

snorkel

S2255RTE S2755RTE



REPAIR PARTS MANUAL

From Serial Numbers:

S2255RTE-07-200700001 &

S2755RTE-07-200700001 Onwards

Part Number 15382-2

July 2020 (Rev A)

Version 1

General Information

General Information	1-1
---------------------------	-----

Repair Parts

Bolt On Stabilisers Assembly	2-1
S2255RT Base Assembly	2-2
S2755RT Base Assembly	2-3
Steer Axle Assembly	2-4
Swing Arm Assembly	2-5
Control Cabinet Assembly	2-6
Serial Plate Mount Assembly	2-7
Control Box Mounting Assembly	2-8
Motor Cabinet Assembly	2-9
Motor Cabinet Charger Assembly	2-10
Power Cabinet Assembly	2-11
Cabinet Mounting Assembly	2-12
Stabiliser Leg Assembly Before Serial Numbers S2255RT-07-230300325, S2755RT-07-230300434 ...	2-13
Stabiliser Leg Assembly From Serial Number S2755RE-07-230100010	2-14
Wheel Mounting Assembly	2-15
Base, Stack & Platform Assembly	2-16
Bleed Down Cover Assembly	2-17
Platform Assembly	2-18
Platform Rear Handrail Assembly	2-19
S2255RT Scissor Stack	2-20
S2755RT Scissor Stack	2-21
Angle Transducer	2-22
Plastic Hydraulic Oil Tank Assembly	2-23
Steel Hydraulic Oil Tank Assembly	2-24
Placards And Decals	2-25

Hydraulics

Hose Part Numbers And Colour Codes	3-1
Main Manifold, No Added Fittings Before Serial Numbers	3-2
Main Manifold, No Added Fittings After Serial Numbers	3-3
Main Manifold, With Added Fittings	3-4
4WD Manifold, No Added Fittings	3-5
4WD Manifold, Added Fittings	3-6
Auto Stabiliser Manifold, No Added Fittings	3-7
Auto Stabiliser Manifold, Added Fittings	3-8
Steer Cylinder Assembly	3-9
Axle Cylinder Assembly	3-10
Lift Cylinder Assembly	3-11
Stabiliser Cylinder Assembly - Imperial Cylinders	3-12
Stabiliser Leg Assembly - Metric Cylinders	3-13

Electrical

GP400 & I/O Allocations	4-1
Upper Control Box Assembly	4-2
Lower Control Box Assembly	4-3

Options

240V At Base Assembly	5-1
240V At Platform Assembly	5-2
Side Gate Option	5-3

Schematics

Motor Control Schematic	6-1
Hydraulic Schematic	6-2
Wiring Schematics	6-3
Appendix A:Pages Index	A
Appendix B:Parts Index	B

■ General Specifications S2255RTE

SPECIFICATIONS		S2255RTE	
Nominal working height	Wheels	8.1m	26' 7"
	Stabilisers	8.5m	27' 11 "
Platform floor height	Wheels	6.1m	20'
	Stabilisers	6.5m	21' 4"
Roll out deck size		1.2m	47"
Drive speed	Below 2.4m	0 to 5.2kp/h	0 to 3.3mph
	Above 2.4m	0 to 0.64kp/h	0 to 0.4mph
Safe working load (Roll out deck NOT extended)	Main deck	420kg	925lb
	Roll out deck	120kg	265lb
Safe working load (Roll out deck extended)	Main deck	300kg	661lb
	Roll out deck	120kg	265lb
Platform size		2.73 x 1.4m	8' 11" x 4' 7"
Stowed height	Hand rails up	2.35m	7' 8"
	Hand rails folded down	1.55m	5' 1"
Overall length		3.3m	11' 0"
Overall width		1.45m	4' 9"
Gradeability		35%	
Lift time		24 - 29 seconds	
Lower time		40 - 42 seconds	
Turning radius	Inner	2.5m	8.2'
	Outer	4.75m	15.6'
Maximum wind speed	12.5m/s	45km/h	28mph
Insulation rating		Nil	
Tyres	Poly filled loader lug	23" x 8.9" x 12"	
Overall weight		2410kg	5313lb
Ground clearance	Minimum	170mm	7"
	Mid cabinet	260mm	10.2"
Maximum sound level at platform		86db	
Maximum outrigger load		1420kg	3130lb
Maximum wheel load		1420kg	3130lb
Maximum chassis inclination		2/4 degrees	
Maximum manual force		400N	

General Specifications

■ General Specifications S2755RT

SPECIFICATIONS		S2755RT	
Nominal working height	Wheels	9.9m	32' 6"
	Stabilisers	10.4m	34' 1"
Platform floor height	Wheels	7.9m	25' 11"
	Stabilisers	8.4m	27' 7"
Roll out deck size		1200mm	47"
Drive speed	Below 2.4m	0 to 7kph	0 to 4.3mph
	Above 2.4m	0 to 0.8kph	0 to 0.5mph
Safe working load (Roll out deck NOT extended)	Main deck	300kg	750lbs
Safe working load (Roll out deck extended)	Main deck	180kg	661lbs
	Roll out deck	120kg	264lbs
Platform size		2.73 x 1.4m	8' 11" x 4' 7"
Stowed height	Hand rails up	2.5m	8' 3"
	Hand rails folded down	1.75m	5' 8"
Overall length		3.3m	11' 0"
Overall width		1.45m	4' 9"
Gradeability		35%	
Lift time		24 - 29 seconds	
Lower time		40 - 42 seconds	
Turning radius	Inner	2.5m	8.2'
	Outer	4.75m	15.6'
Power source		Lithium Ion Batteries	
Maximum wind speed	12.5m/s	45km/h	28mph
Insulation rating		Nil	
Tyres	Poly filled loader lug	23" x 8.9" x 12"	
Overall weight		2750kg	6062.7lbs
Ground clearance	Minimum	170mm	7"
	Mid cabinet	260mm	10.2"
Maximum sound level at platform		86db	
Maximum outrigger load		1470kg	3240lbs
Maximum wheel load		1470kg	3240lbs
Maximum chassis inclination		2/4 degrees	
Maximum manual force		400N	

General Specifications

■ Classification

Group A Type 3

■ AS1418.1 Group Classification

C3

■ Commissioning Information

Commissioning of the machine consists of performing the Pre Delivery and Inspection Report (PDIR) satisfactorily.

This PDIR is performed by Snorkel or it's agent before the machine is delivered.

A completed PDIR can be obtained, by request, from the sales agent.

■ About this Manual:

This Maintenance and Repair Parts manual covers current production machines only.

While Snorkel has attempted in every way to confirm that all information in this manual is correct, improvements are being constantly made to the machine that may not be reflected in this manual.

NOTE:

It is recommended that you record the serial and model number of your machine (see page 17 of this chapter). This information is found on the serial number placard.

■ Manual Organization

The Repair Parts Manual consists of six sections with an individual table of contents preceding sections 1 through 4.

Subassemblies and detailed parts are identified by index numbers on the drawings that correspond to the item numbers on the parts listing. When requesting any part, always specify complete part number, description, model and serial number of your unit.

The following is a general description of each section and its contents.

□ General Specifications

The section immediately preceding, contains information relating to the general specifications of the S2255RTE & S2755RTE.

□ Maintenance

The pages immediately following, contain information as to the maintenance schedules - lubricants and procedures for proper lubrication of the unit.

□ Control system information

Provides a description of the EzCal LCD Display, a diagnostic tool for the control system.

□ Repair parts and drawings

Repair Parts (Section 1), contains parts listings and drawings for general mechanical repair parts of all major installations and subassemblies of the unit.

□ Hydraulics

(Section 2), contains parts listings and drawings of hydraulic components installations including hydraulic schematics and individual components

such as cylinders, controls valves and solenoid operated valves.

□ Electrical

Electrical (Section 3), contains listings and drawings of electrical components installations including wiring schematics.

□ Options

Options (Section 4), contains parts listings and drawings of optional installations.

■ Maintenance and Schematics

□ Maintenance information

The parts drawings located in the repair parts sections, are designed for use as a guide for proper disassembly of the machine and components as well as for parts replacement. Always refer to the hydraulic system installation drawings and the electrical wiring diagram before removing or disassembling associated parts.

▲ CAUTION

Do not attempt to disconnect or remove any hydraulic line before reading and understanding all text concerning the system hydraulics. In most cases, disassembly of the machine will be obvious from the drawing.

▲ CAUTION

DO NOT modify this ariel platform without prior written consent of Snorkel Engineering Department.

Modification may void the warranty, adversely affect stability, or affect the operational characteristics of the ariel platform.

When disassembling or reassembling components, complete the procedural steps in sequence. Always check your work to assure that nothing has been overlooked.

The following list is a gentle reminder when disassembling or assembling the machine.

- ✓ Always be conscious of weight.
- ✓ Never attempt to lift heavy objects without the aid of a mechanical device.
- ✓ Do not allow heavy objects to rest in an unstable condition.

Maintenance Information

- ✓ Always make sure work platform is in stowed position - blocked or the weight removed by a suitable lifting device before disconnecting the hydraulic hose from the motor/pump unit to the lift cylinder.
- ✓ When raising a portion of the machine, be sure that adequate blocking is properly positioned - Do not depend on lifting device to hold and secure weight.
- ✓ If a part resists removal, check to see if all fasteners, electrical wiring, hydraulic lines, etc., have been removed or that other parts are not interfering.

Parts should be thoroughly inspected before restoring to service at the time of reassembly. Burrs, nicks or scratches may be removed from machined surfaces by honing or polishing with #600 crocus cloth, followed by a thorough cleaning in an approved cleaning solvent, and blown dry with compressed air. Do not alter the contour of any part. If this operation does not restore the part to a serviceable condition, replace the part.

Replace all O-rings, seals, and gaskets at reassembly. Use new roll pins or cotter pins. Dip all packing rings and seals in hydraulic oil before reassembling in cylinder and manifold installations. Replace any part having imperfect threads. In general, units that have been disassembled can be reassembled by reversing the order of disassembly.

Remember that the service life of a machine can be increased by keeping dirt and foreign materials out of the vital components. Precautions have been taken to safeguard against this; shields, covers, seals and filters are provided to keep air and oil supplies clean; however, these items must be maintained on a scheduled basis in order to function properly.

At any time air or oil lines are disconnected, clean surrounding areas as well as the opening and fittings themselves. As soon as a line or component is disconnected, cap or cover all openings to prevent the entry of dirt or foreign materials.

New parts should remain in their container until they are ready to be used.

Clearly mark or tag hydraulic lines and electrical wiring connections when disconnecting or removing them from unit. This will assure that they are correctly reinstalled.

Proper assembly is critical to the successful rebuilding of any unit. Carefully inspect any parts which are to be reused. If in doubt, replace.

“**SAFETY FIRST**” is a good slogan.

Replace any guards and protective devices that have been removed to carry out maintenance and repair work.

■ Maintenance schedules

Snorkel has established a Preventive Maintenance Schedule that includes:

- ✓ Daily Maintenance (Operator’s Inspection)
- ✓ 90 Day or 150 Hour (frequent) Maintenance
- ✓ Yearly or 500 Hour (annual) Maintenance,

These schedules should ensure the detection of any defective, damaged or improperly secured parts and provide information regarding lubrication and other minor maintenance items.

The Maintenance Schedule following, outlines the requirements of these maintenance checks for each time interval. The Operator’s Pre-operational inspection must be performed by a trained operator. All other maintenance and inspections must be performed by a trained service technician only.

Note that the 90 Day or 150 hour (frequent) and yearly or 500 hour (annual) Maintenance, require use of the Preventive Inspection Maintenance Checklist to pinpoint all inspection items. Retain a copy of these forms for your records.

They also require that all placards and decals on the unit are to be inspected.

All placards and decals must be in place and legible. Use the placards installation drawing and parts listing in the repair parts section 1 of this manual to check these placards and decals.

Snorkel recommends that you make additional copies of the Preventive Inspection Maintenance Checklist forms for your use in performing these

▲ DANGER

Failure to perform the Preventive Maintenance at the intervals outlined in the Maintenance Schedule may result in a unit being operated with a defect that could result in INJURY or DEATH of the unit operator. DO NOT allow a unit to be operated that has been found to be defective.

Repair all defects before returning the unit to service

■ Daily Maintenance

Pre-operational inspection

(Set the KEY SWITCH to off before starting this inspection).

COMPONENTS	SERVICE REQUIRED
Rough terrain scissor interlock tests (see page in this section)	Perform the tests to ensure the system is functioning
Platform entrance gate	Visually inspect (installation, operation)
Wiring harness and connectors	Visually inspect (installation, condition)
Battery terminals	Visually inspect (installation)
Battery fluid level	Visually inspect (covers plates)
Hydraulic oil reservoir cap	Visually inspect (installation)
Hydraulic oil level	Check fluid level (at line on side of tank)
Hydraulic oil leaks	Visually inspect (hoses, tubes)
Tires and wheels	Visually inspect (condition)
Bolts and fasteners	Visually inspect (looseness)
Structural damage & welds	Visually inspect (weld cracks, dents)
Platform guardrails	Visually inspect (condition)
Lanyard anchor points (option)	Visually inspect (condition)
Bubble level indicator	Visually inspect (condition)
Guides, rollers and slides	Visually inspect (condition)
Non slip tread grip	Visually inspect (condition)
Wrist support	Visually inspect (condition)
Operator manual	Visually inspect (that the manual is in the holder)
Placards, decals and operators manual	Visually inspect (installation and condition)
START THE MOTOR FROM THE BASE CONTROL PANEL TO CHECK THE FOLLOWING	
Charging system	No faults on the display
Ground controls	Actuate and visually inspect for proper operation
Emergency lowering (from the ground)	Check operation (causes correct motion)
Flashing light	Check operation
Safety prop	Check operation
Parking brakes	Check operation
Optional items	Check operation
START THE MOTOR FROM THE PLATFORM TO CHECK THE FOLLOWING	
Platform controls	Actuate and visually inspect for proper operation
Emergency lowering (from the platform)	Check operation

Maintenance Information

■ 90 Day or 150 Hour Maintenance (Trained Service Technician)

COMPONENTS	SERVICE REQUIRED	RECOMMENDED LUBRICANT OR FURTHER INSTRUCTIONS
Daily maintenance	Perform maintenance as per schedule	
Preventive inspection maintenance checklist	Perform inspection, complete form	Retain copy of checklist
Placards & decals inspection	Inspect using drawing and parts listing in section 1 (repair parts)	Replace any missing or unreadable decals/placards
Door hinges and latches	Lubricate	SAE 10W oil or spray lube
Tie rods	Check pin keeper and condition	
Steer cylinder ends	Check pin keeper and condition	
Batteries	Check specific gravity	1.260/1.275 at 80° F.
Platform lift capacity	Check if platform can lift maximum load	
Platform lift/lower speeds	Check smooth operation and speeds	
Hydraulic return filter	Replace Filter	Replace if dirty
Slide pads	Check condition	
Scissor arm bearings	Check condition	

■ Yearly or 500 Hour Maintenance (Trained Service Technician)

COMPONENTS	SERVICE REQUIRED	RECOMMENDED LUBRICANT OR FURTHER INSTRUCTIONS
90 day or 150 hour maintenance	Perform maintenance per schedule	
Hydraulic oil reservoir	Clean and replace fluid	Shell Tellus 32 or similar
Hydraulic return filter	Replace	After 1st. 50 hours, thereafter at recommended interval
Hydraulic pressures	Check pressures	
Platform controller	Check operation	
Base controls	Check operation	

■ Lubricants

Specific lubricants as recommended by Snorkel, should be used in maintaining your unit. If in doubt regarding the use of lubricants other than those listed, contact Snorkel.

□ Pressure gun application

Service all fittings as indicated in the Maintenance Schedule. Wipe away all excess lubricant from exposed surfaces. Over lubrication can collect dirt and foreign matter which acts as an abrasive.

NOTE

Any time the work platform is elevated to perform maintenance work, properly position the safety bar as outlined on the safety prop decal.

▲ DANGER

DO NOT reach through scissors mechanism unless the safety prop is properly positioned.

INJURY or DEATH could occur if the platform is not supported by the safety prop and should suddenly drop onto personnel performing maintenance work under the raised platform.

□ King pins

King pin bearings are self lubricating. Check for signs of damage and excessive wear as outlined in the maintenance schedule.

□ Tie rods

Tie rod bearings are self lubricating. Check for damage and excessive wear as outlined in the maintenance schedule.

□ Steer cylinder end

Steer cylinder ends are self lubricating. Check for damage and excessive wear as outlined in the maintenance schedule.

□ Wheel bearings drive wheels

Wheel bearings used on drive wheels are sealed bearings and do not require lubrication.

□ Hydraulic oil reservoir

The fluid level should be kept level with the indicator line on the side of the reservoir and should be checked with all cylinders fully retracted and the platform in the stowed position.

The interior of the reservoir should be wiped out and cleaned each time the hydraulic oil is changed. The reservoir filler/breather cap should be removed and the cap breather cleaned yearly with Kerosene, Fuel Oil or other solvent.

It is absolutely necessary that only new, clean hydraulic oil is added.

▲ CAUTION

If it becomes necessary to add or use an oil other than the recommended fluid, it is important that it be compatible and equivalent to the factory fill. Local oil suppliers can generally furnish this information.

If questions still remain, contact Snorkel for further information.

□ Return filter

On scissorlift models, the hydraulic oil return filter is mounted in the left hand tray assembly close to the hydraulic oil reservoir.

The filter element is a throw-away type filter and should be changed after the initial break-in period (approximately 50 hours operation time).

The filter condition should be checked at the 90 day or 150 hour Preventive Inspection Maintenance interval or more frequently under extreme working conditions.

When changing the filter element, the oil inside of the filter element, should be examined for deposits of metal cuttings, which if present, could indicate

Maintenance Information

excessive wear in some of the system components.

Door hinges and latches

Door hinges and latches may be lubricated as required with spray lubrication or SAE 10W oil.

After lubricating, remove any excess oil or over-spray so it will not collect dirt and debris.

Slide pads

Check slide pads for excessive wear and replace as required.

Scissor arm bearings

Scissor arm bearings are self lubricating. Check bearings for signs of damage and excessive wear as outlined in the maintenance schedule.

■ Batteries

The battery will have longer life if the water level is maintained and it is kept charged. The unit will have better starting characteristics with a fully charged battery.

In cold weather the battery should be maintained at full charge to keep from freezing. An extremely low or dead battery can freeze in cold weather. Make sure connections are clean and tight.

Check specific gravity of the battery per maintenance schedule.

Make sure charging equipment is operating properly.

▲ DANGER

Lead-acid batteries contain sulfuric acid which will damage eyes or skin on contact. When working around batteries, ALWAYS wear a face shield to avoid acid in eyes.

If acid contacts eyes, flush immediately with clear water and get medical attention.

Wear rubber gloves and protective clothing to keep acid off skin, if acid contacts skin, wash off immediately with clear water.

▲ DANGER

Lead-acid batteries produce flammable and explosive gases. NEVER allow smoking, flames or sparks around batteries.

■ Rough Terrain Scissor Interlock Tests

The Snorkel S/RT Series are fitted with a very important safety feature, a 'Stabiliser/axle/scissor Interlock' system that prevents the stabilisers being moved while the platform is elevated, and prevents the platform being raised if the rear axle is oscillated and the stabilisers are not set or the machine is tilted.

The correct operation of the Stabiliser/scissor Interlock is critical to ensure that the Scissor is operated safely and with minimum risk.

▲ DANGER

To ensure the interlock system is functioning correctly, before operating the Scissor the following test must be carried out prior to operation each day, in conjunction with all other relevant daily pre-operational checks:

Stabiliser locked out when platform elevated test

1. Position the machine on a firm level surface.
2. From the platform controls, start the engine and allow it to warm up.
3. Raise the platform above the elevation height (approx. 1.5 metres, depending on model).
4. Operate the right front stabiliser extend switch while watching the stabiliser leg for movement
5. If the stabiliser leg moves, release the switch **immediately!**

Lower the platform fully, remove the machine from service and affix a Danger Tag warning others that the machine is not to be used. In the first instance contact the owner who will then contact the Snorkel branch or authorised agent to inspect, repair and test the machine before allowing it to be placed back into service.

If the stabiliser leg does not move, continue to step 6

6. Lower the platform to the stowed position

Elevation locked out when axles not stowed test

7. Park the machine such that one rear wheel is in a depression (approx. 100mm deep) such that the axle switch opens. A kerb or gutter may be sufficient

8. Raise the platform above the elevation height, (approx. 1.5 metres, depending on model).
9. At this point, an alarm will sound and further lift or drive will be disabled.
10. If there is no alarm and/or the machine continues to allow lift **stop immediately!** Lower the platform fully, remove the machine from service and affix a Danger Tag warning others that the machine is not to be used. In the first instance contact the owner who will then contact the Snorkel branch or authorised agent to inspect, repair and test the machine before allowing it to be placed back into service.
11. Repeat steps 7-10 for the opposite rear wheel.
12. Lower the platform to the stowed position




Elevation locked out when tilted test

13. Park the machine on ground known to exceed the tilt limit specified on the serial plate.
14. Raise the platform above the elevation height, (approx. 1.5 metres, depending on model).
15. At this point, an alarm will sound and further lift or drive will be disabled.
16. If there is no alarm and/or the machine continues to allow lift **stop immediately!** Lower the platform fully, remove the machine from service and affix a Danger Tag warning others that the machine is not to be used. In the first instance contact the owner who will then contact the Snorkel branch or authorised agent to inspect, repair and test the machine before allowing it to be placed back into service.
17. Lower the platform to the stowed position
18. If all steps have been followed and the Stabiliser/scissor interlock is functioning correctly, the machine can now be used in accordance with the operating instructions provided in the Operators Manual.

Maintenance Information

■ Torque chart

NOM SIZE X PITCH	TENSILE STRESS AREA A _s (mm ²)	PROPERTY CLASS 8.8			PROPERTY CLASS 10.9		
		CLAMP LOAD W (N)	TORQUE (N.m)		CLAMP LOAD W (N)	TORQUE (N.m)	
			DRY k=0.20	LUBED k=0.15		DRY k=0.20	LUBED k=0.15
M3 x 0.5	5.03	2 200	1.32	0.99	2 990	1.79	1.34
M3.5 x 0.6	6.78	2 960	2.07	1.55	4 030	2.82	2.11
M4 x 0.7	8.78	3 830	3.07	2.30	5 220	4.17	3.13
M5 x 0.8	14.2	6 200	6.20	4.65	8 430	8.43	6.33
M6 x 1	20.1	8 770	10.5	7.90	11 950	14.3	10.8
M8 x 1.25	36.6	15 975	25.6	19.2	21 750	34.8	26.1
M8 x 1	39.2	17 100	27.4	20.5	23 275	37.3	27.9
M10 x 1.5	58.0	25 325	51	38.0	34 450	69	52
M10 x 1.25	61.2	26 725	53	40.1	36 350	73	55
M12 x 1.75	84.3	36 800	88	66	50 075	120	90
M12 x 1.25	92.1	40 200	96	72	54 700	130	98
M14 x 2	115	50 200	140	105	68 300	190	145
M14 x 1.5	125	54 550	155	115	74 250	210	155
M16 x 2	157	68 525	220	165	93 250	300	225
M16 x 1.5	167	72 900	235	175	99 200	320	240
M20 x 2.5	245	106 950	430	320	145 550	580	435
M20 x 1.5	272	118 750	475	355	161 550	650	485
M24 x 3	353	154 100	740	555	209 700	1 010	755
M24 x 2	384	167 600	805	605	228 100	1 100	820
M27 x 3	459	200 350	1 080	810	272 650	1 470	1 100
M27 x 2	496	216 500	1 170	875	294 600	1 590	1 150
M30 x 3.5	561	244 900	1 470	1 100	333 250	2 000	1 500
M30 x 3	580	253 150	1 520	1 140	344 500	2 070	1 550
M30 x 2	621	271 050	1 630	1 220	368 850	2 210	1 660
M33 x 3.5	694	302 950	2 000	1 500	412 250	2 720	2 040
M33 x 2	761	332 200	2 200	1 640	452 050	2 980	2 240
M36 x 4	817	356 600	2 570	1 930	485 300	3 490	2 620
M36 x 3	865	377 600	2 720	2 040	513 800	3 700	2 780
M39 x 4	976	426 000	3 320	2 490	579 750	4 520	3 390
M39 x 3	1 028	448 700	3 500	2 630	610 650	4 760	3 570
M42 x 4.5	1 121	489 300	4 110	3 080	665 850	5 590	4 200
M42 x 3	1 206	526 400	4 420	3 320	716 350	6 020	4 510
M45 x 4.5	1 306	570 050	5 130	3 850	775 750	6 980	5 240
M45 x 3	1 398	610 250	5 490	4 120	830 400	7 470	5 610
M48 x 5	1 473	642 950	6 170	4 630	874 950	8 400	6 300
M48 x 3	1 604	700 150	6 720	5 040	952 800	9 150	6 860

Grade marking   

■ To order service or repair parts

When placing an order for service or repair parts, please have the following information available for your machine.

- ✓ Machine model number
- ✓ Machine serial number
- ✓ Snorkel part number
- ✓ Description of part
- ✓ Quantity of parts required
- ✓ Your purchase order number
- ✓ Address for order to "Ship To"
- ✓ Your desired shipment method

All correspondence relative to this unit, such as field reports, discrepancy reports, requests for service information, etc., should be directed to:

Snorkel New Zealand
36 Bruce Road
P.O. Box 1041
Levin 5500
New Zealand

Phone: +64 06 368-9168
Fax: +64 06 368-9164

Attention: Parts Department

□ Manuals

Manuals are available from Snorkel to support any of the machines that we produce.

The specific manuals for S2255RTE - S2755RTE are as follows:

- ✓ Operator's Manual
Snorkel part number - 15382-1
- ✓ Repair Parts Manual
Snorkel part number - 15382-2

■ Responsibilities

It is the sole responsibility of owners and users of Elevating Work Platforms to ensure that all persons owning or using an MEWP have read, understood, and abide by all local regulations. Ultimately, compliance to those local regulations is the responsibility of the user and their employer.

Local regulations may take the form of (but are not limited to): Codes of Practise, Best Practise Guides, Standards e.g. AS2550.10, ANSI manual of responsibilities for Dealers, Owners, Users, Operators, Lessors and lessees etc.

■ Product Warranty

For full terms of your warranty policy refer to the rear of this manual after the Index section, or check with your Snorkel distributor, or check the Snorkel website.

Record machine information here:

Model number*

Serial number*

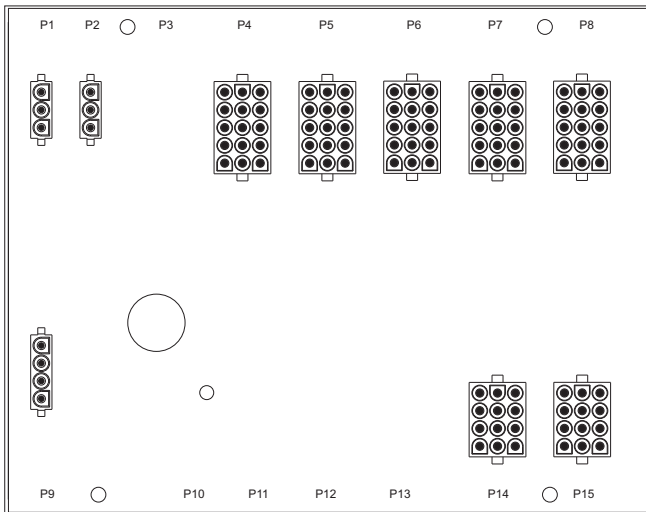
Date of purchase

Purchased from

Snorkel dealer or distributor

* This information is found on the serial number placard attached to your machine.

■ Scissor Lift Control System



GP400C Control Board



EZcal

The EzCal LCD Display is a diagnostic tool for the control system. It is intended to be used primarily by trained technicians. The EzCal LCD display gives some information for the machine operator.

□ Work time

The EzCal default state is to display machine work time. It accumulates time when ever the control system is active. This can be re set by a qualified technician. This value can be used to tell when periodic maintenance is due.

□ Water

If the engine becomes too hot the EzCal LCD display will show “**Shut down - Engine Too Hot**”

□ Alternator

If the alternator is not providing sufficient charge the EzCal LCD display will show “**Shut down - Not Charging**”

□ Oil Pressure

If the engine does not have sufficient oil pressure the EzCal LCD display will show “**Shut down - No Oil Pressure**”

□ Other messages

Other general messages may be displayed at the time a machine state is not allowed e.g. Functions Locked – Outriggers.

This is a guide to the operator to understand why the machine is not doing what is desired. The messages encompass many possible issues.

In the above case it could mean that the outriggers can not be used because the platform is raised, or it could mean that platform can not be raised because the outriggers are not properly set.

■ GP400 Menus Available with EZcal

When the EZcal LCD is in Technician Mode, a two line display shows various menus and settings.

At any time the top line of the display describes the currently selected menu and the bottom line shows the currently selected item in that menu.

Six buttons on EZcal allow easy navigation through the menus:

← and → change the selected item (the bottom line display)

ENTER enters the selected new menu when available (top line display changes)

↑ and ↓ adjusts the selected item when available (at “ACCESS LEVEL” 1)

ESC exits the current menu back to the previous menu

To enter Technician Mode press and hold the **ESC** key for 10 seconds with the ignition on. The display will change from showing work time to:

□ Help Menu:

Press enter for help.

Refer to the menu structure to navigate the menus.

Auto Level

The default access level is 3.

In this level only viewing of data is allowed.

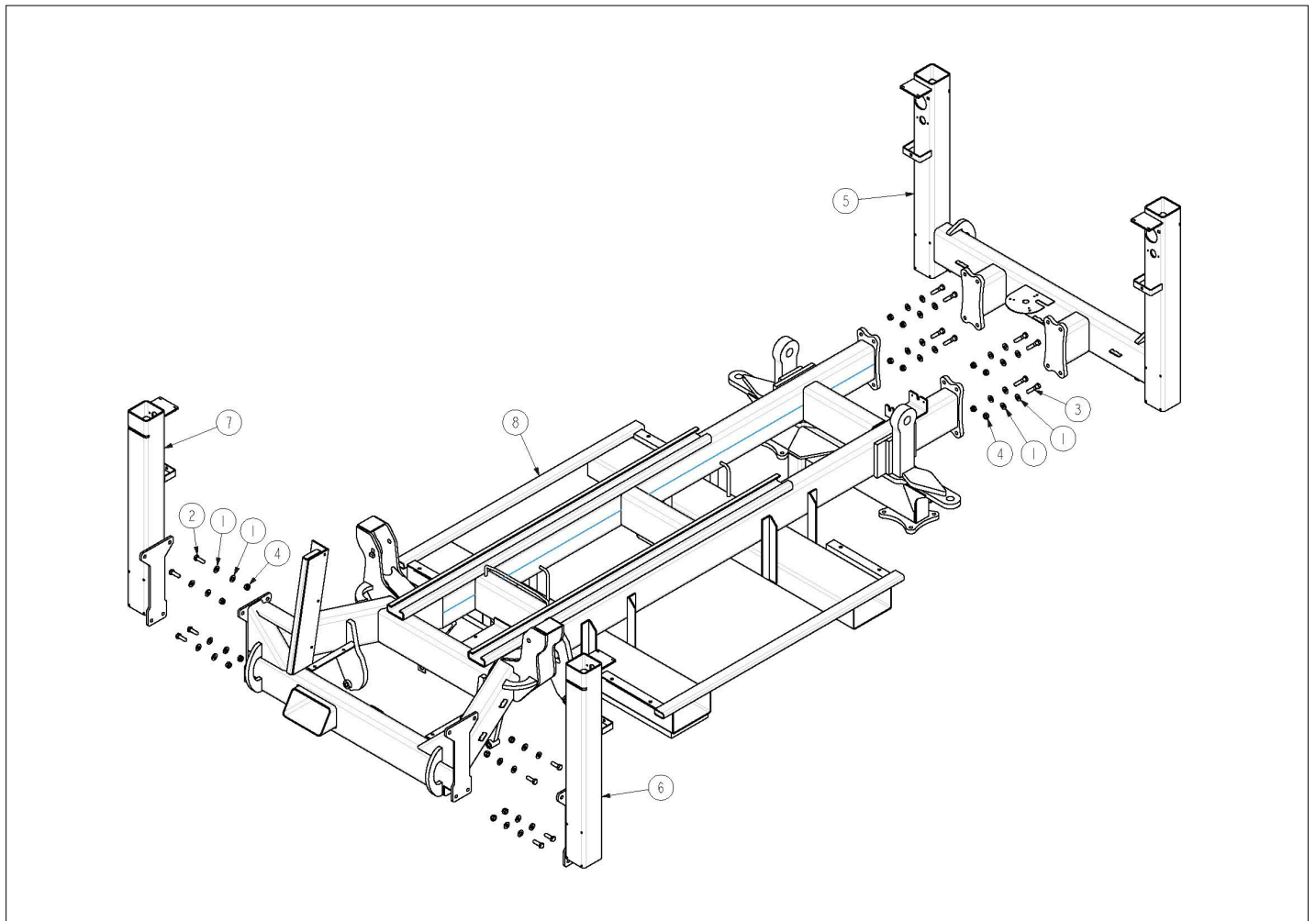
STOP: If you are not a trained technician do not use Technician Mode in Access level 1 or 2. Death or serious injury can result from unauthorized adjustments and setups.

Access level 2 is required to make adjustments to values and to make calibrations.

Access level 1 is required to make adjustments to values, calibrations, and change setups.

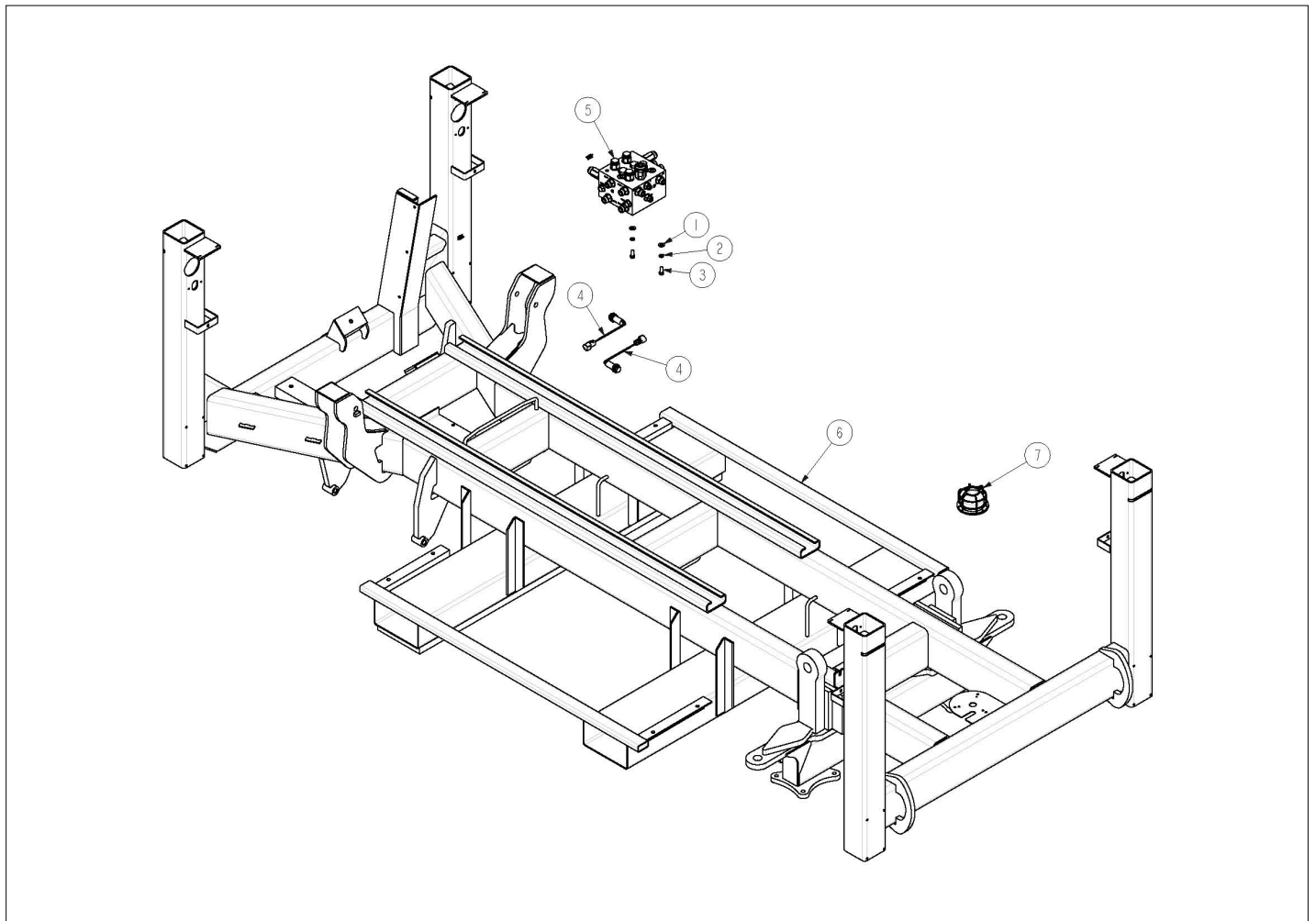
Access Codes to change between Access Levels prevent inadvertent adjustments.

