

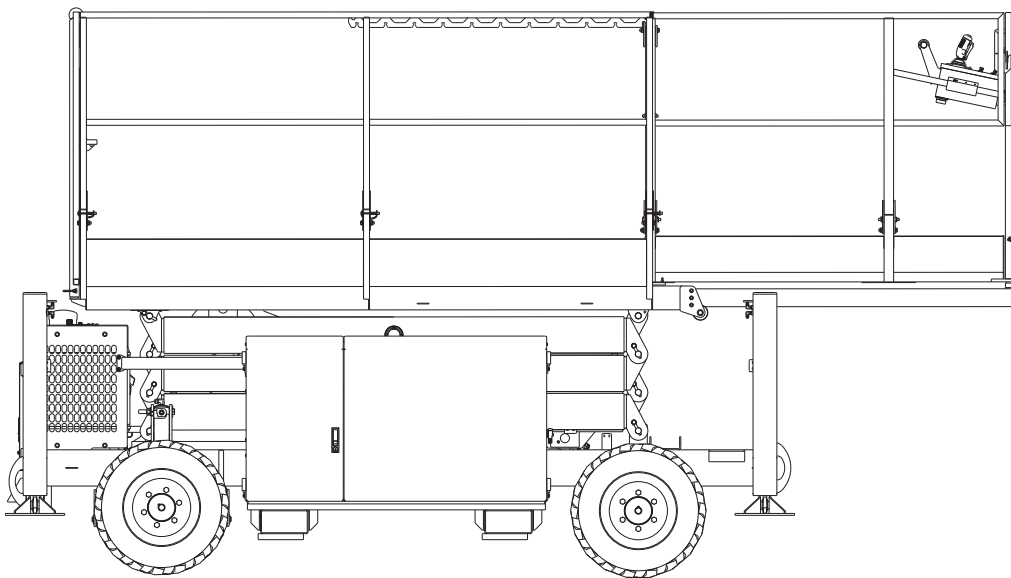


S2755BE

S2255BE

S2755RT

S2255RT



Diesel
Bi-Energy 24V DC

REPAIR PARTS MANUAL

Serial Numbers:
S2255RT-07-000100
S2755RT-07-000100 and after

Part Number 14047-2

March 2018 (Rev B)

Version V

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■ General Specifications S2255RT

SPECIFICATIONS		S2255RT		S2255BE	
Nominal working height	Wheels	8.1m	26' 7"	8.1m	26' 7"
	Stabilisers	8.5m	27' 11 "	8.5m	27' 11 "
Platform floor height	Wheels	6.1m	20'	6.1m	20'
	Stabilisers	6.5m	21' 4"	6.5m	21' 4"
Roll out deck size		1.2m	47"	1.2m	47"
Drive speed	Below 2.4m	0 to 5.2kp/h	0 to 3.3mph	0 to 5.2kp/h	0 to 3.3mph
	Above 2.4m	0 to 0.64kp/h	0 to 0.4mph	0 to 0.64kp/h	0 to 0.4mph
Safe working load (Roll out deck NOT extended)	Main deck	420kg	925lb	420kg	925lb
Safe working load (Roll out deck extended)	Main deck	300kg	661lb	300kg	661lb
	Roll out deck	120kg	265lb	120kg	265lb
Platform size		2.73 x 1.4m	8' 11" x 4' 7"	2.73 x 1.4m	
Stowed height	Hand rails up	2.35m	7' 8"	2.35m	7' 8"
	Hand rails folded down	1.55m	5' 1"	1.55m	5' 1"
Overall length		3.3m	11' 0"	3.3m	11' 0"
Overall width		1.45m	4' 9"	1.45m	4' 9"
Gradeability		35%		35%	
Lift time		24 - 29 seconds		24 - 29 seconds	
Lower time		40 - 42 seconds		40 - 42 seconds	
Turning radius	Inner	2.5m	8.2'	2.5m	8.2'
	Outer	4.75m	15.6'	4.75m	15.6'
Maximum wind speed	12.5m/s	45km/h	28mph	45km/h	28mph
Insulation rating		Nil		Nil	
Tyres	Poly filled loader lug	23" x 8.9" x 12"		23" x 8.9" x 12"	
Overall weight		2360kg	5202lb	2750kg	6063lb
Ground clearance	Minimum	170mm	7"	170mm	7"
	Mid cabinet	260mm	10.2"	260mm	10.2"
Maximum sound level at platform		86db		86db	
Maximum outrigger load		1420kg	3130lb	1625kg	3584lb
Maximum wheel load		1420kg	3130lb	1625kg	3584lb
Maximum chassis inclination		2/4 degrees		2/4 degrees	
Maximum manual force		400N		400N	

General Specifications

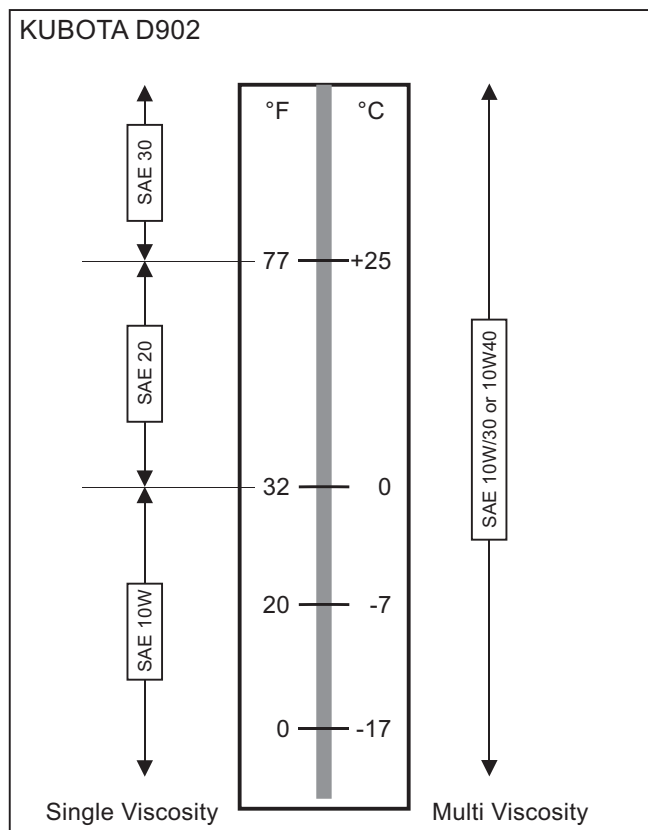
■ General Specifications S2755RT

SPECIFICATIONS		S2755RT		S2755BE	
Nominal working height	Wheels	9.9m	32' 6"	9.9m	32' 6"
	Stabilisers	10.4m	34' 1"	10.4m	34' 1"
Platform floor height	Wheels	7.9m	25' 11"	7.9m	25' 11"
	Stabilisers	8.4m	27' 7"	8.4m	27' 7"
Roll out deck size		1200mm	47"	1200mm	47"
Drive speed	Below 2.4m	0 to 7kph	0 to 4.3mph	0 to 7kph	0 to 4.3mph
	Above 2.4m	0 to 0.8kph	0 to 0.5mph	0 to 0.8kph	0 to 0.5mph
Safe working load (Roll out deck NOT extended)	Main deck	340kg	750lbs	340kg	750lbs
Safe working load (Roll out deck extended)	Main deck	220kg	485lbs	220kg	485lbs
	Roll out deck	120kg	264lbs	120kg	264lbs
Platform size		2.73 x 1.4m	8' 11" x 4' 7"	2.73 x 1.4m	8' 11" x 4' 7"
Stowed height	Hand rails up	2.5m	8' 3"	2.5m	8' 3"
	Hand rails folded down	1.75m	5' 8"	1.75m	5' 8"
Overall length		3.3m	11' 0"	3.3m	11' 0"
Overall width		1.45m	4' 9"	1.45m	4' 9"
Gradeability		35%		35%	
Lift time		24 - 29 seconds		24 - 29 seconds	
Lower time		40 - 42 seconds		40 - 42 seconds	
Turning radius	Inner	2.5m	8.2'	2.5m	8.2'
	Outer	4.75m	15.6'	4.75m	15.6'
Power source		Diesel engine		Diesel engine	
Maximum wind speed	12.5m/s	45km/h	28mph	45km/h	28mph
Insulation rating		Nil		Nil	
Tyres	Poly filled loader lug	23" x 8.9" x 12"		23" x 8.9" x 12"	
Overall weight		2520kg	5555.5lbs	2950kg	6490lb
Ground clearance	Minimum	170mm	7"	170mm	7"
	Mid cabinet	260mm	10.2"	260mm	10.2"
Maximum sound level at platform		86db		86db	
Maximum outrigger load		1470kg	3240lbs	1665kg	3663lb
Maximum wheel load		1470kg	3240lbs	1665kg	3663lb
Maximum chassis inclination		2/4 degrees		2/4 degrees	
Maximum manual force		200N Outdoors, 400N Indoors		200N Outdoors, 400N Indoors	

■ Engine Data

Model	KUBOTA (diesel)
Model	D902
Fuel	Diesel
Fuel Grade	ASTM Grade 2-D S5000 Tier 4 Compliance: Low Sulpher ASTM Grade 2-D S500 centane no. >44 (For operating temperature below 32°F (0°C) use "winterised" no. 2-D)
Coolant	50% water + 50% ethylene glycol
Maximum Temperature	110°C
Oil capacity	3.7 L
Oil Grade	API: Quality better than CD
Oil Weight	See chart below

■ Engine Oil Charts



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 S2255RT & S2755RT.

□ 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
Fuel level	Visually inspect
Fuel filter (diesel engines only)	Visually inspect (condition)
Fuel leaks	Visually inspect (hoses, connections, etc)
Engine Oil	Check oil level (between dipstick lines)
Engine coolant	Check fluid level and radiator hoses
Radiator cap	Visually inspect (installation)
Air Filter	Check condition (gauge)
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 ENGINE 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 ENGINE 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
Engine RPM	Check for proper RPM	Low = 1750rpm High = 3000rpm
Engine oil and oil filter	Replace per engine manufacturer's interval	See engine manufacturer's owners manual
Engine fuel filter	Check condition	Replace every 6 months or 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	

Preventive Inspection Maintenance
90 Day or 150 Hour Checklist and Pre Delivery Inspection Sheet

36 Bruce Road, Levin, 5510
 New Zealand
 Ph: +64 (0)6 368-9168, Fax: +(0)6 368-9164
 Email: sales.nz@snorkellifts.com

Preventative Inspection
Maintenance
90 Day or 150 Hour Checklist

S2255RT, S2755RT,

<input type="checkbox"/> OK	OK No Service Required	Model: _____
<input checked="" type="checkbox"/> X	Corrective Action Required	Serial Number: _____
<input checked="" type="checkbox"/> ✓	Corrected, (Record description of corrective action)	Date: _____

Inspection Procedures Codes	
(1) Weld cracks, dents and/or rust	(2) Installation
(3) Leaks	(4) Operation
(5) Condition	(6) Tightness
(7) Residue buildup	(8) See placards and decals inspection chart

CHECK	OK	X	✓
BASEFRAME			
Structural (1)			
Steering cylinders (2,3,4,6)			
Steering cylinder fasteners and linkage (2,4)			
Tyres and wheels (5)			
Articulating axles (2,4,5)			
Tray side covers (2,5,6)			
Torque drive wheel lug nuts 90-100 ft lbs (2,6)			
Torque steer wheel lug nuts 90-100 ft lbs (2,6)			
Right drive motor(s) (3,6)			
Left drive motor(s) (3,6)			
Guides, rollers and slides (2,4,5)			
Parking brake & Free wheeling valve (3,4)			
Emergency lowering valve (3,4)			
Battery disconnect switch (4)			
Lubrication points			
Cords and wire assemblies (2,5,6)			
Hydraulic tubes and hoses (3,5)			
Decals and placards (2,8)			
Flashing light (2,4)			
Right front outrigger (2,3,4)			
Left front outrigger (2,3,4)			
Right rear outrigger (2,3,4)			
Left rear outrigger (2,3,4)			
SCISSOR ARM ASSEMBLY			
Structural (1)			
Scissor arm pivot pins (2,5)			
Lift cylinders and valves (2,3,4)			
Safety bar (2,4,5)			
Hydraulic tubes and hoses (3,5)			
Wires and electrical cables (2,5)			
Decals and placards (2,8)			
BASE CONTROL STATION			
Key switch (4)			
Toggle switch, platform UP - DOWN (4)			
Start switch (4)			
Toggle switch, glow plug (4)			
Fuel select switch (4)			
Emergency stop switch (4)			
Hour meter (4)			
Lowering alarm (4)			
Engine not running alarm (4)			
Low oil pressure alarm (4)			

CHECK	OK	X	✓
High temperature alarm (4)			
Lift enable light (4)			
PLATFORM			
Structural (1)			
Guardrails properly installed and fastened (2,5)			
Platform entrance gate (2,5)			
Wires and electrical cables (2,5)			
Decals and placards (2,8)			
Correct operators manual in document holder			
Roll out platform deck extension (2,4,5,8)			
PLATFORM CONTROLS			
Joystick control - DRIVE/STEER and PROPORTIONAL LIFT (4)			
Toggle type selector switch - HIGH SPEED/HIGH TORQUE (4)			
Toggle type selector switch - LIFT/DRIVE (4)			
Engine warning light (4)			
Drive enable light (4)			
Lift enable light (4)			
Engine start (4)			
Emergency stop button (4)			
Joystick interlock switch (4)			
Horn (4)			
INTERLOCK TESTS			
Load sense system (4)			
Platform elevated (6-8%~2m) OUTRIGGER CONTROLS DO NOT WORK (4)			
Axle switch open PLATFORM DOES NOT RAISE (4)			
Tilted PLATFORM DOES NOT RAISE (4)			
Each outrigger not stowed DRIVEDOES NOT WORK (4)			
Selector switch base/platform controls BASE CONTROLS SELECTED PLATFORM CONTROLS DO NOT WORK (4)			
Selector switch base/platform controls PLATFORM CONTROLS SELECTED BASE CONTROLS DO NOT WORK (4)			
Drive speed - platform elevated (6-8%~2m) SLOW DRIVE SPEED ONLY (4)			
Drive speed - platform lowered DRIVES FAST or SLOW (4)			

■ 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.

□ Engines

Other than daily Operator's maintenance outlined in the Daily Inspection and Maintenance schedule, all other engine maintenance information is found in the manufacturer's instruction manual.

Refer to the engine manufacturer's instruction manual or consult your local engine service representative if engine adjustments or repairs are needed.

▲ CAUTION

The engine MUST be operated in accordance with manufacturer's instructions and serviced at recommended intervals.

Failure to do so could result in the loss of your engine warranty and repair of any failure resulting from improper maintenance could be at your own expense.

□ 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 S2255RT - S2755RT are as follows:

- ✓ Operator's Manual
Snorkel part number - 14047-1
- ✓ Repair Parts Manual
Snorkel part number - 14047-2

■ 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*

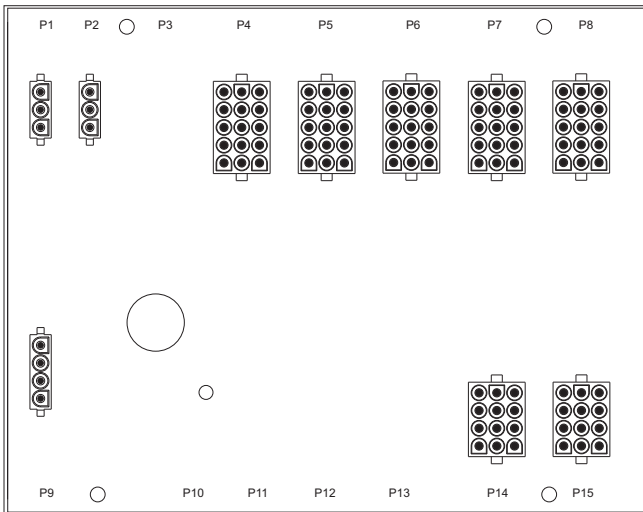
Date of purchase

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.

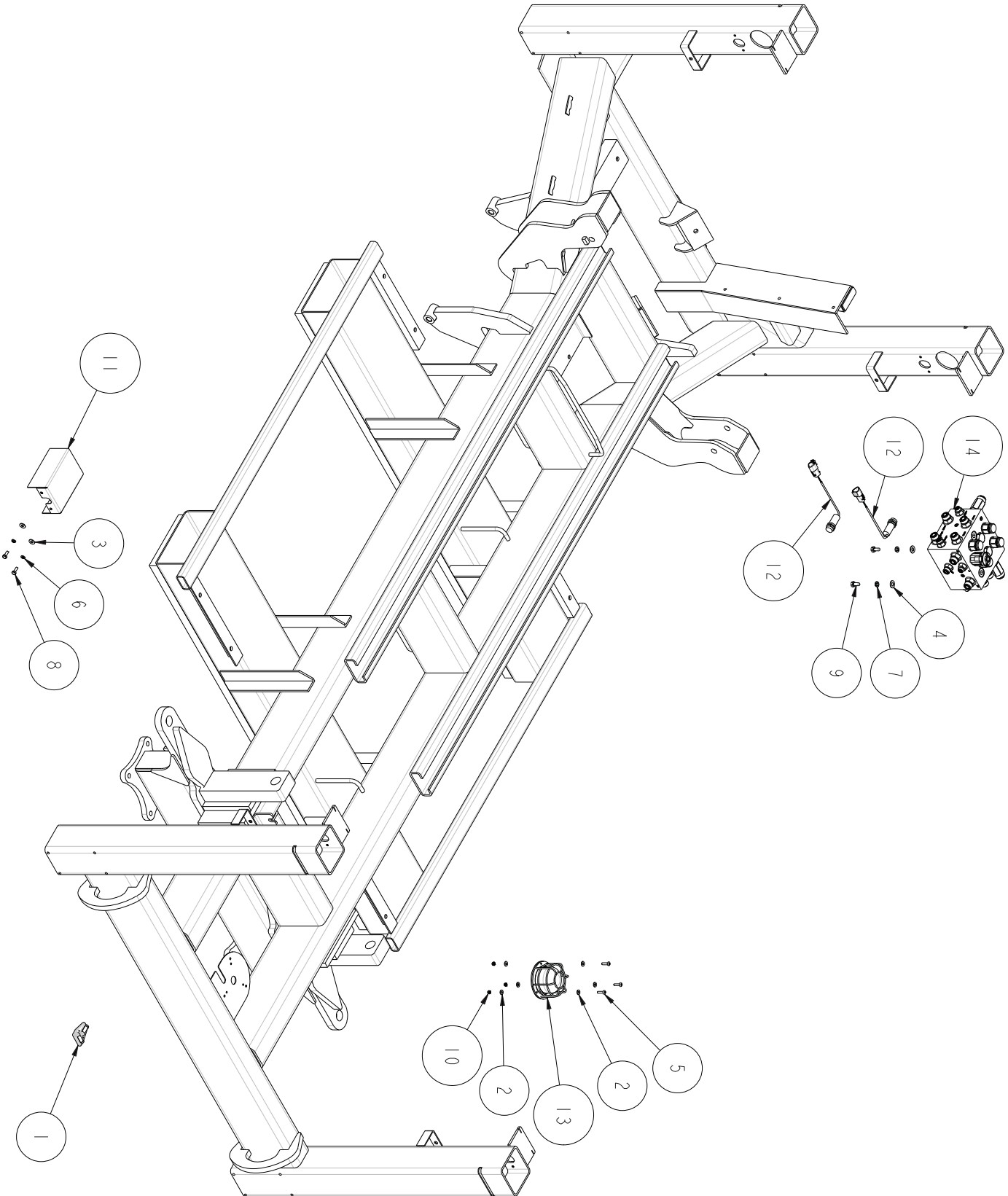
Access level 1 is required to make adjustments to values, calibrations, and change setups.

Access Codes to change between Access Levels prevent inadvertent adjustments.

Chassis Assembly 1-2
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Chassis Assembly

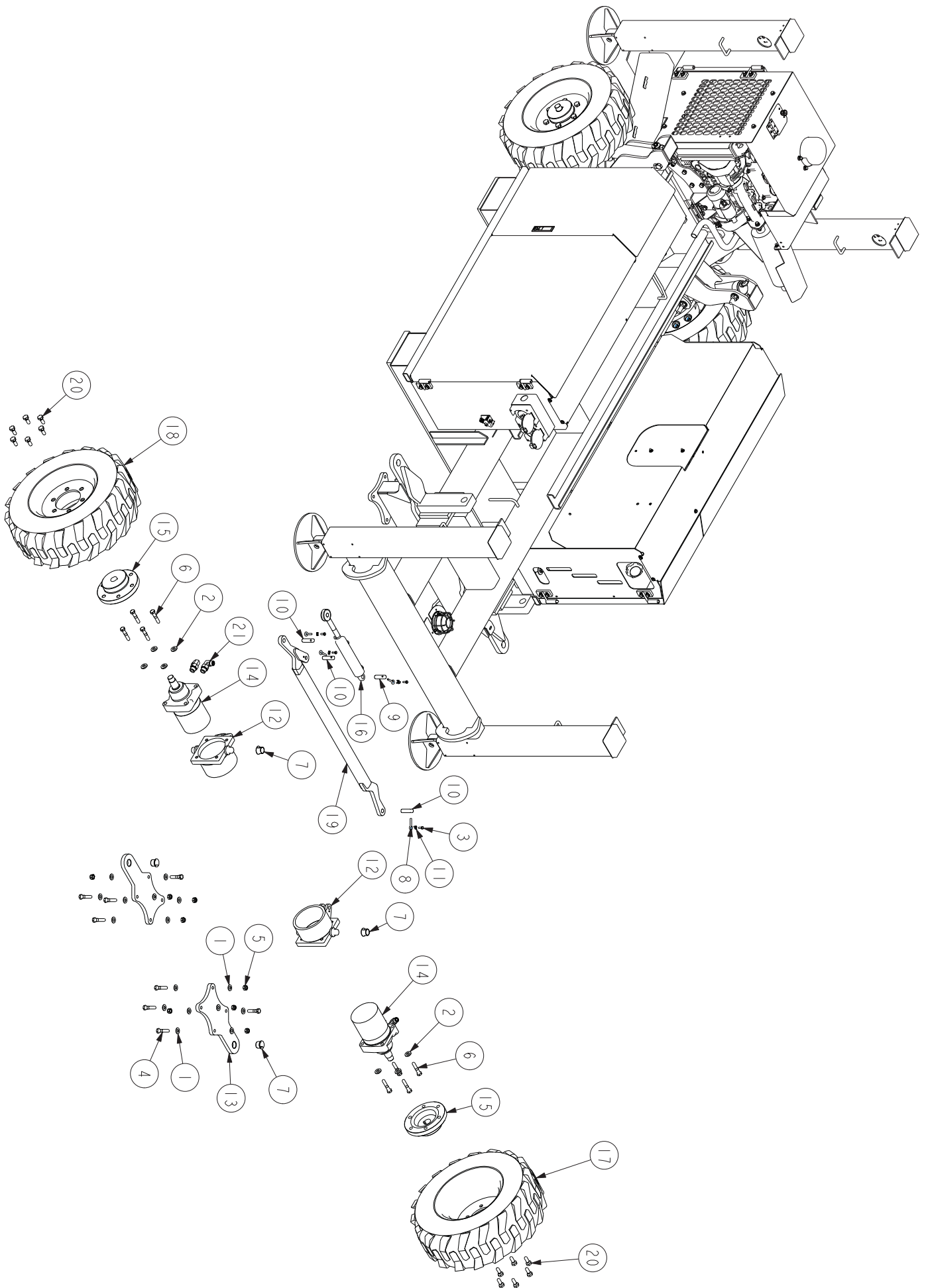
Item	Part No.	Qty.	Description
0	15023A	1	Chassis Assembly
1	1273-2	1	Level Bubble, T Shaped
2	3603-05	6	Plain Washer
3	3603-06	2	Plain Washer
4	3603-08	2	Plain Washer
5	3604-05020	3	Screw, Pan Head Pozi- M5 x 20 ZP
6	3605-06	2	Spring Washer
7	3605-08	2	Spring Washer
8	3610-06016	2	Metric Bolt
9	3610-08016	2	Metric Bolt
10	3611-05	3	Metric Nyloc Nut
11	12818	1	Bleed down Cover
12	15085-03	2	Axle Prox
13	514404-000	1	Flashing Light and Light Guard Assembly
14	13780A	1	Manifold Assy- 4WD SR V4



Steer Axle Assembly

Item	Part No	Qty	Description
1	3603-12	16	Plain Washer
2	3603-12HD	24	Plain Washer
3	3610-06016	4	Metric Bolt
4	3610-12050	8	Metric Bolt
5	3611-12	8	Metric Nyloc Nut
6	3616-12060	16	Metric Bolt Grade 10.9
7	3626-1	4	Flanged Permaglide Bush
8	8628	4	Pin Keeper - Rolled Eye 6mm
9	9311	1	PIN 5/8" x 53 lg
10	9319	3	PIN: 15 x 56 lg
11	11492-1	4	Tab Washer
12	11590	2	Swivel Housing, Kingpin
13	11595-9	2	Bearing Support, Lower
14	11601	2	Wheel Motor
15	11629	2	Wheel Hub
16	11699	1	Cylinder- Steer, SR
17	12286-3L	2	Wheel, Left Hand, Foam Filled
18	12286-3R	2	Wheel, Right Hand, Foam Filled
19	12303	1	Steering Rod
20	98300-9	24	Countersunk Wheel Bolt
21	100434-014	4	Hyd Fitting- 90 Elbow ORFS(08)-SAE(10)

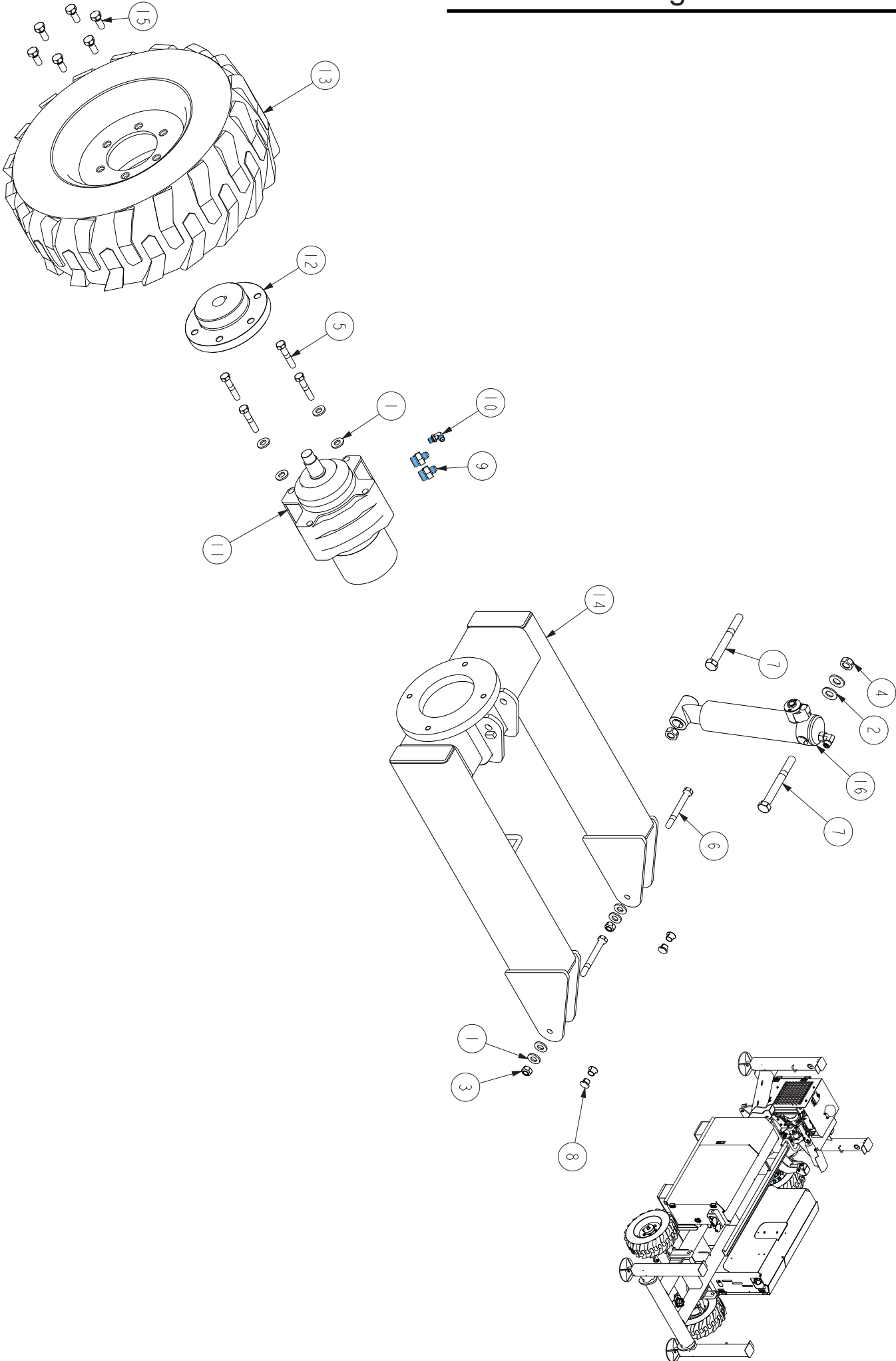
Steer Axle Assembly



Swing Arms Assembly

Item	Part No	Qty	Description
1	3603-12HD	8	Plain Washer
2	3603-16HD	4	Plain Washer
3	3608-12C	2	Cone Lock Nut
4	3608-16C	2	Cone Lock Nut
5	3616-12060	4	Metric Bolt
6	3616-12100	2	Metric Bolt
7	3616-16140	2	Metric Bolt
8	3626-2	4	Flanged Permaglide Bush
9	511327-000	2	Adaptor, JICM - UNO Straight
10	100434-002	1	Adaptor, JICM - UNO Elbow
11	11600	1	Wheel Motor 335cc
12	11629	1	Wheel Hub
13	12286-3R	1	Wheel, Right Hand, Foam Filled
	12286-3L	1	Wheel, Left Hand, Foam Filled
	12286-4R	1	Wheel, Right Hand, Non Marking
	12286-4L	1	Wheel, Left Hand, Non Marking
14	12296	1	Swing Arm Weld
15	98300-9	6	Countersunk Wheel Bolt
16	11642A	1	Axle Cylinder Assembly

