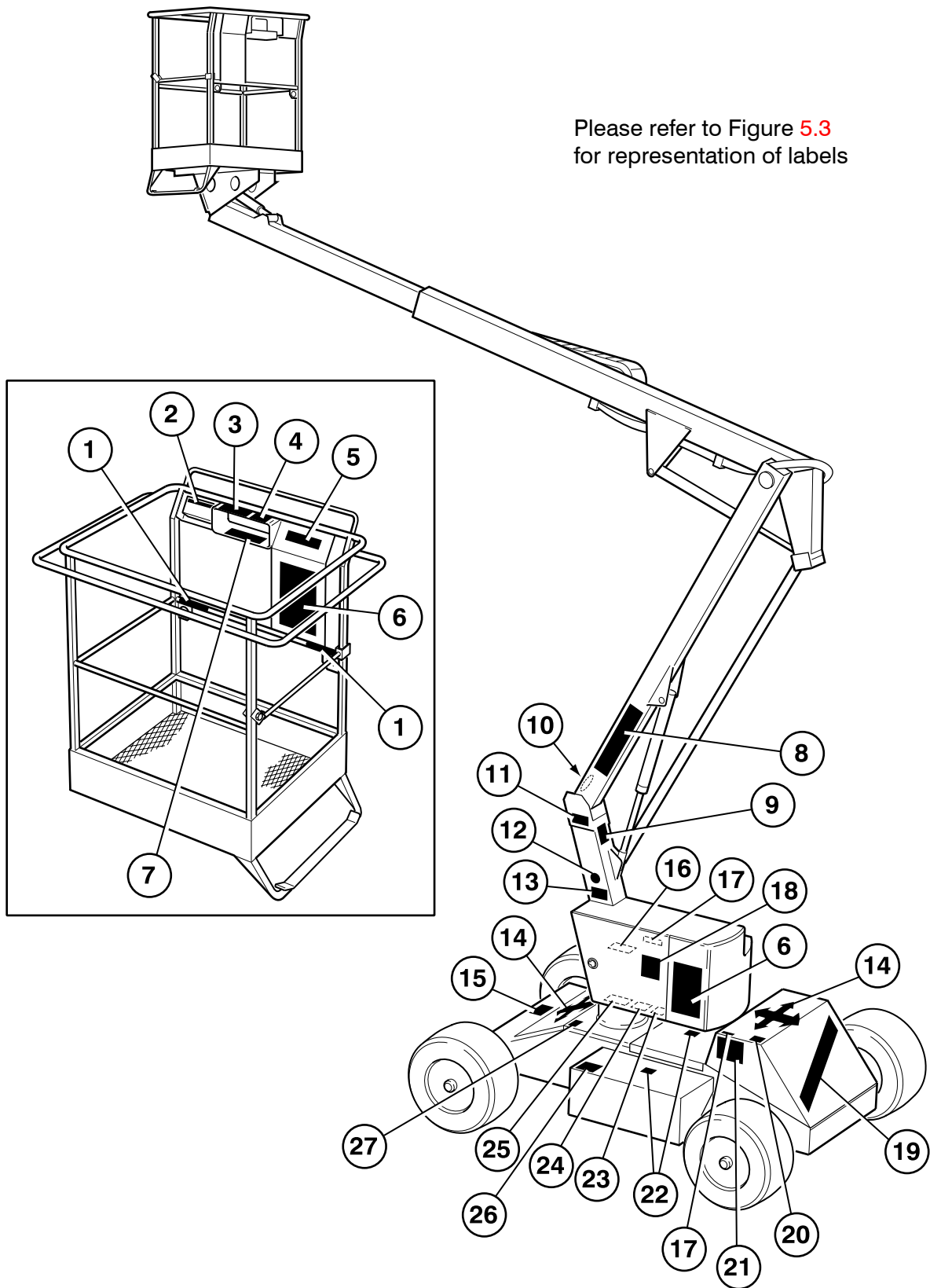
25	Handpump	P14807
	french	P14808
	german	P14809
	spanish	P14810

