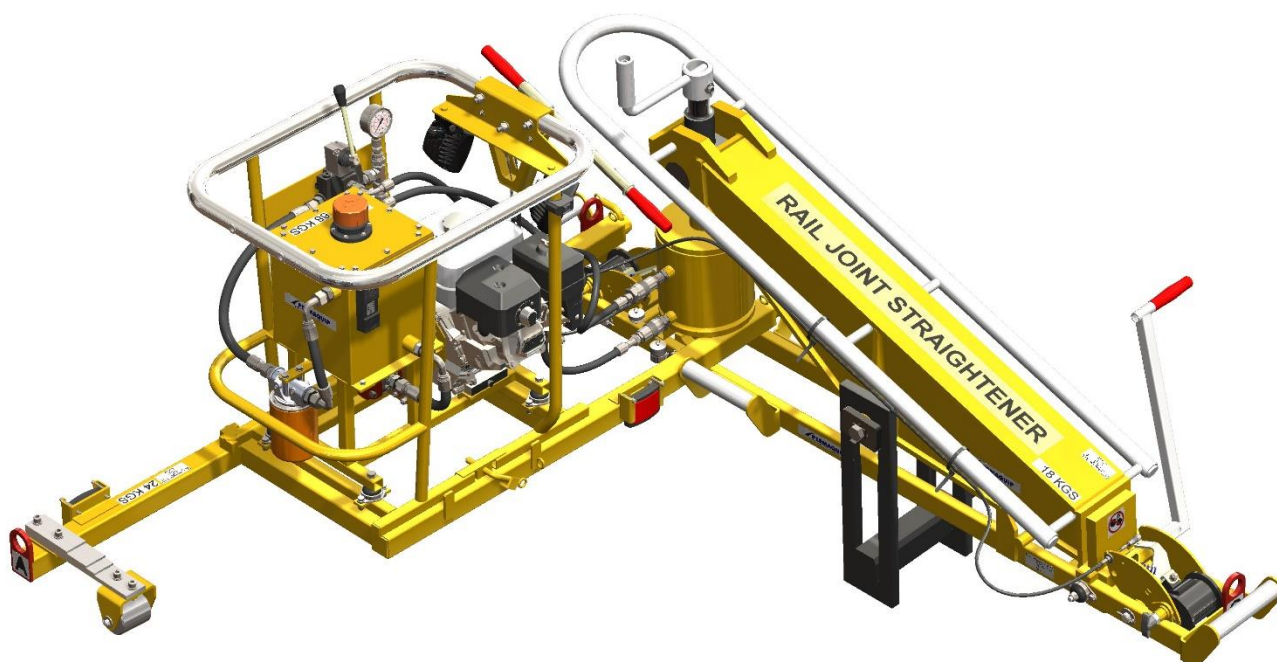


Rail Joint Straightener

MAN-M-0-222_02



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Please note

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All information, illustrations and specifications in this Spare Parts List are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

Equipment operators and installers shall be responsible for ensuring that a safe working environment and safe systems of work are in place and in certain circumstances advice and permission from the controlling authority must be sought before any operation, installation or surveying work is carried out.

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1 ISSUE AND REVISION RECORD

This document will be updated when necessary, by the re-issue of the complete document.

Issue	Description	Date	Revised Page No.	Revised By.
00	Initial release.	17/04/2018	All	K.S.
01	Updated with changes mandated by Network Rail.	16/03/2020	All	M.S
02	Brake handle design updated, formatting and Permaquip branding updated.	22/02/2022	All	M.S

Authorised By:	Martin Sheppard BEng	
	Engineering Manager	

2 INTRODUCTION

The Permaquip™ Rail Joint Straightener (RJS) is a portable, one rail unit, capable of straightening both welded and fish-plated rail joints.

The unit contains an integral power pack for simple operation. The high capacity ram is fitted with a graduated scale to read the actual rail deflection at the joint.

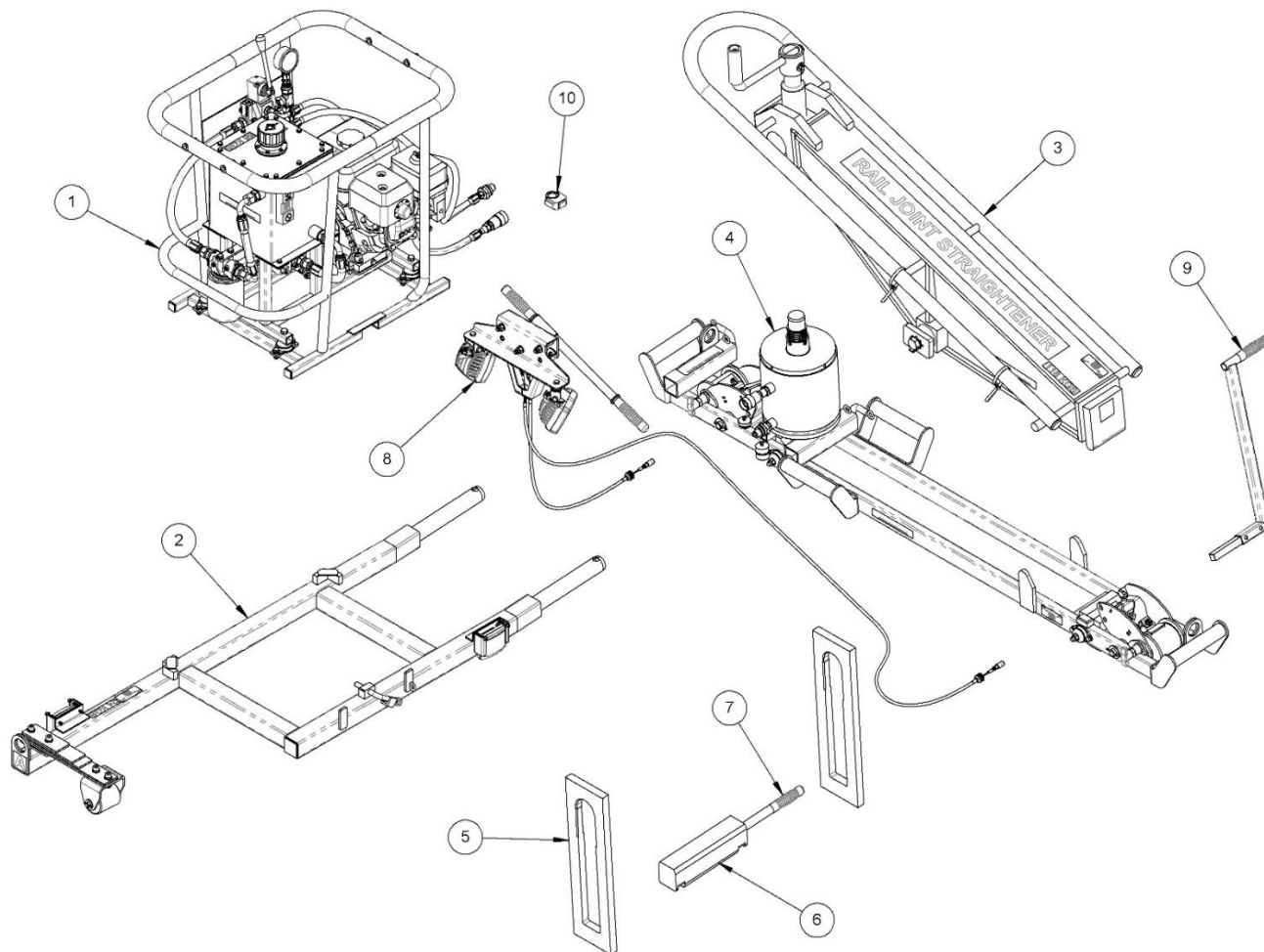
3 SAFE AND CORRECT USE

To ensure safe and correct use of the Permaquip™ Rail Joint Straightener please refer to the product's Operating and maintenance manual.

Once any maintenance, repair or service operations have been undertaken, ensure that the Maintenance and Test Specification of the product, as defined in the product's Operating and maintenance manual, are followed.

