



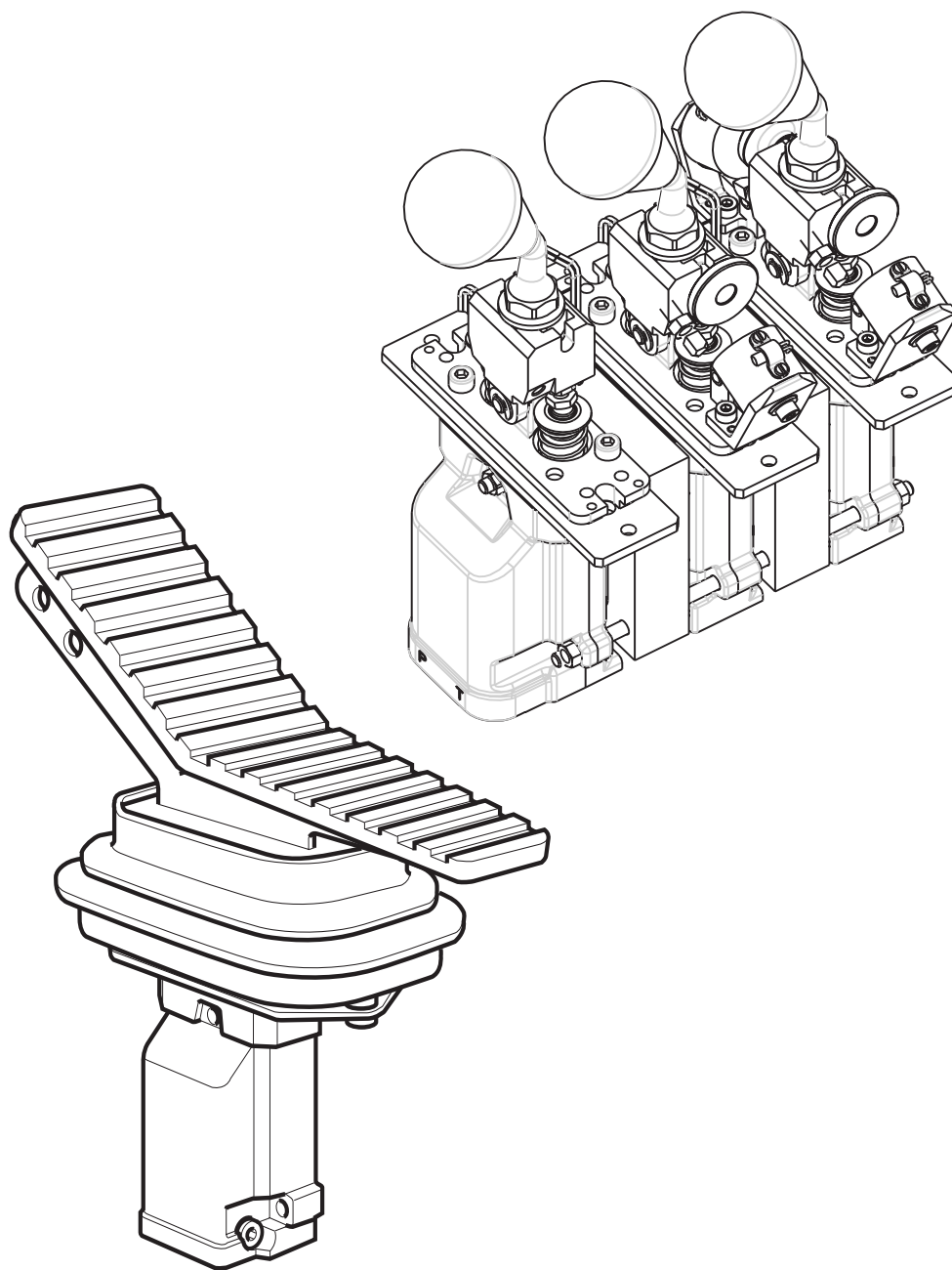
Bulletin HY17-8813-M1/UK

Spare Parts List

Series PCL402

Effective date: January 13, 2014

Supersedes: January 29, 2013



This list of spare parts is designed to give you a good idea of the components included in the product range for valves. To see precisely which component is used for a specific product, you will need to look at the customer specification for the product in question. The customer specification contains a number of entries, and for each entry, a code pressure or flow is specified with a code or a number. To help you find your way around, this list of spare parts contains references to these entries and codes.

Codes on the image page of the list of spare parts usually appear in bold and enclosed in a border. The table page contains available spare part sets. The ordering code is the product code that appears in the Part column.

The spare part to be used is determined by the first two columns, which contain the entry and the code from the customer specification. If these columns are empty, the spare part set is valid regardless of the selected code, unless indicated otherwise

The symbols in the frame below are used in this Spare Parts List to help you find the right tools, the right torques, suitable grease etc.

A little technical index. Example.

- 1 = Item pos. no. 1.
- 1(2x) = Item pos. no. 1 consists of 2 pieces in the kit.
- 1 [2] = Item pos. no. 2 already mounted on the item pos. no. 1 at delivery.
- 1 [2](2x) = Item pos. no. 1 (see above) consists of 2 pieces in the kit.

Conversion factors

1 kg	= 2.2046 lb
1 N	= 0.22481 lbf
1 Nm	= 0.10197 kpm
1 bar	= 14.504 psi
1 l	= 0.21997 UK gallon
1 l	= 0.26417 US gallon
1 cm ³	= 0.061024 in ³
1 m	= 3.2808 feet
1 mm	= 0.03937 in
9/5 °C + 32	= °F

Symbols for servicing

 = Phillips screw	 = Thread for disassembly type...
 = Slot screw	 = Tightening torque in Nm
 = Socket head dimensions in mm and/or inch	 = Use locking/sealing fluid type...
 = Hexagon dimensions in mm and/or inch	 = Use corrosion preventative type...
 = Sixpoint socket	 = Use hydraulic liquid for lubrication
 = Wrench size in mm and/or inch or special assembly/disassembly tool needed. No...	 = Use grease type...
	 = Spool classified by size



WARNING – USER RESPONSIBILITY

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.

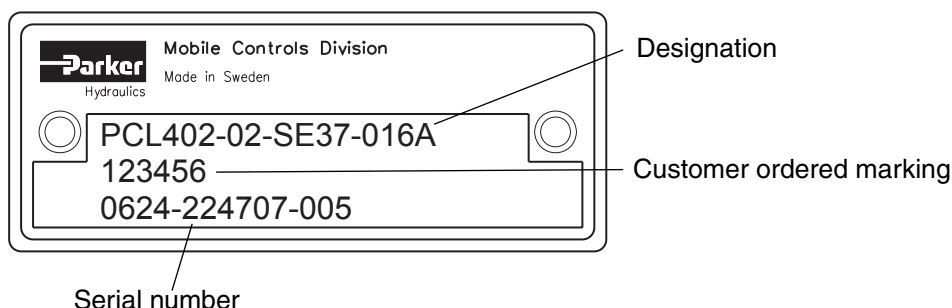
The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

Offer of Sale

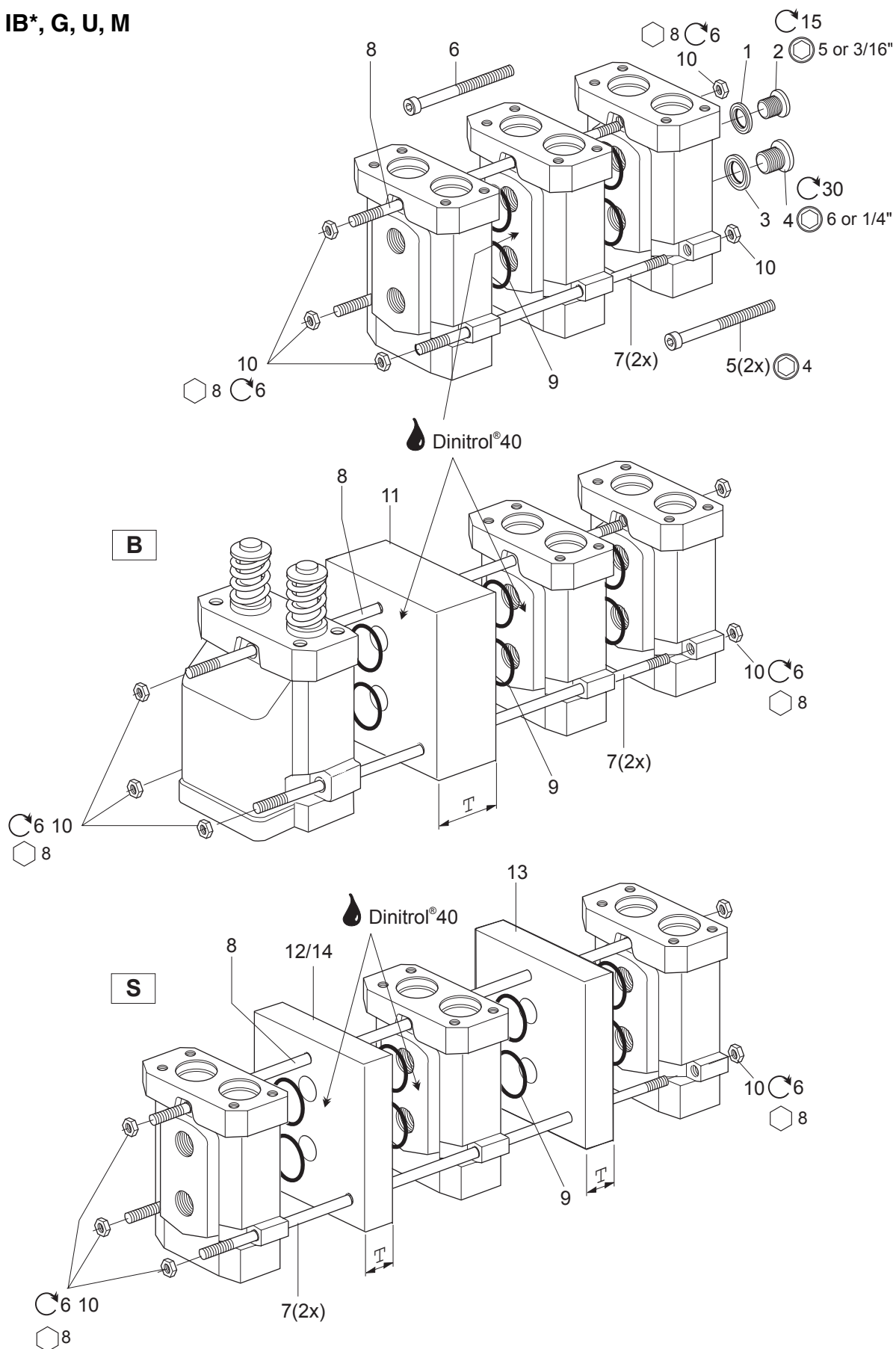
Please contact your Parker representation for a detailed "Offer of Sale".