26	Battery dangers	P14872
	french	P14873
	german	P14874
	spanish	P14875

27	Battery isolator	P14021
	french	P14237
	german	P14332
	spanish	P14982

french
german
spanish

labelling



french
german
spanish

labelling

5-9

5.2 Label locations SP26/34 (USA)

Item	Description	Part Number
fr	fr	fr
g	g	g
sp	sp	sp

1	Harness point	P14883
	french	P14883
	german	P14883
	spanish	P14883

2	Cage control box	P11828
	french	P11829
	german	P11830
	spanish	P13398

4	Battery management	P11777
	french	P11811
	german	P11809
	spanish	P13432

5	Tilt alarm	P14868
	french	P14869
	german	P14870
	spanish	P14871

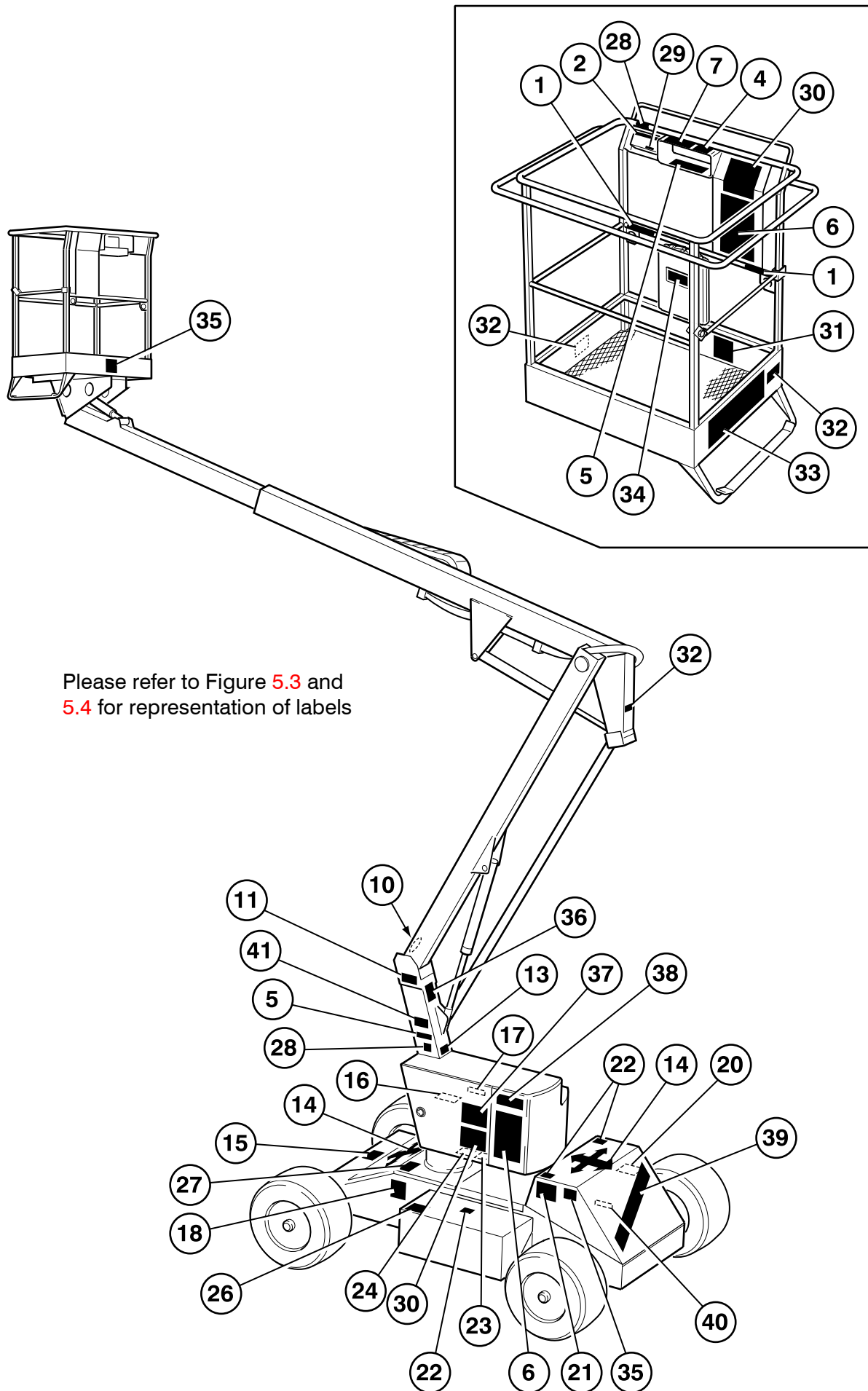
6	General warning	P14421
	french	P14422
	german	P14423
	spanish	P14424

7	Cage controls - SP26 SP34	P14938 P14939
	french	P14938 P14939
	german	P14938 P14939
	spanish	P14938 P14939

10	Head protection	P14921
	french	P14921
	german	P14921
	spanish	P14921

french
german
spanish

labelling



Please refer to Figure 5.3 and 5.4 for representation of labels

french
german
spanish

labelling

5.2 continued

Item	Description	Part Number
fr	fr	fr
g	g	g
sp	sp	sp

11	Component stability	P15553
	french	P15562
	german	P15563
	spanish	P15564

13	Union jack flag	P10780
	french	P10780
	german	P10780
	spanish	P10780

14	Travel direction	P14784
	french	P14784
	german	P14784
	spanish	P14784

15	Wheel release	P15550
	french	P15570
	german	P15571
	spanish	P15572

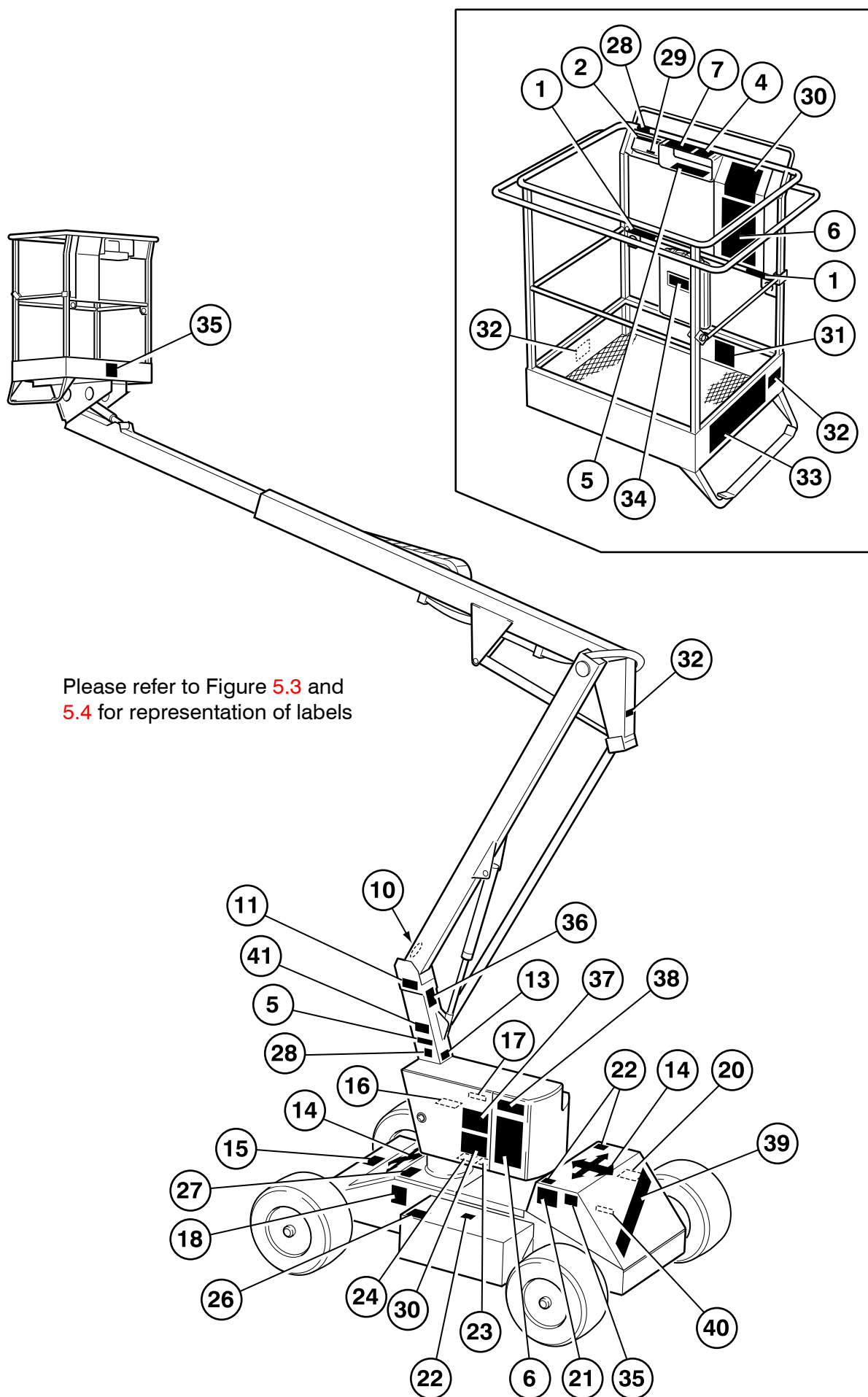
16	Base controls - SP26 SP34	P14936
		P14937
	french	P14936
		P14937
	german	P14936
		P14937
	spanish	P14936
		P14937