Repair Parts



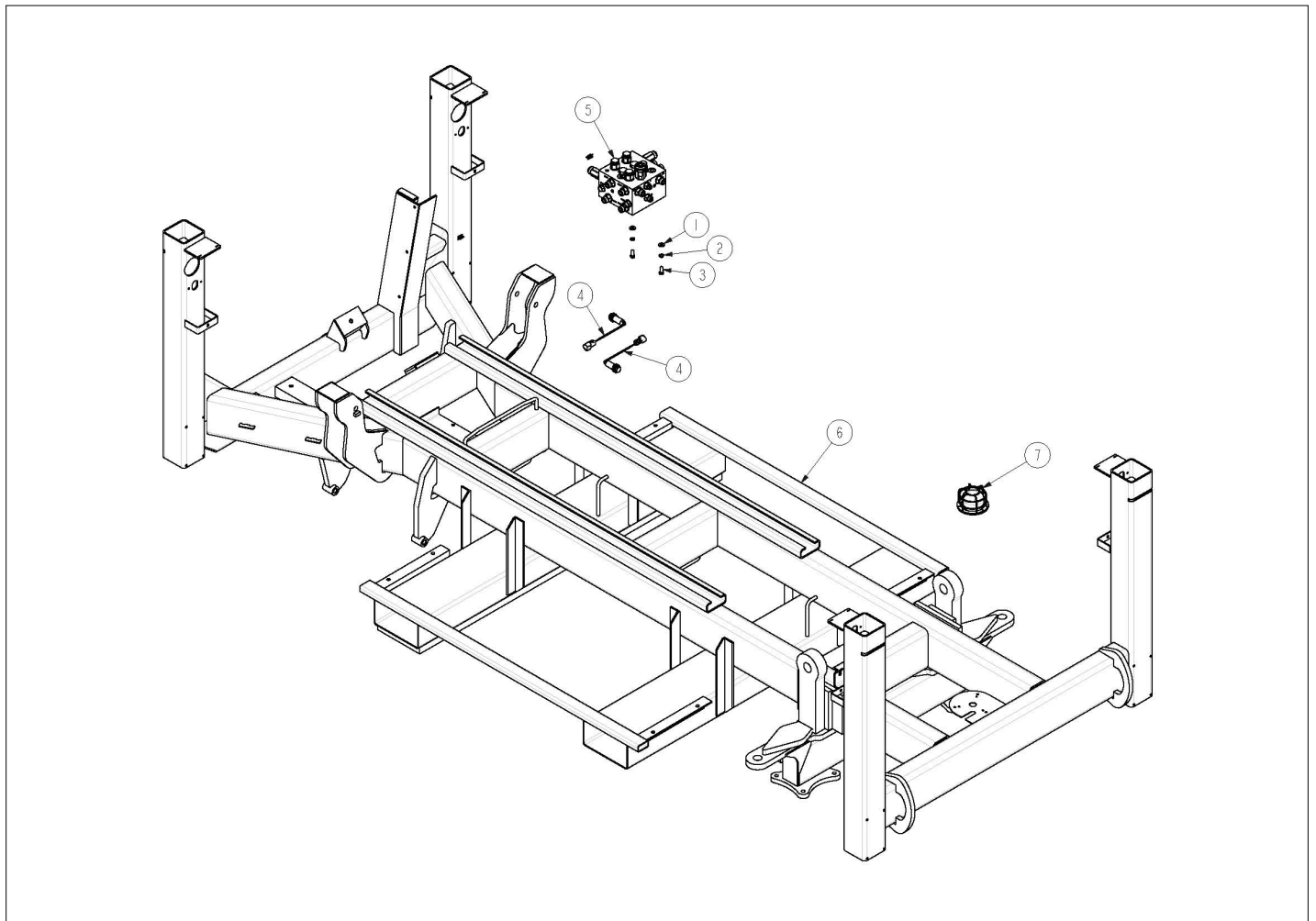
Item	Part No.	Name	Qty	Uom
1	FLWM1210CZ	WASHER FLAT M12 10.9 C	32	EA
2	3610-12035	Set screw M12 x 35 HT	8	EA
3	HH1217F10CZ050	HHCS M12X1.75 F 10.9 C 50	8	EA
4	NL121710CZ	NUT HEX NL M12X1.75 10.9 C	16	EA
5	15450	Stabiliser Weldment - Bolt On Front Sxx55RT	1	EA
6	15451-04	Stabiliser Housing Weld - Removable RR	1	EA
7	15451-05	Stabiliser Housing Weld - Removable LR	1	EA
8	15454	Base Frame Weld S2755RTE Removable Stabs	1	EA
8	15453	Base Frame Weld S2255RTE Removable Stabs	1	EA

Repair Parts



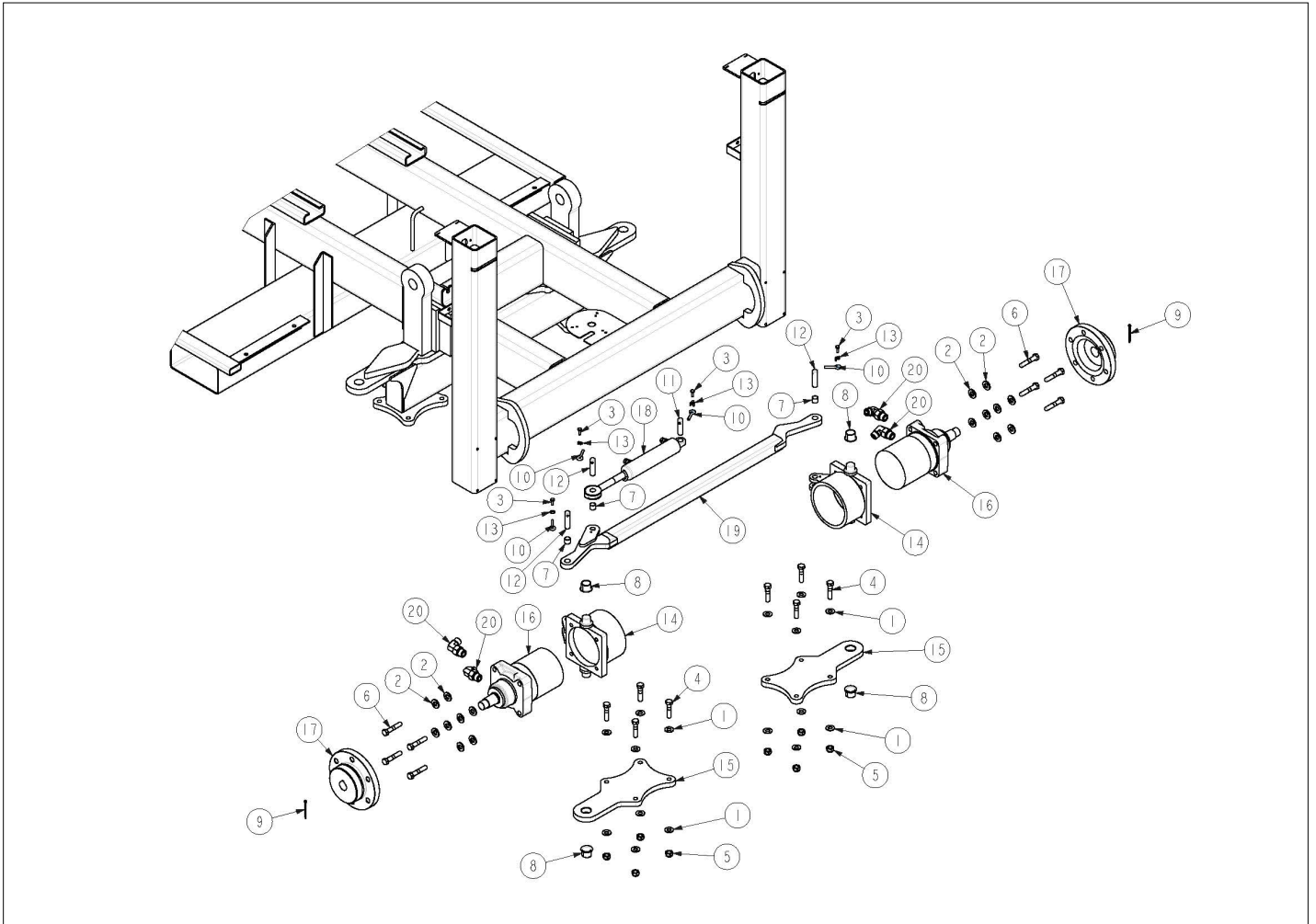
Item	Part No.	Name	Qty	Uom
1	510588-008	M8, plain washer	2	EA
2	056021-008	M8 SPRING WASHER	2	EA
3	058492-020	M8 x 20 HEX. HD. SCREW - 8.8	2	EA
4	15085-03	Axle Prox	2	EA
5	15089	4WD Manifold Assembly	1	EA
6	15157	S2255RT Base Frame Weld	1	EA
7	515611-000	BEACON ASSEMBLY-AMBER	1	EA

Repair Parts



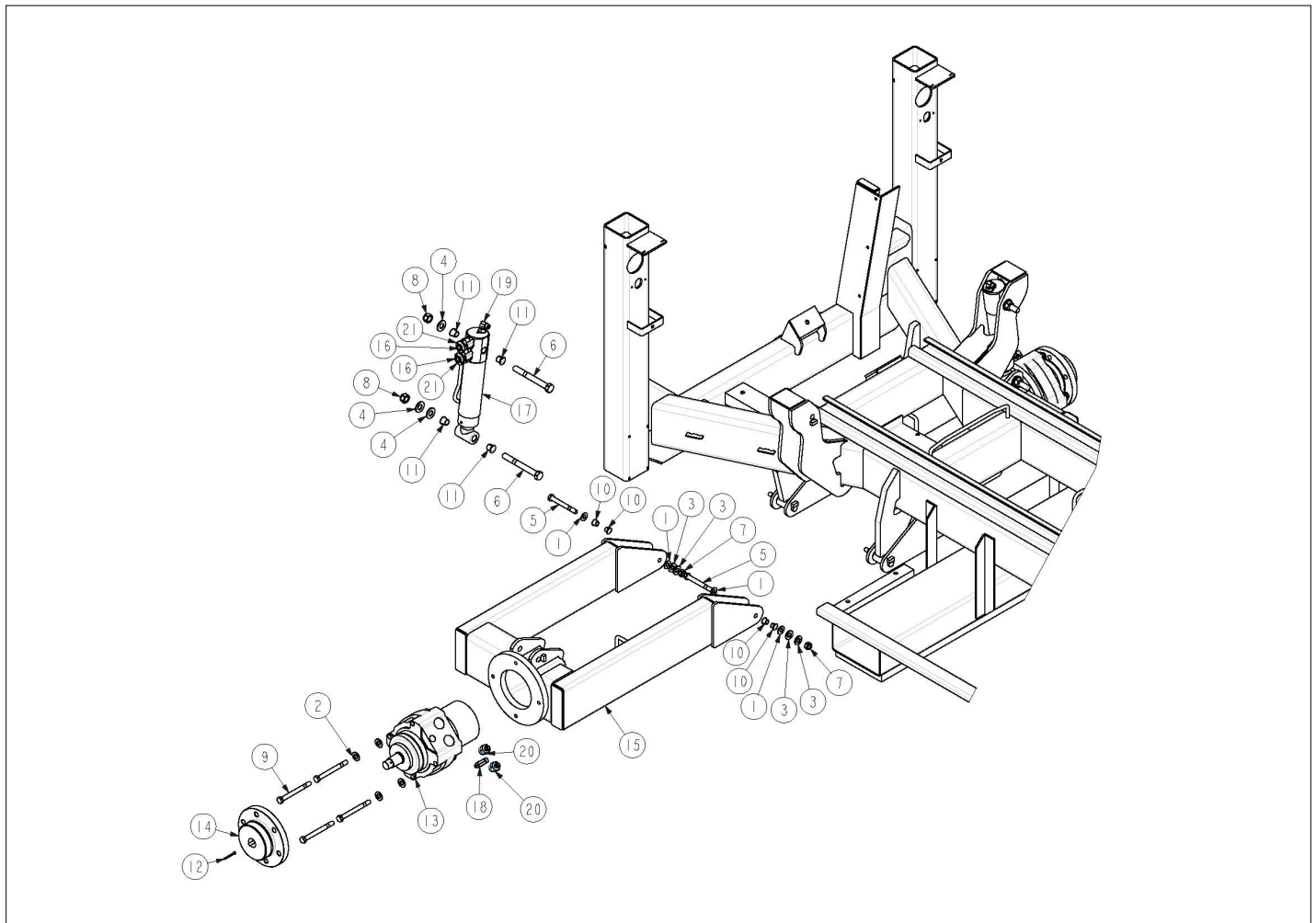
Item	Part No.	Name	Qty	Uom
1	510588-008	M8, plain washer	2	EA
2	056021-008	M8 SPRING WASHER	2	EA
3	058492-020	M8 x 20 HEX. HD. SCREW - 8.8	2	EA
4	15085-03	Axle Prox	2	EA
5	15089	4WD Manifold Assembly	1	EA
6	15208	S2755RT Base Frame Weld	1	EA
7	515611-000	BEACON ASSEMBLY-AMBER	1	EA

Repair Parts



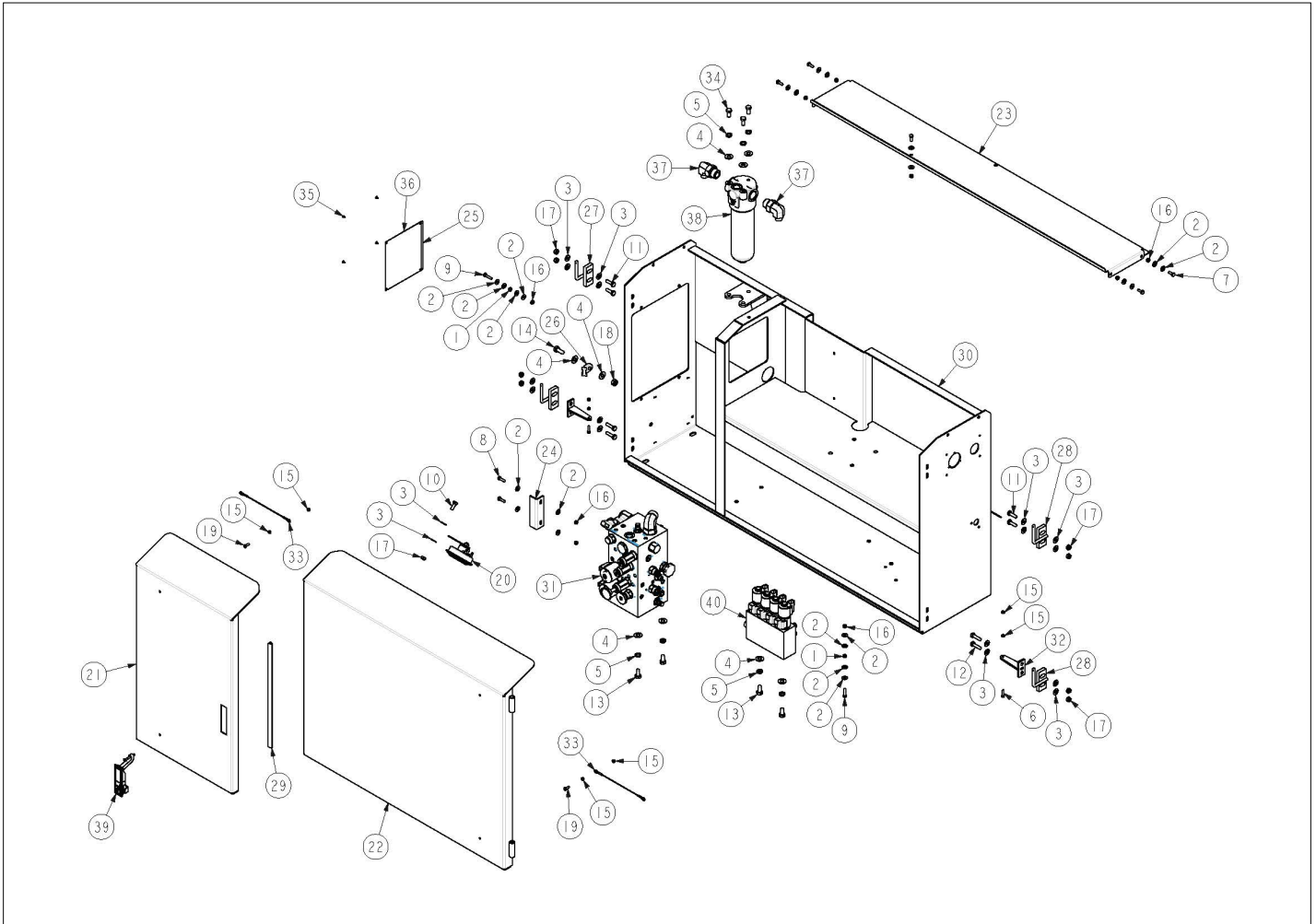
Item	Part No.	Name	Qty	Uom
1	FLWM1210CZ	WASHER FLAT M12 10.9 C	16	EA
2	3603-12HD	Plain Washer	16	EA
3	058491-016	BOLT HEX SET SCREW DIN933 M6 X 16MM 8.8 ZINC PLATED	4	EA
4	HH1217F10CZ050	HHCS M12X1.75 F 10.9 C 50	8	EA
5	NL121710CZ	NUT HEX NL M12X1.75 10.9 C	8	EA
6	3616-12060	Metric Bolt Grade 10.9	8	EA
7	3624-27	Permaglide Bush	3	EA
8	3626-1	Flanged Permaglide Bush	4	EA
9	3636-1	Split Pin	2	EA
10	8628-4	PIN KEEPER 6MM PLATED	4	EA
11	9311	Pin 5/8" x 53	1	EA
12	9319	Pin 15 x 56	3	EA
13	11492-1	LOCKTAB - 6mm	4	EA
14	11590	Swivel Housing, Kingpin	2	EA
15	11595-9	Bearing Support, Lower	2	EA
16	11601	Wheel Motor	2	EA
17	11629	Wheel Hub	2	EA
18	11699	Steer Cylinder	1	EA
19	12303	Steering Rod	1	EA
20	100434-014	FTG, 90°, 8MORFF X 10MORB, PARKER 8-10 C5OLO	4	EA

Repair Parts



Item	Part No.	Name	Qty	Uom
1	FLWM1210CZ	WASHER FLAT M12 10.9 C	8	EA
2	3603-12H	Plain Washer	8	EA
3	3603-12HD	Plain Washer	8	EA
4	510590-016	Washer, SteelFlatWasher DIN125E M16 Galvanised	6	EA
5	056065-100	HHCS M12 x 1.75 x 100 G8.8 DIN 931	4	EA
6	HH1217F10CZ050	HHCS M12X1.75 F 10.9 C 50	4	EA
7	NL121710CZ	NUT HEX NL M12X1.75 10.9 C	4	EA
8	3611-16	Metric Nyloc Nut	4	EA
9	3616-12120	Metric Bolt Grade 10.9	8	EA
10	3626-2	Flanged Permaglide Bush	8	EA
11	3626-3	Flanged permaglide bush	8	EA
12	3636-1	Split Pin	2	EA
13	11600	Wheel Motor 335cc	2	EA
14	11629	Wheel Hub	2	EA
15	12296	Swing Arm Weld	2	EA
16	12835-1	Cartridge, Solenoid - Poppet, 2-Way, NC	4	EA
17	15204	Cylinder - Dual Lock	2	EA
18	100434-002	FITTING, 4MORFF X 4MORB 90 DEG	2	EA
19	100434-004	FTG, 90°, 4MORFF X 6MORB, PARKER 4-6 C5OLO	2	EA
20	511327-000	Adapter - JICM -> UNO Straight, 9/16 -> 7/8	4	EA
21	6019180	Coil - 08 12V Deutsch DT Connector	4	EA

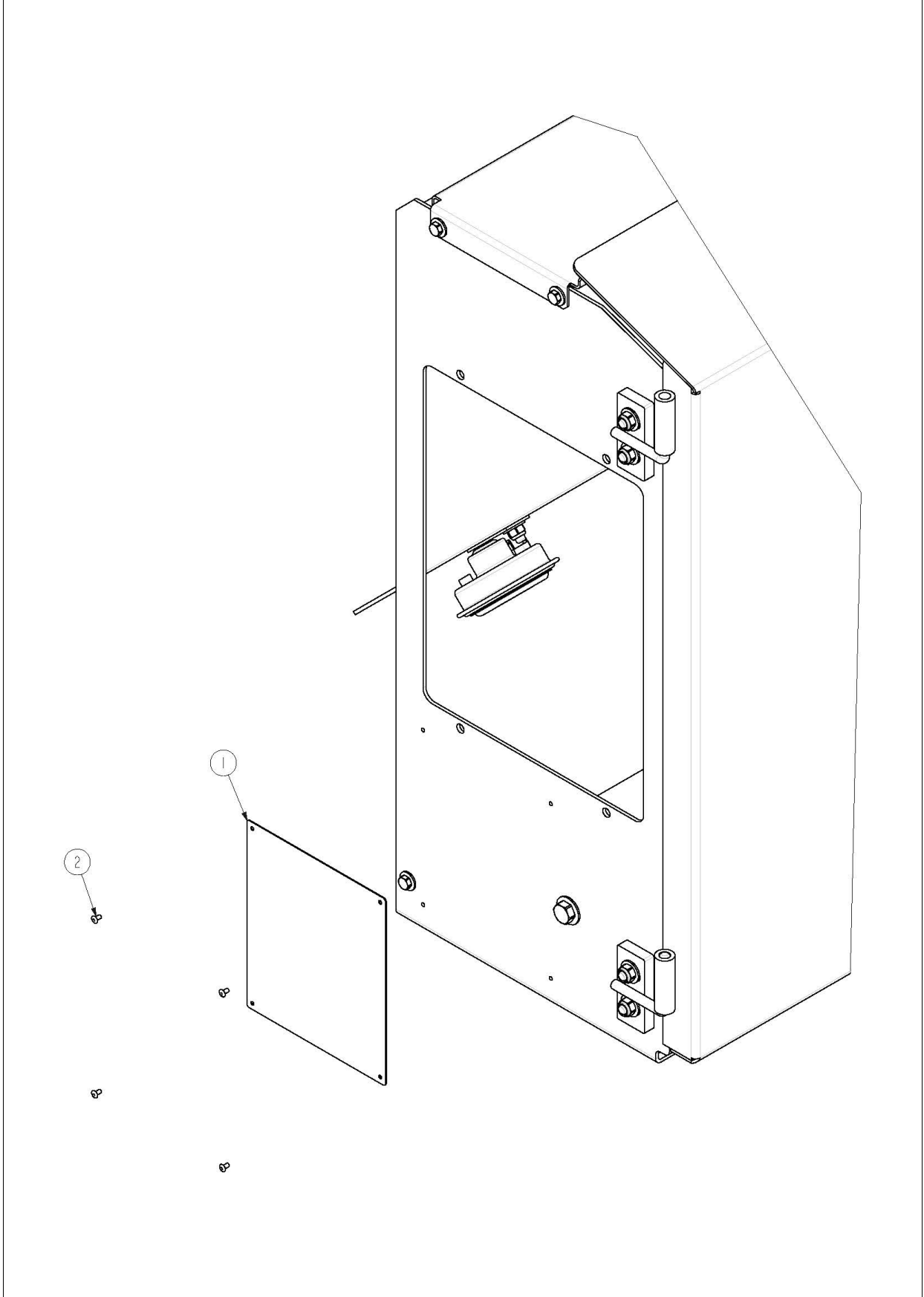
Repair Parts



Item	Part No.	Name	Qty	Uom
1	056067-006	Nut, HexNut DIN934 M6 8.0 Zinc	2	EA
2	3603-06	Plain Washer	22	EA
3	510588-008	M8, plain washer	18	EA
4	3603-10	Plain Washer	9	EA
5	056021-010	Washer, SpringWasher DIN127B M10 ZincPlated	7	EA
6	3610-05020	Metric Bolt	2	EA
7	058491-016	BOLT HEX SET SCREW DIN933 M6 X 16MM 8.8 ZINC PLATED	5	EA
8	058491-020	Bolt, HexSetScrew DIN933 M6 x20mm 8.8 ZincPlated	2	EA
9	058491-025	Bolt HexSetScrew DIN933 M6 x 25mm 8.8 ZincPlated	2	EA
10	058492-020	M8 x 20 HEX. HD. SCREW - 8.8	1	EA
11	HH0812F10CZ025	HHCS M8X1.25 F 10.9 C 25	4	EA
12	058492-030	Bolt, HexSetScrew DIN933 M8 x 30mm 8.8 ZincPlated	4	EA
13	058493-020	Bolt, HexSetScrew DIN933 M10 x 20mm 8.8 ZincPlated	4	EA
14	058508-025	HHCS M10X1.5 F 10.9 C 25	1	EA
15	3611-05	Metric Nyloc Nut	8	EA
16	NL061010CZ	NUT HEX NL M6X1 10.9 C	9	EA
17	NL081210CZ	NUT HEX NL M8X1.25 10.9 C	9	EA
18	NL101510CZ	NUT HEX NL M10X1.5 10.9 C	1	EA
19	3668-05016	Button Head Socket Screw	2	EA
20	4381	Horn	1	EA
21	11679	Cabinet Door - Small	1	EA
22	11680	Cabinet Door - Large	1	EA
23	12313-10	Top Panel	1	EA
24	12313-11	Latch Bracket	1	EA
25	12833-4	Decal, Serial Number Plate	1	EA
26	13164	Cable Tie Mount - M10	1	EA

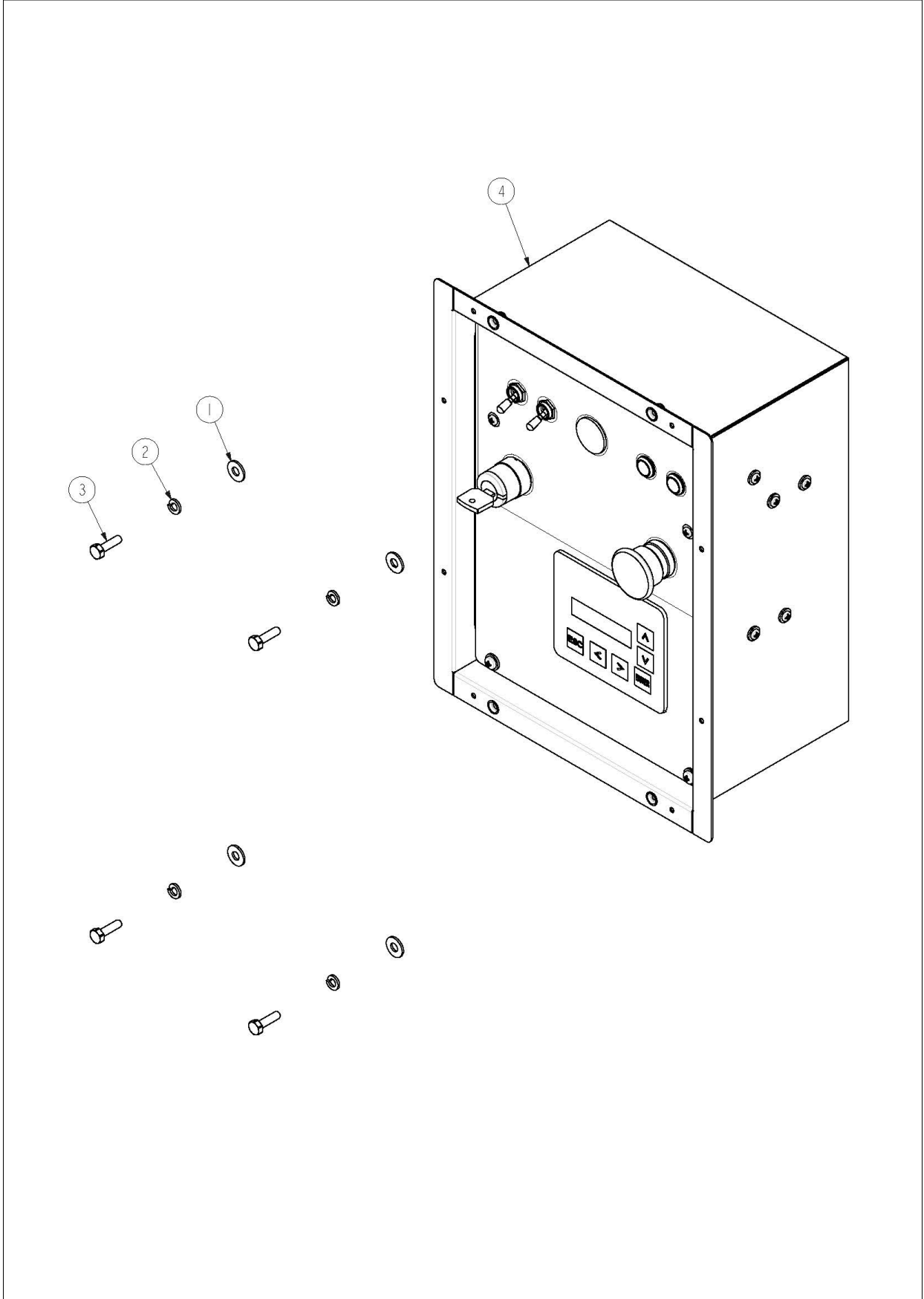
Item	Part No.	Name	Qty	Uom
27	13869-01	Cabinet Hinge, LH	2	EA
28	13869-02	Cabinet Hinge, RH	2	EA
29	13872	Rubber Channel Section	1	EA
30	13969	Cabinet - Control Side	1	EA
31	15088-01	Main Manifold Assembly	1	EA
32	15361	Door Stop	2	EA
33	15361-03	Lanyard - Eye to Eye 8"	2	EA
34	60017-006	1" x3/8 UNC Bolt	3	EA
35	60027-013	Rivet 1/8 x 5/32	4	EA
36	0070901	PLAC CAUTN SERIAL NUMBER	1	EA
37	100434-015	Hyd Fitting - 90 Elbow ORFS(08) - SAE(12)	2	EA
38	6019325	MP FMM050 PRESSURE FILTER	1	EA
39	8342416-3	Latch - Adjustable Trigger, Key 508CH	1	EA
40	13781A	Stabiliser Manifold Assembly	1	EA

Repair Parts



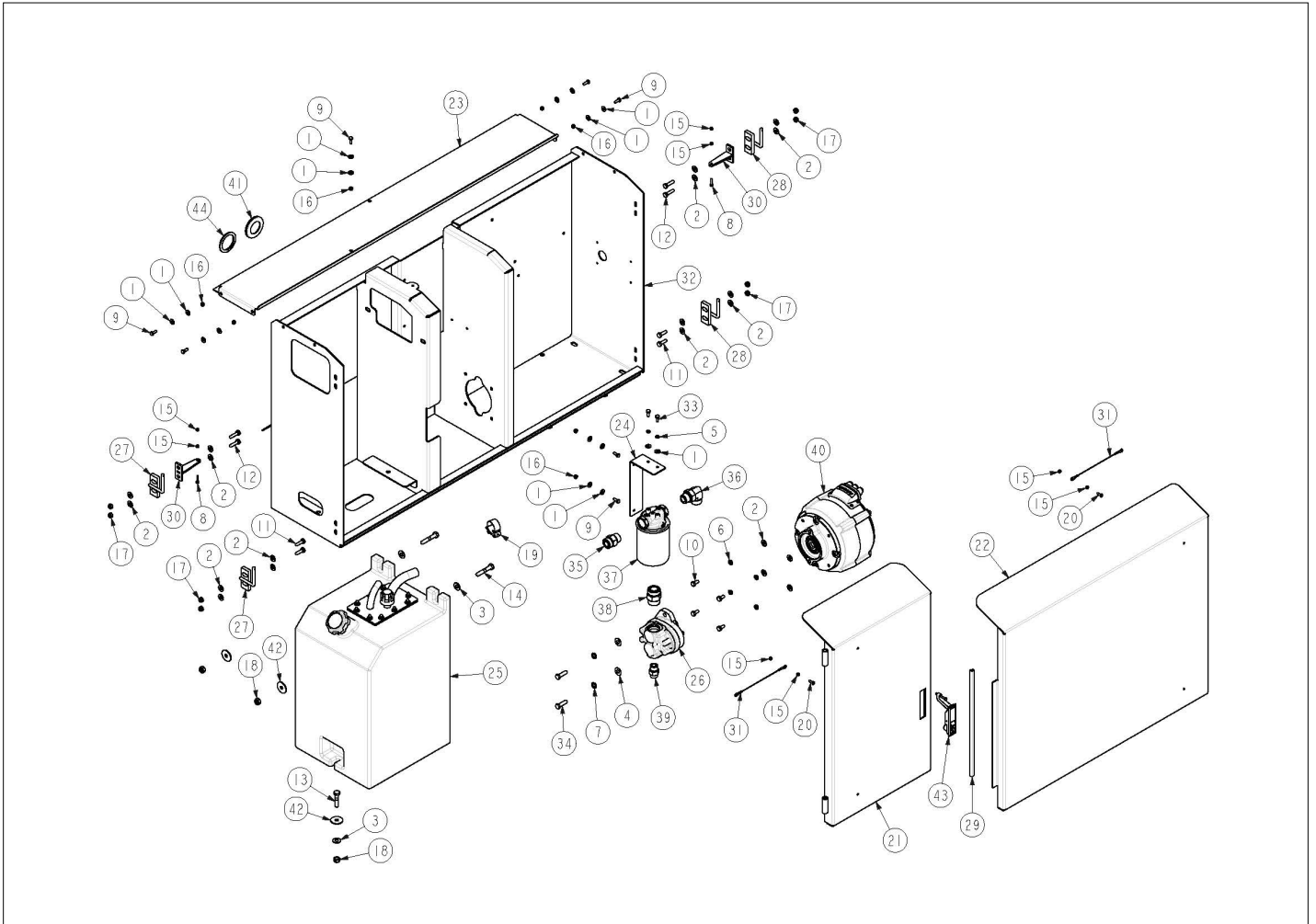
Item	Part No.	Name	Qty	Uom
1	12833-4	Decal, Serial Number Plate	1	EA
1	0070901	PLAC CAUTN SERIAL NUMBER	1	EA
2	60027-013	Rivet 1/8 x 5/32	4	EA

Repair Parts



Item	Part No.	Name	Qty	Uom
1	3603-06	Plain Washer	4	EA
2	056021-006	Washer, SpringWasher DIN127B M	4	EA
3	058491-020	Bolt, HexSetScrew DIN933 M6 x20mm 8.8 ZincPlated	4	EA
4	13811-06	Lower Control Box Assembly AS/NZS/CE, Lithium	1	EA

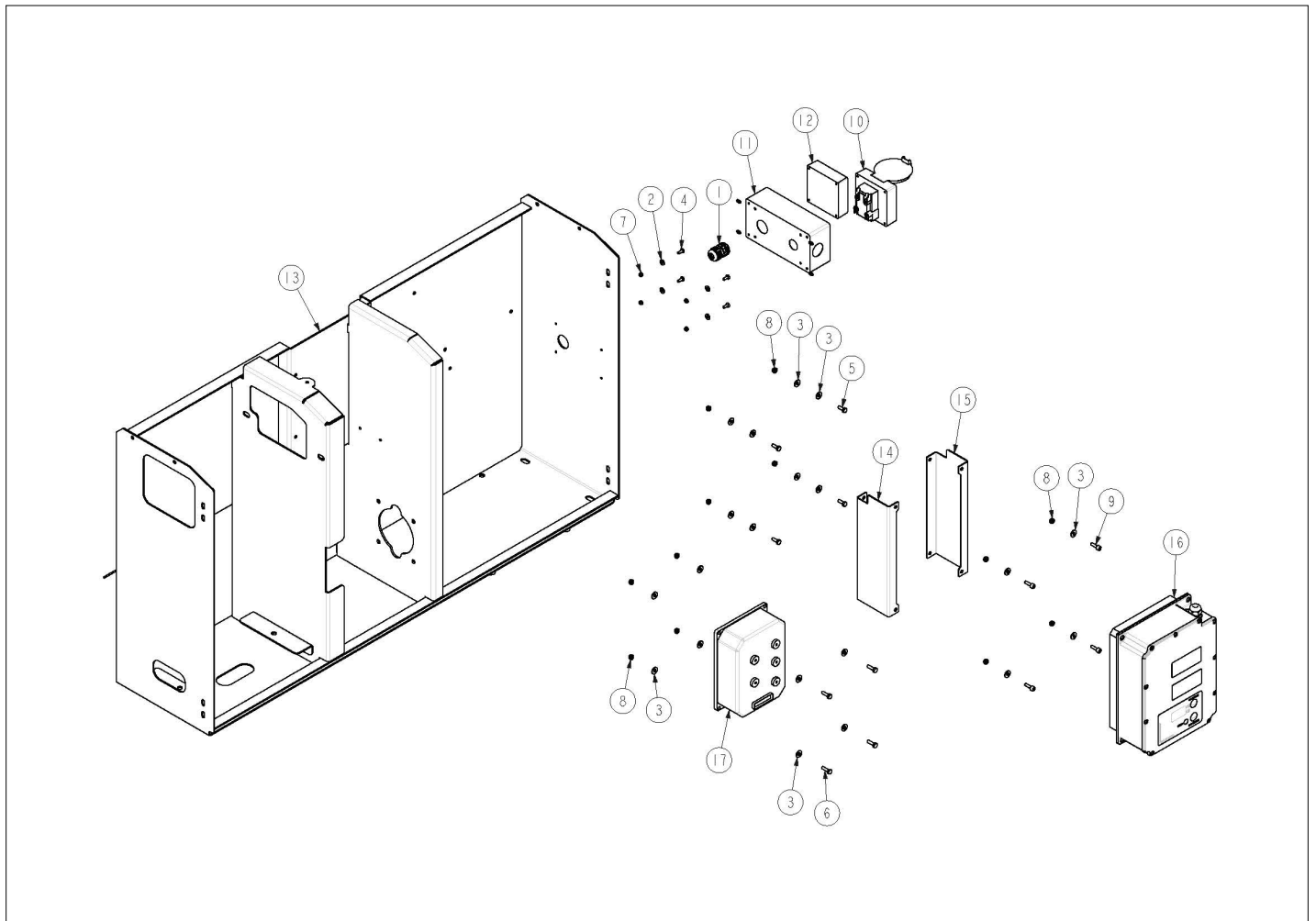
Repair Parts



Item	Part No.	Name	Qty	Uom
1	3603-06	Plain Washer	16	EA
2	510588-008	M8, plain washer	20	EA
3	3603-10	Plain Washer	3	EA
4	3603-10H	Plain Washer	2	EA
5	056021-006	Washer, SpringWasher DIN127B M	2	EA
6	056021-008	M8 SPRING WASHER	4	EA
7	056021-010	Washer, SpringWasher DIN127B M10 ZincPlated	2	EA
8	3610-05020	Metric Bolt	2	EA
9	058491-016	BOLT HEX SET SCREW DIN933 M6 X 16MM 8.8 ZINC PLATED	7	EA
10	3610-08016	Metric Bolt	4	EA
11	HH0812F10CZ025	HHCS M8X1.25 F 10.9 C 25	4	EA
12	058492-030	Bolt, HexSetScrew DIN933 M8 x 30mm 8.8 ZincPlated	4	EA
13	3610-10045	Metric Bolt	1	EA
14	056060-055	Bolt, HexBolt DIN931 M10 x 55mm 8.8 ZincPlated	2	EA
15	3611-05	Metric Nyloc Nut	8	EA
16	NL061010CZ	NUT HEX NL M6X1 10.9 C	7	EA
17	NL081210CZ	NUT HEX NL M8X1.25 10.9 C	8	EA
18	NL101510CZ	NUT HEX NL M10X1.5 10.9 C	3	EA
19	3618-32	Hose Clamp 34-37mm	1	EA
20	3668-05016	Button Head Socket Screw	2	EA
21	11679	Cabinet Door - Small	1	EA
22	11680	Cabinet Door - Large	1	EA
23	12313-10	Top Panel	1	EA
24	12329	Bracket - Return Line Filter	1	EA
25	13106-6A	Hydraulic Tank	1	EA
26	13628	Pump - 10.8cc SAE-A 9 Spline	1	EA
27	13869-01	Cabinet Hinge, LH	2	EA