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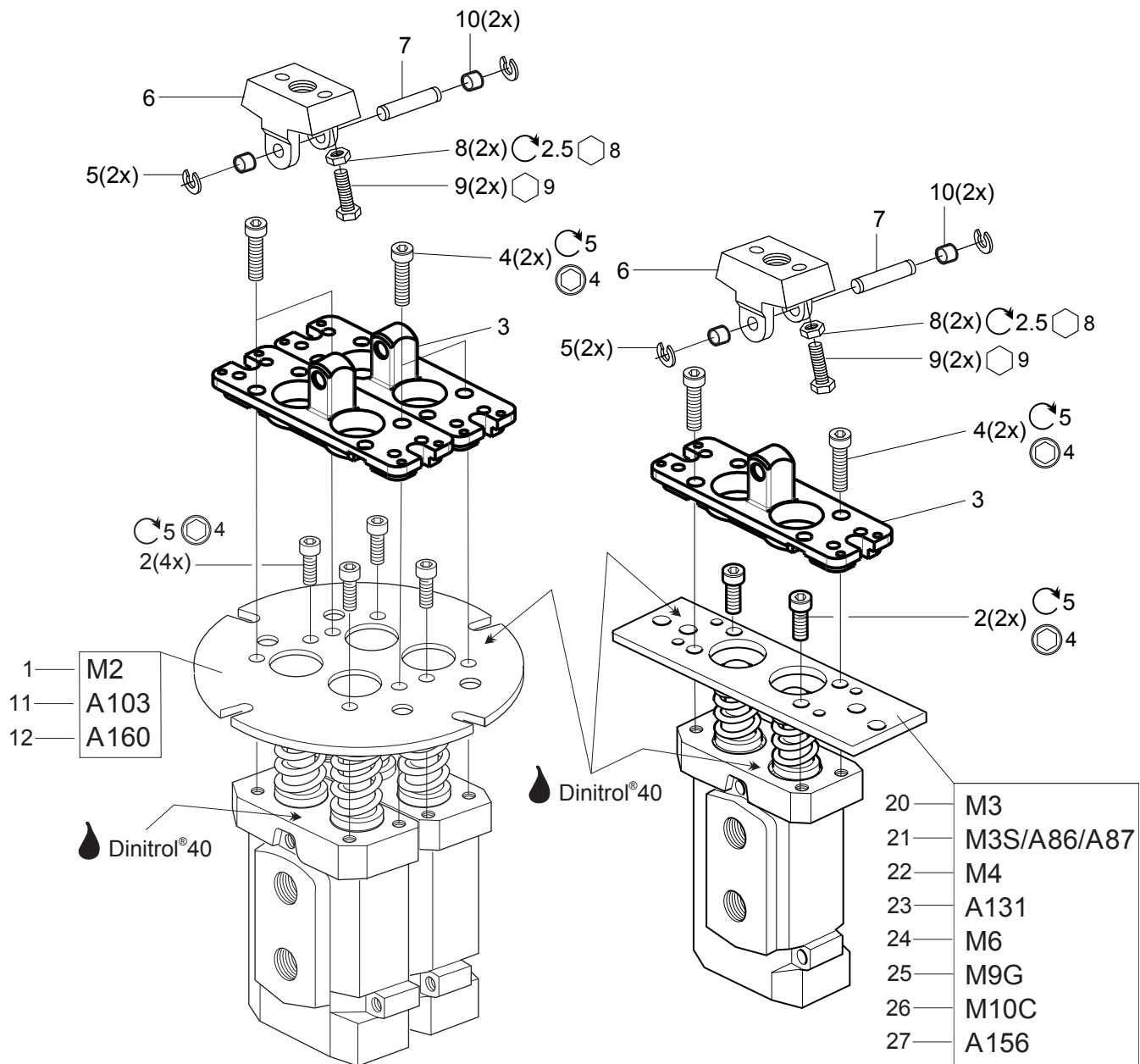
Valve serial numbers consist of three groups of digits
 The first group shows year and week of manufacture:
 In this example, 0624 means week 24 of 2006
 The remaining digits are for internal use within Parker

S, B, IB*, G, U, M



See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
M	04	9120089609	Plug kit M	1, 2, 3, 4
G	04	9120089328	Plug kit BSP	1, 2, 3, 4
U	04	9120089329	Plug kit UNF	2 [1], 4 [3]
U	04	-	Plug 4HP5ON-S	2 [1]
U	04	-	Plug 6HP5ON-S	4 [3]
		6761073	Intersection seals	9(2x)
PCL402-4		9120089359	Tie rod kit for 2 PCL402 sections	5(2x), 6, 9(2x), 10(3x)
PCL402-6		9120089303	Tie rod kit for 3 PCL402 sections	7(2x), 8, 9(4x), 10(6x)
PCL402-8		9120089304	Tie rod kit for 4 PCL402 sections	7(2x), 8, 9(6x), 10(6x)
PCL402-10		9120089305	Tie rod kit for 5 PCL402 sections	7(2x), 8, 9(8x), 10(6x)
PCL402-12		9120089306	Tie rod kit for 6 PCL402 sections	7(2x), 8, 9(10x), 10(6x)
PCL402-14		9120089509	Tie rod kit for 7 PCL402 sections	7(2x), 8, 9(12x), 10(6x)
IB2	90	6760536	Spaceblock IB2 (T = 35 mm)	9(2x), 13
IB2	90	9120089303	Tie rod kit for totally 3 sections	7(2x), 8, 9(4x), 10(6x)
IB2	90	9120089304	Tie rod kit for totally 4 sections	7(2x), 8, 9(6x), 10(6x)
IB2	90	9120089305	Tie rod kit for totally 5 sections	7(2x), 8, 9(8x), 10(6x)
IB2	90	9120089306	Tie rod kit for totally 6 sections	7(2x), 8, 9(10x), 10(6x)
IB2	90	9120089509	Tie rod kit for totally 7 sections	7(2x), 8, 9(12x), 10(6x)
IB2	90	9120089510	Tie rod kit for totally 8 sections	7(2x), 8, 9(14x), 10(6x)
IB2	90	9120089511	Tie rod kit for totally 9 sections	7(2x), 8, 9(16x), 10(6x)
IB22	90	6760537	Spaceblock IB22 (T = 22 mm)	9(2x), 12
IB22	90	9120089696	Tie rod kit for 2 PCL402 sections a)	7(2x), 8, 9(4x),10(6x)
IB22	90	9120089697	Tie rod kit for 3 PCL402 sections a)	7(2x), 8, 9(8x),10(6x)
IB22	90	9120089698	Tie rod kit for 4 PCL402 sections a)	7(2x), 8, 9(12x),10(6x)
IB22	90	9120089699	Tie rod kit for 5 PCL402 sections a)	7(2x), 8, 9(16x),10(6x)
IB19	90	6760538	Spaceblock IB19 (T = 19 mm)	9 (2x), 14
IB19	90	9120089530	Tie rod kit for 2 PCL402 sections a)	7(2x), 8, 9(4x),10(6x)
IB19	90	9120089531	Tie rod kit for 3 PCL402 sections a)	7(2x), 8, 9(8x),10(6x)
IB19	90	9120089532	Tie rod kit for 4 PCL402 sections a)	7(2x), 8, 9(12x),10(6x)
IB19	90	9120089533	Tie rod kit for 5 PCL402 sections a)	7(2x), 8, 9(16x),10(6x)
IB67	90	6760539	Spaceblock IB67 (T = 67 mm)	9(2x), 11
IB67	90	9120089534	Tie rod kit for 2 PCL402 sections a)	7(2x), 8, 9(4x),10(6x)
IB67	90	9120089535	Tie rod kit for 3 PCL402 sections a)	7(2x), 8, 9(8x),10(6x)
Other combinations as above, on request			a) With one IB-plate between all PCL sections.	