17	Trip switch	P10875
	french	P12997
	german	P12998
	spanish	P13424

18	Battery charging	P14904
	french	P14905
	german	P14906
	spanish	P14907

french
german
spanish

labelling



french
german
spanish

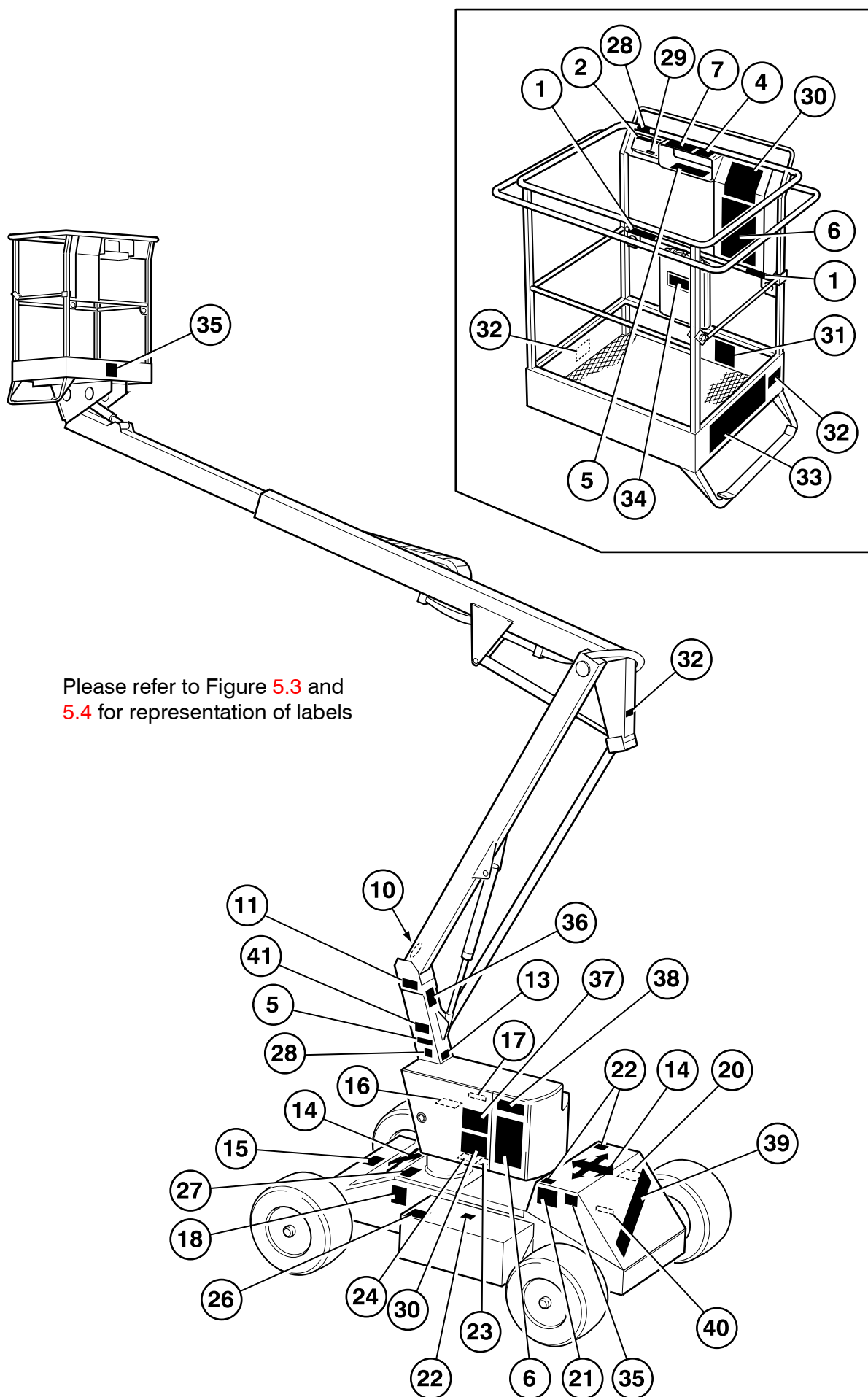
labelling

5.2 continued

Item	Description	Part Number
fr	fr	fr
g	g	g
sp	sp	sp
20	Diesel fuel	P14414
	french	P14414
	german	P14414
	spanish	P14414
21	Fuelling danger	P14900
	french	P14901
	german	P14902
	spanish	P14903
22	No step	P14785
	french	P14785
	german	P14785
	spanish	P14785
23	Base key switch	P15221
	french	P15221
	german	P15221
	spanish	P15221
24	Function selector valve	P14060
	french	P14060
	german	P14060
	spanish	P14060
26	Battery dangers	P14872
	french	P14873
	german	P14874
	spanish	P14875
27	Battery isolator	P14021
	french	P14237
	german	P14332
	spanish	P14982
28	Emergency stop	P14864
	french	P14865
	german	P14866
	spanish	P14867