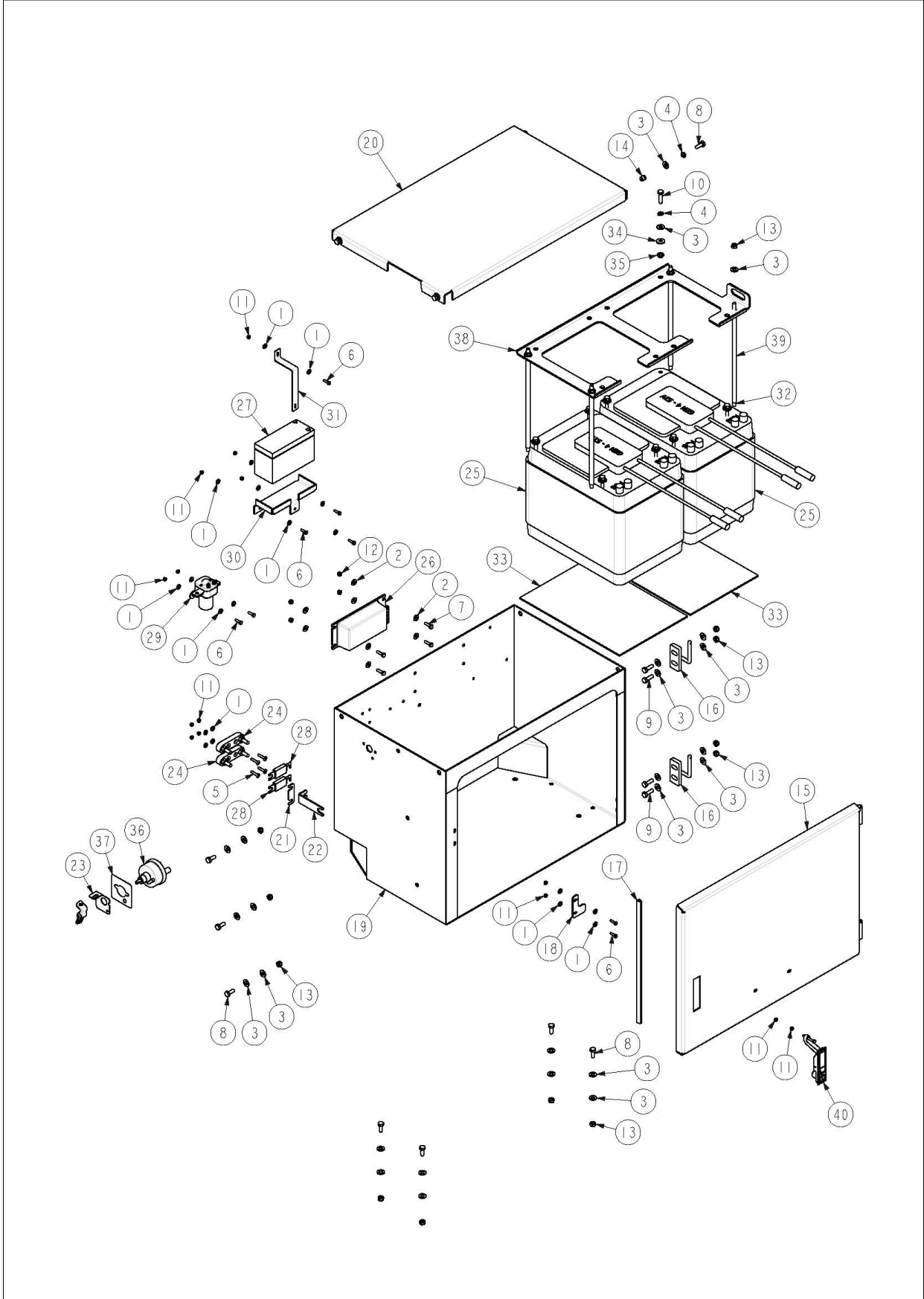
Item	Part No.	Name	Qty	Uom
28	13869-02	Cabinet Hinge, RH	2	EA
29	13872	Rubber Channel Section	1	EA
30	15361	Door Stop	2	EA
31	15361-03	Lanyard - Eye to Eye 8"	2	EA
32	15368	Cabinet - Tank Side	1	EA
33	60015-012	3/4" x 1/4" NC Bolt (Plated)	2	EA
34	60017-010	1" x 3/8 UNC Bolt	2	EA
35	100432-027	FTG, STR, 12MORFF X 12MORB, PARKER 12 F5OLO	1	EA
36	100434-021	FTG, 90°, 12MORFF X 12MORB, PARKER 12 C5OLO	1	EA
37	301440	AE-10 Oil Filter	1	EA
38	512968-000	Hyd Fitting - Straight ORFS(16) - SAE(16)	1	EA
39	512969-000	FTG -10 UNF -8 ORFS STRTHD	1	EA
40	515959-000	Motor - 01PM-200-66	1	EA
41	516204-000	Rubber Grommet	1	EA
42	5560179	WSHR .421ID 1.50OD .120 SP	3	EA
43	8342416-3	Latch - Adjustable Trigger, Key 508CH	1	EA
44	Grommet 60mm	Rubber Grommet	1	EA

Repair Parts



Item	Part No.	Name	Qty	Uom
1	1814	Cable Gland	1	EA
2	FLWM0510CZ	WASHER FLAT M5 10.9 C	4	EA
3	3603-06	Plain Washer	20	EA
4	510593-012	Pan head screw, M5 x 12 mm	4	EA
5	058491-016	BOLT HEX SET SCREW DIN933 M6 X 16MM 8.8 ZINC PLATED	4	EA
6	058491-020	Bolt, HexSetScrew DIN933 M6 x20mm 8.8 ZincPlated	4	EA
7	3611-05	Metric Nyloc Nut	4	EA
8	NL061010CZ	NUT HEX NL M6X1 10.9 C	12	EA
9	3613-06030	Socket Head Cap Screw	4	EA
10	10967-2	Appliance Inlet	1	EA
11	10967-3	PDL Enclosure	1	EA
12	10967-4	PDL Enclosure Lid	1	EA
13	15368	Cabinet - Tank Side	1	EA
14	15372-01	Mount, Charger Left	1	EA
15	15372-02	Mount, Charger Right	1	EA
16	515957-000	Charger - Zivan SG3	1	EA
17	515958-000	Curtis Drive	1	EA

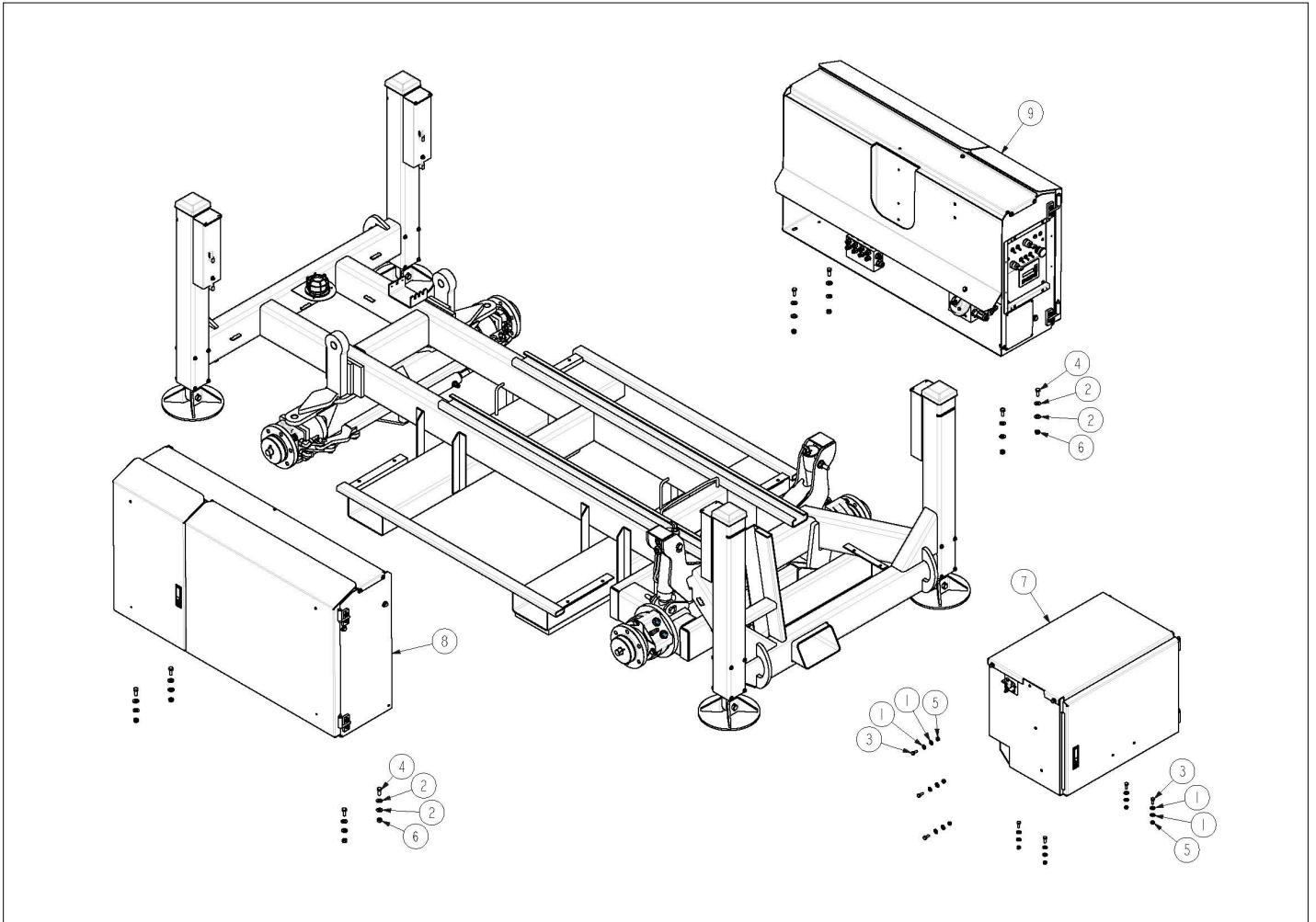
Repair Parts



Item	Part No.	Name	Qty	Uom
1	FLWM0510CZ	WASHER FLAT M5 10.9 C	20	EA
2	3603-06	Plain Washer	8	EA
3	510588-008	M8, plain washer	38	EA
4	056021-008	M8 SPRING WASHER	12	EA
5	3606-05025	Countersunk Socket Head Screw	4	EA
6	3610-05016	Metric Bolt	8	EA
7	058491-020	Bolt, HexSetScrew DIN933 M6 x20mm 8.8 ZincPlated	4	EA
8	058492-020	M8 x 20 HEX. HD. SCREW - 8.8	11	EA
9	HH0812F10CZ025	HHCS M8X1.25 F 10.9 C 25	4	EA
10	058492-030	Bolt, HexSetScrew DIN933 M8 x 30mm 8.8 ZincPlated	8	EA
11	3611-05	Metric Nyloc Nut	14	EA
12	NL061010CZ	NUT HEX NL M6X1 10.9 C	4	EA
13	NL081210CZ	NUT HEX NL M8X1.25 10.9 C	15	EA
14	3628-08	Nutsert - M8	4	EA
15	13032	Door - Engine Cabinet	1	EA
16	13869-02	Cabinet Hinge, RH	2	EA
17	13872	Rubber Channel Section	1	EA
18	15370-01	Bracket - Door Latch	1	EA
19	15371	Power Cabinet	1	EA
20	15371-4	Power Cabinet Lid	1	EA
21	15378	Busbar - Two Fuses	1	EA
22	15279	Brake Hose Kit (Not Shown)	1	EA
23	300840	LOCK OUT LEVER ASSEMBLY	1	EA
24	446086	FUSE BLOCK	2	EA
25	515956-000	Battery Pack	2	EA
26	516050-000	DC-DC Converter	1	EA
27	516057-000	Battery, 12V Aux	1	EA
28	516065-000	Fuse	2	EA

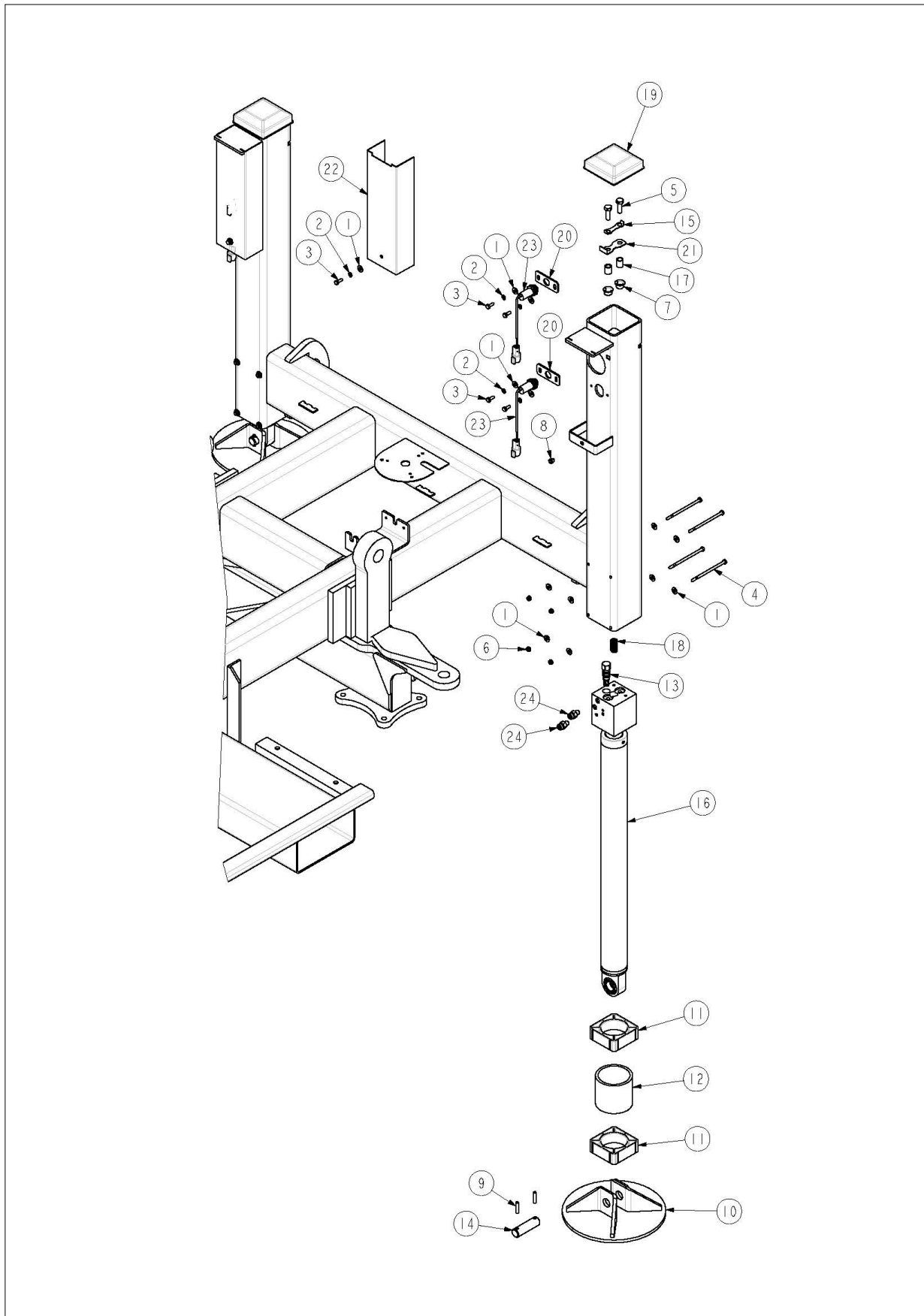
Item	Part No.	Name	Qty	Uom
29	516067-000	Contactora 300AMP	1	EA
30	516094-000	Tray, Battery Aux	1	EA
31	516095-000	Strap, Aux Battery	1	EA
32	516112-000	Tie Rod, Battery	4	EA
33	516147-000	Mat Isolation, EPDM Rubber	2	EA
34	516148-000	Nylon Flat Washer	8	EA
35	516149-000	Nylon Flat Washer	8	EA
36	516163-000	Battery Isolator Switch Double	1	EA
37	516203-000	Lockout Lever Plate	1	EA
38	516289-000	Battery Lockplate	1	EA
39	516292-000	Lock Plate Tube	4	EA
40	8342416-3	Latch - Adjustable Trigger, Key 508CH	1	EA

Repair Parts



Item	Part No.	Name	Qty	Uom
1	510588-008	M8, plain washer	68	EA
2	3603-10	Plain Washer	28	EA
3	058492-020	M8 x 20 HEX. HD. SCREW - 8.8	15	EA
4	058508-025	HHCS M10X1.5 F 10.9 C 25	9	EA
5	NL081210CZ	NUT HEX NL M8X1.25 10.9 C	33	EA
6	NL101510CZ	NUT HEX NL M10X1.5 10.9 C	12	EA
7	15370	Power Cabinet	1	EA
8	15372	Motor Cabinet	1	EA
9	15380	Control Cabinet	1	EA

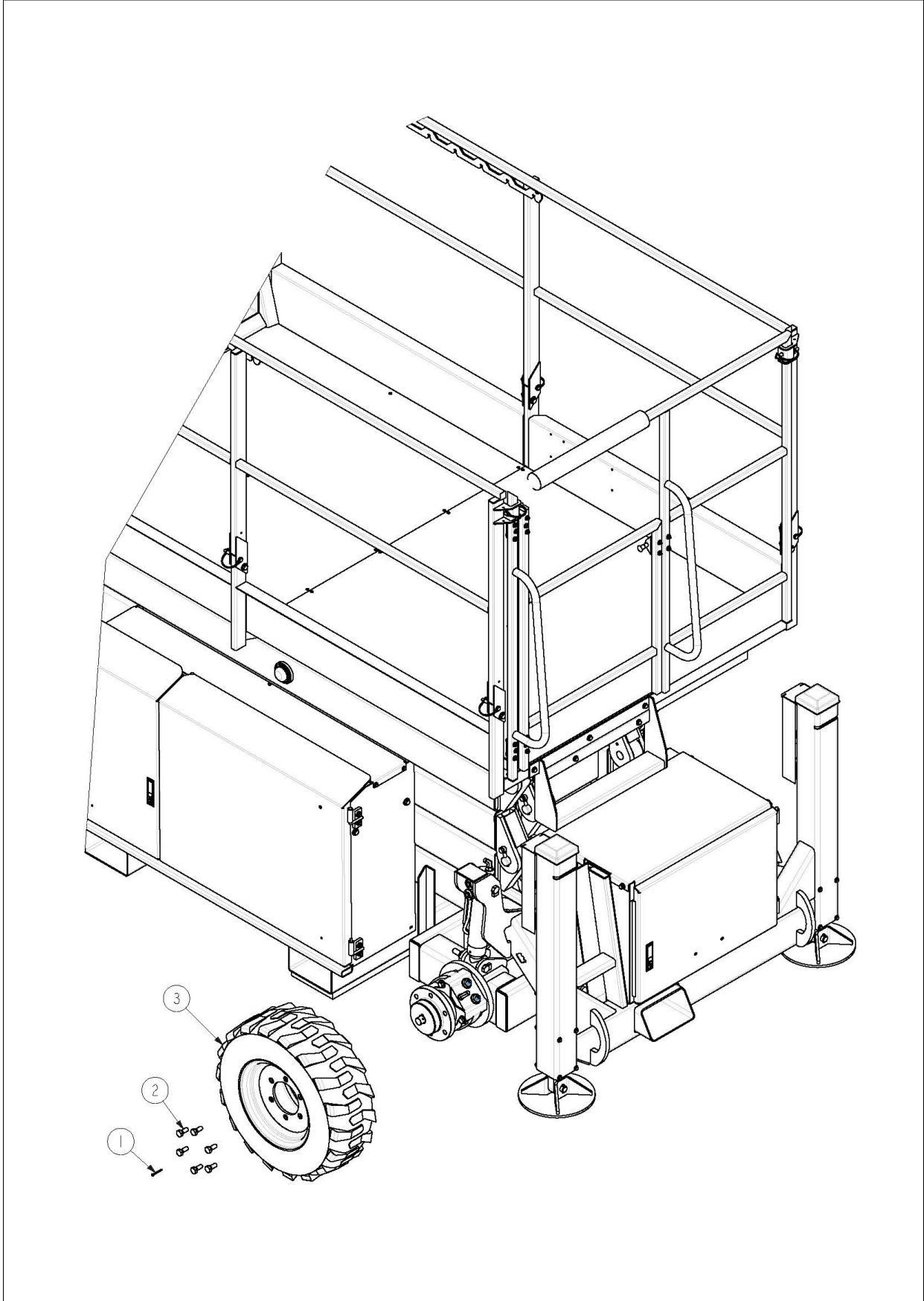
Repair Parts



Item	Part No.	Name	Qty	Uom
1	3603-06	Plain Washer	52	EA
2	056021-006	Washer, SpringWasher DIN127B M	20	EA
3	058491-016	BOLT HEX SET SCREW DIN933 M6 X 16MM 8.8 ZINC PLATED	20	EA
4	3610-06110	Metric Bolt	16	EA
5	058493-030	Bolt, HexSetScrew DIN933 M10 x	8	EA
6	NL061010CZ	NUT HEX NL M6X1 10.9 C	16	EA
7	3626-8	Flanged Permaglride Bush	8	EA
8	505050-006	M6 x 20mm Socket Button Scre w	4	EA
9	3633-3	Roll Pin	8	EA
10	11305	Foot Weld Inverted Stabiliser Leg	4	EA
11	11366-1	Stabiliser Bush	8	EA
12	11366-2	Stabiliser Bush Spacer	4	EA
13	11367-2	Pilot-to-open Check Valve With Sealed Pilot	4	EA
14	11369	Pin 7/8" x 76mm	4	EA
15	11492-4	Dual Locktab	4	EA
16	12036	Cylinder - Stabiliser SR	4	EA
17	12036-5	Sliding Spacer	8	EA
18	12036-6	Compression Spring	4	EA
19	13771-50	RHS Cap 100x100 Steel	4	EA
20	14098-01-4	PROX MOUNT BRACKET	8	EA
21	14098-02	Prox Target, Leg Grounded, SR	4	EA
22	14098-03	Hose Cover	4	EA
23	15085-03	Axle Prox	8	EA
24	100432-002	FTG, STR, 4MORFF X 4MORB	8	EA

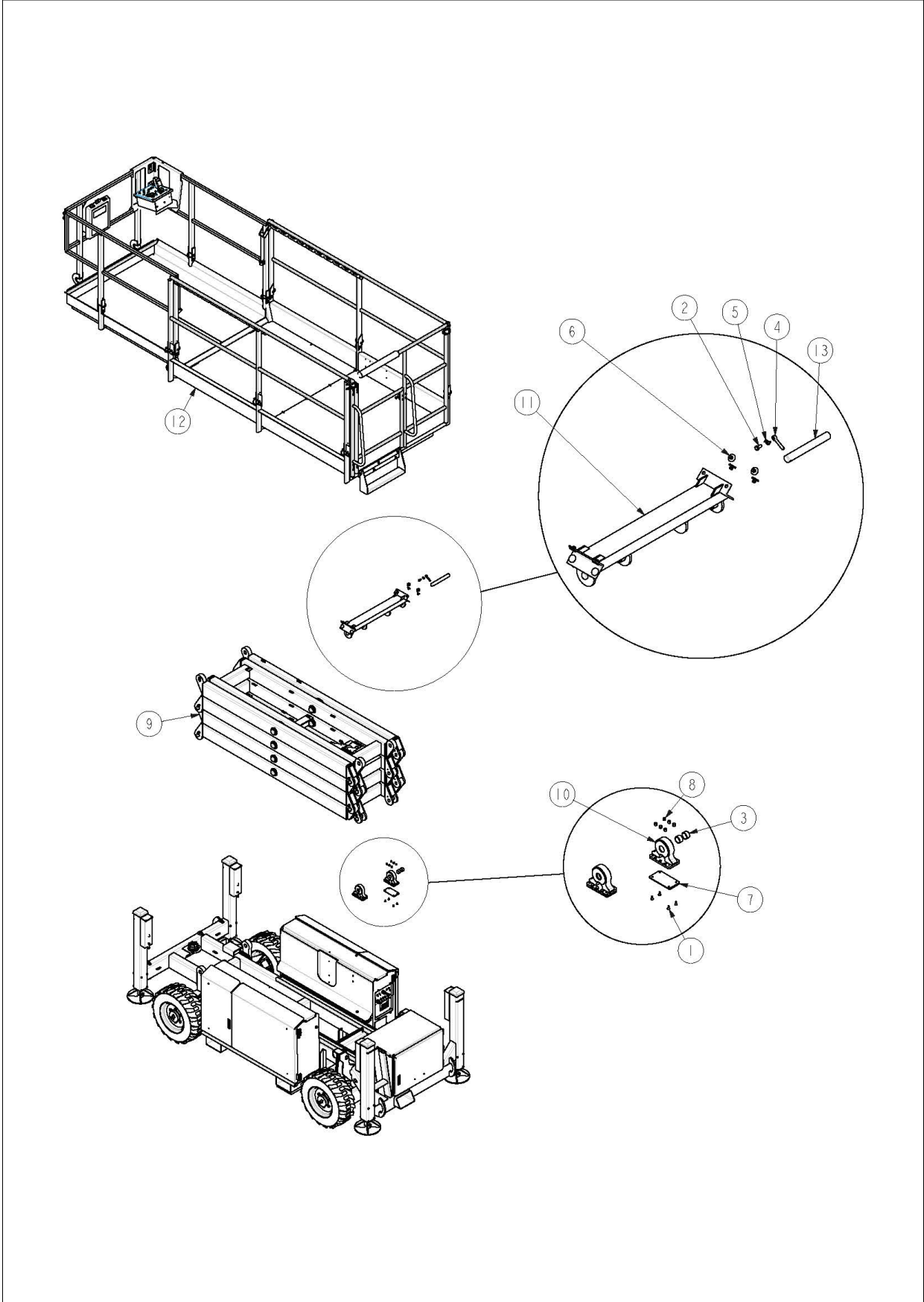
Item	Part No.	Name	Qty	Uom
1	3603-06	Plain Washer	56	EA
2	3605-06	Spring Washer	16	EA
3	058491-016	BOLT HEX SET SCREW DIN933 M6 X 16MM 8.8 ZINC PLATED	20	EA
4	3610-06110	Metric Bolt	16	EA
5	058493-030	Bolt, HexSetScrew DIN933 M10 x	8	EA
6	NL061010CZ	NUT HEX NL M6X1 10.9 C	20	EA
7	3626-8	Flanged Permaglide Bush	8	EA
8	3633-3	Roll Pin	8	EA
9	11305	Foot Weld Inverted Stabiliser Leg	4	EA
10	11366-1	Stabiliser Bush	8	EA
11	11366-2	Stabiliser Bush Spacer	4	EA
12	11367-2	Pilot-to-open Check Valve With Sealed Pilot	4	EA
13	11369	Pin 7/8" x 76mm	4	EA
14	11492-4	Dual Locktab	4	EA
15	12036	Cylinder - Stabiliser SR	4	EA
16	12036-5	Sliding Spacer	8	EA
17	12036-6	Compression Spring	4	EA
18	13771-50	RHS Cap 100x100 Steel	4	EA
19	14098-01-4	PROX MOUNT BRACKET	8	EA
20	14098-02	Prox Target, Leg Grounded, SR	4	EA
21	14098-03	Hose Cover	4	EA
22	15085-03	Axle Prox	8	EA
23	100432-002	FTG, STR, 4MORFF X 4MORB	8	EA

Repair Parts



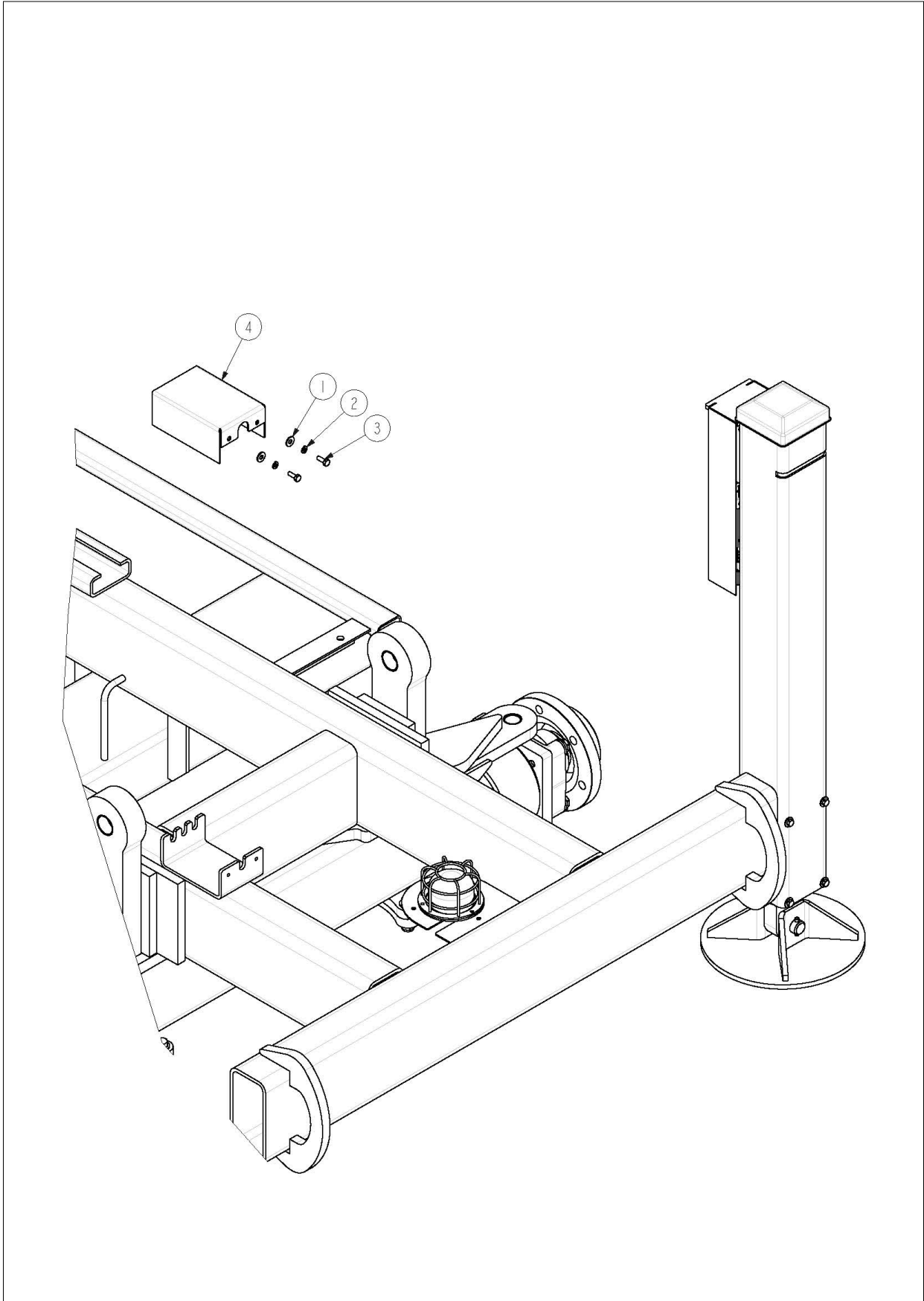
Item	Part No.	Name	Qty	Uom
1	3631-1	Split Pin	4	EA
2	98300-9	Wheel Stud	24	EA
3	12286-4L	Wheel, Left Hand Foam Filled - Non Marking	2	EA
3	12286-4R	Wheel, Right Hand Foam Filled - Non Marking	2	EA
3	12286-3L	Wheel, Left Hand, Foam Filled	2	EA
3	12286-3R	WHEEL- RIGHT HAND, FOAM FILL	2	EA

Repair Parts



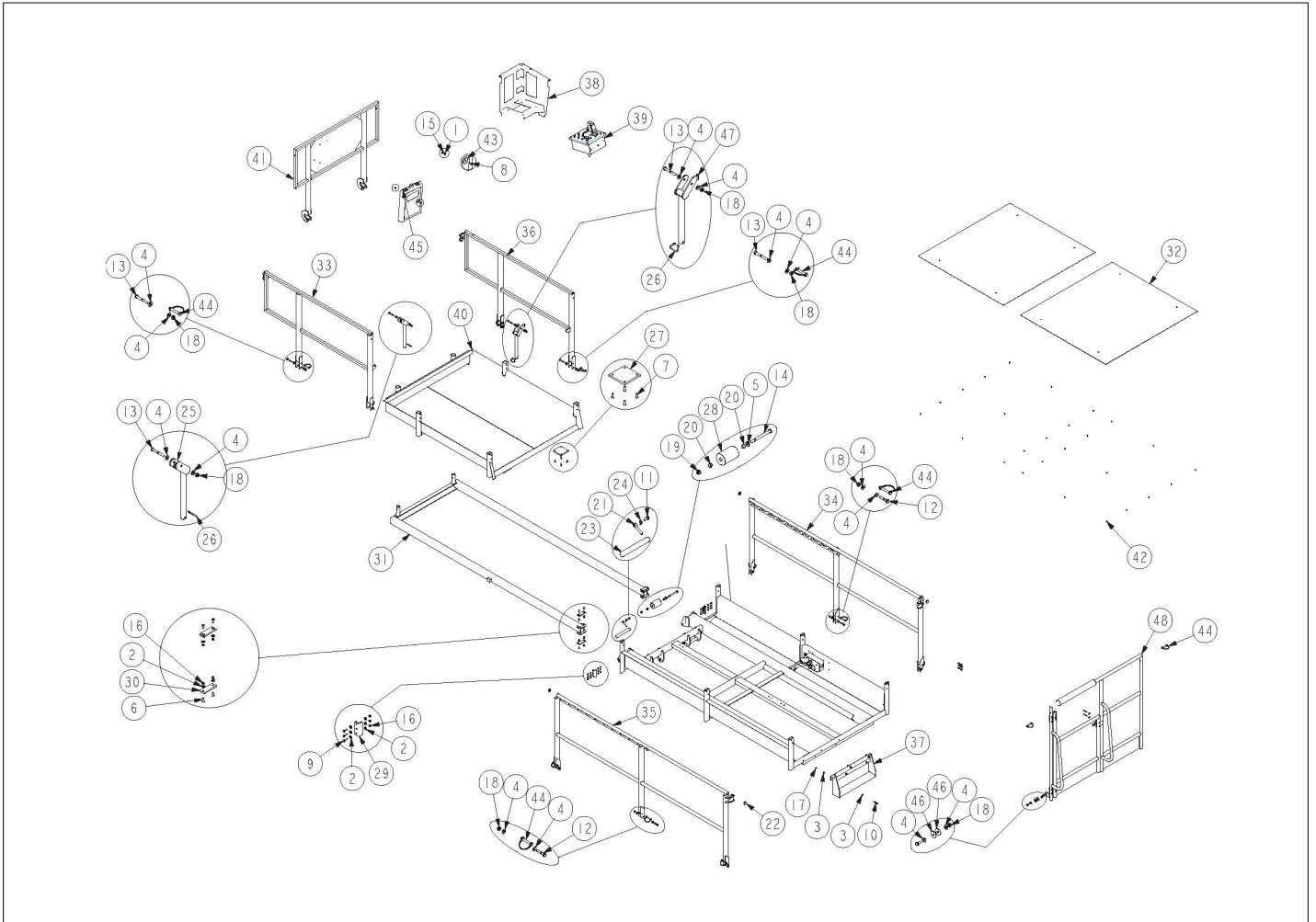
Item	Part No.	Name	Qty	Uom
1	510567-016	CSK SKT FLT MACH SCREW M6-1.0 X 16 10.9	8	EA
2	058493-020	Bolt, HexSetScrew DIN933 M10 x 20mm 8.8 ZincPlated	2	EA
3	3624-19	Bush	4	EA
4	8626-4	PINKEEPER 10MM PLATED	2	EA
5	11492-3	Tab Washer	2	EA
6	11658-20	Wear Plug	8	EA
7	12566-2	Wear Pad Slider Block (Bottom)	2	EA
8	12566-3	Slider Block Top	12	EA
9	13893-04	S2255RTE Stack	1	EA
9	13893-05	S2755RTE Stack	1	EA
10	13928	Sliding Block Weld	2	EA
11	13931	Slider Bar Weld	1	EA
12	15165-01	Platform Assembly	1	EA
13	15202	Pin Keeper	2	EA