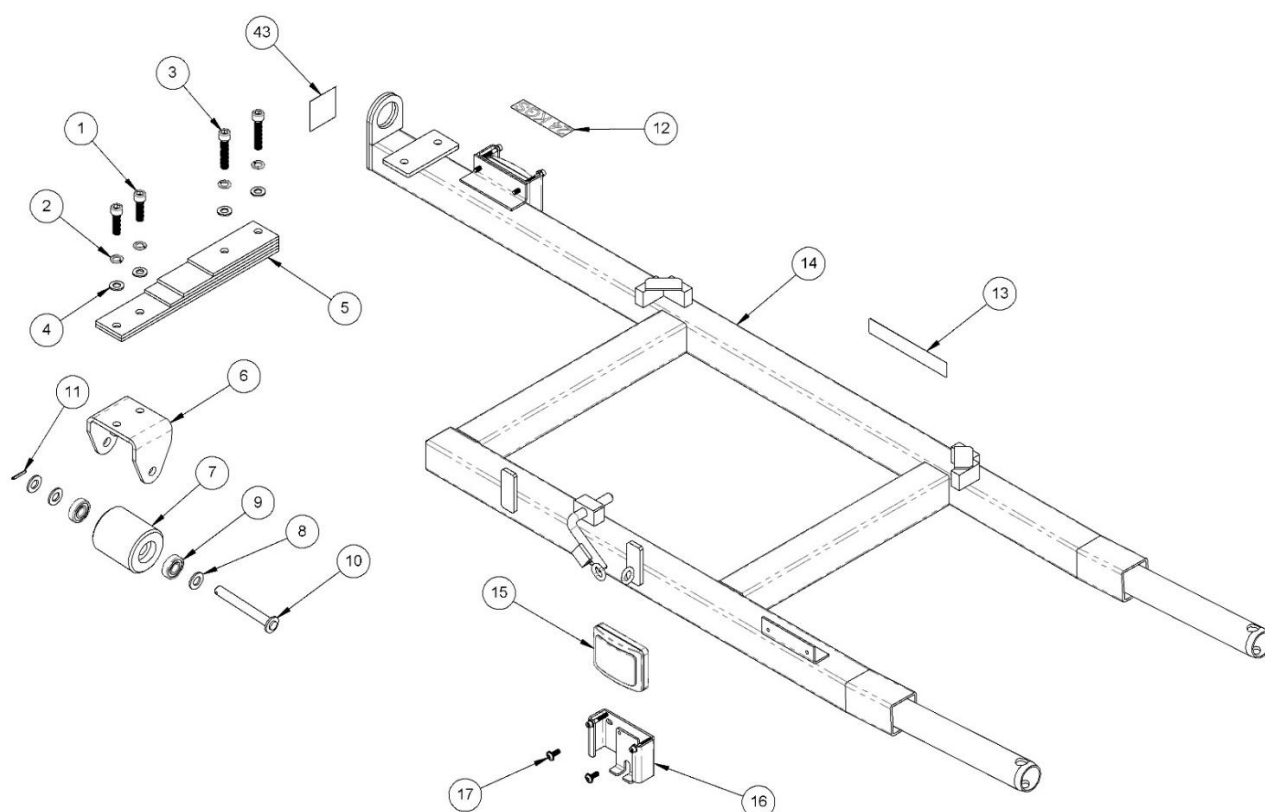
4 ASSEMBLY PARTS

4.1 General Assembly



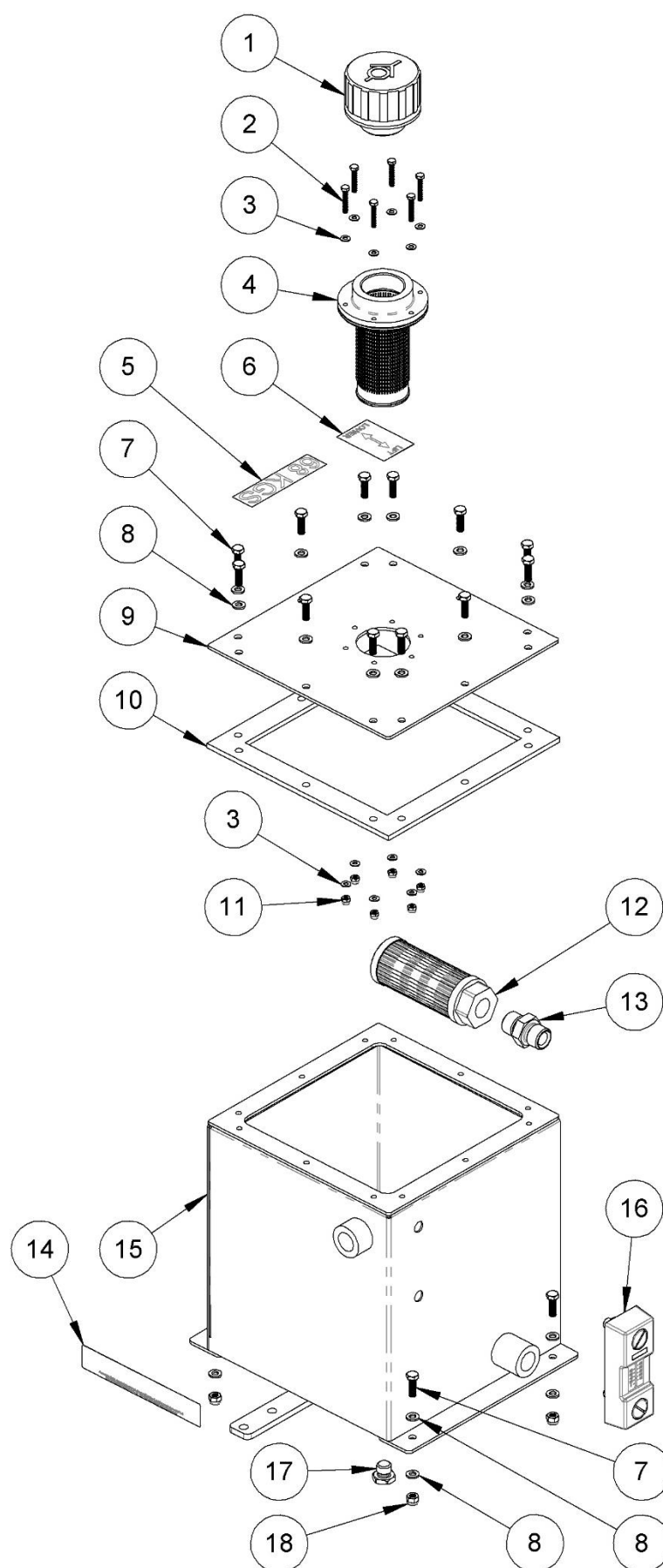
1	36262	RJS Power Pack	1
2	33801	RJS Outrigger Assembly	1
3	38802	RJS Beam Assembly	1
4	38800	RJS Chassis / Cylinder Assembly	1
5	02919	Link	2
6	05264	Loading Bar W/A	1
7	04099156	Handle Grip Ribbed Red	1
8	38799	RJS Brake Handle Assembly	1
9	38755	RJS Wheel Handle G/A	1
10	040815289	12V 6 Amp Handlebar Switch	1