french
german
spanish

labelling



french
german
spanish

labelling

5.2 continued

Item	Description	Part Number
fr	fr	fr
g	g	g
sp	sp	sp

29	Engine start	P11445
	french	P13000
	german	-
	spanish	-

30	Daily safety check list	P14908
	french	P14909
	german	P14910
	spanish	P14911

31	Footswitch	P14884
	french	P14885
	german	P14886
	spanish	P14887

32	Crush hazard - verbal	P14783
	french	P14783
	german	P14783
	spanish	P14783

33	Platform capacity	P11589
	french	P14781
	german	P14781
	spanish	P14781

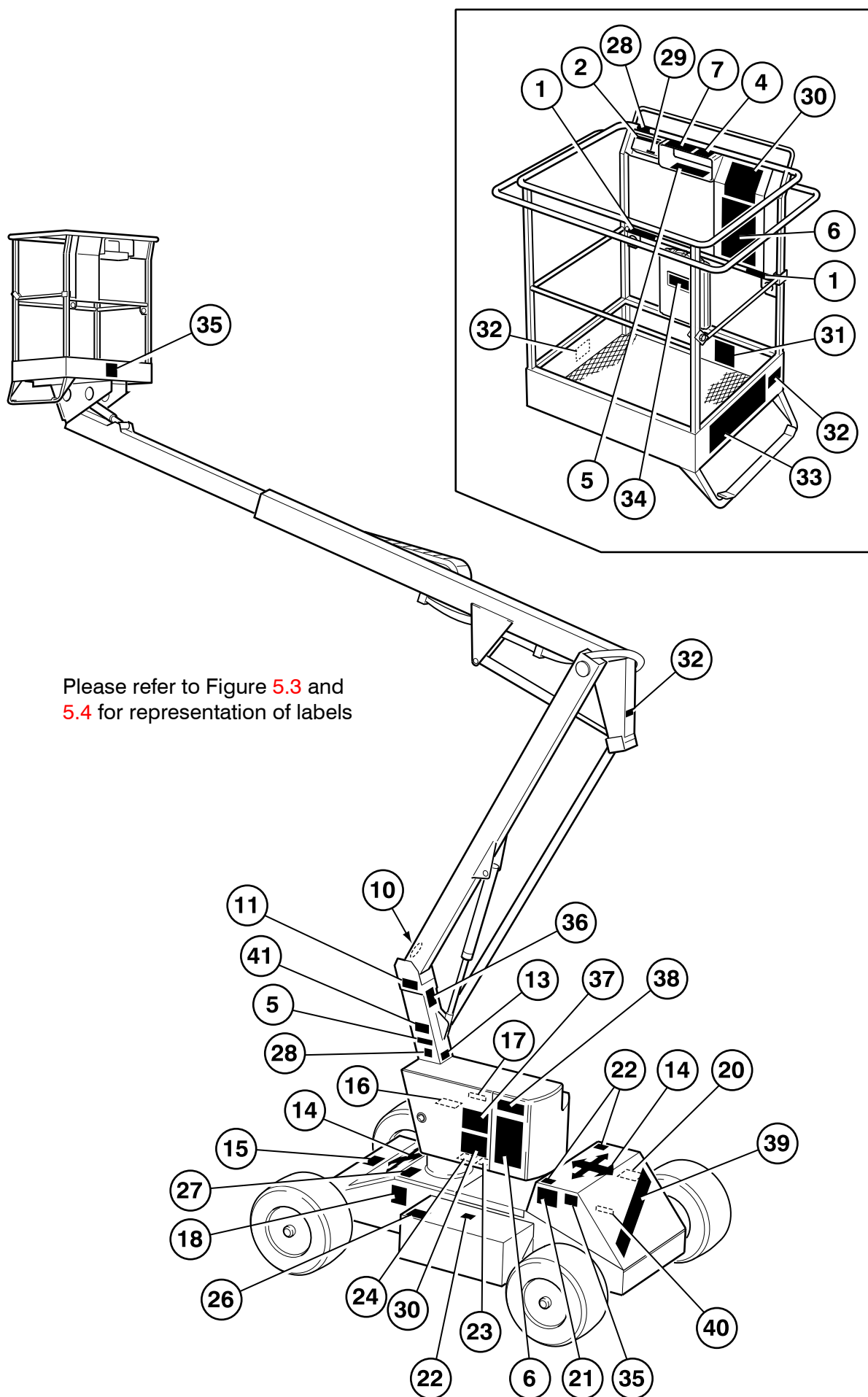
34	Operating instructions	P14892
	french	P14893
	german	P14894
	spanish	P14895