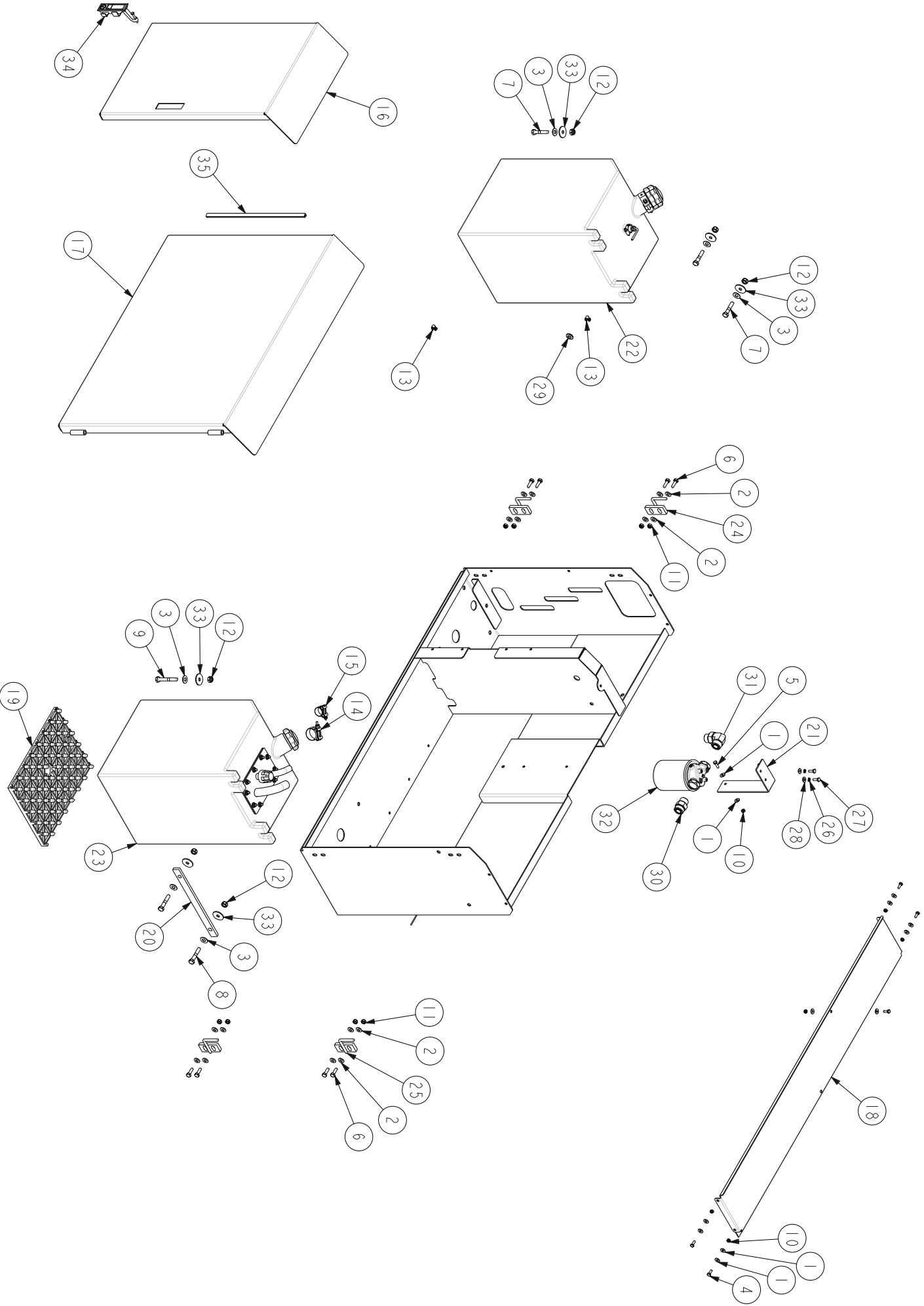
Swing Arms Assembly



Fuel Cabinet Assembly

Item	Part No.	Qty.	Description
0	13968A	1	Fuel Cabinet Assembly
1	3603-06	14	Plain Washer
2	3603-08	16	Plain Washer
3	3603-10	6	Plain Washer
4	3610-06016	5	Metric Bolt
5	3610-06020	2	Metric Bolt
6	3610-08025	8	Metric Bolt
7	3610-10050	3	Metric Bolt
8	3610-10055	2	Metric Bolt
9	3610-10070	1	Metric Bolt
10	3611-06	7	Metric Nyloc Nut
11	3611-08	8	Metric Nyloc Nut
12	3611-10	6	Metric Nyloc Nut
13	3618-10	2	Hose Clamp 8-10 mm ZP
14	3618-32	1	Hose Clamp 34-37mm ZP (Pass.)
15	3618-43	1	Hose Clamp 23-25mm ZP (Pass.)
16	11679	1	Cabinet Door- Small
17	11680	1	Cabinet Door- Large
18	12313-10	1	Top Panel (Side Cabinet)
19	12314-3	1	Pad Hydraulic Tank
20	12314-4	1	Spacer Hydraulic Tank Mount
21	12329	1	Bracket Return Line Filter
22	13106-2A	1	Fuel Tank Assy- SR
23	13106-5A	1	Hydraulic Tank FW
24	13869-01	2	Cabinet Hinge, LH
25	13869-02	2	Cabinet Hinge, RH
26	60005-007	2	Spring Washer
27	60015-006	2	3/4" x 1/4" NC Bolt (Plated)
28	60030-006	2	1/4"X 5/8"X1/64 Flat Sash
29	65004-008	1	Rubber Grommet
30	100432-027	1	Hyd Fitting- Straight ORFS(12)-SAE(12)
31	100434-021	1	Hyd Fitting- 90 Elbow ORFS(12)-SAE(12)
32	301440	1	AE-10 Oil Filter
33	5560179	6	Flat Washer-Special
34	8342416	1	Latch - Adjustable Trigger, Key 508CH
35	PCA015	1	Rubber Channel Section
34	8342416-1	1	Key 508CH
34	8342416-3	1	Latch Adjustable Trigger, Key 501CH
34	8342416-2	1	Key 501CH

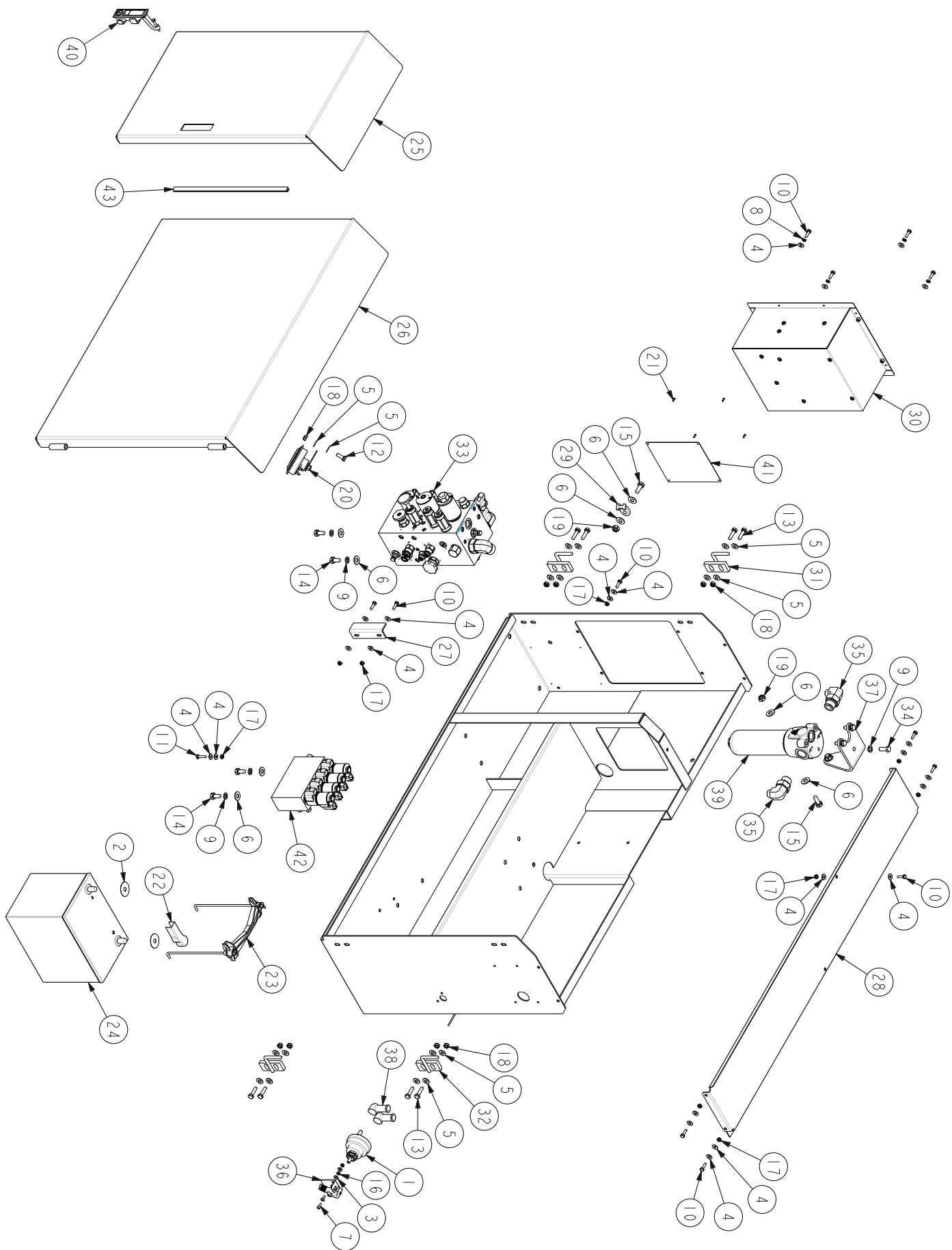
Fuel Cabinet Assembly



Control Cabinet Assembly

Item	Part No.	Qty.	Description
0	13969A	1	Control Cabinet Assembly
1	302-0049	1	Switch Battery Disconnect
2	2069	1	Anti Corrosive Pads
3	3603-05	2	Plain Washer
4	3603-06	26	Plain Washer
5	3603-08	18	Plain Washer
6	3603-10	10	Plain Washer
7	3604-05012	2	Screw, Pan Head Pozi- M5 x 12 ZP
8	3605-06	4	Spring Washer
9	3605-10	7	Spring Washer
10	3610-06020	14	Metric Bolt
11	3610-06025	1	Metric Bolt
12	3610-08020	1	Metric Bolt
13	3610-08030	8	Metric Bolt
14	3610-10020	4	Metric Bolt
15	3610-10025	3	Metric Bolt
16	3611-05	2	Metric Nyloc Nut
17	3611-06	11	Metric Nyloc Nut
18	3611-08	9	Metric Nyloc Nut
19	3611-10	3	Metric Nyloc Nut
20	4381	1	Horn
21	8974	4	Screw, Hammer Drive
22	10254	1	Cover Battery Terminal HA 206U
23	10268-1	1	Battery Bracket HA 8023
24	11596	1	Battery 12v BVS 70
25	11679	1	Cabinet Door- Small
26	11680	1	Cabinet Door- Large
27	12313-11	1	Latch Bracket
28	12857-10	1	Top Panel (Side Cabinet)
29	13164	1	Cable Tie Mount- M10
30	13811	1	Lower Control Box Assembly
31	13869-01	2	Cabinet Hinge, LH
32	13869-02	2	Cabinet Hinge, RH
33	15088	1	Manifold Assy- Main SR V4
34	60017-007	3	1" X 3/8 UNC Bolt
35	100434-015	2	Hyd Fitting- 90 Elbow ORFS(08)-SAE(12)
36	300840	1	Lock Out Lever Asm.
37	1431833	1	Bracket - Pressure Filter
38	3040269	2	Boot Cable Entry Black I/O GA
39	6019325	1	Pressure Filter
40	8342416	1	Latch - Adjustable Trigger, Key 508CH
41	0070901E	1	Name Plate
42	13781A	1	Manifold Assy- Stabiliser SR V4
43	PCA015	1	Rubber Channel Section
40	8342416-1	1	Key 508CH
40	8342416-3	1	Latch - Adjustable Trigger, Key 501CH
40	8342416-2	1	Key 501CH

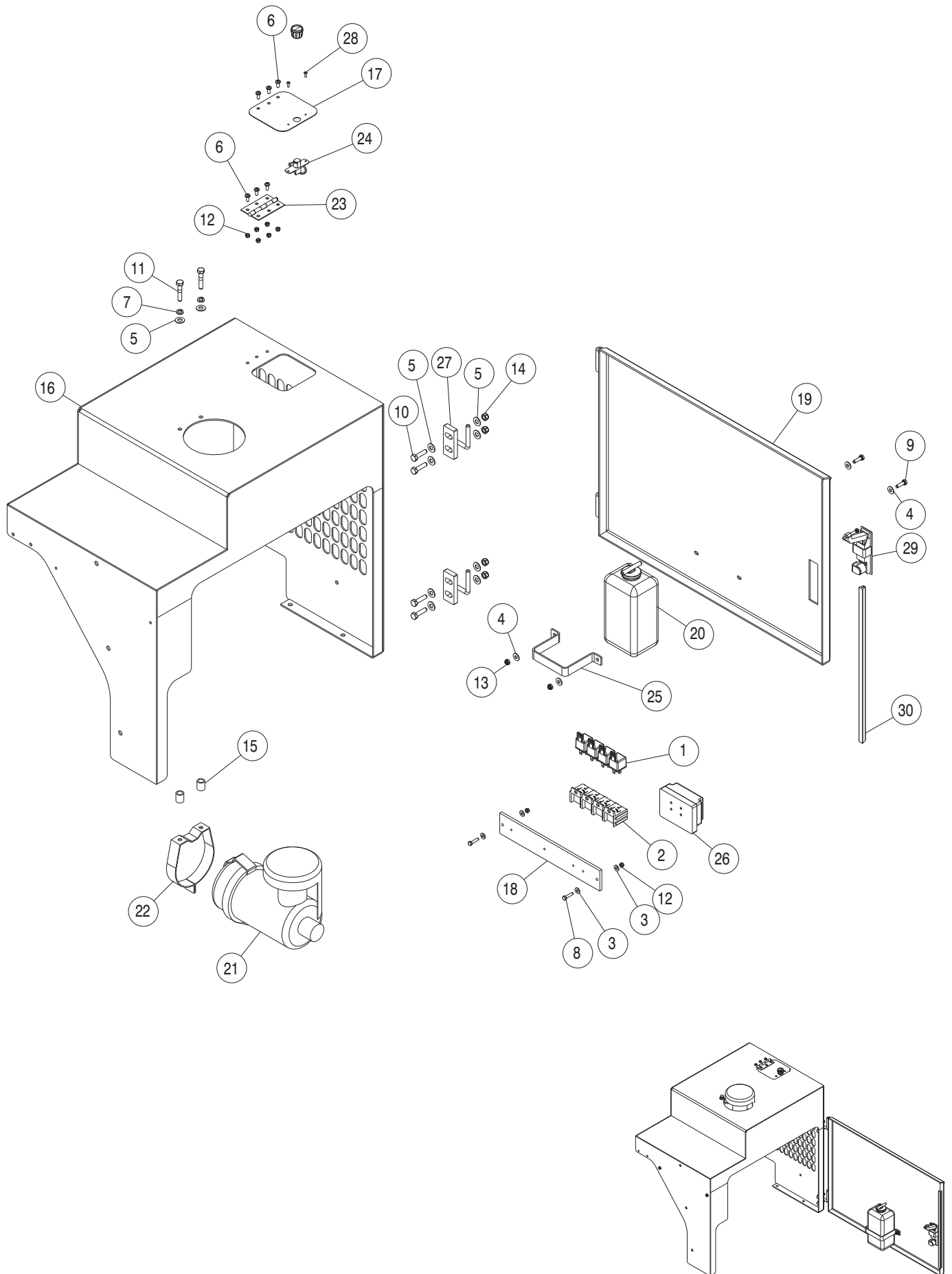
Control Cabinet Assembly



Engine Cabinet Assembly

Item	Part No	Qty	Description
0	13028A	1	Engine Cabinet Assembly
1	1650-010	4	Relay 12V
2	2065-002	4	Plugin Relay Base
3	3603-05	4	Plain Washer
4	3603-06	4	Plain Washer
5	3603-08	10	Plain Washer
6	3604-05012	6	Pan Head Screw
7	3605-08	2	Spring Washer
8	3610-05020	2	Metric Bolt
9	3610-06020	2	Metric Bolt
10	3610-08030	4	Metric Bolt
11	3610-08040	2	Metric Bolt
12	3611-05	8	Metric Nylock Nut
13	3611-06	2	Metric Nylock Nut
14	3611-08	4	Metric Nylock Nut
15	12036-5	5	Sliding Spacer
16	13028	1	Engine Cabinet Weld
17	13028-10	1	Radiator Flap
18	13028-9	1	Relay and Fuse Mounting Strip
19	13032	1	Door Weld
20	13086-03	1	Radiator Overflow Bottle
21	13086-05	1	Air Filter Assembly
22	13086-05	1	Air Filter Bracket
23	13101	1	Hinge
24	13102	1	Twist Latch
25	13103	1	Overflow Tank Mount
26	13806	1	Fuse Block, Blade x 6
27	13869-02	2	Cabinet Hinge, RH
28	60027-014	2	Rivit 1/8 x 5/32
29	8342416	1	Latch Adjustable Trigger, Key 508CH
30	PCA015	1	Rubber Channel Section
29	8342416-1	1	Key 508CH
29	8342416-3	1	Latch Adjustable Trigger, Key 501CH
29	8342416-2	1	Key 501CH

Engine Cabinet Assembly



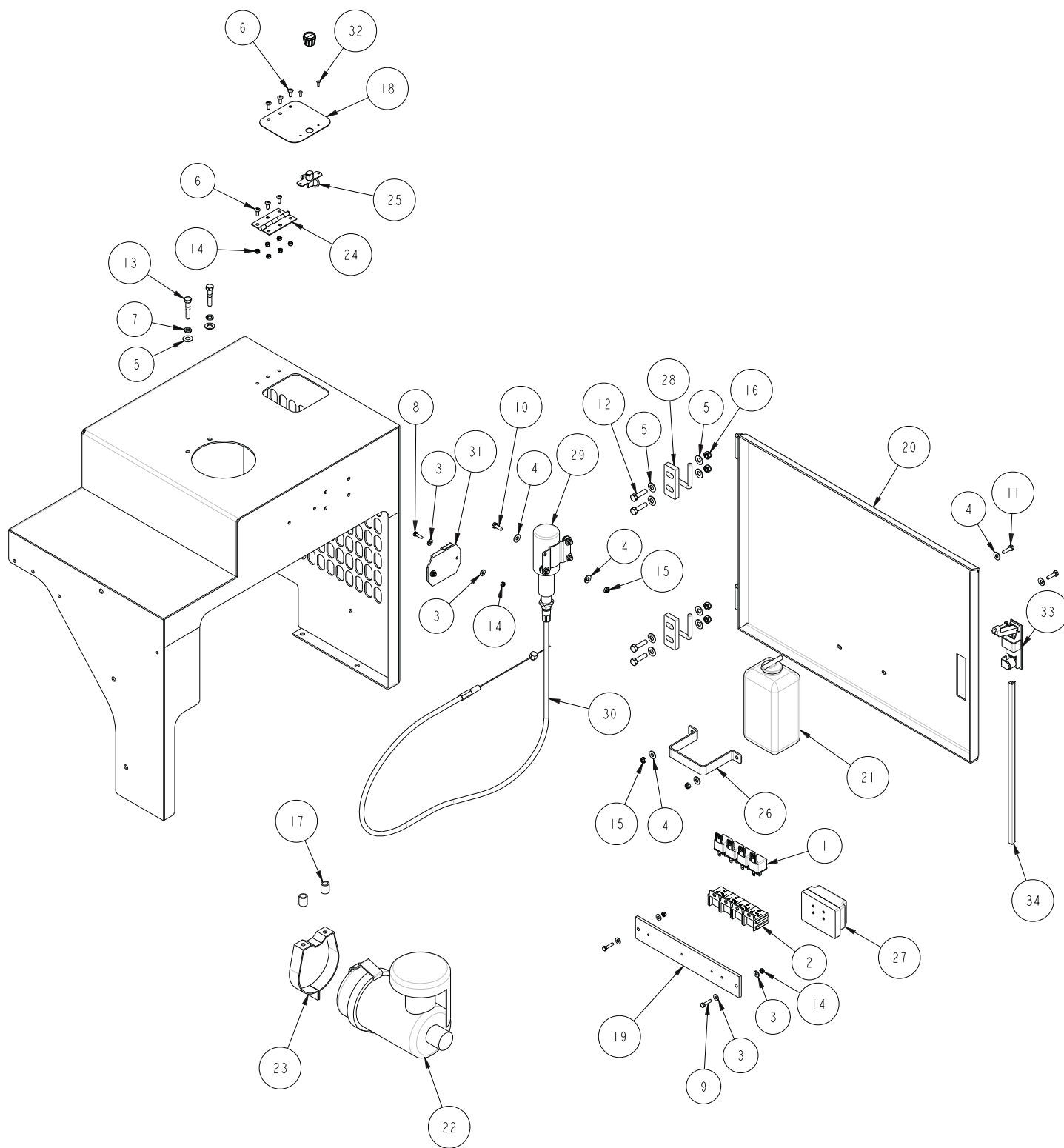
Engine Cabinet Assembly After Serial Numbers:

S2255RT-07-180300155

S2755RT-07-180300173

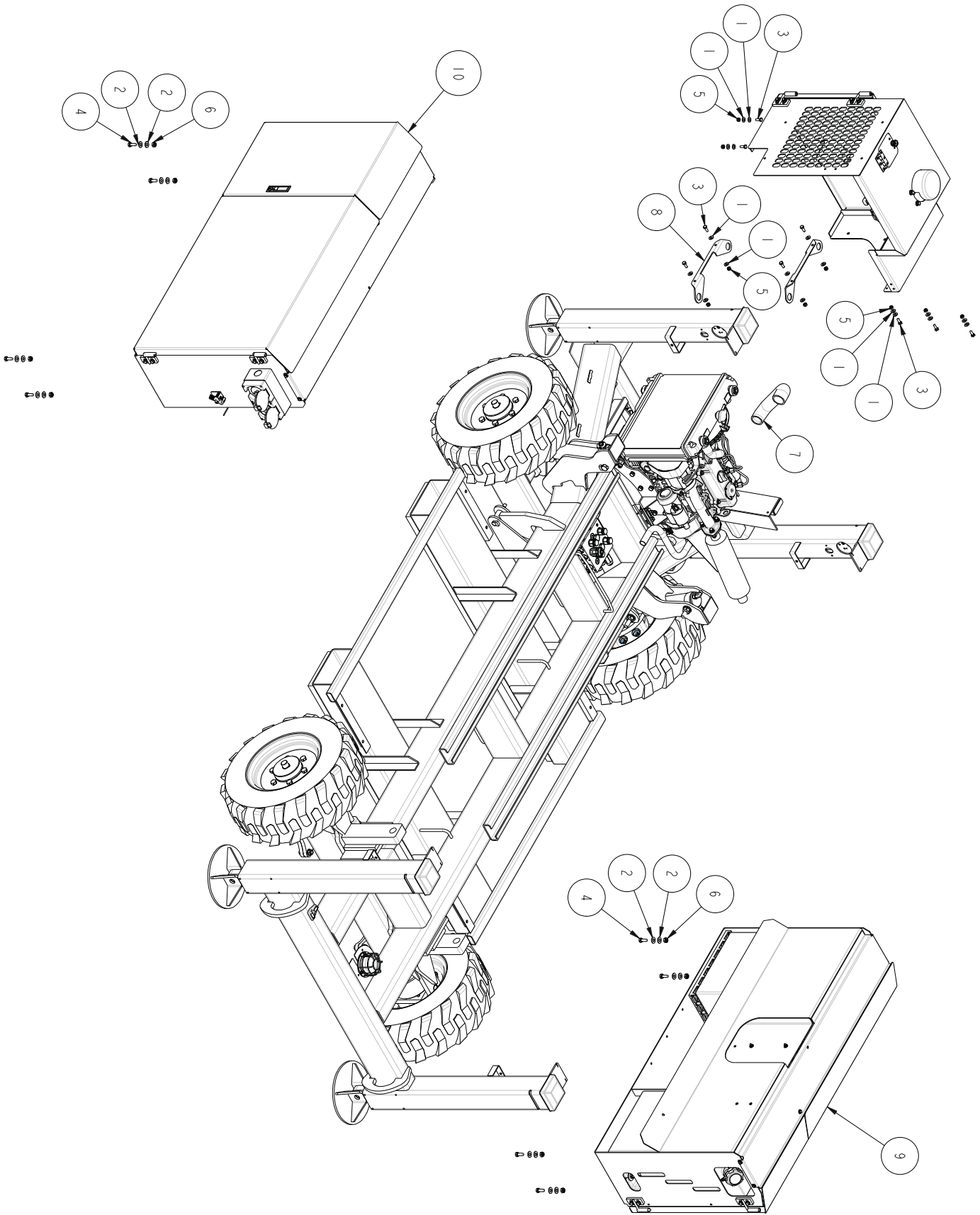
Item	Part No.	Qty.	Description
0	13028A	1	Engine Cabinet Assembly
1	1650-010	4	Relay 12V
2	2065-002	4	Plugin Relay Base
3	3603-05	8	Plain Washer
4	3603-06	12	Plain Washer
5	3603-08	10	Plain Washer
6	3604-05012	6	Screw, Pan Head Pozzi- M5 x 12 ZP
7	3605-08	2	Spring Washer
8	3610-05016	2	Metric Bolt
9	3610-05020	2	Metric Bolt
10	3610-06016	4	Metric Bolt
11	3610-06020	2	Metric Bolt
12	3610-08030	4	Metric Bolt
13	3610-08040	2	Metric Bolt
14	3611-05	10	Metric Nyloc Nut
15	3611-06	6	Metric Nyloc Nut
16	3611-08	4	Metric Nyloc Nut
17	12036-5	2	Sliding Spacer
18	13028-10	1	Radiator Flap
19	13028-9	1	Relay and Fuse Mounting Strip
20	13032	1	Door - Engine Cabinet, SRxx55
21	13086-03	1	Radiator Overflow Bottle
22	13086-04	1	Air Filter Assembly
23	13086-05	1	Air Filter Brkt
24	13101	1	Hinge
25	13102	1	Twist Latch
26	13103	1	Overflow Tank Mount
27	13806	1	Fuse Block- Blade x 6
28	13869-02	2	Cabinet Hinge, RH
29	15106_SOLENOID_BODY	1	Solenoid - Trombetta
30	15107-02	1	Cable assembly - throttle
31	15108	1	Control Module - Trombetta
32	60027-014	2	Rivet 1/8 x 5/32
33	8342416	1	Latch - Adjustable Trigger, Key 508CH
34	PCA015	1	Rubber Channel Section
33	8342416-1	1	Key 508CH
33	8342416-3	1	Latch - Adjustable Trigger, Key 501CH
33	8342416-2	1	Key 501CH