Repair Parts



Item	Part No.	Name	Qty	Uom
1	3603-06	Plain Washer	2	EA
2	056021-006	Washer, SpringWasher DIN127B M	2	EA
3	058491-016	BOLT HEX SET SCREW DIN933 M6 X 16MM 8.8 ZINC PLATED	2	EA
4	12818	Bleed Down Cover	1	EA

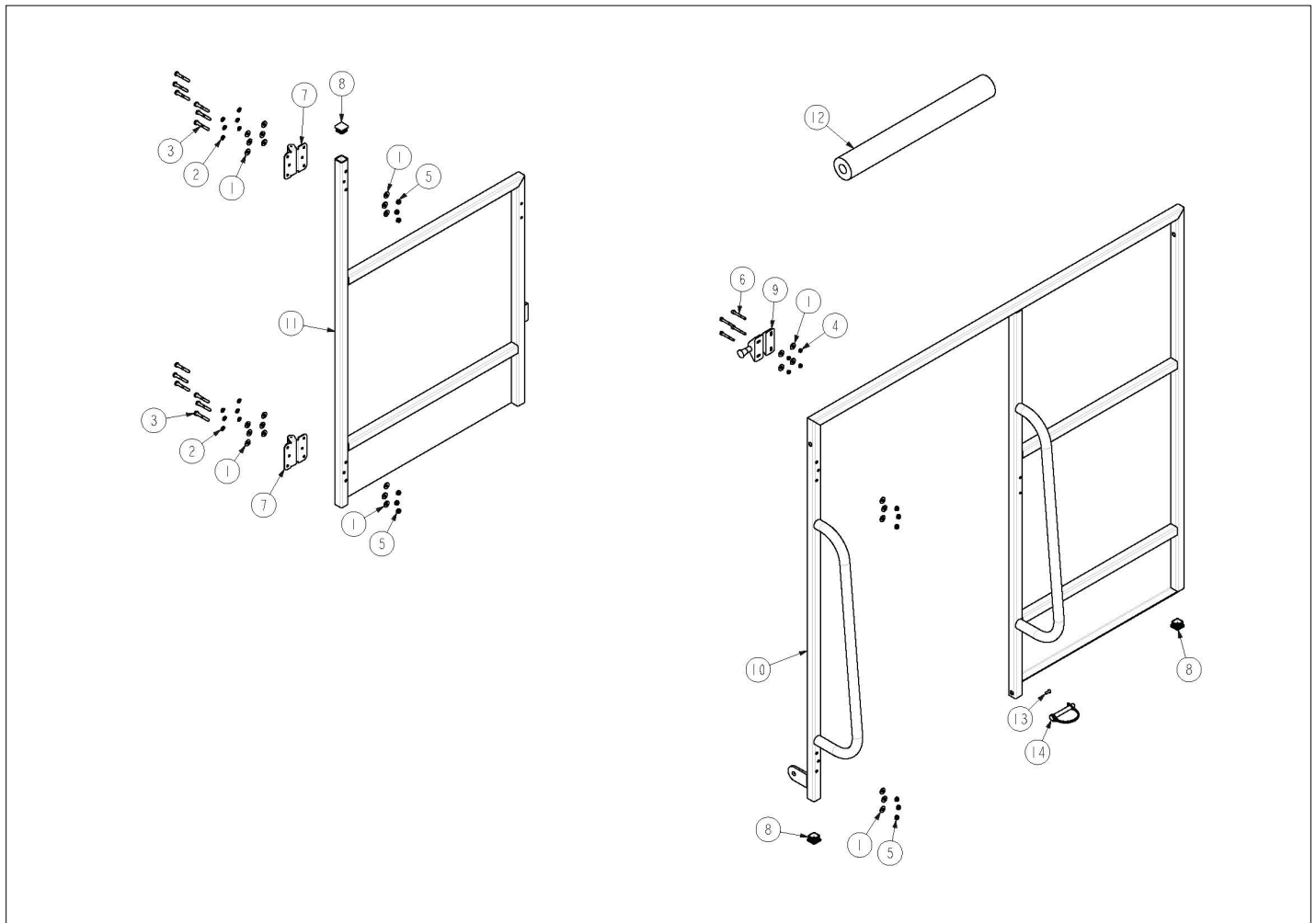
Repair Parts



Item	Part No.	Name	Qty	Uom
0	15164-01	Platform Assembly	1	EA
1	510588-005	Washer, SteelFlatWasher DIN125C M5 ZincPlated	6	EA
2	3603-06	Plain Washer	20	EA
3	510588-008	M8, plain washer	10	EA
4	3603-10	Plain Washer	28	EA
5	FLWM1210CZ	WASHER FLAT M12 10.9 C	4	EA
6	3606-06020	Countersunk Socket Head Screw	8	EA
7	510567-025	CSK socket head screw, M6 x 25 mm	8	EA
8	3610-05016	Metric Bolt	2	EA
9	058491-020	Bolt, HexSetScrew DIN933 M6 x20mm 8.8 ZincPlated	6	EA
10	3610-08045	Metric Bolt	5	EA
11	058493-020	Bolt, HexSetScrew DIN933 M10 x 20mm 8.8 ZincPlated	4	EA
12	056060-050	Bolt, HexBolt DIN931 M10 x 50m	6	EA
13	HH1015P10CZ075	HHCS M10X1.5 P 10.9 C 75	6	EA
14	057052-130	Bolt, front motor mount	2	EA
15	3611-05	Metric Nyloc Nut	6	EA
16	NL061010CZ	NUT HEX NL M6X1 10.9 C	14	EA
17	NL081210CZ	NUT HEX NL M8X1.25 10.9 C	5	EA
18	NL101510CZ	NUT HEX NL M10X1.5 10.9 C	14	EA
19	NL121710CZ	NUT HEX NL M12X1.75 10.9 C	2	EA
20	3626-2	Flanged Permaglide Bush	4	EA
21	8626-4	PINKEEPER 10MM PLATED	4	EA
22	8926-1	Plug RHS 25mm	4	EA
23	15202	Pin Keeper	4	EA
24	11492-3	Tab Washer	4	EA
25	11695	Handrail Latch Left	1	EA
26	11695-3	Latch Holding Ring	2	EA

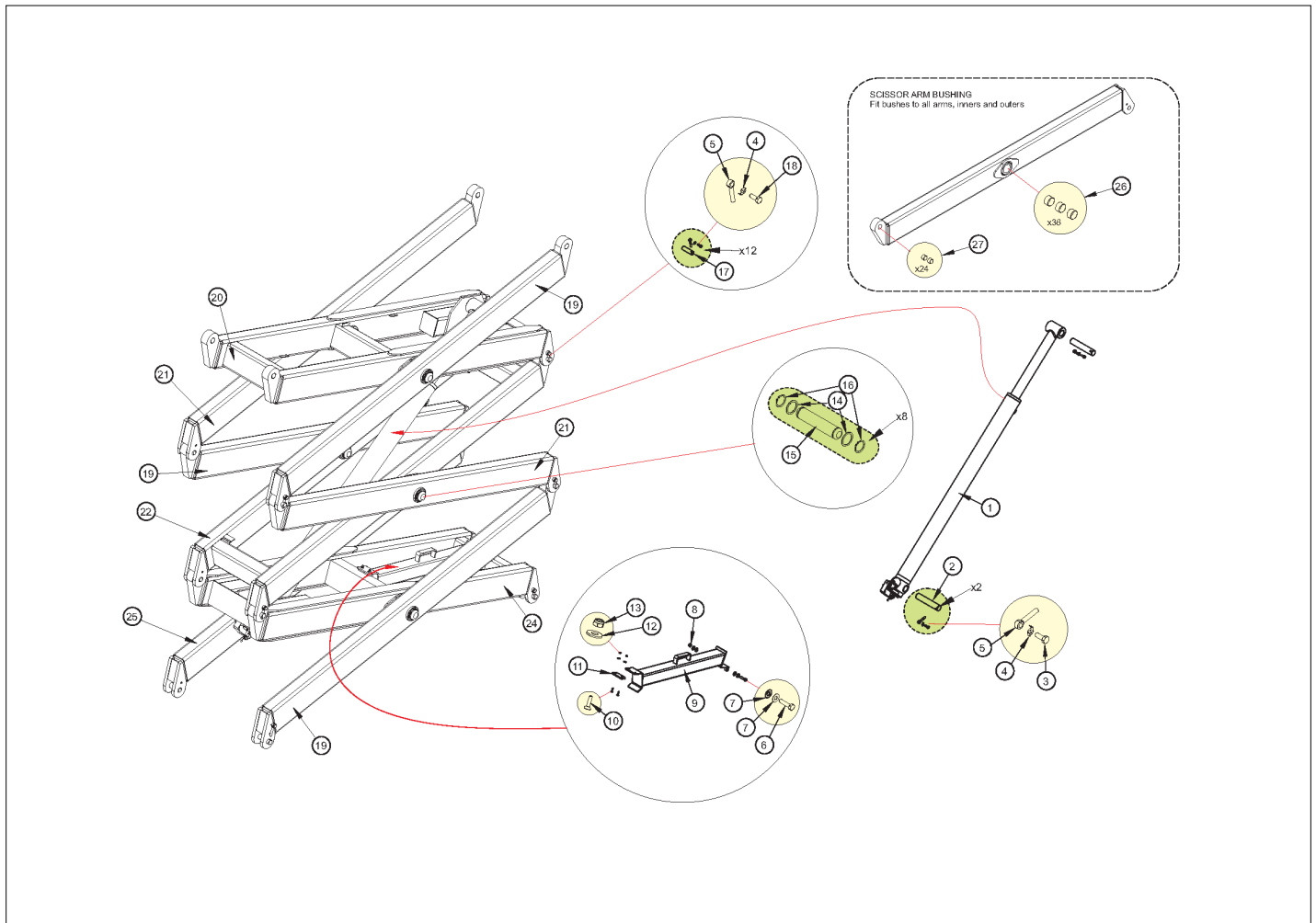
Item	Part No.	Name	Qty	Uom
27	12709-10	Rollout Deck Slide Pad	2	EA
28	13122-11	External Roller	2	EA
29	13122-12	Stop - Rollout	2	EA
30	13122-14	Wear Pad - Internal	4	EA
31	13128	Rollout Frame Weld	1	EA
32	13155	Platform Floor	2	EA
33	13262	Handrail Left Front	1	EA
34	13264	Right Handrail	1	EA
35	13268	Left Handrail	1	EA
36	13841	Handrail Right Front	1	EA
37	13871	Step Weld	1	EA
38	13921	Control Mount	1	EA
39	14023-10	Upper Control Box Assembly	1	EA
40	14055	Rollout Deck Weld	1	EA
41	14056	Handrail Front	1	EA
42	60027-067N	Rivet 1/8 x 5/32	26	EA
43	60030-198	1/4" Fender Washer	2	EA
44	302544	PIN SNAPPER W/ LNYD .375X2.25-	12	EA
45	562386	COMPARTMENT, LITERATURE 8.5X11	1	EA
46	5560179	WSHR .421ID 1.50OD .120 SP	4	EA
47	11695R	Handrail Latch Right	1	EA
48	14057	Handrail - Entry End	1	EA
49	15158	Platform	1	EA
50	15096	Tubular Spacer (Not Shown)	4	EA

Repair Parts



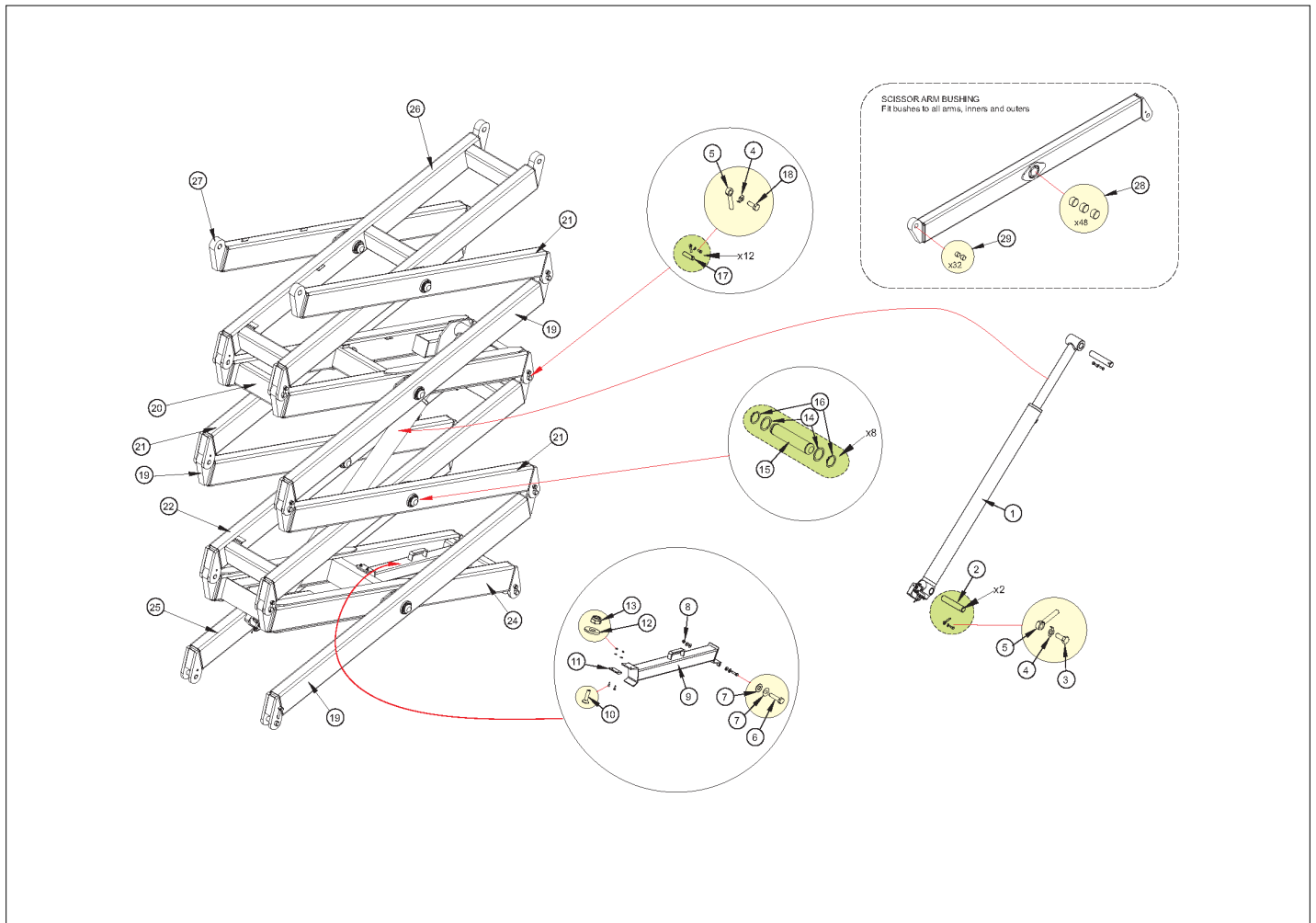
Item	Part No.	Name	Qty	Uom
1	3603-06	Plain Washer	28	EA
2	3605-06	Spring Washer	12	EA
3	3610-06040	Metric Bolt	12	EA
4	3611-05	Metric Nyloc Nut	4	EA
5	NL061010CZ	NUT HEX NL M6X1 10.9 C	12	EA
6	058501-040	SKT CAP SCREW M5-0.8 X 40MM GR12.9 ZINC	4	EA
7	7495	Spring Hinge	2	EA
8	8926-1	Plug RHS 25mm	3	EA
9	13909	Latch, Magnetic Slam	1	EA
10	14057	Handrail - Entry End	1	EA
11	14058	Handrail - Gate	1	EA
12	15243	Foam Pipe Rap	1	EA
13	60027-067N	Rivet 1/8 x 5/32	1	EA
14	302544	PIN SNAPPER W/ LNYD .375X2.25-	1	EA

Repair Parts



Item	Part No.	Name	Qty	Uom
0	15132-01	2255 Stack	1	EA
1	13906-03	Cylinder Assembly	1	EA
2	9292	Pin	2	EA
3	058493-020	Bolt, HexSetScrew DIN933 M10 x 20mm 8.8 ZincPlated	2	EA
4	11492-3	Tab Washer	10	EA
5	8626-4	PINKEEPER 10MM PLATED	10	EA
6	3610-10120	Metric Bolt	1	EA
7	3603-10	Plain Washer	4	EA
8	NL101510CZ	NUT HEX NL M10X1.5 10.9 C	1	EA
9	11380	Safety Prop Weld	1	EA
10	510567-025	CSK socket head screw, M6 x 25 mm	2	EA
11	11143-2	Wear Pad	1	EA
12	3606-06	Plain Washer	2	EA
13	NL061010CZ	NUT HEX NL M6X1 10.9 C	2	EA
14	3629-5062L	Washer, Scissor Pivot	12	EA
15	11804	Scissor Pivot Pin	6	EA
16	3619-5	Circlip	12	EA
17	13574-16	Pin	8	EA
18	058508-025	HHCS M10X1.5 F 10.9 C 25	8	EA
19	13667-1	Arm, Outer, Mid Right Hand Weld	3	EA
20	13667-36	Arm, Inner Top Weld	1	EA
21	13667-2	Arm, Outer, Mid Left Hand Weld	2	EA
22	13667-15	Arm, Inner Weld	1	EA
24	13667-33	Arm, Inner, Lower Weld	1	EA
25	13667-32	Arm, Outer, Lower Right Weld	1	EA
26	3624-2	Bush	36	EA
27	062642-020	BEARING	24	EA

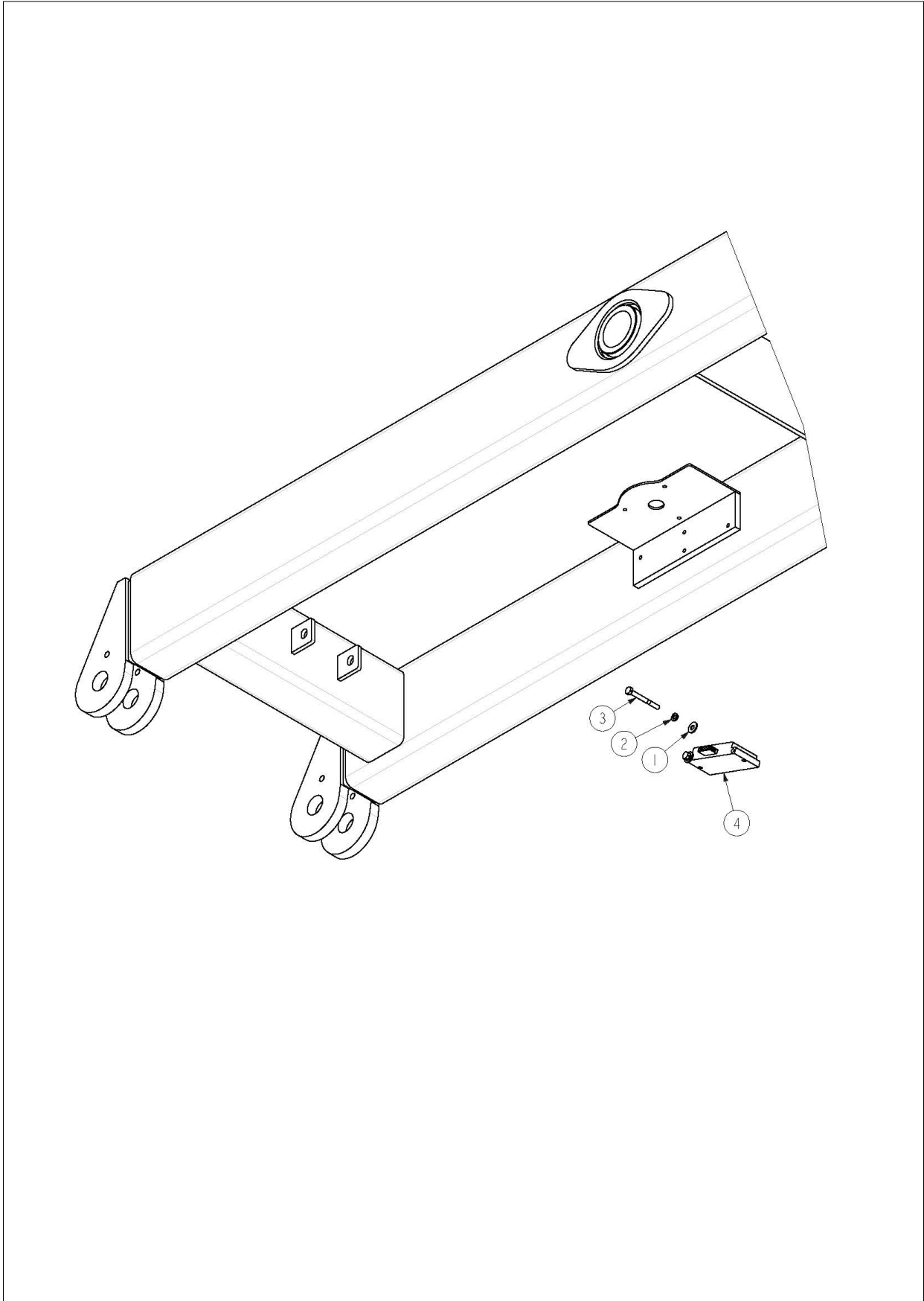
Repair Parts



Item	Part No.	Name	Qty	Uom
0	15132-02	2755 Stack	1	EA
1	13906-03	Cylinder Assembly	1	EA
2	9292	Pin	2	EA
3	058493-020	Bolt, HexSetScrew DIN933 M10 x 20mm 8.8 ZincPlated	2	EA
4	11492-3	Tab Washer	14	EA
5	8626-4	PINKEEPER 10MM PLATED	14	EA
6	3610-10120	Metric Bolt	1	EA
7	3603-10	Plain Washer	4	EA
8	NL101510CZ	NUT HEX NL M10X1.5 10.9 C	1	EA
9	11380	Safety Prop Weld	1	EA
10	510567-025	CSK socket head screw, M6 x 25 mm	2	EA
11	11143-2	Wear Pad	1	EA
12	3603-06	Plain Washer	2	EA
13	NL061010CZ	NUT HEX NL M6X1 10.9 C	2	EA
14	3629-5062L	Washer, Scissor Pivot	16	EA
15	11804	Scissor Pivot Pin	8	EA
16	3619-5	Circlip	16	EA
17	13574-16	Pin	12	EA
18	058508-025	HHCS M10X1.5 F 10.9 C 25	12	EA
19	13667-1	Arm, Outer, Mid Right Hand Weld	3	EA
20	13667-36	Arm, Inner Top Weld	1	EA
21	13667-2	Arm, Outer, Mid Left Hand Weld	3	EA
22	13667-15	Arm, Inner Weld	1	EA
24	13667-33	Arm, Inner, Lower Weld	1	EA
25	13667-32	Arm, Outer, Lower Right Weld	1	EA
26	13667-15	Arm, Inner Weld	1	EA
27	13667-35	Arm, Outer, Top Odd Ends, Right Hand	1	EA
28	3624-2	Bush	48	EA

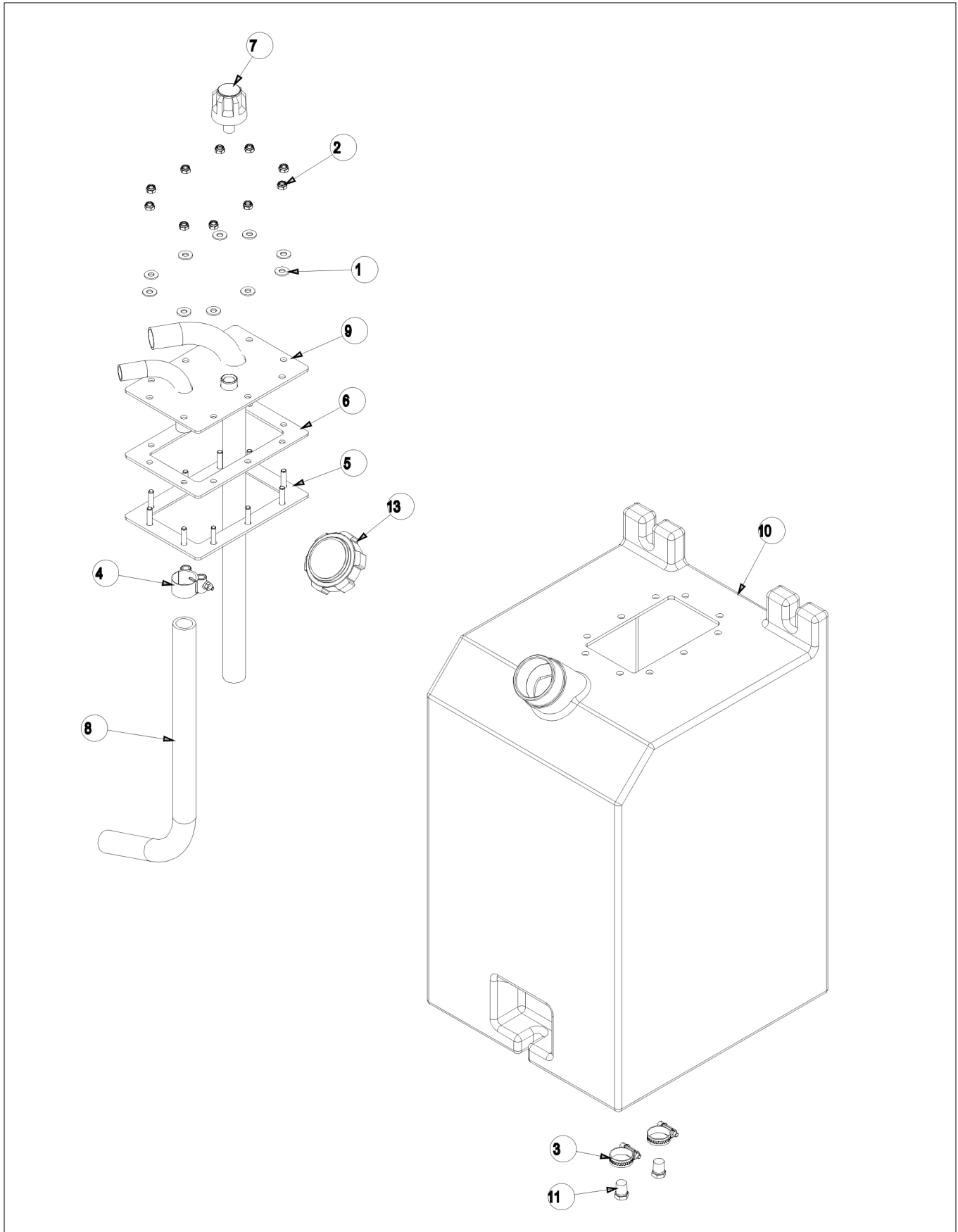
Item	Part No.	Name	Qty	Uom
29	062642-020	BEARING	32	EA

Repair Parts



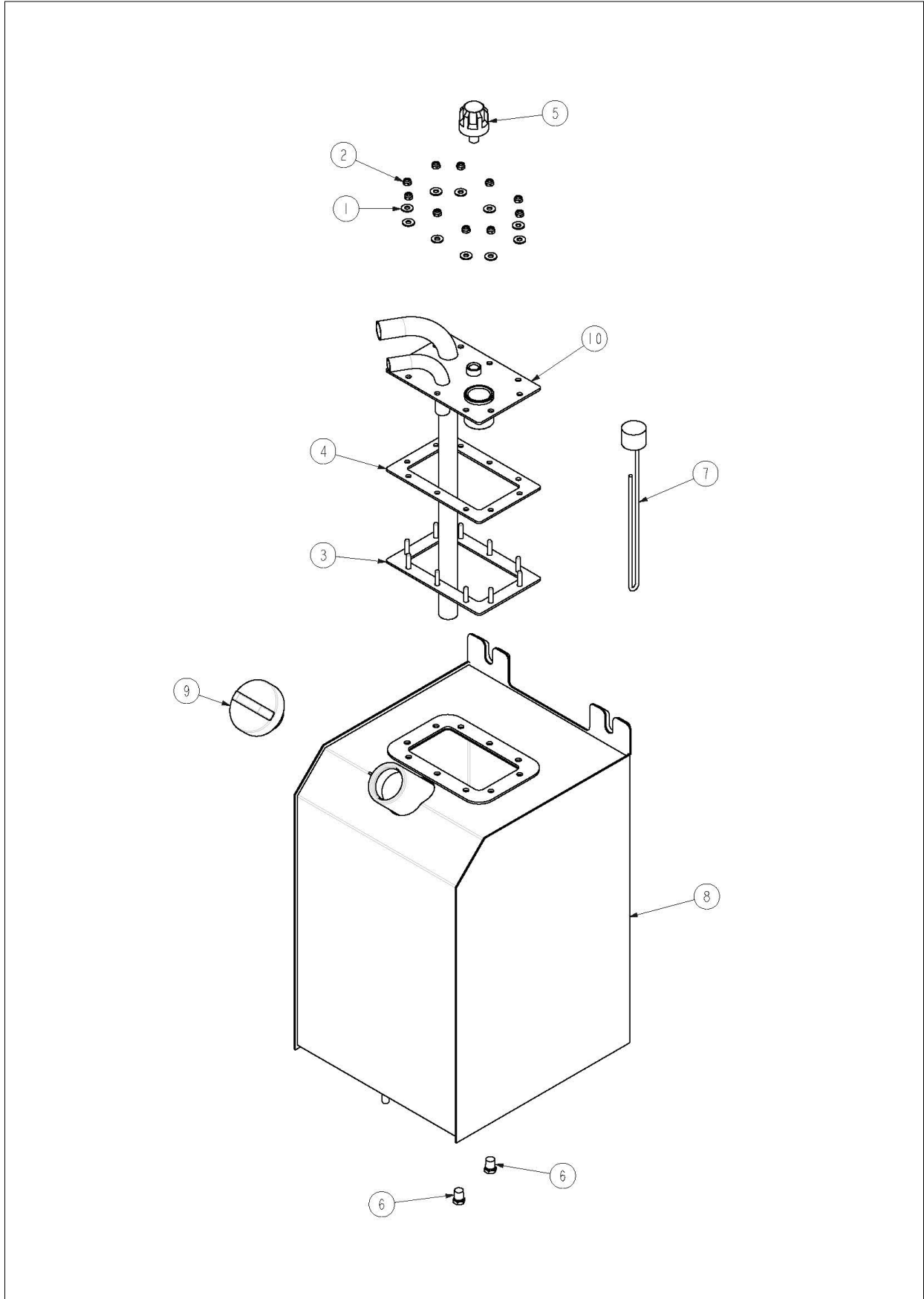
Item	Part No.	Name	Qty	Uom
1	3603-06	Plain Washer	6	EA
2	056021-006	Washer, SpringWasher DIN127B M	6	EA
3	056058-055	Bolt, HexBolt DIN931 M6 x 55mm	2	EA
4	3030187	ANGLE TRANSDUCER	1	EA

Repair Parts



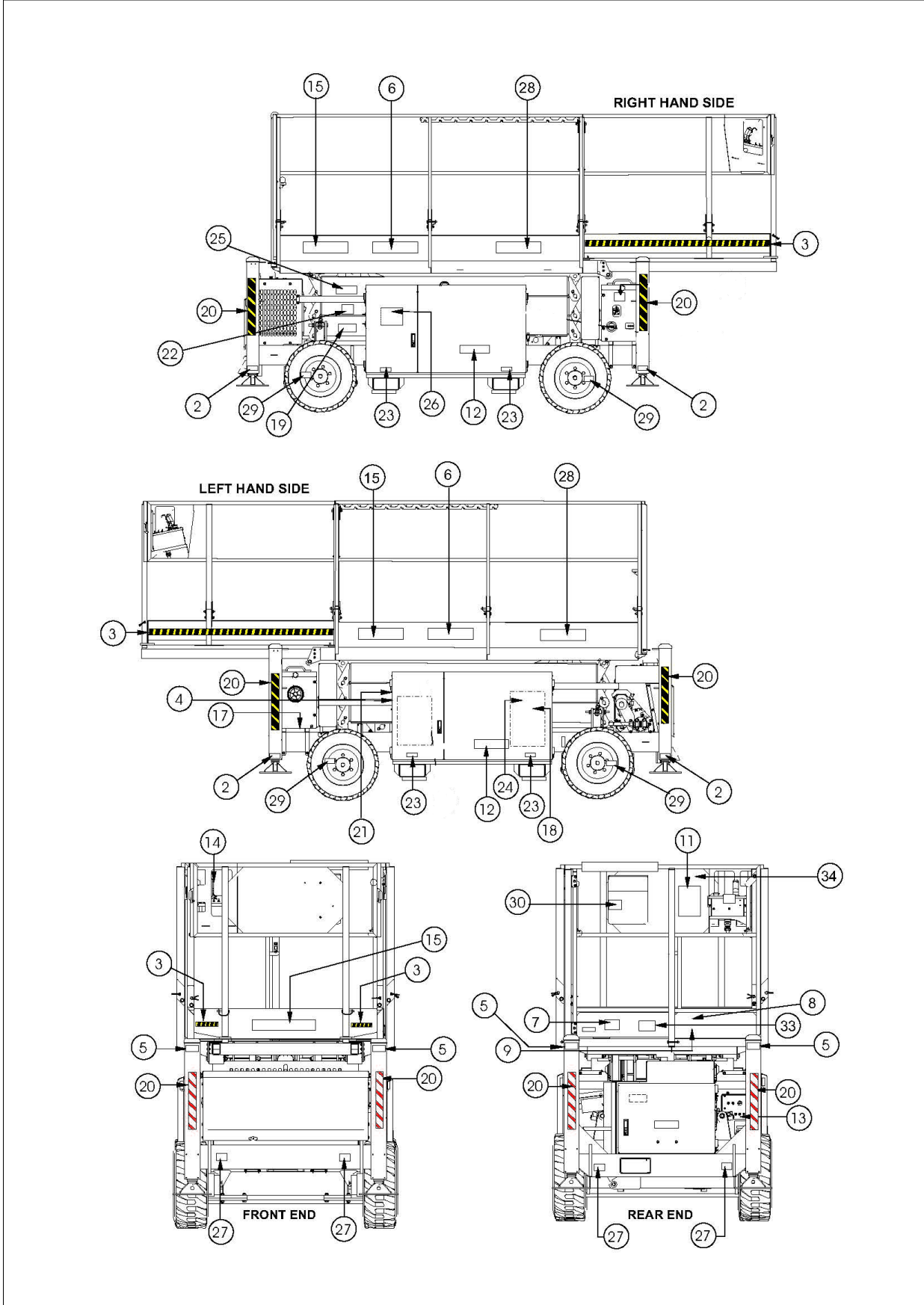
Item	Part No.	Name	Qty	Uom
0	13106-5A	Hydraulic Tank Assembly	1	EA
1	3603-06	Plain Washer	10	EA
2	NL061010CZ	NUT HEX NL M6X1 10.9 C	10	EA
3	3618-11	Hose Clamp 11-25mm ZP	2	EA
4	3618-26	Hose Clamp 26-28mm ZP	1	EA
5	11430-1	Base Plate Weld	1	EA
6	11430-5	Gasket	1	EA
7	11487	Filter Breather	1	EA
8	15056	Tank Inner Hose	1	EA
9	12942	Top Plate Weld	1	EA
10	13106-5	Oil Tank	1	EA
11	13108-04	Plug - 1/4 NPTM	2	EA
12	605246	Strainer Hyd Tank Fill	1	EA
13	605256	Cap, Vented	1	EA

Repair Parts



Item	Part No.	Name	Qty	Uom
1	3603-06	Plain Washer	10	EA
2	NL061010CZ	NUT HEX NL M6X1 10.9 C	10	EA
3	11430-1	Base Plate Weld	1	EA
4	11430-5	Gasket	1	EA
5	11487	Filter Breather	1	EA
6	13108-04	Plug - 1/4 NPTM	2	EA
7	13520-000	Heater Element	1	EA
8	15146	Fuel Tank Weldment	1	EA
9	15256	Fuel Tank Cap, Non Vented	1	EA
10	15354	Top Plate Weld - hyd Oil Tank	1	EA