35	Crush hazard - pictorial	P14782
	french	P14782
	german	P14782
	spanish	P14782

36	Identification plate	P11497
	french	P11497
	german	P11497
	spanish	P11497

french
german
spanish

labelling



french
german
spanish

labelling

5.2 continued

Item	Description	Part Number
fr	fr	fr
g	g	g
sp	sp	sp

37	Ground controls	P14888
	french	P14889
	german	P14890
	spanish	P14891

38	Rotating machinery	P15010
	french	-
	german	-
	spanish	-

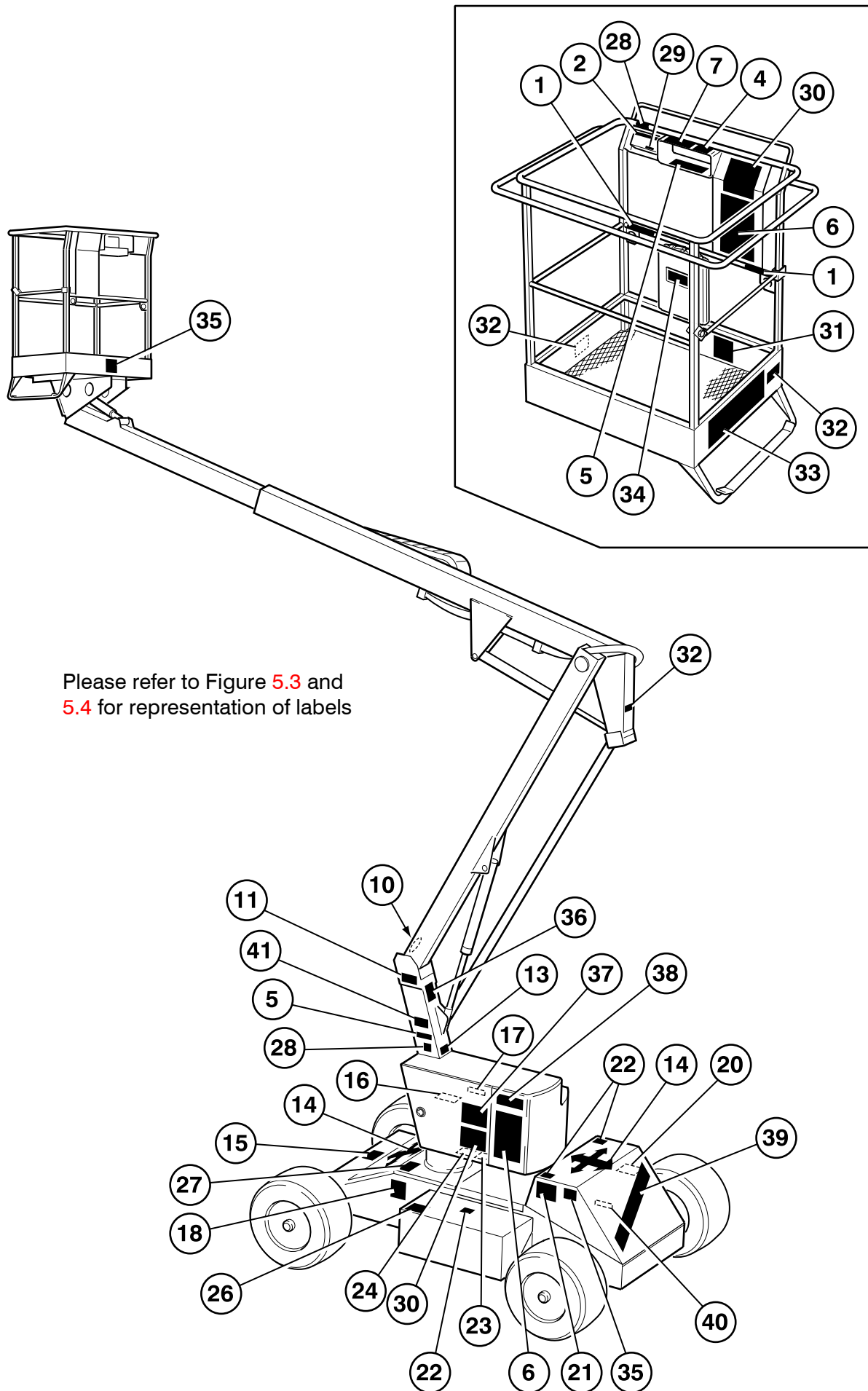
39	Logo - SP26 SP34	P11597 P11598
	french	P11597 P11598
	german	P11597 P11598
	spanish	P11597 P11598

40	CARB Regulations	P15334
	french	-
	german	-
	spanish	-

41	Foam filled tyres	P14932
	french	P14933
	german	P14934
	spanish	P14935

french
german
spanish

labelling



Please refer to Figure 5.3 and 5.4 for representation of labels

french
german
spanish

labelling

1 

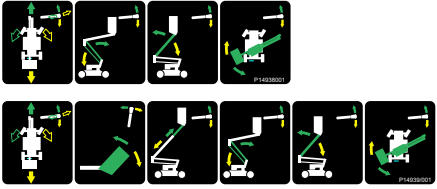
2 

3 **GREEN BUTTON - PUSH FOR DRIVE & BOOMS SELECTOR - HIGH/LOW DRIVE. NO HIGH SPEED WHEN BOOMS RAISED. DO NOT DRIVE MACHINE WITH BOOMS ELEVATED UNLESS ON FIRM LEVEL GROUND. IF TILT SENSOR ACTIVATES, HORN BECOMES CONTINUOUS AND BRAKES APPLY AUTOMATICALLY.**

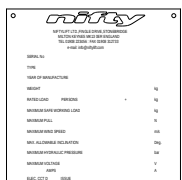
4 **NOTICE**
BATTERY MANAGEMENT SYSTEM (BMS) OPERATION
As batteries approach full discharge, the machine will start to ignore the point for intermittent stopping and starting of the DC motors. Machine movement becomes erratic, and the alarm will sound as the motor stops and starts. These functions serve to warn the operator that immediate charging is required. Continued operation will cause over discharge of the batteries, and may damage the motor controllers, motors or the batteries themselves.

5 **DANGER**
If tilt alarm sounds descend immediately and re-level machine base.

6 **DANGER**
READ THIS BEFORE OPERATING THIS MACHINE
THIS NOTICE DOES NOT REPLACE THE OPERATING MANUAL WHICH SHOULD BE READ BEFORE OPERATING THIS MACHINE FOR THE FIRST TIME.
YOU MUST NOT OPERATE THIS MACHINE unless you have been trained in the safe operation of this machine. Training includes complete knowledge of the safety and operating instructions contained in the manufacturer's manuals, your employer's rules and applicable governmental regulations. Inspect the machine before use to be sure it is operating properly and perform the safety checks listed in the operating manual and on the label under the canopy. This machine must be inspected / serviced as the operating manual requires.
ELECTROCUTION HAZARD THIS MACHINE IS NOT INSULATED
• Maintain a safe distance from contact with or proximity to an electrically charged conductor. You must maintain clearance of at least 3m (10 ft) between any part of the machine or its load and any electrical line or apparatus carrying over 50,000 volts. 0.3m (1 ft) additional clearance is required for every additional 30,000 volts or less.
EXPLOSION HAZARD
• Do not start the Niftylift if you can smell gasoline, liquid propane or diesel fuel.
• The engine must be shut down while fuel tanks are being filled. Fueling and battery charging must be done in a well ventilated area free of any raised flame or other sources of ignition which may cause fire or explosion.
• Gasoline, liquid petroleum and diesel fuels are flammable.
HAZARDOUS SUBSTANCES AND ENVIRONMENTS
• This machine contains several hazardous substances such as but not limited to: Battery acid, Hydraulic Fluid, Engine Coolant, Antifreeze, LPO, Diesel Fuel, Petrol, Engine Oil, Grease, Gasoline.
• Covers and canopies should remain closed when the machine is in operation. Only trained personnel should carry out maintenance on the machine, ensuring at all times they protect themselves from electrical, heat and mechanical hazards.
DAMAGED OR MALFUNCTIONING MACHINE HAZARD
• Do not use a damaged or malfunctioning machine.
• If the machine malfunctions during operation or the tilt / counterbalance alarm sounds stop all work and descend as soon as possible in a smooth controlled manner.

