

McHale 991L



QUALITY

I.S. EN ISO 9001:2015

NSAI Certified



991L **Spare Parts Book**

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Introduction

The **McHale 991L** which you have purchased has been developed through years of constant research and development. Given proper care and attention the **991L** will give years of reliable and dependable performance. However it is important that the operators manual is read and fully understood to achieve this, **before** the machine is operated. As part of this philosophy it is vital to use only **genuine McHale** replacement parts, as these are manufactured to the same high standard as the original machine. These may be obtained through your **McHale** dealer.

If any part of this manual is not fully understood, please contact your **McHale** dealer who will be able to answer any questions or queries that you might have. It is important to quote the machine serial number when requiring spare parts or technical assistance. Space is provided below to record the machine details:

Serial number:	
Year of manufacture:	
Date of delivery:	

If you require further copies of this spare parts manual please
quote part number CLT00443

Note: Parts described as left and right are done so according to the direction that the machine normally travels in.

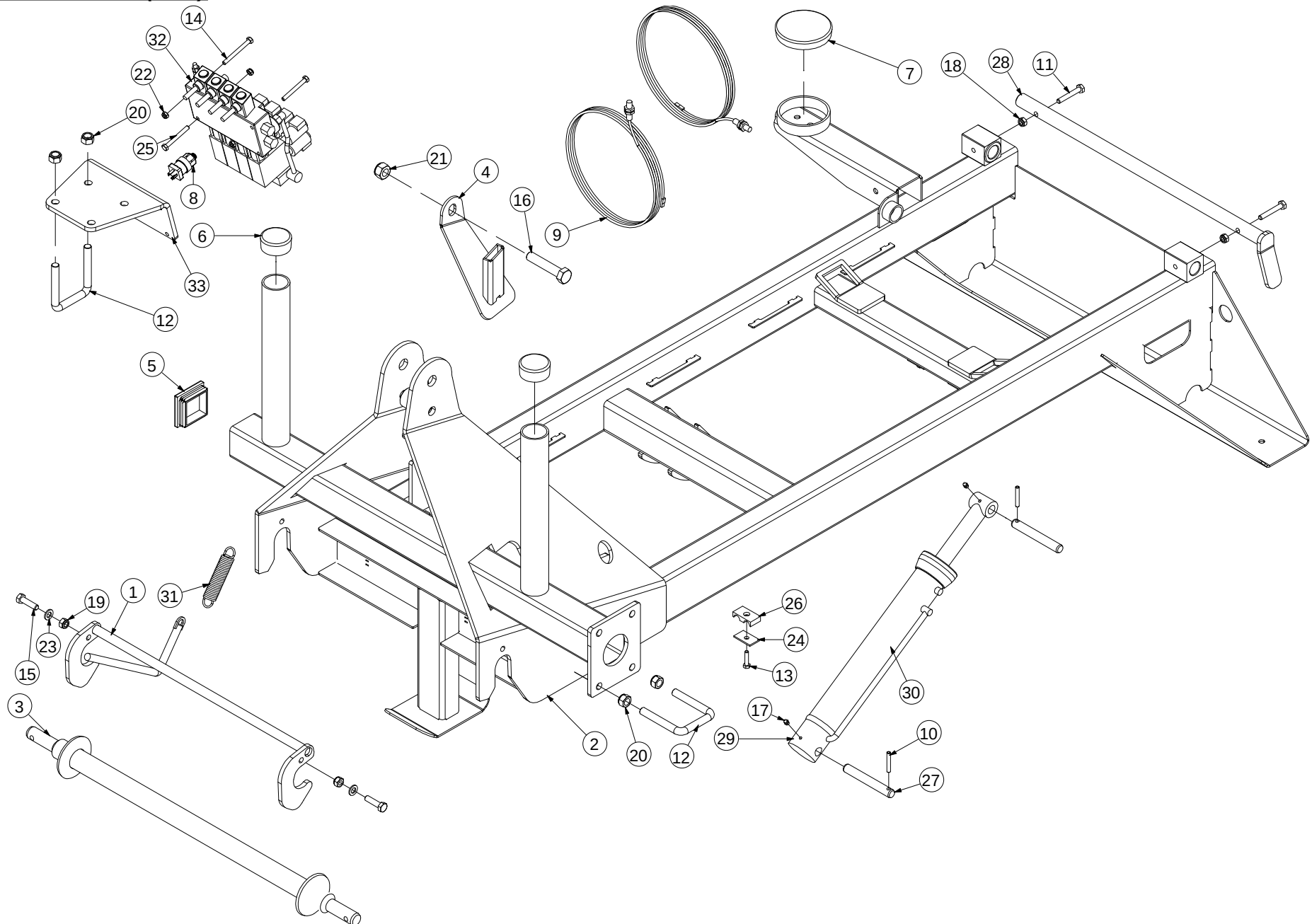
Note: Due to a policy of continuous product development and improvement *McHale Engineering* reserve the right to alter machine specifications without prior notice.

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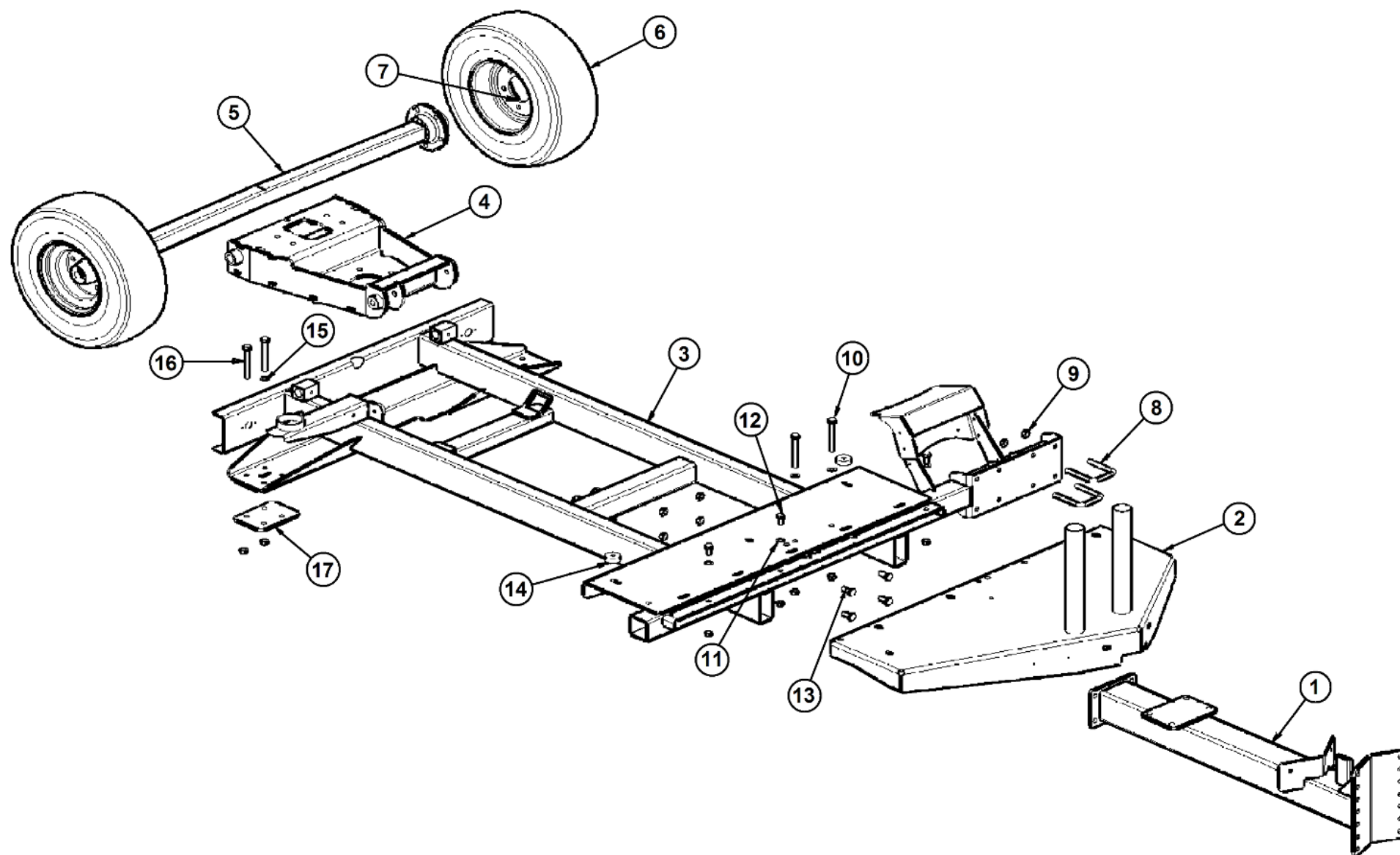
Main chassis (287)



No.	Part No	Description	Qty
1	ACH00003	QUICK FIT LATCH BRACKET	1
2	ACH00011	MAIN CHASSIS 991L	1
3	ACH00224	BAR QUICK FIT CAT 2 (STD)	1
4	ACH02925	HEADSTOCK PLATE ASSEMBLY 991L	1
5	CBC00003	CAP PLAS INSERT SQ 80X80	1
6	CBC00007	CAP BLACK PLASTIC 2 3/8 OSF	2
7	CBC00019	CAP PLAS FERRULE GREY 4 1/2"	1
8	CEL00008	SWITCH PRESSURE 2000PS	1
FOR ELECTRONIC MACHINES (991LBER-TBER) SHOWN			
9	CEL00036	SENSOR CABLE 5M	2
CEL00215 UNIVERSAL MAGNETIC SENSOR IS A SUITABLE REPLACEMENT FOR ALL McHALE MAGNETIC SENSORS			
10	CFA00010	ROLL PIN 8X50 Z/P	2
11	CFA00028	BOLT M10X65 Z/P	2
12	CFA00039	U BOLT M16X80X80 Z/P	4
13	CFA00055	BOLT M8X35 Z/P	5
14	CFA00057	SETSCREW M8X80 Z/P	1
15	CFA00079	BOLT M12X45	2
16	CFA00093	BOLT M20X100 Z/P	1
17	CFA00118	GREASE NIPPLE M8X1.25 STRAIGHT	2
18	CFA00123	NUT M10 NYLOC	2
19	CFA00124	NUT M12 NYLOC	2
20	CFA00128	NUT M16 NYLOC	8
21	CFA00129	NUT M20 NYLOC	1
22	CFA00132	NUT M8 NYLOC Z/P	3
23	CFA00138	WASHER FLAT 12MM Z/P	2
24	CFA00183	HOSE CLAMP COVER PLATE 14-18	5
25	CFA00342	SETSCREW M8X70 Z/P	2
26	CFA00370	HOSE CLAMP 18MM (2 PER SET)	5
27	CMH00068	PIN 19X140&8MM Z/P	2
28	CMH00078	PIN 30X740&2X11MM CH	1
29	CRA00039	RAM TIP TABLE LINKAGE BW	1
30	CSE00039	SEAL KIT TABLE TIP LINKAGE	1
SEAL KIT FOR CRA00039 RAM			
31	CSG00011	SPRING EXT 3.66X28.5X135X25	1
32	CVA00010	VALVE CTL 4 BANK MAN LINKAGE	1
FOR MANUAL MACHINES (991LB) NOT SHOWN			
32	CVA00086	VALVE CTL 4BANK ELEC LBER+LSR	1
FOR ELECTRONIC MACHINES (991LBER-TBER) SHOWN			
33	ACH00004	PLATE MANUAL VALVE	1
FOR MANUAL MACHINES (991LB) NOT SHOWN			
33	CZH00224	10MM L LINKAGE VALVE PLATE	1
FOR ELECTRONIC MACHINES (991LBER-TBER) SHOWN			

No.	Part No	Description	Qty
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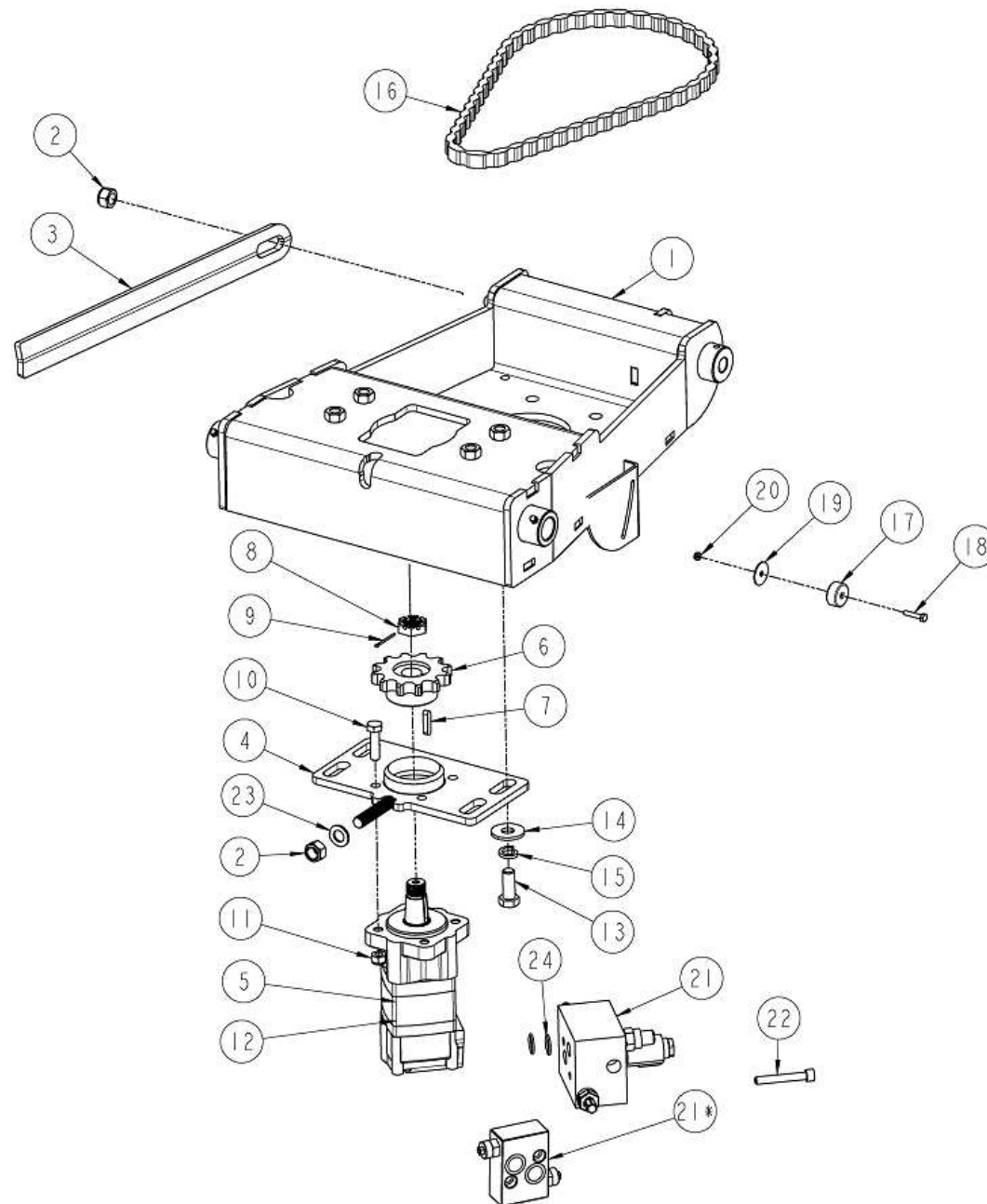
991TBER & 995TSR trailed chassis (37)