Repair Parts



Item	Part No.	Name	Qty	Uom
1	0162366	DECAL, ELECTRICAL WARNING	1	EA
2	501453-000	DECAL FOOT TRAP MX19 / SL20 /	4	EA
3	969249	DECAL STRIPE YEL\BLK 1000 INCH	4m	EA
4	12833-4	Decal, Serial Number Plate	1	EA
4	0070901	PLAC CAUTN SERIAL NUMBER	1	EA
5	13111	Decal, Pinch Point, Small	4	EA
6	13903-24	Decal, S2255RTE	2	EA
6	13903-25	Decal, S2755RTE	2	EA
7	12699-1	Decal, Rated load S2255RT	1	EA
7	12699-8	Decal, Rated Load S2755RT	1	EA
8	0073298	DECAL- DANGER FOAM FILL TIRE	1	EA
9	45198-6	Decal, Limit Switch Sign	1	EA
10	516253-000	DECAL, CHARGER SPECIFICATION INFO	1	EA
11	12574	Decal, Safety Checklist	1	EA
12	511099-000	Decal, Snorkel 150mm High	2	EA
13	13839-01	Decal, Lower Control Box	1	EA
14	13838-01	Decal, Upper Control Box	1	EA
15	511101-000	Decal, Snorkel	3	EA
16	516628-000	Decal, Do Not Spray	2	EA
17	12753	Decal, Emergency Bleed Down	1	EA
18	12814	Decal, Hydraulic Fluid	1	EA
19	583656	Decal, Safety Prop Use	1	EA
20	969249	DECAL STRIPE YEL\BLK 1000 INCH	3.6m	EA
21	300699	DECAL, OPERATORS CHECKLIST	1	EA
22	032-3897	Decal, Must not Operate	1	EA
23	621486	Decal, Forklift	4	EA

Item	Part No.	Name	Qty	Uom
24	302950	Decal, Hydraulic Oil Level	1	EA
25	300700	DECAL - BEWARE DESCENDING PLAT	1	EA
26	15078	Decal, Emergency Operation	1	EA
27	0083427	DECAL LIFT/TIE DOWN	4	EA
28	511067-000	Decal, www.snorkellifts.com	2	EA
29	0372061	Decal, Bolt Torque	4	EA
30	562426	Decal, Operators Manual Enclosed	1	EA
31	516213-000	Decal, Isolator ON	1	EA
32	516231-000	DECAL, ONLY AUTHORISED PERSONNEL	1	EA
33	13640-3	Decal, Fall Restraint Point	1	EA
34	1843	DECAL - WARNING NZ ONLY	1	EA
35	516213-001	Decal, Disconnect Terminals	1	EA

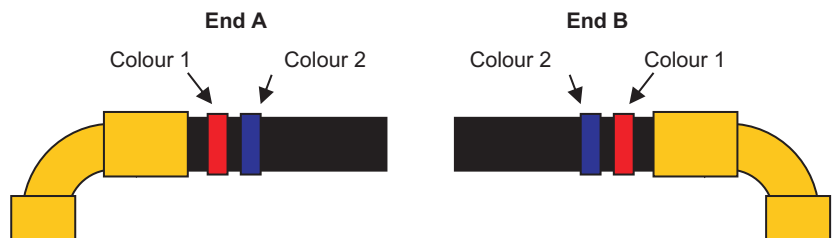
Snorkel Hose		Colour ID		Hose Use: Fitting A -> Fitting B
Part Number	Rev	Colour 1	Colour 2	
13768-02	A	Black	Yellow	Raise Stack: Main Manifold LCP -> Lift Cyl Extend
13768-01	A	Black	White	Lift Cyl Drain: Main Manifold LCR -> Lift Cyl Drain
13963-01	A	---	---	Main Manifold Return: Main Manifold Tank -> Oil Filter
13963-02	A	---	---	Filter Return: Oil Filter -> Hydraulic Oil Tank
13964-01	A	Orange	---	Pump Pressure: Main Manifold Pump -> Pump Pressure Port
13964-02	B	---	---	Suction Line: Pump Suction Port -> Hydraulic Oil Tank
13965-01	A	Red	Yellow	Stab RR Extend: Stab Manifold RRE -> Stab Cyl RR Extend
13965-02	A	Red	Green	Stab RR Retract: Stab Manifold RRR -> Stab Cyl RR Retract
13965-03	A	Orange	Yellow	Stab LR Extend: Stab Manifold LRE -> Stab Cyl LR Extend
13965-04	A	Orange	Green	Stab LR Retract: Stab Manifold LRR -> Stab Cyl LR Retract
13965-05	B	Yellow	Yellow	Stab LF Extend: Stab Manifold LFE -> Stab Cyl LF Extend
13965-06	B	Yellow	Green	Stab LF Retract: Stab Manifold LFR -> Stab Cyl LF Retract
13965-07	A	Green	Yellow	Stab RF Extend: Stab Manifold RFE -> Stab Cyl RF Extend
13965-08	A	Green	Green	Stab RF Retract: Stab Manifold RFR -> Stab Cyl RF Retract
13965-09	B	---	---	Stab Manifold Pressure: Main Manifold STP -> Stab Manifold P
13965-10	A	---	---	Stab Manifold Return: Main Manifold STR -> Stab Manifold R
13966-01	A	Blue	Yellow	Steer Right: Main Manifold SR -> Steer Cyl Extend
13966-02	A	Blue	Green	Steer Left: Main Manifold SL -> Steer Cyl Retract
13966-03	B	Red	---	Drive Forward: Main Manifold DF -> 4WD Manifold DF
13966-04	B	Blue	---	Drive Reverse: Main Manifold DR -> 4WD Manifold DR
13966-05	B	Red	Red	Motor RR CW (Fwd): 4WD Manifold MRRF -> Motor RR Port B
13966-06	B	Red	Blue	Motor RR CCW (Rev): 4WD Manifold MRRR -> Motor RR Port A
13966-07	B	Orange	Red	Motor LR CW (Rev): 4WD Manifold MLRR -> Motor LR Port B
13966-08	B	Orange	Blue	Motor LR CCW (Fwd): 4WD Manifold MLRF -> Motor LR Port A
13966-09	A	Yellow	Red	Motor LF CW (Rev): 4WD Manifold MLFR -> Motor LF Port B
13966-10	A	Yellow	Blue	Motor LF CCW (Fwd): 4WD Manifold MLFF -> Motor LF Port A
13966-11	A	Green	Red	Motor RF CW (Fwd): 4WD Manifold MRFF -> Motor RF Port B
13966-12	A	Green	Blue	Motor RF CCW (Rev): 4WD Manifold MRFR -> Motor RF Port A
13966-13	B	Red	Orange	4WD Block Pilot: Main Manifold Pilot -> 4WD Block Pilot
13966-14	B	Red	Black	4WD Manifold Return: Main Manifold DP -> 4WD Manifold DP
13966-15	A	Red	---	Motor RR Brake: Main Manifold BR -> RR Motor Brake
13966-16	A	Orange	---	Motor LR Brake: Main Manifold BL -> LR Motor Brake
13966-17	A	Green	---	Lock Left Axle: Main Manifold AXL -> LH Axle Cyl
13966-18	A	Black	---	Lock Right Axle: Main Manifold AXR -> RH Axle Cyl

READING HOSE TAGS

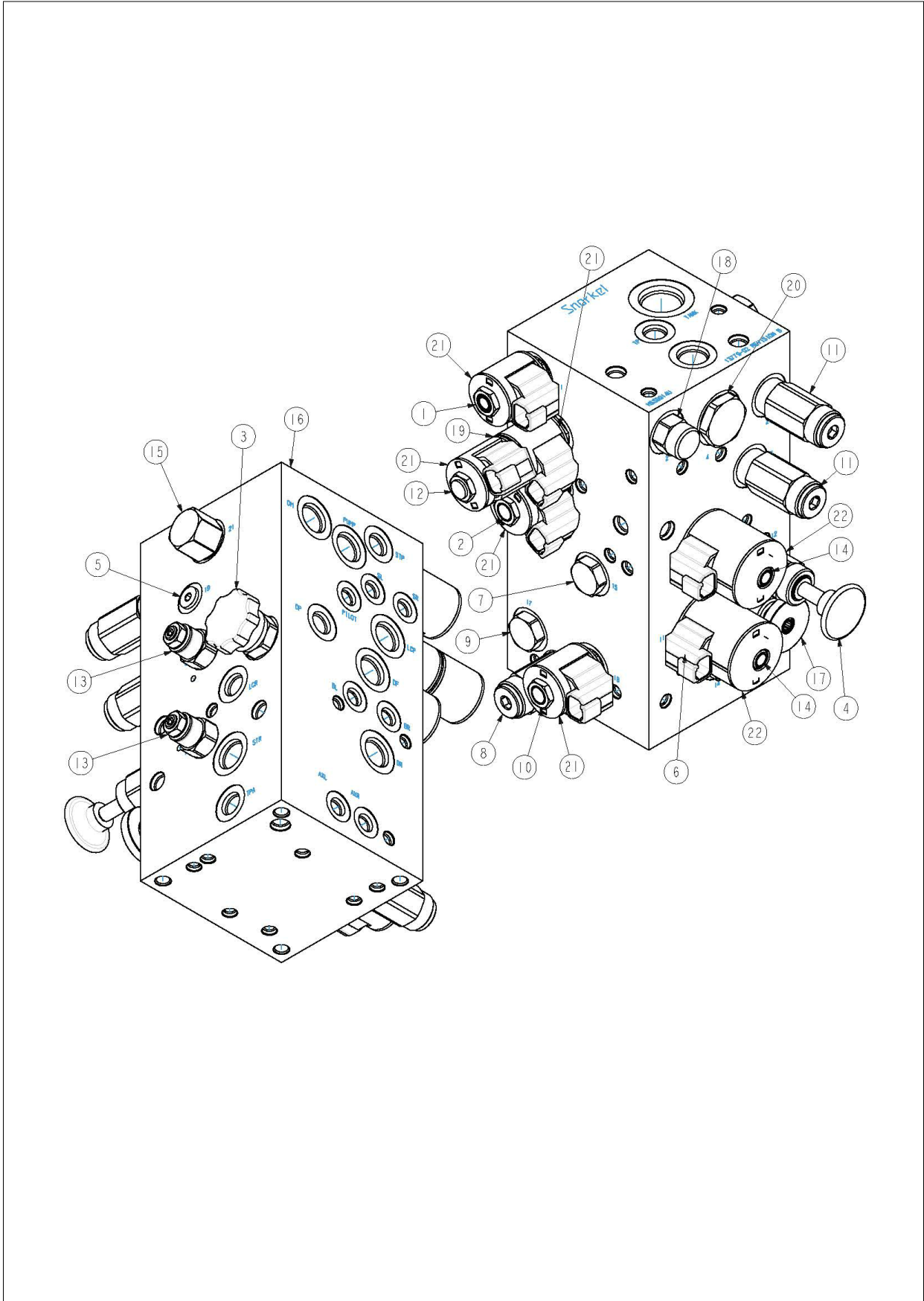
Hose tags are read from the fitting side of the hose intowards the hose.

As such colour 1 is the closest to the fitting, colour 2 the next colour then 3, 4 etc...

Hose tags need to be on both ends of the hose

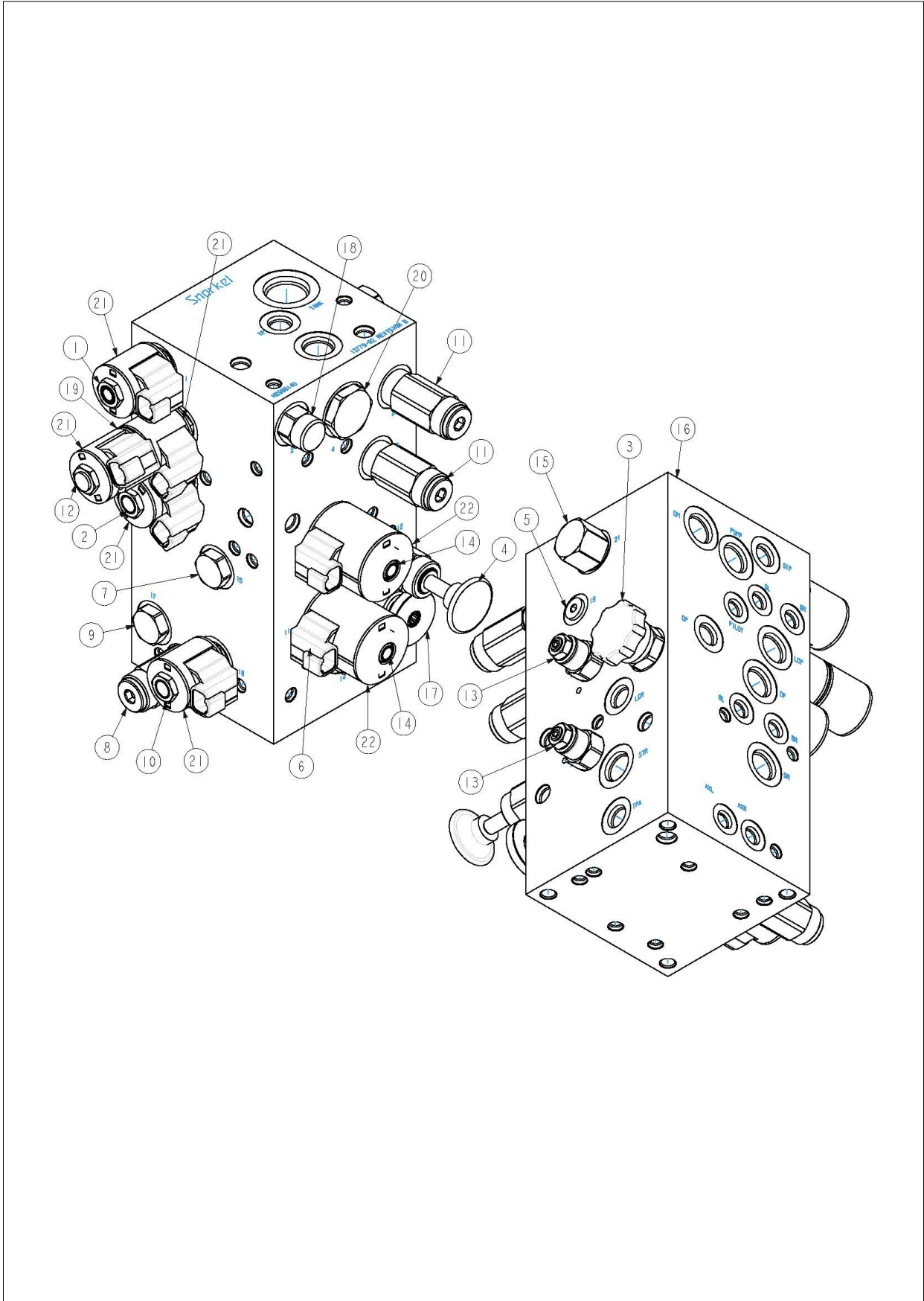


Hydraulics



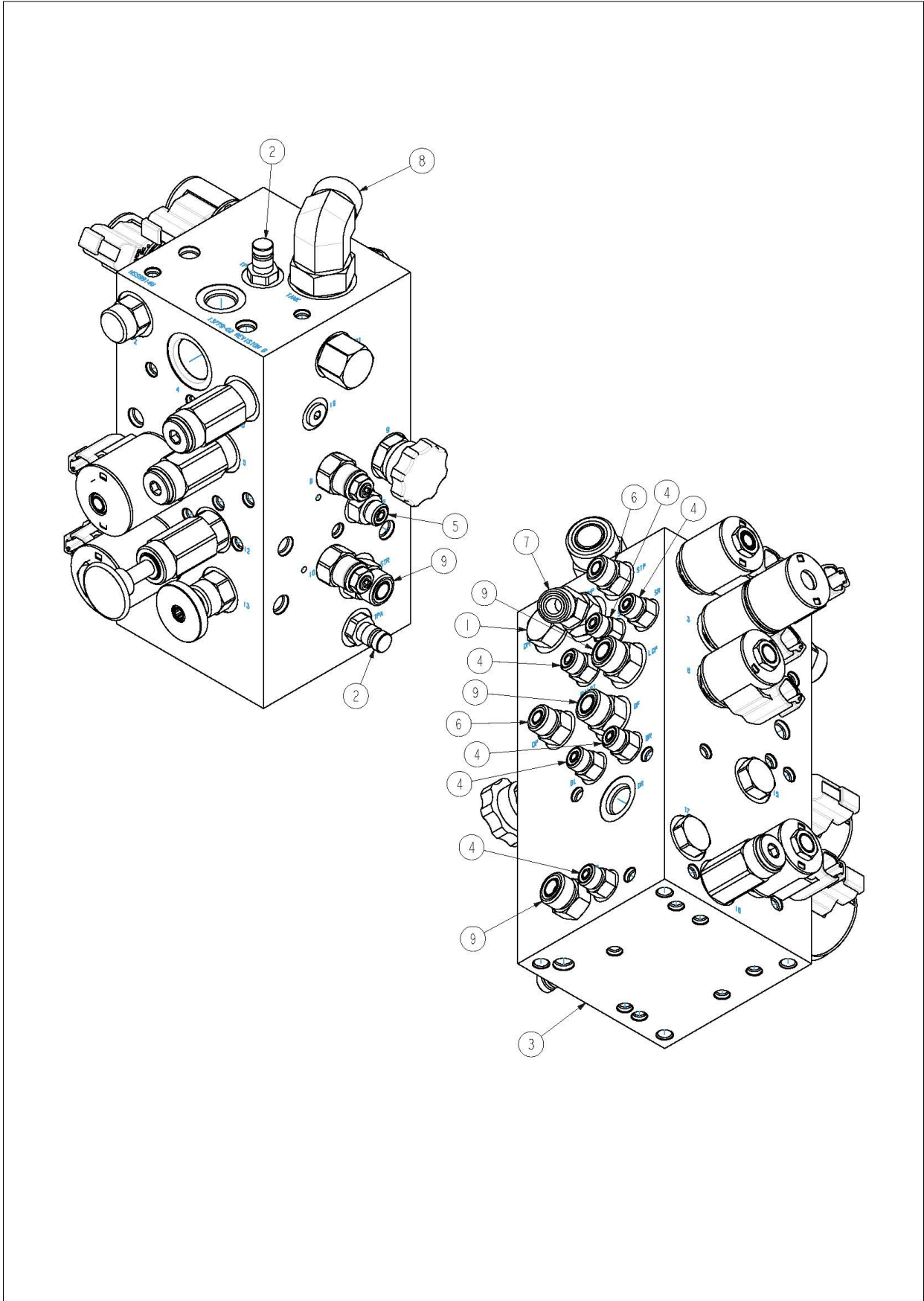
Item	Part No.	Name	Qty	Uom
1	12567-1	Cartridge, Solenoid - Poppet, 2-Way, NC	1	EA
2	12569-1	SELECTOR VALVE SERIES PARALELL	1	EA
3	6010292	CARTRIDGE NEEDLE VALVE	1	EA
4	12567-19	Cartridge, Hand Pump	1	EA
5	106574-103	#08 CHECK VALVE 10 PSI	1	EA
6	106574-103	#08 CHECK VALVE 10 PSI	1	EA
7	6010737	SHUTTLE VALVE	1	EA
8	12567-23	Cartridge, Pressure Reducing	1	EA
9	12567-24	Cartridge, Flow Control, Orifice Check	1	EA
10	6019033	CARTRIDGE 3-WAY/2-POS	1	EA
11	601955	Cartridge- Relief, Direct-Acting Poppet	2	EA
12	12568-1	Cartridge, Solenoid - Spool, 4-Way, 3-Posn Closed Center	1	EA
13	13161-17	Cartridge, Counter Balance	2	EA
14	13161-18	Cartridge, Solenoid - Poppet, 3-Port, NC	2	EA
15	13161-28	Cartridge, Pressure Compensate & Flow Regulator	1	EA
16	13779-01	Manifold Block - Main	1	EA
17	13779-02	Cartridge, Needle Valve	1	EA
18	13779-03	Cartridge, Flow Regulator, Pressure Comensated	1	EA
19	13881-08	Coil Spacer - 08	1	EA
20	15381	Cavity Plug (1-2 Open)	1	EA
21	6019180	Coil - 08 12V Deutsch DT Connector	5	EA
22	6019184	Coil - 10 12V Deutsch DT Connector	2	EA

Hydraulics



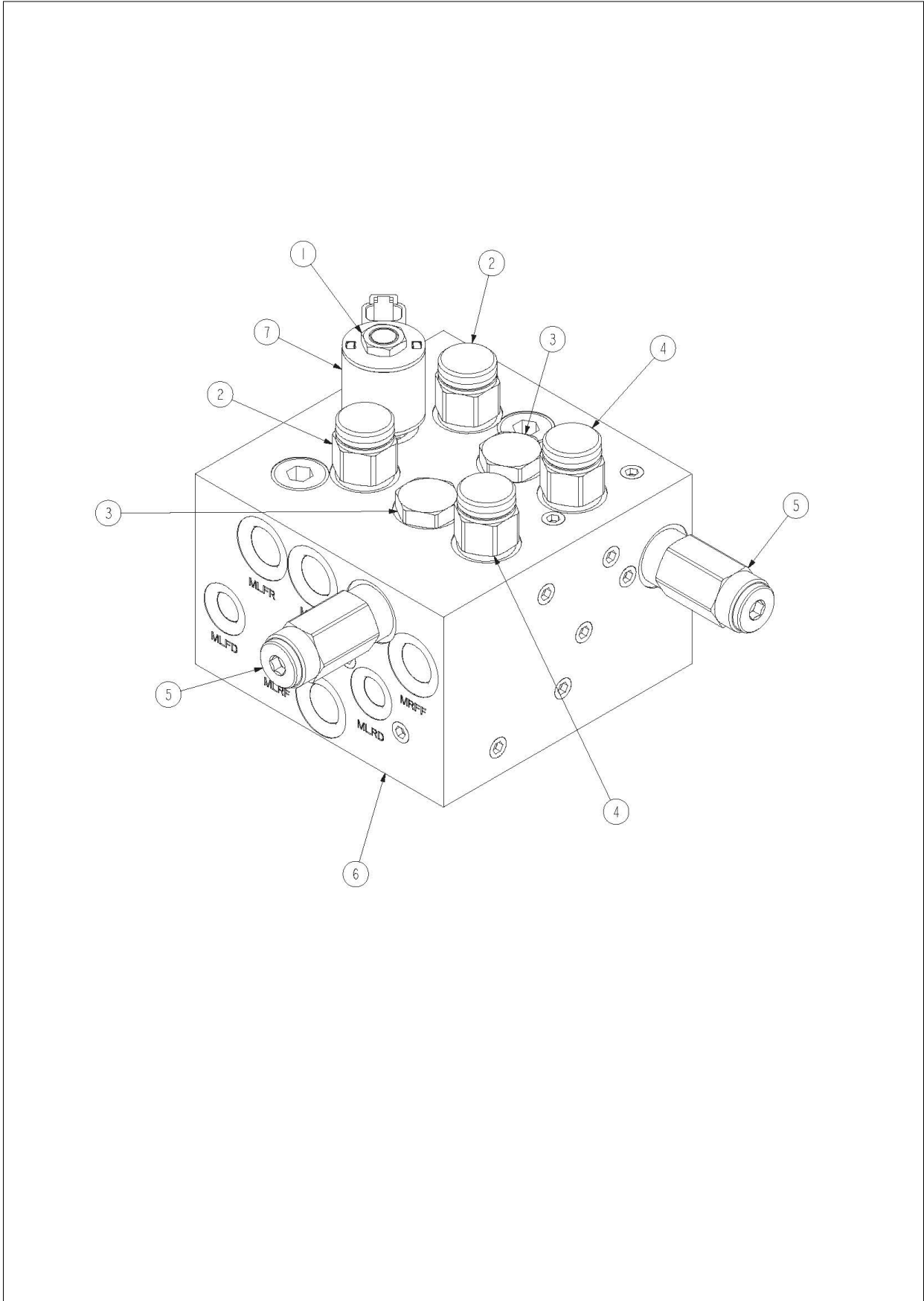
Item	Part No.	Name	Qty	Uom
1	12567-1	Cartridge, Solenoid - Poppet, 2-Way, NC	1	EA
2	12569-1	SELECTOR VALVE SERIES PARALELL	1	EA
3	6010292	CARTRIDGE NEEDLE VALVE	1	EA
4	12567-19	Cartridge, Hand Pump	1	EA
5	106574-103	#08 CHECK VALVE 10 PSI	1	EA
6	106574-103	#08 CHECK VALVE 10 PSI	1	EA
7	6010737	SHUTTLE VALVE	1	EA
8	12567-23	Cartridge, Pressure Reducing	1	EA
9	12567-24	Cartridge, Flow Control, Orifice Check	1	EA
10	6019033	CARTRIDGE 3-WAY/2-POS	1	EA
11	601955	Cartridge- Relief, Direct-Acting Poppet	2	EA
12	12568-1	Cartridge, Solenoid - Spool, 4-Way, 3-Posn Closed Center	1	EA
13	13161-17	Cartridge, Counter Balance	2	EA
14	13161-18	Cartridge, Solenoid - Poppet, 3-Port, NC	2	EA
15	13161-28	Cartridge, Pressure Compensate & Flow Regulator	1	EA
16	13779-01	Manifold Block - Main	1	EA
17	13779-02	Cartridge, Needle Valve	1	EA
18	13779-06	Cartridge, Flow Regulator & Pressure Compensated	1	EA
19	13881-08	Coil Spacer - 08	1	EA
20	15381	Cavity Plug (1-2 Open)	1	EA
21	6019180	Coil - 08 12V Deutsch DT Connector	5	EA
22	6019184	Coil - 10 12V Deutsch DT Connector	2	EA

Hydraulics



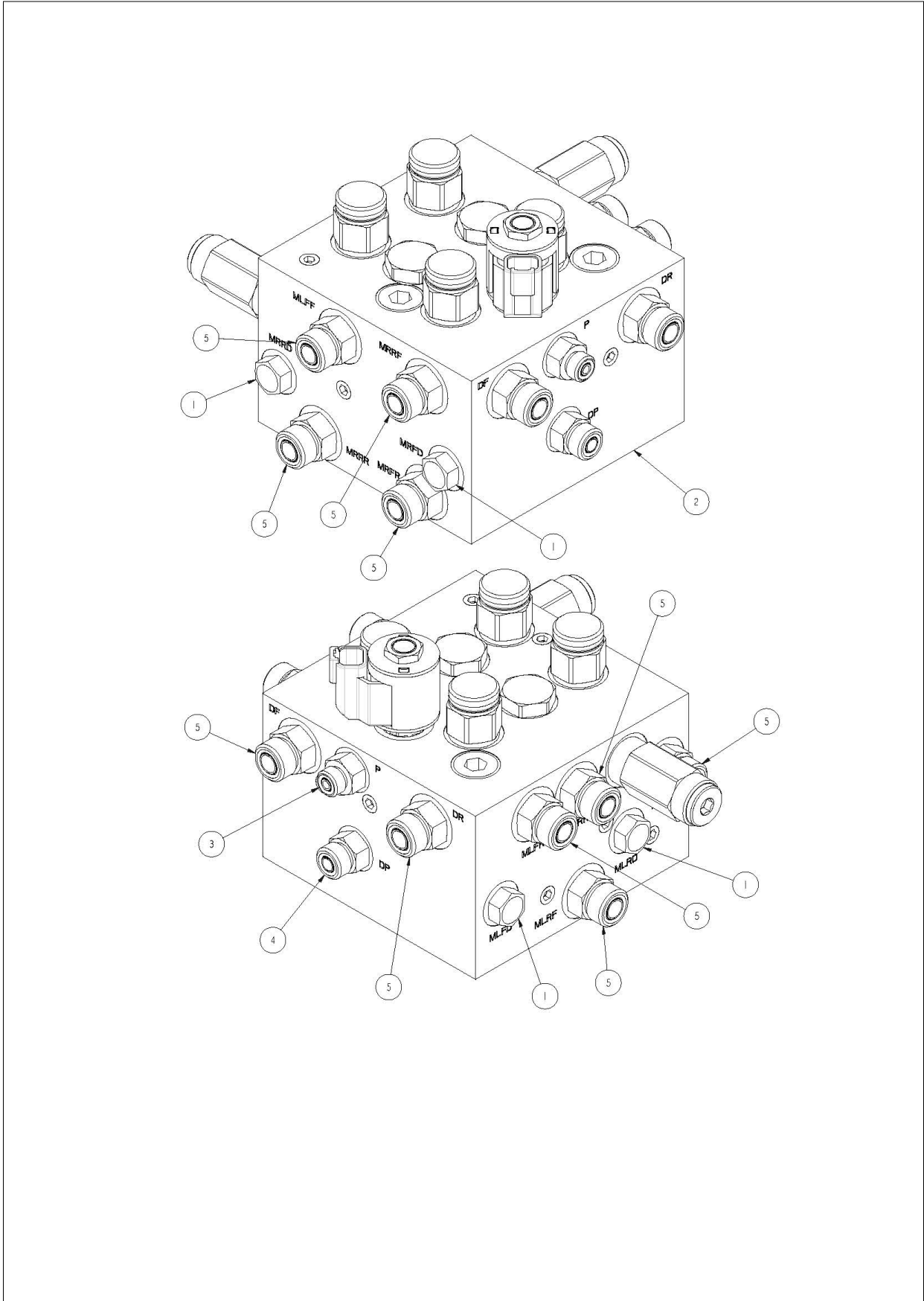
Item	Part No.	Name	Qty	Uom
1	7035-002	Hyd Plug - SAE 08 (3/4 Thread)	1	EA
2	10996-2	Test Point - UNO, 9/16	2	EA
3	13779-04	Main Manifold	1	EA
4	100432-002	FTG, STR, 4MORFF X 4MORB	7	EA
5	100432-004	FTG, STR, 4MORFF X 6MORB	1	EA
6	100432-009	FTG, STR, 6MORFF X 6MORB, PARKER 6 F5OLO	2	EA
7	100433-008	Hyd Fitting - 45 Elbow ORFS(08) - SAE(08)	1	EA
8	100434-021	FTG, 90°, 12MORFF X 12MORB, PARKER 12 C5OLO	1	EA
9	512970-000	Hyd Fitting - Straight ORFS(08) - SAE(08)	4	EA

Hydraulics



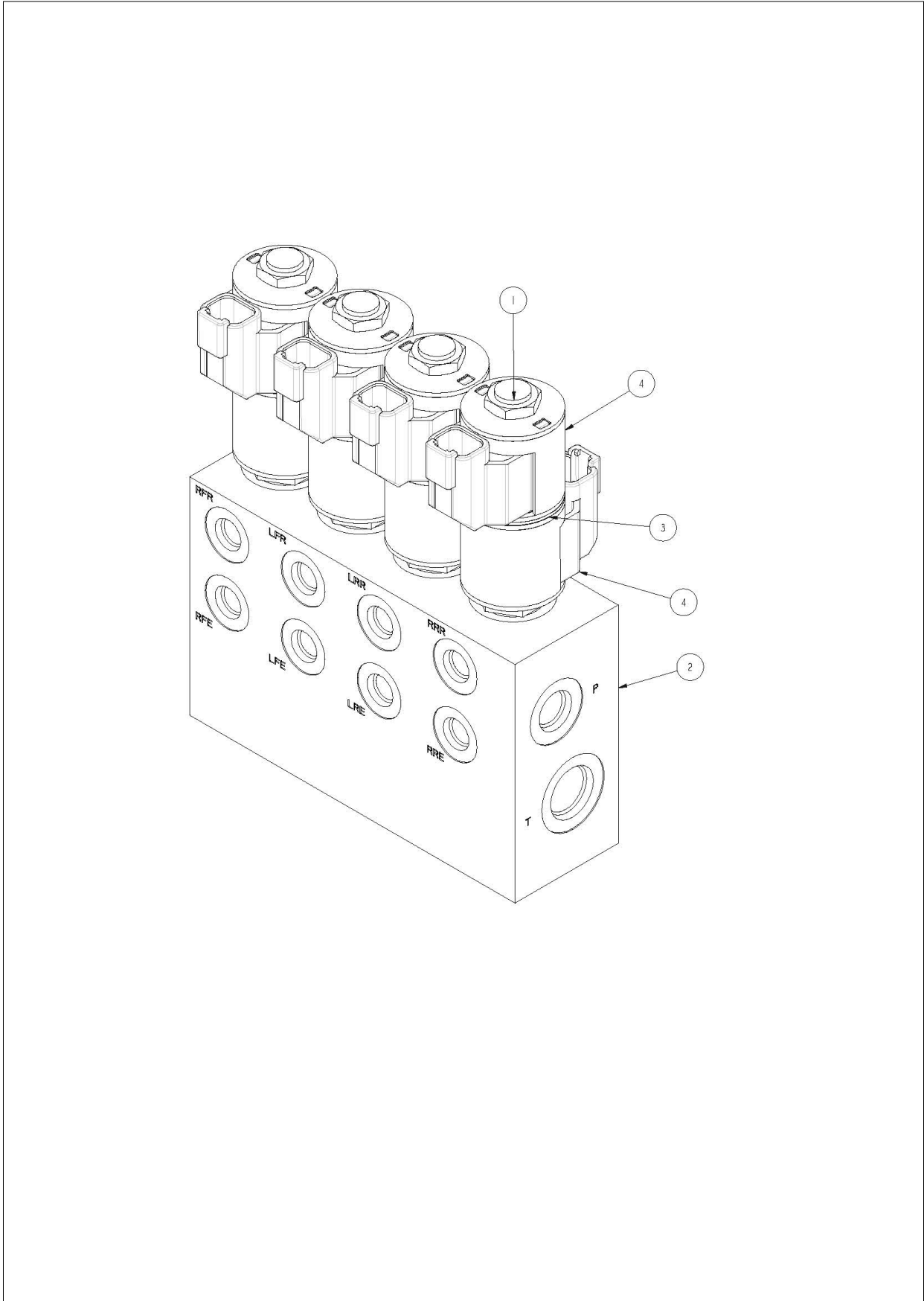
Item	Part No.	Name	Qty	Uom
1	12569-1	SELECTOR VALVE SERIES PARALELL	1	EA
2	12569-2	Cartridge, Piloted, 2-Way, Spool, NO	2	EA
3	12569-3	Cartridge, Flow Divider/Combiner	2	EA
4	12569-5	Cartridge, Piloted, 2-Way, Spool, NC	2	EA
5	12569-6	Cartridge, Relief, Pilot - Operated	2	EA
6	13780	4WD Manifold	1	EA
7	6019180	Coil - 08 12V Deutsch DT Connector	1	EA

Hydraulics



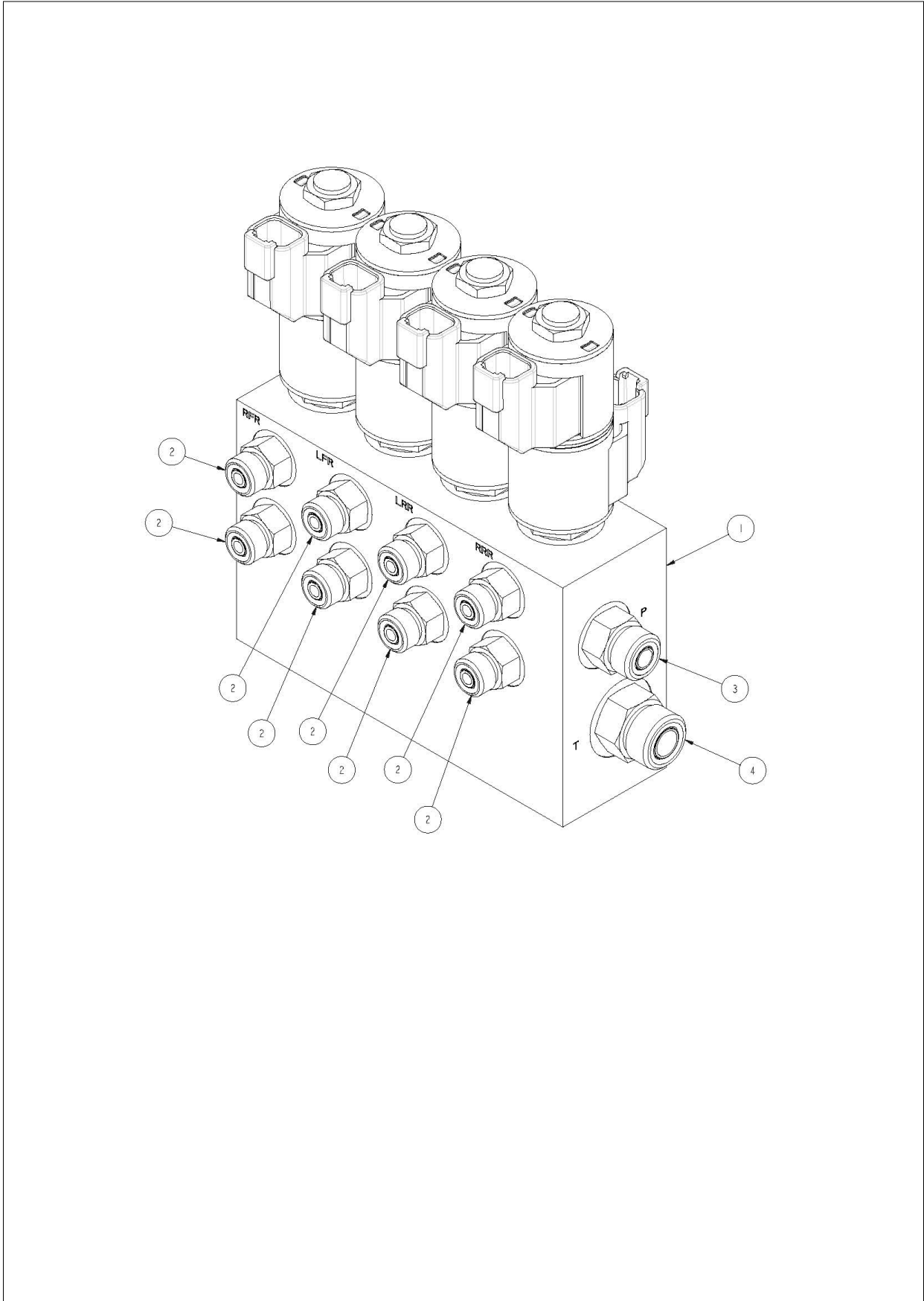
Item	Part No.	Name	Qty	Uom
0	15089	4WD Manifold Assembly	1	EA
1	7035-001	Hyd Plug - SAE 06 (9/16" Thread)	4	EA
2	13780	4WD Manifold	1	EA
3	100432-004	FTG, STR, 4MORFF X 6MORB	1	EA
4	100432-009	FTG, STR, 6MORFF X 6MORB, PARKER 6 F5OLO	1	EA
5	512970-000	Hyd Fitting - Straight ORFS(08) - SAE(08)	10	EA