7 

8 **WARNING**
200KG (440lbs) MAX
80KG (177lbs) 80KG (177lbs) 40KG (88lbs) 12.5 m/s (28mph) 400N (90lbs) MAX

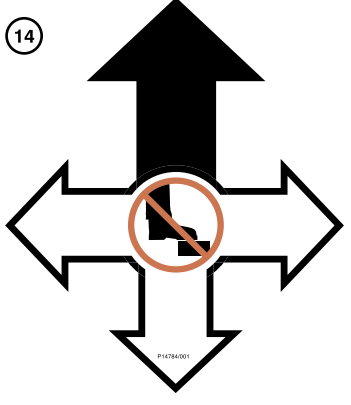
9 

10 

11 **WARNING**
Do not replace without manufacturers consent components critical to the aerial platform stability with lighter weight components such as but not limited to (minimum weights specified) engines; 84lbs (38kg), batteries; 77lbs (35kg) each, tyres; 106lbs (48kg) each. If in doubt contact Niftylift immediately.

12 

13 

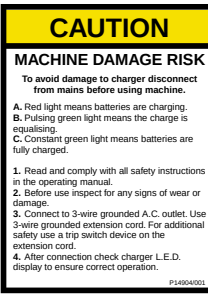
14 

15 **CAUTION**
DRIVE WHEEL LOCK RELEASE UNDER COVER
1. CHOCK WHEELS BEFORE RELEASING
2. TURN COUNTER-CLOCKWISE TO RELEASE
3. TIGHTEN CLOCKWISE TO RE-ENGAGE BEFORE REMOVING CHOCKS AND OPERATING WORK PLATFORM

16 

17 **TRIP - PUSH TO RESET**

18 **CAUTION**
MACHINE DAMAGE RISK
To avoid damage to charger disconnect from mains before using machine.
A. Red light means batteries are charging.
B. Pulsing green light means the charge is equalising.
C. Constant green light means batteries are fully charged.
1. Read and comply with all safety instructions in the operating manual.
2. Before use inspect for any signs of wear or damage.
3. Connect to 3-wire grounded A.C. outlet. Use 3-wire grounded extension cord. For additional safety use a trip switch device on the extension cord.
4. After connection check charger L.E.D. display to ensure correct operation.

19 

20 

21 **DANGER**
GASOLINE, LIQUID PETROLEUM AND DIESEL FUELS ARE FLAMMABLE
1. The engine must be shut down while fuel tanks are being filled.
2. Fueling must be done in a well ventilated area free of flame, sparks or any other hazard which may cause fire or explosion.
3. Never start the Niftylift if you smell gasoline, liquid propane or diesel fuel.

22 

23 

24 **FUNCTION SELECTOR VALVE**
CAGE BASE

25 **EMERGENCY HANDPUMP**
1) Operate & hold machine control lever as normal.
2) Use handpump lever to move machine.
3) Release control lever to halt machine movement, the hydraulic system resets automatically.

26 **DANGER**
EXPLOSIVE GASES BATTERY ACID
Charging must be done in a well ventilated area free of flame, spark or any other hazard which may cause explosion.

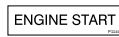
27 **NOTICE**
BATTERY ISOLATOR HANDLES UNDER CANOPY
PULL BOTH TO ISOLATE MACHINE.

Figure 5.3 Labels

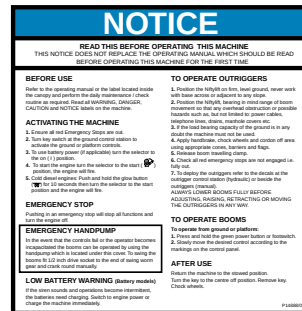
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29



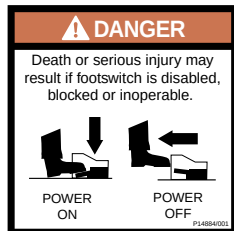
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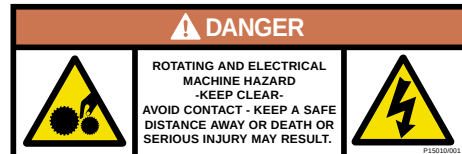
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31



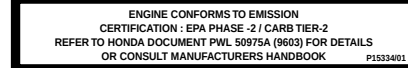
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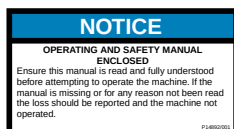
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41



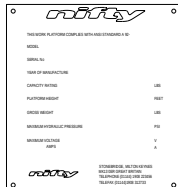
34



35



36


french
german
spanish

labelling



5-21



nifty

HR10/12 (SP26/34)