4.2 RJS Outrigger Assembly

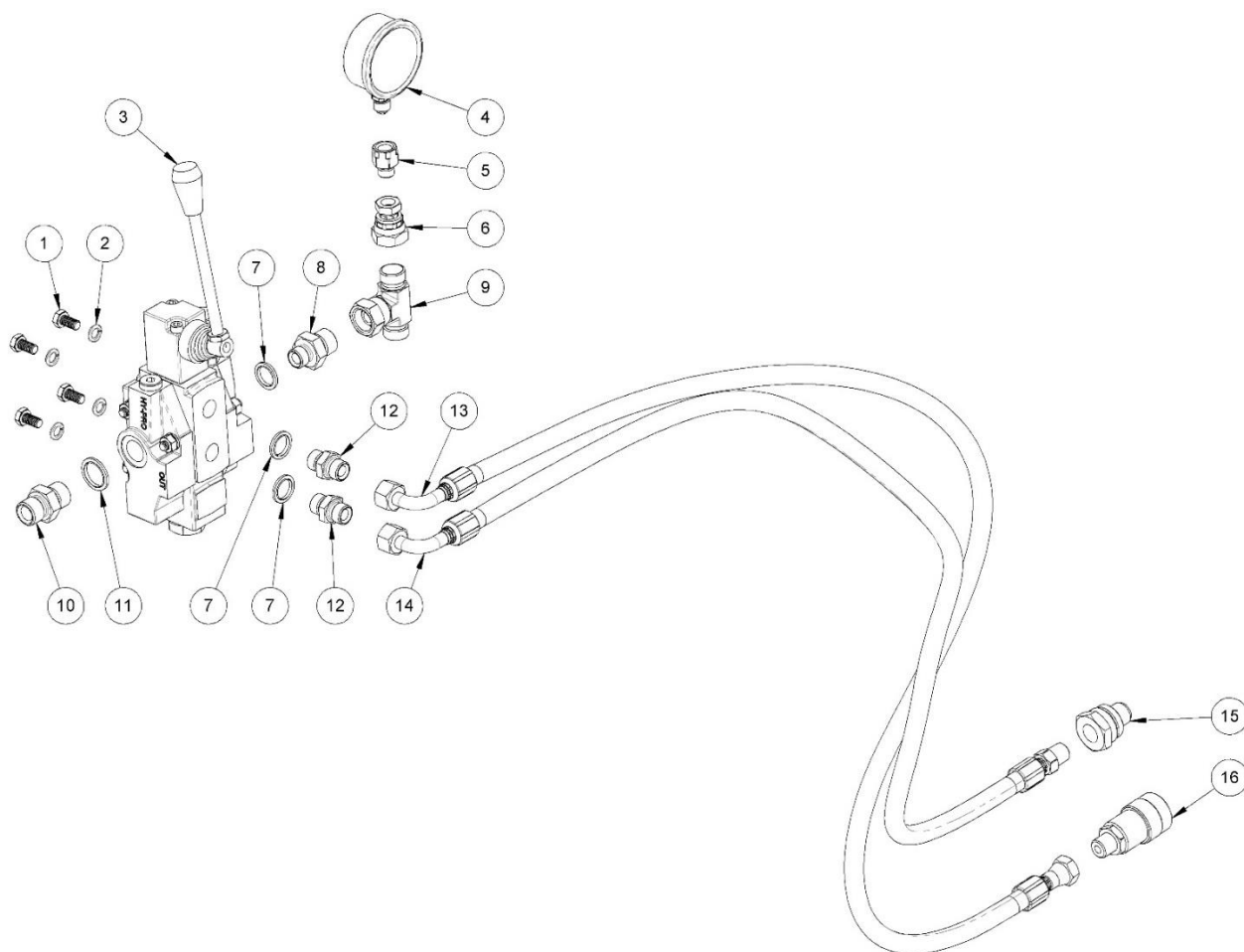


1	040355079	M10 x 35 Skt Cap Set Screw Zinc (12.9)	2
2	040260008	M10 Spring Washer Zinc	4
3	040355082	M10 x 50 Skt Cap Set Screw Zinc (12.9)	2
4	040285105	M10 Form A Washer Zinc	4
5	03231	Spring Set	1
6	03214	Roller Mounting Bracket	1
7	36329	Wheel	1
8	040280022	1/2" Table 3 Washer Zinc	3
9	040560002	Single Row Deep Groove Ball Bearing 1/2"	2
10	04240	Roller Axle W/A	1
11	040220816	Ø1/8" x 1" Seloc Pin	1
12	38646	RJS Outrigger Mass Label	1
13	040991826	Permaquip Label 150 x 25	1
14	04241	Outrigger W/A	1
15	040820218	Red Light	2
16	33268	Light Bracket W/A	2
17	040370063	M6 x 16 Button Flange Skt Set Screw (10.9) Zinc	4