Hydraulics



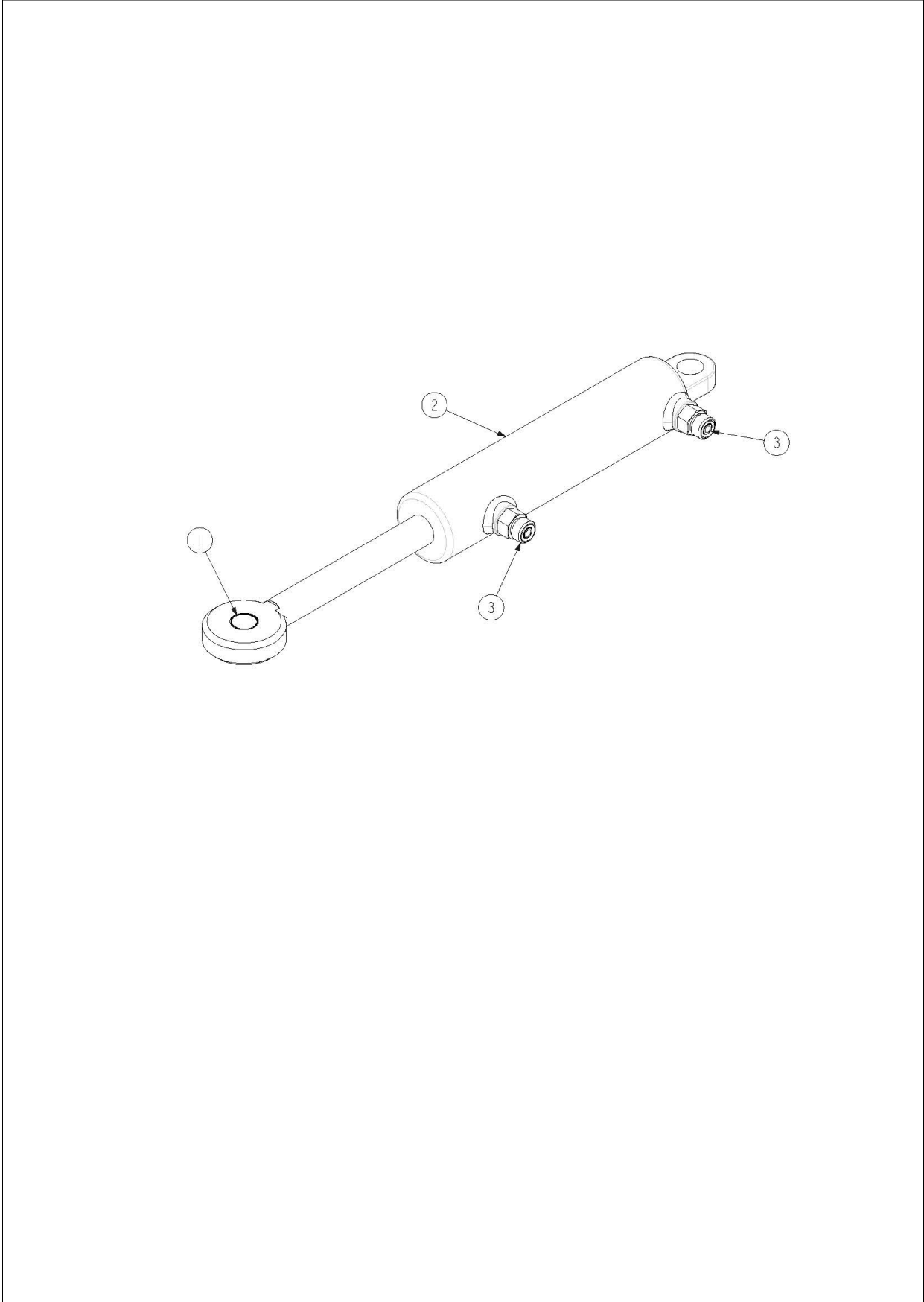
Item	Part No.	Name	Qty	Uom
1	12568-1	Cartridge, Solenoid - Spool, 4-Way, 3-Posn Closed Center	4	EA
2	13781-01	Manifold Block	1	EA
3	13881-08	Coil Spacer - 08	4	EA
4	6019180	Coil - 08 12V Deutsch DT Connector	8	EA

Hydraulics



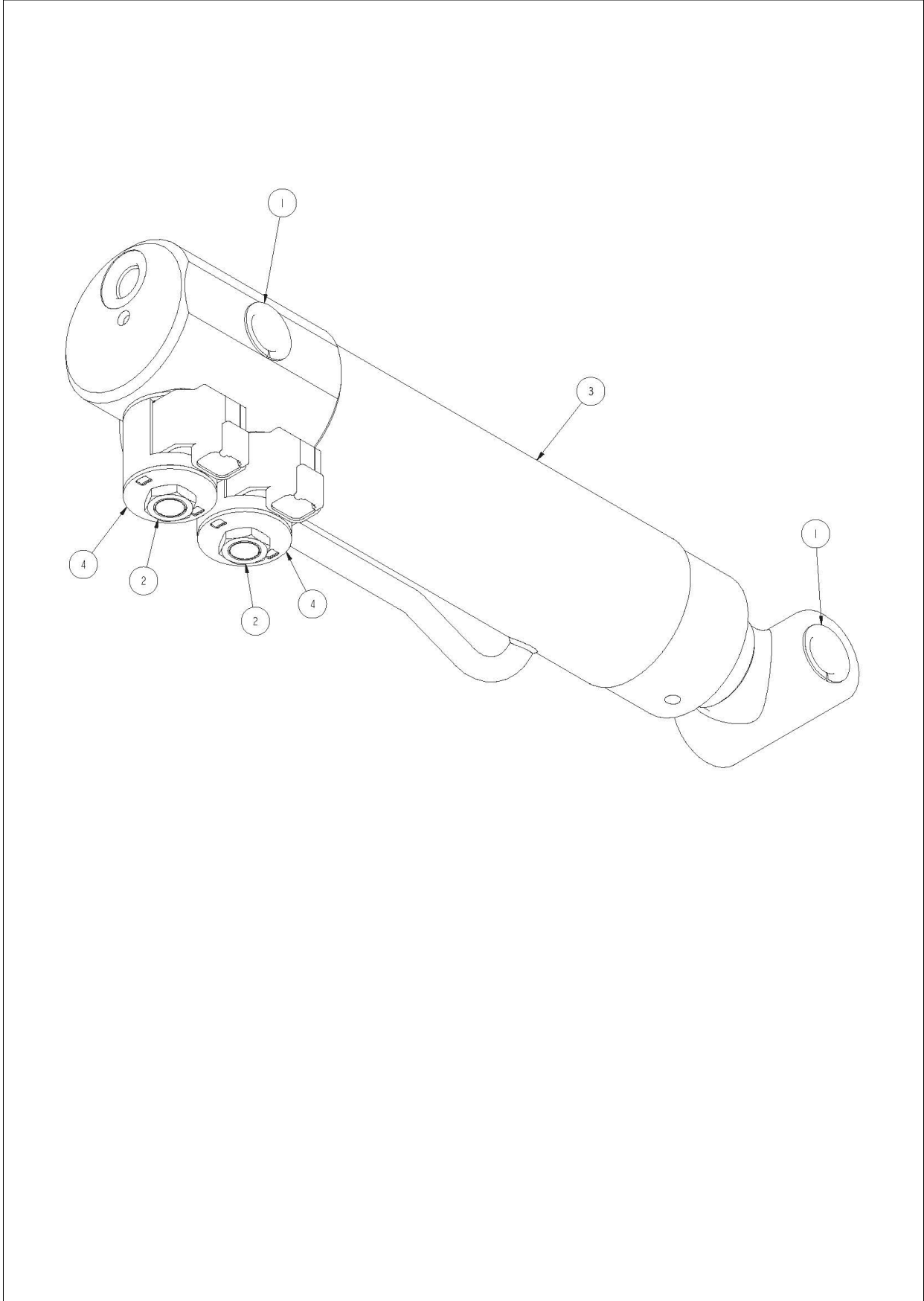
Item	Part No.	Name	Qty	Uom
0	13781A	Stabiliser Manifold Assembly	1	EA
1	13781	Stabiliser Manifold	1	EA
2	100432-002	FTG, STR, 4MORFF X 4MORB	8	EA
3	100432-009	FTG, STR, 6MORFF X 6MORB, PARKER 6 F5OLO	1	EA
4	512970-000	Hyd Fitting - Straight ORFS(08) - SAE(08)	1	EA

Hydraulics



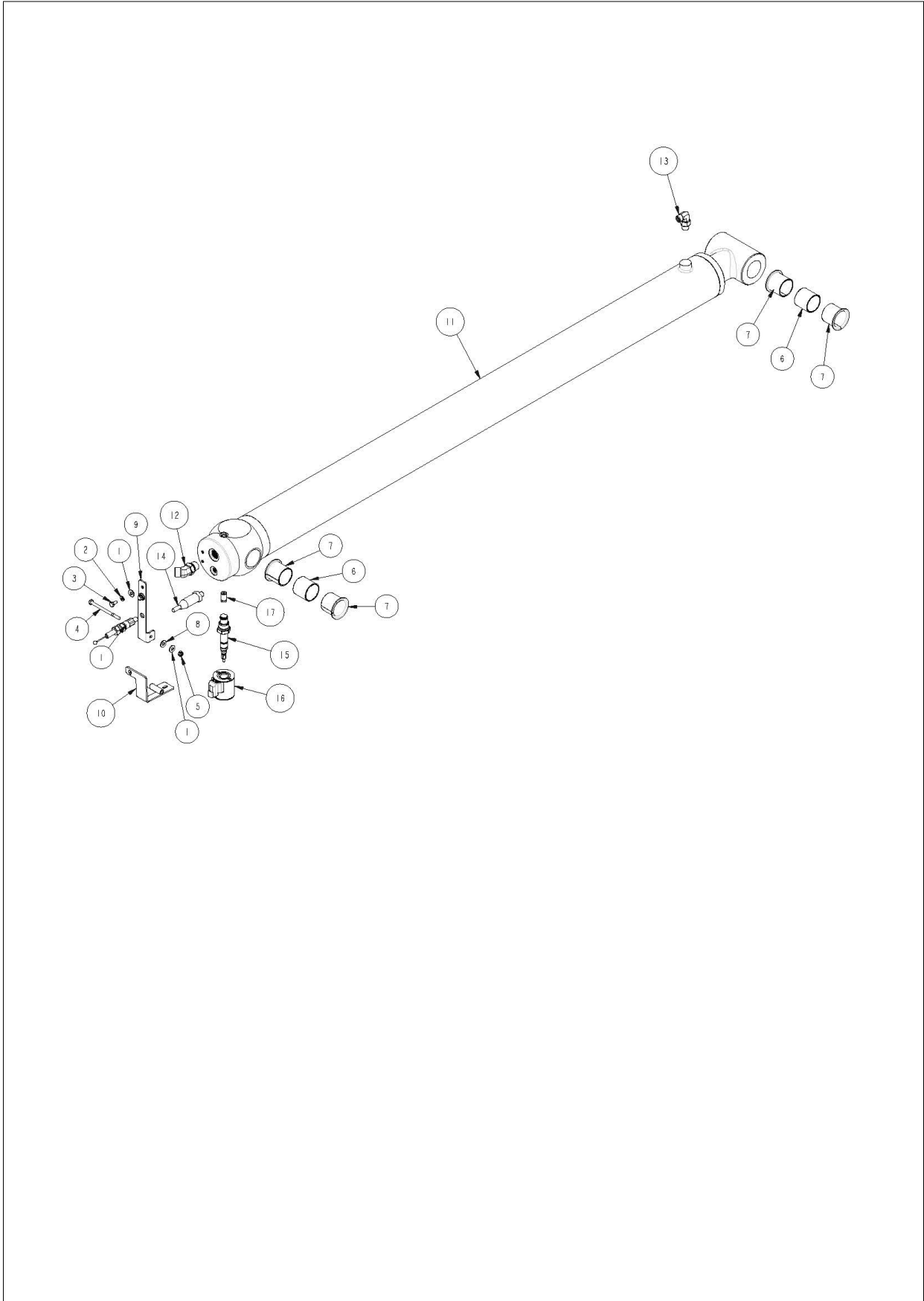
Item	Part No.	Name	Qty	Uom
1	3624-27	Permaglide Bush	1	EA
2	11699	Steer Cylinder	1	EA
3	100432-002	FTG, STR, 4MORFF X 4MORB	2	EA
4	11699K	Seal kit - Victor	1	EA
4	11699K-PB	Seal Kit - PB	1	EA
4	11699K-UH	Seal Kit - UH	1	EA

Hydraulics



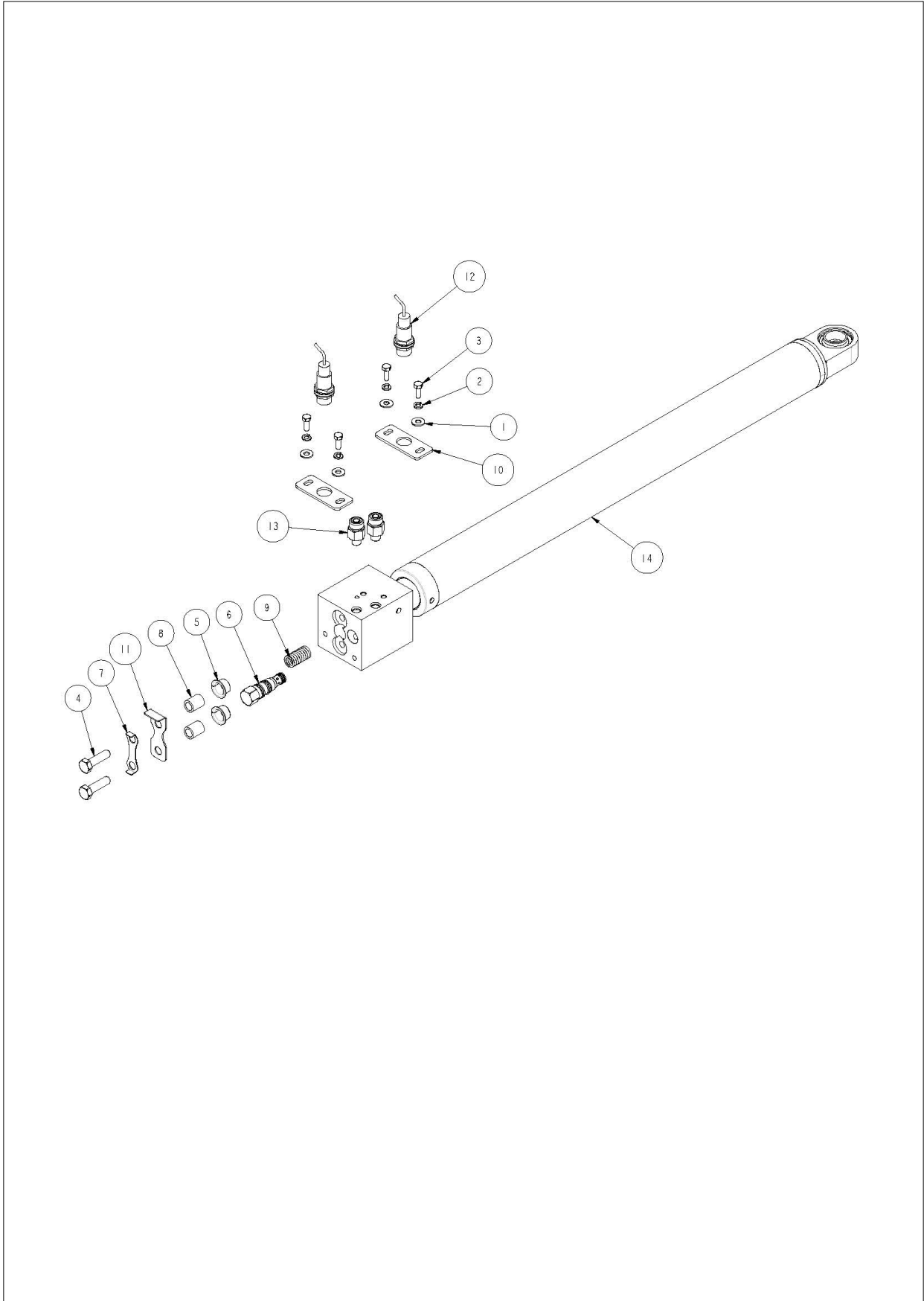
Item	Part No.	Name	Qty	Uom
1	3626-3	Flanged permaglride bush	4	EA
2	12835-1	Cartridge, Solenoid - Poppet, 2-Way, NC	2	EA
3	15204	Cylinder - Dual Lock	1	EA
4	6019180	Coil - 08 12V Deutsch DT Connector	2	EA

Hydraulics



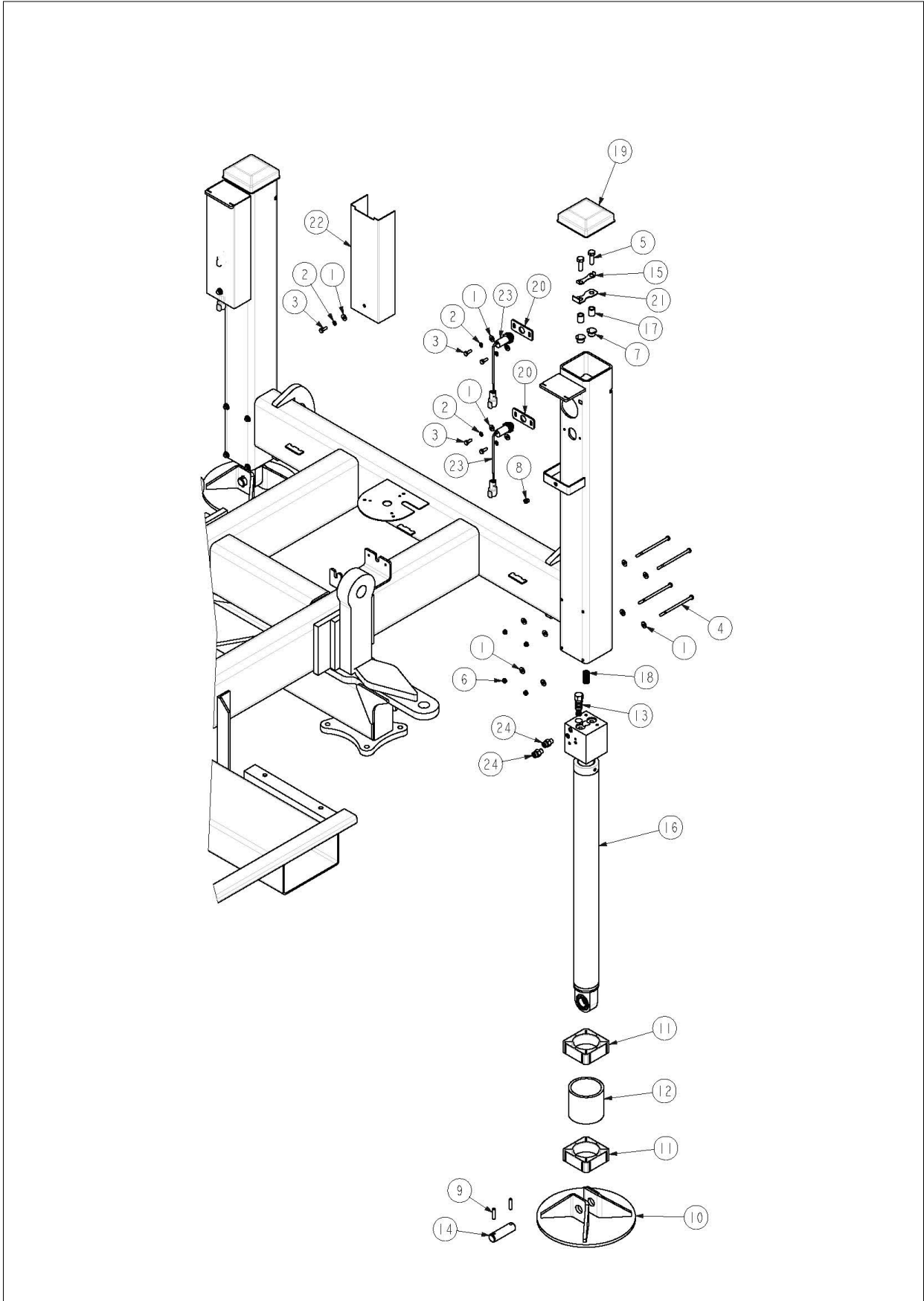
Item	Part No.	Name	Qty	Uom
1	3603-06	Plain Washer	4	EA
2	056021-006	Washer, SpringWasher DIN127B M	2	EA
3	058491-012	Bolt, HexSetScrew DIN933 M6 x	2	EA
4	3610-06085	Metric Bolt	1	EA
5	NL061010CZ	NUT HEX NL M6X1 10.9 C	1	EA
6	3624-40	Permaglide Bush	2	EA
7	3626-19	Flanged Permaglide Bush	4	EA
8	3641-06	Nylon Washer	1	EA
9	12647-1	Cylinder Lever Pivot Plate	1	EA
10	12648	Valve Lever	1	EA
11	13952	SR Lift Cylinder	1	EA
12	100433-008	Hyd Fitting - 45 Elbow ORFS(08) - SAE(08)	1	EA
13	100434-004	FTG, 90°, 4MORFF X 6MORB, PARKER 4-6 C5OLO	1	EA
14	3030158	PRESSURE TRANSDUCER	1	EA
15	6018024	Solenoid Valve, @-Way, NC, 20V	1	EA
16	6019184	Coil - 10 12V Deutsch DT Connector	1	EA
17	15013-063	Check Valve Poppet Flow	1	EA

Hydraulics

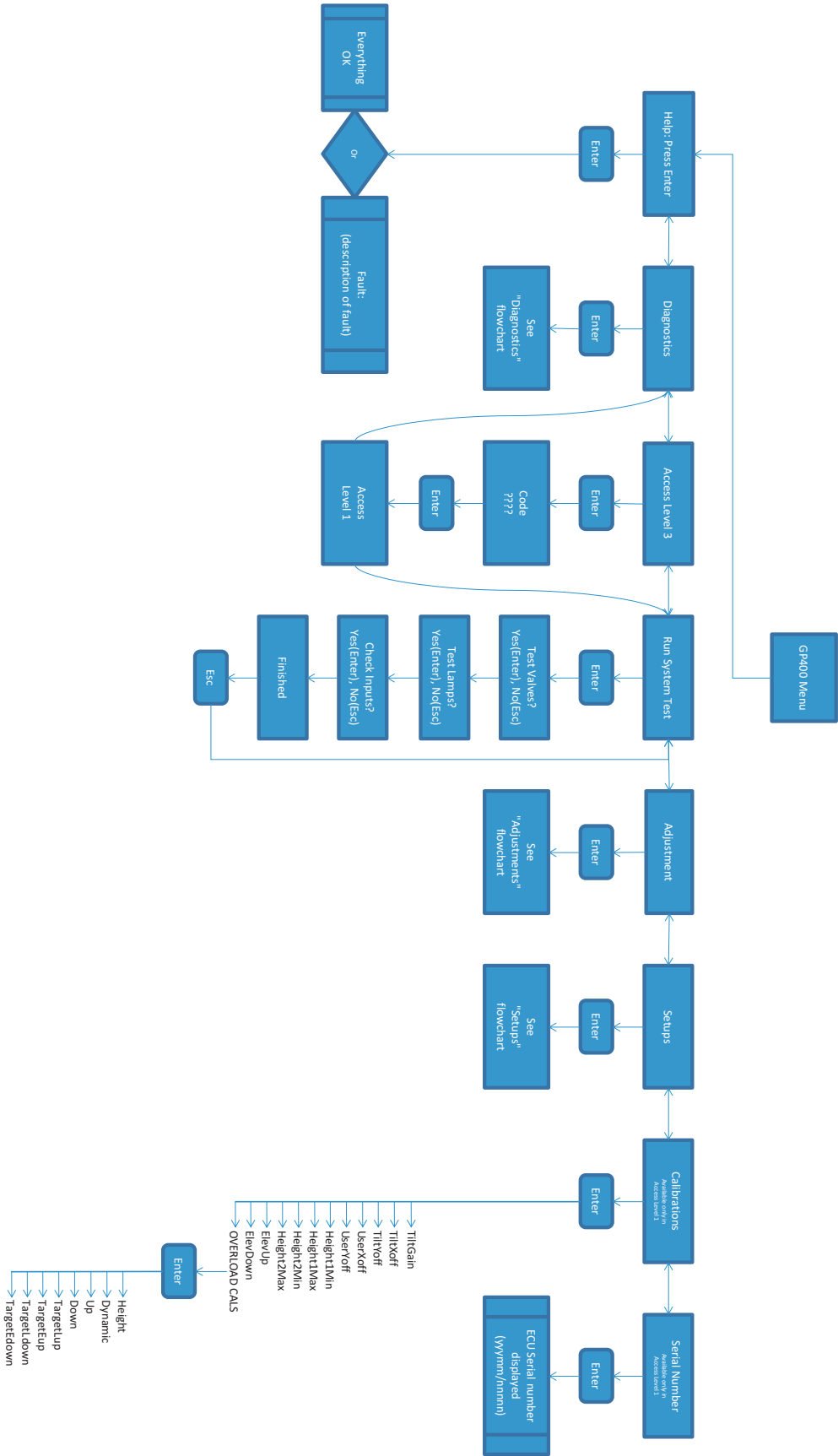


Item	Part No.	Name	Qty	Uom
1	3603-06	Plain Washer	4	EA
2	056021-006	Washer, SpringWasher DIN127B M	4	EA
3	058491-016	BOLT HEX SET SCREW DIN933 M6 X 16MM 8.8 ZINC PLATED	4	EA
4	3610-10035	Metric Bolt	2	EA
5	3626-8	Flanged Permaglide Bush	2	EA
6	11367-2	Pilot-to-open Check Valve With Sealed Pilot	1	EA
7	11492-4	Dual Locktab	1	EA
8	12036-5	Sliding Spacer	2	EA
9	12036-6	Compression Spring	1	EA
10	14098-01-4	PROX MOUNT BRACKET	2	EA
11	14098-02	Prox Target, Leg Grounded, SR	1	EA
12	15085-03	Axle Prox	2	EA
13	100432-007	FTG, STR, 6MORFF X 4MORB, PARKER 6-4F5OLO	2	EA
14	12036	Cylinder - Stabiliser SR	1	EA

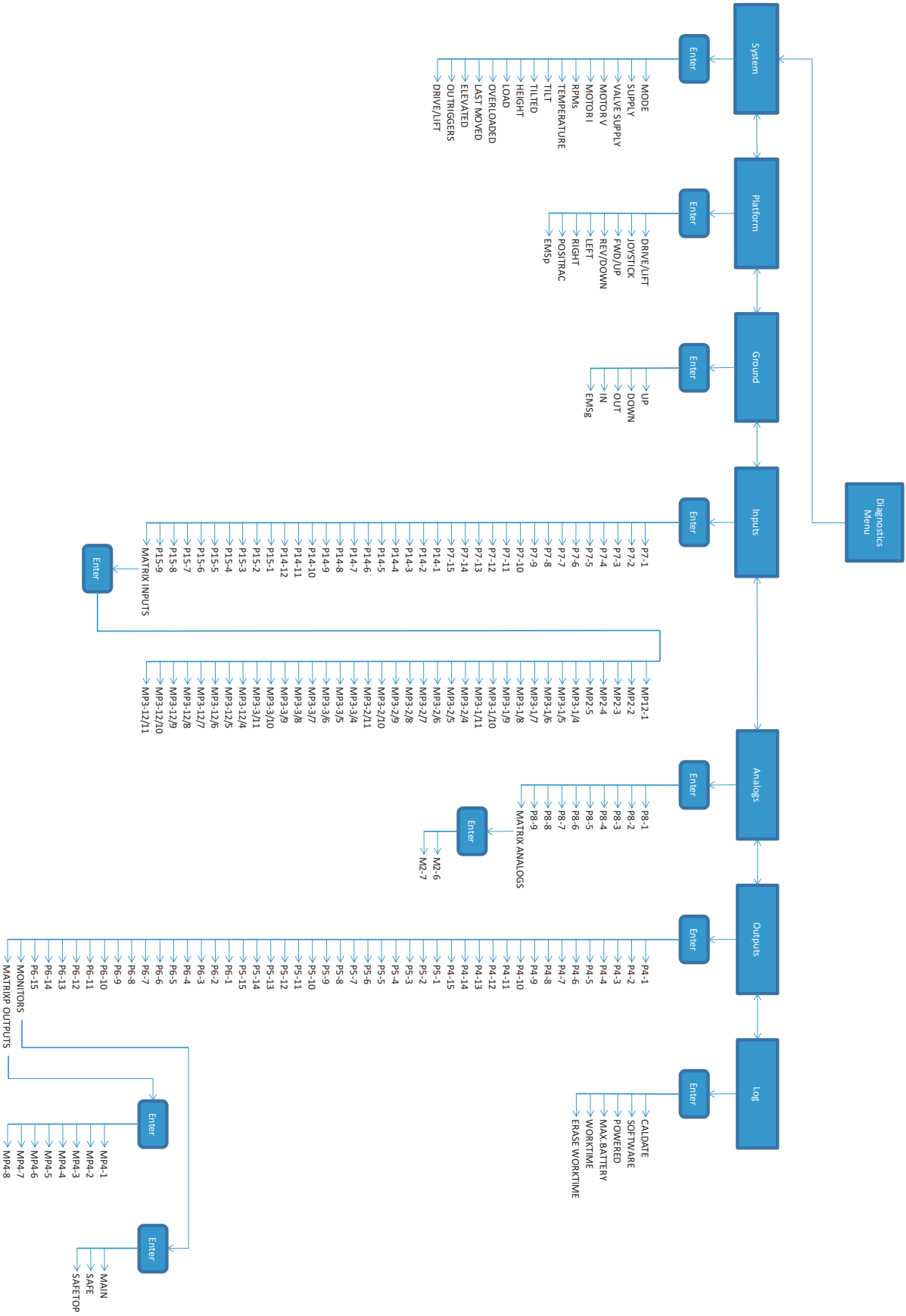
Hydraulics



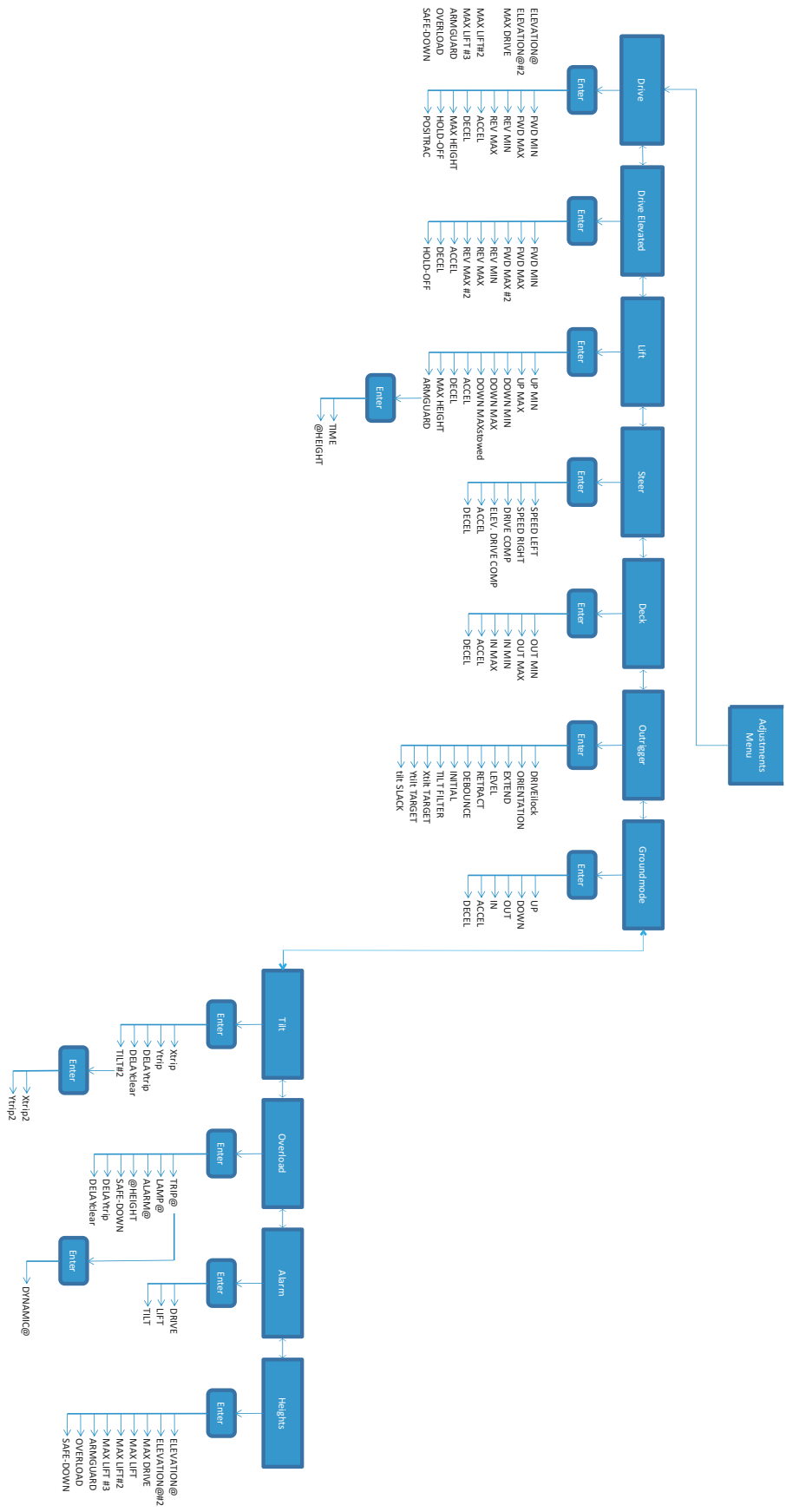
Item	Part No.	Name	Qty	Uom
1	3603-06	Plain Washer	52	EA
2	056021-006	Washer, SpringWasher DIN127B M	20	EA
3	058491-016	BOLT HEX SET SCREW DIN933 M6 X 16MM 8.8 ZINC PLATED	20	EA
4	3610-06110	Metric Bolt	16	EA
5	058493-030	Bolt, HexSetScrew DIN933 M10 x	8	EA
6	NL061010CZ	NUT HEX NL M6X1 10.9 C	16	EA
7	3626-8	Flanged Permaglride Bush	8	EA
8	505050-006	M6 x 20mm Socket Button Scre w	4	EA
9	3633-3	Roll Pin	8	EA
10	11305	Foot Weld Inverted Stabiliser Leg	4	EA
11	15431	Stabiliser Bush	8	EA
12	11366-2	Stabiliser Bush Spacer	4	EA
13	11367-2	Pilot-to-open Check Valve With Sealed Pilot	4	EA
14	11369	Pin 7/8" x 76mm	4	EA
15	11492-4	Dual Locktab	4	EA
16	15430	Cylinder	4	EA
17	12036-5	Sliding Spacer	8	EA
18	12036-6	Compression Spring	4	EA
19	13771-50	RHS Cap 100x100 Steel	4	EA
20	14098-01-4	PROX MOUNT BRACKET	8	EA
21	14098-02	Prox Target, Leg Grounded, SR	4	EA
22	14098-03	Hose Cover	4	EA
23	15085-03	Axle Prox	8	EA
24	100432-002	FTG, STR, 4MORFF X 4MORB	8	EA