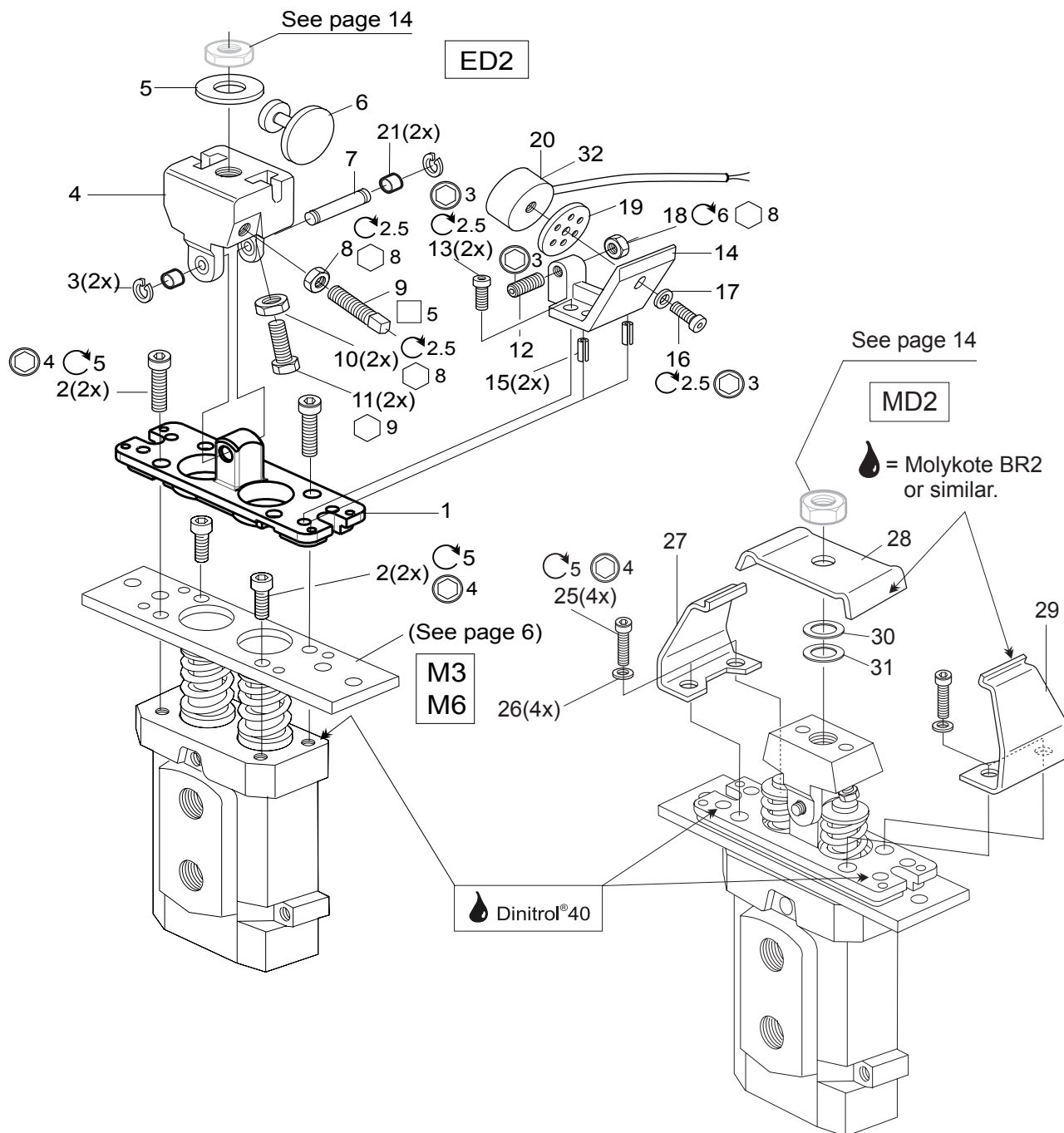
**M2, M3, M3S, M4, M6, M9G, M10C, Lever Link,
A86, A87, A103, A131, A156, A160**



See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
/	80	9120089307	Lever link	3 [5(2x), 6, 7, 8(2x), 9(2x), 10(2x)], 4(2x)
M2	11	9120089351	Mounting plate M2	1, 2(4x)
A103*	5*	9120089588	Mounting plate A103	2(4x), 11
A160	11	6760355	Mounting plate A160	2(4x), 12
M3	11	9120089308	Mounting plate M3	2(2x), 20
M3S, A86, A87	11	9120089712	Mounting plate M3S, A086, A087	2(2x), 21 (Stainless Steel Plate)
M4	11	9120089361	Mounting plate M4	2(2x), 22
A131	11	6763290	Mounting plate A131	2(2x), 23 (Stainless Steel Plate)
M6	11	9120089360	Mounting plate M6	2(2x), 24
M9G	11	6760205	Mounting plate M9G	2(2x), 25
M10C	11	6760206	Mounting plate M10C	2(2x), 26
A156	11	6760256	Mounting plate A156	2(2x), 27

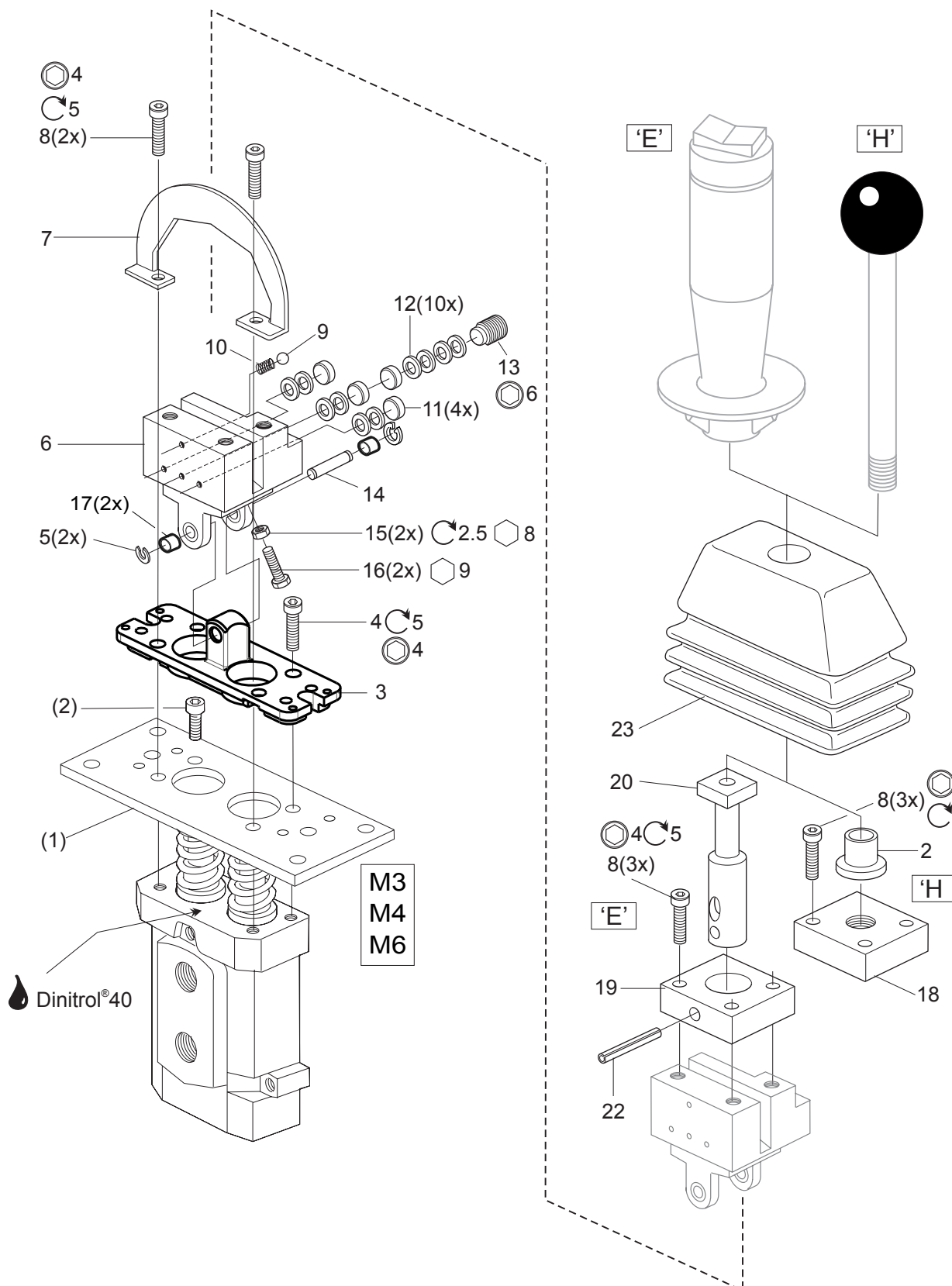
* Old Customer Specification

ED2, MD2, P5T



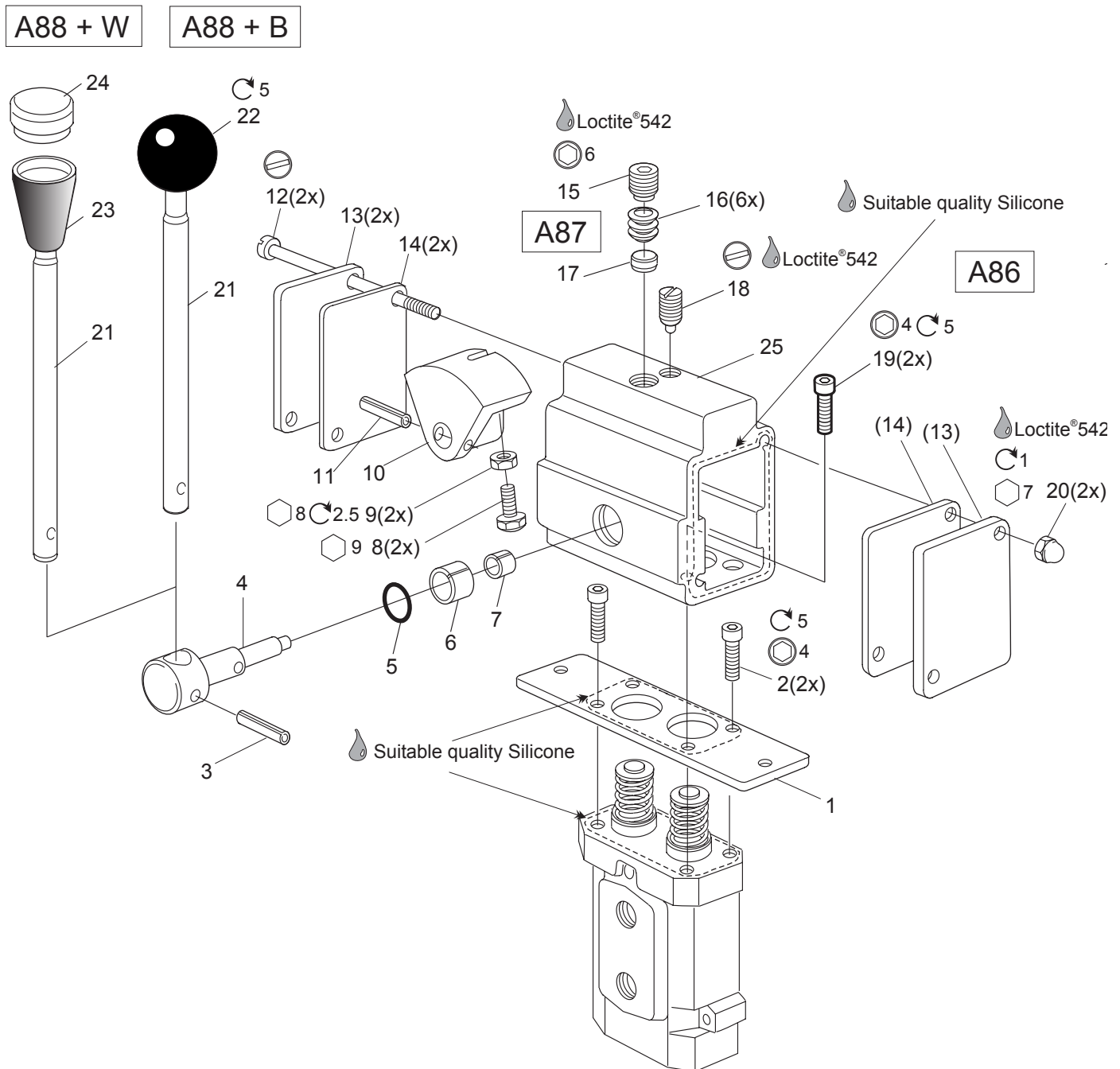
See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
ED2	80	9120089336	Bearing plate assembly ED2	1 [3(2x), 4, 7, 10(2x), 11(2x), 21(2x)], 2(2x), 5
ED2	80	9120089677	Anchor plate assembly ED2	6
ED2	80	9120089536	Lever link assembly, ED2	1 [3(2x), 4, 7, 10(2x), 11(2x), 21(2x)], 2(2x), 5, 6(2x), 8(2x), 9(2x)
ED2	80	9120089537	Bracket kit for solenoid ED2	12, 13(2x), 14, 15(2x), 16, 17, 18, 19(3x), 20
ED2	80	9120089061	Solenoid bracket ED2	13(2x), 14, 15(2x), 16, 17, 19(3x), 20
ED2	80	9120089333	Detent solenoid bracket ED2	12, 13(2x), 14, 15(2x), 18
ED2	80	9120089334	Solenoid ED2	16, 17, 20
P5T + ED2	26 + 80	9120089724	Solenoid bracket ED2 for P5T	12, 13(2x), 14, 15(2x), 16, 17, 18, 19(3x)
P5T + ED2	26 + 80	9120089725	Solenoid ED2 for P5T	19(3x), 32 (Pos. 19: at required)
MD2	80	9120089614	Detent kit MD2	25(4x), 26(4x), 27, 28, 29, 30, 31