No.	Part No	Description	Qty
1	ADB00018	DRAWBAR TRAILED	1
2	ACH00078	TRAILED LNKGE POWER PACK PLATE	1
3	ACH00077	TRAILED LINKAGE CHASSIS	1
4	ACH00013	LINKAGE SUBCHASSIS	1
5	CAX00043	AXLE ASSEMBLY 60X1500 5-STUD TSR + TBER	1
6	CWH00020	WHEEL ASY 20.5X8.00-10	2
7	CAX00006	HUB FIVE STUD (FAD)	2
8	CFA00039	U BOLT M16X80X80 Z/P	2
9	CFA00128	NUT M16 NYLOC	12
10	CFA00209	BOLT M16X120 Z/P	4
11	CFA00222	WASHER FLAT 14MM Z/P	5
12	CFA00398	SETSCREW M14X30 Z/P	5
13	CFA00229	SETSCREW M16X35 Z/P	4
14	CBE00013	BUFFER 50 X 21 X 12MM HOLE	4
15	CFA00140	WASHER FLAT 16MM Z/P	4
16	CFA00209	BOLT M16X120 Z/P	4
17	CZH02141	10MM AXLE BOLT ON BRACKET	2

No.	Part No	Description	Qty
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Sub chassis (288)

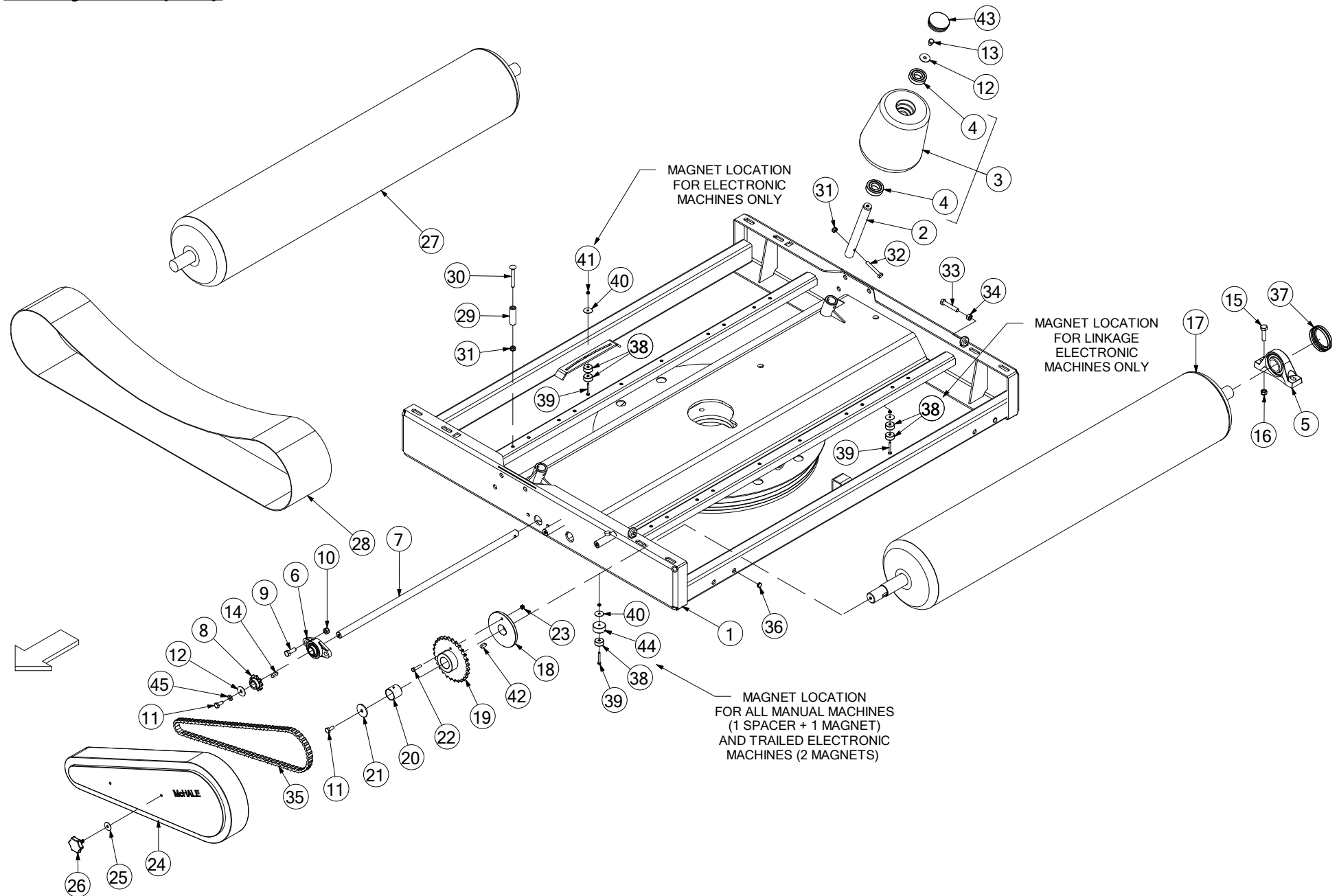


No.	Part No	Description	Qty
1	ACH00013	LINKAGE SUBCHASSIS	1
2	CFA00128	NUT M16 NYLOC	4
3	CZH00228	10MM L LINKAGE SAFETY BAR	1
4	ACH00014	MOTOR ADJUSTING PLATE LINKAGE	1
5	CMT00002	MOTOR 250CC 4BOLT 1 1/4" TAPER	1
6	CMH00061	SPROCKET 1" PITCH 12T TAPERED	1
7	CFA00157	KEY 8 X 7 X 35	1
8	CMT00015	NUT CASTLE ALL MOTOR SHAFTS	1
9	CFA00021	SPLIT PIN 4X50 Z/P	1
10	CFA00079	BOLT M12X45	4
11	CFA00124	NUT M12 NYLOC	4
12	CSE00081	SEAL KIT CHARLYNN COMPLETE	1
13	CFA00151	SETSCREW M16X40 Z/P	4
14	CZD00192	4MM L TRAILED SPACER	4
15	CFA00141	WASHER SPRING M16 HEAVY DUTY	4
16	CCH00003	CHAIN KIT 16B 1" PITCH 47LINKS	1
17	CEL00017	MAGNET BLUE WHEEL	1
18	CFA00047	SETSCREW M6X30 Z/P	1
19	CFA00145	WASHER MUDWING M6 32MM OD	1
20	CFA00131	NUT M6 NYLOC	1
21	CVA03000	VALVE BLOCK SLOW SPEED DANFOSS	1
22	CFA00029	BOLT M10X70 SOC CAP Z/P	2
23	CFA00140	WASHER FLAT 16MM Z/P	1
24	CSE00009	SEAL O RING 27ODX2.6 SECT 70S	2
21	CVA00011	VALVE RELIEF CL OMS100&130BAR	1
22	ACH00021	MOTOR COMPLETE ROUND LINKAGE	1

CONTAINS ITEMS [4,5,6,7,8,9]X1 [10,11]X4

No.	Part No	Description	Qty
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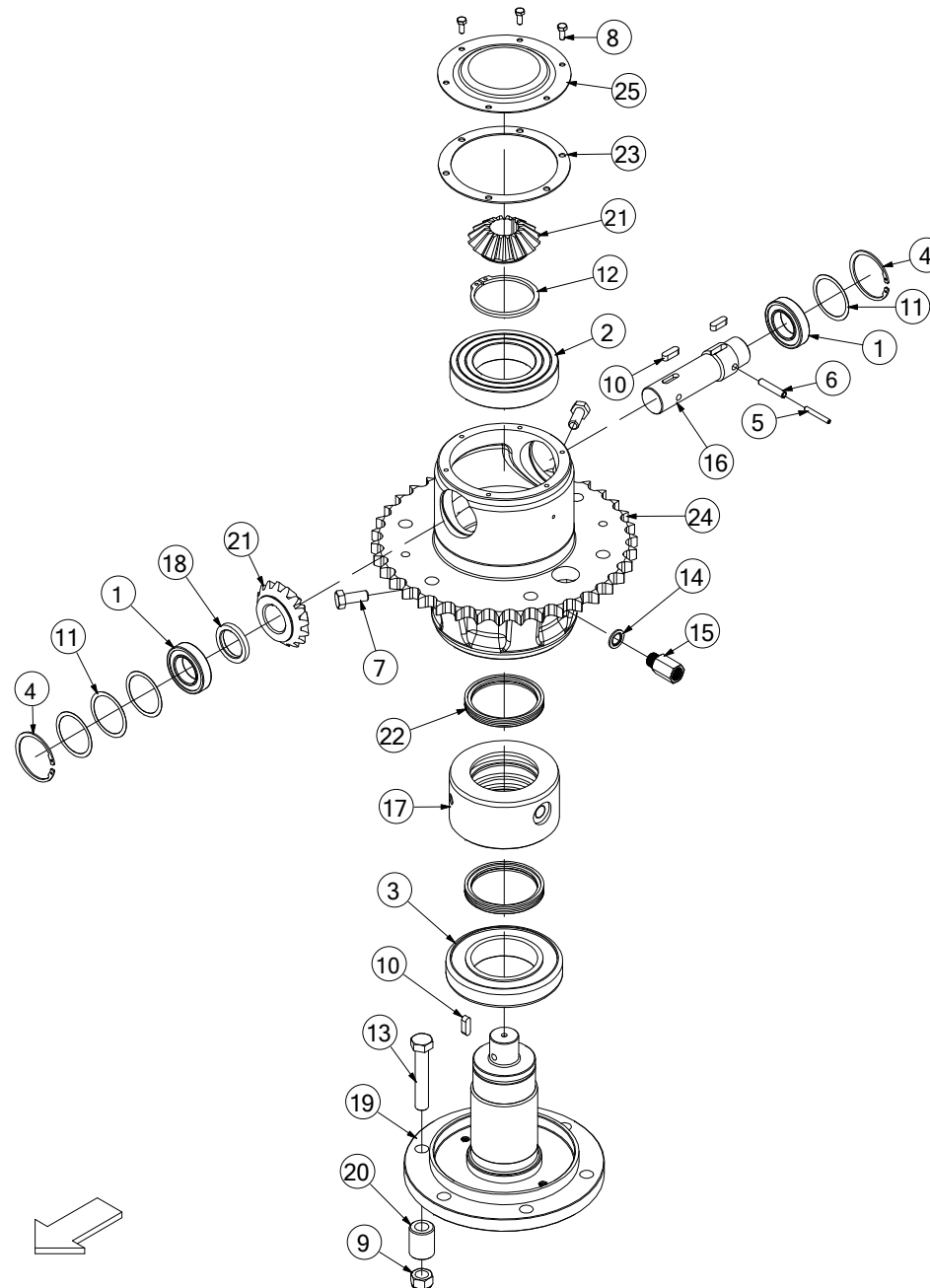
Rotary table (571)



No.	Part No	Description	Qty
1	ART00333	TABLE WELD ASSY TWIN DISPENSER	1
2	ART00005	BOBBIN AXLE SHAFT	2
USED ON 991B UP TO SERIAL No 63242 & ON 991L UP TO SERIAL No 103772			
2	CMH01183	PIN 30X280 BOBBIN AXLE	2
USED ON ALL 991HS & ON 991B FROM SERIAL No 63243 & ON 991L FROM SERIAL No 103773			
3	CPL00008	BOBBIN ASSEMBLY	2
INCLUDES BEARINGS (ITEM 4)			
4	CBR00024	BEARING 62062RS	2
5	CBR00005	BEARING PILLOW BLOCK NP1 3/4	4
6	CBR00006	BEARING FLANGE 25MM 2BOLT	1
7	CMH00021	SHAFT 25X900 8MM KEYWAYS	1
LATEST VERSION (with keyways on both ends) REPLACES CMH01244 (Which is identical, but no longer available)			
7	CMH01244	CROSS SHAFT 25X900 (991)	1
NO LONGER AVAILABLE (Replaced by latest version of CMH00021 with keyways on both ends)			
8	CMH00059	SPROCKET 3/4 PITCH 9T	1
9	CFA00033	SETSCREW M12X35 Z/P	2
10	CFA00124	NUT M12 NYLOC	2
11	CFA00024	SETSCREW M10X25 Z/P	2
12	CFA00134	WASHER MUDWING M10X38MM OD	3
13	CFA00022	SETSCREW M10X16 Z/P	2
14	CFA00154	KEY 8X7X25	1
15	CFA00038	BOLT M14X50	8
16	CFA00126	NUT M14 NYLOC	8
17	ART00004	TABLE DRIVING ROLLER	1
18	CMH00029	SHEAR BOLT FLANGE	1
19	CMH00060	SPROCKET 3/4 PITCH 28T	1
20	CBR00082	BEARING GLACIER PM 4040 SY	1
21	CZD00121	4MM L CUT & TIE SPACER Z/P	1
22	CFA00055	BOLT M8X35 Z/P	1
23	CFA00132	NUT M8 NYLOC Z/P	1
24	CGD00003	GUARD CHAIN TABLE 991	1
25	CFA00149	WASHER MUDWING M8 31.75OD	2
26	CBC00002	HAND WHEEL M8X20	2
27	ART00003	TABLE IDLE ROLLER WELD ASSY	1
28	CBE00010	BELT SINGLE 96	4
28	CBE00003	BELT SET (CBE00010) X4 (1996+)	1
29	CMH00001	BUSH 12X22X70	16
30	CFA00546	BOLT M10X85 CUP HEAD SQ Z/P	16
31	CFA00123	NUT M10 NYLOC	18
32	CFA00383	BOLT M10X70 Z/P	2
33	CFA00036	SETSCREW M12X70 Z/P	2
34	CFA00014	NUT M12	2
35	CCH00006	CHAIN KIT 12B 3/4 PITCH 79 LINK	1
36	CBC00014	PLUG BODY 16 X .08/2 MM	2
37	CBR00008	END CAP FOR 350 NP28 DOMED	3
FOR RHP TYPE BEARING BLOCKS			
37	CBR00276	END CAP FOR UCPL20928	3
38	CEL00017	MAGNET BLUE WHEEL	4
QTY IS ONLY 1 ON MANUAL MACHINES			
39	CFA00801	SETSCREW M6X45	2