Engine Cabinet Assembly After Serial Numbers: S2255RT-07-180300155 S2755RT-07-180300173



Cabinets Assembly

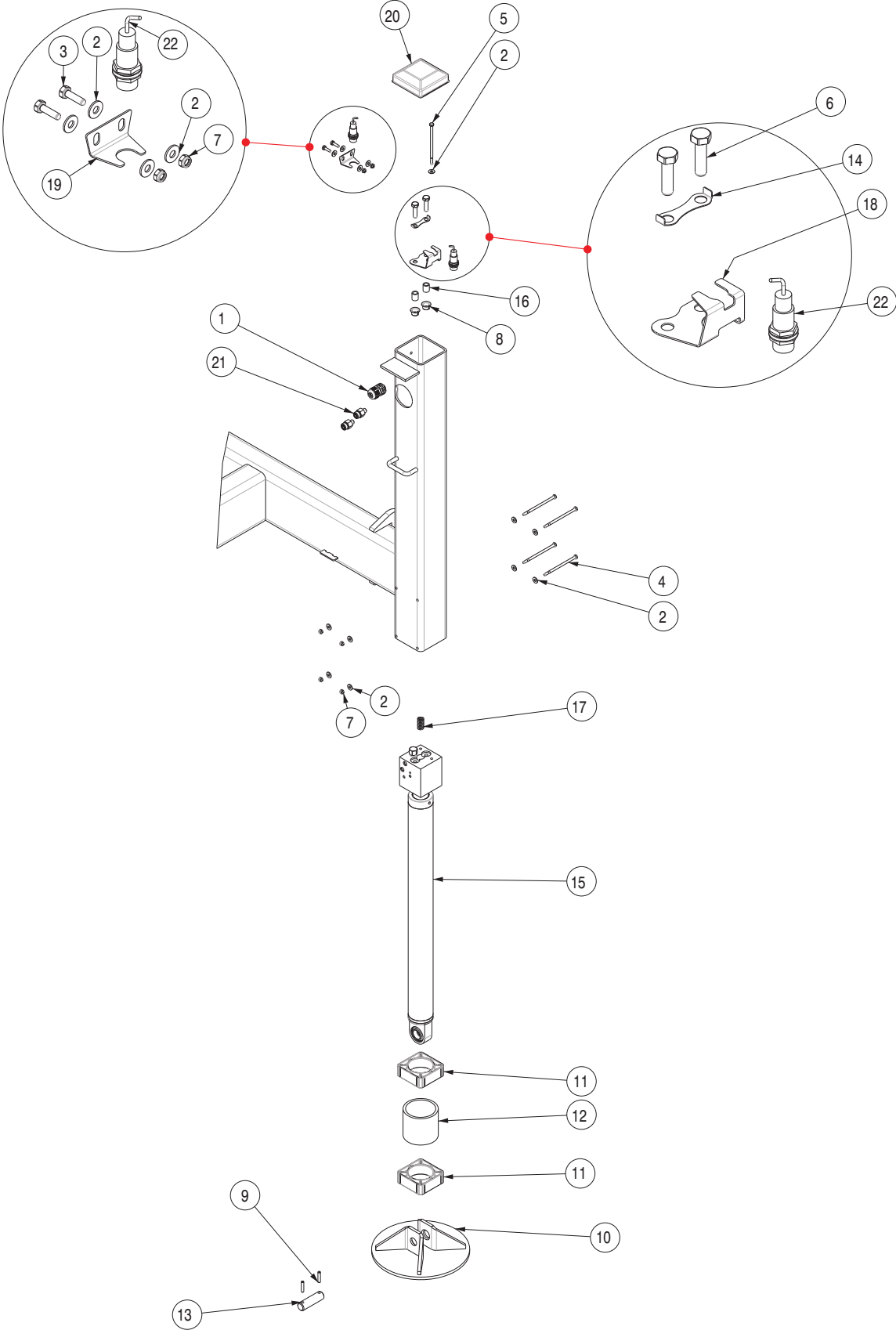
Item	Part No.	Qty.	Description
1	3603-08	20	Plain Washer
2	3603-10	20	Plain Washer
3	3610-08020	9	Metric Bolt
4	3610-10025	8	Metric Bolt
5	3611-08	9	Metric Nyloc Nut
6	3611-10	12	Metric Nyloc Nut
7	13086-02	1	Air Filter Hose- Kubota 16863-11621
8	13099-2	2	Radiator Bracket
9	13968A	1	Hydraulic Cabinet
10	13969A	1	Control Cabinet



V4 Stabiliser Assembly

Item	Part No	Qty	Description
0	12036A	1	Stabiliser Cylinder Assembly
1	1814	1	Cable Gland, Nylon, M20
2	3603-06	13	Plain Washer
3	3610-06020	2	Metric Bolt
4	3610-06110	4	Metric Bolt
5	3610-06120	1	Metric Bolt
6	3610-10020	2	Metric Bolt
7	3611-06	6	Metric Nylock Nut
8	3626-8	2	Flanged Permaglide Bush
9	3633-3	2	Roll Pin
10	11305	1	Foot Weld
11	11366-1	2	Stabiliser Bush
12	11366-2	1	Stabiliser Bush Spacer
13	11369	1	Pin
14	11492-4	1	Locktab
15	12036	1	Cylinder - Stabiliser SR
16	12036-5	2	Sliding Spacer
17	12036-6	1	Compression Spring
18	13771-40	1	Prox Bracket, Leg Stowed
19	13771-45	1	Prox Bracket, Leg On Ground
20	13771-50	1	RHS Cap - 100 x 100 Steel
21	100432-007	2	Hyd Fitting - Straight ORFS(06) - SAE(04)
22	15048	2	Prox Switch

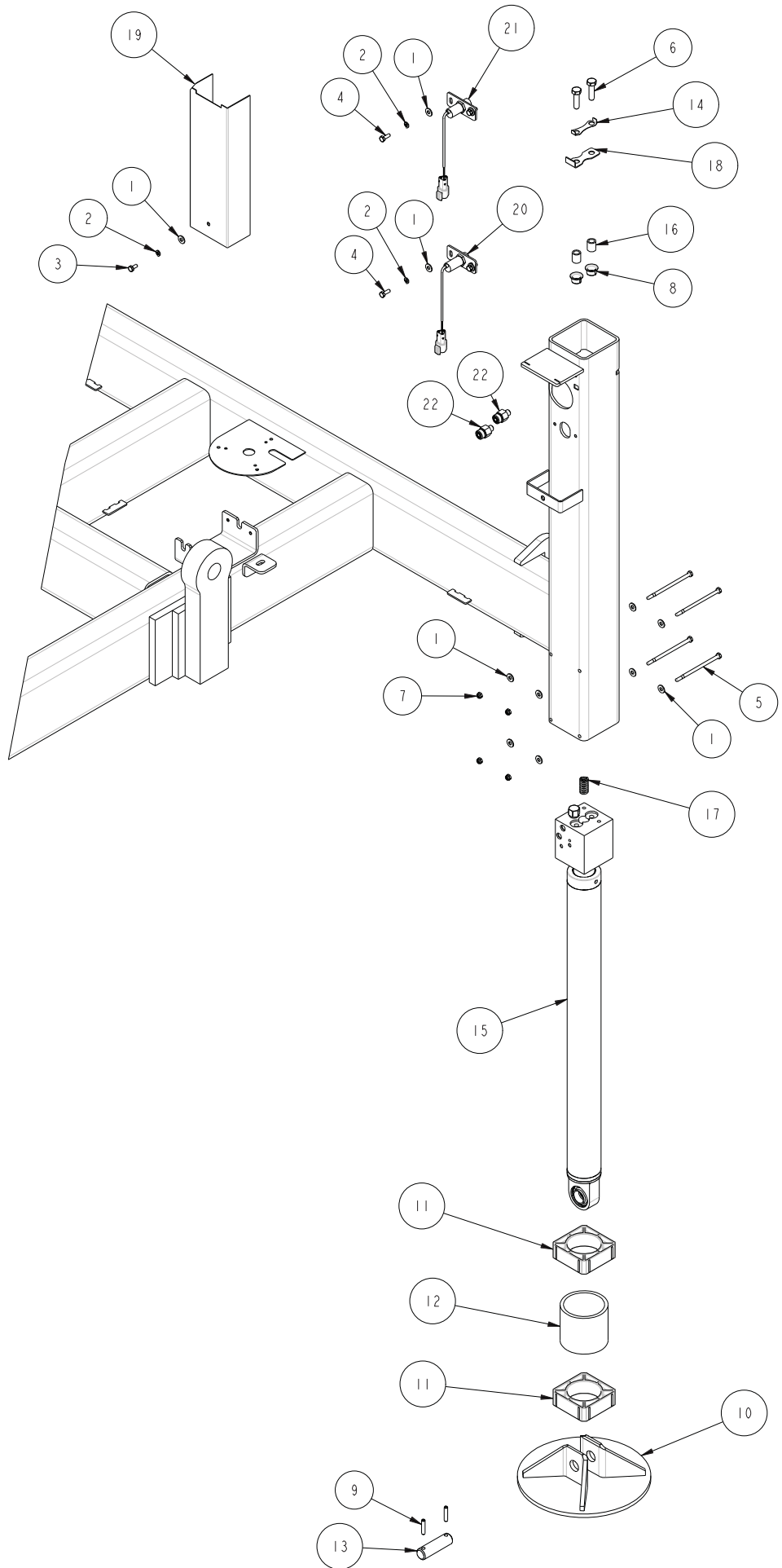
V4 Stabiliser Assembly



V5 Stabiliser Assembly

Item	Part No.	Qty.	Description
0	12036A	1	Stabiliser Cylinder Assembly
1	3603-06	28	Plain Washer
2	3605-06	20	Spring Washer
3	3610-06012	4	Metric Bolt
4	3610-06016	16	Metric Bolt
5	3610-06110	4	Metric Bolt
6	3610-10035	2	Metric Bolt
7	3611-06	4	Metric Nyloc Nut
8	3626-8	2	Flanged Permaglides Bush
9	3633-3	2	Roll Pin
10	11305	1	Foot Weld Inverted Stabiliser Leg
11	11366-1	2	Stabilizer Bush
12	11366-2	1	Stabiliser Bush Spacer
13	11369	1	Pin
14	11492-4	1	Dual Locktab
15	12036	1	Cylinder- Stabiliser SR
16	12036-5	2	Sliding Spacer
17	12036-6	1	Compression Spring
18	14098-02	2	Prox Target, Leg Grounded, SR
19	14098-03	4	Hose cover
20	15085-01	4	Leg Prox w Mount 10mm
21	15085-02	4	Leg Prox w Mount 20mm
22	100432-007	2	Hyd Fitting- Straight ORFS(06)-SAE(04)

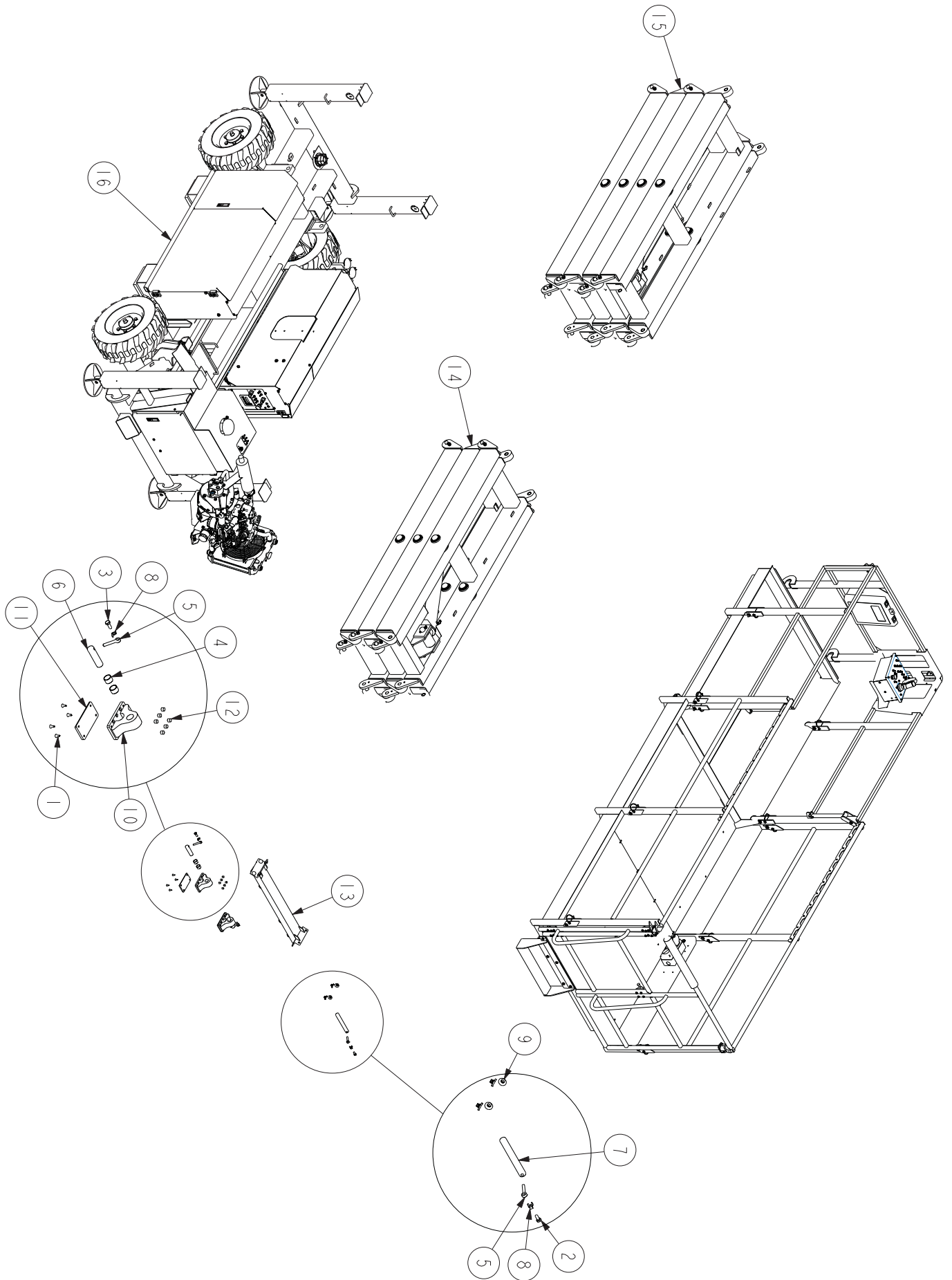
V5 Stabiliser Assembly



Base, Stack, Platform Assembly

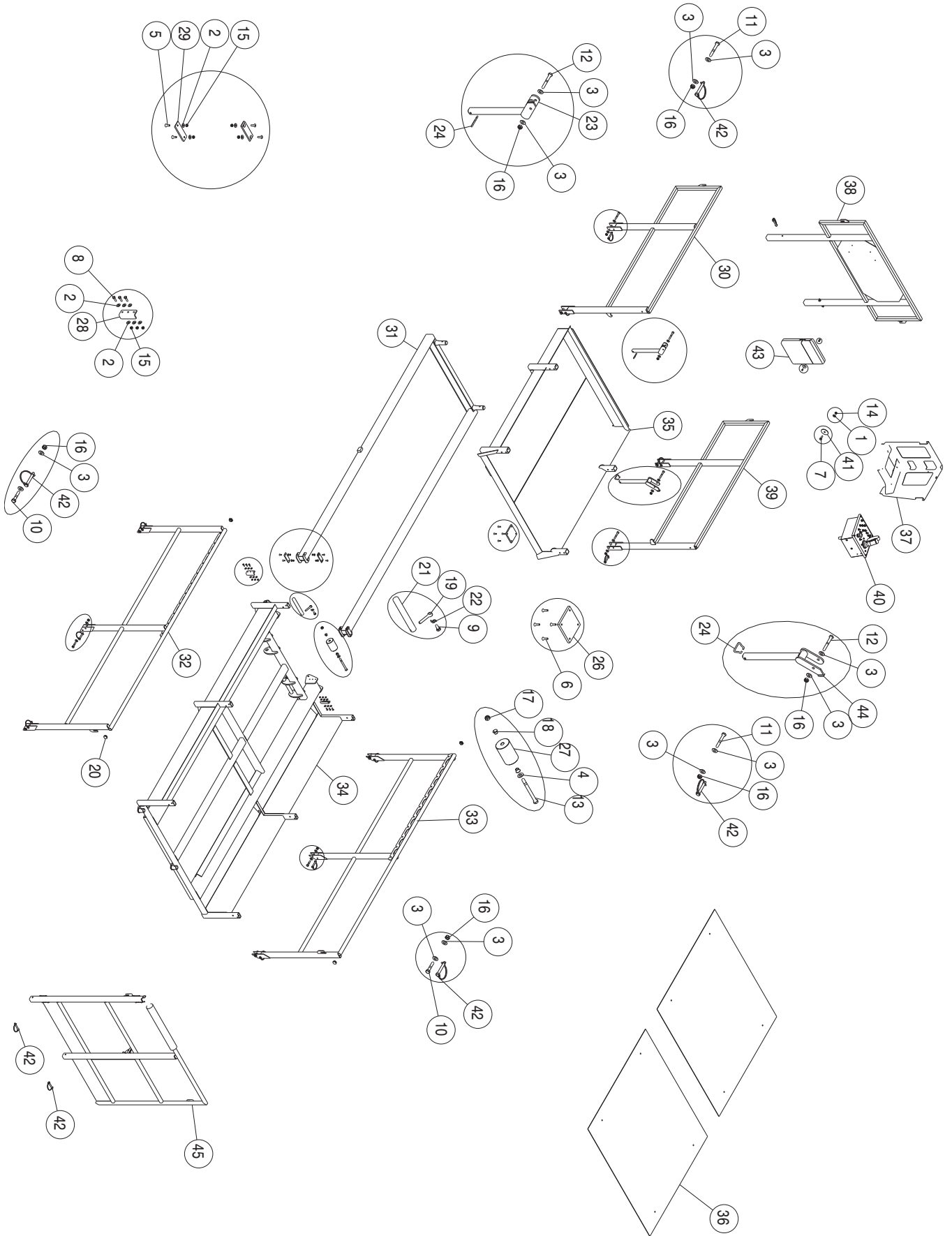
Item	Part No	Qty	Description
1	3606-06016	8	Socket Head Screw
2	3610-10020	2	Metric Bolt
3	3610-10025	2	Metric Bolt
4	3624-3	4	Permaglide Bush
5	8626	4	Pin Keeper
6	8699	2	Pin
7	9792	2	Pin
8	11492-3	4	Tab Washer
9	11658-20	8	Wear Plug
10	12566	2	Sliding Block Weld
11	12566-2	2	Wear Pad Slider Block (Bottom)
12	12566-3	12	Slider Block Top
13	12589	1	Slider Bar Weld
14	12850	1	2255 Stack
15	13893-02	1	2755 Stack
16	15023A	1	2255 Base Assembly
16	15024A	1	2755 Base Assembly

Base, Stack, Platform Assembly



Platform Assembly

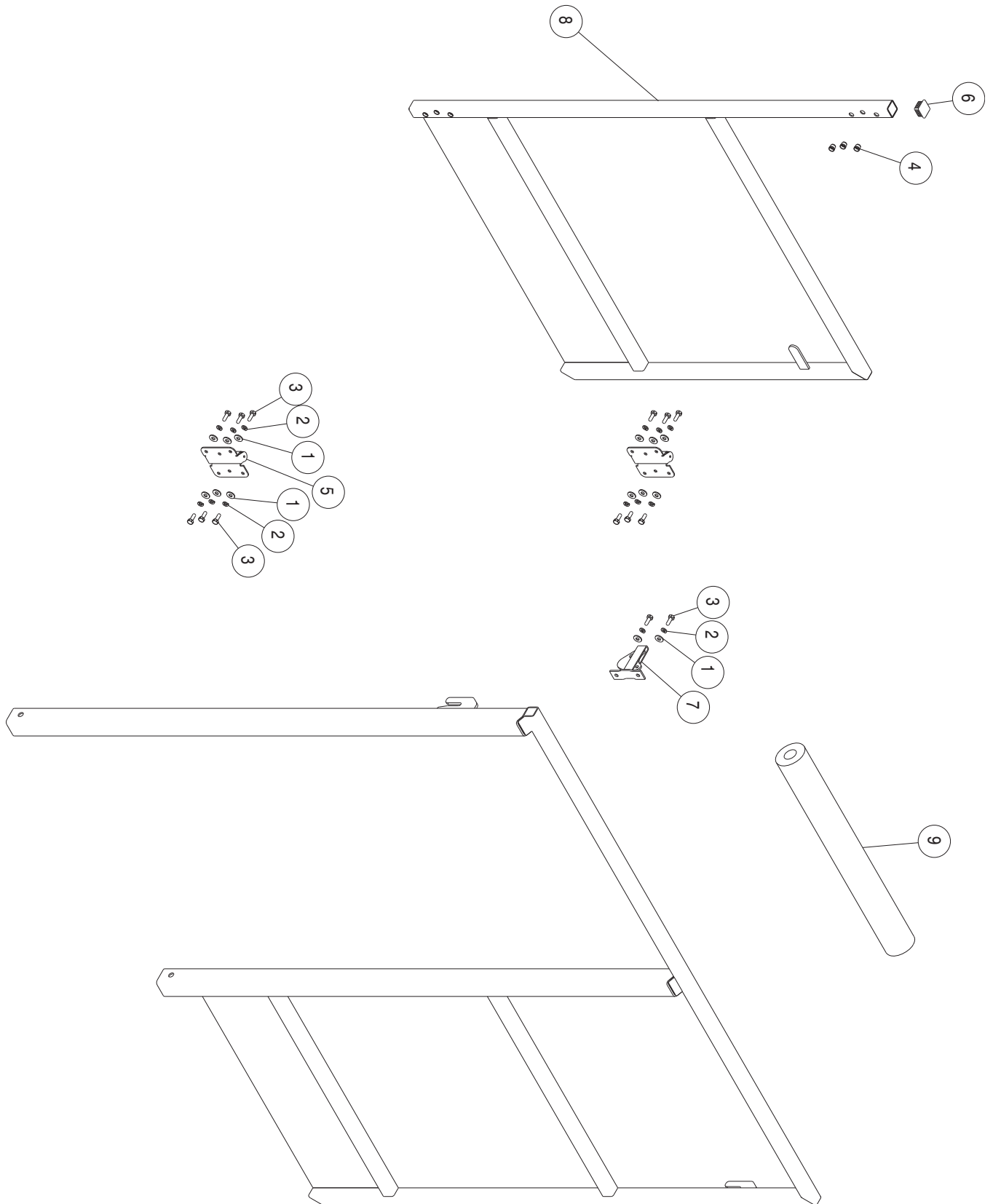
Item	Part No	Qty	Description
0	13152A	1	Platform Assembly
1	3603-05	2	Plain Washer
2	3603-06	20	Plain Washer
3	3603-10	24	Plain Washer
4	3603-12	4	Plain Washer
5	3606-06020	8	Socket Head Screw
6	3606-06025	8	Socket Head Screw
7	3610-05016	2	Metric Bolt
8	3610-06020	6	Metric Bolt
9	3610-10020	4	Metric Bolt
10	3610-10050	6	Metric Bolt
11	3610-10070	4	Metric Bolt
12	3610-10075	2	Metric Bolt
13	3610-12130	2	Metric Bolt
14	3611-05	2	Metric Nylock Nut
15	3611-06	14	Metric Nylock Nut
16	3611-10	12	Metric Nylock Nut
17	3611-12	2	Metric Nylock Nut
18	3626-2	4	Flanged Permaglide Bush
19	8626	4	Pin Keeper
20	8926-1	4	Plug, RHS, 25mm
21	9792	4	Pin
22	11492-3	4	Tab Washer
23	11695	1	Handrail Latch, Left
24	11695-3	2	Latch Holding Ring
25	12589	1	Slider Bar Weld
26	12709-10	2	Rollout Deck Slide Pad
27	13122-11	2	External Roller
28	13122-12	2	Stop, Rollout
29	13122-14	4	Wear Pad, Internal
30	13124	1	Handrail, Left Front
31	13128	1	Rollout Frame Weld
32	13130	1	Left Hand Rail
33	13131	1	Right Hand Rail
34	13152	1	Platform Weld
35	13153	1	Rollout Deck Weld
36	13155	2	Platform Floor
37	13921	1	Control Mount
38	13970	1	Handrail, Front
39	13971	1	Handrail, Right
40	14023	1	Upper Control Box Assembly
41	60030-19B	2	1/4" Fender Washer
42	302544	14	Pin and Lock
43	562386	1	Literature Compartment
44	11695R	1	Handrail Latch, Right
45	13156A	1	Handrail, Entry End



Platform Rear Handrail Assembly

Item	Part No	Qty	Description
1	3603-06	14	Plain Washer
2	3605-06	14	Spring Washer
3	3610-06016	14	Metric Bolt
4	3628-06	6	Nutsert M6
5	7495	2	Spring Hinge
6	8926-1	1	Plug, RHS, 25mm
7	11691-10	1	Gate Latch Striker Set
8	13127	1	Handrail, Gate
9	9980003	1	Foam Pipe Wrap

Platform Rear Handrail Assembly

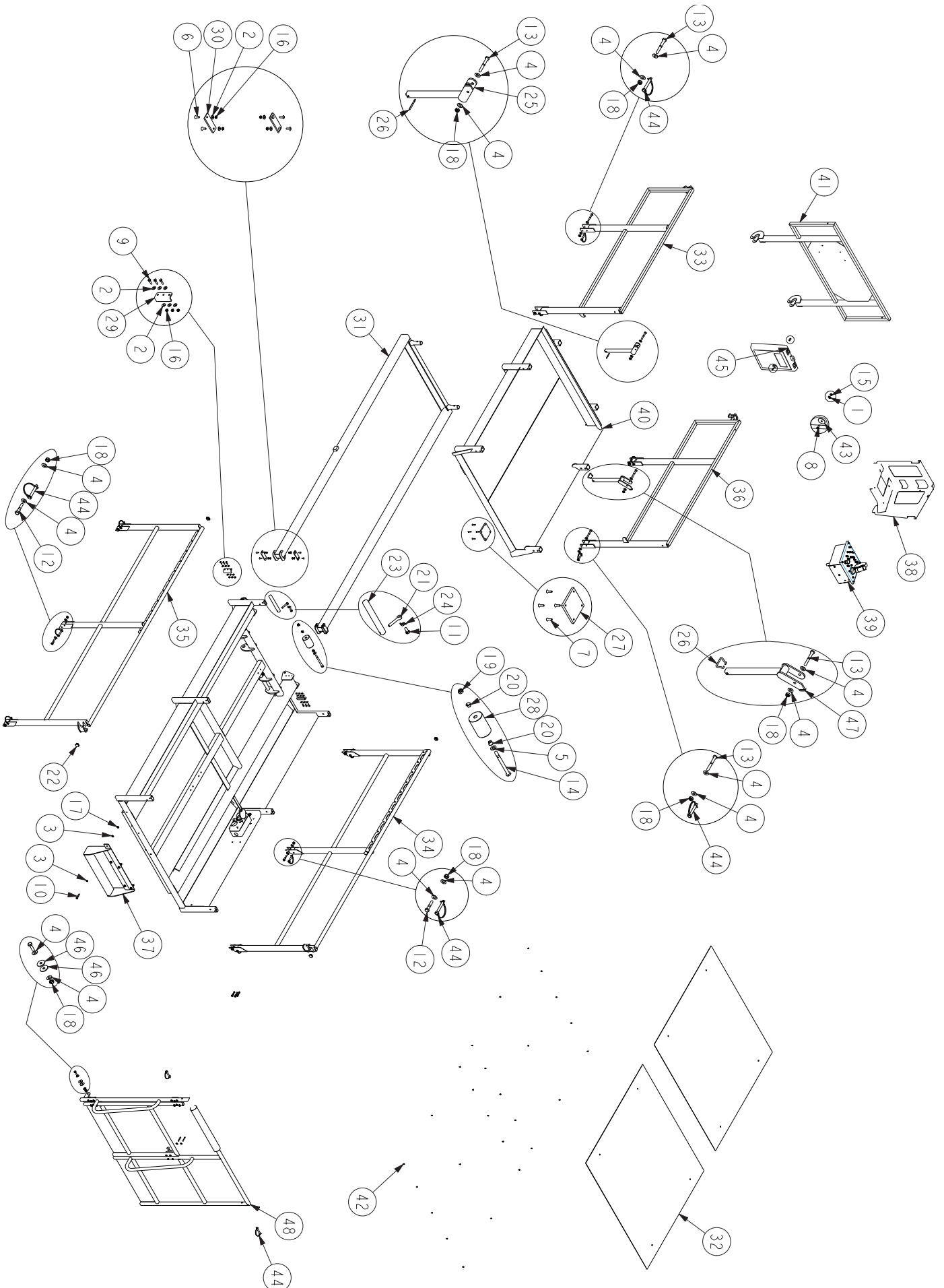


Platform Assembly After Serial Numbers

S2255RT-07-000109 & S2755RT-07-000104

Item	Part No.	Qty.	Description
0	14054A	1	Platform Assembly SRxx55
1	3603-05	6	Plain Washer
2	3603-06	20	Plain Washer
3	3603-08	10	Plain Washer
4	3603-10	28	Plain Washer
5	3603-12	4	Plain Washer
6	3606-06020	8	Countersunk Socket Head Screw
7	3606-06025	8	Countersunk Socket Head Screw
8	3610-05016	2	Metric Bolt
9	3610-06020	6	Metric Bolt
10	3610-08045	5	Metric Bolt
11	3610-10020	4	Metric Bolt
12	3610-10050	6	Metric Bolt
13	3610-10075	6	Metric Bolt
14	3610-12130	2	Metric Bolt
15	3611-05	6	Metric Nyloc Nut
16	3611-06	14	Metric Nyloc Nut
17	3611-08	5	Metric Nyloc Nut
18	3611-10	14	Metric Nyloc Nut
19	3611-12	2	Metric Nyloc Nut
20	3626-2	4	Flanged Permaglide Bush
21	8626	4	Pin Keeper
22	8926-1	4	Plug RHS 25mm
23	9792	4	Pin
24	11492-3	4	Tab Washer
25	11695	1	Handrail Latch Left
26	11695-3	2	Latch Holding Ring
27	12709-10	2	Rollout Deck Slide Pad
28	13122-11	2	External Roller
29	13122-12	2	Stop - Roll Out
30	13122-14	4	Wear Pad - Internal
31	13128	1	Rollout Frame Weld
32	13155	2	Platform Floor
33	13262	1	Handrail Left Front
34	13264	1	Right Hand Rail
35	13268	1	Left Hand Rail
36	13841	1	Handrail Right Front
37	13871	1	Step Weld
38	13921	1	Control Mount
39	14023	1	Control Box Assy- Upper SR V4
40	14055	1	Roll Out Deck Weld SRxx55
41	14056	1	Handrail Front
42	60027-067N	26	Rivet 1/8 x 5/32
43	60030-198	2	1/4" Fender Washer
44	302544	12	Pin & Lock
45	562386	1	Literature Compartment
46	5560179	4	Flat Washer-Special
47	11695R	1	Handrail Latch Right
48	14057A	1	Handrail - Entry End