S2



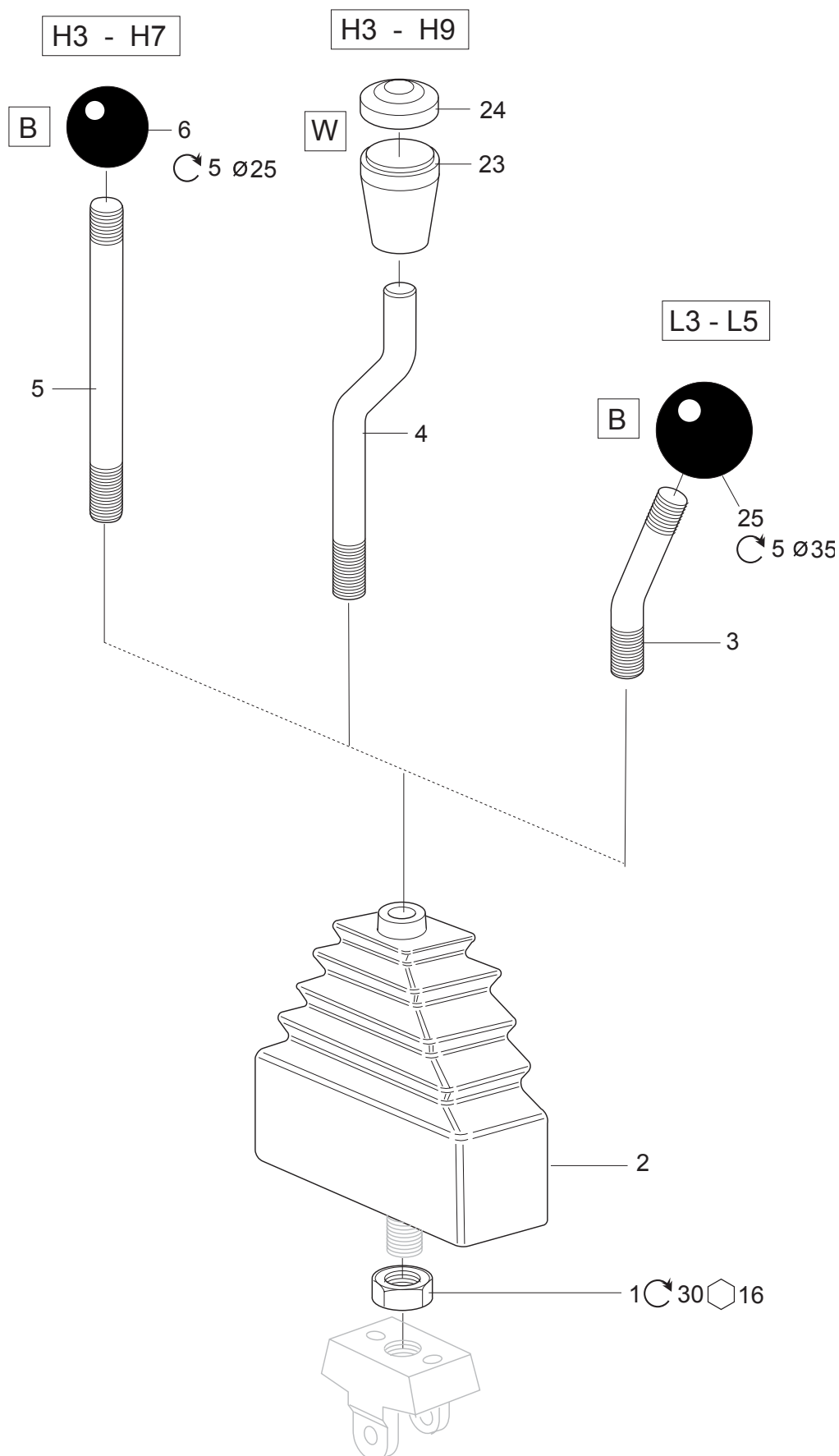
See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
S2	80	9120089352	Friction ratchet S2, assembly	3 [5(2x), 6, 14, 15(2x), 16(2x), 17(2x)], 4, 7, 8(2x), 9, 10, 11(4x), 12(10x), 13
S2	80	6760569	Boot type S2	23
S2	80	9120089342	Bearing plate assembly, S2	3 [5(2x), 6, 14, 15(2x), 16(2x), 17(2x)], 4, 8(2x)
S2	80	9120089343	Brake lining kit, S2	9(2x), 10, 11(4x), 12(12x), 13
S2	80	9120089345	Brake bow kit	7, 8(2x)
S2 + H*	80 + 26	9120089377	Lever bracket kit, "H"	8(3x), 18, 21, 23
S2 + E*	80 + 26	9120089378	Lever bracket kit, "E"	8(3x), 19, 20, 22, 23

A86, A87, A88, B, W

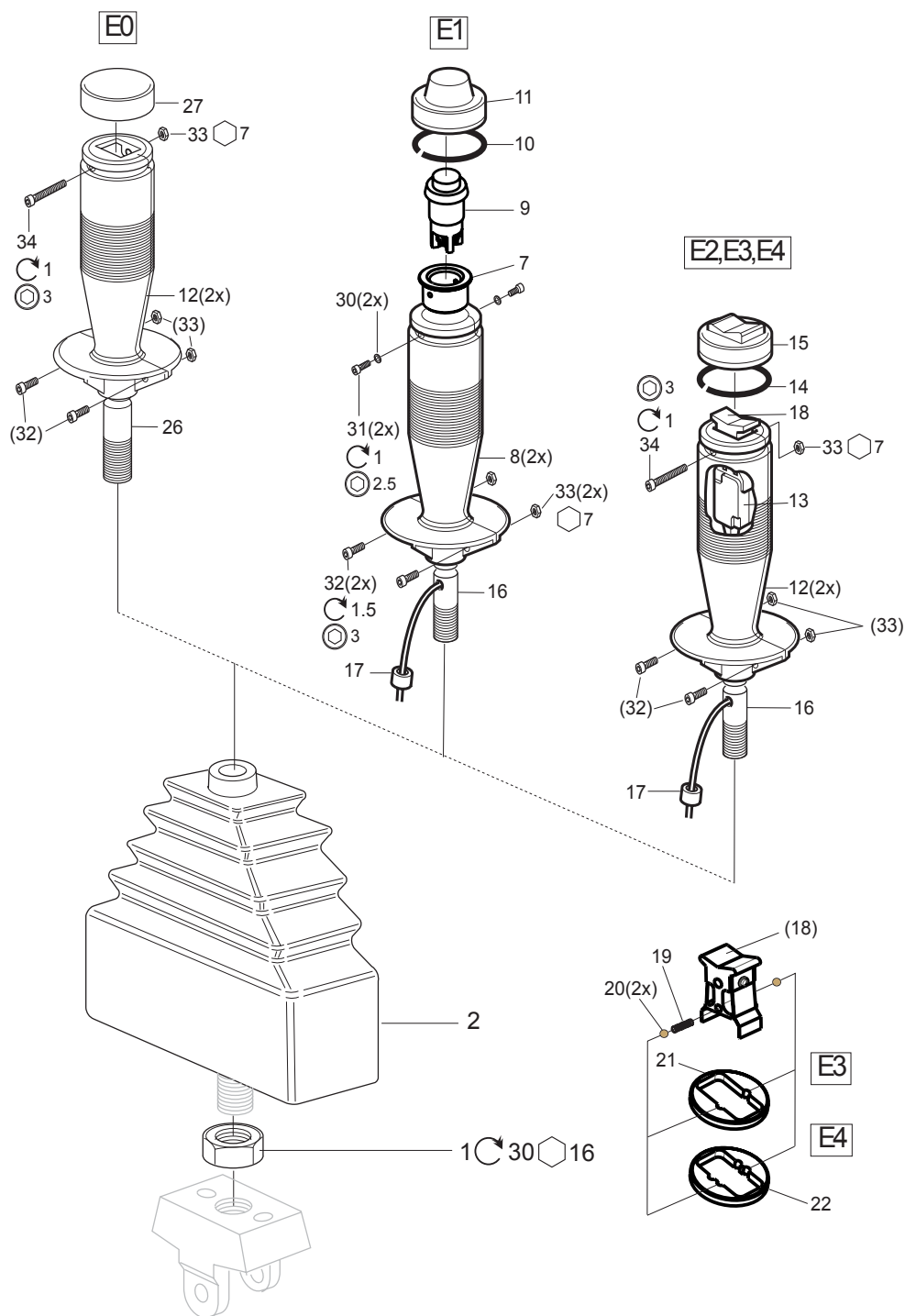


See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
A86	35	9120089543	Actuator for marine environments, A86	1, 2(2x), 25 [4, 5, 6, 7, 8(2x), 9(2x), 10, 11], 12(2x), 13(2x), 14(2x), 15, 18, 19(2x), 20(2x)
A87	35	9120089544	Actuator for marine environments, sliding detent and mid-pos. indication, A87	1, 2(2x), 25 [4, 5, 6, 7, 8(2x), 9(2x), 10, 11], 12(2x), 13(2x), 14(2x), 15, 16(6x), 17, 18, 19(2x), 20(2x)
A88 + B	26 + 27	9120089545	Lever handle with knob	3, 21, 22
A88 + B	26 + 27	6760953	Handle ball Ø33 (black)	22
A88 + W	26 + 27	9120089546	Lever handle with knob and window	3, 21, 23, 24
A88 + W	26 + 27	6760950	Handle window with lever knob	23, 24
A88 + W	26 + 27	6760546	Handle window	24 (6x)