No.	Part No	Description	Qty
QTY IS ONLY 1 ON MANUAL MACHINES			
40	CFA00145	WASHER MUDWING M6 32MM OD	2
QTY IS ONLY 1 ON MANUAL MACHINES			
41	CFA00131	NUT M6 NYLOC	2
QTY IS ONLY 1 ON MANUAL MACHINES			
42	CFA00155	KEY 10 X 8 X 25	1
43	CBC00008	CAP PLASTIC INSERT 75MM	2
44	CMH00224	MAGNET SPACER	1
USED ON MANUAL MACHINES ONLY			
45	CFA00251	WASHER SKM10	1

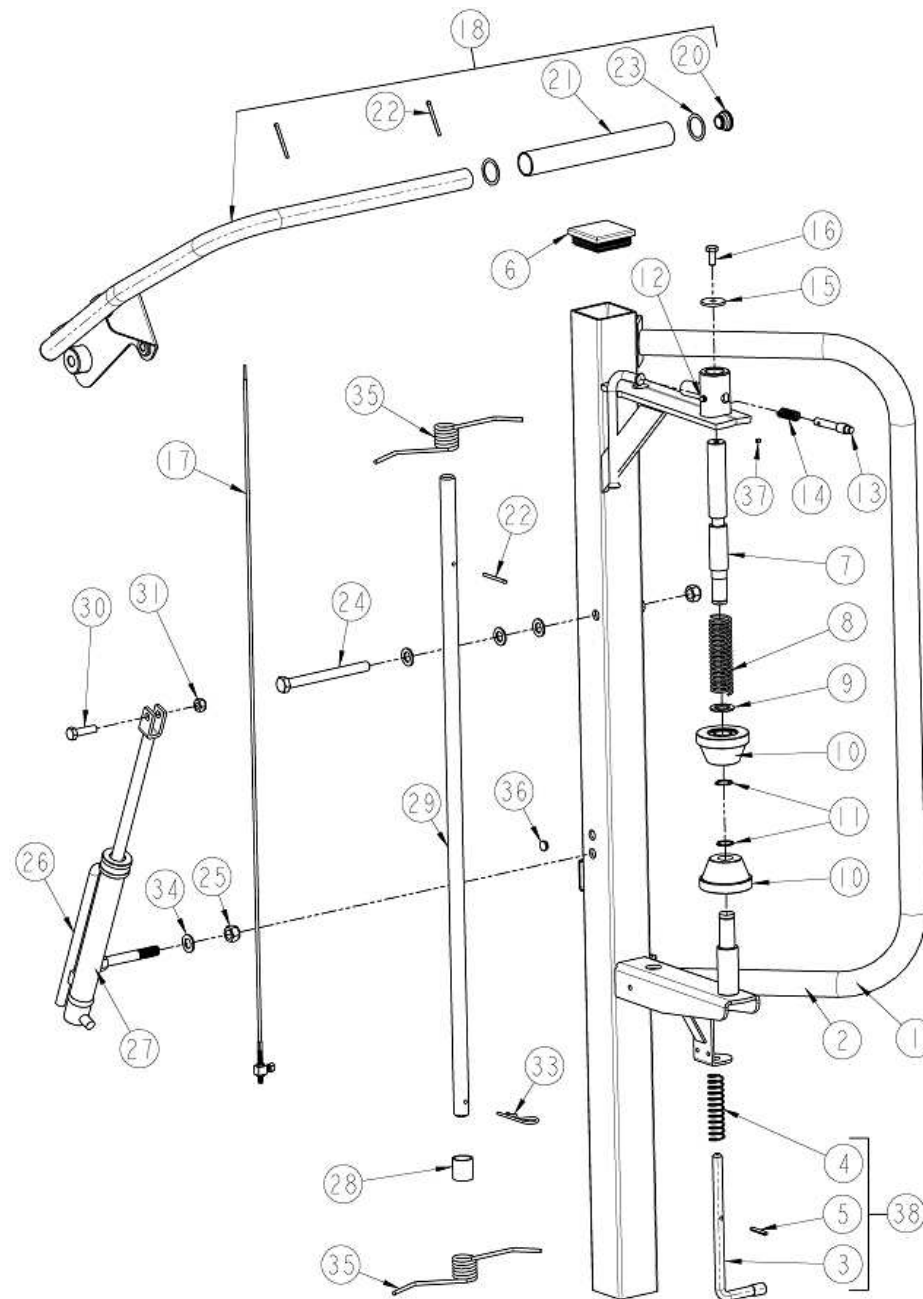
Gearbox (236)



No.	Part No	Description	Qty
0	ACH00015	GEARBOX ROUND NEW COMPLETE ASM	1
<i>(COMPLETE ASM) MACHINES PRIOR TO SERIAL No 61620 (991B) OR 103290 (991L) MUST ALSO ORDER CROSSHAFT CMH</i>			
1	CBR00001	BEARING 6007 2RS	2
2	CBR00002	BEARING 6215 2RS	1
3	CBR00003	BEARING 62162RS	1
4	CFA00002	CIRCLIP 62MM INTERNAL	2
5	CFA00006	ROLL PIN 5X40	1
6	CFA00009	ROLL PIN 8X40	1
7	CFA00032	SETSCREW M12X30 Z/P	2
8	CFA00045	SETSCREW M6X16	6
9	CFA00128	NUT M16 NYLOC	6
10	CFA00154	KEY 8 X 7 X 25	3
11	CFA00213	SHIM 50X62X0.3	4
12	CFA00704	CIRCLIP 75MM EXTERNAL HEAVY	1
13	CFA00794	BOLT M16 X 90	6
14	CHY00020	WASHER DOWTY 3/8"	1
15	CHY02001	ADAPTOR EXTENSION 3/8" BSP M/F 32mm LONG	1
16	CMH00018	SHAFT 35X150 STEPPED &2X KWAYS	1
<i>991B/991L MACHINES PRIOR TO SERIAL Nos 59780/102810 & ALL 991C MODELS MUST ALSO ORDER SHAFT CMH00021</i>			
17	CMH00032	SEAL BLOCK WRAPPER GEARBOX	1
18	CMH00064	SHIM GEARBOX	1
19	CMH00182	SHAFT 80X220 & KEYWA	1
<i>REPLACES CMH00019</i>			
20	CMH01028	BUSH 17X30X39	6
21	ACH00031	KIT BEVEL GEARS	1
<i>UP TO SERIAL No 63791 (KIT INCLUDES GEARS, ROLL-PINS & KEY)</i>			
21	ACH03007	991 BEVEL GEAR KIT FROM 63792	1
<i>FROM SERIAL No 63792 (KIT INCLUDES GEARS, SHIMS & KEYS)</i>			
22	CSE00001	SEAL GEARBOX 991	2
23	CSE00006	GASKET 128X158&6X8MM C.HOLES	1
24	CTP00112	GEARBOX HOUSING CAST 991 SERIES	1
<i>DIRECT REPLACEMENT FOR GEARBOX HOUSING WELDMENT ACH00034</i>			
25	CZB02365	GEARBOX COVER PLATE	1
26	ACH00029	KIT GEARBOX REPAIR	1
<i>NOT SHOWN (KIT INCLUDES 2X ITEMS 1, 4, 10, 21, 22 +SHIMS & 1X ITEMS 2, 3, 5, 6, 12, 16, 19, 23 & 25)</i>			

No.	Part No	Description	Qty
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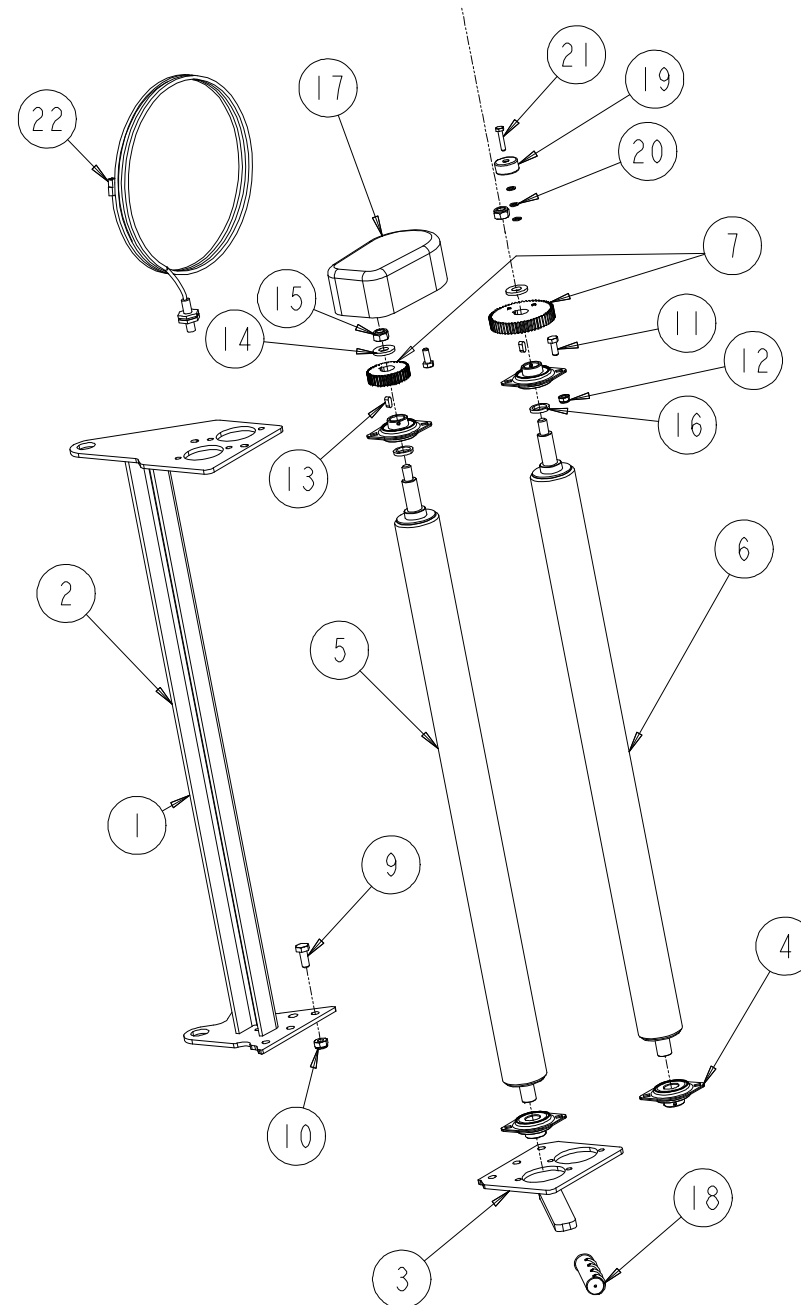
Dispenser post (291)



No.	Part No	Description	Qty
1	ADP00111	DISPENSER LINKAGE COMP ASY	1
2	ADP00048	DISPENSER POST WELD ASY.	1
3	N/A	SEE ITEM 38	0
4	CSG00039	SPRING COMP 2.15X 21X 125X 14	1
5	CFA00073	ROLL PIN 6X40	1
6	CBC00003	CAP PLAS INSERT SQ 80X80	1
7	CMH00195	PIN 30X280 STEPPED Z/P	1
8	CSG00009	SPRING COMP 2.95X37X197X12	1
9	CZC00112	3MM L DISPENSER SPACER	1
10	ADP00009	COIL ROLLER + BEARING DIS POST	2
10a	CPL00126	ROUND INSERT (RIBBED) 50MM	1
CAP INSERT FOR COIL ROLLER ADP00009			
11	CFA00001	CIRCLIP 25MM EXTERNAL Z/P	2
12	CFA00118	GREASE NIPPLE M8X1.25 STRAIGHT	1
13	CMH00197	PIN 16X84 STEPPED Z/P	1
14	CSG00010	SPRING COMP 1.625X16X40X8	1
15	CZD00118	4MM L CUT& TIE SPACER	1
16	CFA00024	SETSCREW M10X25 Z/P	1
17	CFA00206	CABLE ROLLER RELEASE DISP/POST	1
18	ADP00006	PULL DOWN ARM LINKAGE	1
19	CFA00118	GREASE NIPPLE M8X1.25 STRAIGHT	1
20	CBC00010	CAP PLAS INSERT 1"	2
21	CPL00026	1 1/4" PIPE 40ODX35ID	1
22	CFA00013	SPLIT PIN 5X50 Z/P	2
23	CFA00512	SHIM 35X45X1.0 Z/P	2
24	CFA00061	BOLT M16X170 Z/P	1
25	CFA00128	NUT M16 NYLOC	2
26	CRA00035	RAM PULL DOWN ARM LINKAGE	1
27	CSE00035	SEAL KIT PULL DOWN ARM LINKAGE	1
28	CXT00104	TUBE 33.7X3X35	1
29	ADP00005	DISPENSER POST SHAFT	1
30	CFA00079	BOLT M12X45	1
31	CFA00124	NUT M12 NYLOC	1
32	CFA00013	SPLIT PIN 5X50 Z/P	1
33	CFA00004	R-CLIP 4MM	1
34	CFA00140	WASHER FLAT 16MM Z/P	4
35	CSG00003	SPRING KIT [2 PER KIT]	1
36	CBC00014	PLUG BODY 16 X .08/2 MM	2
37	CFA00208	GRUBSCREW M6X6 Z/P	1
38	ADP00114	LATCH KIT FILM HOLDER	1