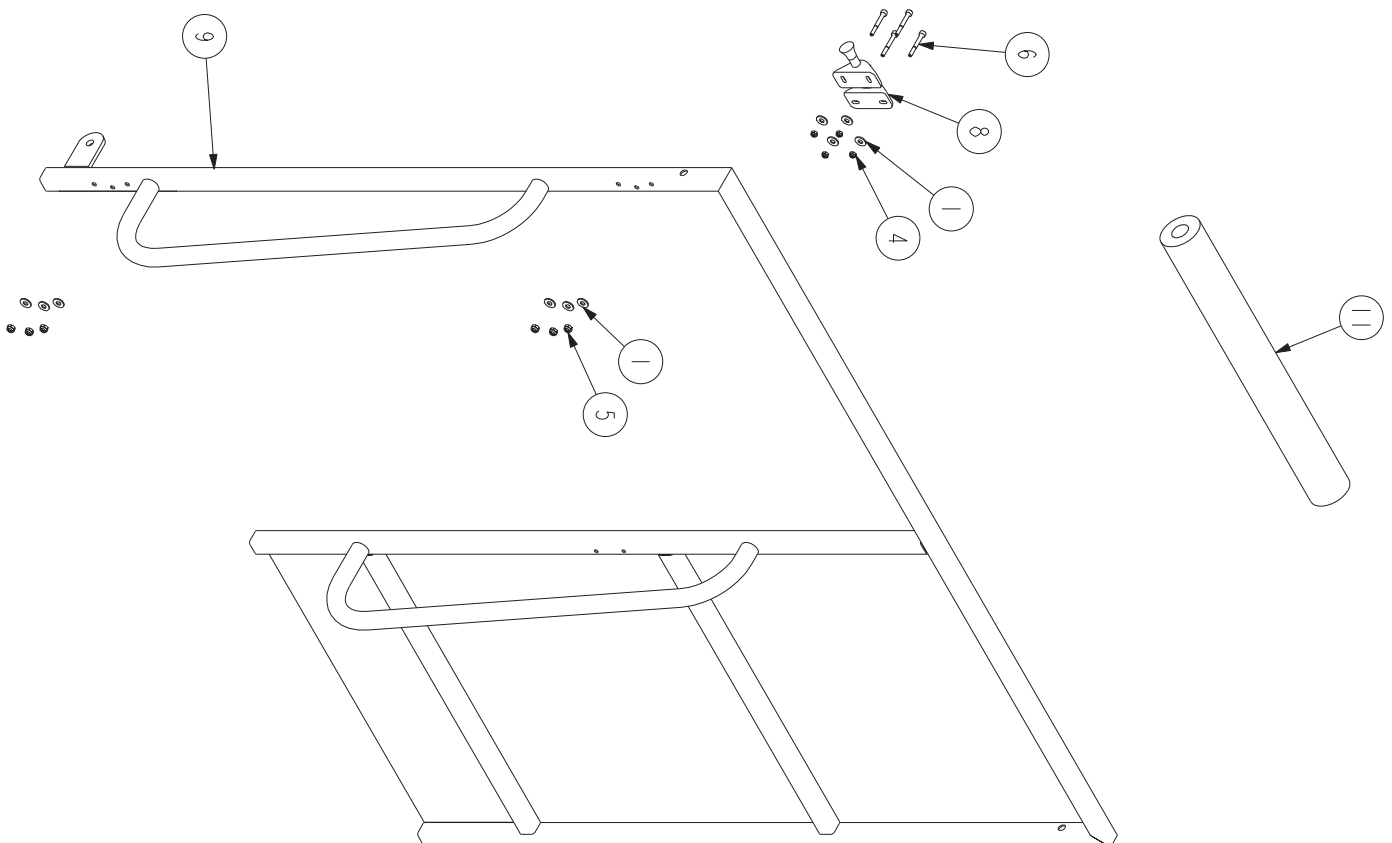
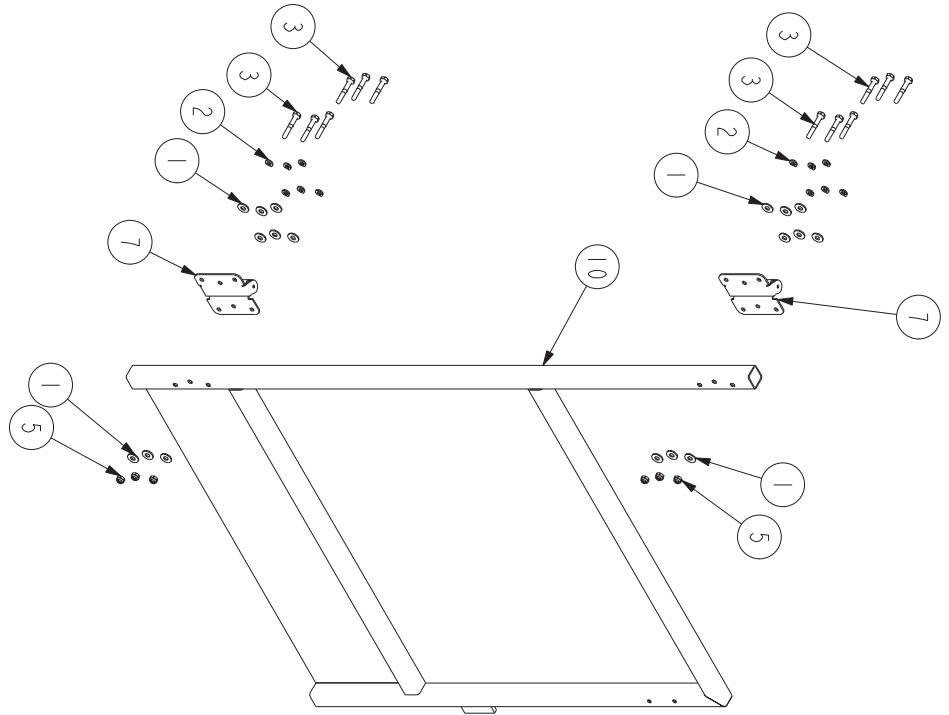
Platform Assembly After Serial Numbers S2255RT-07-00109 & S2755RT-07-000104



Platform Rear Handrail Assembly After Serial Numbers S2255RT-07-000109 & S2755RT-07-000104

Item	Part No.	Qty.	Description
0	14057A	1	Platform Rear Handrail Assembly
1	3603-06	28	Plain Washer
2	3605-06	12	Spring Washer
3	3610-06040	12	Metric Bolt
4	3611-05	4	Metric Nyloc Nut
5	3611-06	12	Metric Nyloc Nut
6	3613-05040	4	Socket Head Cap Screw
7	7495	2	Spring Hinge
8	13909	1	Latch, Magnetic Slam
9	14057	1	Hand Rail Weld Entry SRxx55
10	14058	1	Handrail- Gate
11	9980003	1	Foam Pipe Rap

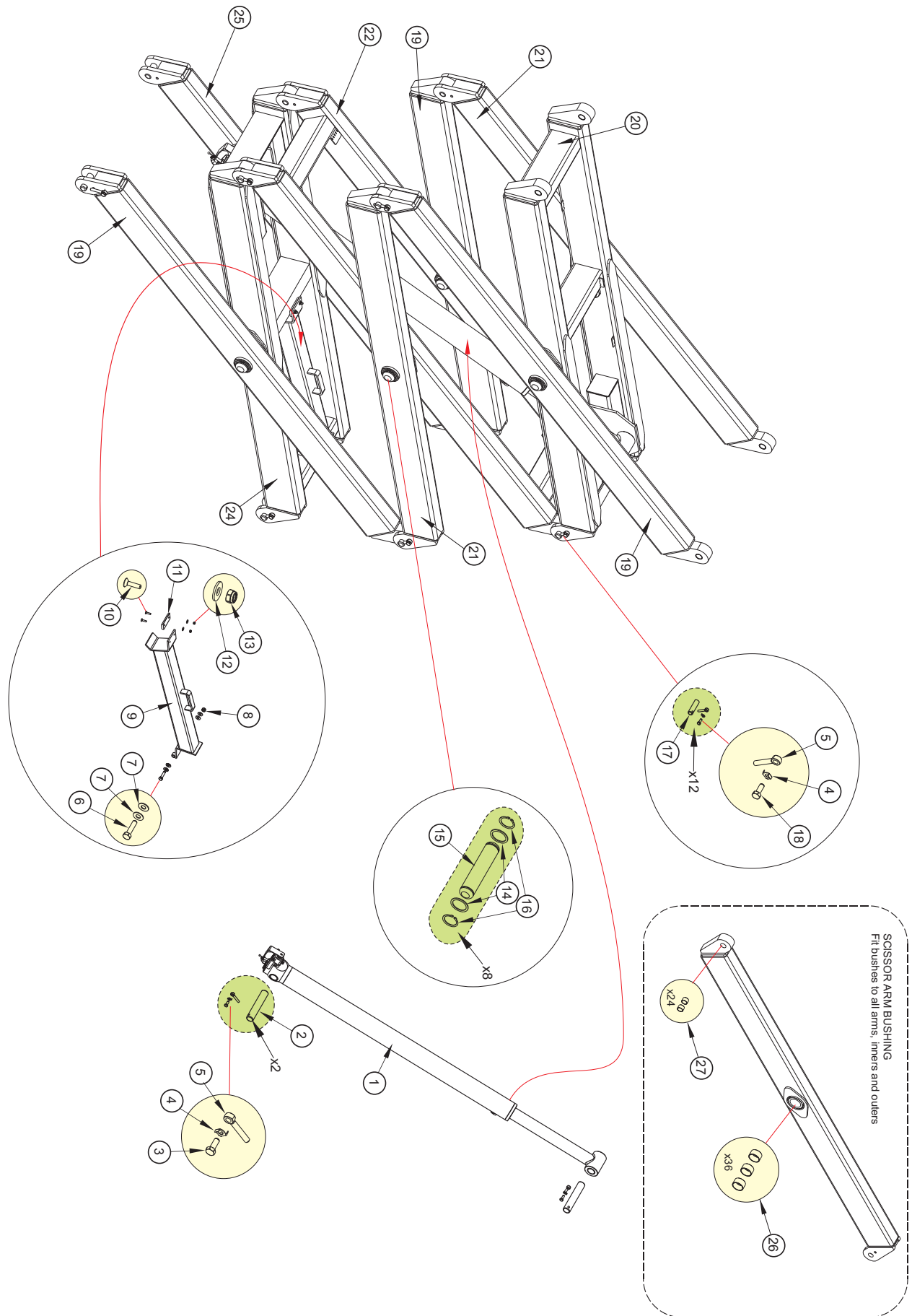
Platform Rear Handrail Assembly After Serial Numbers S2255RT-07-000109 & S2755RT-07-000104



S2255RT Scissor Stack Assembly

Item	Part No	Qty	Description
0	13893-01	1	S2255RT Scissor Stack Assembly
1	13906-03	1	Cylinder Assembly
2	9292	2	Pin
3	3610-10020	2	Metric Bolt
4	11492-3	10	Locktab, M10
5	8626	10	Pin Keeper
6	3610-10120	1	Metric Bolt
7	3603-10	4	Plain Washer
8	3611-10	1	Metric Nylock Nut
9	11380	1	Safety Prop Weld
10	3606-06025	2	Cap Screw
11	11143-2	1	Wear Pad
12	3603-06	2	Plain Washer
13	3611-06	2	Metric Nylock Nut
14	3629-5062L	12	Washer
15	11804	6	Scissor Pivot Pin
16	3619-5	12	Circlip
17	8699	8	Pin
18	3610-10025	8	Metric Bolt
19	12529	3	Arm, Outer, Mid Right Hand Weld
20	12621	1	Arm, Inner Upper Weld
21	12530	2	Arm, Outer, Midleft Hand Weld
22	12906	1	Arm, Inner, Mid Weld
24	13823	1	Arm, Inner, Lower Weld
25	12713	1	Arm, Outer, Lower Weld
26	3624-2	36	Bush
27	3624-3	24	Bush

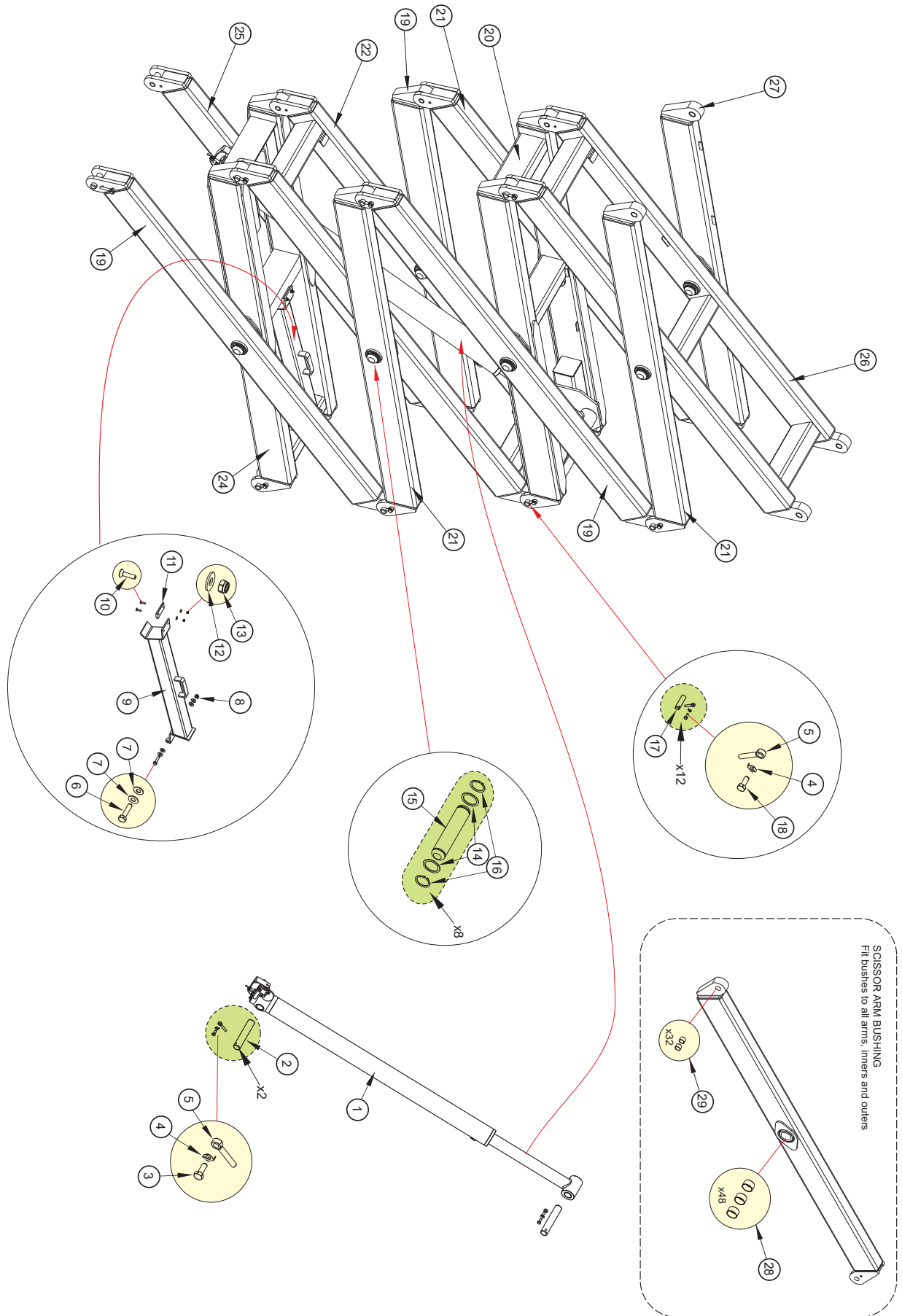
S2255RT Scissor Stack Assembly



S2755RT Scissor Stack Assembly

Item	Part No	Qty	Description
0	13893-02	1	S2755RT Scissor Stack Assembly
1	13906-03	1	Cylinder Assembly
2	9292	2	Pin
3	3610-10020	2	Metric Bolt
4	11492-3	14	Locktab
5	8626	14	Pin Keeper
6	3610-10120	1	Metric Bolt
7	3603-10	4	Plain Washer
8	3611-10	1	Metric Nylock Nut
9	11380	1	Safety Prop Weld
10	3606-06025	2	Cap Screw
11	11143-2	1	Wear Pad
12	3603-06	2	Plain Washer
13	3611-06	2	Nylock Nut
14	3629-5062L	16	Washer
15	11804	8	Scissor Pivot Pin
16	3619-5	16	Circlip
17	8699	12	Pin
18	3610-10025	12	Metric Bolt
19	12529	3	Arm, outer Mid Right Hand Weld
20	9332	1	Arm, Inner Upper Weld
21	12530	3	Arm, Outer, Mid Left Hand Weld
22	12906	1	Arm, Inner, Mid Weld
24	13823	1	Arm, Inner, Lower Weld
25	12713	1	Arm, Outer, Lower Right Weld
26	9331	1	Arm, Inner, Upper Fourth Stage
27	9502	1	Arm, Outer, Upper Weld
28	3624-2	48	Bush
29	3624-3	32	Bush

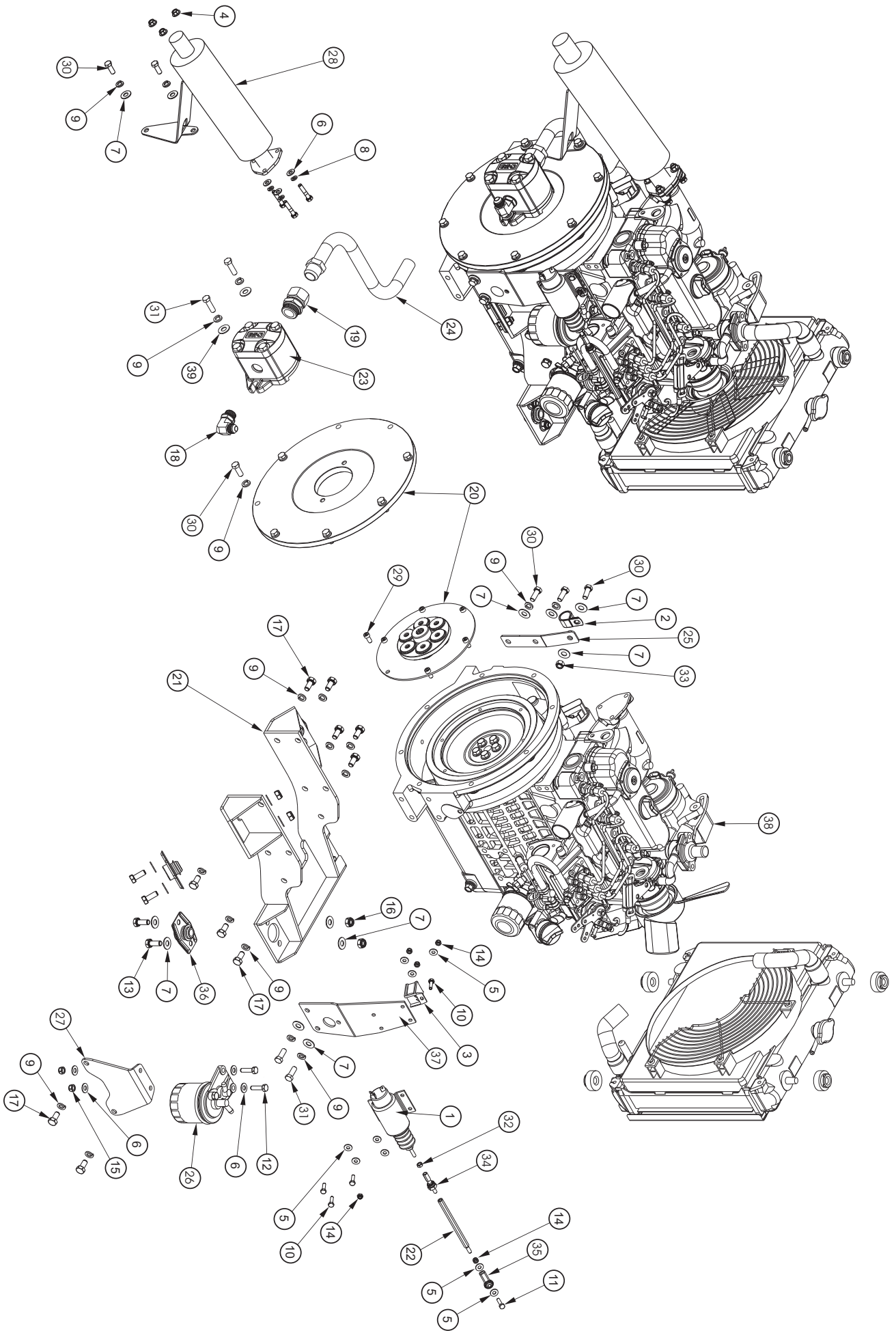
S2755RT Scissor Stack Assembly



Kubota D902 T3 Engine Assembly

Item	Part No	Qty	Description
0	12960	1	Kubota D902 T3 Engine Assembly
1	304-0174	1	Solenoid 12V
2	2022-005	1	Clamp Cushion 1"
3	2065-002	1	Plug In Relay Base
4	3602-08	3	Hex Nut
5	3603-06	9	Plain Washer
6	3603-08	7	Plain Washer
7	3603-10	24	Plain Washer
8	3605-08	3	Spring Washer
9	3605-10	25	Spring Washer
10	3610-06020	4	Metric Bolt
11	3610-06025	1	Metric Bolt
12	3610-08030	2	Metric Bolt
13	3610-10025	8	Metric Bolt
14	3611-06	5	Metric Nylock Nut
15	3611-08	2	Metric Nylock Nut
16	3611-10	8	Metric Nylock Nut
17	3617-10020	10	Bolt
18	7031-004	1	Adaptor, 3/4" JICM -> 7/8" UNO, Elbow 90deg
19	7098-7	1	Adaptor, 1 & 5/16" JICF -> 1 & 1/16" UNO, Straight
20	12956	1	Coupling, SAE 9 Spline
21	12961	1	Engine Cradle Weld
22	13023	1	Throttle Lever, D902
23	13049	1	Pump, SAE-A, 9 Spline
24	13074	1	Pipe, Pump Suction
25	13074-5	1	Support, For Suction Pump
26	13086-01	1	Fuel Filter
27	13095	1	Fuel Filter Bracket
28	13097	1	Exhaust Weldment
29	13104-0510	6	Capscrew 5/16" UNC - 5/8"
30	60017-007	13	Bolt, 3/8" UNC x 1"
31	60017-010	2	Bolt, 3/8" UNC x 1 1/4"
32	60021-008	1	Nut, 1/4" NF
33	60042-051N	1	Nut, Nylock, UNC 3/8"
34	2650001	1	Swivel, Inline
35	2690004	1	Rod End
36	7630208	4	Engine Mount
37	13022	1	Throttle Solenoid Bracket
38	13086	1	Engine, Kubota D902
39	3603-10H	2	Washer, M10

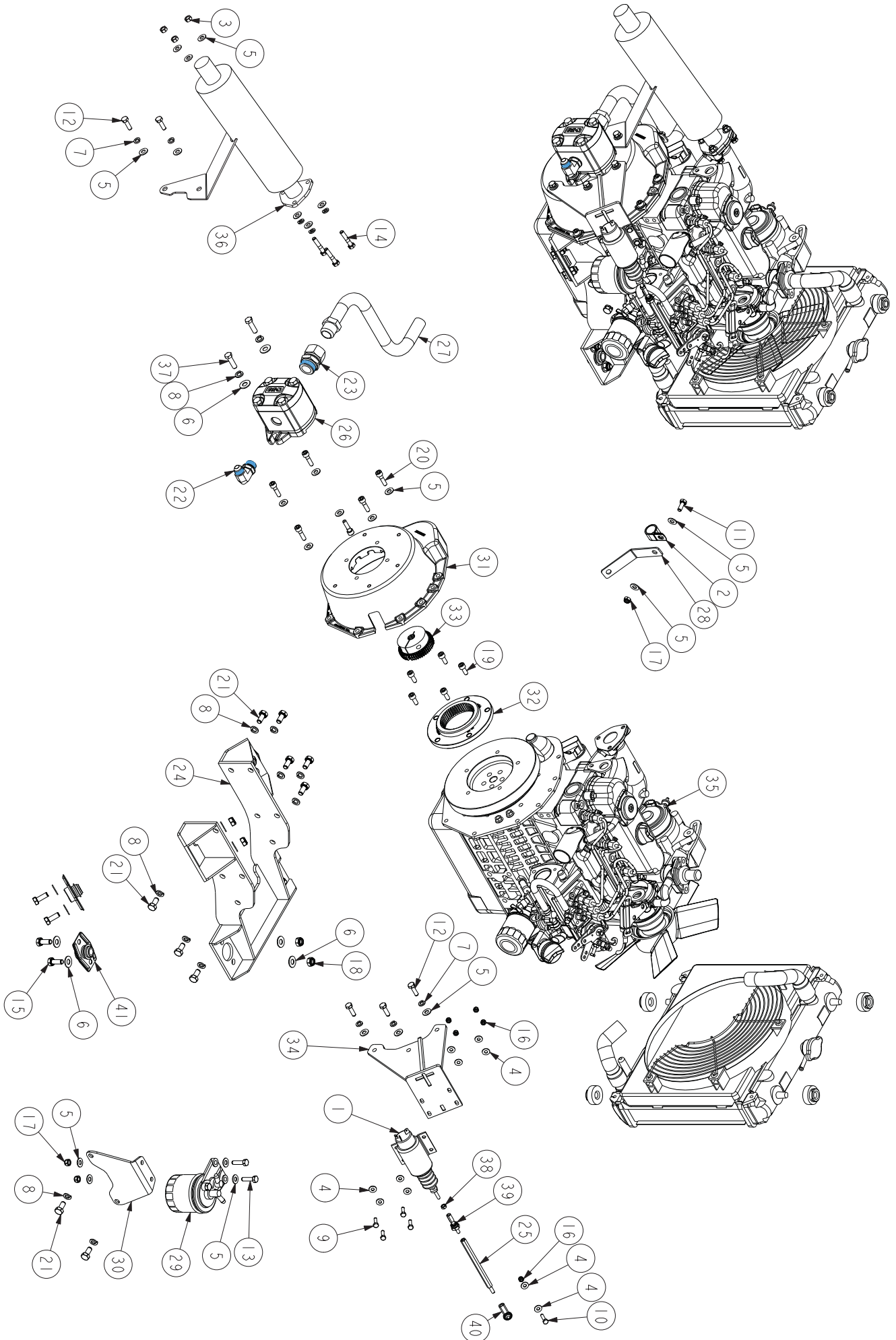
Kubota D902 T3 Engine Assembly



Kubota D902 T4 Engine Assembly

Item	Part No.	Qty.	Description
0	14043	1	Kubota D902 T4 Engine Assembly
1	304-0174	1	Solenoid 24V
2	2022-005	1	Clamp Cushion 50MM #CL-33
3	3602-08	3	Metric Hex Nut
4	3603-06	10	Plain Washer
5	3603-08	23	Plain Washer
6	3603-10	18	Plain Washer
7	3605-08	8	Spring Washer
8	3605-10	12	Spring Washer
9	3610-06020	4	Metric Bolt
10	3610-06025	1	Metric Bolt
11	3610-08020	1	Metric Bolt
12	3610-08025	5	Metric Bolt
13	3610-08030	2	Metric Bolt
14	3610-08040	3	Metric Bolt
15	3610-10025	8	Metric Bolt
16	3611-06	5	Metric Nyloc Nut
17	3611-08	3	Metric Nyloc Nut
18	3611-10	8	Metric Nyloc Nut
19	3613-08020	5	Socket Head Cap Screw
20	3613-08030	6	Socket Head Cap Screw
21	3617-10020	10	Metric Bolt
22	7031-004	1	Adapter - Elbow JICM->UNO 3/4 x 7/8
23	7098-7	1	Adapter - Straight UNO->JICF 1 5/16 x 1 5/16
24	12961	1	Engine Cradle Weld
25	13023	1	Throttle Lever - D902
26	13049	1	Pump- SAE-A, 9 Spline 10.3cc
27	13074	1	PIPE; PUMP SUCTION
28	13074-6	1	SUPPORT, for Suction Pipe
29	13086-01	1	Fuel Filter, Kubota 15224-43013
30	13095	1	Fuel Filter Bracket- Kubota D902
31	13978-01	1	Bell Housing - KEA Adapter to SAE A Pump
32	13978-02	1	Flywheel Adapter - 6.5in
33	13978-03	1	Spline Adapter - 9 Spline Pump
34	13986	1	RPM Solenoid Mount Bracket
35	14004	1	Engine - Diesel, Kubota D902 Tier 4
36	14044	1	Exhaust Weld- SRxx55, D902 T4
37	60017-010	2	1" X 3/8 UNC Bolt
38	60021-008	1	1/4" NF Hex Nut
39	2650001	1	Swivel Inline
40	2690004	1	Rod End
41	7630208	4	Engine Mount