H3 - H9, L3 - L5, B, W



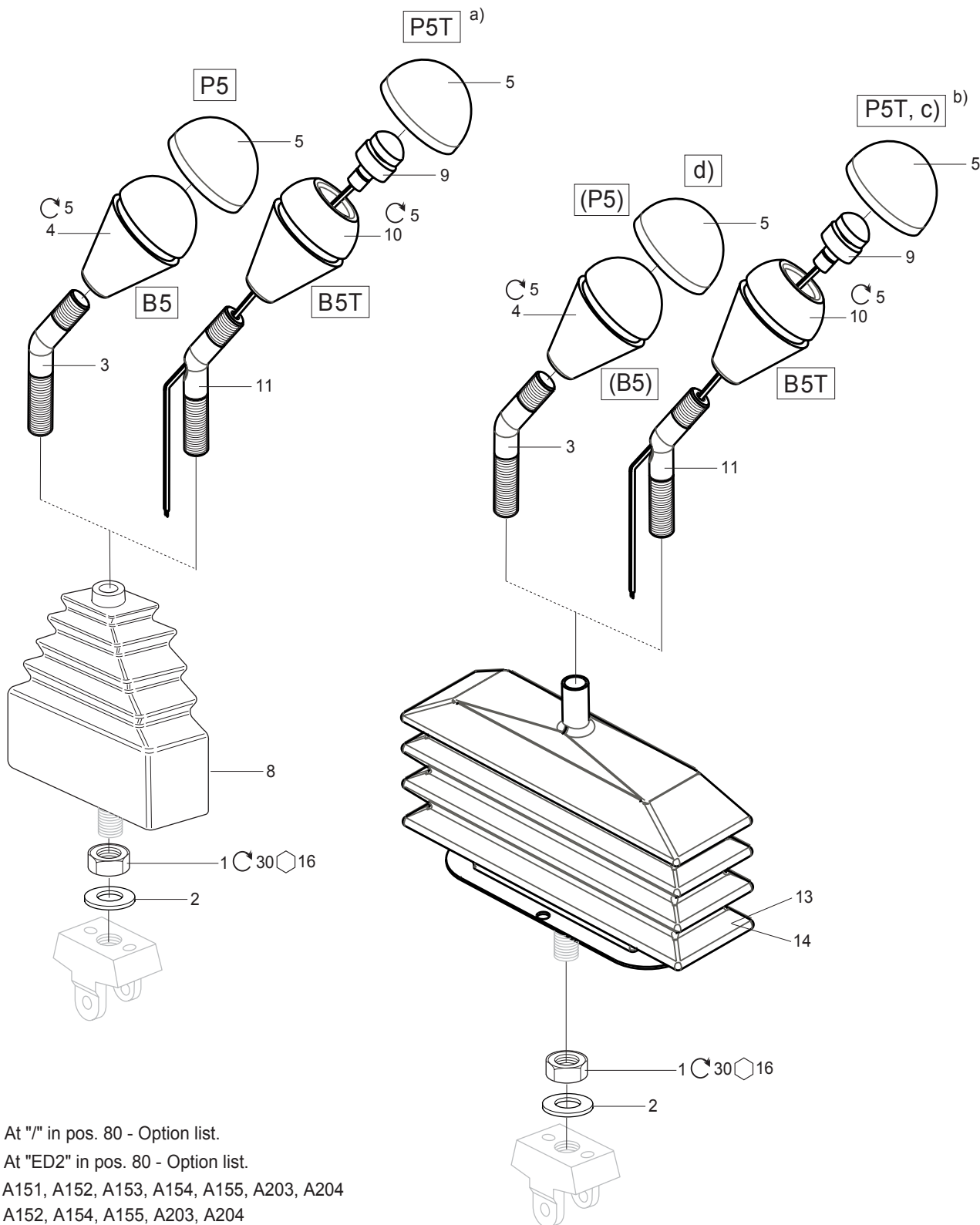
See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
H3 + B	26 + 27	9120089362	Lever handle H3 - B	1, 2, 5, 6
H3S + B	26 + 27	9120089713	Lever handle H3S - B	1, 2, 5, 6 (Stainless steel lever stem)
H4 + B	26 + 27	9120089363	Lever handle H4 - B	1, 2, 5, 6
H5 + B	26 + 27	9120089364	Lever handle H5 - B	1, 2, 5, 6
H6 + B	26 + 27	9120089365	Lever handle H6 - B	1, 2, 5, 6
H7 + B	26 + 27	9120089366	Lever handle H7 - B	1, 2, 5, 6
B	27	6760954	Hand ball, Ø25 (black)	6
H3 + W	26 + 27	9120089367	Lever handle H3 - W	1, 2, 4, 23, 24
H4 + W	26 + 27	9120089368	Lever handle H4 - W	1, 2, 4, 23, 24
H5 + W	26 + 27	9120089369	Lever handle H5 - W	1, 2, 4, 23, 24
H6 + W	26 + 27	9120089370	Lever handle H6 - W	1, 2, 4, 23, 24
H7 + W	26 + 27	9120089371	Lever handle H7 - W	1, 2, 4, 23, 24
H8 + W	26 + 27	6760938	Lever handle H8 - W	1, 2, 4, 23, 24
H9 + W	26 + 27	6760939	Lever handle H9 - W	1, 2, 4, 23, 24
H3 - H9	26	6760542	Boot	2
W	27	6760950	Handle window with lever knob	23, 24
W	27	6760546	Handle window	24 (6x)
L3	26	9120089513	Lever handle L3	1, 3, 25
L4	26	9120089512	Lever handle L4	1, 3, 25
L5	26	9120089608	Lever handle L5	1, 3, 25
L3, L4, L5 + B	26 + 27	6760567	Handle ball Ø35, L3, L4, L5 (black)	25

E0, E1, E2, E3, E4

Handles Actuators

See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
E0	26	9120089538	Hand lever E0	26 [1, 12(2x), 27, 32(2x), 33(3x), 34]
E0	26	6760956	Cap lever E0	27
E1	26	9120089372	Hand lever E1	16 [1, 7, 8(2x), 9, 10, 11, 30(2x), 31(2x), 32(2x), 33(2x)], 17
E1	26	6760913	Insert and button kit, hand lever E1	7, 9, 10, 11, 30(2x), 31(2x)
E1	26	9120059115	Handle half E1	8(2x)
E1	26	6763160	Boot E1	10, 11
E1	26	6760452	Switch E1	9
E2	26	9120089373	Hand lever E2	16 [1, 12(2x), 13, 14, 15, 18, 32(2x), 33(3x), 34], 17
E3	26	9120089374	Hand lever E3	16 [1, 12(2x), 13, 14, 15, 18, 32(2x), 33(3x), 34], 17, 19, 20(2x), 21
E3	26	9125963303	Detent E3	19, 20(2x), 21
E4	26	9120089375	Hand lever E4	16 [1, 12(2x), 13, 14, 15, 18, 32(2x), 33(3x), 34], 17, 19, 20(2x), 22
E4	26	9125963304	Detent E4	18, 19, 20(2x), 22
E0, E2, E3, E4	26	9120059110	Handle half E0, E2, E3, E4	12(2x)
E2, E3, E4	26	6760957	Rubber cap E2, E3, E4	14, 15
E2, E3, E4	26	9120089508	Micro switch with cable	13(2x)
A110* + E2*	12*, 13* + 6*	6760823	Micro switch with cable A110*	13(2x)
E0 - E4, P5	26	6760542	Boot E0, E1, E2, E3, E4, P5	2
A49	35	9120089681	Cable 3 x 0.34 x 1100 mm	Not shown

* Old Customer Specification

P5, P5T, B5, B5T, A151 - A155, A203, A204

a) At "/" in pos. 80 - Option list.