No.	Part No	Description	Qty
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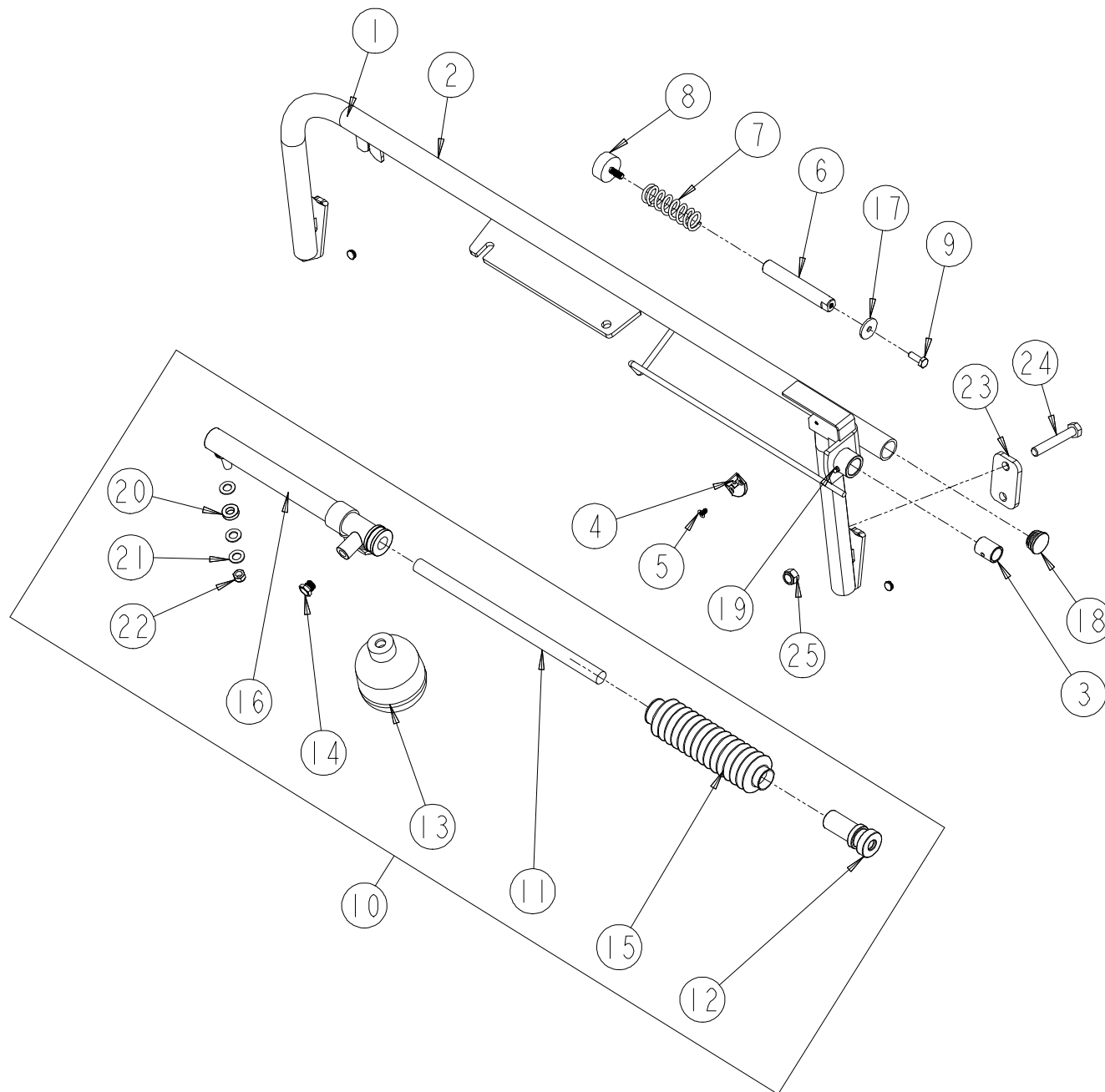
Dispenser (239)



No.	Part No	Description	Qty
1	ADP00015	FILM DISPENSER ASSEMBLY 750MM	1
2	ADP00010	DISPENSER FRAME WELD ASY.	1
3	ADP00004	DISPENSER BOTTOM PLATE	1
4	CBR00004	BEARING 20MM 2 BOLT P/S FLANGE	4
5	CMH00034	ROLLER DISPENSER PRIMARY ALU	1
6	CMH00035	ROLLER DISPENSER SECONDARY ALU	1
7	ADP00018	KIT DISPENSER GEARS 70%	1
70% STANDARD			
7	ADP00019	KIT DISPENSER GEARS 55%	1
55% OPTIONAL			
7	ADP00085	KIT DISPENSER GEARS 32%	1
32% OPTIONAL			
9	CFA00024	SETSCREW M10X25 Z/P	3
10	CFA00123	NUT M10 NYLOC	3
11	CFA00052	SETSCREW M8X20 Z/P	10
12	CFA00132	NUT M8 NYLOC Z/P	8
13	CFA00153	KEY 6X6X15	2
14	CFA00139	WASHER FLAT 12MM H/D Z/P	2
15	CFA00124	NUT M12 NYLOC	2
16	CZD00114	4MM L DISPENSER SPACER	2
17	CGD00001	GUARD DISPENSER GEARS	1
18	CBC00012	CAP PLASTIC HANDGRIP 7/8	1
19	CEL00017	MAGNETBLUEWHEEL	1
20	CFA00144	WASHER FLAT 6MM Z/P	3
21	CFA00047	SETSCREW M6X30 Z/P	1
22	CEL00036	SENSOR CABLE 5M	1
CEL00215 UNIVERSAL MAGNETIC SENSOR IS A SUITABLE REPLACEMENT FOR THIS PART. ALL McHALE MAGNETIC SEN			

No.	Part No	Description	Qty
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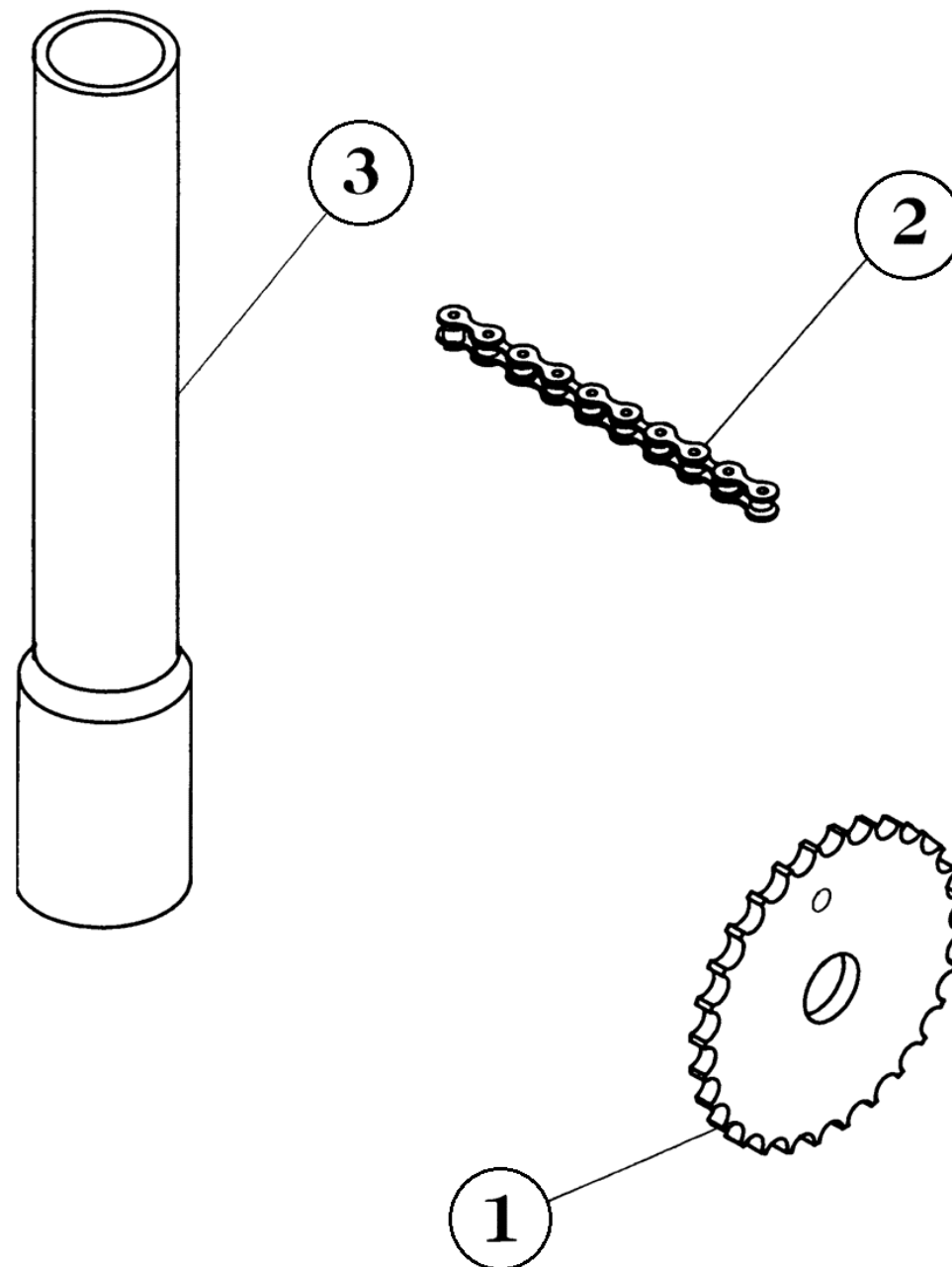
Cut & Hold (240)



No.	Part No	Description	Qty
1	ACT00006	CUT&HOLD 991 FULL ASSEMBLY	1
2	ACT00005	CUT&HOLD FRAME 991	1
3	CBR00016	BEARING OLITE 25X32X40	1
4	CKN00001	KNIFE CUT& HOLD ASY	1
REPLACED BY ACT00061 (Safety knife kit containing 5 blades)			
4	ACT00061	KNIFE CUT& HOLD KIT ASY	1
(Safety knife replacement kit containing 5 blades) REPLACES CKN00001			
5	CFA00044	BOLT M6X12 CSK	2
6	CMH00023	PIN 25X159 C.PLUNGER C&T	1
7	CSG00004	SPRING COMP 4.88 X 36 X 150 X 10.250	1
8	CBE00002	BUFFER RUBBER 50X21 M10X28	1
9	CFA00025	SETSCREW M10X30	1
10	CRA00021	RAM CUT&HOLD 32X20 991B	1
11	CRA00107	RAM ROD CUT&HOLD 991	1
12	CRA40021	RAM ROD END CUT&HOLD	1
13	CVA03010	ACCUMULATOR 0.7 LITRE 30 BAR	1
14	CHY02004	PLUG 3/8 BSP MALE	1
15	CBE00006	GAITOR CUT&HOLD RUBBER	1
16	CSE00021	SEAL KIT CUT&HOLD	1
17	CZD00118	4MML CUT&TIE SPACER	1
18	CBC00005	CAP PLASTIC INSERT 42.4MM RND	1
19	CFA00118	GREASE NIPPLE M8X1.25 STRAIGHT	1
20	CMH00093	BUSH 14X30X8	1
21	CFA00222	WASHER FLAT 14MM Z/P	4
22	CFA00126	NUT M14 NYLOC	2
23	CZH00135	10MM L CUT & TIE	2
24	CFA00040	BOLT M16X100 Z/P	4
25	CFA00128	NUT M16 NYLOC	4

No.	Part No	Description	Qty
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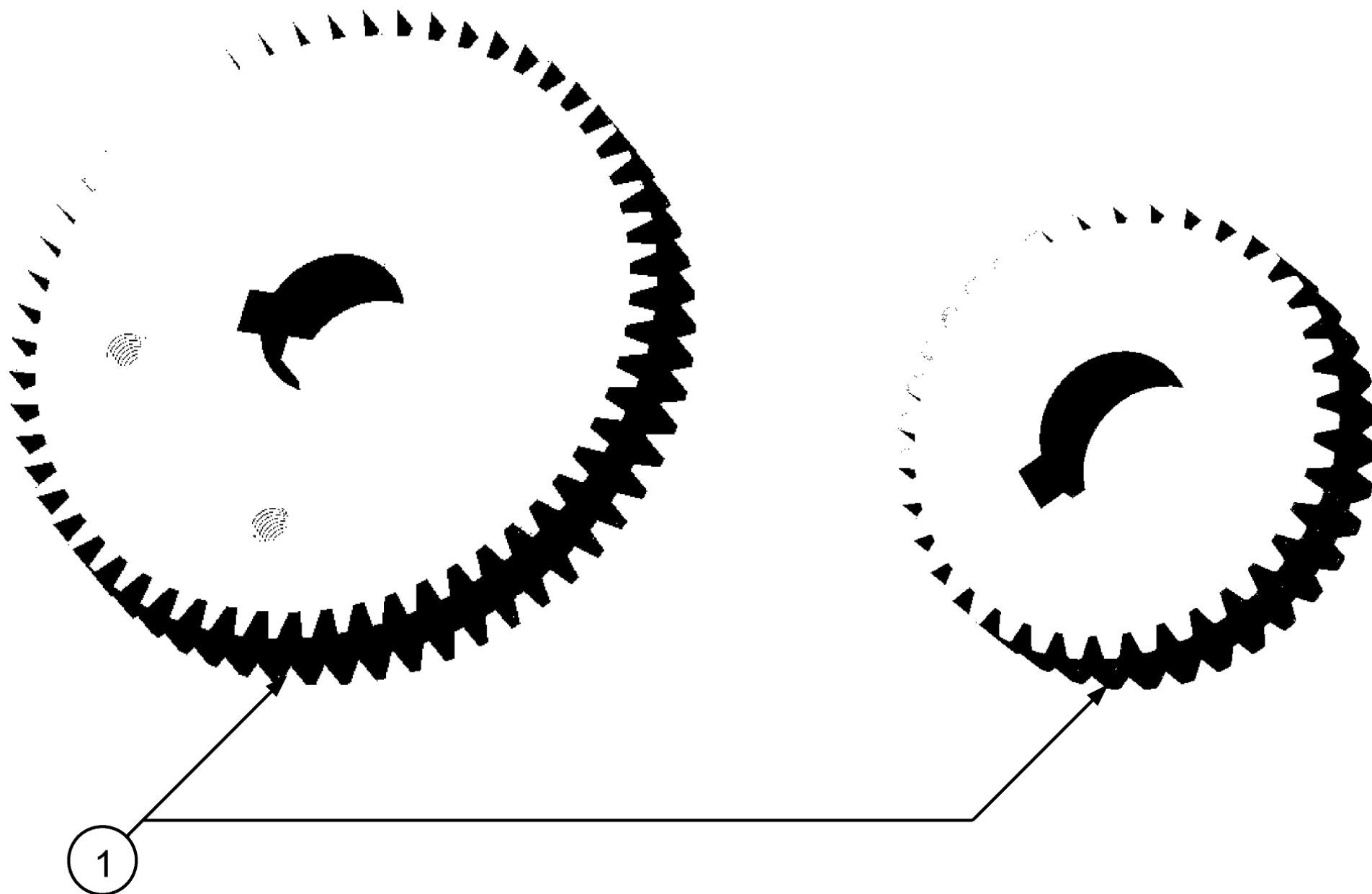
500mm conversion kit (244)



No.	Part No	Description	Qty
0	ADP00022	500MM CONVERSION KIT	1
1	CMH00058	SPROCKET 45 TOOTH	1
2	CCH00001	CHAIN EXT PIECE 12B 3/4" PITCH 9 LINKS	1
3	CPL00006	PLASTIC PIPE	1