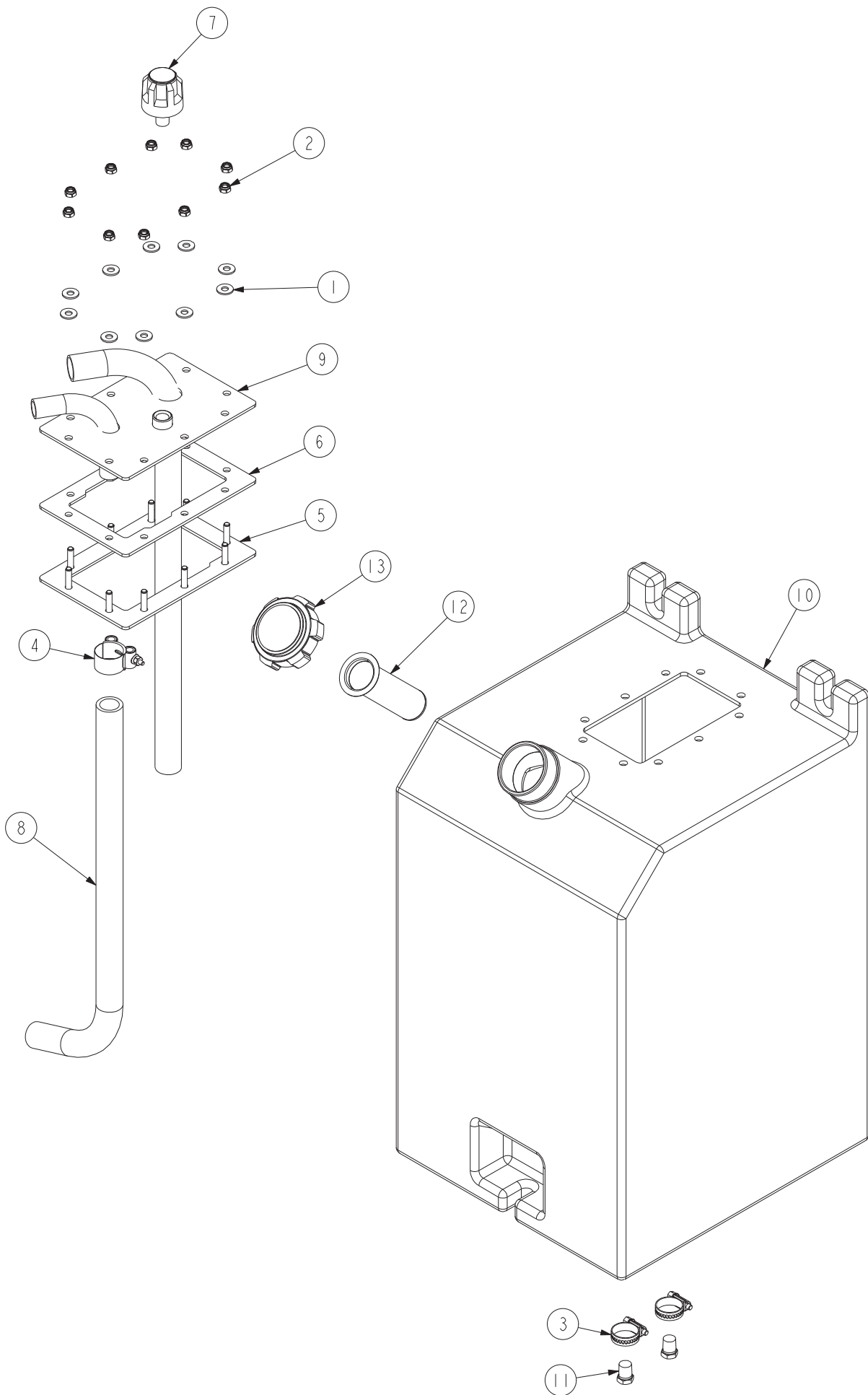
Kubota D902 T4 Engine Assembly



Hydraulic Oil Tank Assembly

Item	Part No.	Qty.	Description
0	13106-5A	1	Hydraulic Oil Tank Assembly
1	3603-06	10	Plain Washer
2	3611-06	10	Metric Nyloc Nut
3	3618-11	2	Hose Clamp 11-25mm ZP
4	3618-26	1	Hose Clamp 26-28mm ZP (Pass.)
5	11430-1	1	Base Plate Weld
6	11430-5	1	Gasket
7	11487	1	Filter Breather
8	11558-8	1	Tank Inner Hose
9	12942	1	Top Plate Weld - Hyd Oil Tank
10	13106-5	1	Oil Tank- SRxx55
11	13108-04	2	Plug- 1/4 NPTM
12	605246	1	Strainer Hyd Tank Fill
13	605256	1	Cap, Vented

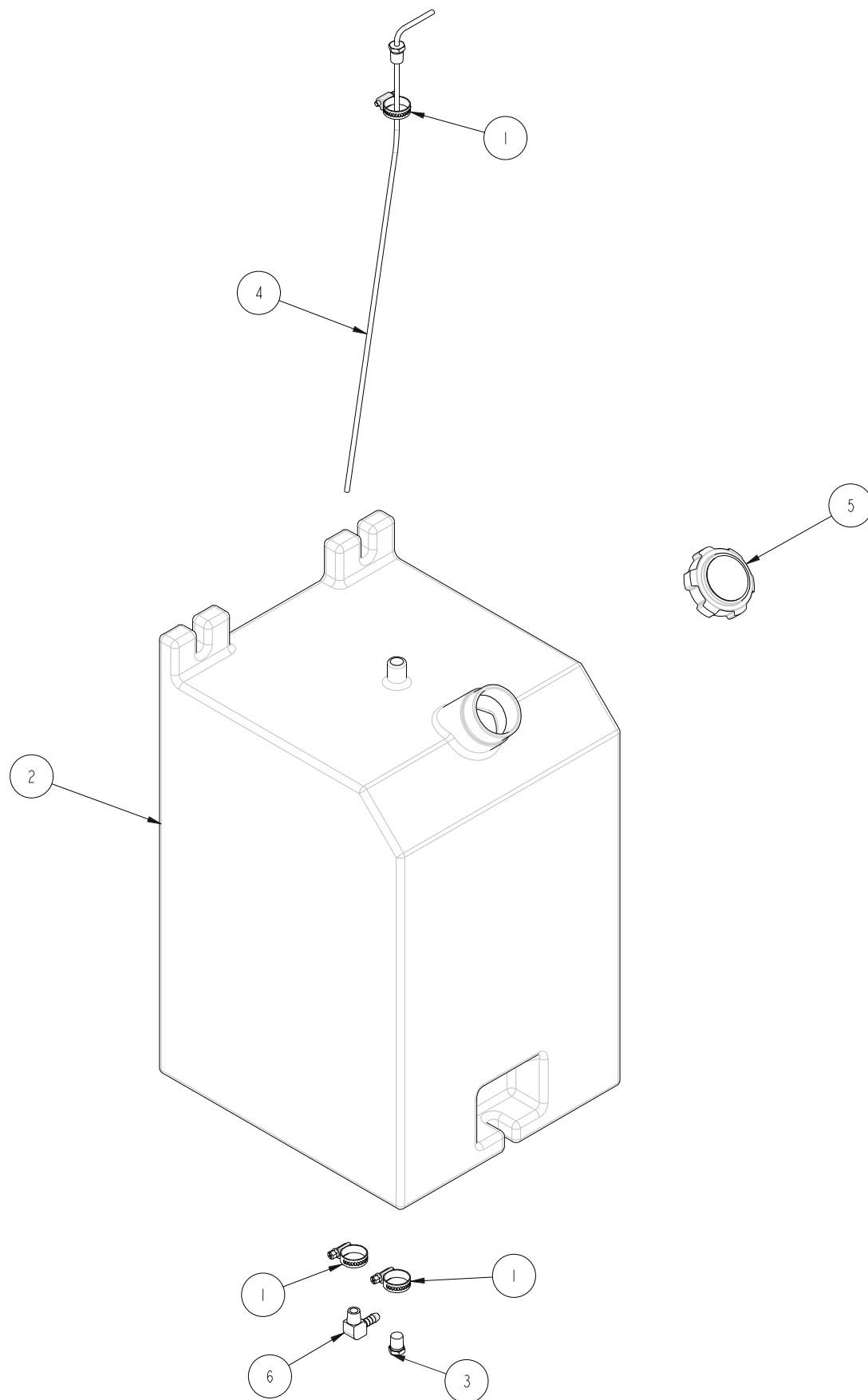
Hydraulic Oil Tank Assembly



Fuel Tank Assembly

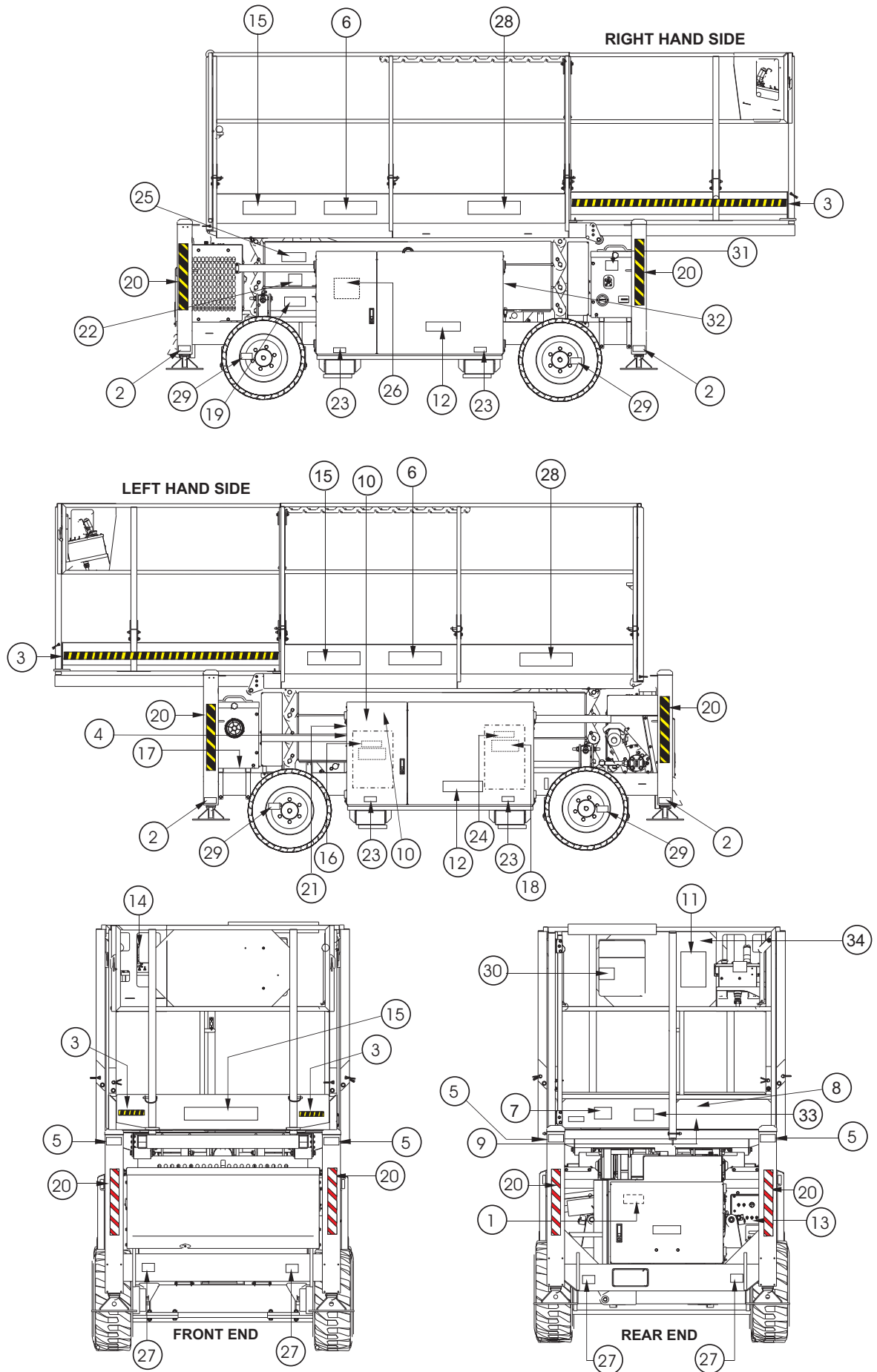
Item	Part No.	Qty.	Description
0	13106-2A	1	Diesel Fuel Tank Assembly
1	3618-11	3	Hose Clamp 11-25mm ZP
2	13106	1	Tank - Plastic 49L
3	13108-04	2	Plug- 1/4 NPTM
4	13109	1	Fuel Return Weld
5	605256	1	Cap, Vented
6	967309	1	Male Elbow 5/16" x 1/4" BSPT

Fuel Tank Assembly



Placards and Decals

Item	Part No	Qty	Description
1	13814	1	Decal, Engine Fuse/Relays
2	501453-000	4	Decal, Foot Crushing Hazard
3	96924-9	4m	Decal, Warning Stripes Yellow/Black
4	12833-4	1	Decal, Serial Number Plate
5	13111	4	Decal, Pinch Point, Small
6	13903-11	2	Decal, S2255RT
6	13903-12	2	Decal, S2755RT
7	12699-1	1	Decal, Rated Load S2255RT
7	12699-2	1	Decal, Rated Load S2755RT
8	007-3298	1	Decal, Machine Tip Over Hazard
9	45198-6	1	Decal, Limit Switch Sign
10	476706	2	Decal, Danger Explosive Fumes
11	12574	1	Decal, Safety Checklist
12	511099-000	2	Decal, Snorkel 150mm High
13	13839-01	1	Decal, Lower Control Box
14	13838-01	1	Decal, Upper Control Box
15	511101-000	3	Decal, Snorkel 100mm High
16	605726	1	Decal, Diesel Fuel Only
17	12753	1	Decal, Emergency Bleed Down
18	12814	1	Decal, Hydraulic Fluid
19	583656	1	Decal, Safety Prop Use
20	96924-9	3.6m	Decal, Warning Stripes Yellow/Black
21	300699	1	Decal, Operators Checklist
22	032-3897	1	Decal, Must Not Operate
23	621486	4	Decal, Forklift
24	302950	1	Decal, Hydraulic Oil Level
25	300700	1	Decal, Beware Descending Platform
26	13601-1	1	Decal, Emergency Operation
27	0083427	4	Decal, Lifting/Tie Down
28	511067-000	2	Decal, www.snorkellifts.com
29	0372061	4	Decal, Bolt Torque
30	562426	1	Decal, Operators Manual Enclosed
31	13089-2	1	Decal, 24V DC (When 24V Option Fitted)
32	13089-1	1	Decal, Diesel (When 24V Option Fitted)
33	13640-3	1	Decal, Fall Restraint Point
34	1843	1	Decal, Keep Clear Of Powerlines



Hydraulic Schematic 2-2
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Main Manifold, No Fittings 2-4
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Steer Cylinder 2-12
Axle Cylinder 2-13
V4 Main Lift Cylinder 2-14
V5 Main Lift Cylinder 2-15
V4 Stabiliser Cylinder 2-16
V5 Stabiliser Cylinder 2-17

Hose Part Numbers and Colour Codes

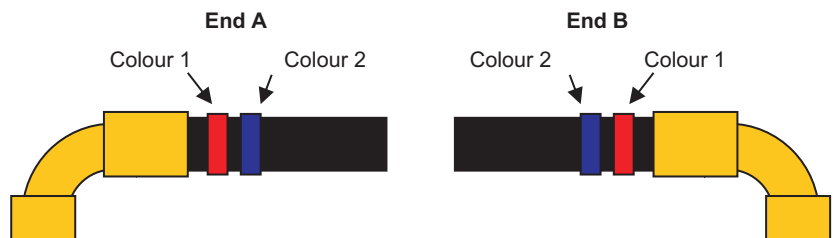
Snorkel Hose		Colour ID		Hose Use: Fitting A -> Fitting B
Part Number	Rev	Colour 1	Colour 2	
13768-02	A	Black	Yellow	Raise Stack: Main Manifold LCP -> Lift Cyl Extend
13768-01	A	Black	White	Lift Cyl Drain: Main Manifold LCR -> Lift Cyl Drain
13963-01	A	---	---	Main Manifold Return: Main Manifold Tank -> 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

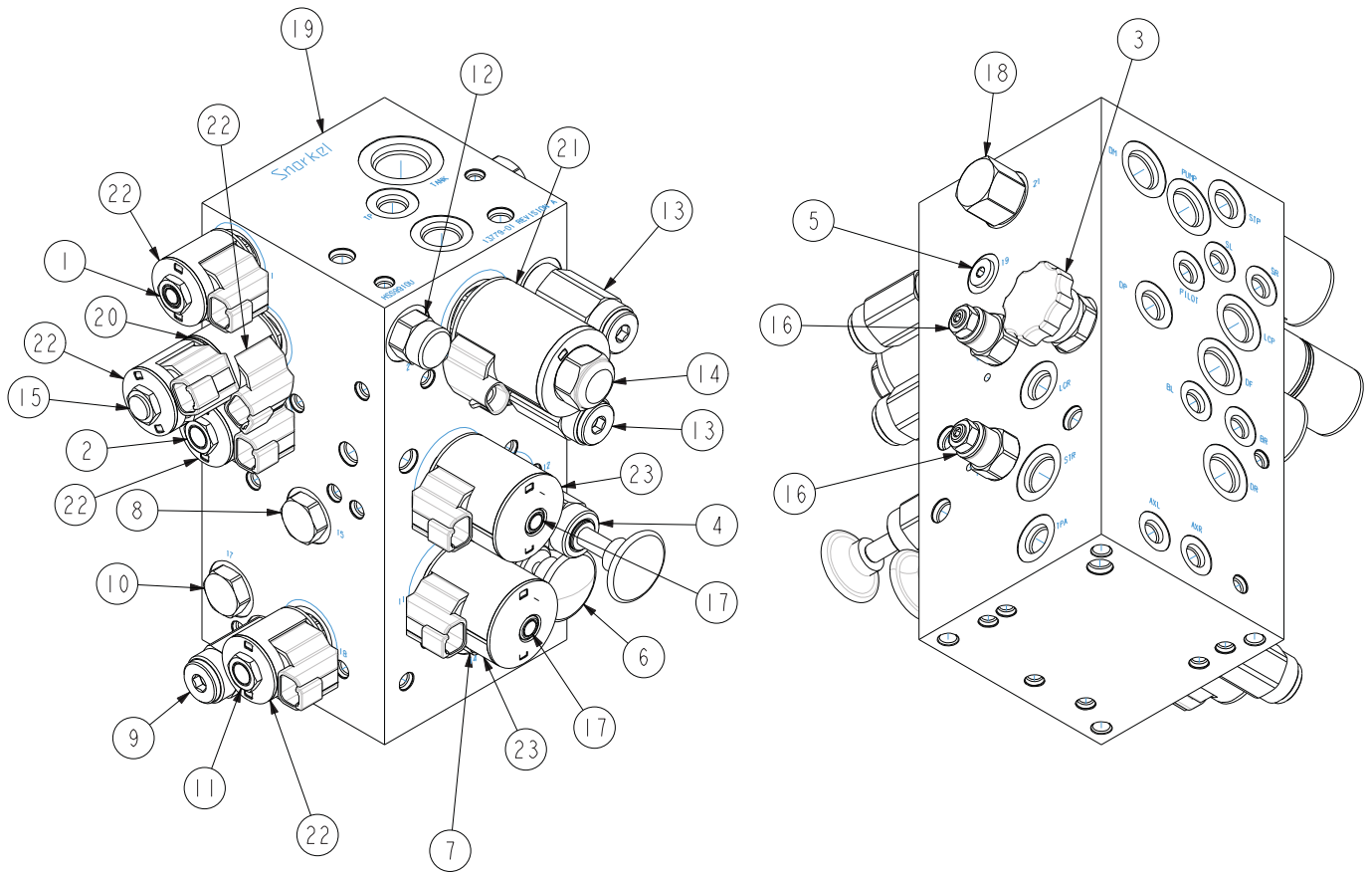
Hose tags are read from the fitting side of the hose intowards the hose.

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

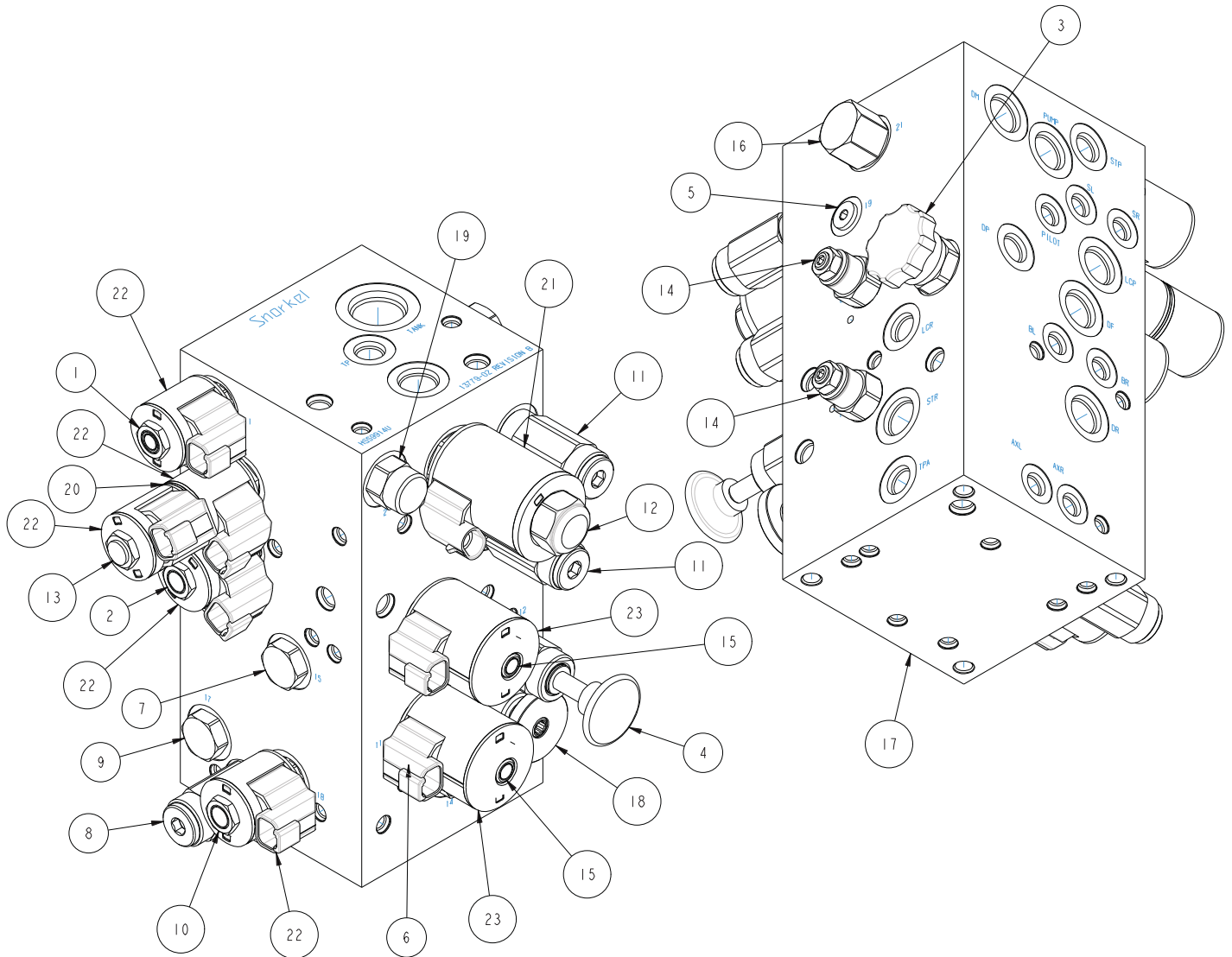


Main Manifold, No Fittings



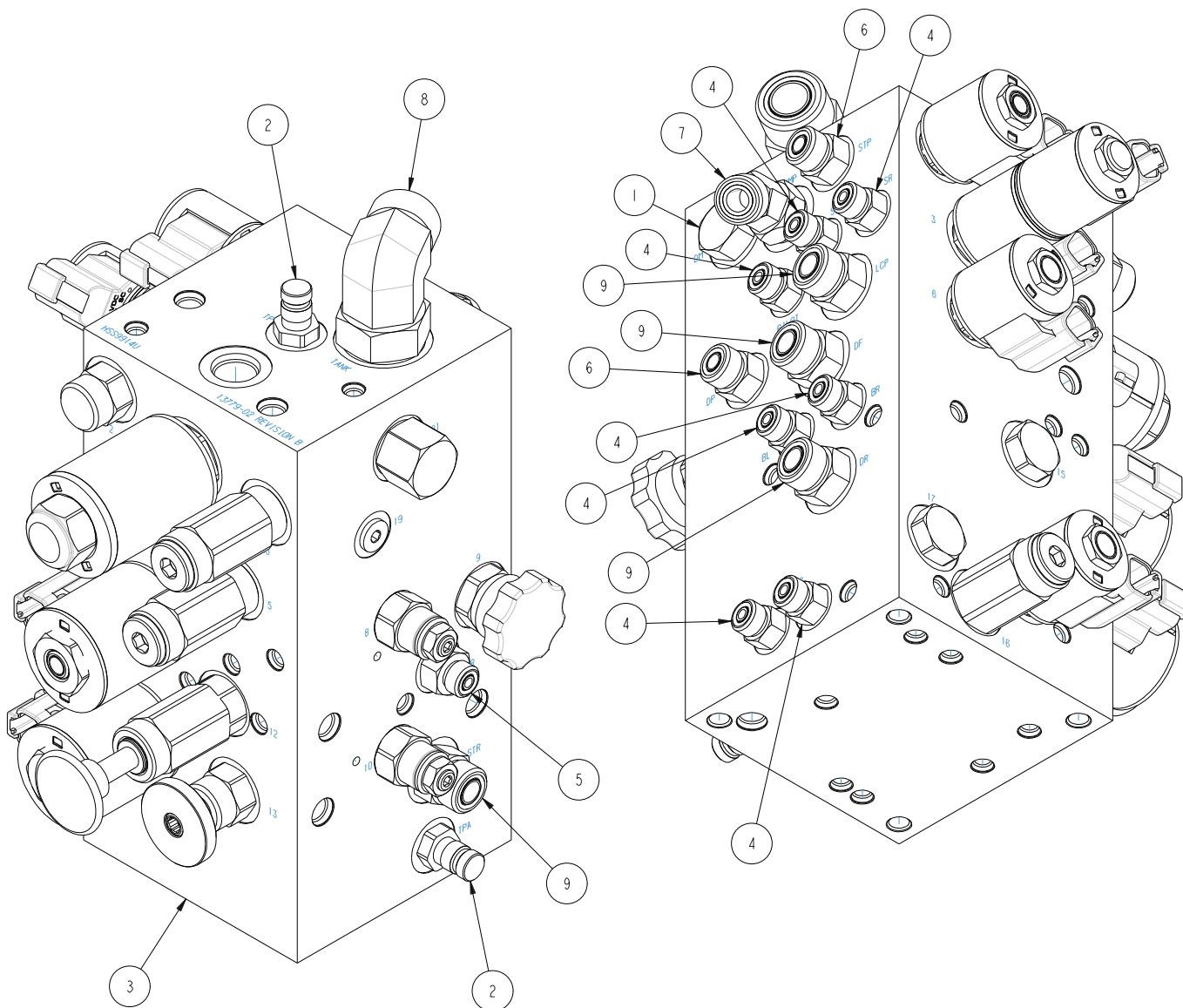
Item	Part No.	Qty.	Description
1	12567-1	1	Cartridge, Solenoid- Poppet, 2-Way, NC
2	12567-11	1	Cartridge, Solenoid- Spool, 3-Way
3	12567-15	1	Cartridge- Needle Valve
4	12567-19	1	Cartridge- Hand Pump
5	12567-2	1	Cartridge- Check Valve
6	12567-20	1	Cartridge- Manual Pull to Open
7	12567-21	1	Cartridge- Check, Pilot to Open
8	12567-22	1	Cartridge- Load Shuttle
9	12567-23	1	Cartridge- Pressure Reducing
10	12567-24	1	Cartridge- Flow Control, Orifice Check
11	12567-25	1	Cartridge, Solenoid- Spool, 3-Way
12	12567-3	1	Cartridge- Flow Regulator, Pressure Compensated
13	12567-8	2	Cartridge- Relief, Direct-Acting Poppet
14	12567-9	1	Cartridge- Proportional 2-Port, NC
15	12568-1	1	Cartridge, Solenoid- Spool, 4-Way, 3-Posn, Closed Center
16	13161-17	2	Cartridge- Counter Balance
17	13161-18	2	Cartridge, Solenoid- Poppet, 3-Port, NC
18	13161-28	1	Cartridge- Pressure Compensate & Flow Regulator
19	13779-01	1	Manifold Block- Main SR V4
20	13881-08	1	Coil Spacer- 08
21	13895	1	Coil - 70 Proportional Deutsch DT Connector
22	6019180	5	Coil - 08 12V Deutsch DT Connector
23	6019184	2	Coil - 10 12V Deutsch DT Connector