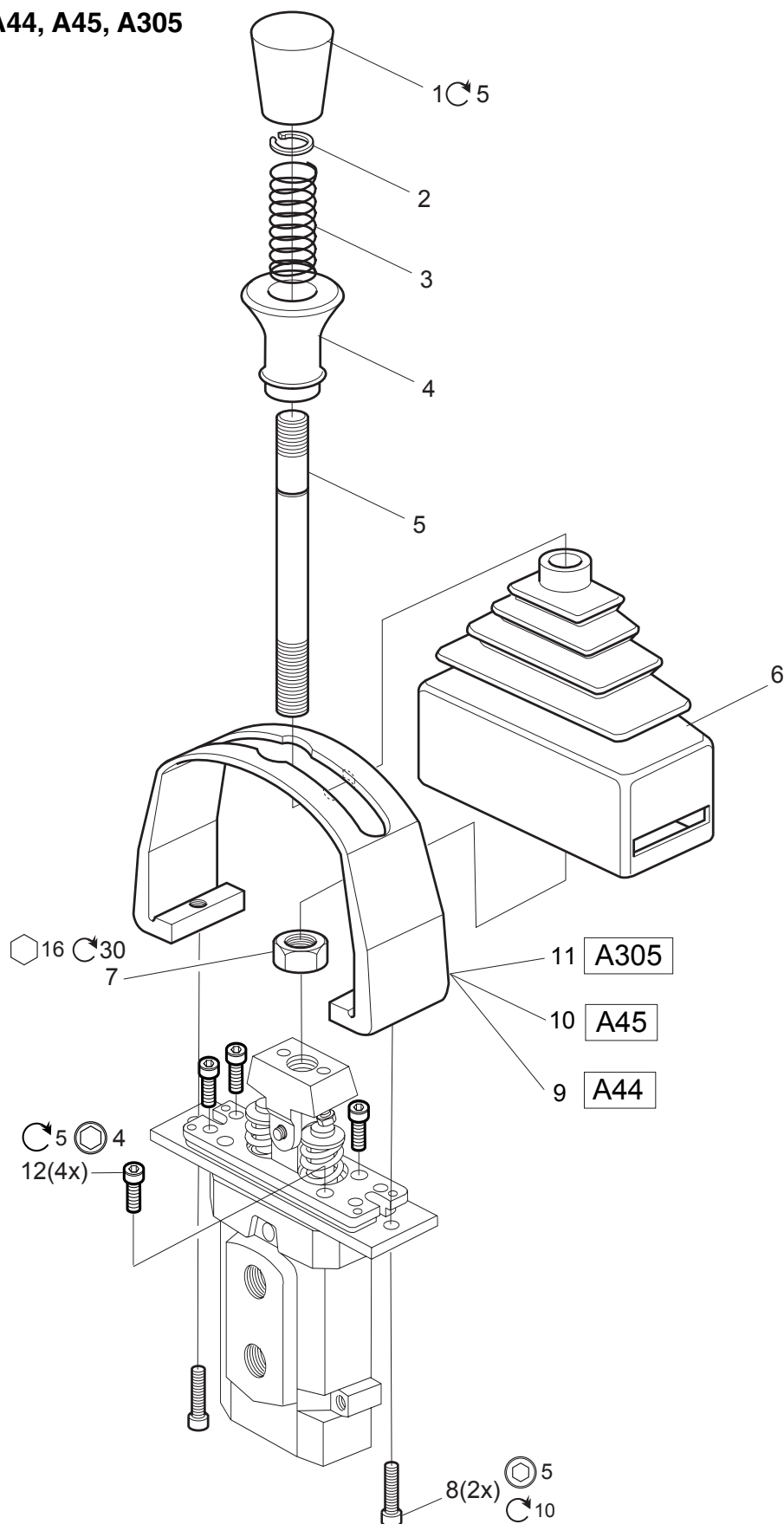
b) At "ED2" in pos. 80 - Option list.

c) A151, A152, A153, A154, A155, A203, A204

d) A152, A154, A155, A203, A204

Handles Actuators

See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
P5 + B5; d)	26 + 27; 19	9120089723	Lever handle P5 - B5	1, 2, 3, 4, 5
B5, B5T; c), d)	27; 19	6760629	Boot B5, B5T	5
P5; P5T + /	26; 26 + 80	6760542	Boot	8
P5T + B5T; c)	26 + 27; 19	9120089722	Lever handle P5T - B5T	1, 2, 5, 9, 10, 11
B5T, c)	27, 19	6760563	Knob B5T with boot	5, 10
P5T	26	9120089680	Push button switch	9
P5T, c), d) + ED2	27, 19 + 80	6760541	Boot type B5T	13 (Not for A151, A152, A203, A204, A300)
A203, A204, A300	19	6760170	Boot A203, A204, A300	14 (3x)
A203, A204, A300	19	6760381	Boot A203, A204, A300	14

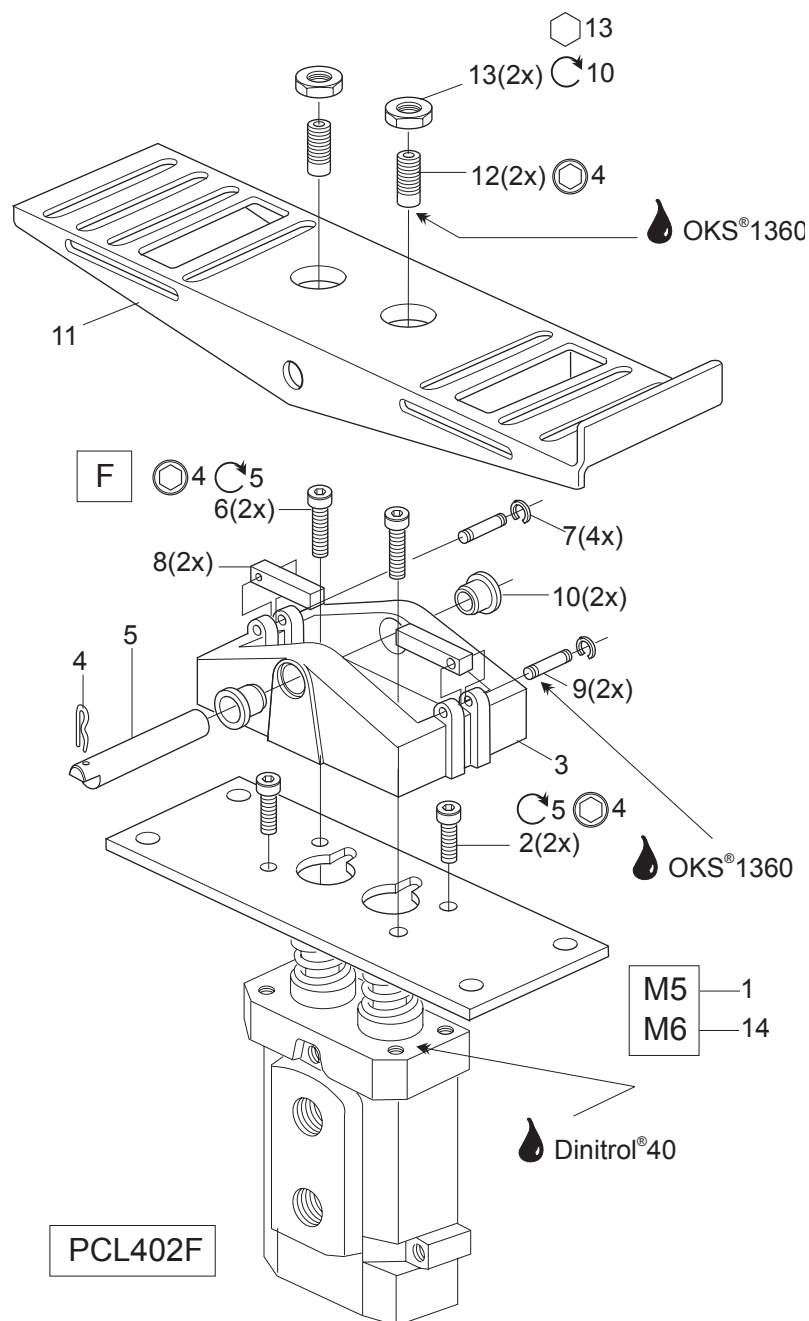
Mid position detent, A44, A45, A305

Handles Actuators

See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
A44*	6*	9120089042	Handle kit mid position detent, A44	1, 2, 3, 4, 5, 6, 7, 8(2x), 9, 12(4x)
A45*	6*	9120089691	Handle kit mid position detent, A45	1, 2, 3, 4, 5, 6, 7, 8(2x), 10, 12(4x)
A44*, A45*; A305	6*; 26	6763177	Lever handle kit, A44, A45, A305	1, 2, 3, 4, 5, 7
A44*	6*	6763178	Detent clamp kit, A44	8(2x), 9, 12(4x)
A45*	6*	6763179	Detent clamp kit, A45	8(2x), 10, 12(4x)
A305	26	6763167	Detent clamp kit, A305	8(2x), 11, 12(4x)
A44*, A45*; A305	6*; 26	6760747	Boot A45, A46, A305	6
			See also Mounting plate assembly	Page 6 and 7