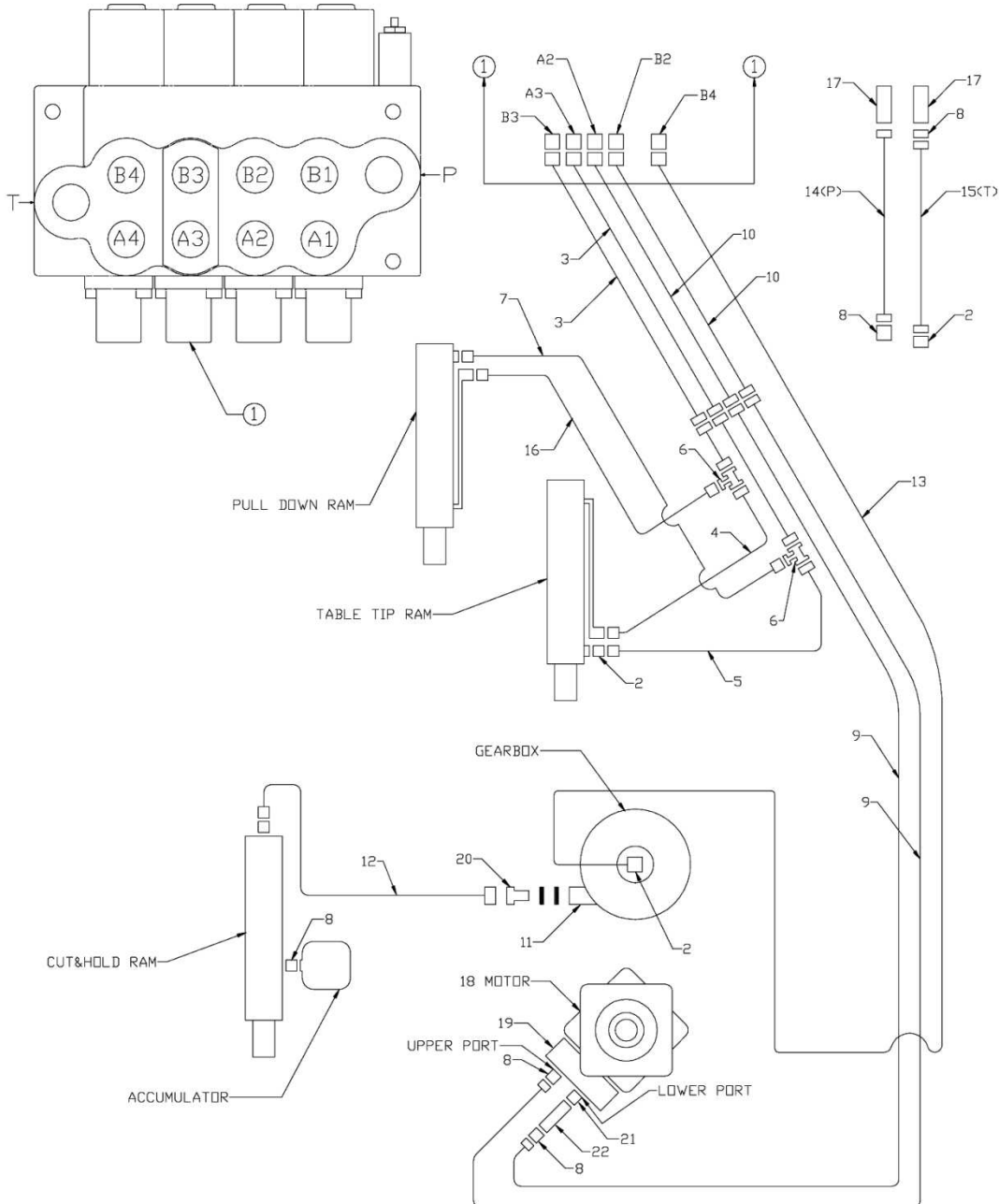
No.	Part No	Description	Qty
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Dispenser gears (262)



No.	Part No	Description	Qty
1	ADP00018	KIT DISPENSER GEARS 70%	1
70% GEAR OPTION: STANDARD			
1	ADP00019	KIT DISPENSER GEARS 55%	1
55% GEAR OPTION (HOT CLIMATES)			
1	ADP00085	KIT DISPENSER GEARS 32%	1
32% ENDURO PLASTIC OPTION			

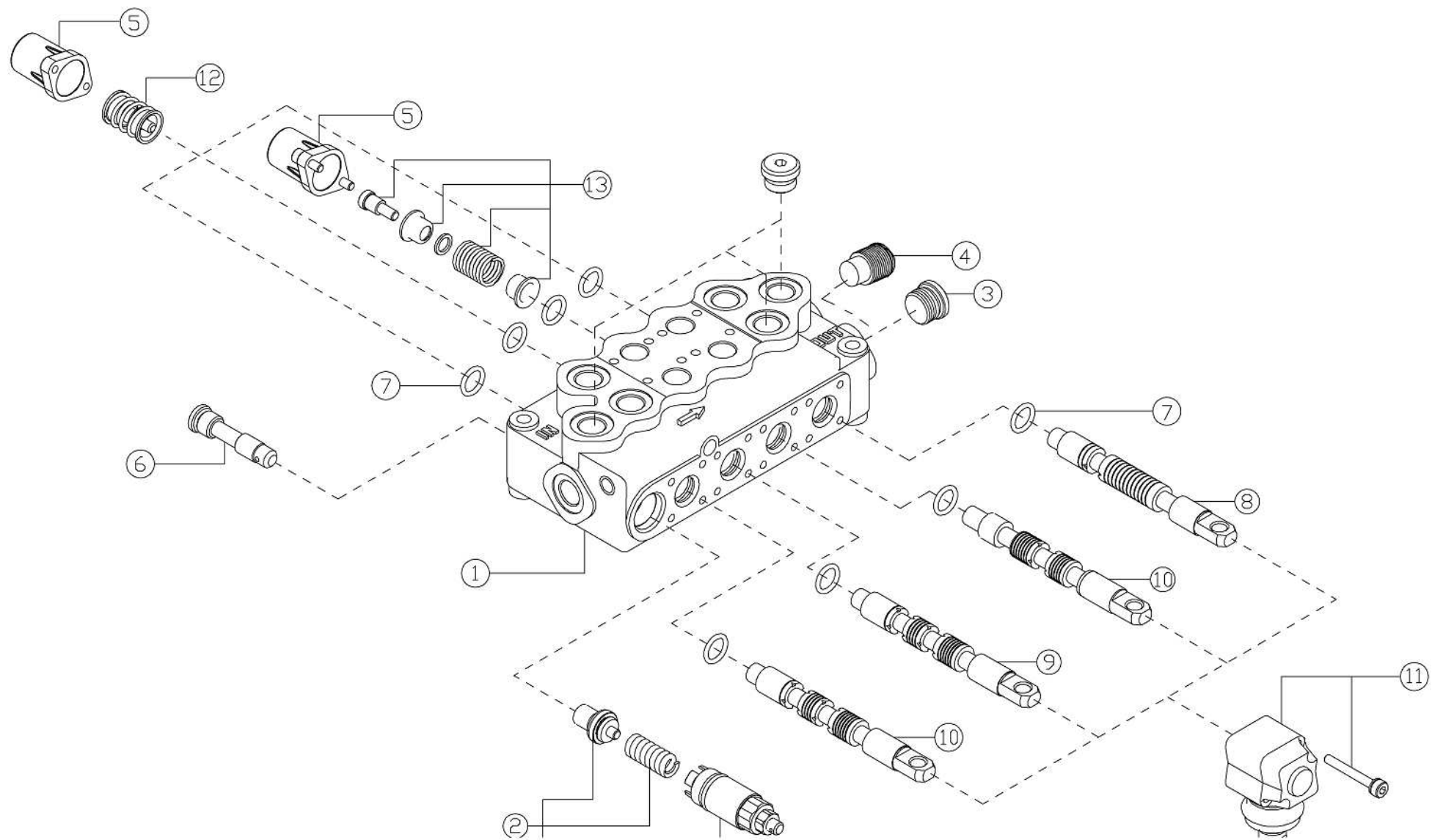
No.	Part No	Description	Qty
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No.	Part No	Description	Qty
1	CVA00010	VALVE CTL 4 BANK MAN LINKAGE	1
2	CHY02002	ADAPTOR 3/8" BSP M-M	13
3	CHY00171	HOSE 3/8" M/F 1250 ST/ST	2
4	CHY00168	HOSE 3/8" F/F 1250 ST/ST	1
5	CHY00169	HOSE 3/8" F/F 1320 ST/ST	1
6	CHY02097	T PIECE 3/8" M-M-F	2
7	CHY00176	HOSE 3/8" F/F 1200 90/90	1
8	CHY02008	ADAPTOR 1/2" M 3/8" M	7
9	CHY00170	HOSE 3/8" F/F 3450 ST/90	2
10	CHY00174	HOSE 3/8" M/F 1000 ST/ST	2
11	CHY02098	ADAPTOR 3/8" BSP M-F	1
12	CHY00087	HOSE 3/8"X1220 BANJO 90	1
13	CHY00167	HOSE 3/8" F/F 4650 ST/90	1
14	CHY00173	HOSE 1/2" M/F 1300 ST/90	1
15	CHY00172	HOSE 3/8" F/F 1300 ST/90	1
16	CHY00175	HOSE 3/8" F/F 1200 ST/90	1
17	CHY02015	QR 1/2" MALE PARKER 7814G4X4	2
18	CMT00002	MOTOR 250CC 4BOLT 1 1/4"TAPE RE	1
19	CVA00011	VALVE RELIEF CL OMS100&130BAR	1
20	CHY00098	ADAPTOR 3/8" BANJO BOLT	1
21	CHY02013	ADAPTOR 1/2" BSP M/M	1
22	CVA00637	VALVE FLOW CTRL 1/2" 22 L/MIN	1
OPTION - SPEED LIMITER VALVE			

No.	Part No	Description	Qty
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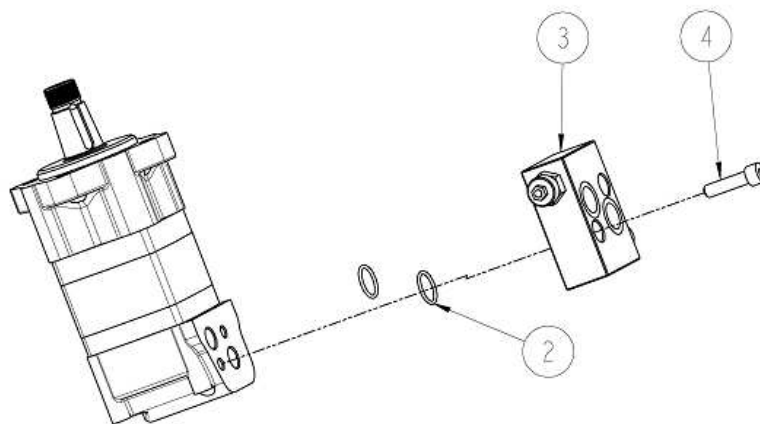
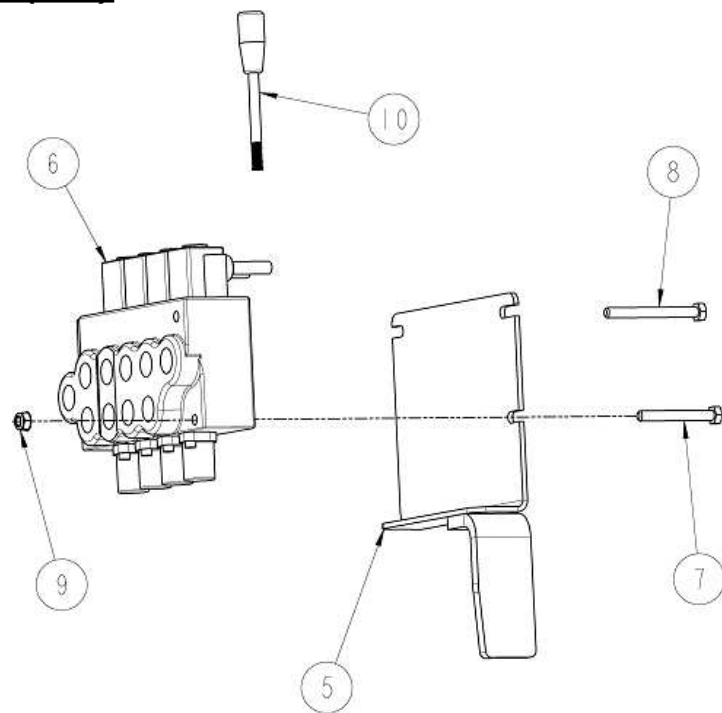
991LB Hydraulic control valve (296)



No.	Part No	Description	Qty
	CVA00010	VALVE CTL 4 BANK MAN LINKAGE	1
1	CVA00232	SD5/4-P/BSP/PT(s2-3) BODY	1
2	CVA00043	RELIEF VALVE FOR SD5 VALVE	1
3	CVA06003	OPEN CENTRE PLUG MANUAL VALVE	1
4	CVA06001	CLOSED CENTRE PLUG	1
5	CVA00044	SPOOL END CAP SD5	1
6	CVA00219	VR/SD5 KIT	1
7	CSE00064	SEAL KIT 4 BANK MANUAL VALVE	1
8	CVA00209	4A SD5 SPOOL	1
9	CVA00210	1CEX/SD5 SPOOL	1
10	CVA00106	SPOOL SD5 DOU ACTING	2
11	CVA00023	LEVER PIVOT BOX SD5 M8	4
12	CVA00233	SPOOL SPRING KIT	3
13	CVA00234	SPOOL SPRING KIT	1

No.	Part No	Description	Qty
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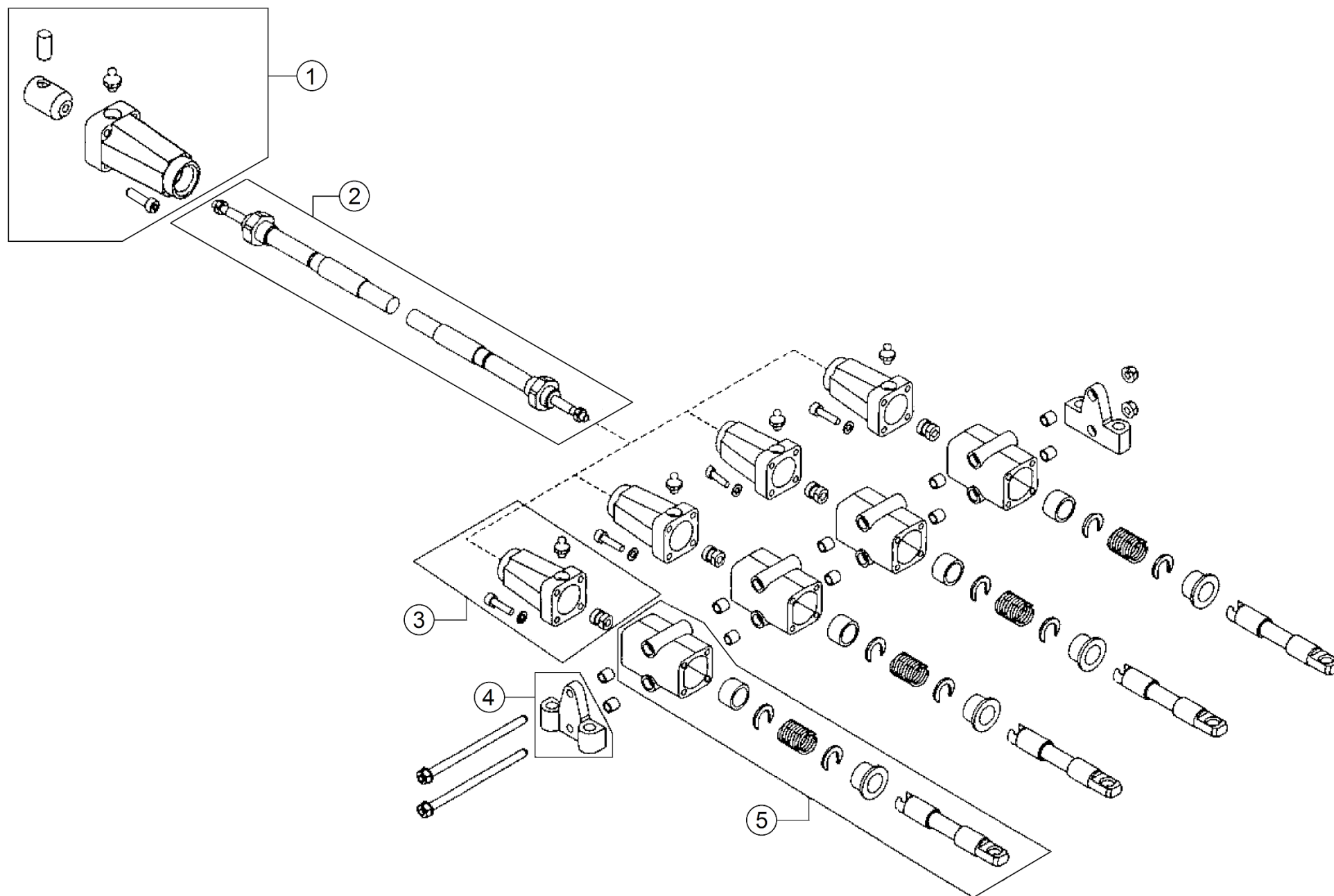
991LB Hydraulic components (297)