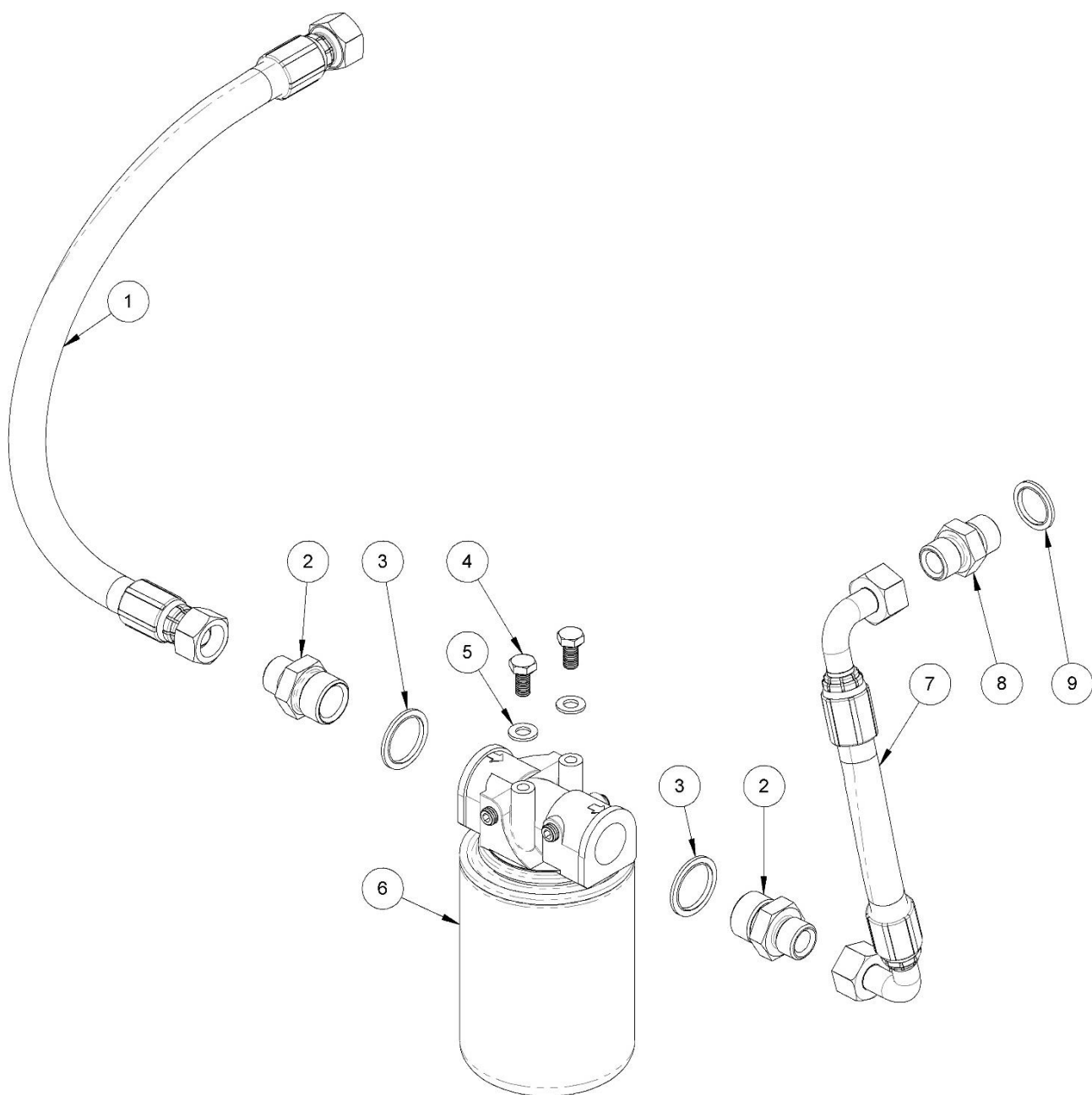
4.3 RJS Power Pack



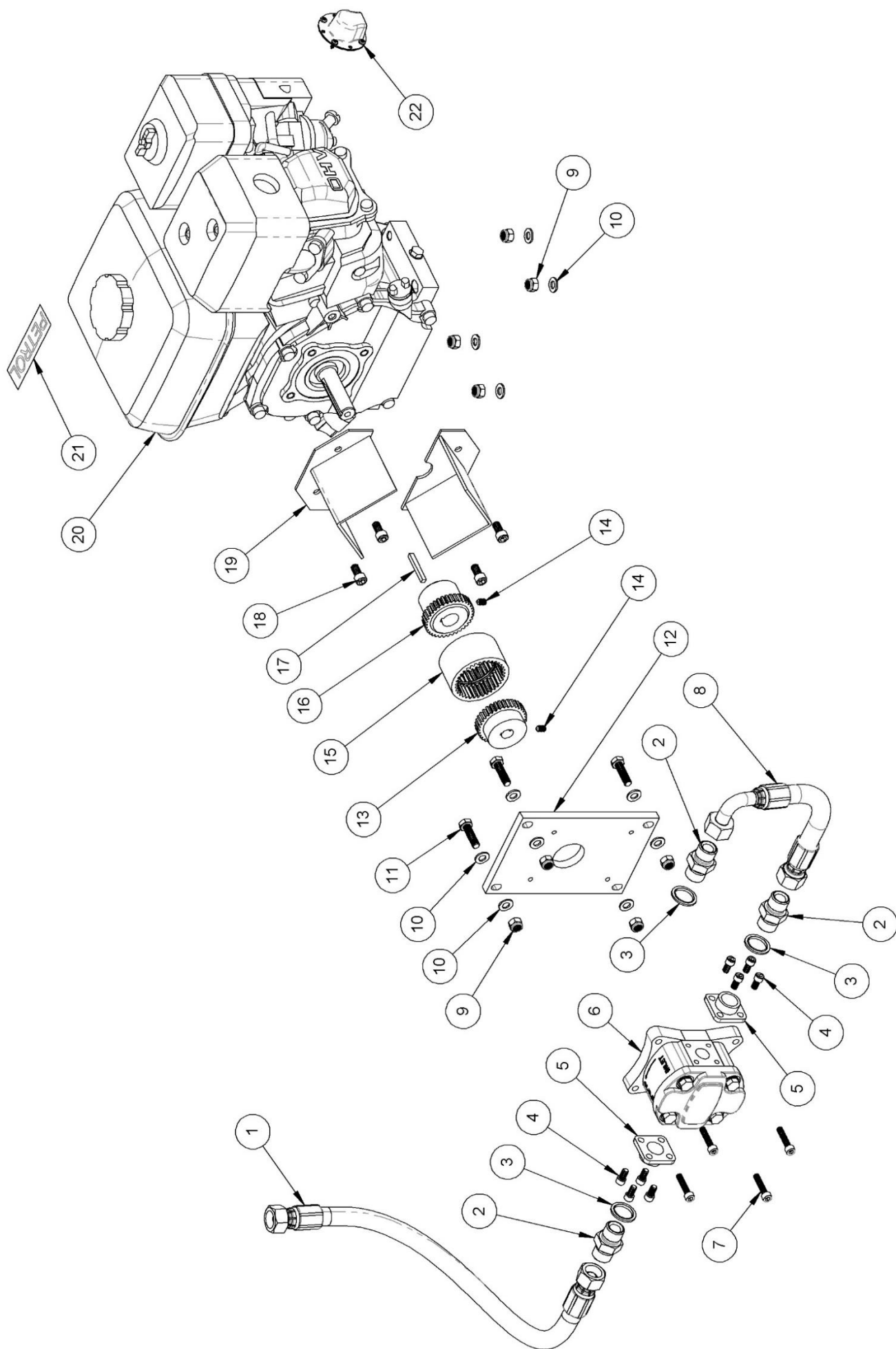
1	040991629	Pressurised Breather Filler Cap 1 1/4"	1
2	040315244	M4 x 25 Hex Set Screw Zinc (8.8)	6
3	040285101	M4 Form A Washer Zinc	12
4	040991626	Threaded Flange	1
5	38641	RJS Power Pack Mass Label	1
6	38642	Lift / Lower Label	1
7	040315046	M6 x 20 Hex Set Screw Zinc (8.8)	16
8	040285103	M6 Form A Washer Zinc	20
9	10553	Tank Lid	1
10	36271	Lid Gasket	1
11	040420030	M4 Nyloc Nut Zinc (8.0)	6
12	040970002	Suction Filter 1/2"	1
13	040570010	1/2" BSPP M - 1/2" BSPP M Adapter	1
14	040991826	Permaquip Label 150 x 25	1
15	10552	Tank Fabrication	1
16	040990048	Oil Level Temp. Gauge	1
17	040570254	1/4" BSPP Blanking Plug	1
18	040420011	M6 Nyloc Nut Zinc (8.0)	4



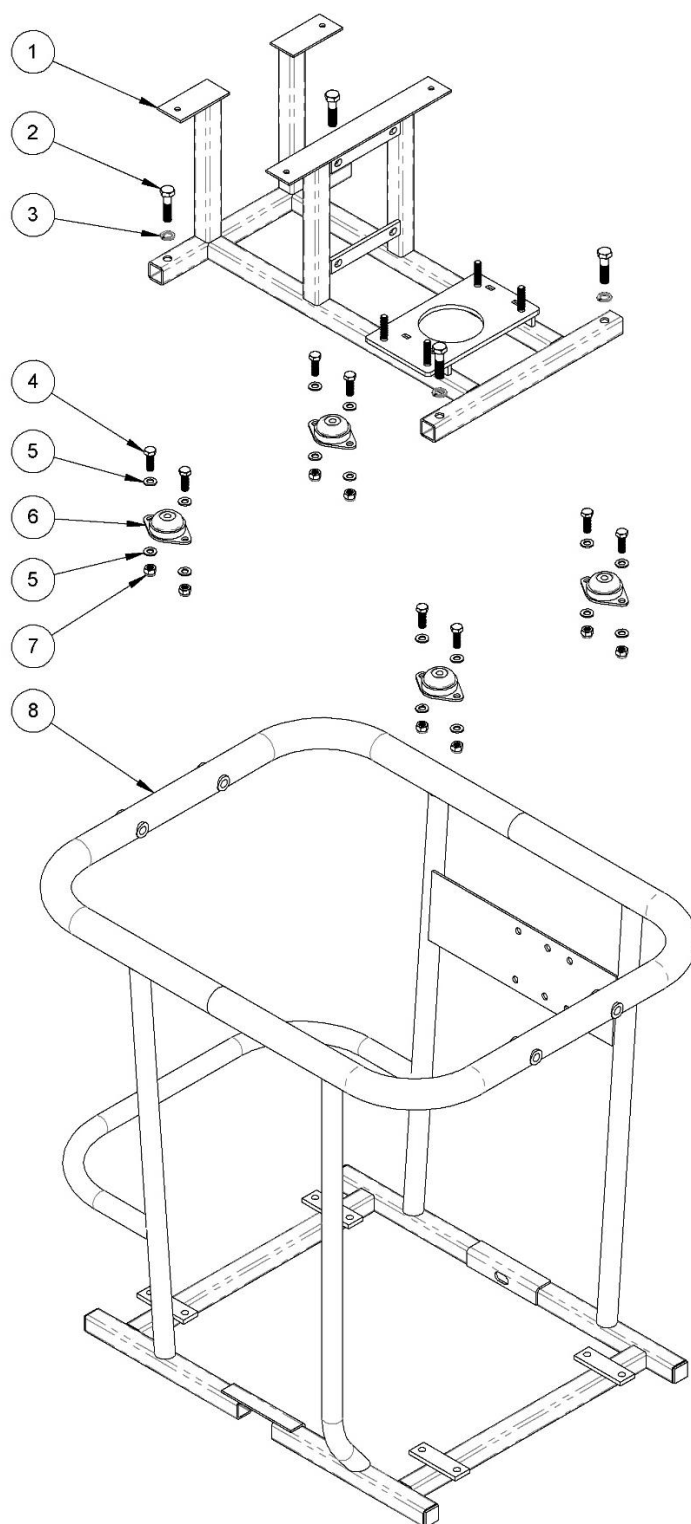
1	040315064	M8 x 16 Hex Set Screw Zinc [8.8]	4
2	040260009	M8 Spring Washer Zinc	4
3	040631627	Hydraulic Control Valve	1
4	040990010	Pressure Gauge 250 Bar G1/4"	1
5	040578257	1/4" BSP M - 1/4" BSP F Gauge Adapter	1
6	040578248	1/2" BSPP F - 1/4" BSPP F Swivel Adapter	1
7	040130006	3/8" BSP Bonded Seal	3
8	040570007	3/8" BSPP M - 1/2" BSPP M Adapter	1
9	040578174	Tee 1/2" BSPP M - M - F SW	1
10	040570010	1/2" BSPP M - 1/2" BSPP M Adapter	1
11	040130007	1/2" BSP Bonded Seal	1
12	040570006	3/8" BSPP M - 3/8" BSPP M Adapter	2
13	040161054	3/8" NPTF ST - 3/8" BSPPF 90° SW Ø3/8" ID 345 Bar Hose 1.2m	1
14	040161052	3/8" NPTM ST - 3/8" BSPPF 90° SW Ø3/8" ID 345 Bar Hose 1.2m	1
15	040990427	3/8" NPT Male Quick Release Coupling	1
16	040990428	3/8" NPT Female Quick Release Coupling	1