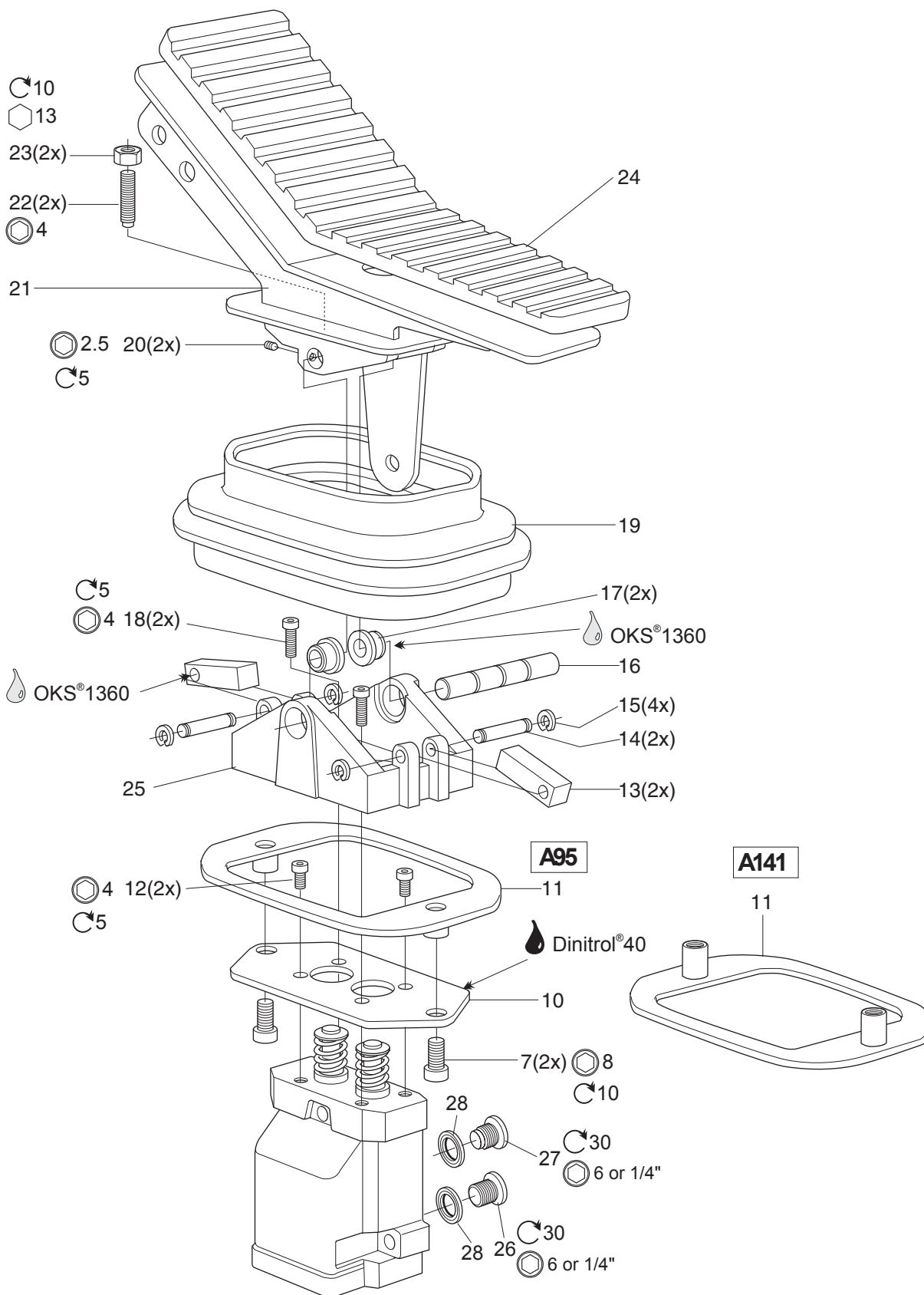
* Old Customer Specification

PCL402F (PCL404)



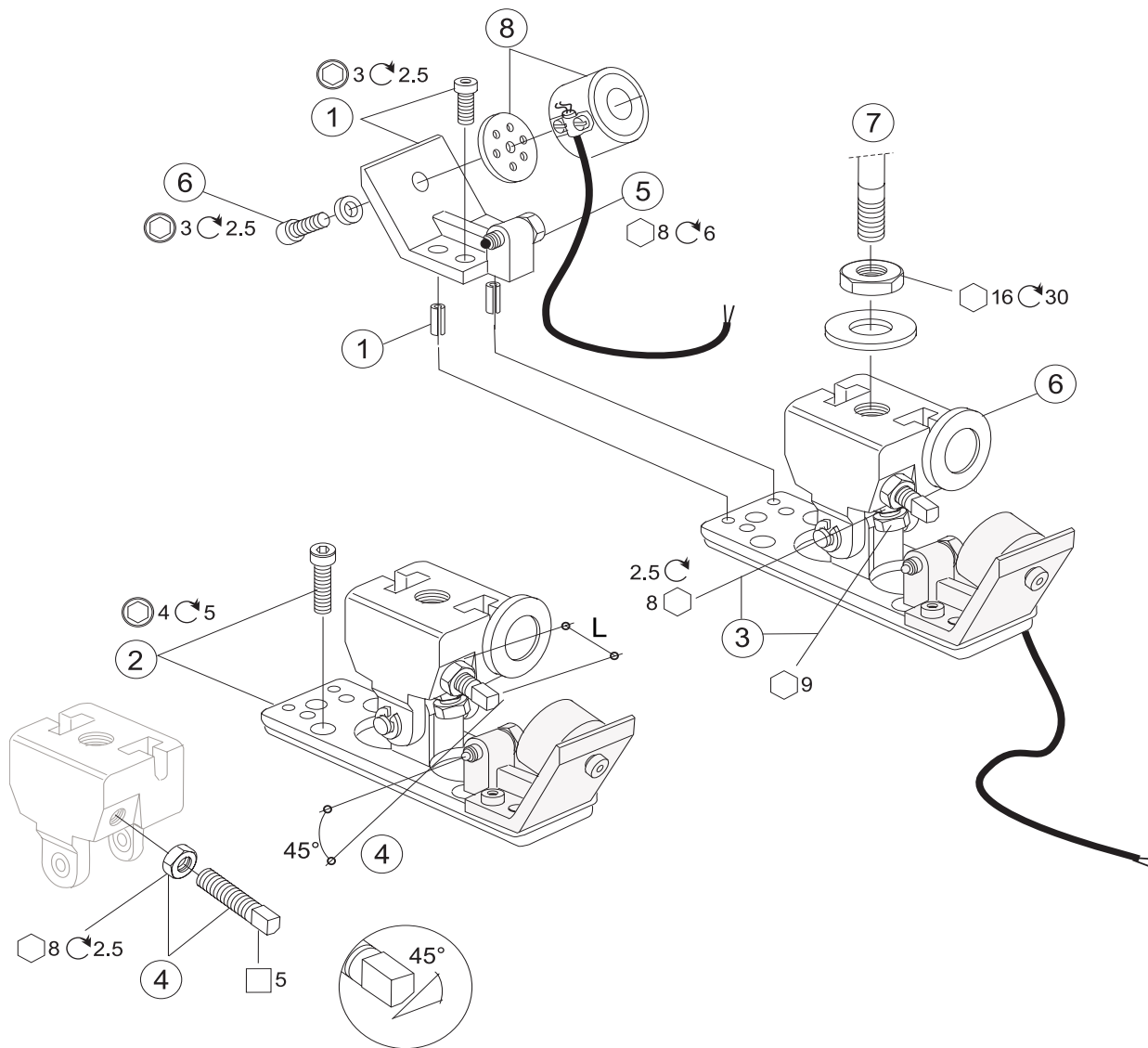
See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
F	26	9120089309	Pedal kit, PCL402F	11, 12(2x), 13(2x)
F	26	9120089310	Bearing plate assembly, PCL402F	1, 2(2x), 3 [7(4x), 8(2x), 9(2x), 10(2x)], 4, 5, 6(2x)
M5 + F	11 + 26	6763239	Mounting plate M5	1, 2(2x)
M6 + F	11 + 26	9120089360	Mounting plate M6	2(2x), 14

PCL402F (PCL404): A95, A141



See Customer Specification				
Code	Pos	Part	Description	Remarks / Items
A95, A141*	26, 12* or 13*	9120089553	Bearing plate A95, A141	7(2x), 10, 11, 12(2x), 18(2x), 19, 25 [13(2x), 14(2x), 15(4x), 17(2x)]
A95, A141*	26, 12* or 13*	9120089554	Pedal A95, A141	16, 20(2x), 21, 22(2x), 23(2x), 24(2x)
A95, A141*	26, 12* or 13*	9120089693	Kit for wearing parts A95, A141	19, 24
A95, A141*	26, 12* or 13*	6760847	Boot type A95, A141	19
A95, A141*	26, 12* or 13*	6760848	Pedal ruber A95, A141	24
F + B + G	26 + 10 + 04	6763027	Plug kit, BSP	26, 27, 28(2x)
F + B + U	26 + 10 + 04	6763028	Plug kit, UNF	26 [28], 27, 28
F + B + M	26 + 10 + 04	6763029	Plug kit, Metric	26, 27, 28(2x)

* Old Customer Specification

Appendix C: Assembly Instructions**Assembly Instructions - ED2**

1. Assemble Bracket/s on Mounting plate.
2. Assemble Mounting plate.
3. Adjust Pressure screw, play to Pressure pin: 0.0-0.05 mm.
4. Assemble Index pin, adjust it to 45°, at same measure "L" as previous.
5. Assemble Spring pin. Adjust it so the force for overcoming the Index pin is (10-13) N for H3-H9 levers, or (15-20) N for L3-L5 levers.
6. Put Anchor plate into place.
7. Assemble Handle, washer, nut.
8. Assemble Solenoid. Adjust it after required by way of spacer rings, so the Anchor plate covers completely the Solenoid area at full stroke of lever.

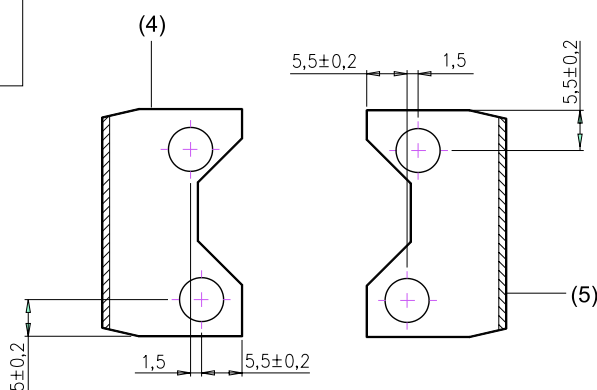
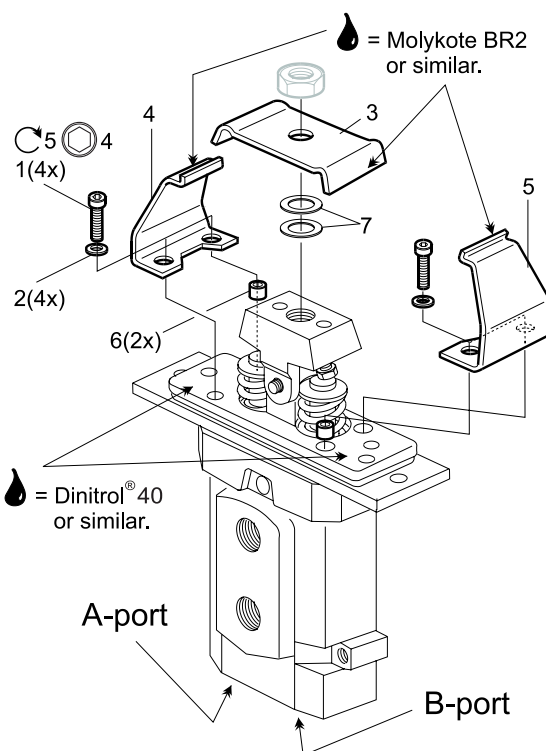
Assembly Instructions - MD2

1. Install sleeve, item 6(2x) as shown.
2. Assemble detent spring blade 4, 5, tighten screws (1) and washers (2).
NB. Spring blades are not identical, compare measures to drawing below..
Correct the blade's position and tighten screws - 5 Nm.
3. Assemble detent blade (3) by re-assembling of lever stem and nut.
Correct detent blade's position against the spring blades and tighten nut.
Use shims (7) to correct detent force and finally tighten nut - 30 Nm.