Main Manifold, No Fittings After Serial Numbers: S2255RT-07-171100145 & S2755RT-07-17100156



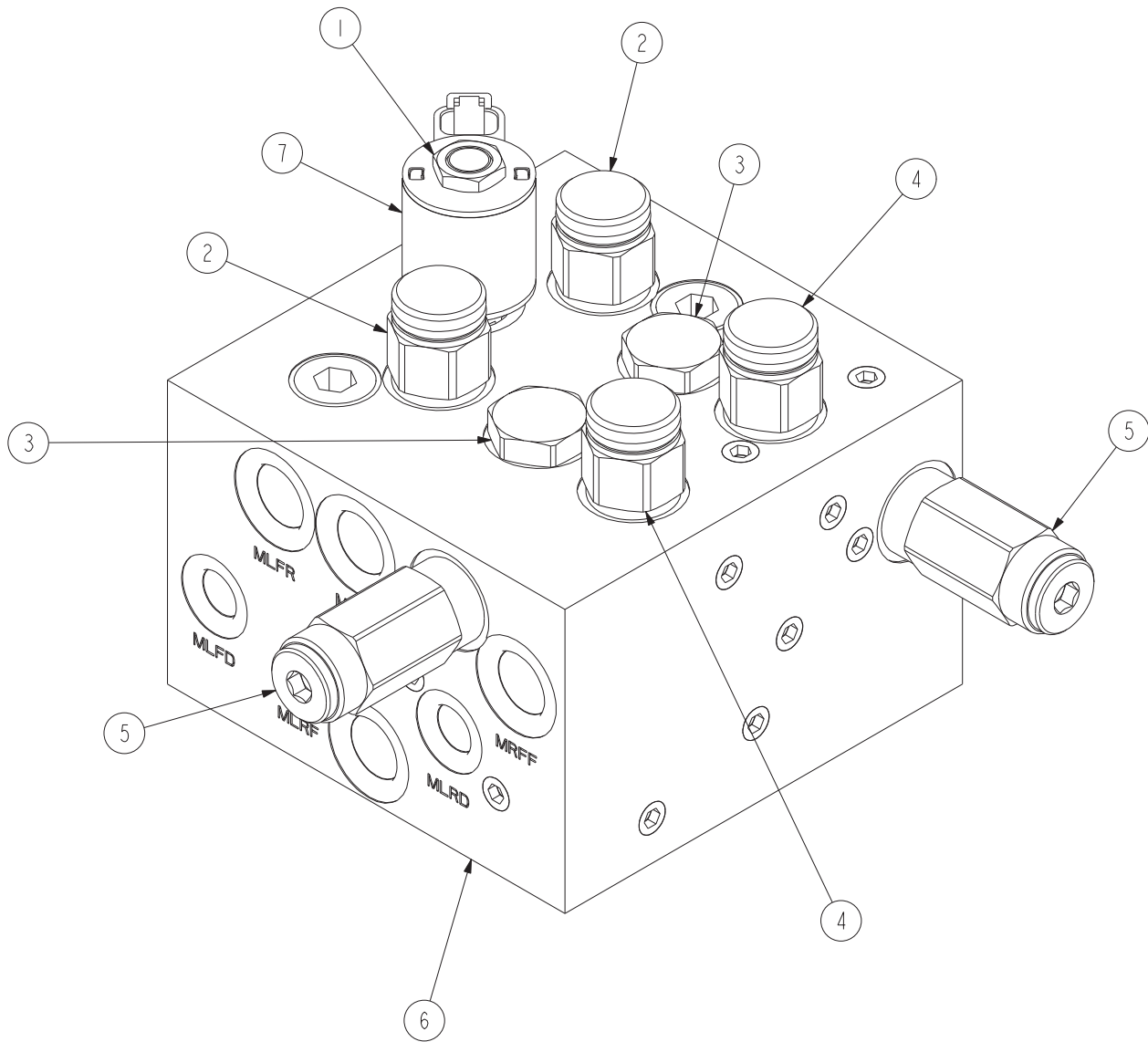
Item	Part No.	Qty.	Description
1	12567-1	1	Cartridge, Solenoid- Poppet, 2-Way, NC
2	12567-11	1	Cartridge, Solenoid- Spool, 3-Way
3	12567-15	1	Cartridge- Needle Valve
4	12567-19	1	Cartridge- Hand Pump
5	12567-2	1	Cartridge- Check Valve
6	12567-21	1	Cartridge- Check, Pilot to Open
7	12567-22	1	Cartridge- Load Shuttle
8	12567-23	1	Cartridge- Pressure Reducing
9	12567-24	1	Cartridge- Flow Control, Orifice Check
10	12567-25	1	Cartridge, Solenoid- Spool, 3-Way
11	12567-8	2	Cartridge- Relief, Direct-Acting Poppet
12	12567-9	1	Cartridge- Proportional 2-Port, NC
13	12568-1	1	Cartridge, Solenoid- Spool, 4-Way, 3-Posn, Closed Center
14	13161-17	2	Cartridge- Counter Balance
15	13161-18	2	Cartridge, Solenoid- Poppet, 3-Port, NC
16	13161-28	1	Cartridge- Pressure Compensate & Flow Regulator
17	13779-01	1	Manifold Block - Main SR V4
18	13779-02	1	Cartridge- Needle Valve
19	13779-03	1	Cartridge- Flow Regulator, Pressure Compensated
20	13881-08	1	Coil Spacer- 08
21	13895	1	Coil - 70 Proportional Deutsch DT Connector
22	6019180	5	Coil - 08 12V Deutsch DT Connector
23	6019184	2	Coil - 10 12V Deutsch DT Connector

Main Manifold, Fittings



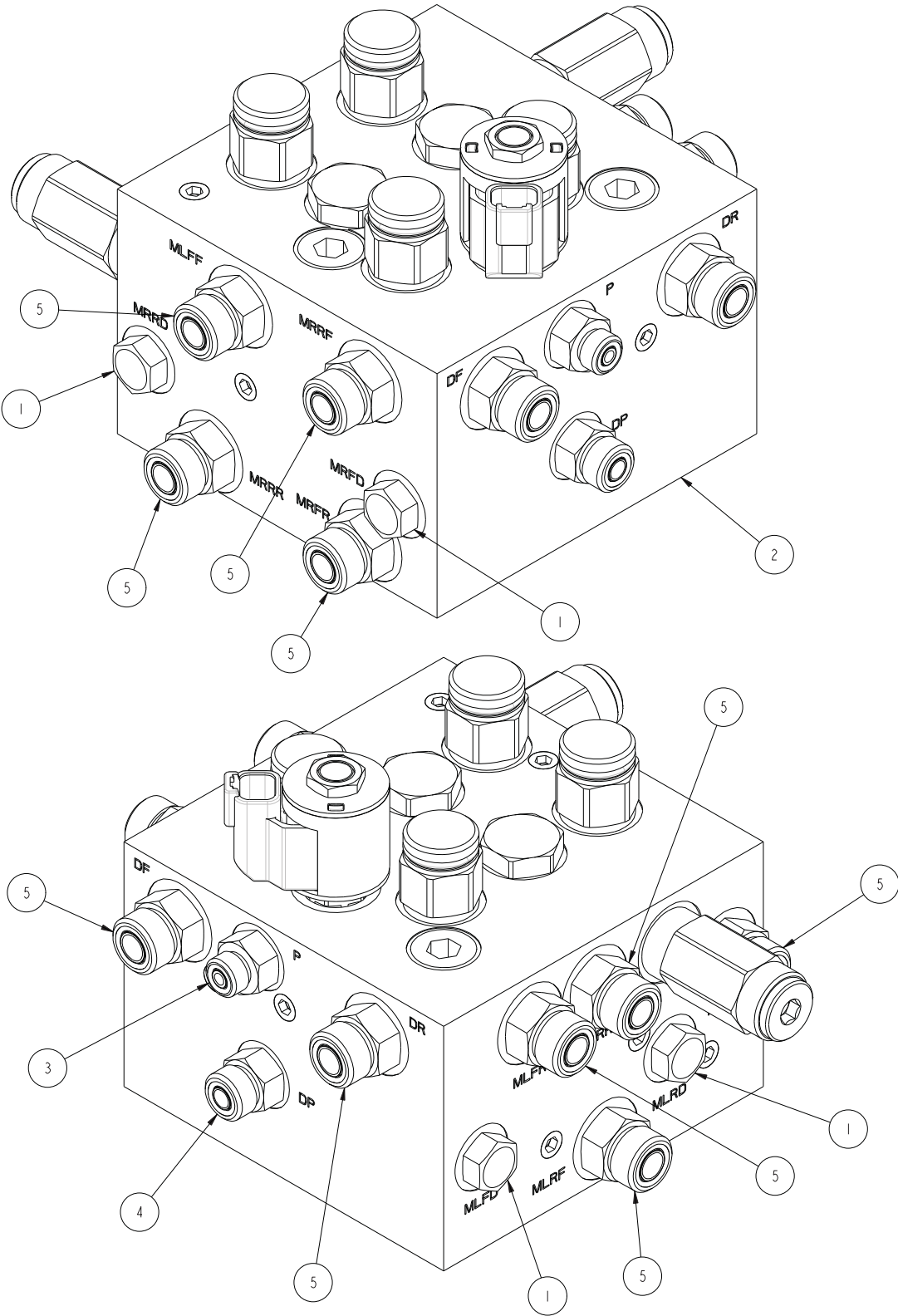
Item	Part No.	Qty.	Description
0	15088	1	Main Manifold Assembly, SRxx55
1	7035-002	1	Hyd Plug- SAE 08 (3/4 Thread)
2	10996-2	2	Test Point- UNO, 9/16
3	13779	1	Manifold- Main SR V4
4	100432-002	7	Hyd Fitting- Straight ORFS(04)-SAE(04)
5	100432-004	1	Hyd Fitting- Straight ORFS(04)-SAE(06)
6	100432-009	2	Hyd Fitting- Straight ORFS(06)-SAE(06)
7	100433-008	1	Hyd Fitting- 45 Elbow ORFS(08)-SAE(08)
8	100434-021	1	Hyd Fitting- 90 Elbow ORFS(12)-SAE(12)
9	512970-000	4	Hyd Fitting- Straight ORFS(08)-SAE(08)

4WD Manifold, No Fittings



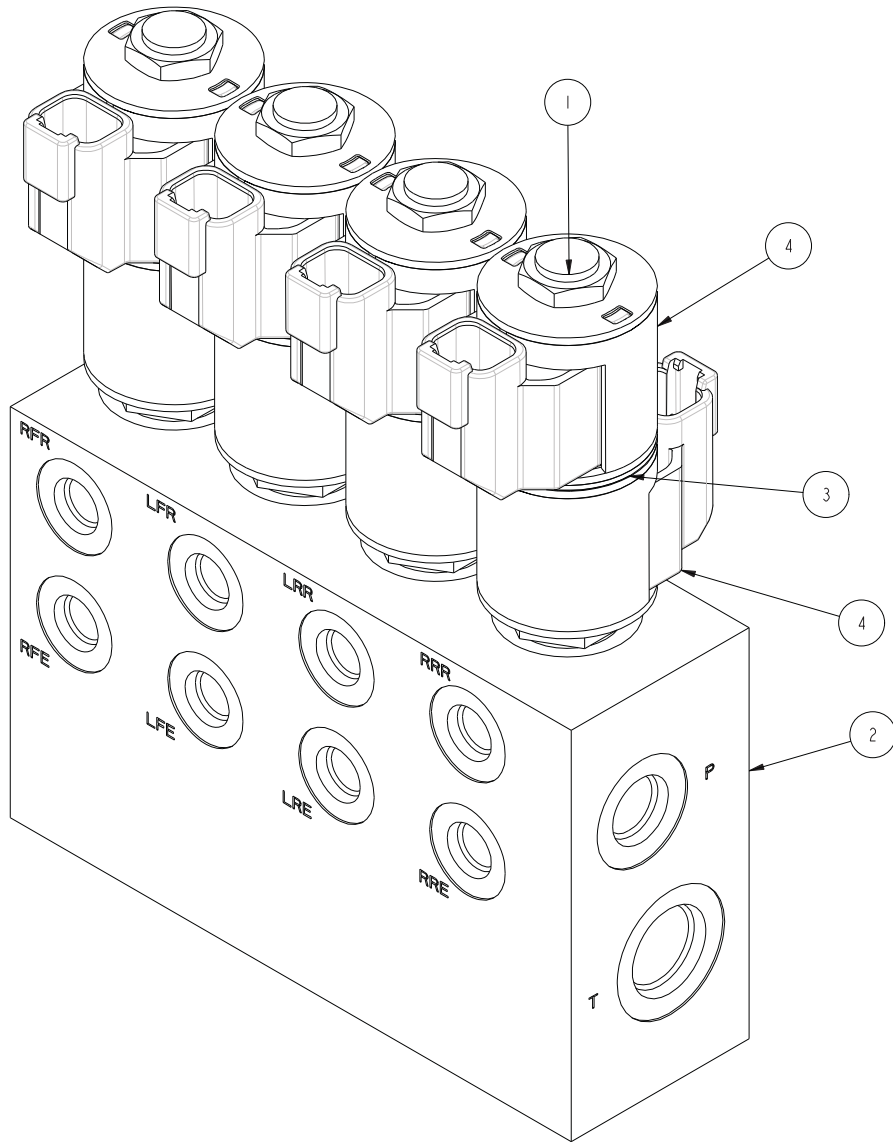
Item	Part No.	Qty.	Description
0	13780	1	4WD Manifold Assembly, No Fittings
1	12567-11	1	Cartridge, Solenoid- Spool, 3-Way
2	12569-2	2	Cartridge- Piloted, 2-Way, Spool NO
3	12569-3	2	Cartridge- Flow Divider/Combiner
4	12569-5	2	Cartridge- Piloted, 2-Way, Spool NC
5	12569-6	2	Cartridge- Relief, Pilot-Operated
6	13162	1	Manifold Block- 4WD SR
7	6019180	1	Coil - 08 12V Deutsch DT Connector

4WD Manifold, Fittings



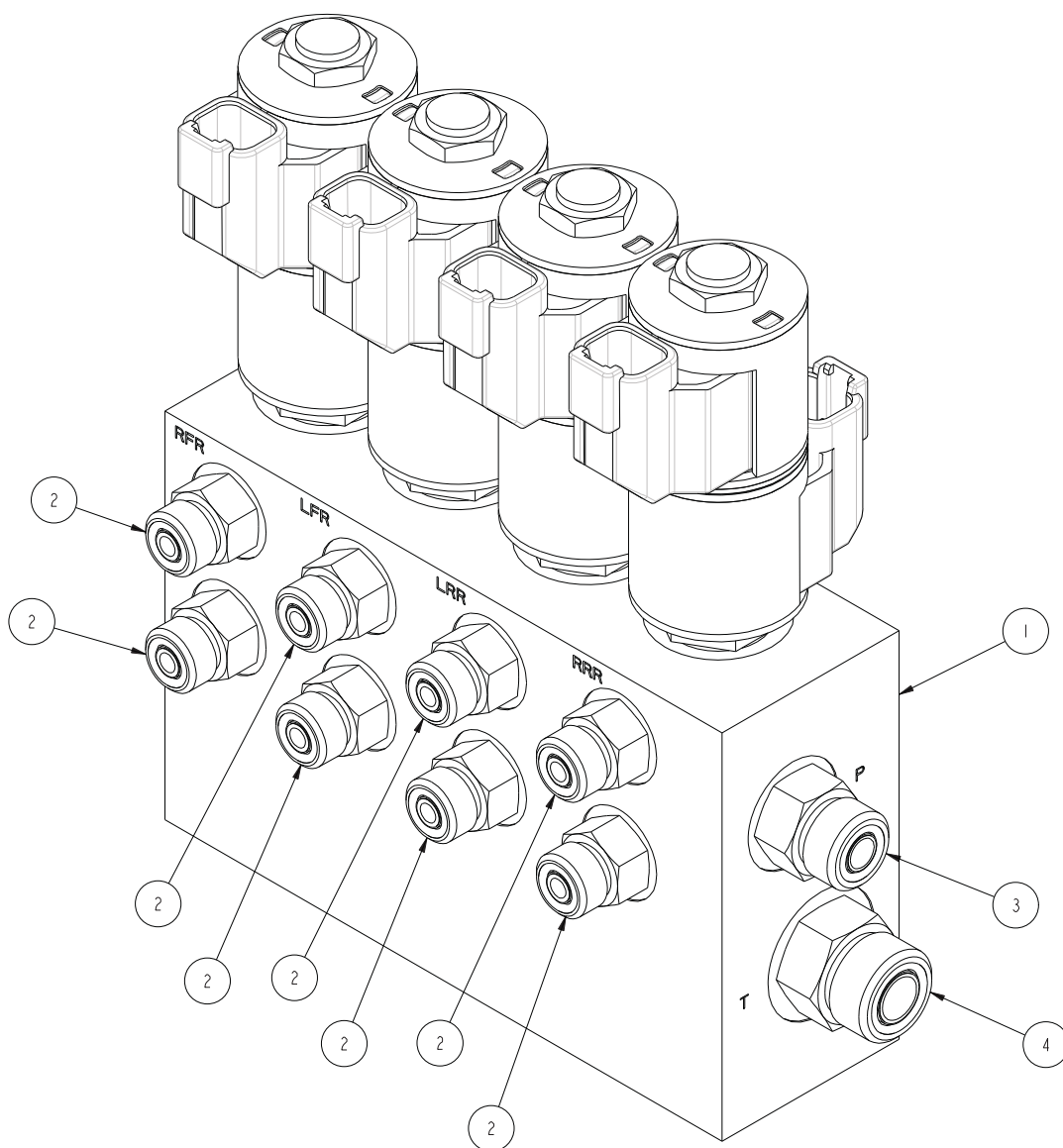
Item	Part No.	Qty.	Description
0	15089	1	4WD Manifold Assembly
1	7035-001	4	Hyd Plug- SAE 06 (9/16 Thread)
2	13780	1	Manifold- 4WD SR V4
3	100432-004	1	Hyd Fitting- Straight ORFS(04)-SAE(06)
4	100432-009	1	Hyd Fitting- Straight ORFS(06)-SAE(06)
5	512970-000	10	Hyd Fitting- Straight ORFS(08)-SAE(08)

Auto Stabiliser Manifold, No Fittings



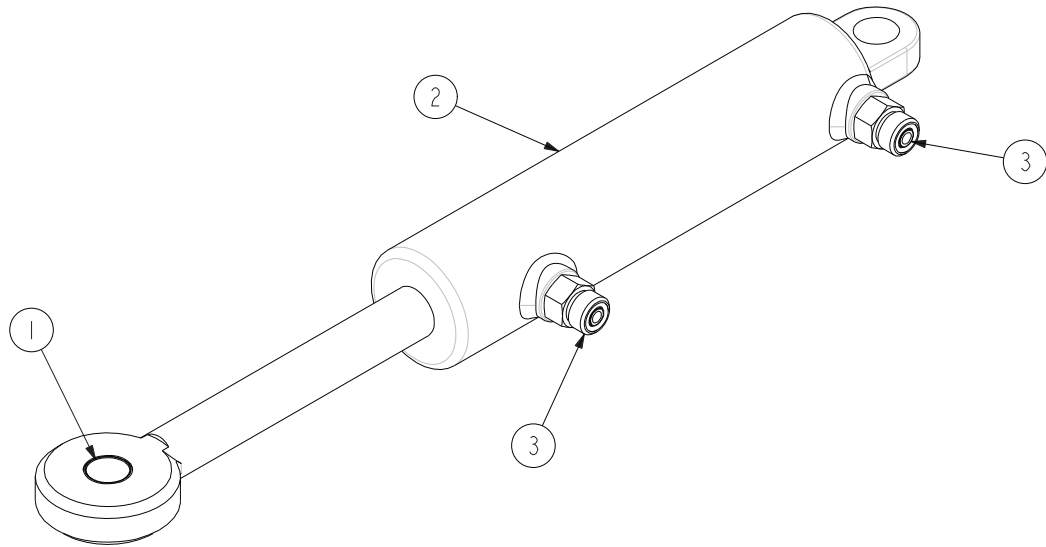
Item	Part No.	Qty.	Description
1	12568-1	4	Cartridge, Solenoid- Spool, 4-Way, 3-Posn, Closed Center
2	13781-01	1	Manifold Block- Stabiliser SR V4
3	13881-08	4	Coil Spacer- 08
4	6019180	8	Coil - 08 12V Deutsch DT Connector

Auto Stabiliser Manifold, Fittings



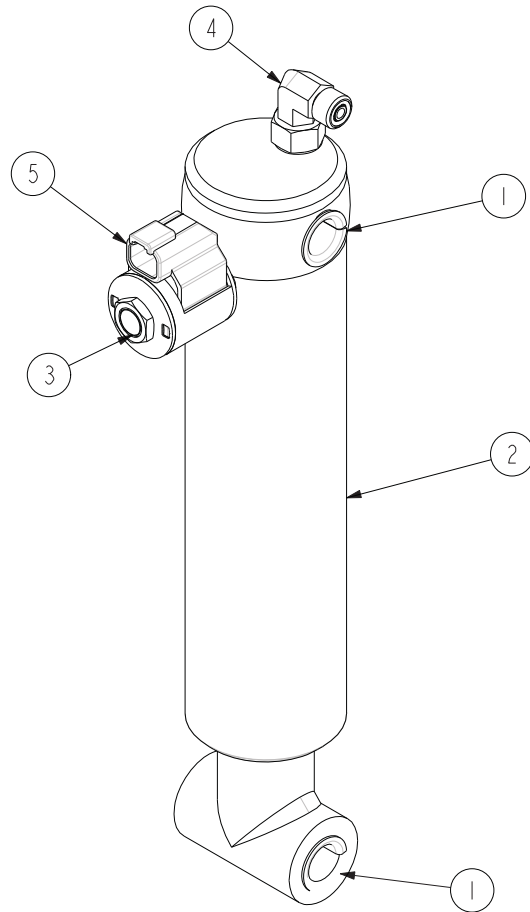
Item	Part No.	Qty.	Description
1	13781	1	Manifold- Stabiliser SR V4
2	100432-002	8	Hyd Fitting- Straight ORFS(04)-SAE(04)
3	100432-009	1	Hyd Fitting- Straight ORFS(06)-SAE(06)
4	512970-000	1	Hyd Fitting- Straight ORFS(08)-SAE(08)

Steer Cylinder Assembly



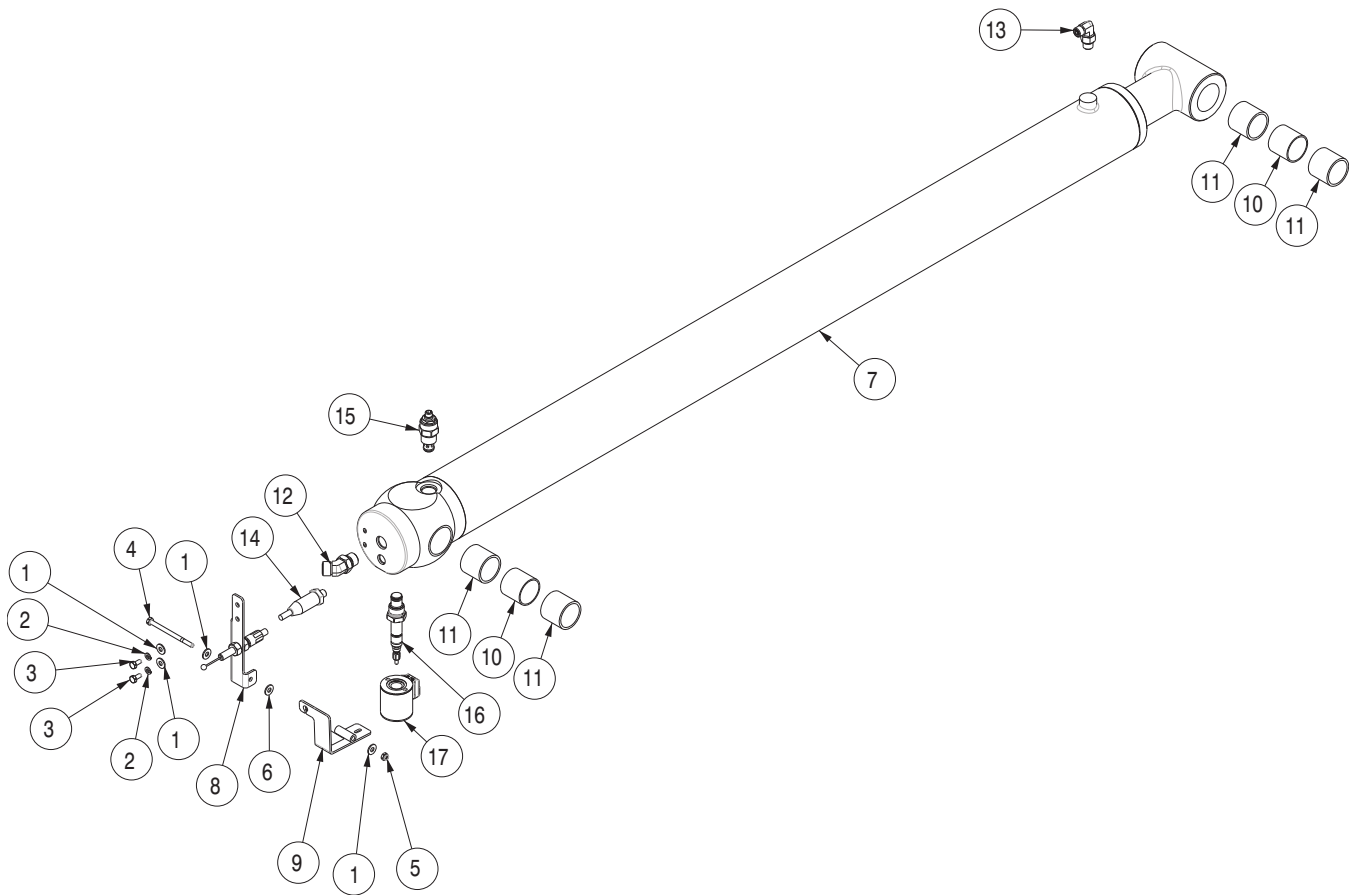
Item	Part No.	Qty.	Description
0	11699A	1	Cylinder Assembly- Steer
1	3624-27	1	Permaglide Bush
2	11699	1	Cylinder- Steer, SR
3	100432-002	2	Hyd Fitting- Straight ORFS(04)-SAE(04)
	11699K	1	Seal kit- Victor
	11699K-PB	1	Seal kit- PB
	11699K-UH	1	Seal kit- UH