No.	Part No	Description	Qty
1	CMT00002	MOTOR 250CC 4BOLT I 1/4 TAPERED	1
2	CSE00009	SEAL O RING 27 ODX2.6 SECT 705	2
3	CVA00011	VALVE RELIEF CL OMS100&130 BAR	1
4	CFA00179	SOC CAP SCREW M10X40	2
5	ACH00004	PLATE MANUAL VALVE	1
6	CVA00010	VALVE CTL 4 BANK MAN LINKAGE	1
7	CFA00056	BOLT M8X65 Z/P	2
8	CFA00057	SETSCREW M8X80 Z/P	1
9	CFA00132	NUT M8 NYLOC Z/P	3
10	CVA06002	VALVE HANDLE M8	4

No.	Part No	Description	Qty
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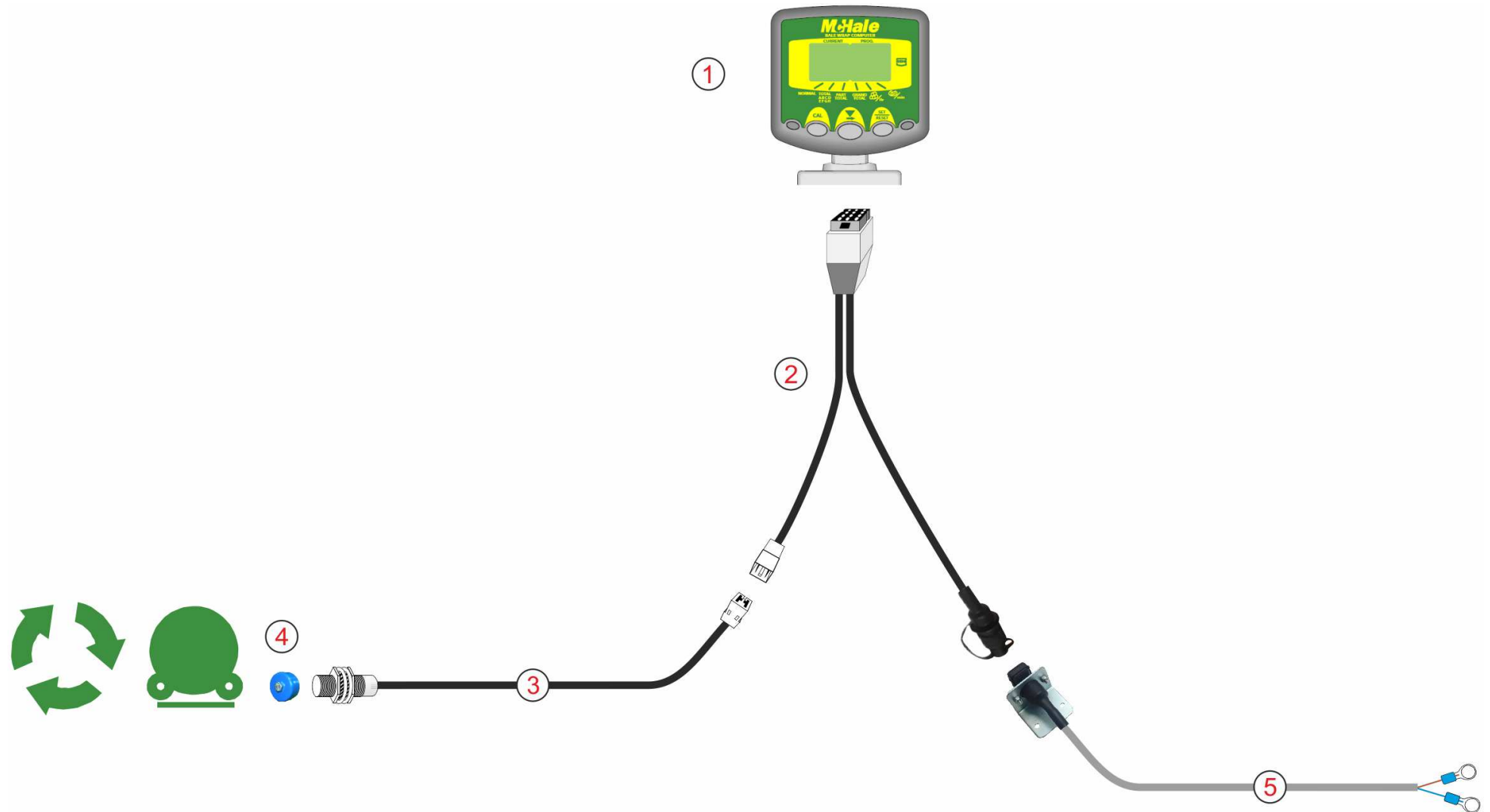
Hydraulic valve cables 991BC-991LB (254)



No.	Part No	Description	Qty
0	CVA00007	CABLE KIT COMPLETE 3M 4 BANK <i>3.0M LONG (INCLUDES ITEMS 1 TO 5)</i>	1
0	CVA00390	CABLE KIT COMPLETE 3.5M 4 BANK <i>3.5M LONG (INCLUDES ITEMS 1 TO 5)</i>	1
0	CVA00272	CABLE KIT COMPLETE 4M 4 BANK <i>4.0M LONG (INCLUDES ITEMS 1 TO 5)</i>	1
1	CVA00008	CABLE TO VALVE MODIFICATION KIT	4
2	CVA00017	CABLE 2.5M 4CAV70 2500 <i>2.5M LONG</i>	4
2	CVA00014	CABLE 3M 4CVA70 3000 <i>3.0M LONG</i>	4
2	CVA00016	CABLE 3.5M 4CVA60 3500 <i>3.5M LONG</i>	4
2	CVA00285	CABLE 4M 4CVA70 4000 <i>4.0M LONG</i>	4
2	CVA00015	CABLE 4.5M 4CAV70 4500 <i>4.5M LONG</i>	4
3	CVA00006	CABLE TO REMOTE MODIFICATION KIT	4
4	CVA00041	CABLE REMOTE END CLAMP	2
5	CVA00042	CABLE REMOTE SPOOL C/W HOUSING	4

No.	Part No	Description	Qty
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Electrical 991B & 991LB (248)



No.	Part No	Description	Qty
1	CEL00174	CONTROL BOX WIZARD TRAILED	1
1a	CEL00369	WIZARD FRONT COVER (WITHOUT OVERLAY)	1
2	CEL00187	LOOM WIZARD 991B+LB+TS+LS	1
3	CEL00036	SENSOR CABLE 6M UNARMED UNIVERSAL	1
4	CEL00017	MAGNET BLUE WHEEL	1
5	CEL00010	EURO SOCKET TO BATTERY POWER LEAD	1

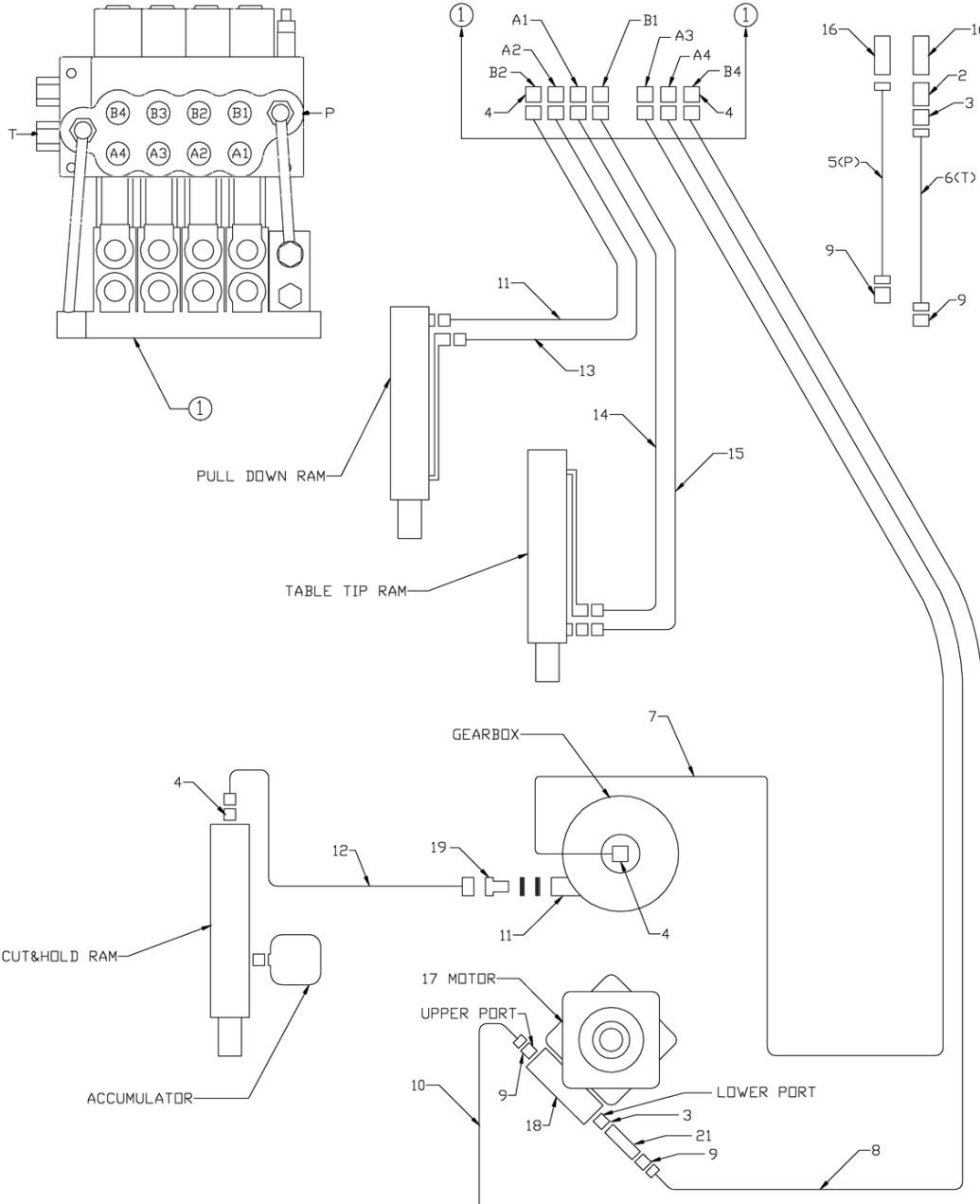
No.	Part No	Description	Qty
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Wizard control unit (1077)



No.	Part No	Description	Qty
1	CEL00174	CONTROL BOX WIZARD TRAILED	1
1	CEL00206	CTRL WIZARD 991 RECON	1
1	CEL00255	WIZARD CONTROL UNIT F5 RANGE	1
1	CEL00641	CTRL WIZARD F5 RECON	1
2	CEL00337	OVERLAY WIZARD 991	1
3	CEL00338	OVERLAY WIZARD F5	1
4	CEL00305	WIZARD CONTROL BOX SCREEN	1
5	CEL00370	WIZARD BUTTON MEMBRANE	1
6	CEL00323	BUZZER WIZARD	1
7	CEL00064	LOOM COBO WHITE CON EURO LEAD	1
8	CEL00010	EURO SOCKET TO BATT POWER LEAD	1
9	CEL00254	RDS EXPERT UPLOAD KIT	1
10	CEL00089	WIZARD SOFTWARE UPDATE CABLE	1
11	CEL00031	BAT POWER LEAD CTRL BOX DIRECT	1
12	CPL00007	VACUUM PAD FLAT BACK	1
13	KST00070	CONTROL UNIT MOUNTING BRACKETS	1
14	CEL00639	WIZARD MOUNTING BRACKET	1
15	CEL00364	WIZARD CTRL MALE CRIMP	1
16	CEL00363	12WAY WIZARD CTRL CONNECTOR	1