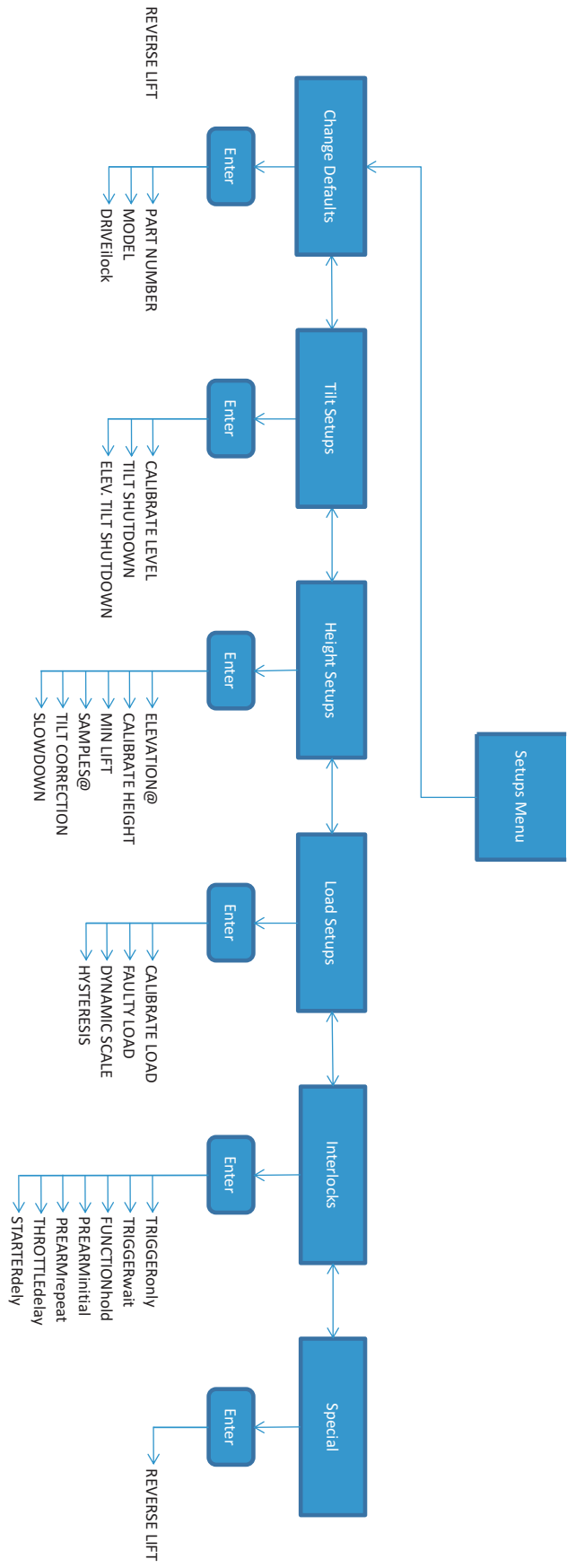
GP400 I/O Menu Diagnostics



GP400 I/O Menu Adjustments



GP400 I/O Menu Setups



GP400 I/O Allocations

GP400 I/O allocations

Pin	Function
P1-1	CAN1H
P1-2	CAN1L
P1-3	GND

P9-1	RS232 B+ supply
P9-2	RS232 Rx
P9-3	RS232 Tx
P9-4	RS232 Gnd

P4-1	Proportional Valve
P4-2	
P4-3	Ground Alarm
P4-4	Fwd
P4-5	Rev
P4-6	High Speed Valve
P4-7	Fuel run solenoid
P4-8	
P4-9	
P4-10	
P4-11	O/R Function enable
P4-12	
P4-13	Lift down (gravity)
P4-14	Brake release
P4-15	Lift down (gravity)

P5-1	RL up
P5-2	Steer Left
P5-3	Steer Right
P5-4	24V contactor
P5-5	Lift up
P5-6	Start relay
P5-7	RR up
P5-8	FR up
P5-9	FR Down
P5-10	
P5-11	RR down
P5-12	Cold start relay
P5-13	
P5-14	
P5-15	RL down

P6-1	Lift allowed lamp
P6-2	
P6-3	
P6-4	Overload lamp
P6-5	
P6-6	
P6-7	Axle release
P6-8	
P6-9	
P6-10	Axle release
P6-11	
P6-12	
P6-13	FL up
P6-14	FL down
P6-15	'not safe' Throttle

P7-1	From TBM POS (supply)
P7-2	Ground
P7-3	Enable
P7-4	Platform
P7-5	Start
P7-6	Cold Start
P7-7	24VDC Electric operation
P7-8	Lift UP
P7-9	Lift DOWN
P7-10	
P7-11	
P7-12	
P7-13	Oil pressure
P7-14	
P7-15	Alternator sense

P8-1	Engine Temperature
P8-2	Ezfit #1 input
P8-3	
P8-4	
P8-5	Ezfit #2 input
P8-6	Pressure transducer input
P8-7	
P8-8	
P8-9	From TBM # 3
P8-10	
P8-11	
P8-12	connect to P8-1
P8-13	
P8-14	connect to TBM-
P8-15	

P15-1	
P15-2	
P15-3	
P15-4	
P15-5	
P15-6	
P15-7	
P15-8	
P15-9	Height Limit 1
P15-10	
P15-11	
P15-12	

P14-1	F/R outrigger Down
P14-2	F/L outrigger Down
P14-3	R/R outrigger Down
P14-4	R/L outrigger Down
P14-5	F/R outrigger Up
P14-6	F/L outrigger Up
P14-7	R/R outrigger Up
P14-8	R/L outrigger Up
P14-9	Axle switches
P14-10	Height Limit 2
P14-11	
P14-12	

Matrix I/O allocations

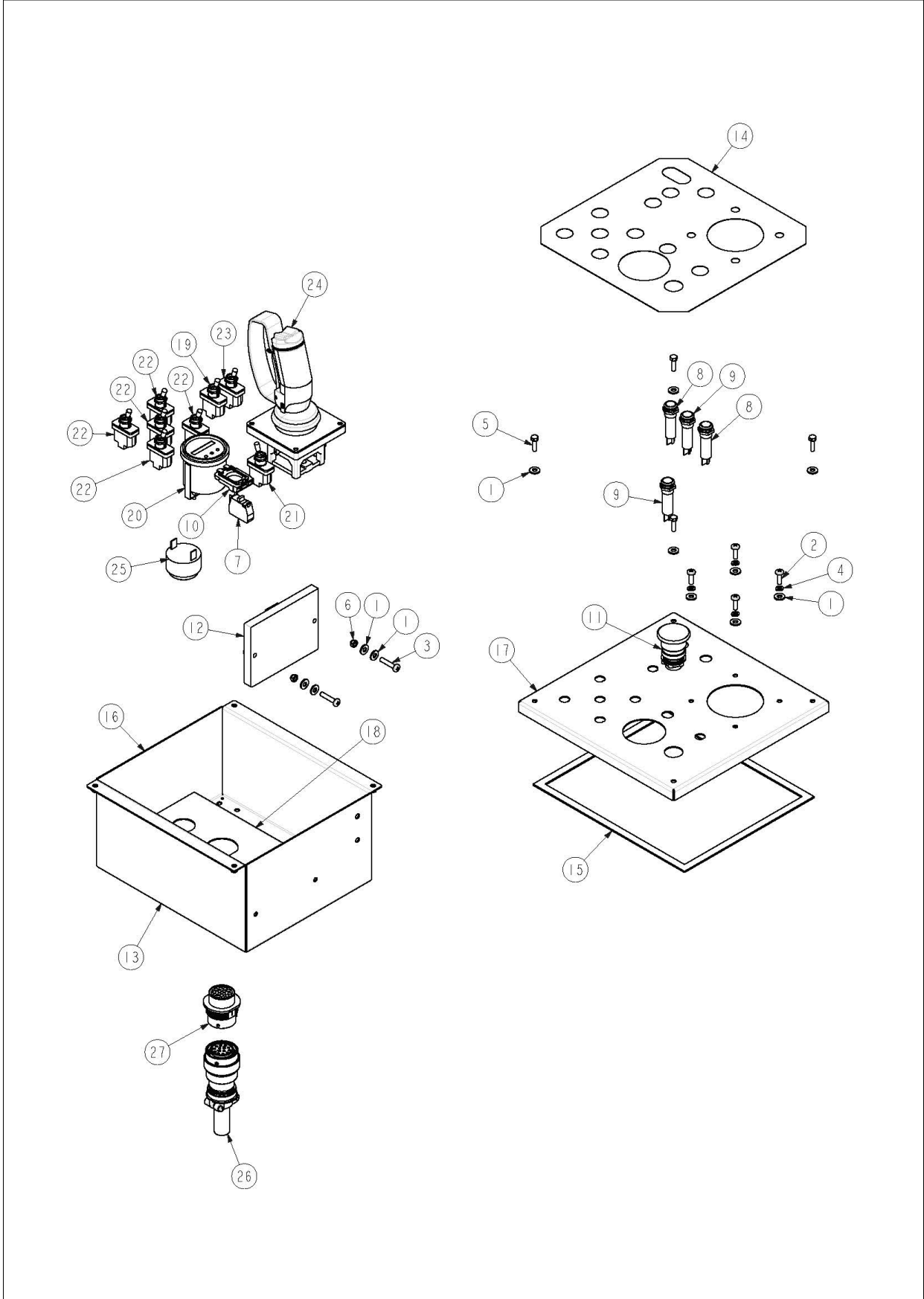
Pin	Function
MP1-1	Platform Mode B+ supply
MP1-2	Ground Mode
MP1-3	CANH
MP1-4	GND
MP1-5	GND
MP1-6	CANL

MP2-1	Engine start
MP2-2	
MP2-3	Steer left
MP2-4	Steer right
MP2-5	Trigger (enable)
MP2-6	Joystick (0.5V-2.5V-4.5V)
MP2-7	
MP2-8	
MP2-9	
MP2-10	Joystick supply
MP2-11	Joystick supply
MP2-12	Switch supply

	MP3-1	MP3-2	MP3-3
MP3-1			
MP3-2			
MP3-3			
MP3-4	O/R AUTO RETRACT	O/R AUTO EXTEND	
MP3-5	O/R F/R RETRACT	O/R F/R EXTEND	
MP3-6	O/R F/L RETRACT	O/R F/L EXTEND	
MP3-7	O/R R/R RETRACT	O/R R/R EXTEND	
MP3-8	O/R R/L RETRACT	O/R R/L EXTEND	
MP3-9	LIFT SELECT	DRIVE SELECT	
MP3-10		24VDC select	
MP3-11	HIGHSPEED SELECT	COLD START	
MP3-12			MP3-12

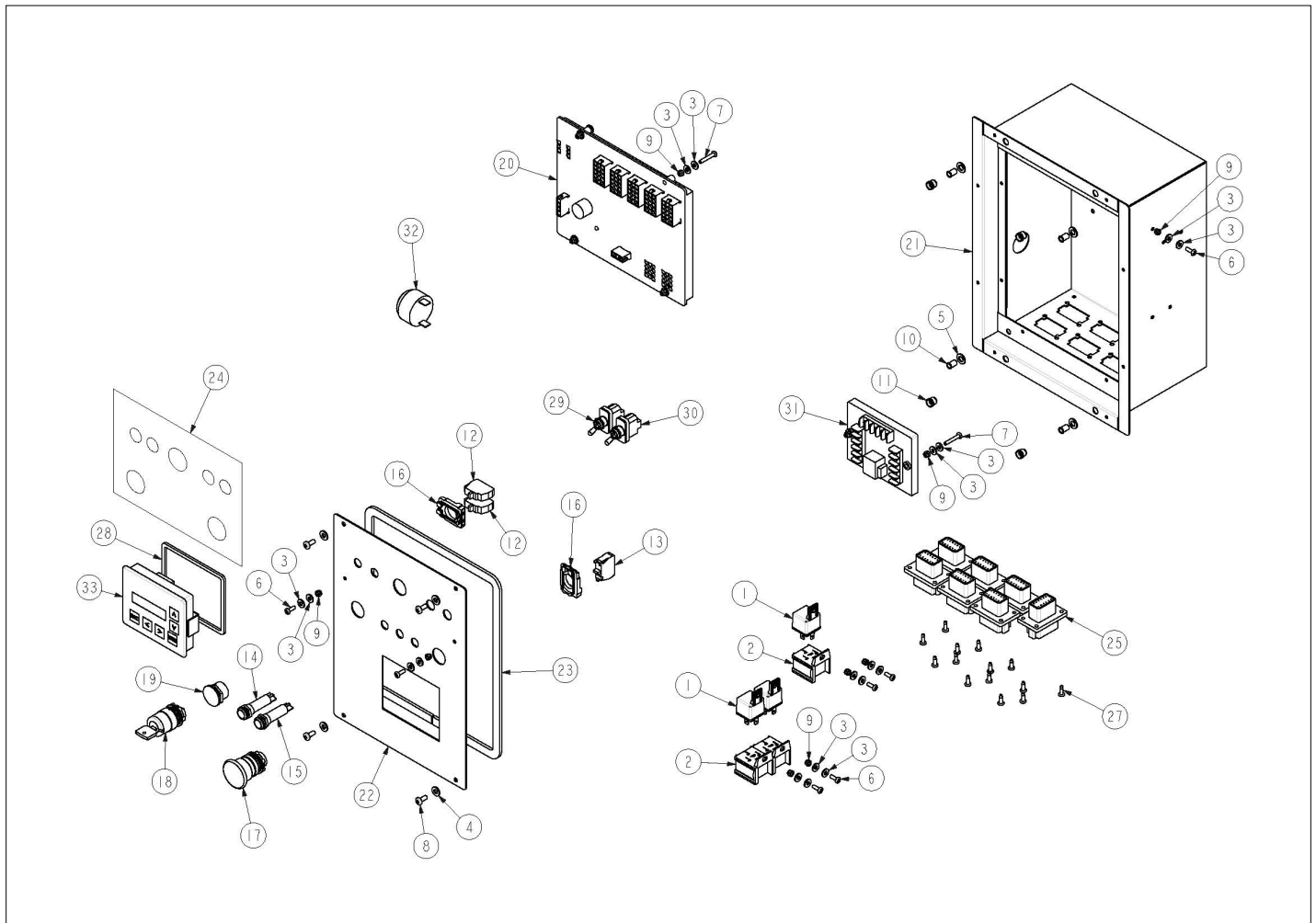
MP4-1	Warning lamp
MP4-2	Lift allowed lamp
MP4-3	Overload lamp
MP4-4	Drive allowed lamp
MP4-5	All alarm
MP4-6	
MP4-7	
MP4-8	
MP4-9	

Electrical



Item	Part No.	Name	Qty	Uom
1	FLWM0510CZ	WASHER FLAT M5 10.9 C	16	EA
2	3604-05016	Pan Head Screw	4	EA
3	3604-05025	Pan Head Screw	2	EA
4	3605-05	Spring Washer	4	EA
5	3610-05016	Metric Bolt	4	EA
6	3611-05	Metric Nyloc Nut	6	EA
7	10118	Contact, NC - Telemac ZBE-102	1	EA
8	12536-3	LED - Green, 12V M12	2	EA
9	12536-4	LED - Red, 12V M12	2	EA
10	12914-10	Collar	1	EA
11	12914-11	E-Stop - 40mm, Pull Release	1	EA
12	515612-000	MATRIX BOARD PG	1	EA
13	13808-02	Control Box Base Fold - Lower	1	EA
14	13838-10	Decal, Upper Control Box	1	EA
15	13862	Foam Strip	1	EA
16	14022	Control Box Base, Upper	1	EA
17	14022-01	Control Box Lid, Upper	1	EA
18	14022-03	Control Box Base Insert	1	EA
19	329926	Switch, Toggle - Honeywell INTI-1	1	EA
20	516042-000	DISPLAY,CURTIS CAN	1	EA
21	3020015	SW TGL SPST (ON) OFF SEALED	1	EA
22	3020016	SW TGL SPDT (M/OFF/M) HONEYWELL INT1-7	5	EA
23	3020047	SW TGL SPDT (ON-NONE-ON)	1	EA
24	3028933	JOYSTICK, OEM WITH GUARD	1	EA
25	3040411	ALARM MINI SIREN 6-28VDC MURPH	1	EA
26	3049861	Plug, HD30, 14 Way	1	EA
27	3049862	14 WAY CONNECTOR DEUTSCH HD34-18-14PN	1	

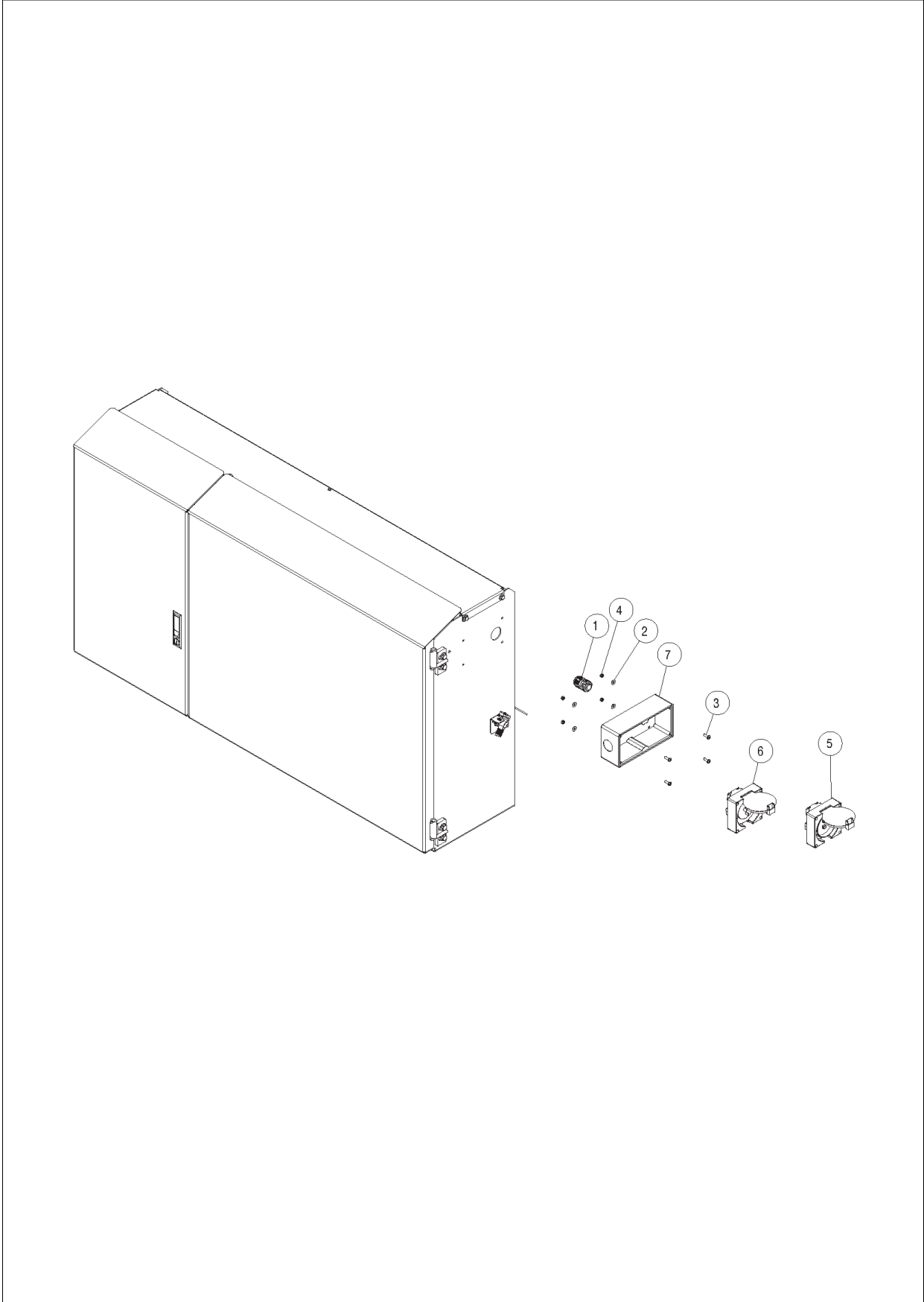
Electrical



Item	Part No.	Name	Qty	Uom
1	562326	Relay	3	EA
2	2065-002	Plug In Relay Base	3	EA
3	510588-004	Washer, SteelFlatWasher DIN125C M4 ZincPlated	28	EA
4	FLWM0510CZ	WASHER FLAT M5 10.9 C	4	EA
5	3603-07	Plain Washer	4	EA
6	3604-04012	Pan Head Screw	8	EA
7	3604-04025	Pan Head Screw	6	EA
8	510593-012	Pan head screw, M5 x 12 mm	4	EA
9	NL040710CZ	NUT HEX NL M4X0.7 10.9 C	14	EA
10	3628-05	Nutsert M5	4	EA
11	505050-006	M6 x 20mm Socket Button Scre w	4	EA
12	10114	Contact, NO - Telemac ZBE-101	2	EA
13	10118	Contact, NC - Telemac ZBE-102	1	EA
14	12536-3	LED - Green, 12V M12	1	EA
15	12536-4	LED - Red, 12V M12	1	EA
16	12914-10	Collar	2	EA
17	12914-12	Push Button - 40mm, Red	1	EA
18	12914-13	Key Switch -1-(2)-3, 455 Key	1	EA
19	12914-6	Plastic Blanking Plug	1	EA
20	13485-05	TRIONICS GP400C	1	EA
21	13810	Control Box Weld	1	EA
22	13810-5	Contorl Box - Face Panel	1	EA
23	13811-1	Foam Seal	1	EA
24	13839-03	Decal, Lower Control Box	1	EA
25	13852-12	DT04-12PA-1012	7	EA
26	13878-02	Harness - Lower Control Box	1	EA
27	13926-1008	Screw, T25 - Pan Pozi, ZP	14	EA
28	514345-000	Gasket - EZCal Display	1	EA
29	3020015	SW TGL SPST (ON) OFF SEALED	1	EA

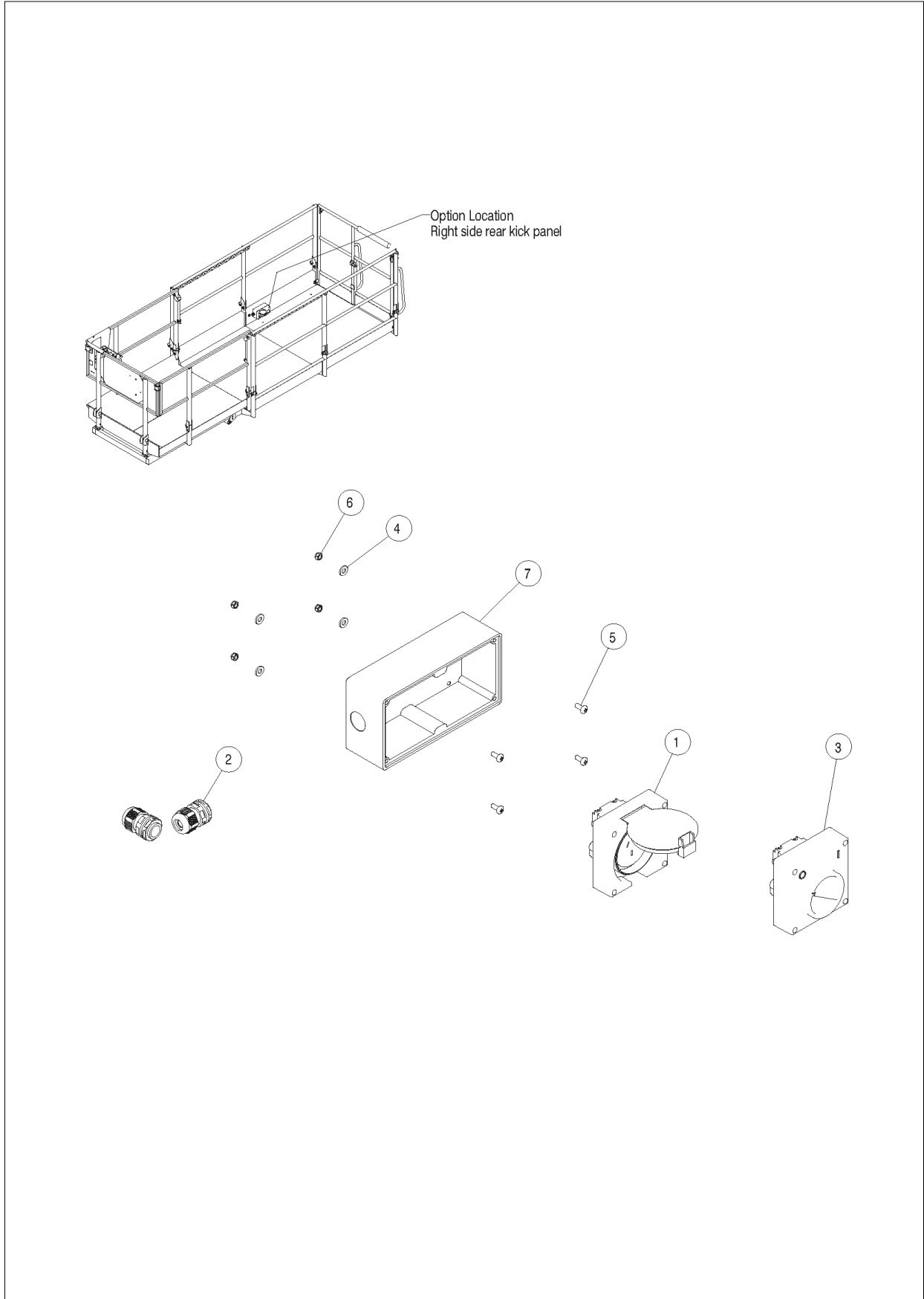
Item	Part No.	Name	Qty	Uom
30	3020016	SW TGL SPDT (M/OFF/M) HONEYWELL INT1-7	1	EA
31	3030181	PG TRONICS TBM 21 500 340	1	EA
32	3040411	ALARM MINI SIREN 6-28VDC MURPH	1	EA
33	3087803	EZcal DISPLAY	1	EA
34	09-1008	KEY FOR 512543-000 SWITCH	1	EA

Options



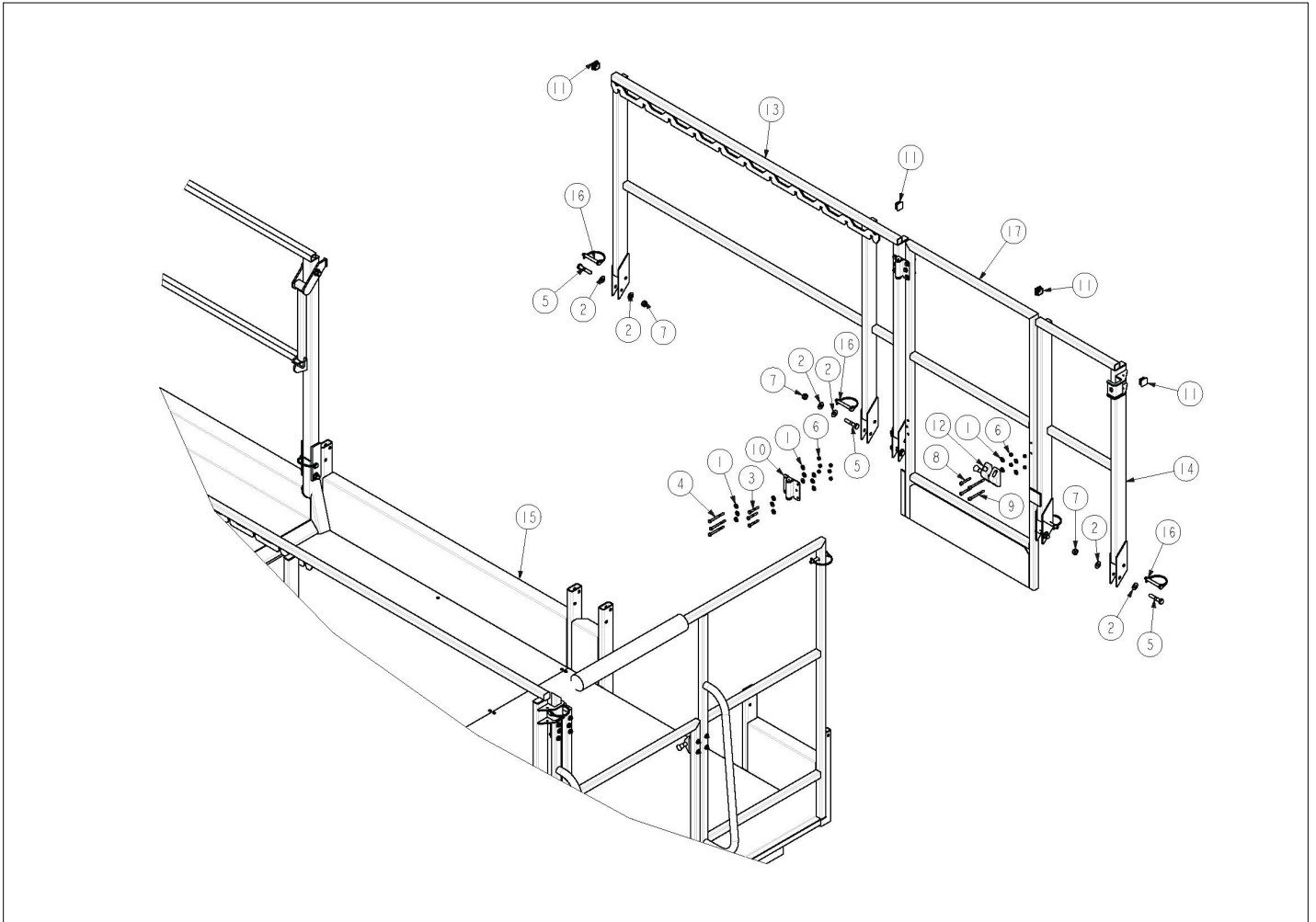
Item	Part No.	Name	Qty	Uom
1	1814	Cable Gland	1	EA
2	FLWM0510CZ	WASHER FLAT M5 10.9 C	4	EA
3	3604-05016	Pan Head Screw	4	EA
4	3611-05	Metric Nyloc Nut	4	EA
5	10967-1	Residual current device (with appliance inlet pins)	1	EA
6	10967-2	Appliance Inlet	1	EA
7	10967-3	PDL Enclosure	1	EA

Options



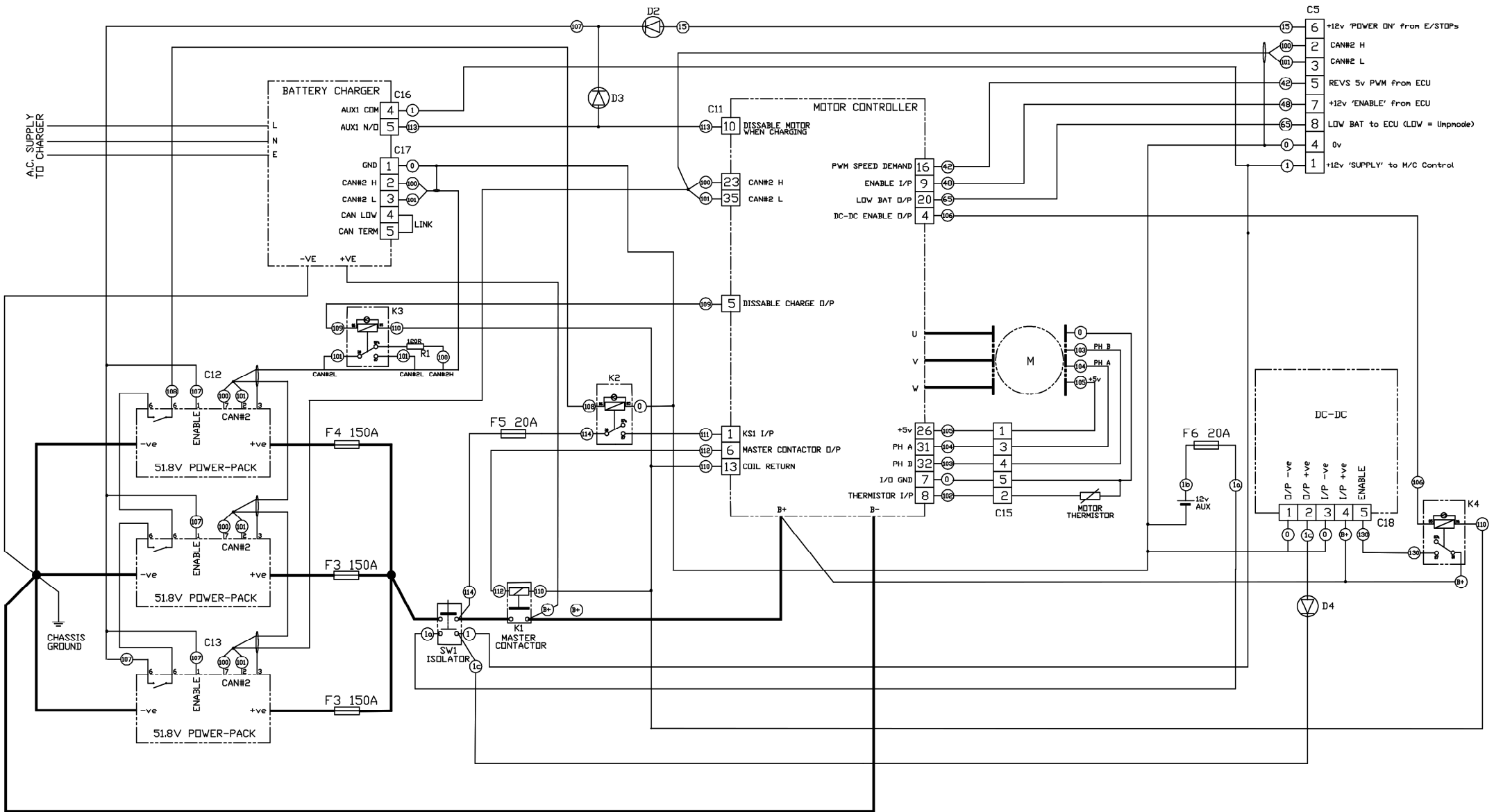
Item	Part No.	Name	Qty	Uom
1	1807	Appliance Outlet	1	EA
2	1814	Cable Gland	2	EA
3	1865-001	PDL Switch	1	EA
4	FLWM0510CZ	WASHER FLAT M5 10.9 C	4	EA
5	510593-012	Pan head screw, M5 x 12 mm	4	EA
6	3611-05	Metric Nyloc Nut	4	EA
7	10967-3	PDL Enclosure	1	EA

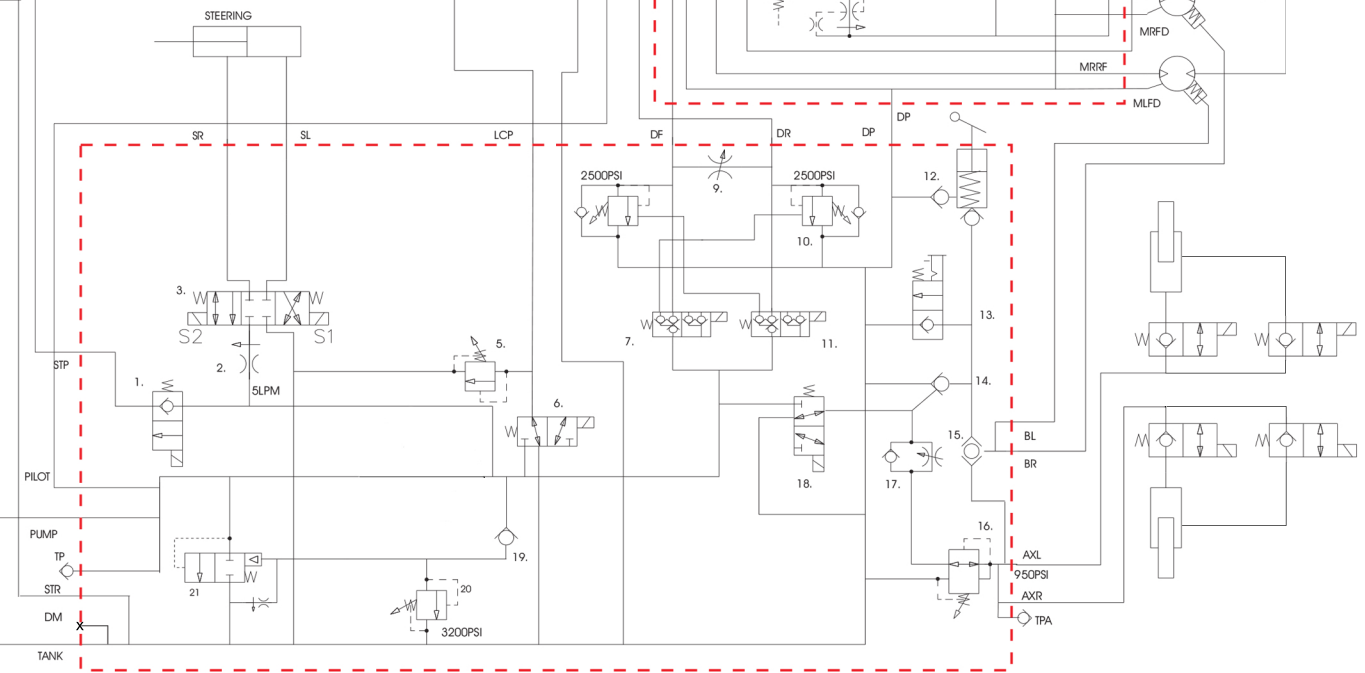
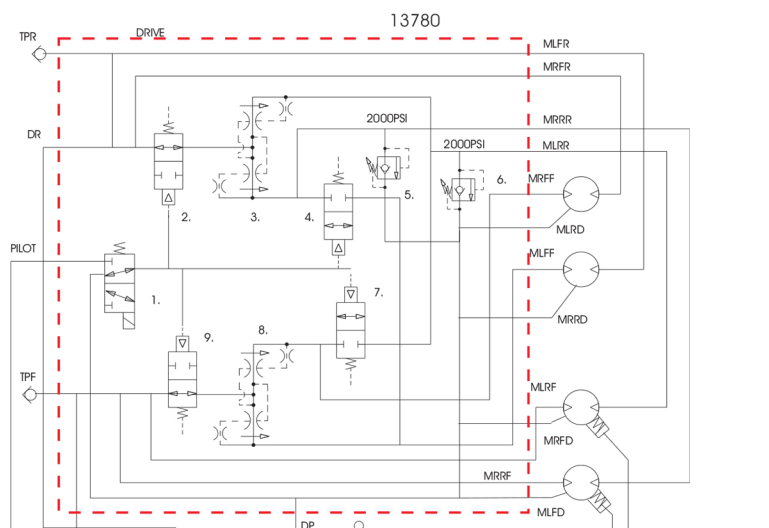
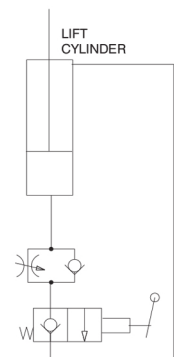
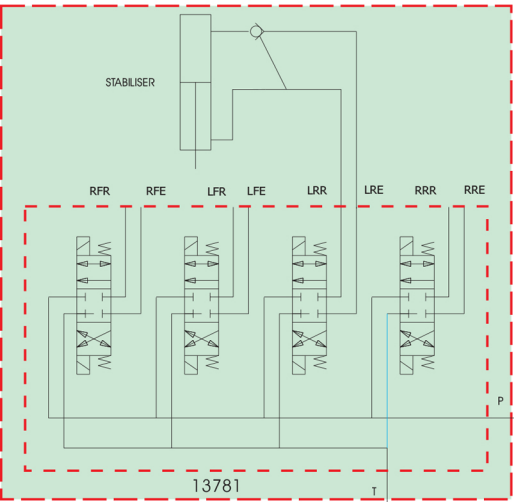
Options