1	040161050	1/2" BSPPF ST SW - 1/2" BSPPF ST SW Ø1/2" ID 295 Bar Hose 500mm	1
2	040570011	3/4" BSPP M - 1/2" BSPP M Adapter	2
3	040130009	3/4" BSP Bonded Seal	2
4	040315064	M8 x 16 Hex Set Screw Zinc (8.8)	2
5	040285104	M8 Form A Washer Zinc	2
6	040970124	Hydraulic Spin-On Filter 3/4" BSP	1
7	040161051	1/2" BSPPF 90° SW - 1/2" BSPPF 90° SW Ø1/2" ID 295 Bar Hose 250mm	1
8	040570010	1/2" BSPP M - 1/2" BSPP M Adapter	1
9	040130007	1/2" BSP Bonded Seal	1

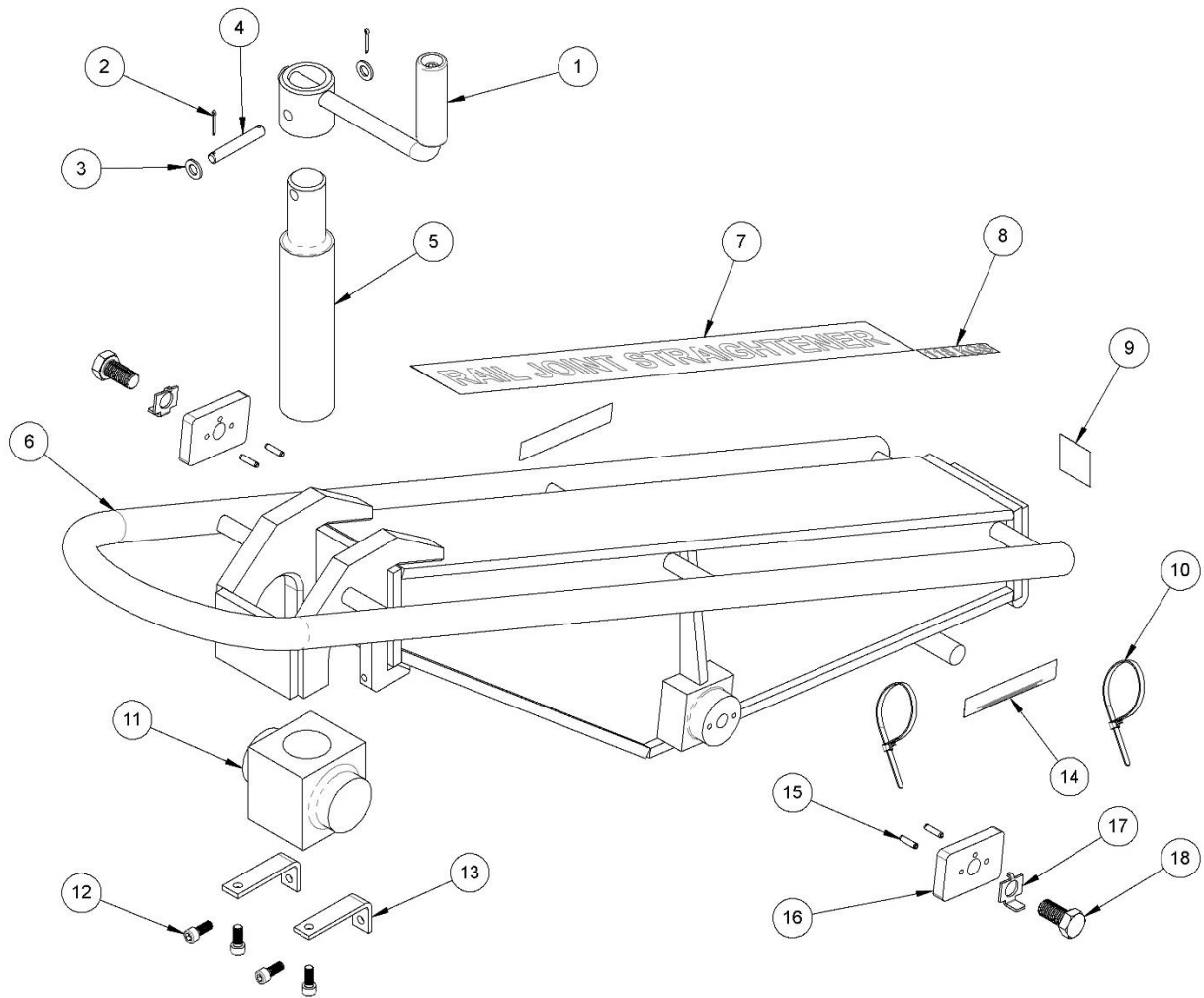


1	040161050	1/2" BSPPF ST SW - 1/2" BSPPF ST SW Ø1/2" ID 295 Bar Hose 500mm	1
2	040570010	1/2" BSPP M - 1/2" BSPP M Adapter	3
3	040130007	1/2" BSP Bonded Seal	3
4	040350422	1/4" UNC x 3/4" Skt Cap Screw Zinc Grade 5	8
5	040730815	Port Adaptor Straight 1/2" BSP	2
6	040730031	Dowty Hydraulic Pump	1
7	040355038	M6 x 30 Skt Cap Set Screw Zinc (12.9)	4
8	040161048	1/2" BSPPF 90° SW - 1/2" BSPPF ST SW Ø1/2" ID 295 Bar Hose 260mm	1
9	040420012	M8 Nyloc Nut Zinc (8.0)	4
10	040285104	M8 Form A Washer Zinc	8
11	040315067	M8 x 30 Hex Set Screw Zinc (8.8)	4
12	10620	Pump Mounting Plate	1
13	10562	Pump Gear M/C	1
14	040335028	M6 x 10 Grub Screw Cup Point (14.9)	2
15	040600001	Drive Coupling Sleeve	1
16	10642	Engine Gear M/C	1
17	13438	Key 3/16" x 3/16" x 40mm	1
18	040350115	5/16" UNC x 5/8" Skt Cap Screw Zinc Grade 5	4
19	36272	Shaft Cover W/A	2
20	040707331	Honda GX160 Engine	1
21	35610	Petrol Label	1
22	040707345	Exhaust Deflector for Honda GX160	1