illustrated parts manual

Manuel illustré de pièces détachées

Illustrierte Stückliste

Manual de piezas ilustrado



6



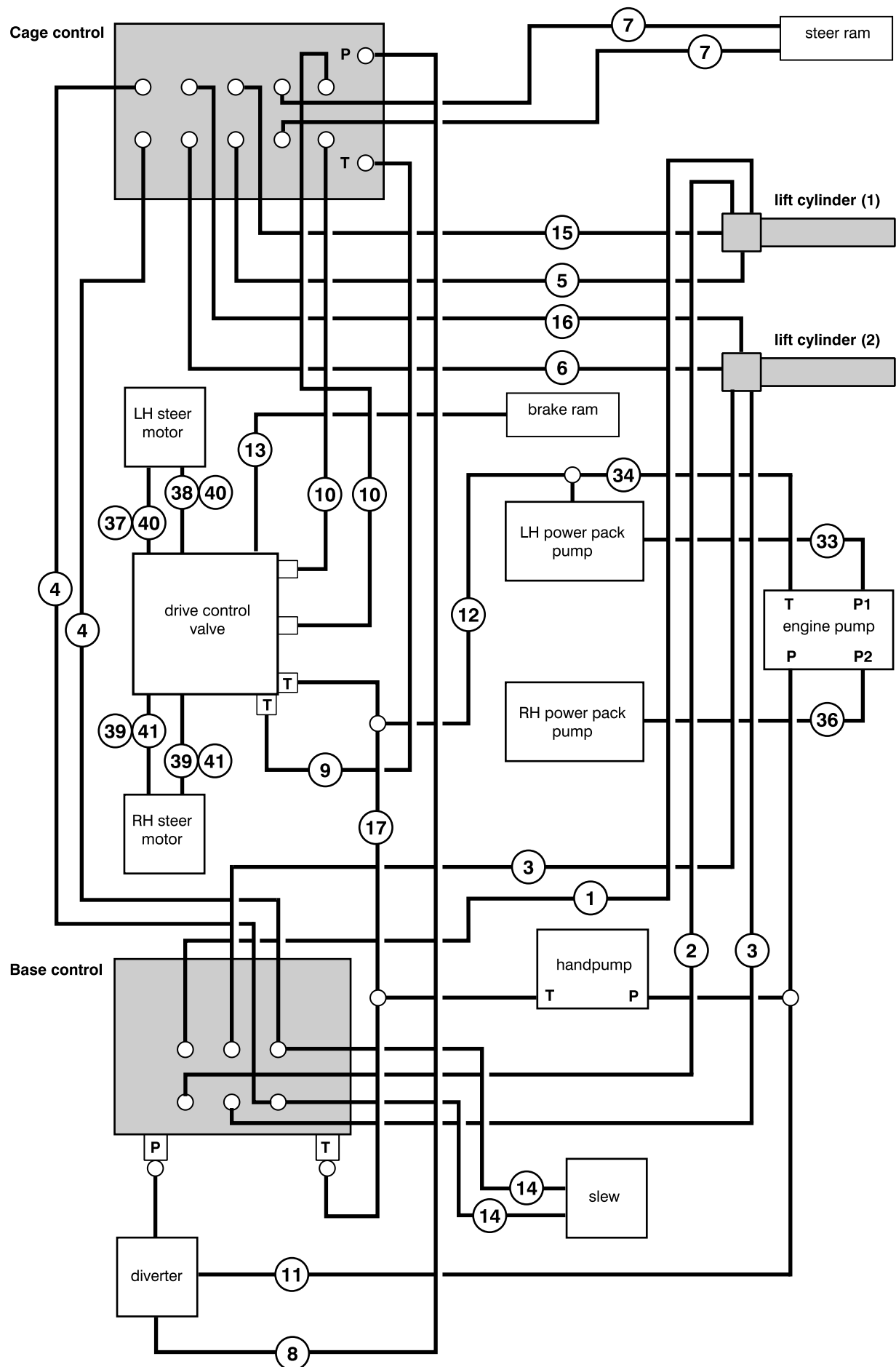
hydraulic hoses
french
german
spanish

6.1 Hose kit HR10 (SP26)

Ref Number	Description	french	german	spanish
1	Base control to RAM 1			
2	Base control to RAM 1			
3	Base control to RAM 2			
4	Base control to cage control slew			
5	Cage control to RAM 1			
6	Cage control to RAM 2			
7	Cage control to steer cylinder			
8	Base control to cage control			
9	Cage return to Drive control valve			
10	Drive control valve to cage			
11	Diesel pump to base control			
12	LH Power pack to drive control valve			
13	Brake cylinder to drive control valve			
14	Base control to slew			
15	Cage control to RAM 1			
16	Cage control to RAM 2			
17	Base control return to drive control valve			
33	LH Power pack to diesel pump			
34	Diesel pump return to LH Power pack			
36	RH Power pack to diesel pump			
37	LH Steer (Standard)			
38	LH Steer (Standard)			
39	RH Steer (Standard)			
40	LH Steer (narrow)			
41	RH Steer (narrow)			