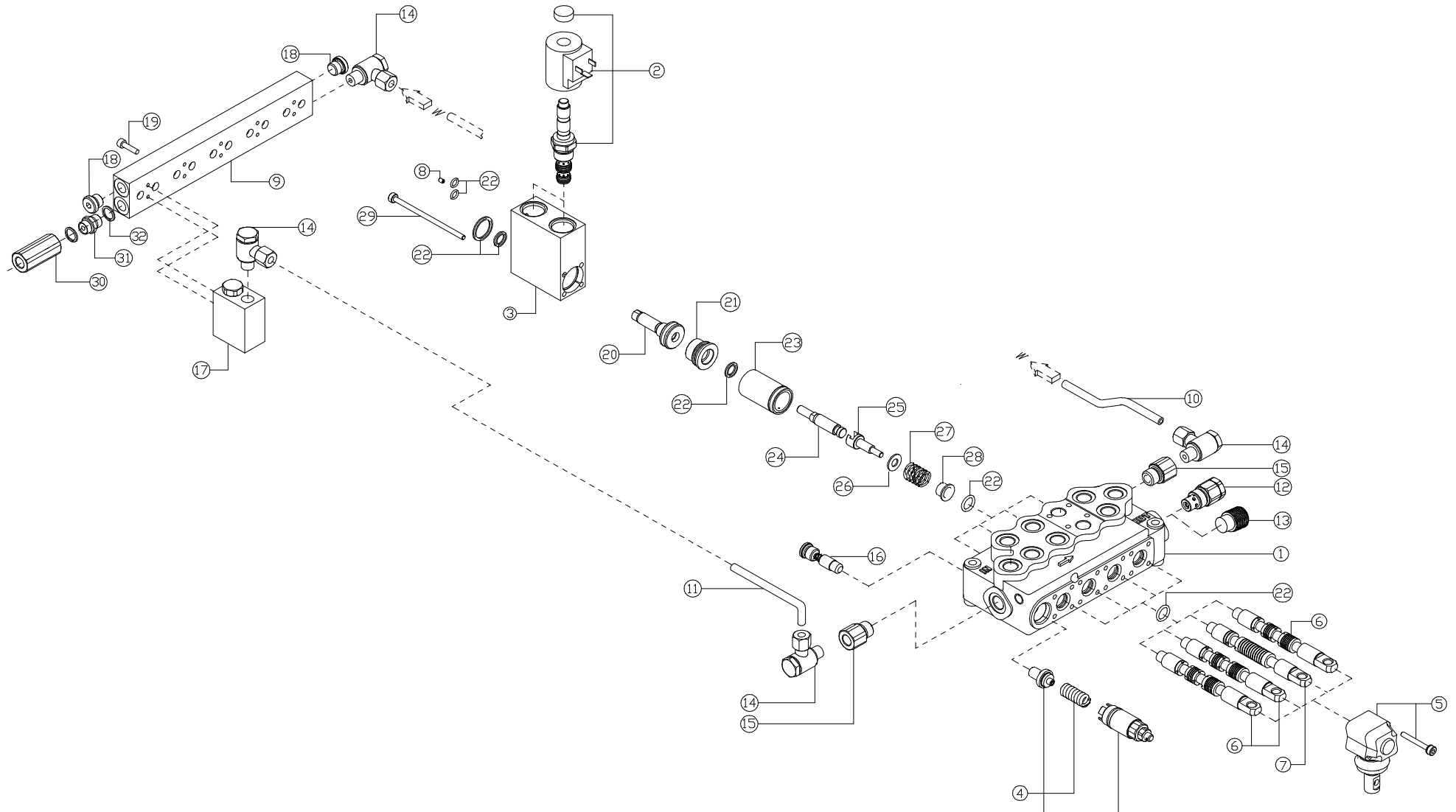
No.	Part No	Description	Qty
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No.	Part No	Description	Qty
1	CVA00086	VALVE CTL 4BANK ELEC LBER+LSR	1
2	CVA02999	VALVE NON RET 1/2 0.5BAR	1
3	CHY02013	ADAPTOR 1/2 BSP M/M	1
4	CHY02002	ADAPTOR 3/8 BSP M-M	11
5	CHY00177	VALVE FEED 991LBER	1
6	CHY00178	VALVE RETURN TO TANK 991LBER	1
7	CHY00179	VALVE TO GEARBOX 991LBER	1
8	CHY00180	MOTOR RETURN HOSE	1
9	CHY02008	ADAPTOR 1/2 M 3/8 M	4
10	CHY00181	MOTOR FEED HOSE	1
11	CHY00182	DISPENSER ARM RETURN HOSE	1
12	CHY00183	DISPENSER ARM FEED HOSE	1
13	CHY00087	GEARBOX TO CUT & HOLD HOSE	1
14	CHY00184	TABLE TIP FEED HOSE	1
15	CHY00185	TABLE TIP RETURN HOSE	1
16	CHY02015	QR 1/2 MALE SHIELDED POPPET	2
17	CMT00002	MOTOR 250CC 4BOLT 1 1/4 TAPERED	1
18	CVA03000	VALVE BLOCK SLOW SPEED DANFOSS	1
19	CHY00098	ADAPTOR 3/8 BANJO BOLT	2
21	CVA00637	VALVE FLOW CTRL 1/2 22 L/MIN	1
OPTION - SPEED LIMITER VALVE			

No.	Part No	Description	Qty
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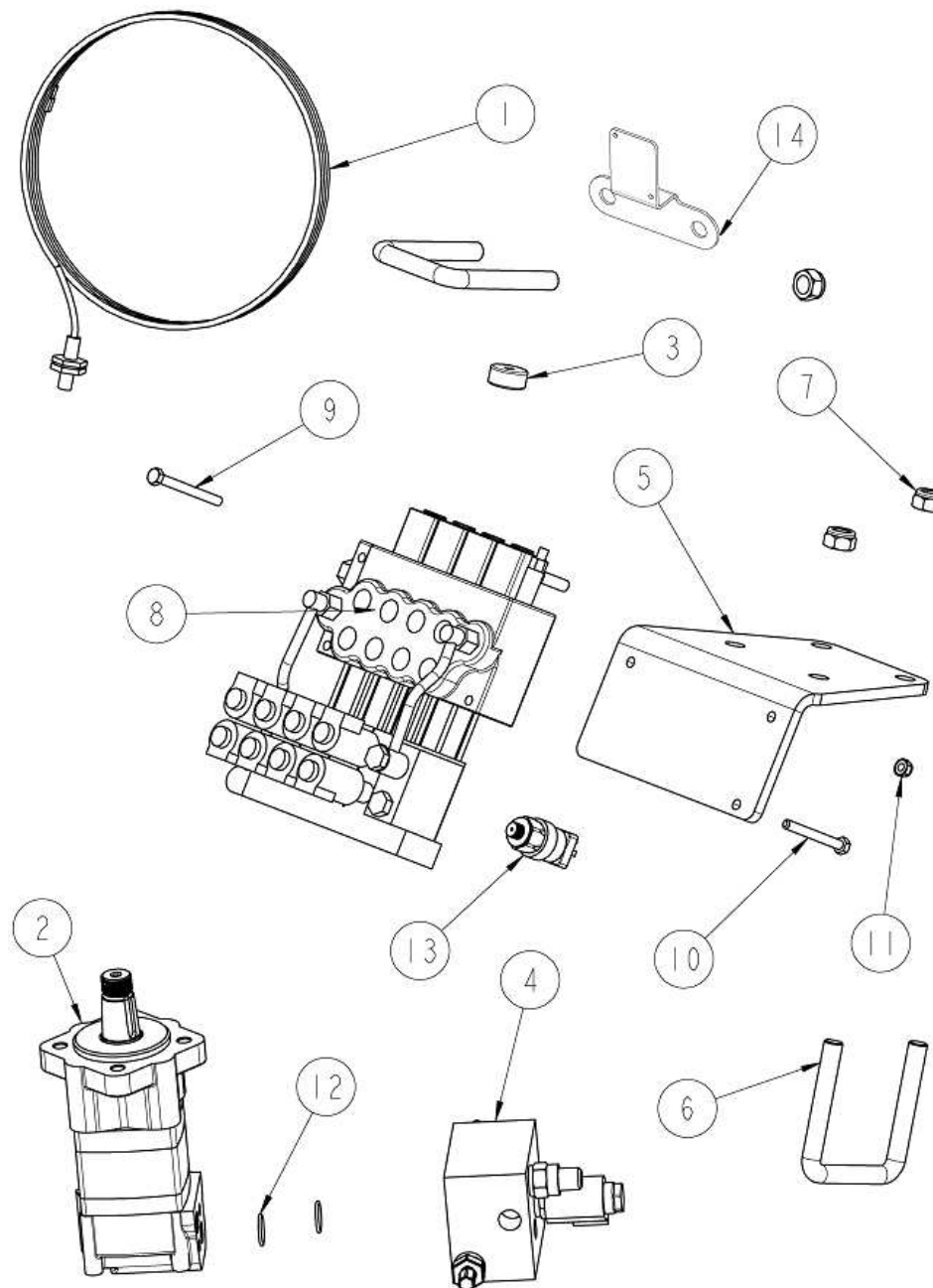
Hydraulic control valve (300)



No.	Part No	Description	Qty
0	CVA00086	VALVE CTRL 4BANK ELEC LBER+LSR ASM	1
1	CVA00215	SD5 VALVE BLOCK	1
2	CVA00045	CTE+SOLENOID ELEC VALVE	8
2a	CVA00352	12V DC SOLND COIL FOR CVA00045	AR
3	CVA00046	VALVE BLOCK SOLENOID ELEC	4
4	CVA00043	VALVE RELIEF FOR SD5	1
5	CVA00023	LEVER PIVOT BOX SD5 M8	4
6	CVA00106	SPOOL SD5 DBL ACTING	3
7	CVA00208	SPOOL CUT & HOLD 991B	1
CVA00214 CAN ALSO BE USED AS A DIRECT REPLACEMENT			
8	CFA00568	M6X4.5-FC=1 SCREW	4
9	CVA00047	ALU MANIFOLD ELEC CTL VALVE	1
10	CVA00235	CONNECTING PIPE LBER VALVE	1
11	CVA00236	CONNECTING PIPE LBER VALVE	1
12	CVA06004	PLUG OPEN CTR ELEC VALVE	1
13	CVA06001	PLUG CLOSE CTR	1
14	CHY02020	ADAPTOR 1/4 BANJO ASY COMP	4
15	CVA00218	G3/8 - G1/4 JOINT	2
16	CVA00219	CHECK VALVE 991B SERIES VALVE	1
17	CVA00220	PRESSURE CONTROL BLOCK 991BE	1
18	CVA00176	PLUG BSP 1/4 ALLEN HD +SEAL	3
19	CFA00261	SETSCREW M5X25 CSK HEX SS	10
20	CVA00226	PISTON SD5 SERVO	4
21	CVA00227	SEAL GLAND SD5 SERVO	4
22	CSE00065	SEAL KIT 4 BANK ELEC (SINGLE)	4
23	CVA00228	SPACER SD5 SERVO	4
24	CVA00229	ROD SD5 SERVO	4
25	CVA00230	CONNECTING ROD SD5 SERVO	4
26	CFA00566	WASHER SD5 SERVO	4
27	CSG00043	SPRING SD5 SERVO	4
28	CVA00231	CUP SD5 SERVO	4
29	CFA00567	M5 X 100 _8.8 UNI 5931SCREW	16
30	CVA03009	VALVE DUMP 60 BAR	1
31	CHY02010	ADAPTOR 1/4 BSP M/M	1
32	CHY00015	WASHER DOWTY 1/4	2

No.	Part No	Description	Qty
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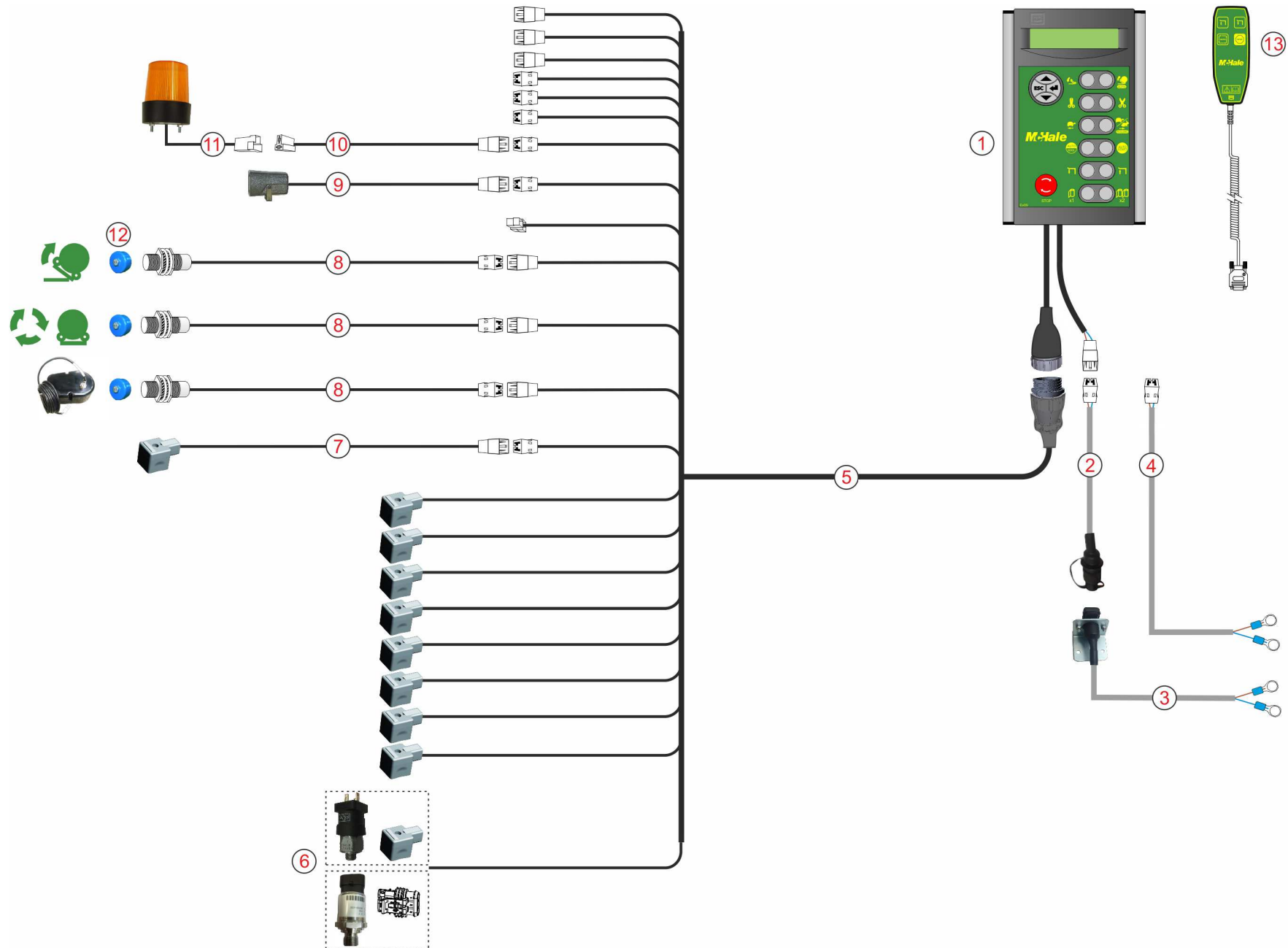
991LBER- 995LSR Hydraulic components (301)



No.	Part No	Description	Qty
1	CEL00036	SENSOR CABLE 5M	3
<i>CEL00215 UNIVERSAL MAGNETIC SENSOR IS A SUITABLE REPLACEMENT FOR THIS PART. ALL McHALE MAGNETIC SEN</i>			
2	CMT00002	MOTOR 250CC 4BOLT	1
3	CEL00017	MAGNETBLUEWHEEL	6
4	CVA03000	VALVE BLOCK SLOW SPEED DANFOSS	1
5	CZH00224	0MM L LINKAGE VALVE PLATE	1
6	CFA00039	U BOLT M 16X80X80 ZIP	3
7	CFA00128	NUT M16 NYLOC	6
8	CVA00086	VALVE CTL 4BANK ELEC LBER+LSR	1
9	CFA00057	SETSCREW M8X80 ZIP	1
10	CFA00342	SETSCREW M8X70 Z/P	2
11	CFA00132	NUT M8 NYLOC Z/P	3
12	CSE00009	SEAL O RING 270DX2.6 SECT 705	2
13	CEL00008	SWITCH PRESSURE 2000PS	1
<i>USED ON 991LBER UP TO SERIAL No 103778 & ON 995LSR UP TO SERIAL No 200689</i>			
13	CEL01525	ELECTRONIC PRESSURE SWITCH	1
<i>USED ON 991LBER FROM SERIAL No 103779 & ON 995LSR FROM SERIAL No 200690</i>			
14	CZC04333	RECEIVER BRACKET	1