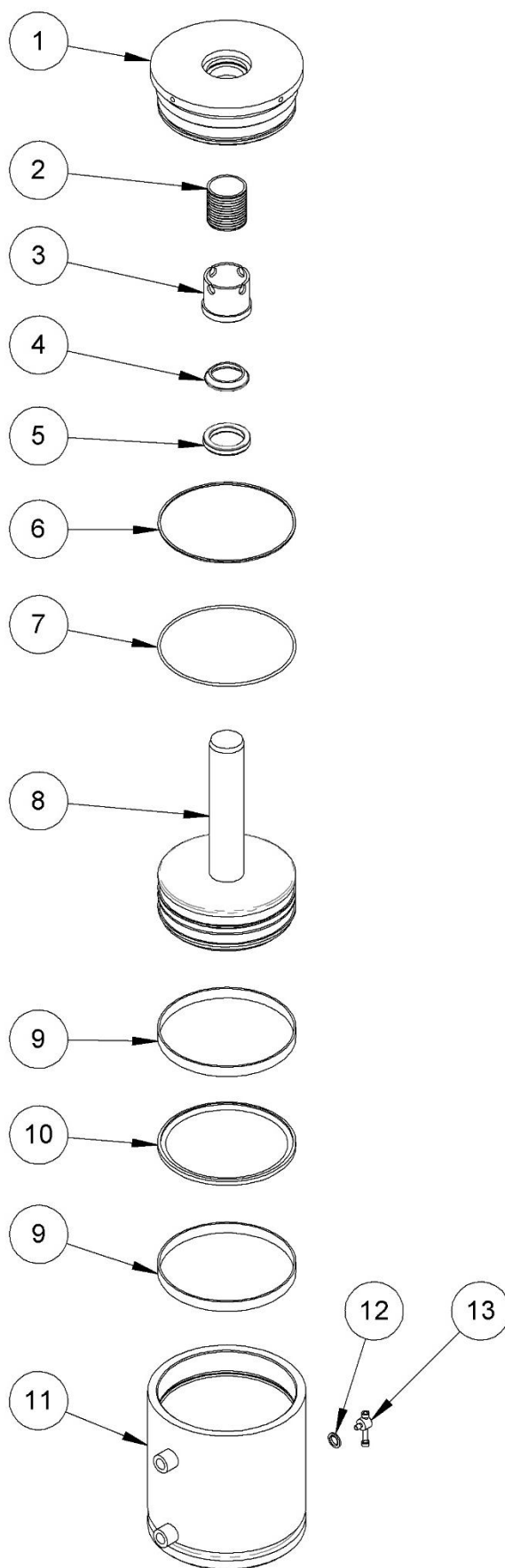
1	22233	Sub Frame	1
2	040305044	M10 x 40 Hex Bolt Zinc (8.8)	4
3	040260008	M10 Spring Washer Zinc	4
4	040315066	M8 x 25 Hex Set Screw Zinc (8.8)	8
5	040285104	M8 Form A Washer Zinc	16
6	040991073	Engine Mount M10	4
7	040420012	M8 Nyloc Nut Zinc (8.0)	8
8	10646	Main Frame	1

4.4 RJS Beam Assembly



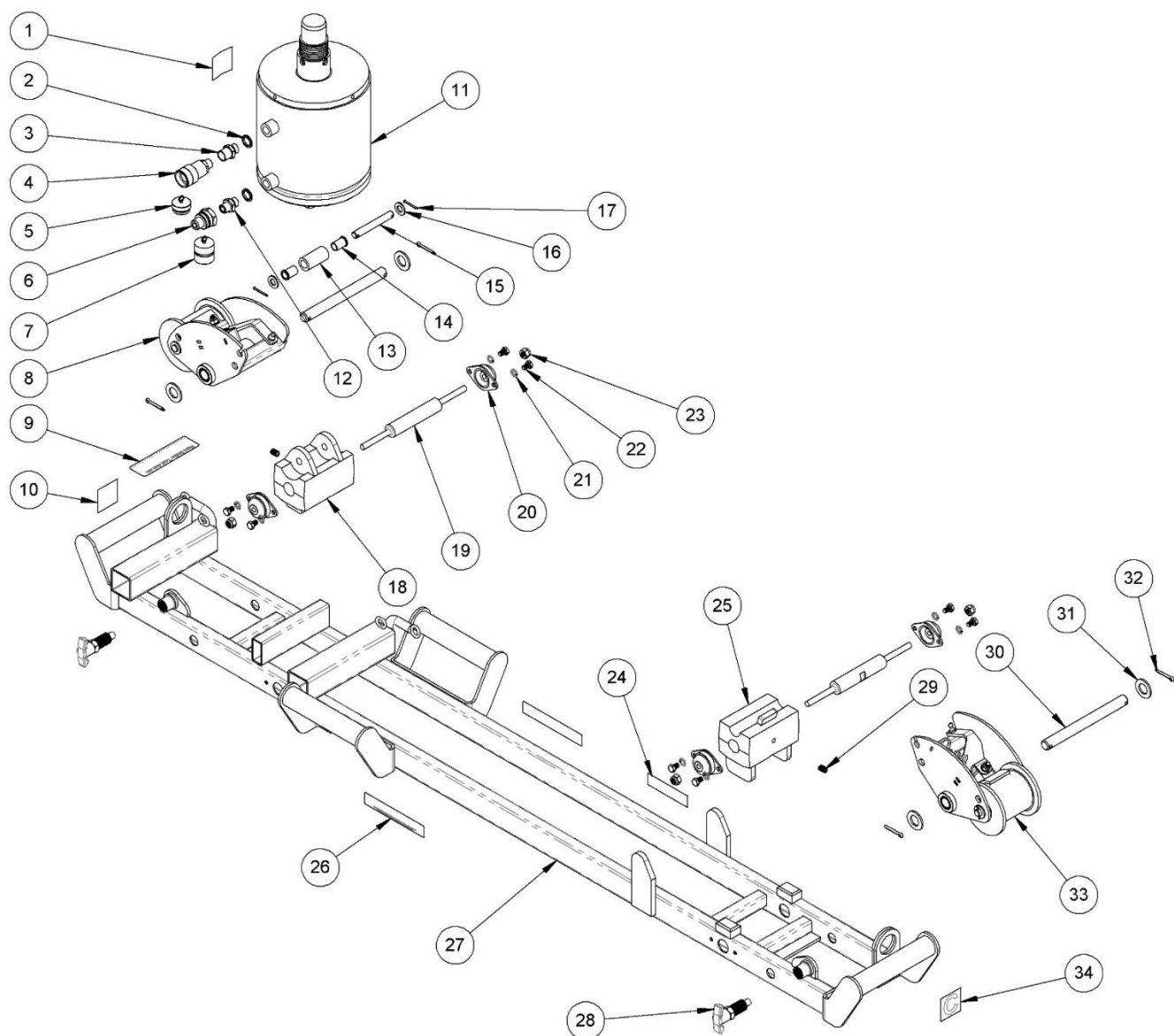
1	05180	Handle Assembly	1
2	040210816	Ø1/8" x 1" Split Pin	2
3	040285106	M12 Form A Washer Zinc	2
4	05179	Screw Pin	1
5	02505	Adjustment Screw	1
6	04293	Beam W/A	1
7	38643	RJS Label	1
8	38644	RJS Beam Mass Label	1
9	38647	No Hands Label	1
10	040760102	Std Releasable Cable Tie 250 x 7.6mm	2
11	03234	Adjustment Nut	1
12	040355077	M10 x 25 Skt Cap Set Screw Zinc (12.9)	4
13	05183	Retaining Plate	2
14	040991826	Permaquip Label 150 x 25	2
15	040221616	Ø1/4" x 1" Seloc Pin	4
16	02737	Special Washer	2
17	04303	Tab Washer	2
18	040315224	M20 x 40 Hex Set Screw Zinc (8.8)	2