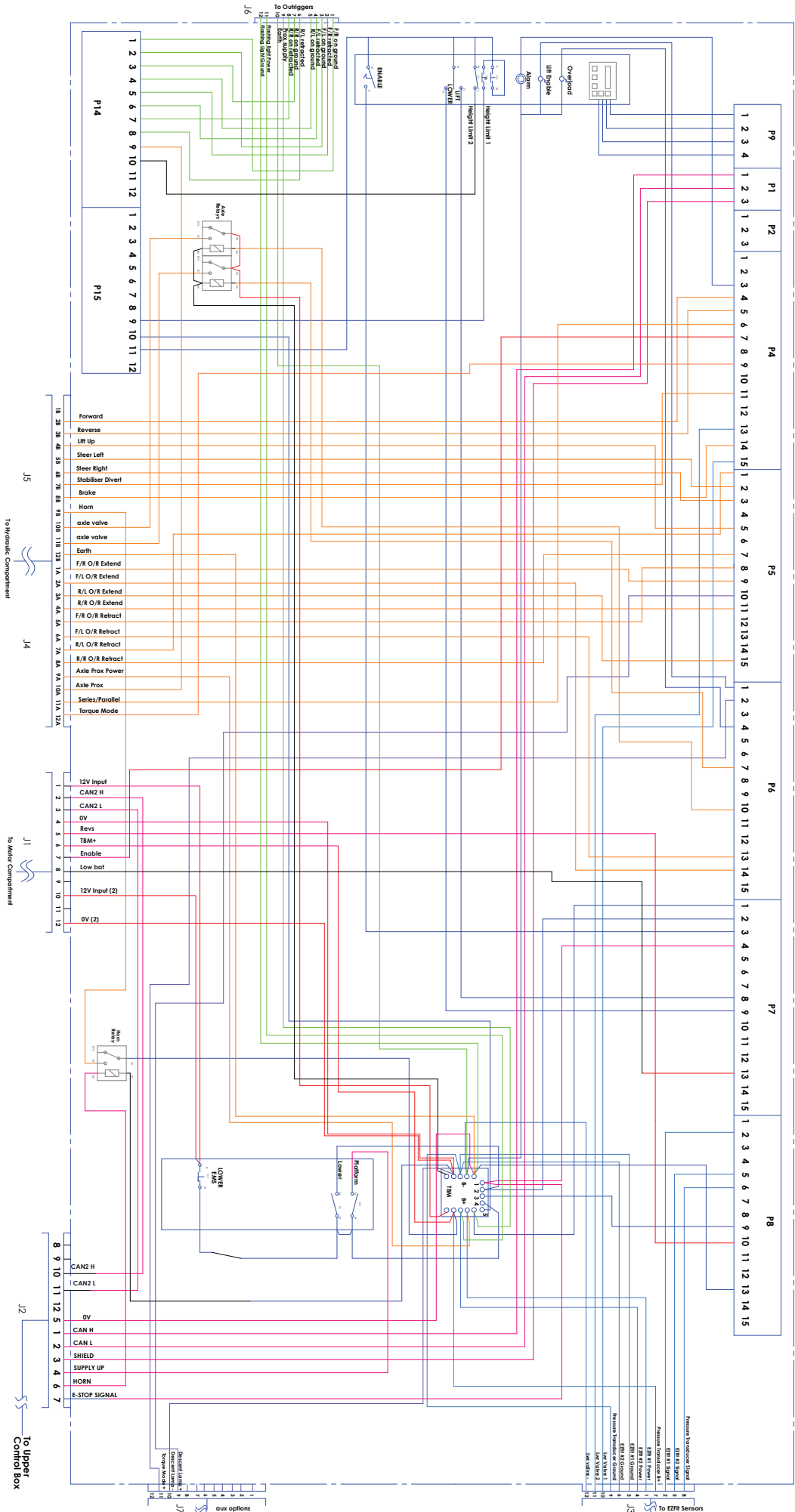
Item	Part No.	Name	Qty	Uom
1	3603-06	Plain Washer	48	EA
2	3603-10	Plain Washer	40	EA
3	3610-06040	Metric Bolt	6	EA
4	3610-06065	Metric Bolt	6	EA
5	056060-050	Bolt, HexBolt DIN931 M10 x 50m	8	EA
6	NL061010CZ	NUT HEX NL M6X1 10.9 C	30	EA
7	NL101510CZ	NUT HEX NL M10X1.5 10.9 C	20	EA
8	3613-06040	Socket Head Cap Screw	2	EA
9	3613-06065	Socket Head Cap Screw	2	EA
10	7495	Spring Hinge	2	EA
11	8926-1	Plug RHS 25mm	6	EA
12	13909	Latch, Magnetic Slam	1	EA
13	15033	Right Hand Rail	1	EA
14	15034	Right Hand Rail - Rear	1	EA
15	15466	Platform Weld With Side Gate	1	EA
16	302544	PIN SNAPPER W/ LNYD .375X2.25-	17	EA
17	15035RH	Handrail - Gate, Side RH	1	EA

MOTOR CONTROL CIRCUIT

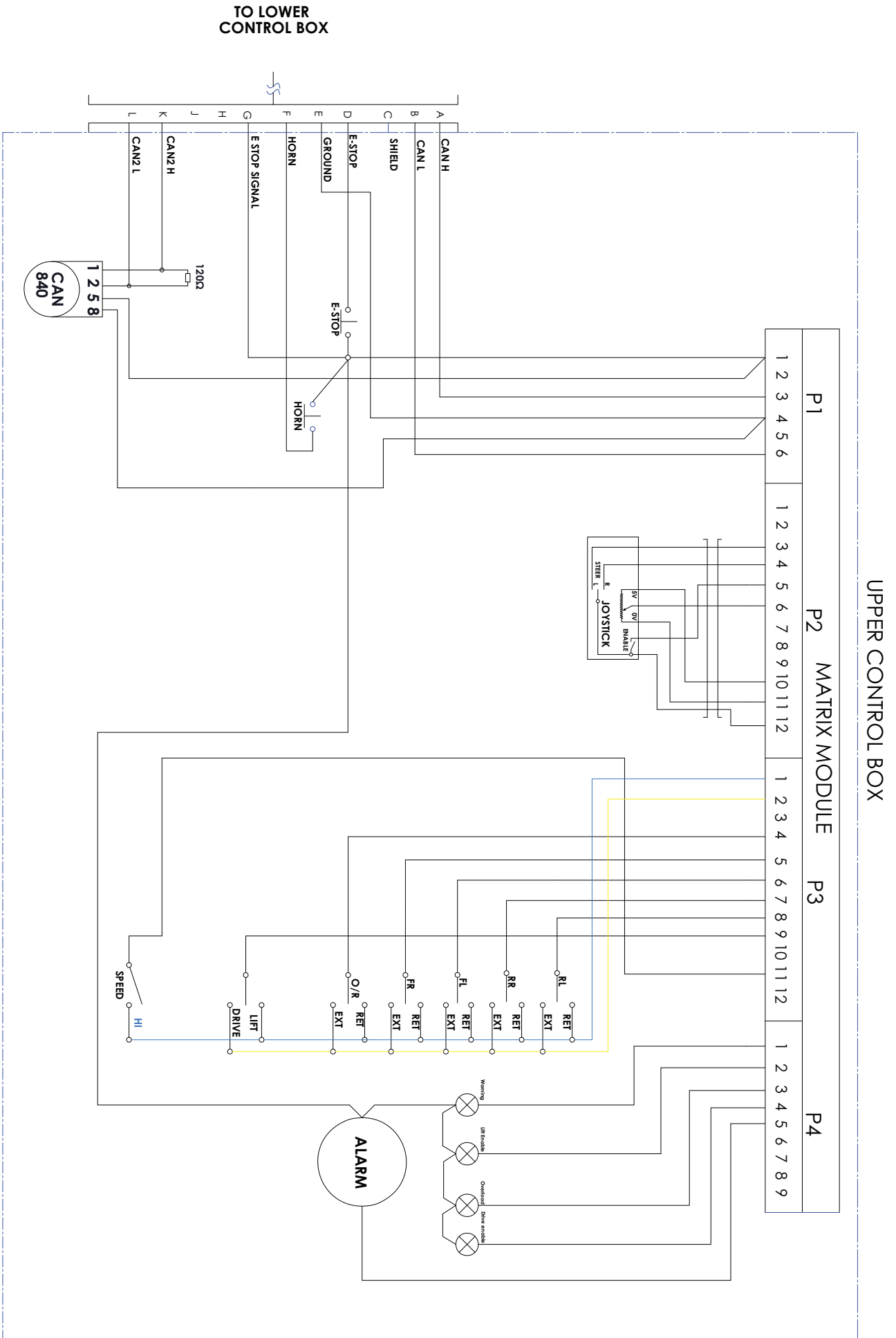




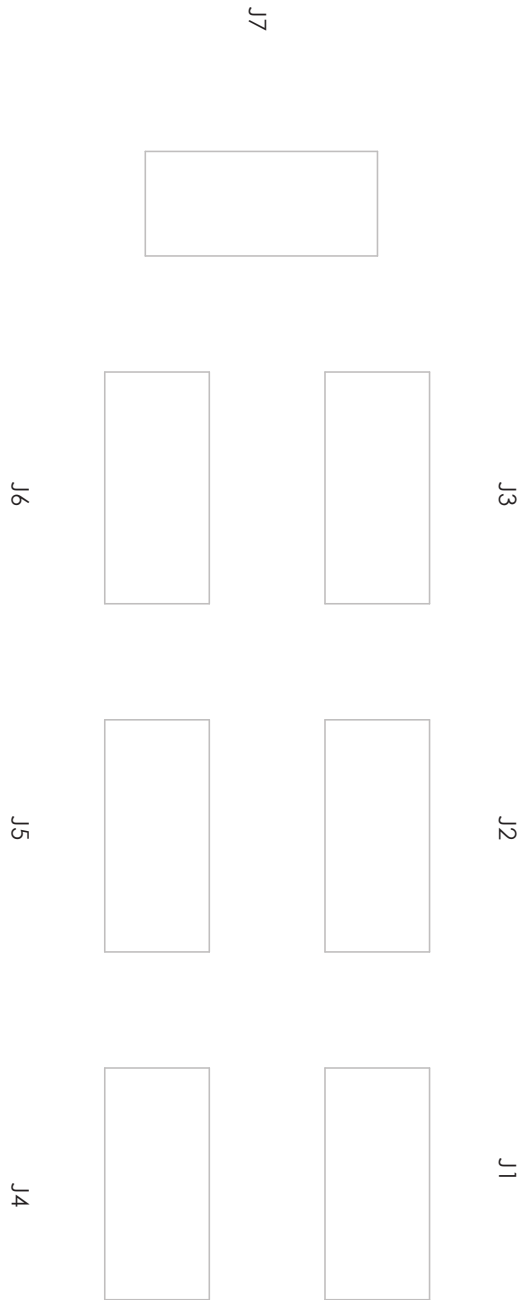
Lower Control Box Wiring



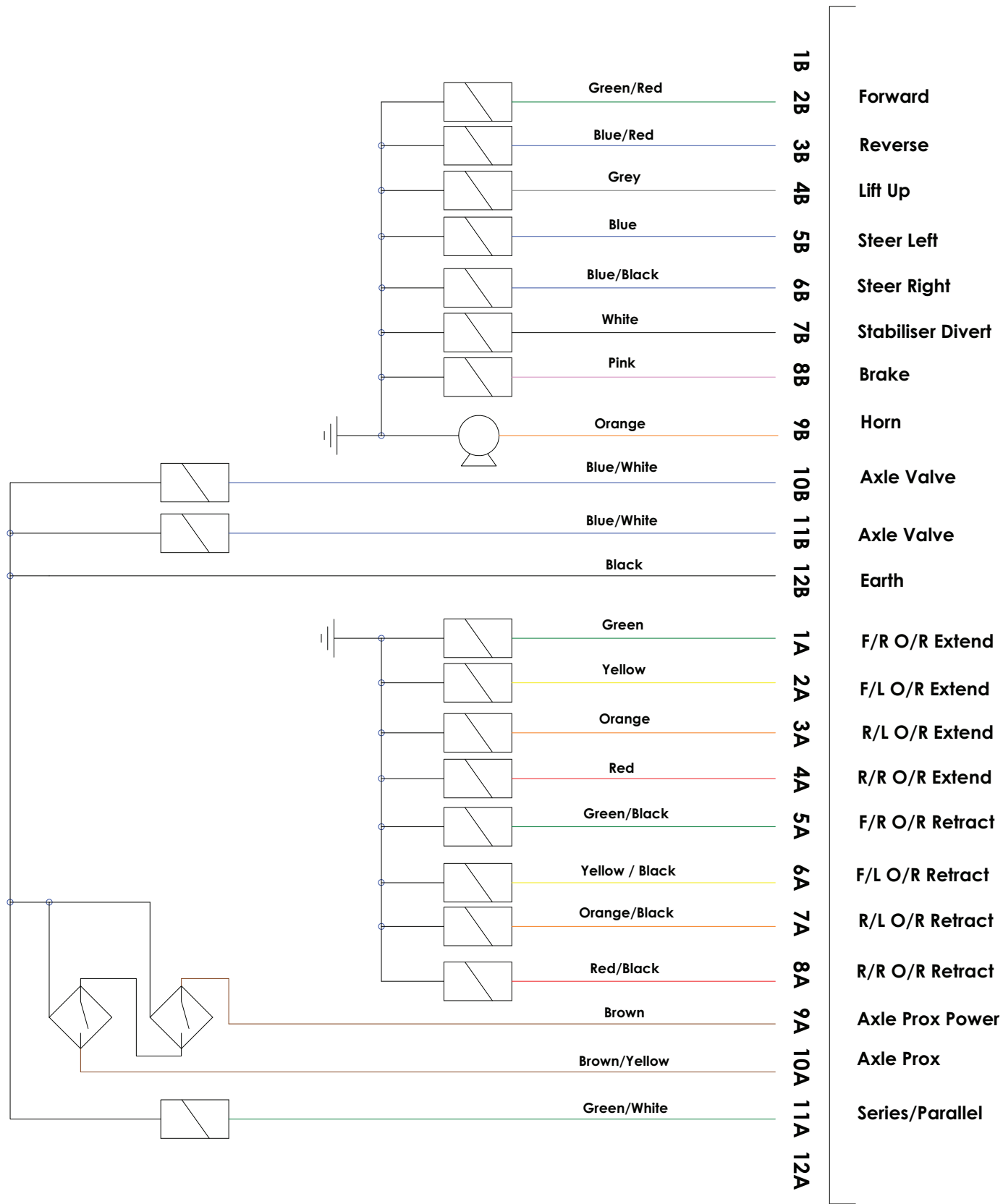
Upper Control Box Wiring



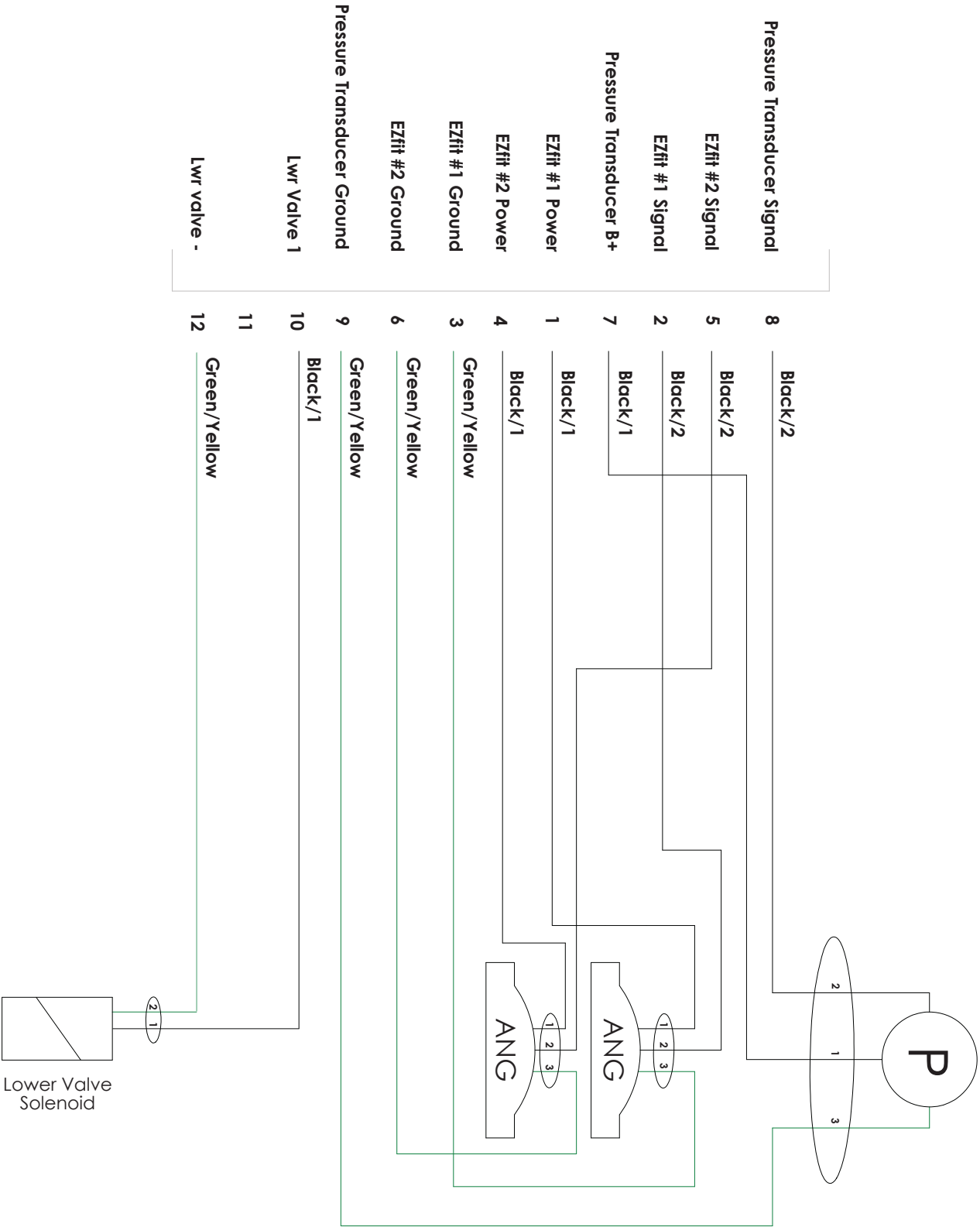
Top View of Lower Control Box



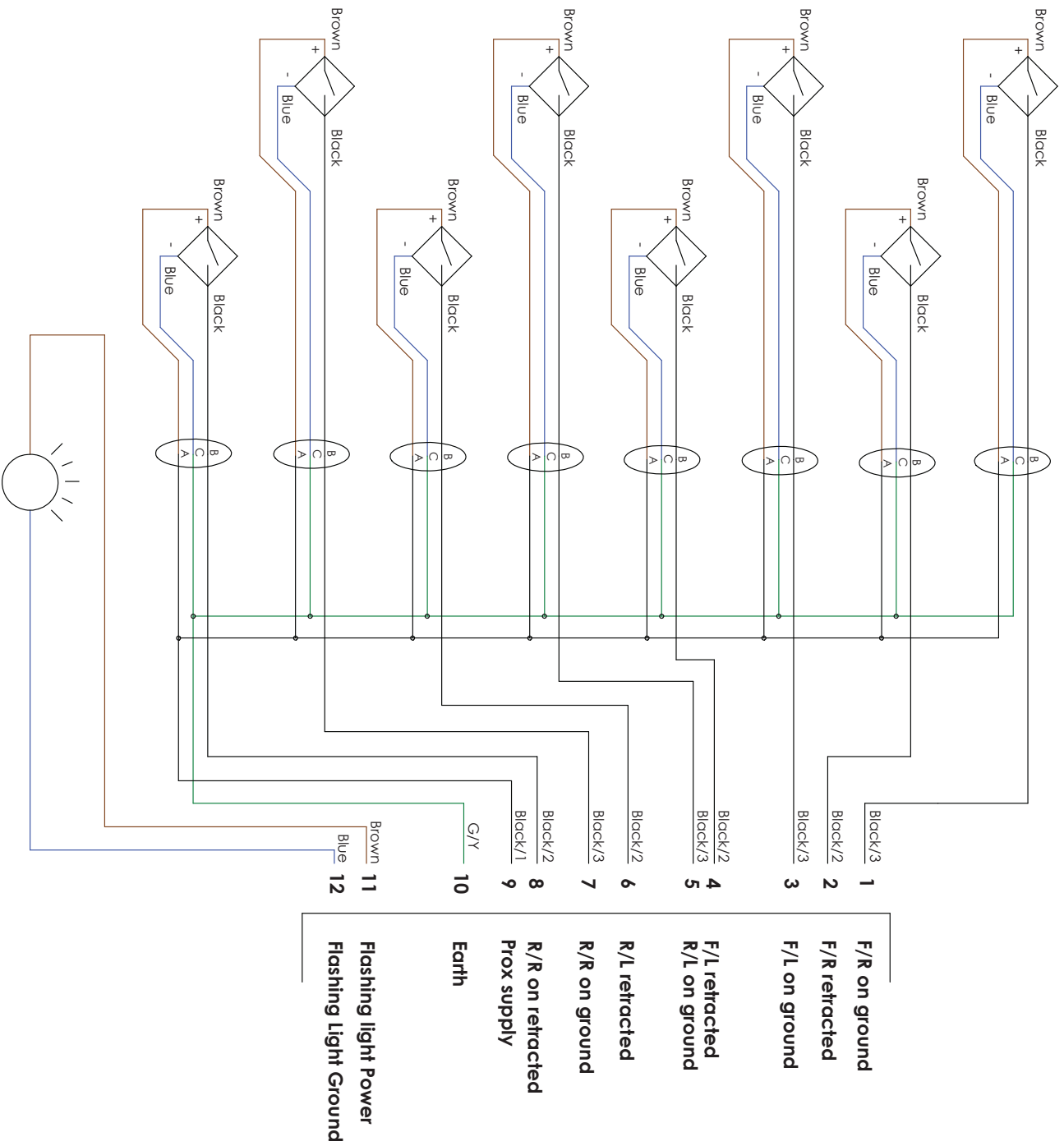
Hydraulic Compartment Wiring



EZFit Sensors Wiring



Stabiliser Legs Wiring



Appendix A:Pages Index	
240V At Base Assembly	5-1
240V At Platform Assembly	5-2
4WD Manifold, Added Fittings	3-6
4WD Manifold, No Added Fittings	3-5
Angle Transducer	2-22
Auto Stabiliser Manifold, Added Fittings	3-8
Auto Stabiliser Manifold, No Added Fittings	3-7
Axle Cylinder Assembly	3-10
Base, Stack & Platform Assembly	2-16
Bleed Down Cover Assembly	2-17
Bolt On Stabilisers Assembly	2-1
Cabinet Mounting Assembly	2-12
Control Box Mounting Assembly	2-8
Control Cabinet Assembly	2-6
GP400 & I/O Allocations	4-1
General Information	1-1
Hose Part Numbers And Colour Codes	3-1
Hydraulic Schematic	6-2
Lift Cylinder Assembly	3-11
Lower Control Box Assembly	4-3
Main Manifold, No Added Fittings After Serial Numbers	3-3
Main Manifold, No Added Fittings Before Serial Numbers	3-2
Main Manifold, With Added Fittings	3-4
Motor Cabinet Assembly	2-9
Motor Cabinet Charger Assembly	2-10
Motor Control Schematic	6-1
Placards And Decals	2-25
Plastic Hydraulic Oil Tank Assembly	2-23
Platform Assembly	2-18
Platform Rear Handrail Assembly	2-19
Power Cabinet Assembly	2-11
S2255RT Base Assembly	2-2
S2255RT Scissor Stack	2-20
S2755RT Base Assembly	2-3
S2755RT Scissor Stack	2-21
Serial Plate Mount Assembly	2-7
Side Gate Option	5-3
Stabiliser Cylinder Assembly - Imperial Cylinders	3-12
Stabiliser Leg Assembly - Metric Cylinders	3-13
Stabiliser Leg Assembly Before Serial Numbers	
S2255RT-07-230300325, S2755RT-07-230300434	2-13
Stabiliser Leg Assembly From Serial Number S2755RE-07-230100010	2-14
Steel Hydraulic Oil Tank Assembly	2-24
Steer Axle Assembly	2-4
Steer Cylinder Assembly	3-9
Swing Arm Assembly	2-5
Upper Control Box Assembly	4-2
Wheel Mounting Assembly	2-15
Wiring Schematics	6-3

Appendix B:Parts Index

0070901	2-6, 2-7, 2-25	100432-027	2-9
0073298	2-25	100433-008	3-4, 3-11
0083427	2-25	100434-002	2-5
0162366	2-25	100434-004	2-5, 3-11
032-3897	2-25	100434-014	2-4
0372061	2-25	100434-015	2-6
056021-006	2-8, 2-9, 2-13, 2-17, 2-22, 3-11, 3-12, 3-13	100434-021	2-9, 3-4
056021-008	2-2, 2-3, 2-9, 2-11	10114	4-3
056021-010	2-6, 2-9	10118	4-2, 4-3
056058-055	2-22	106574-103	3-2, 3-2, 3-3, 3-3
056060-050	2-18, 5-3	10967-1	5-1
056060-055	2-9	10967-2	2-10, 5-1
056065-100	2-5	10967-3	2-10, 5-1, 5-2
056067-006	2-6	10967-4	2-10
057052-130	2-18	10996-2	3-4
058491-012	3-11	11143-2	2-20, 2-21
058491-016	2-4, 2-6, 2-9, 2-10, 2-13, 2-14, 2-17, 3-12, 3-13	11305	2-13, 2-14, 3-13
058491-020	2-6, 2-8, 2-10, 2-11, 2-18	11366-1	2-13, 2-14
058491-025	2-6	11366-2	2-13, 2-14, 3-13
058492-020	2-2, 2-3, 2-6, 2-11, 2-12	11367-2	2-13, 2-14, 3-12, 3-13
058492-030	2-6, 2-9, 2-11	11369	2-13, 2-14, 3-13
058493-020	2-6, 2-16, 2-18, 2-20, 2-21	11380	2-20, 2-21
058493-030	2-13, 2-14, 3-13	11430-1	2-23, 2-24
058501-040	2-19	11430-5	2-23, 2-24
058508-025	2-6, 2-12, 2-20, 2-21	11487	2-23, 2-24
062642-020	2-20, 2-21	11492-1	2-4
09-1008	4-3	11492-3	2-16, 2-18, 2-20, 2-21
100432-002	2-13, 2-14, 3-4, 3-8, 3-9, 3-13	11492-4	2-13, 2-14, 3-12, 3-13
100432-004	3-4, 3-6	11590	2-4
100432-007	3-12	11595-9	2-4
100432-009	3-4, 3-6, 3-8	11600	2-5
		11601	2-4
		11629	2-4, 2-5
		11658-20	2-16

11679	2-6, 2-9	12569-5	3-5
11680	2-6, 2-9	12569-6	3-5
11695	2-18	12574	2-25
11695-3	2-18	12647-1	3-11
11695R	2-18	12648	3-11
11699	2-4, 3-9	12699-1	2-25
11699K	3-9	12699-8	2-25
11699K-PB	3-9	12709-10	2-18
11699K-UH	3-9	12753	2-25
11804	2-20, 2-21	12814	2-25
12036	2-13, 2-14, 3-12	12818	2-17
12036-5	2-13, 2-14, 3-12, 3-13	12833-4	2-6, 2-7, 2-25
12036-6	2-13, 2-14, 3-12, 3-13	12835-1	2-5, 3-10
12286-3L	2-15	12914-10	4-2, 4-3
12286-3R	2-15	12914-11	4-2
12286-4L	2-15	12914-12	4-3
12286-4R	2-15	12914-13	4-3
12296	2-5	12914-6	4-3
12303	2-4	12942	2-23
12313-10	2-6, 2-9	13032	2-11
12313-11	2-6	13106-5	2-23
12329	2-9	13106-5A	2-23
12536-3	4-2, 4-3	13106-6A	2-9
12536-4	4-2, 4-3	13108-04	2-23, 2-24
12566-2	2-16	13111	2-25
12566-3	2-16	13122-11	2-18
12567-1	3-2, 3-3	13122-12	2-18
12567-19	3-2, 3-3	13122-14	2-18
12567-23	3-2, 3-3	13128	2-18
12567-24	3-2, 3-3	13155	2-18
12568-1	3-2, 3-3, 3-7	13161-17	3-2, 3-3
12569-1	3-2, 3-3, 3-5	13161-18	3-2, 3-3
12569-2	3-5	13161-28	3-2, 3-3
12569-3	3-5	13164	2-6

13262	2-18	13841	2-18
13264	2-18	13852-12	4-3
13268	2-18	13862	4-2
13485-05	4-3	13869-01	2-6, 2-9
13520-000	2-24	13869-02	2-6, 2-9, 2-11
13574-16	2-20, 2-21	13871	2-18
13628	2-9	13872	2-6, 2-9, 2-11
13640-3	2-25	13878-02	4-3
13667-1	2-20, 2-21	13881-08	3-2, 3-3, 3-7
13667-15	2-20, 2-21, 2-21	13893-04	2-16
13667-2	2-20, 2-21	13893-05	2-16
13667-32	2-20, 2-21	13903-24	2-25
13667-33	2-20, 2-21	13903-25	2-25
13667-35	2-21	13906-03	2-20, 2-21
13667-36	2-20, 2-21	13909	2-19, 5-3
13771-50	2-13, 2-14, 3-13	13921	2-18
13779-01	3-2, 3-3	13926-1008	4-3
13779-02	3-2, 3-3	13928	2-16
13779-03	3-2	13931	2-16
13779-04	3-4	13952	3-11
13779-06	3-3	13969	2-6
13780	3-5, 3-6	14022	4-2
13781	3-8	14022-01	4-2
13781-01	3-7	14022-03	4-2
13781A	2-6, 3-8	14023-10	2-18
13808-02	4-2	14055	2-18
13810	4-3	14056	2-18
13810-5	4-3	14057	2-18, 2-19
13811-06	2-8	14058	2-19
13811-1	4-3	14098-01-4	2-13, 2-14, 3-12, 3-13
13838-01	2-25	14098-02	2-13, 2-14, 3-12, 3-13
13838-10	4-2	14098-03	2-13, 2-14, 3-13
13839-01	2-25	15013-063	3-11
13839-03	4-3	15033	5-3

15034	5-3	15381	3-2, 3-3
15035RH	5-3	15430	3-13
15056	2-23	15431	3-13
15078	2-25	15450	2-1
15085-03	2-2, 2-3, 2-13, 2-14, 3-12, 3-13	15451-04	2-1
15088-01	2-6	15451-05	2-1
15089	2-2, 2-3, 3-6	15453	2-1
15096	2-18	15454	2-1
15132-01	2-20	15466	5-3
15132-02	2-21	1807	5-2
15146	2-24	1814	2-10, 5-1, 5-2
15157	2-2	1843	2-25
15158	2-18	1865-001	5-2
15164-01	2-18	2065-002	4-3
15165-01	2-16	300699	2-25
15202	2-16, 2-18	300700	2-25
15204	2-5, 3-10	300840	2-11
15208	2-3	301440	2-9
15243	2-19	3020015	4-2, 4-3
15256	2-24	3020016	4-2, 4-3
15279	2-11	3020047	4-2
15354	2-24	302544	2-18, 2-19, 5-3
15361	2-6, 2-9	3028933	4-2
15361-03	2-6, 2-9	302950	2-25
15368	2-9, 2-10	3030158	3-11
15370	2-12	3030181	4-3
15370-01	2-11	3030187	2-22
15371	2-11	3040411	4-2, 4-3
15371-4	2-11	3049861	4-2
15372	2-12	3049862	4-2
15372-01	2-10	3087803	4-3
15372-02	2-10	329926	4-2
15378	2-11	3603-06	2-6, 2-8, 2-9, 2-10, 2-11, 2-13, 2-14, 2-17, 2-18, 2-19, 2-21, 2-22, 2-23, 2-24, 3-11, 3-12, 3-13, 5-3
15380	2-12		

3603-07	4-3	3618-11	2-23
3603-10	2-6, 2-9, 2-12, 2-18, 2-20, 2-21, 5-3	3618-26	2-23
3603-10H	2-9	3618-32	2-9
3603-12H	2-5	3619-5	2-20, 2-21
3603-12HD	2-4, 2-5	3624-19	2-16
3604-04012	4-3	3624-2	2-20, 2-21
3604-04025	4-3	3624-27	2-4, 3-9
3604-05016	4-2, 5-1	3624-40	3-11
3604-05025	4-2	3626-1	2-4
3605-05	4-2	3626-19	3-11
3605-06	2-14, 2-19	3626-2	2-5, 2-18
3606-05025	2-11	3626-3	2-5, 3-10
3606-06	2-20	3626-8	2-13, 2-14, 3-12, 3-13
3606-06020	2-18	3628-05	4-3
3610-05016	2-11, 2-18, 4-2	3628-08	2-11
3610-05020	2-6, 2-9	3629-5062L	2-20, 2-21
3610-06040	2-19, 5-3	3631-1	2-15
3610-06065	5-3	3633-3	2-13, 2-14, 3-13
3610-06085	3-11	3636-1	2-4, 2-5
3610-06110	2-13, 2-14, 3-13	3641-06	3-11
3610-08016	2-9	3668-05016	2-6, 2-9
3610-08045	2-18	4381	2-6
3610-10035	3-12	446086	2-11
3610-10045	2-9	45198-6	2-25
3610-10120	2-20, 2-21	501453-000	2-25
3610-12035	2-1	505050-006	2-13, 3-13, 4-3
3611-05	2-6, 2-9, 2-10, 2-11, 2-18, 2-19, 4-2, 5-1, 5-2	510567-016	2-16
3611-16	2-5	510567-025	2-18, 2-20, 2-21
3613-06030	2-10	510588-004	4-3
3613-06040	5-3	510588-005	2-18
3613-06065	5-3	510588-008	2-2, 2-3, 2-6, 2-9, 2-11, 2-12, 2-18
3616-12060	2-4	510590-016	2-5
3616-12120	2-5	510593-012	2-10, 4-3, 5-2
		511067-000	2-25

511099-000	2-25	5560179	2-9, 2-18
511101-000	2-25	562326	4-3
511327-000	2-5	562386	2-18
512968-000	2-9	562426	2-25
512969-000	2-9	583656	2-25
512970-000	3-4, 3-6, 3-8	60015-012	2-9
514345-000	4-3	60017-006	2-6
515611-000	2-2, 2-3	60017-010	2-9
515612-000	4-2	60027-013	2-6, 2-7
515956-000	2-11	60027-067N	2-18, 2-19
515957-000	2-10	60030-198	2-18
515958-000	2-10	6010292	3-2, 3-3
515959-000	2-9	6010737	3-2, 3-3
516042-000	4-2	6018024	3-11
516050-000	2-11	6019033	3-2, 3-3
516057-000	2-11	6019180	2-5, 3-2, 3-3, 3-5, 3-7, 3-10
516065-000	2-11	6019184	3-2, 3-3, 3-11
516067-000	2-11	6019325	2-6
516094-000	2-11	601955	3-2, 3-3
516095-000	2-11	605246	2-23
516112-000	2-11	605256	2-23
516147-000	2-11	621486	2-25
516148-000	2-11	7035-001	3-6
516149-000	2-11	7035-002	3-4
516163-000	2-11	7495	2-19, 5-3
516203-000	2-11	8342416-3	2-6, 2-9, 2-11
516204-000	2-9	8626-4	2-16, 2-18, 2-20, 2-21
516213-000	2-25	8628-4	2-4
516213-001	2-25	8926-1	2-18, 2-19, 5-3
516231-000	2-25	9292	2-20, 2-21
516253-000	2-25	9311	2-4
516289-000	2-11	9319	2-4
516292-000	2-11	969249	2-25, 2-25
516628-000	2-25	98300-9	2-15

FLWM0510CZ 2-10, 2-11, 4-2, 4-3, 5-1, 5-2
FLWM1210CZ 2-1, 2-4, 2-5, 2-18
Grommet 60mm 2-9
HH0812F10CZ025 2-6, 2-9, 2-11
HH1015P10CZ075 2-18
HH1217F10CZ050 2-1, 2-4, 2-5
NL040710CZ 4-3
NL061010CZ 2-6, 2-9, 2-10, 2-11, 2-13, 2-14, 2-
18, 2-19, 2-20, 2-21, 2-23, 2-24, 3-11, 3-13, 5-3
NL081210CZ 2-6, 2-9, 2-11, 2-12, 2-18
NL101510CZ 2-6, 2-9, 2-12, 2-18, 2-20, 2-21, 5-
3
NL121710CZ 2-1, 2-4, 2-5, 2-18