french
german
spanish

hydraulic hoses


french
german
spanish

hydraulic hoses

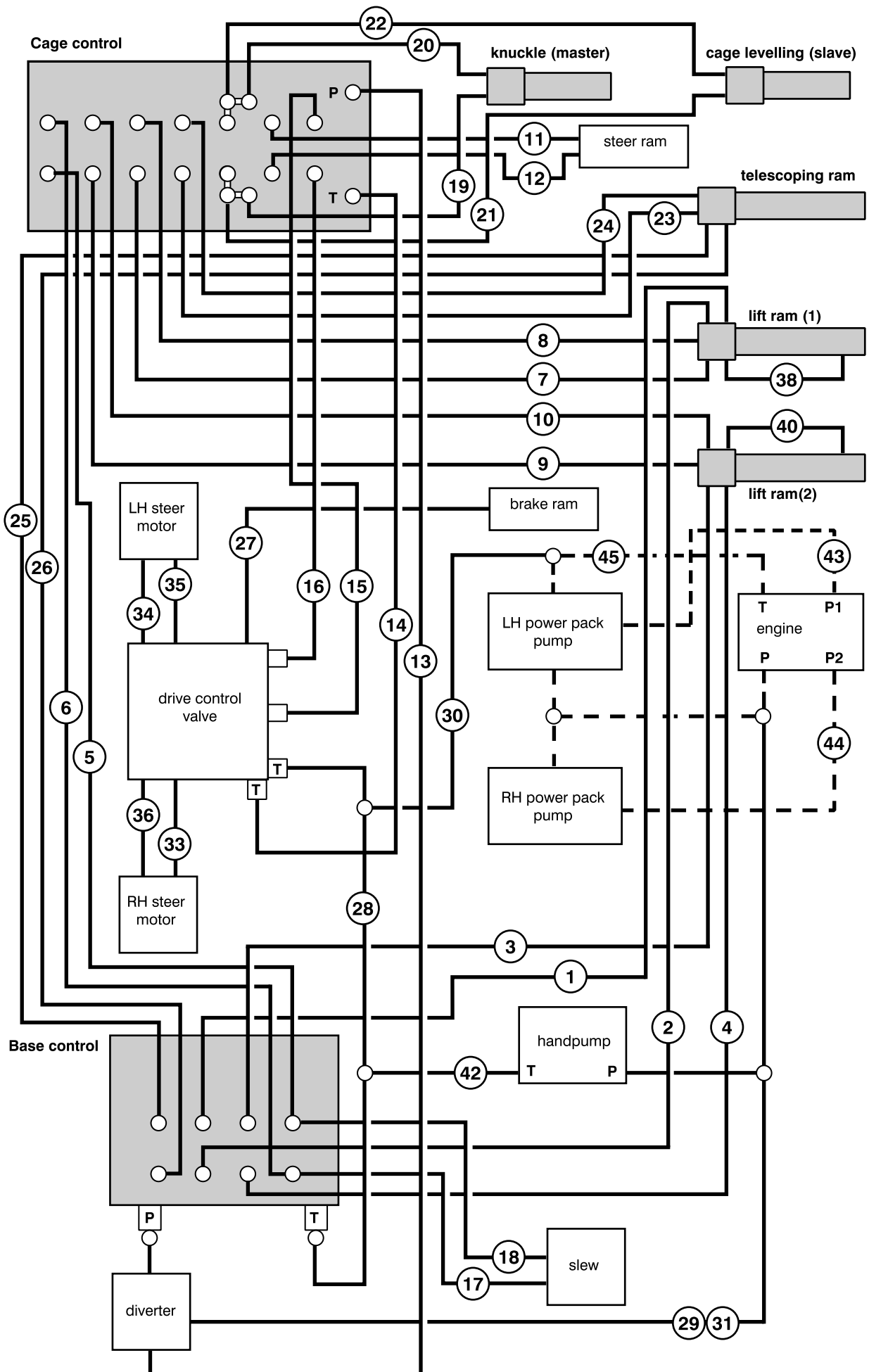
6-3

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

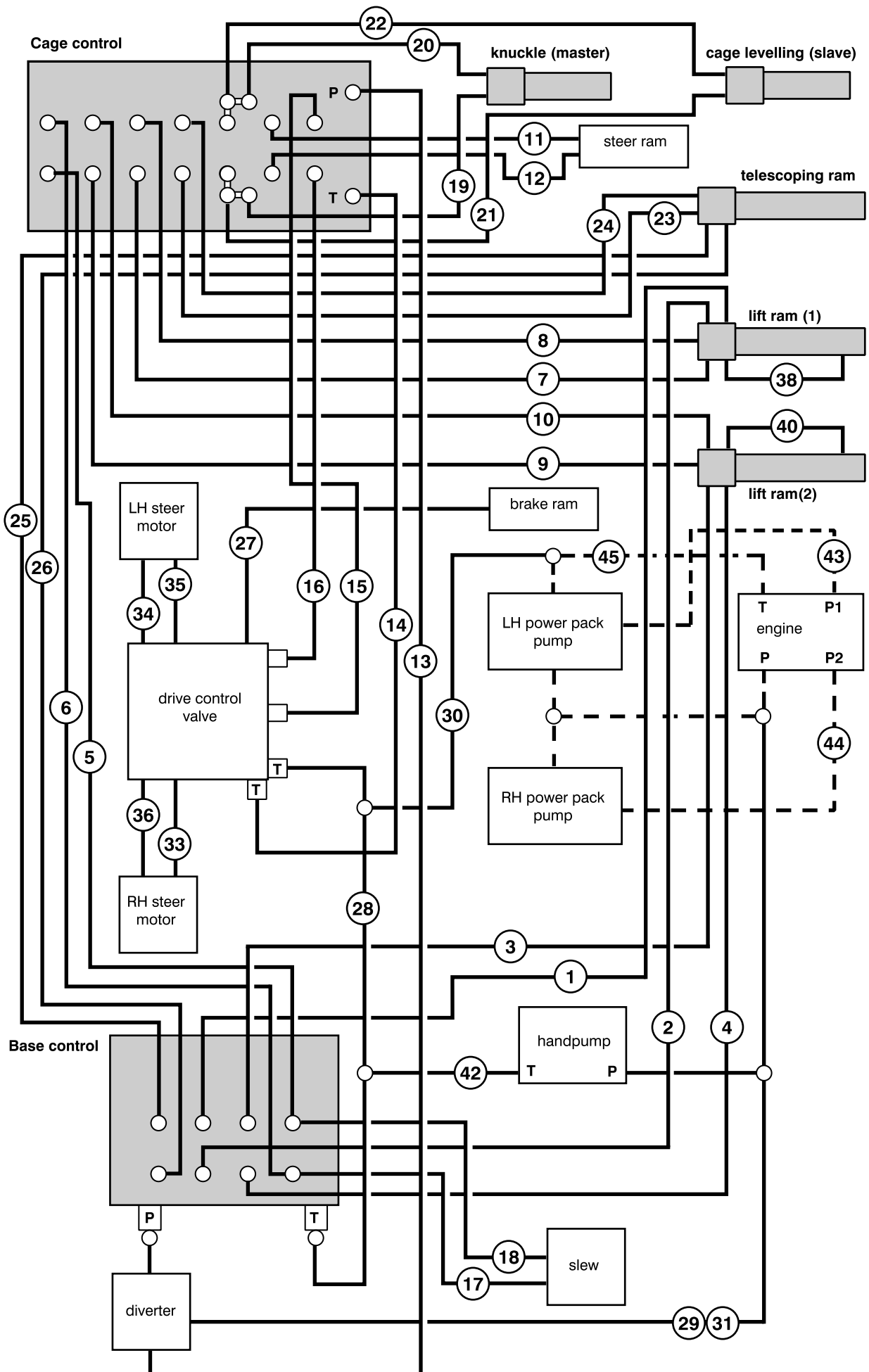
hydraulic hoses

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)			
25	Base control to telescopic ram (Pressure) - OPTIONAL			
26	Base control to telescopic ram (Pilot) - OPTIONAL			
27	Brake ram to drive control valve			
28	Base control to drive control valve (Return)			
29	Power packs to base control (Pressure) - OPTIONAL			
30	LH Power pack to drive control valve (Return)			
31	Power packs to base control (Pressure) - OPTIONAL			
33	RH steer motor to drive control valve			
34	LH steer motor to drive control valve			
35	LH steer motor to drive control valve			
36	RH steer motor to drive control valve			
38	Pilot link ram 1			
40	Pilot link ram 2			
42	Handpump to base control (Return)			
43 *	LH Power pack to engine manifold (Pressure)			
44 *	RH Power pack to engine manifold (Pressure)			
45 *	LH Power pack to engine manifold (Return)			

french
german
spanish

hydraulic hoses



french
german
spanish

hydraulic hoses

6-7