4.5 Hydraulic Ram Ø7"



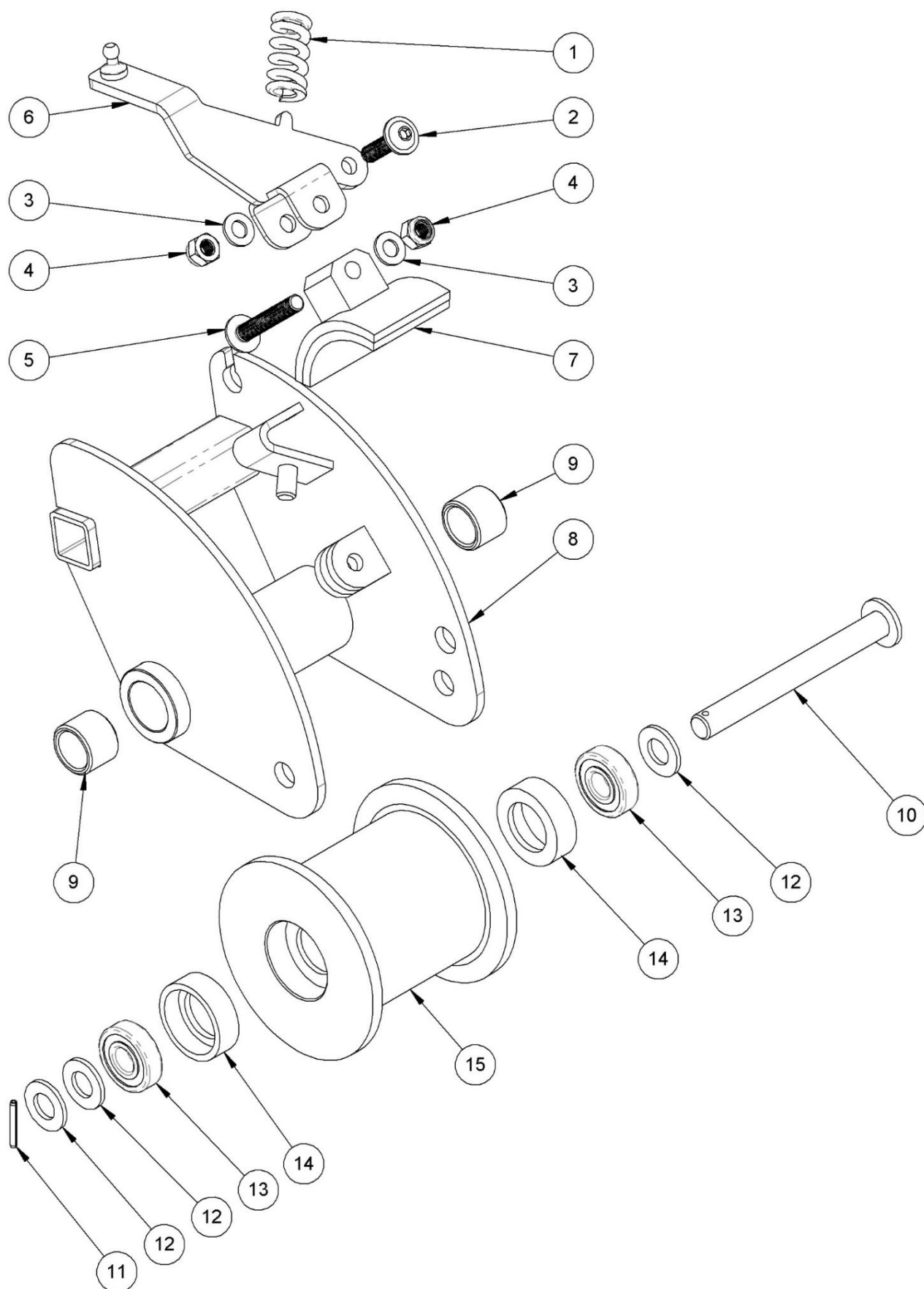
1	20505	Piston Bearing	1
2	02801	Calibrated Sleeve	1
3	02802	Outer Sleeve	1
4	040100408	Ø1.75" x Ø2.25" x 0.205" Wiper Seal	1
5	040050022	Rod Piston Seal 2.375" OD, 1.75" ID, 0.437" Wide	1
6	040180085	BS261 Back-Up Washer	1
7	040010117	O Ring - BS261	1
8	20502	Piston Rod S/A	1
9	040060627	Slydring 7" S55915/1778/47A	2
10	040060607	Glydring 7" S55024/1778/42N	1
11	20500	Cylinder S/A	1
12	040130005	1/4" BSP Bonded Seal	1
13	05030	Bleed Screw Assembly	1

4.6 RJS Chassis / Cylinder Assembly



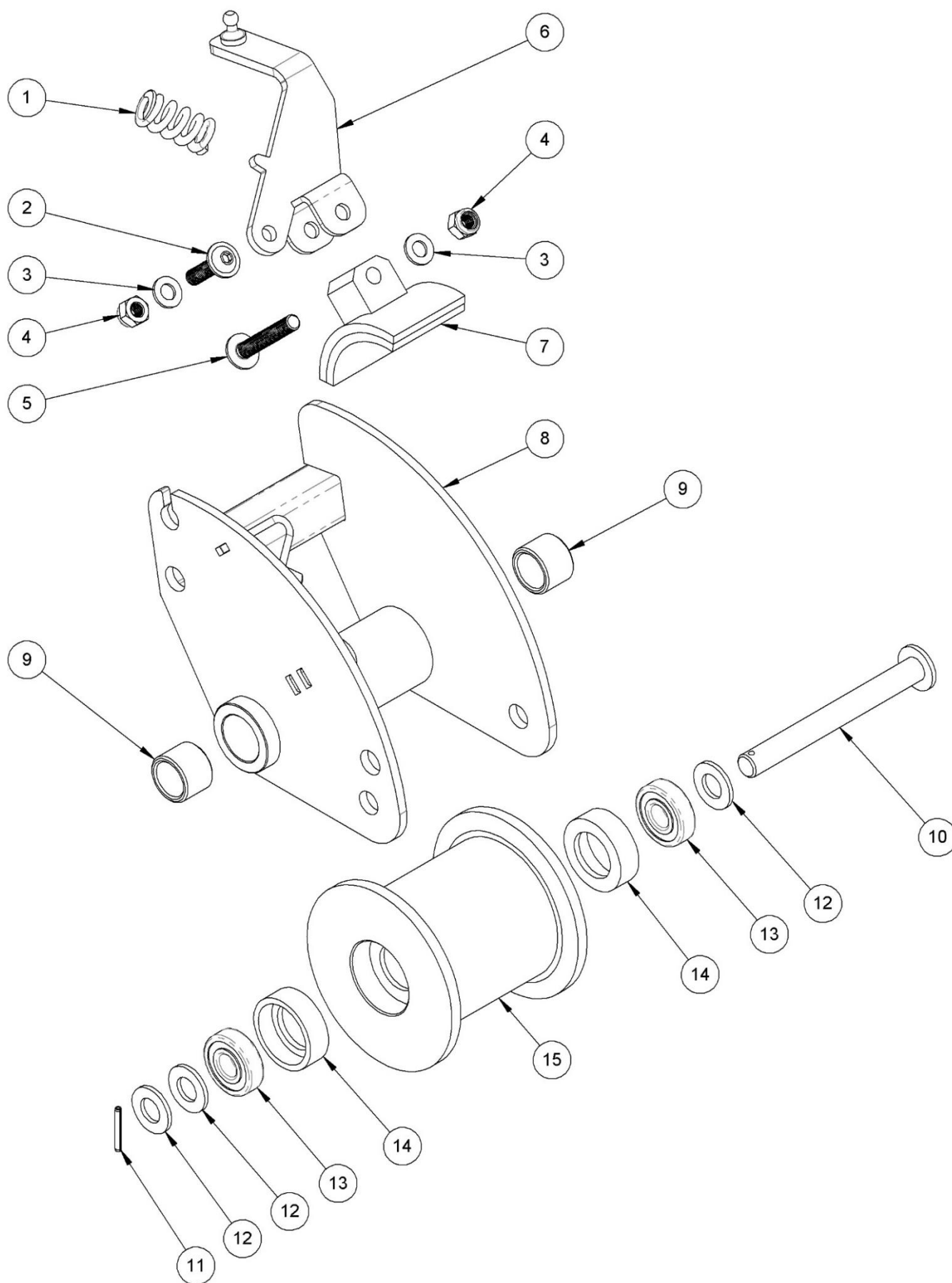
1	38647	No Hands Label	1
2	040130006	3/8" BSP Bonded Seal	2
3	040578181	3/8" BSPP M - 3/8" NPT F Adapter	1
4	040990428	3/8" NPT Female Quick Release Coupling	1
5	040990430	Dust Cap - 3/8" Quick Release Coupling (Female) Screw Type	1
6	040990427	3/8" NPT Male Quick Release Coupling	1
7	040990429	Dust Cap - 3/8" Quick Release Coupling (Male) Screw Type	1
8	38774	Front Wheel Assembly	1
9	33813	Next Brake Test Label	1
10	38804	Label B	1
11	20499	Hydraulic Ram Ø7"	1
12	040578182	3/8" BSPP M - 3/8" NPT M Adapter	1
13	040161053	Hose 5/8" ID 1" OD x 2" GH793-10	1
14	040240192	Ø1/2" x 5/8" x 1" Flanged Oilite Bearing	2
15	04228	Ram Link Pin	1
16	040285106	M12 Form A Washer Zinc	2
17	040210816	Ø1/8" x 1" Split Pin	2
18	04261	Ram Block W/A	1
19	27344	Pin	2
20	040991073	Engine Mount M10	4
21	040260009	M8 Spring Washer Zinc	8
22	040315063	M8 x 12 Hex Set Screw Zinc (8.8)	8
23	040420013	M10 Nyloc Nut Zinc (8.0)	6
24	38645	RJS Chassis Mass Label	1
25	04263	Beam Block W/A	1
26	040991826	Permaquip Label 150 x 25	2
27	04267	RJS Chassis W/A	1
28	040991904	M20x1.5 Stainless T Grip Index Plunger	2
29	040330168	3/8" BSF x 5/9" Grub Screw Cup Point	2
30	04294	Wheel Pivot Pin	2
31	040285110	M20 Form A Washer Zinc	4
32	040211220	Ø3/16" x 1.1/4" Split Pin	4
33	38775	Rear Wheel Assembly	1
34	38805	Label C	1