No.	Part No	Description	Qty
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991LBER-TBER & 995LSR-TSR Electrical components (302)



No.	Part No	Description	Qty
1	CEL00071	CTLR AUTO EXPERT TRAILED	1
2	CEL00064	EURO PLUG POWER LEAD	1
3	CEL00010	EURO SOCKET TO BATT POWER LEAD	1
4	CEL00031	BAT POWER LEAD CTRL BOX DIRECT	1
5	CEL00087	LOOM AUTO ELECTRONIC 37 PIN	1
<i>USED ON 991LBER-TBER UP TO SERIAL No 103778 & ON 995LSR-TSR UP TO SERIAL No 200689</i>			
5	CEL01524	MAIN LOOM 991/995 MK2	1
<i>USED ON 991LBER-TBER FROM SERIAL No 103779 & ON 995LSR-TSR FROM SERIAL No 200690</i>			
6	CEL00008	SWITCH PRESSURE 2000PS	1
<i>USED ON 991LBER-TBER UP TO SERIAL No 103778 & ON 995LSR-TSR UP TO SERIAL No 200689</i>			
6	CEL01525	ELECTRONIC PRESSURE SWITCH	1
<i>USED ON 991LBER-TBER FROM SERIAL No 103779 & ON 995LSR-TSR FROM SERIAL No 200690</i>			
7	CEL00113	LOOM EXT SOLENOID 3.3M	1
8	CEL00036	SENSOR CABLE 6M UNARMD UNIVERSAL	3
<i>CEL00215 UNIVERSAL MAGNETIC SENSOR IS A SUITABLE REPLACEMENT FOR THIS PART</i>			
9	CEL00220	WARNING BUZZER COMPLETE ASY	1
10	CEL00293	CABLE EXT 2.8M BEACON 991/995	1
11	CEL00292	BEACON XENON AMBER	1
12	CEL00017	MAGNET BLUE WHEEL	3
13	CEL00836	REMOTE HAND CONTROLLER 991/995	1

No.	Part No	Description	Qty
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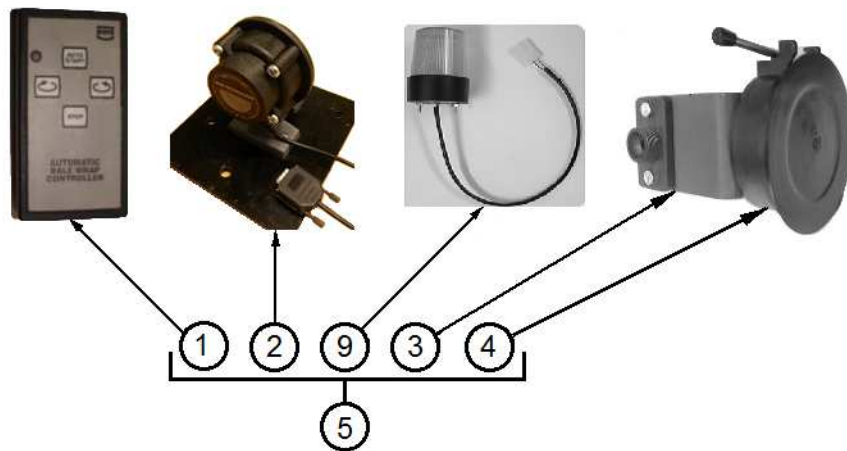
Expert control unit (1074)



No.	Part No	Description	Qty
1	CEL00071	CTRL EXPERT 991	1
1	CEL00189	CTRL EXPERT FUSION 1	1
1	CEL00147	CTRL EXPERT HS2000	1
1	CEL00168	EXPERT CONTROL UNIT	1
1	CEL00153	CTRL EXPERT 991 RECON	1
1	CEL00253	CTRL EXPERT FUSION 1 RECON	1
1	CEL00185	CTRL EXPERT HS2000 RECON	1
1	CEL00645	CTRL EXPERT 998 RECON	1
2	CEL00836	REMOTE HAND CONTROLLER 991/995	1
3	CEL00288	EXPERT CONTROL BOX SCREEN	1
4	CEL00321	SCREEN PROTECTOR EXPERT	1
5	CEL00326	BATTERY EXPERT/EXPERT PLUS	1
6	CEL00365	CTRL UNIT CONNECTOR LOCK RING	1
7	CEL00670	CONTROL UNIT STOP SWITCH	1
8	CEL00671	STOP SWITCH CONTACT BLOCK - FOR CEL00670	1
9	CEL00371	EXPERT CABLE+PLATE 991/HS/998	1
9	CEL00372	EXPERT CABLE + PLATE FUSION1	1
10	CEL00064	EURO POWER LEAD	1
11	CEL00010	EURO SOCKET TO BATT POWER LEAD	1
12	CEL00254	RDS EXPERT UPLOAD KIT	1
13	CEL00031	POWER LEAD	1
14	CPL00007	VACUUM PAD FLAT BACK	1
15	KST00070	CONTROL UNIT MOUNTING BRACKETS	1
16	CEL00098	CON HSG TAB 2 WAY AMP 180924-0	1
17	CEL00027	TERM CRIMP TAB AMP NO 42565-2	1
18	CEL00381	EXPERT KEYPAD MEMBRANE	1
19a	CEL00341	OVERLAY EXPERT HS2000	1
19b	CEL00340	OVERLAY EXPERT 998	1
19c	CEL00339	OVERLAY EXPERT 991	1
19d	CEL00342	OVERLAY EXPERT FUSION	1
19e	CEL01615	OVERLAY EXPERT 2 991	1
19f	CEL01616	OVERLAY EXPERT 2 998	1
20	CEL00315	PLUG 9 WAY D-TYPE (FARNELL: 108-4672 (10 PACK))	1
21	CEL00122	CON 9 WAY PLUG MALE	1
22	CEL00316	BACKSHELL 9 WAY D-TYPE	1
23	CEL00324	BUZZER EXPERT	1
24	CEL00386	FUSION EXPERT EXTERNAL BUZZER	1
25	CEL00013	REMOTE HAND PIECE	1
26	CEL00012	REMOTE RECEIVER	1
27	CEL00665	RADIO REMOTE RECEIVER	1
28	CEL00664	REMOTE HAND PIECE R/C	1

No.	Part No	Description	Qty
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Remote control options (263)

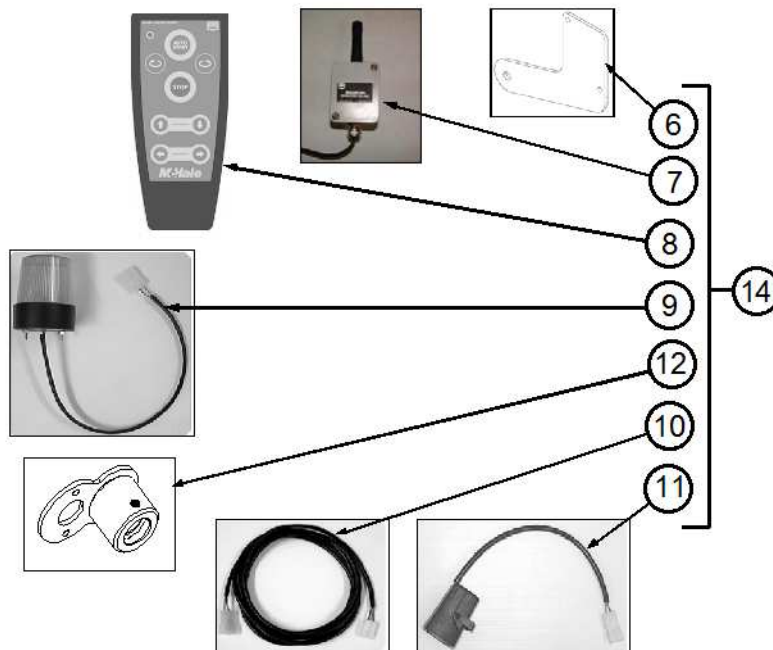


REMOTE CONTROL INFRARED TYPE

Used on current version of 998 (KST00022)

Was used on older versions of 991/995 & HS2000 (KST00007)

REMOTE CONTROL RADIO-CONTROL TYPE



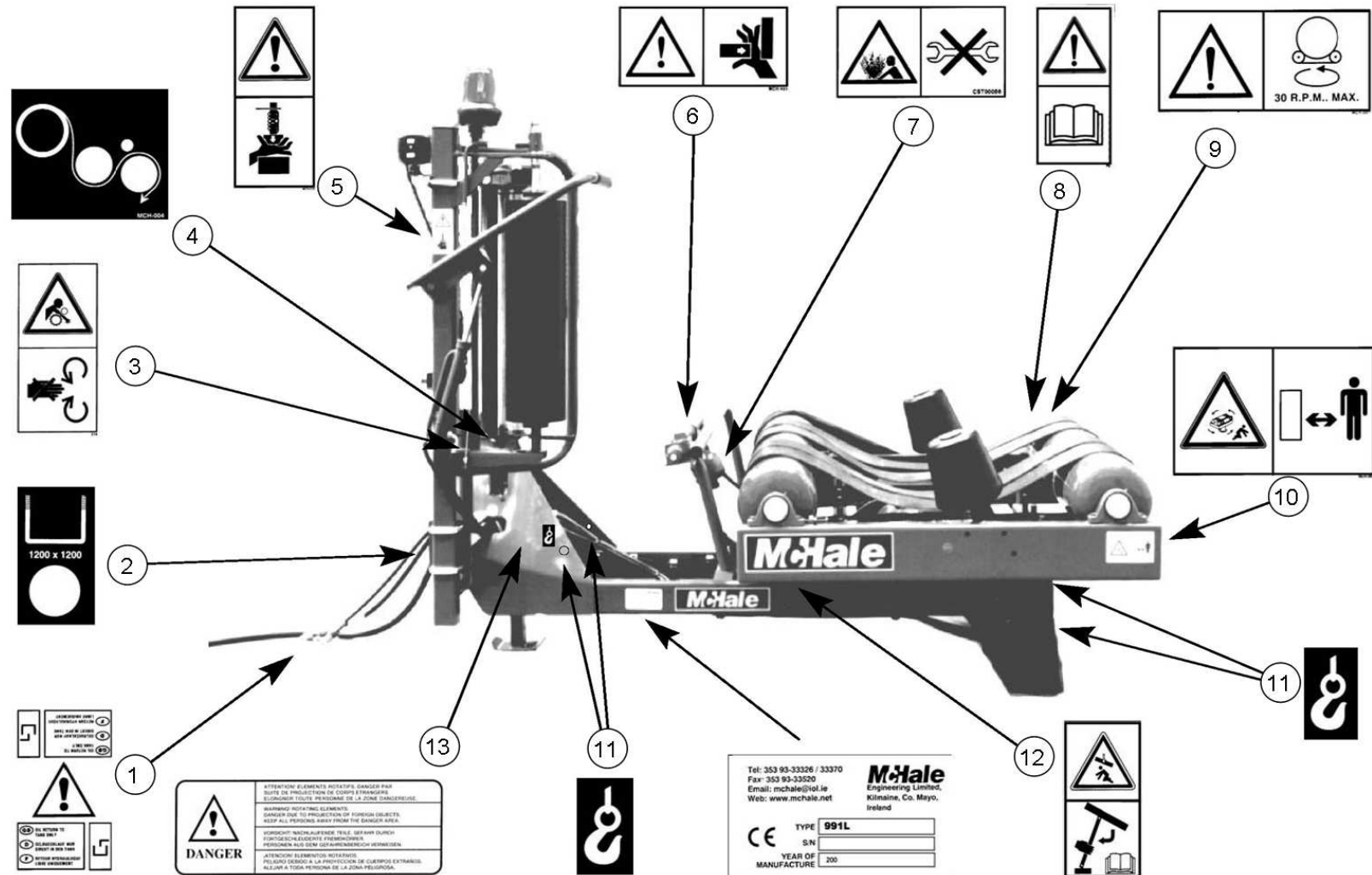
Supersedes Infrared type remote control for newer versions of 991/995 (KST00053) and HS2000 (KST00021)

Not used on 998 machines

No.	Part No	Description	Qty
1	CEL00013	REMOTE HAND PIECE	1
2	CEL00012	REMOTE RECEIVER	1
3	CZD02128	4MM L REMOTE POD BRACKET	1
4	CPL00007	VACUUM PAD FLAT BACK	1
5	KST00007	KIT REMOTE + BEACON 991/995	1
<i>REPLACED BY RADIO REMOTE CONTROL KIT KST00021 (HS2000) & KST00053 (991/995)</i>			
5	KST00022	KIT INFARED REMOTE+BEACON 998	1
<i>USED ON 998 ONLY</i>			
6	CZC04362	BRACKET REMOTE TRANSMITTER.	1
7	CEL00665	RECEIVER	1
8	CEL00664	HAND PIECE	1
9	CEL00292	BEACON XENON AMBER	1
<i>REPLACES CEL00032</i>			
10	CEL00293	CABLE EXT 2.8M BEACON 991/995	1
<i>USED ON 991/995 ONLY</i>			
10	CEL00294	CABLE EXT BEACON HS2000	1
<i>USED ON HS2000 ONLY UP TO SERIAL No 551069</i>			
11	CEL00220	WARNING BUZZER	1
12	ADP00160	BRACKET BEACON XENON	1
14	KST00021	KIT REMOTE + BEACON HS2000	1
<i>USED ON HS2000 SERIES ONLY</i>			
14	KST00053	KIT RADIO REMOTE+BEACON 991/995	1
<i>USED ON 991/995 SERIES ONLY</i>			

No.	Part No	Description	Qty
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Decals (769)



No.	Part No	Description	Qty
1	CST00006	DECAL FREEFLOW RET TO TANK	1
2	CST00062	DECAL DISPENSER HEIGHT 991	1
3	CST00017	DECAL ROTATING ELEMENTS 214	1
4	CST00049	DECAL DISPENSER THREADING 991	1
5	CST00026	DECAL HAND ENTRAPMENT MCH-019	1
6	CST00019	DECAL CRUSHED HAND MCH-005	1
7	CST00056	DECAL ACCUMULATOR WARNING	1
8	CST00057	DECAL READ MANUAL F9	1
9	CST00031	DECAL TABLE SPEED 30 RPM	1
10	CST00028	DECAL STAY CLEAR OF TABLE	2
11	CST00032	DECAL LIFTING HOOK	4
12	CST00059	DECAL TABLE SUPPORT BAR	1
13	CST00014	DECAL WARNING!ROTATING ELEMENT	1

No.	Part No	Description	Qty
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