Axle Cylinder Assembly



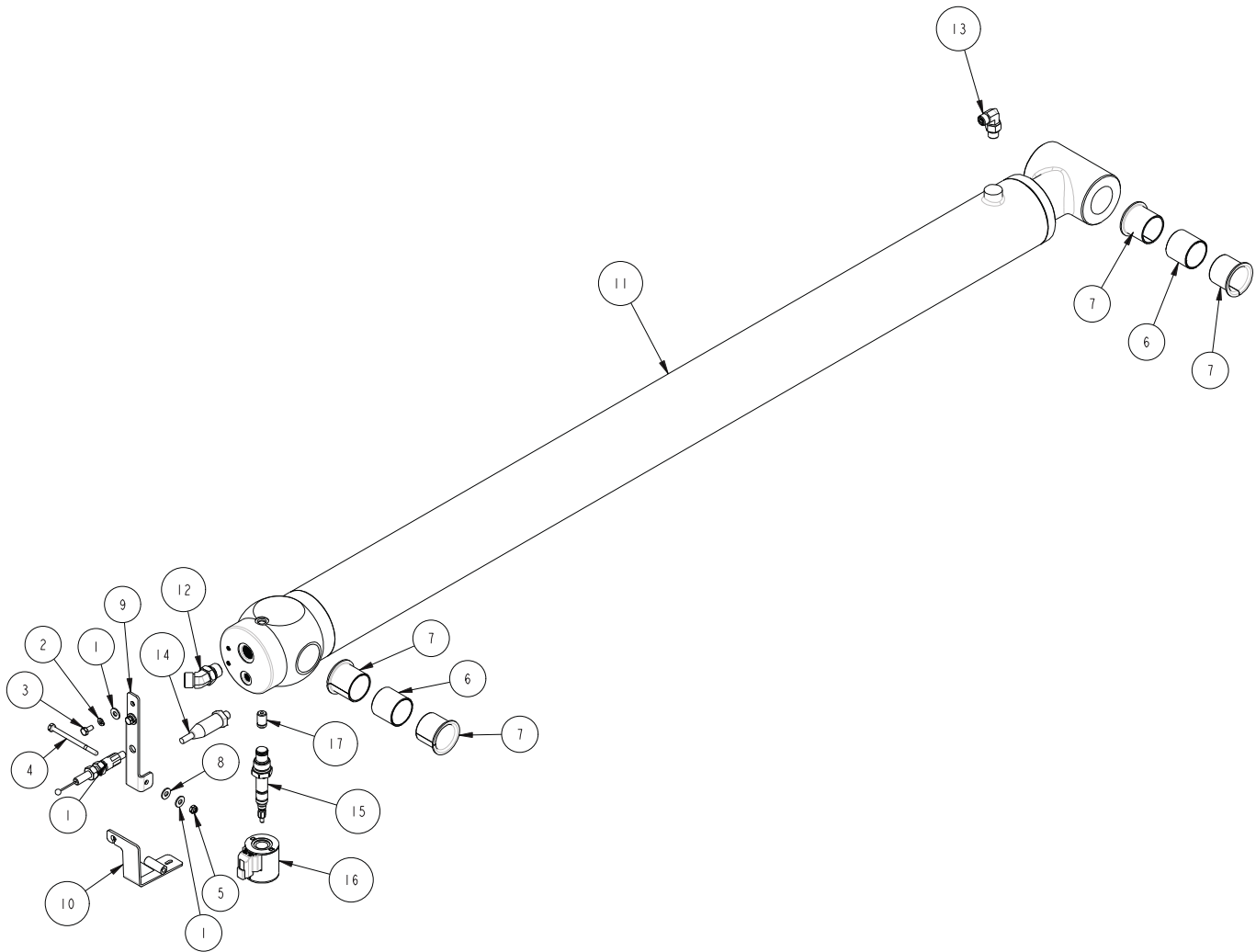
Item	Part No.	Qty.	Description
0	11642A	1	Cylinder Assembly- Axle
1	3626-3	4	Flanged Permaglides Bush
2	11642	1	Axle Cylinder
3	12835-1	1	Cartridge, Solenoid- Poppet, 2-Way, NC
4	100434-004	1	Hyd Fitting- 90 Elbow ORFS(04)-SAE(06)
5	6019180	1	Coil - 08 12V Deutsch DT Connector
	11642K	1	Seal kit- Victor
	11642K-PB	1	Seal kit- PB
	11642K-UH	1	Seal kit- UH

V4 Main Lift Cylinder Assembly



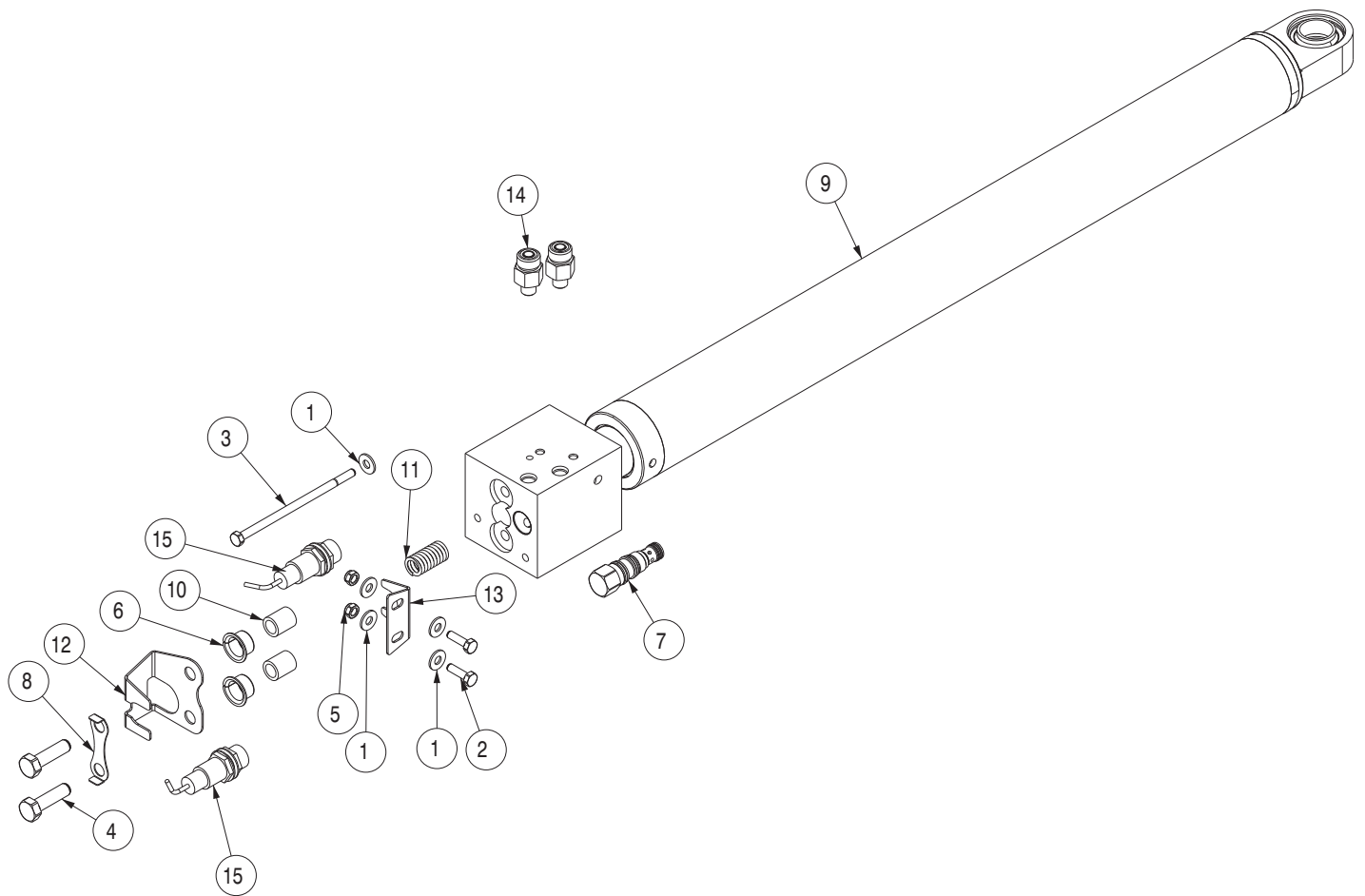
Item	Part No	Qty	Description
0	11687	1	Main Lift Cylinder V4 Assembly
1	3603-06	4	Plain Washer
2	3605-06	2	Spring Washer
3	3610-06012	2	Metric Bolt
4	3610-06085	1	Metric Bolt
5	3611-06	1	Metric Nylock Nut
6	3641-06	1	Nylon Washer
7	11687	1	SR Lift Cylinder
8	12647-1	1	Cylinder Lever Pivot Plate
9	12648	1	Valve Lever
10	13907	2	Bush Spacer
11	56122-6	4	Bushing
12	100433-008	1	Hyd Fitting - 45 Elbow ORFS(08) - SAE(08)
13	100434-004	1	Hyd Fitting - 90 Elbow ORFS(04) - SAE(06)
14	3030158	1	Pressure Transducer
15	6010833	1	Valve Cartridge, Adjustable
16	6018024	1	Solenoid Valve, 2 Way, NC, 20V
17	6019184	1	Coil - 10 12V Deutsch DT Connector
-	11687K	1	Seal Kit Victor
-	11687K-PB	1	Seal Kit PB
-	11687K-UH	1	Seal Kit UH

V5 Main Lift Cylinder Assembly



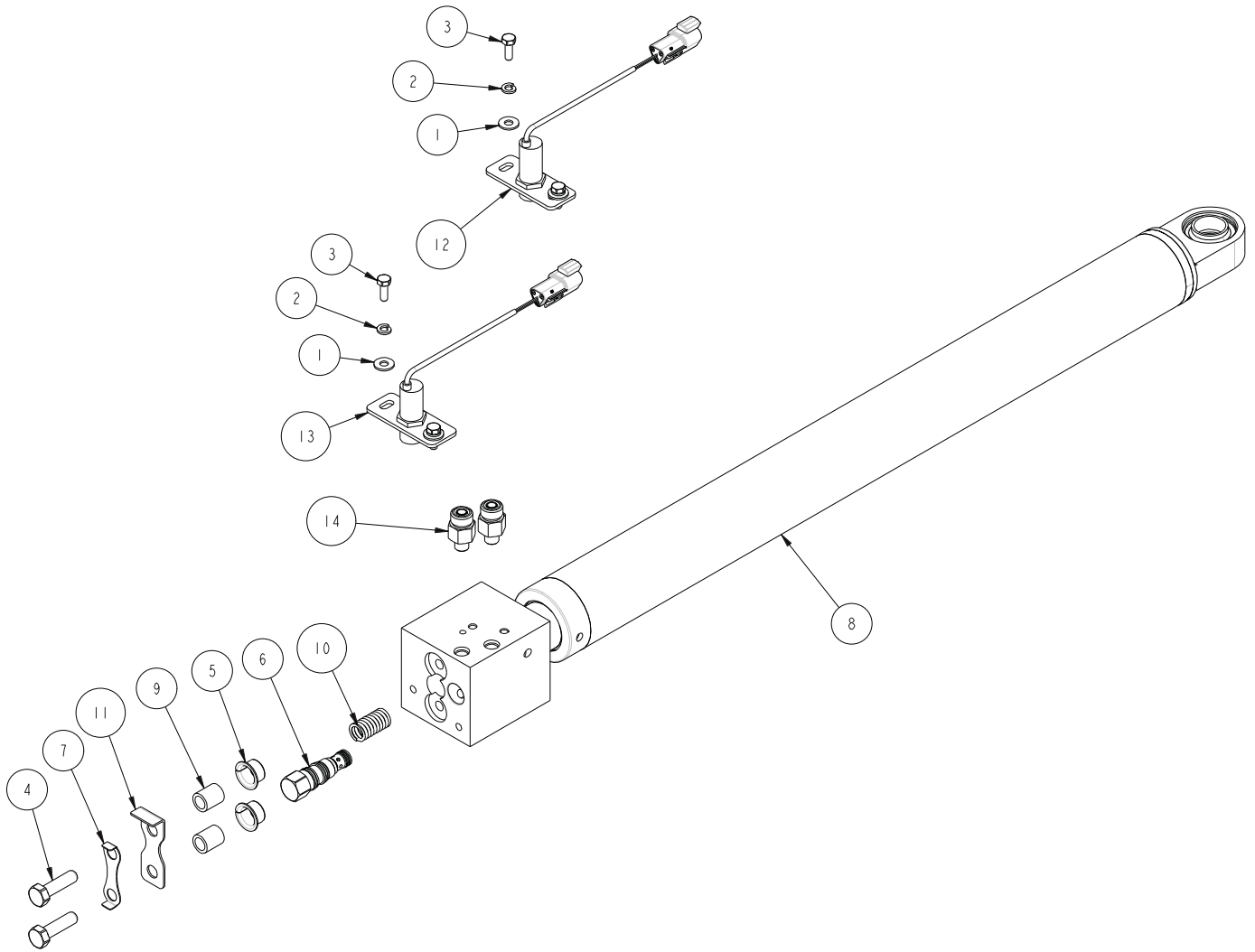
Item	Part No.	Qty.	Description
0	13906-01	1	Lower Lift Cylinder Assembly
1	3603-06	4	Plain Washer
2	3605-06	2	Spring Washer
3	3610-06012	2	Metric Bolt
4	3610-06085	1	Metric Bolt
5	3611-06	1	Metric Nyloc Nut
6	3624-40	2	Permaglide Bush
7	3626-19	4	Flanged Permaglide Bush
8	3641-06	1	Nylon Washer
9	12647-1	1	Cylinder Lever Pivot Plate
10	12648	1	Valve Lever
11	13952	1	SR Lift Cylinder
12	100433-008	1	Hyd Fitting- 45 Elbow ORFS(08)-SAE(08)
13	100434-004	1	Hyd Fitting- 90 Elbow ORFS(04)-SAE(06)
14	3030158	1	Pressure Transducer
15	6018024	1	Solenoid Valve, 2 Way, NC, 20V
16	6019184	1	Coil - 10 12V Deutsch DT Connector
17	6091348	1	Check Valve Poppet Flow

V4 Stabiliser Cylinder Assembly



Item	Part No	Qty	Description
1	3603-06	5	Plain Washer
2	3610-06020	2	Metric Bolt
3	3610-06120	1	Metric Bolt
4	3610-10035	2	Metric Bolt
5	3611-06	2	Metric Nylock Nut
6	3626-8	2	Flanged Permaglide Bush
7	11367-2	1	Pilot-to-open Check Valve
8	11492-4	1	Locktab
9	12036	1	Cylinder
10	12036-5	2	Sliding Spacer
11	12036-6	1	Compression Spring
12	13771-40	1	Prox Bracket, Leg Stowed
13	13771-45	1	Prox Bracket, Leg On Ground
14	100432-007	2	Hyd Fitting - Straight ORFS(06) - SAE(04)
15	505072-000	2	Inductive Prox NO
-	12036K	1	Seal Kit Victor
-	12036K-PB	1	Seal Kit PB
-	12036K-UH	1	Seal Kit UH

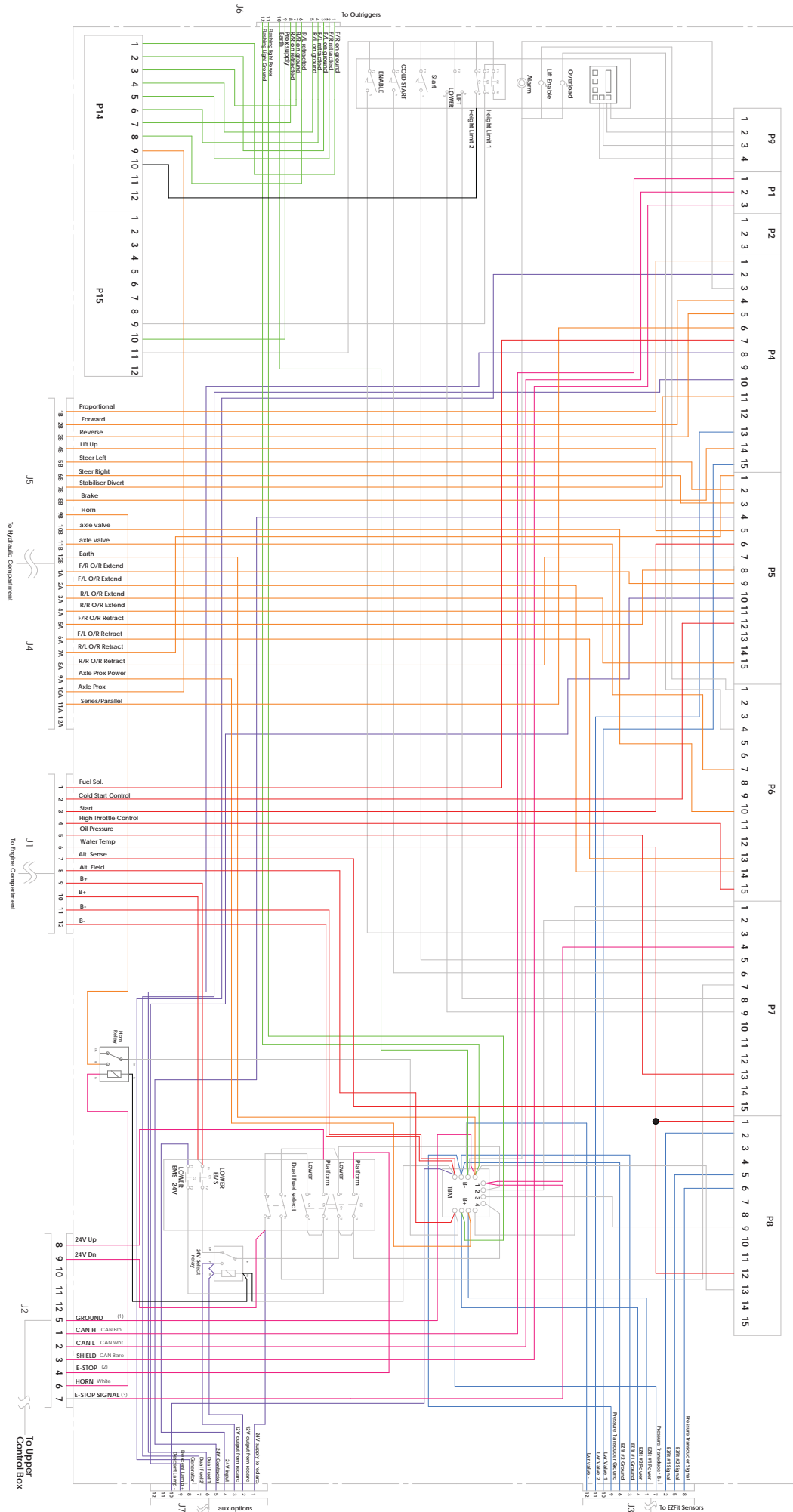
V5 Stabiliser Cylinder Assembly



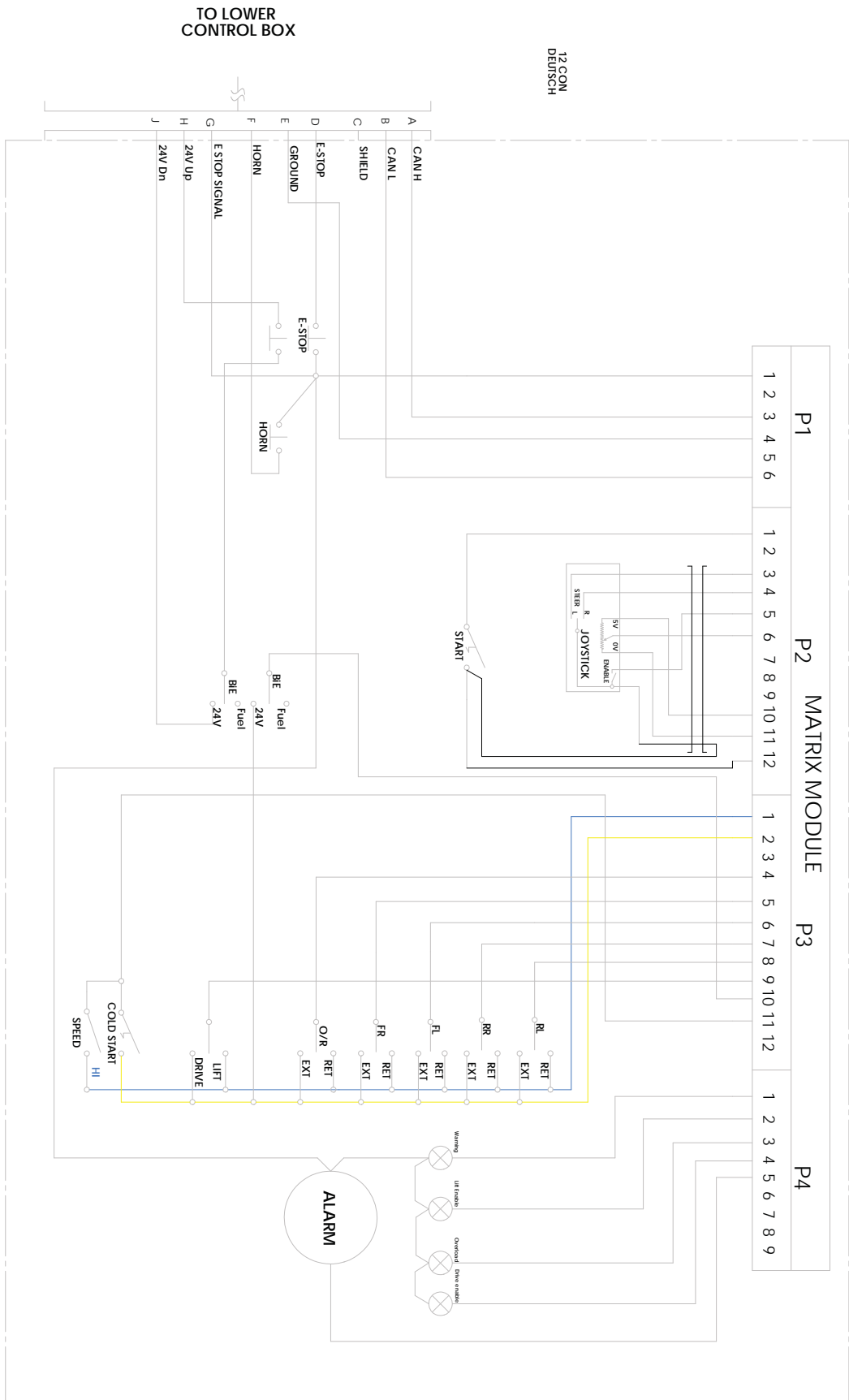
Item	Part No.	Qty.	Description
1	3603-06	4	Plain Washer
2	3605-06	4	Spring Washer
3	3610-06016	4	Metric Bolt
4	3610-10035	2	Metric Bolt
5	3626-8	2	Flanged Permaglide Bush
6	11367-2	1	Pilot-to-open check valve with sealed pilot
7	11492-4	1	Dual Locktab
8	12036	1	Cylinder- Stabiliser SR
9	12036-5	2	Sliding Spacer
10	12036-6	1	Compression Spring
11	14098-02	1	Prox Target, Leg Grounded, SR
12	15085-01	1	Leg Prox w Mount 10mm
13	15085-02	1	Leg Prox w Mount 20mm
14	100432-007	2	Hyd Fitting- Straight ORFS(06)-SAE(04)

Lower Control Box Wiring	3-3
Upper Control Box Wiring	3-4
Top View of Lower Control Box	3-5
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GP400 I/O Menu Diagnostics	3-12
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GP400 I/O Menu Setups	3-14
GP400 I/O Allocations	3-15
14023-01 AS/NZS/CE Diesel Upper Control Box	3-16
14023-02 ANSI Diesel Upper Control Box	3-18
13809-01 AS/NZS/CE Diesel Upper Control Box	3-20
13809-02 ANSI Diesel Upper Control Box	3-22
13811-01 AS/NZS/CE Diesel Lower Control Box	3-24
13811-02 ANSI Diesel Lower Control Box	3-26