4.7 Front Wheel Assembly



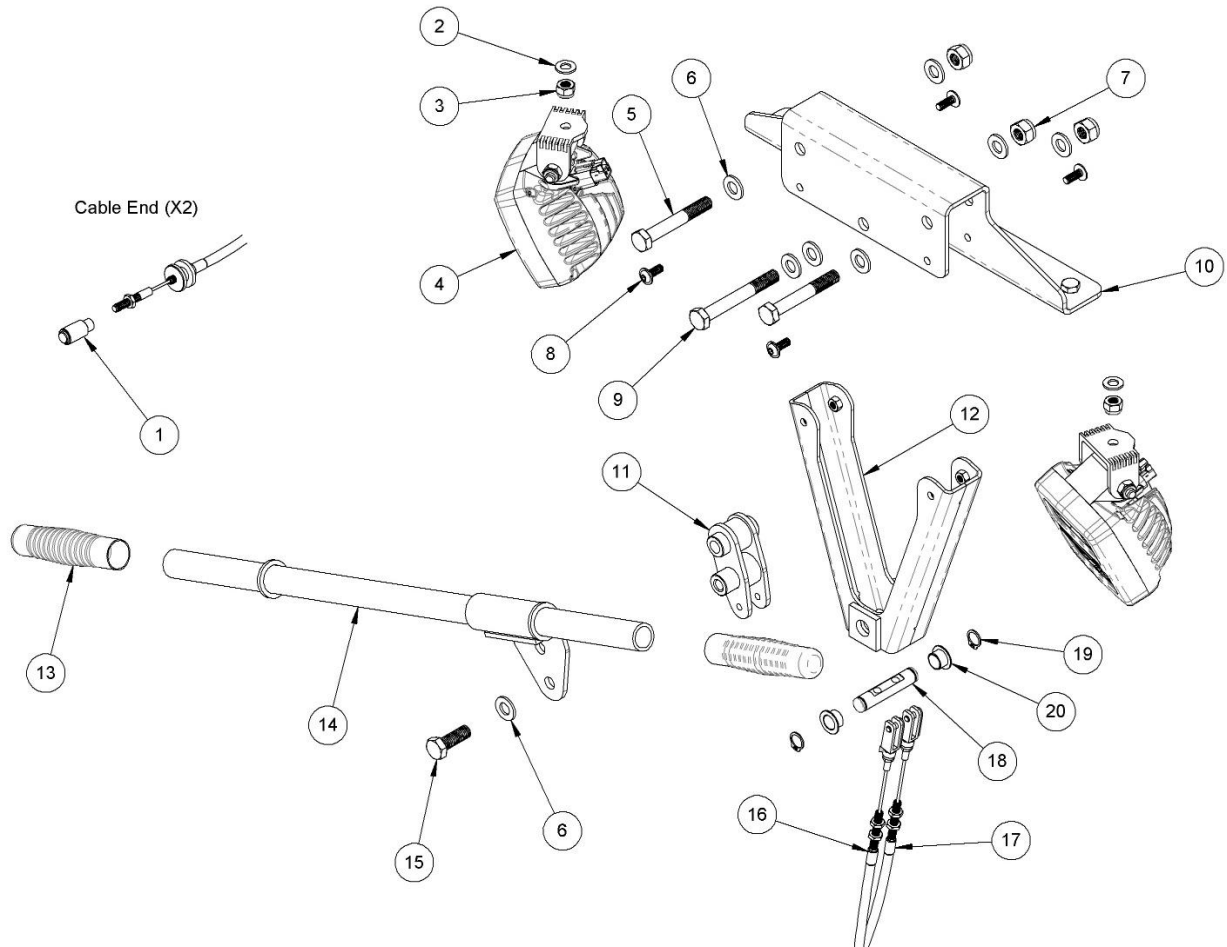
1	040980065	Ø3/4" x 1.5" Die Spring	1
2	040370086	M8 x 30 Button Flange Skt Set Screw (10.9) Zinc	1
3	040285104	M8 Form A Washer Zinc	2
4	040420012	M8 Nyloc Nut Zinc (8.0)	2
5	040370090	M8 x 50 Button Flange Skt Set Screw (10.9) Zinc	1
6	38772	Front Brake Bell Crank	1
7	38770	RJS Brake Pad	1
8	38776	Front Wheel Bracket Assembly	1
9	040240051	Ø3/4" x 1" x 3/4" Plain Oilite Bearing	2
10	02696	Wheel Axle	1
11	040220816	Ø1/8" x 1" Seloc Pin	1
12	040280022	1/2" Table 3 Washer Zinc	3
13	040560002	Single Row Deep Groove Ball Bearing 1/2"	2
14	28744	Aluminium Bush	2
15	05953	Wheel W/A	1

4.8 Rear Wheel Assembly



1	040980065	Ø3/4" x 1.5" Die Spring	1
2	040370086	M8 x 30 Button Flange Skt Set Screw (10.9) Zinc	1
3	040285104	M8 Form A Washer Zinc	2
4	040420012	M8 Nyloc Nut Zinc (8.0)	2
5	040370090	M8 x 50 Button Flange Skt Set Screw (10.9) Zinc	1
6	38766	Rear Brake Bell Crank	1
7	38770	RJS Brake Pad	1
8	38777	Rear Wheel Bracket Assembly	1
9	040240051	Ø3/4" x 1" x 3/4" Plain Oilite Bearing	2
10	02696	Wheel Axle	1
11	040220816	Ø1/8" x 1" Seloc Pin	1
12	040280022	1/2" Table 3 Washer Zinc	3
13	040560002	Single Row Deep Groove Ball Bearing 1/2"	2
14	28744	Aluminium Bush	2
15	05953	Wheel W/A	1

4.9 RJS Brake Handle Assembly



1	040580000	M6 S Type Quick Disconnect Balljoint	2
2	040285104	M8 Form A Washer Zinc	2
3	040420012	M8 Nyloc Nut Zinc (8.0)	2
4	040827540	LED Square Work Lamp 12V M8 Fittings	2
5	040315050	M10 x 70 Hex Set Screw Zinc (8.8)	2
6	040285105	M10 Form A Washer Zinc	8
7	040420013	M10 Nyloc Nut Zinc (8.0)	3
8	040370063	M6 x 16 Button Flange Skt Set Screw (10.9) Zinc	4
9	040315052	M10 x 80 Hex Set Screw Zinc (8.8)	1
10	38787	Handle & Light Bracket	1
11	38793	Brake Pivot Arm	1
12	38789	Brake Adjuster Pivot Bracket W/A	1
13	040991546	Handle Grip Ribbed Red	2
14	38798	Brake Handle	1
15	040315088	M10 x 30 Hex Set Screw Zinc (8.8)	1
16	040740096	RJS Short Brake Control Cable	1
17	040740095	RJS Long Brake Control Cable	1
18	38915	Brake Cable Pivot Pin	1
19	040207012	External Circlip Ø12	2
20	040240300	Ø12 x 14 x 9 Flanged Plastic Sleeve Bearing	2

5 ORDERING

DESCRIPTION		PADS Cat. No.	PART NO.
Rail Joint Straightener		PA05/03682	24173

For spare parts not shown, please contact Permaquip Ltd for further information and support.

Please contact Permaquip Ltd for further information and support.

Our contact details are shown on the front of this spare parts list.

In order to avoid delay and to have your orders fulfilled promptly,

Please telephone, e-mail, or write giving the following information:

- 1. Company name.**
- 2. Contact details.**
- 3. Invoicing and delivery details.**
- 4. Purchase order number.**
- 5. Method of delivery.**
- 6. Part number, description and quantity for each item.**