Correct releasing force from detent position at non pressurized valve is 13 to 25 N. The force measured perpendicular to lever stem approx. 3.5 inch from the detent blade's (3) top surface.

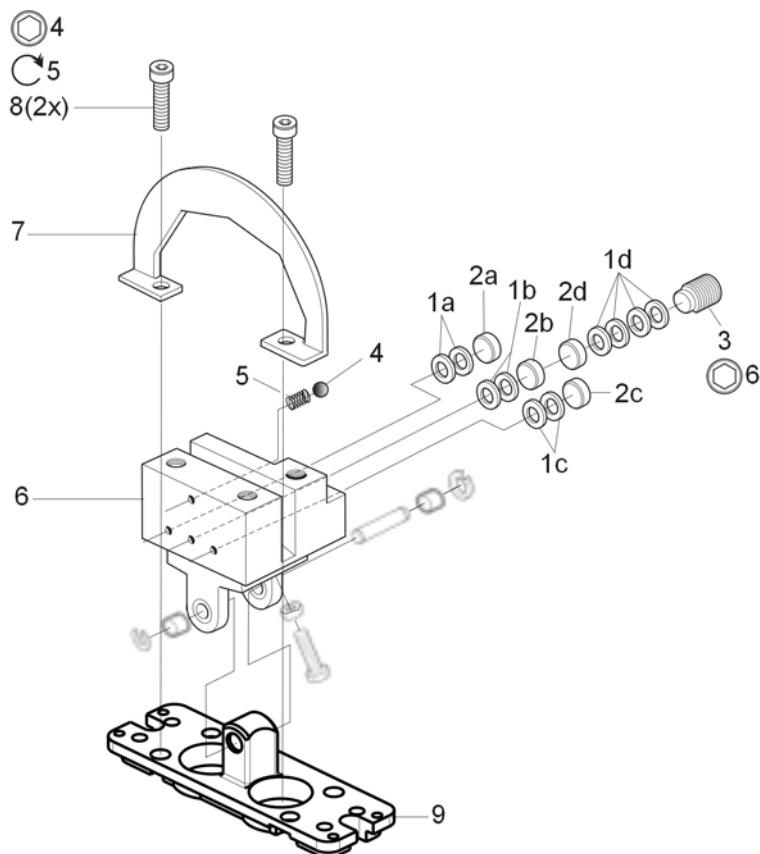
Ordering No new MD2 kit: 9120089614

N.B. Every single part in the kit above is modified compared to parts in MD2 of earlier design which means: parts from the different designs *cannot be mixed*.



N.B. This Instruction is valid to older models of PCL402 with MD2.
Today we are no longer items 6(2x).

Friction brake S2



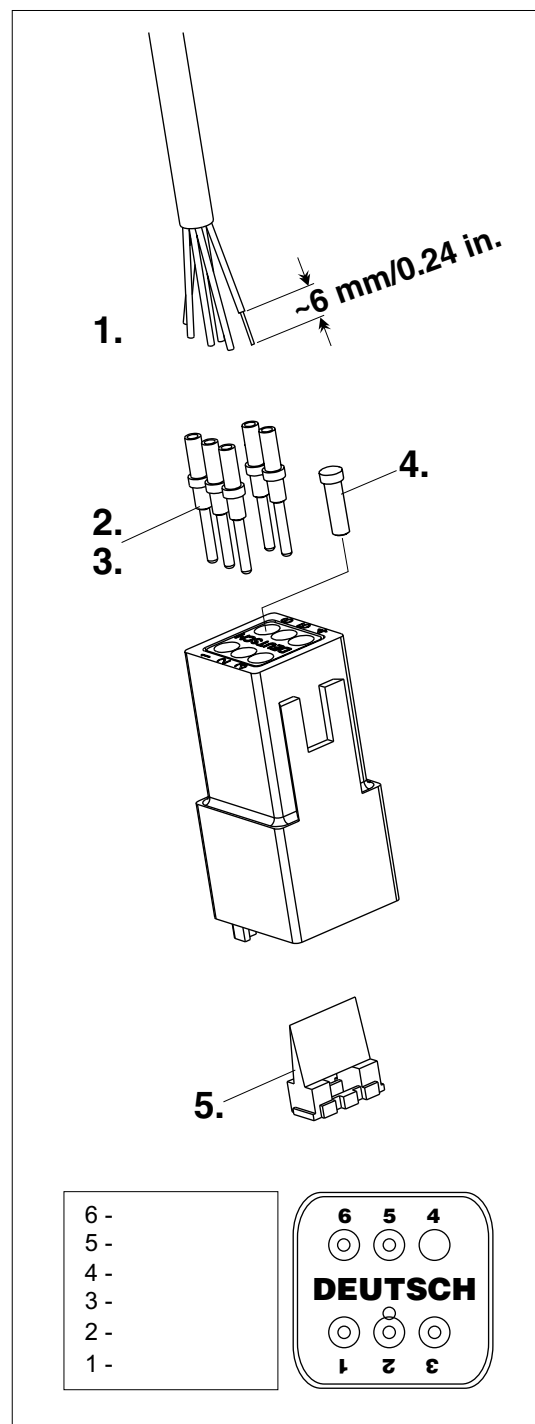
Assembly and Testing Instructions

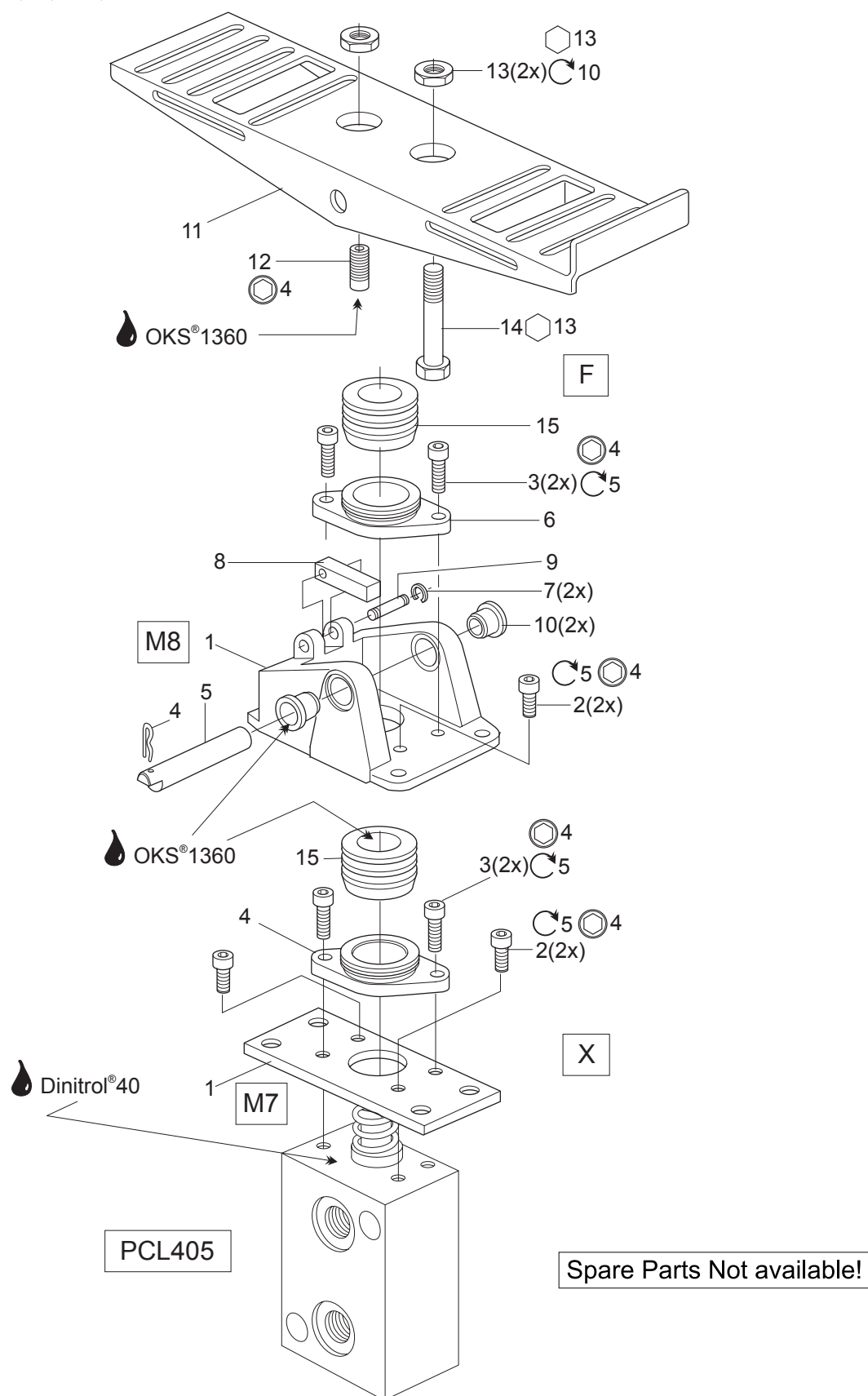
1. Put Cup springs 1a, 1b, 1c and Brake pads 2a, 2b, 2c in the pressure plate hole M12 (item 6).
2. Put Spring 5 and Steel ball 4 in the hole $\Phi 5.1$ mm (item 6), then push with pin max $\Phi 5$ mm. Press Clamp 7 in the groove, but not over the hole of Steel ball 4 and Spring 5.
3. Assemble Brake pad 2d, Cup springs 1d and Adjustment screw 3.
4. Put Spring 5 and Steel ball 4 in the hole. Press on with the stick and fold down the Clamp 7.
5. Assemble Clamp 7 with Screws 8 on the valve PCL402 trough Console 9.
6. Adjust Screw 3 so that the valves lever is in the end position at 40 bar control pressure.

Instructions for assembly of connectors, type Deutsch

1. Peel wires appr. 6 mm/0.24inch
2. Crimp* sleeves on wires.
3. Put sleeves into the contact housing, follow the color/pin # placing acc to requirements.
4. Put blind pin into places not used.
5. Press the locking plug to place.

* Recommended hand tool:
Deutsch, DTT-16-00



PCL405: F, X, M7, M8

[illegible]

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