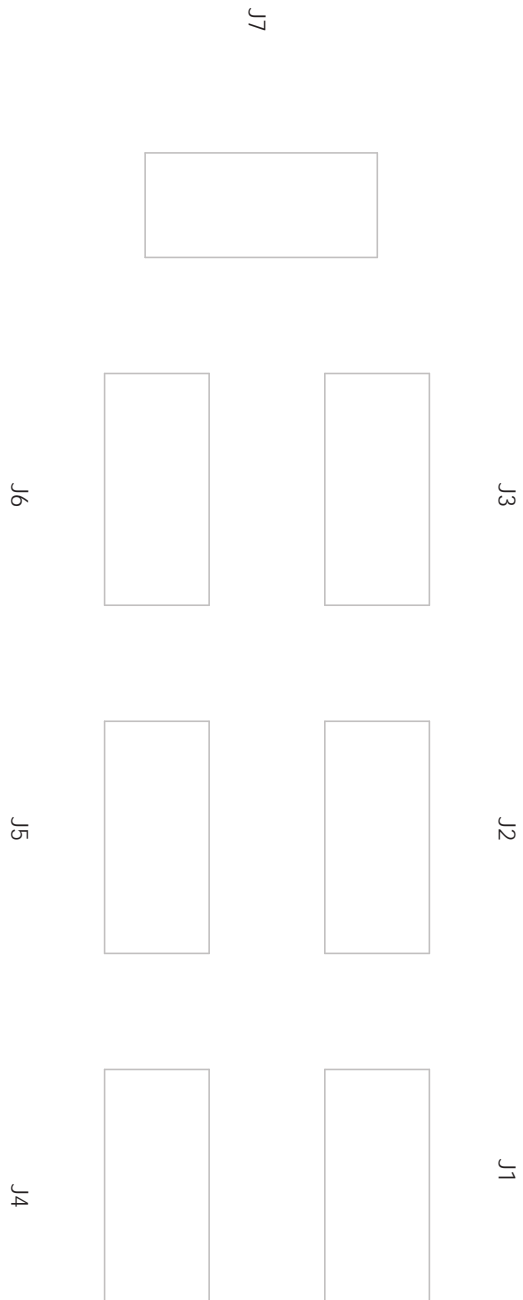
Lower Control Box Wiring



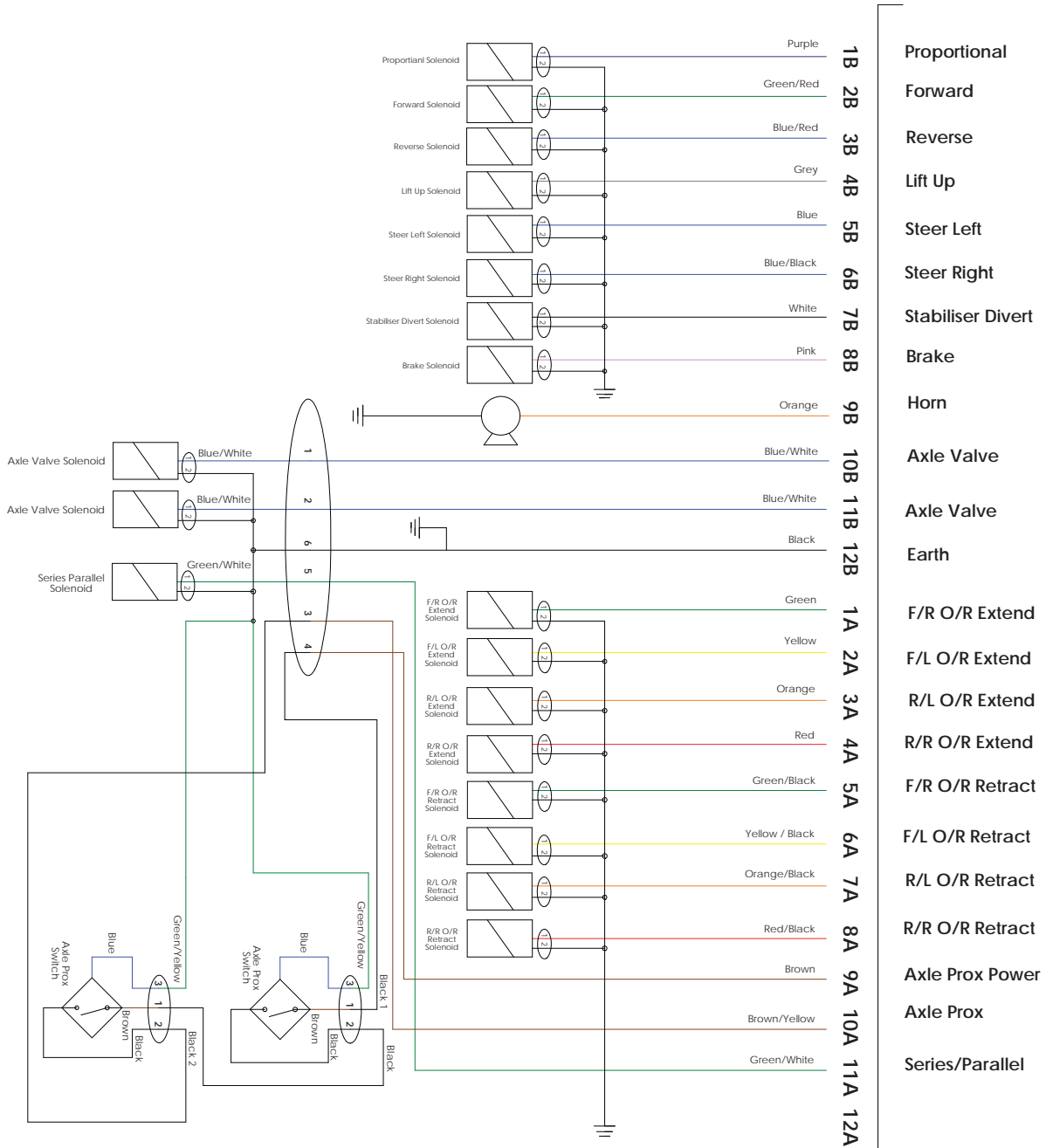
Upper Control Box Wiring

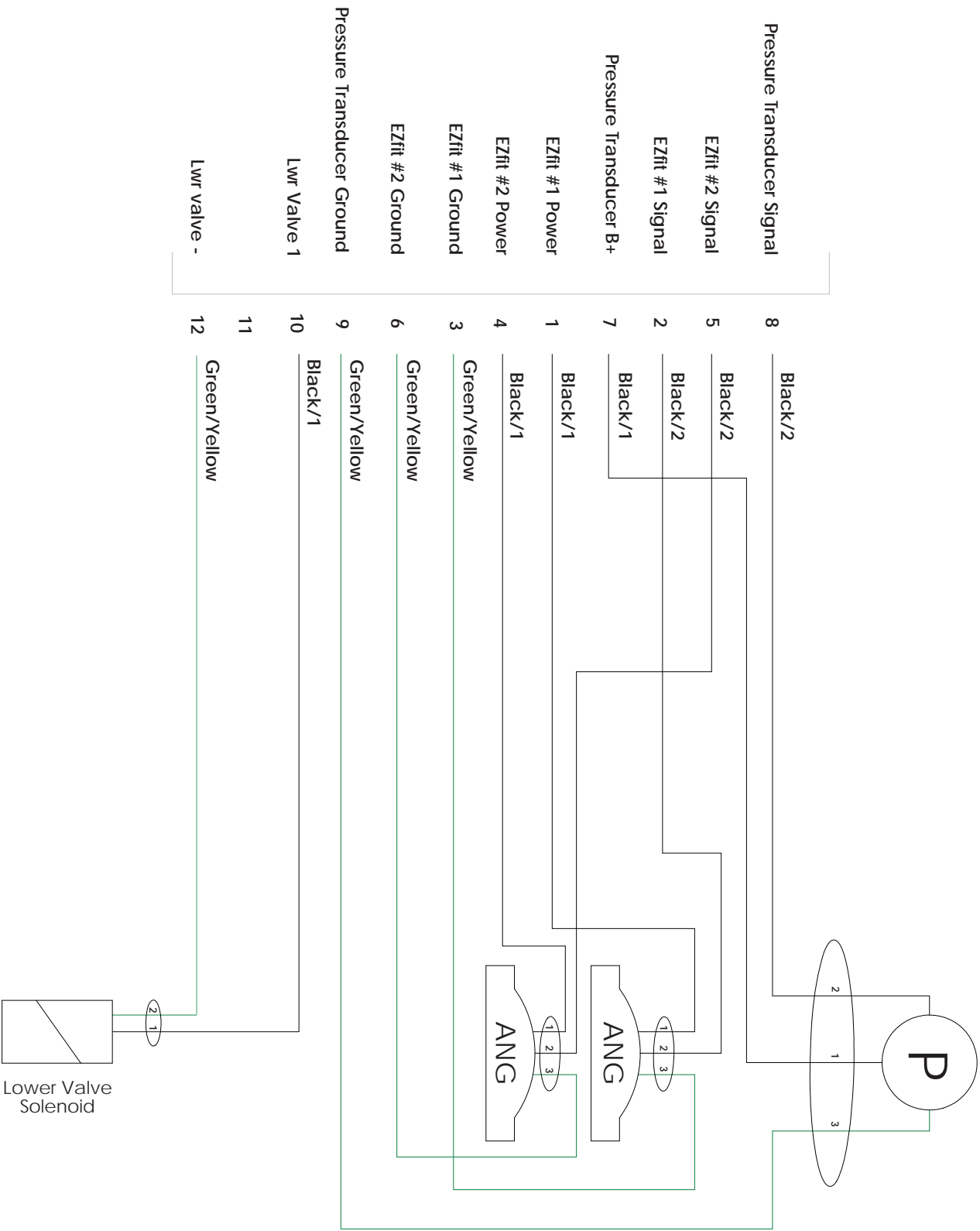


Top View of Lower Control Box

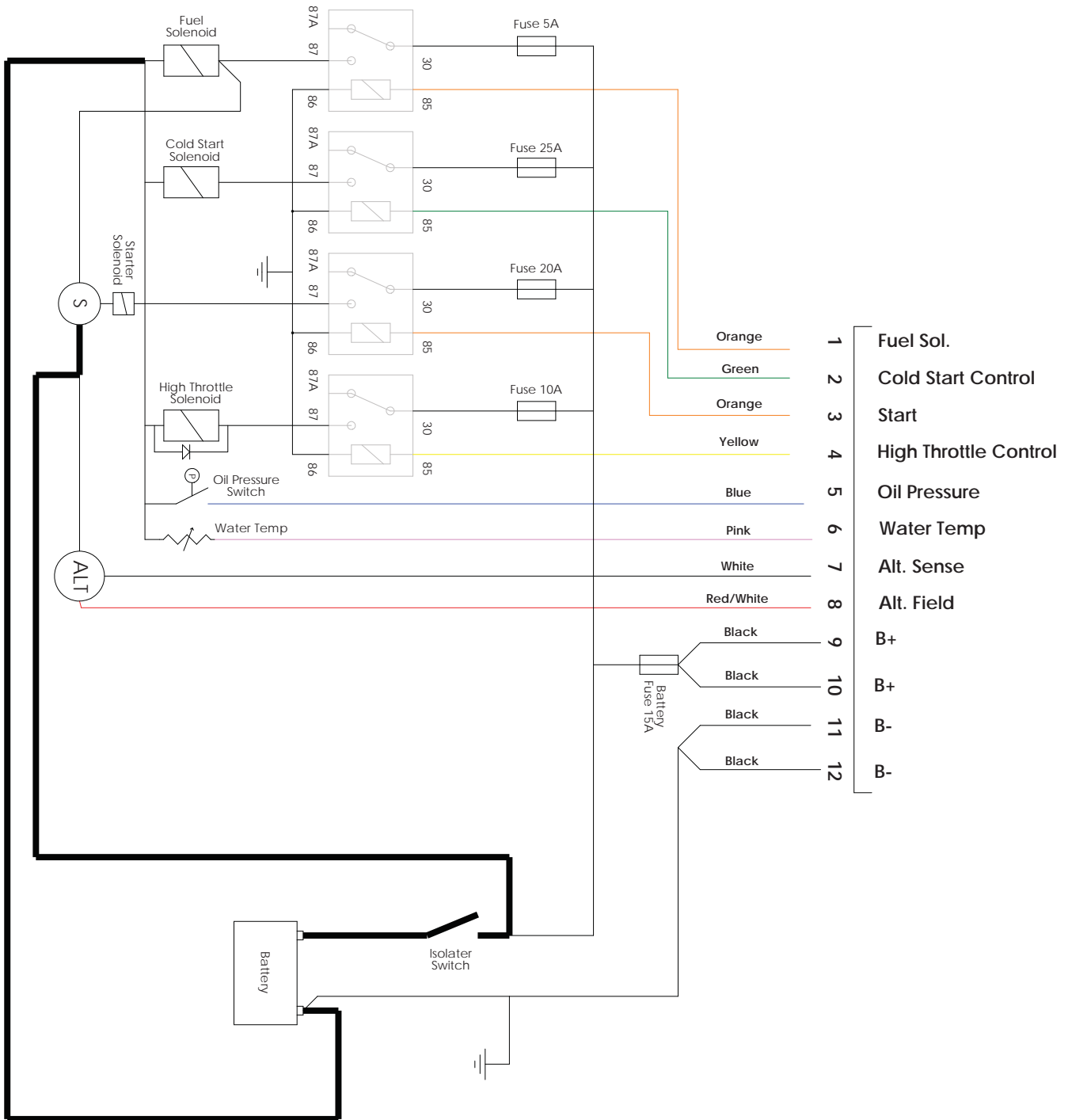


Hydraulic Compartment Wiring

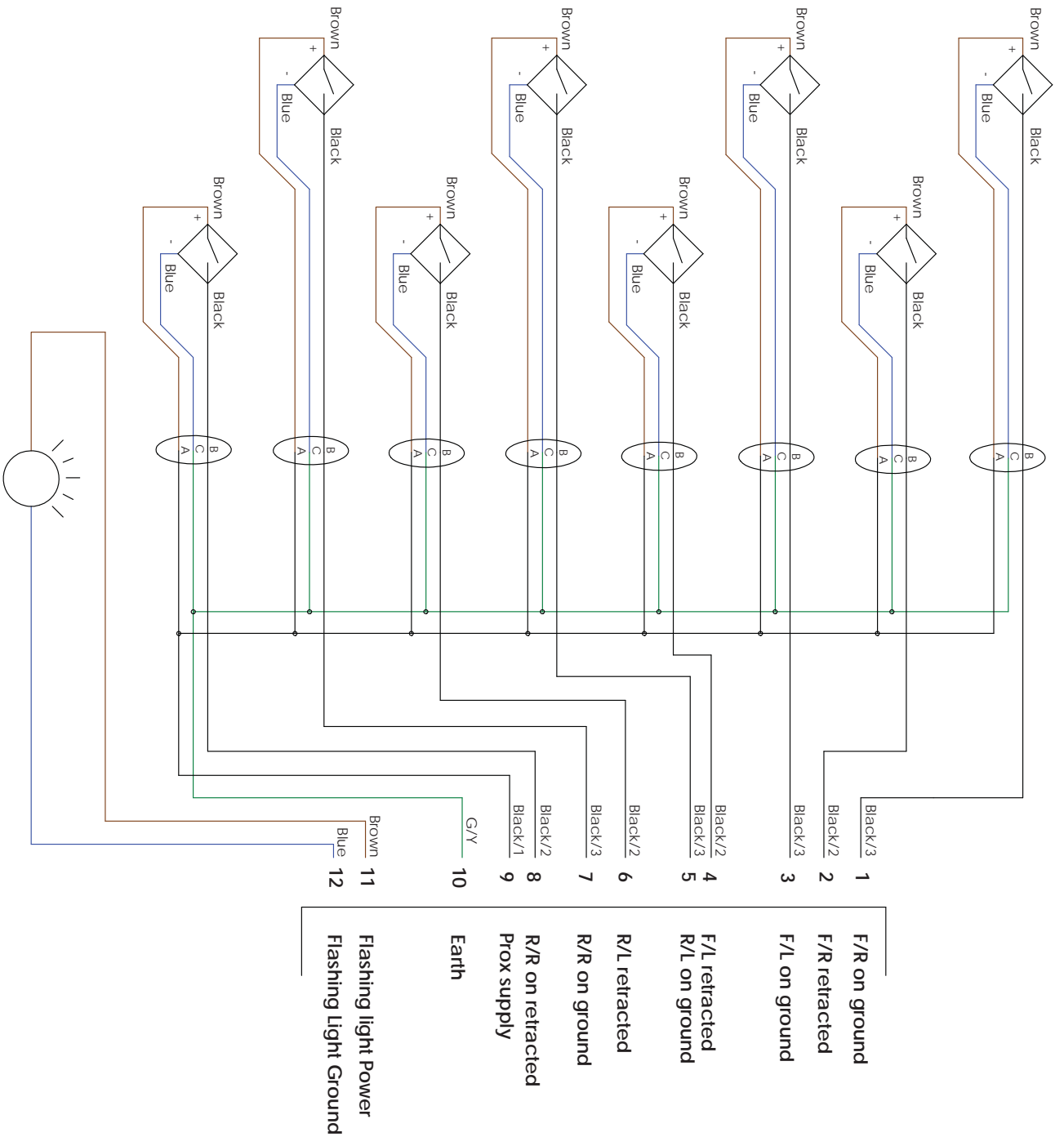




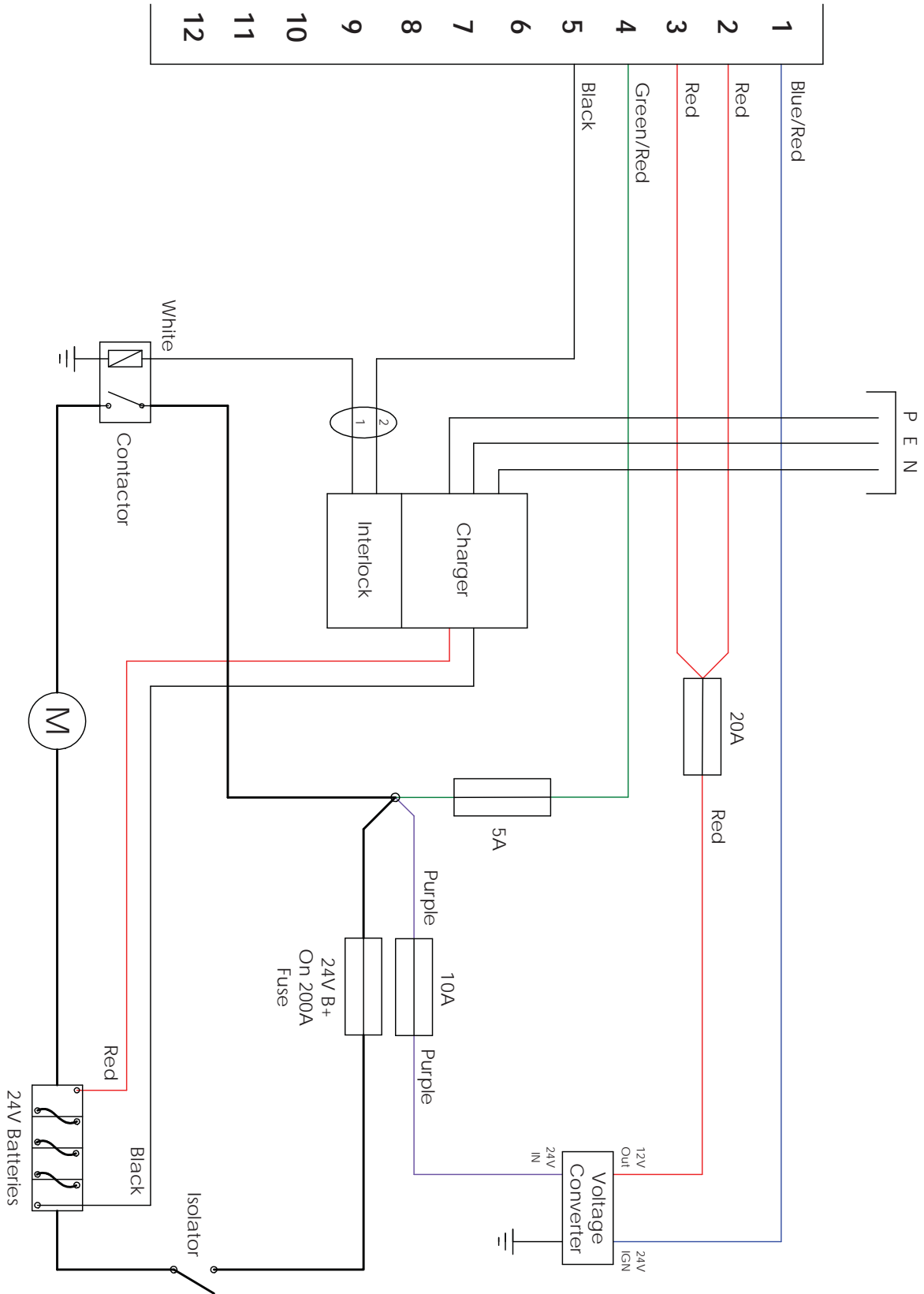
Engine Compartment Wiring

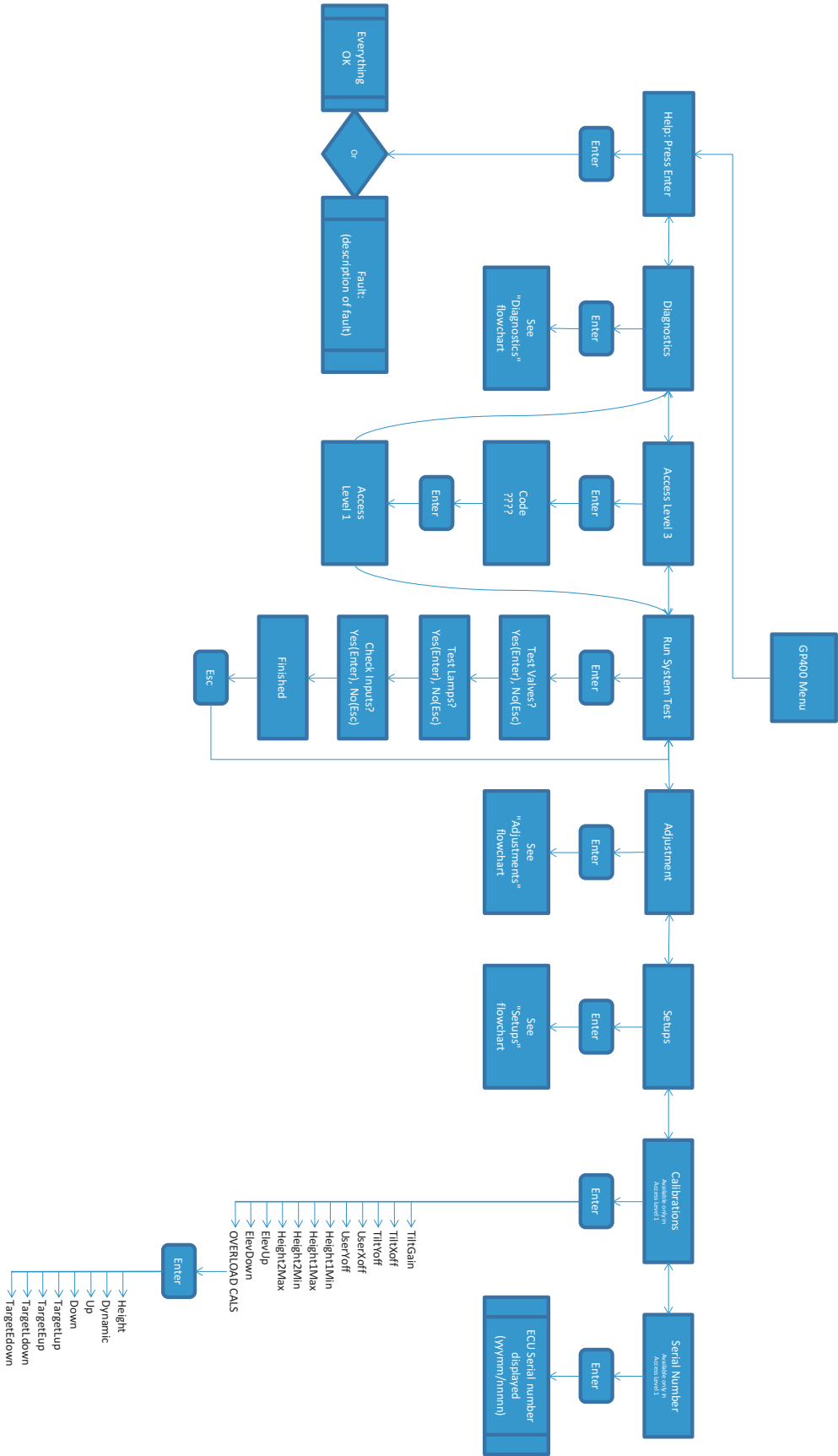


Stabiliser Legs Wiring

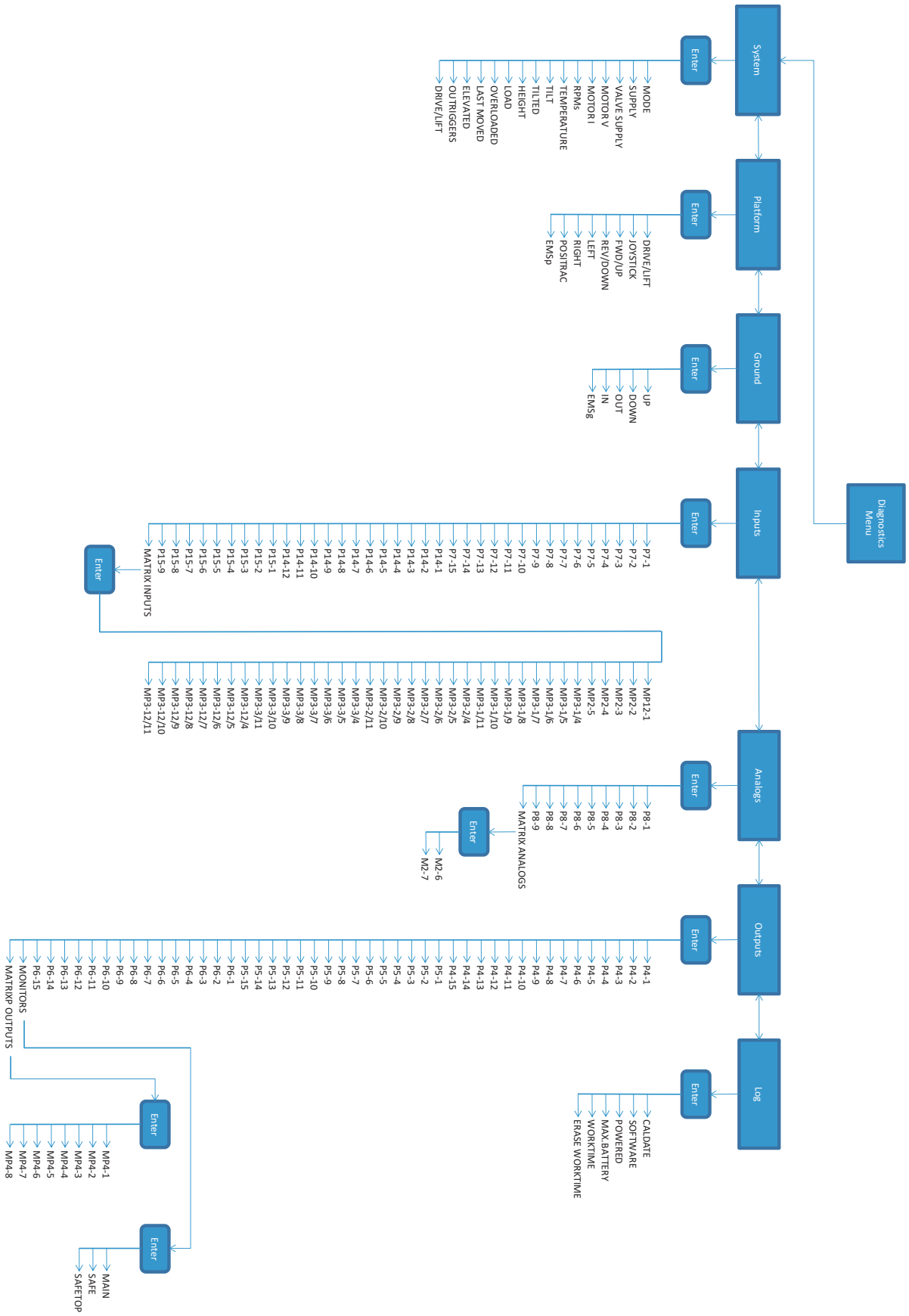


24V DC Option Wiring

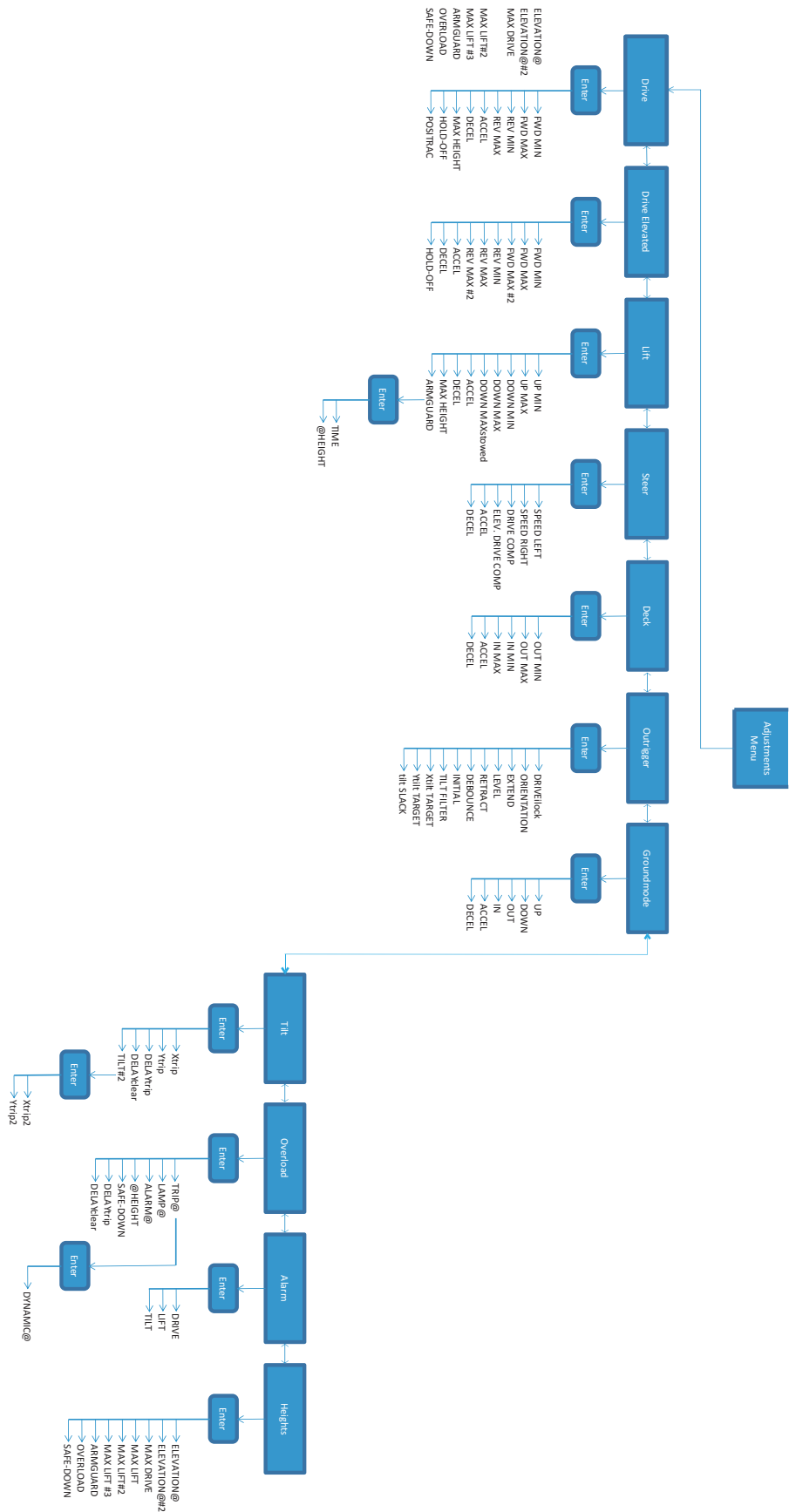




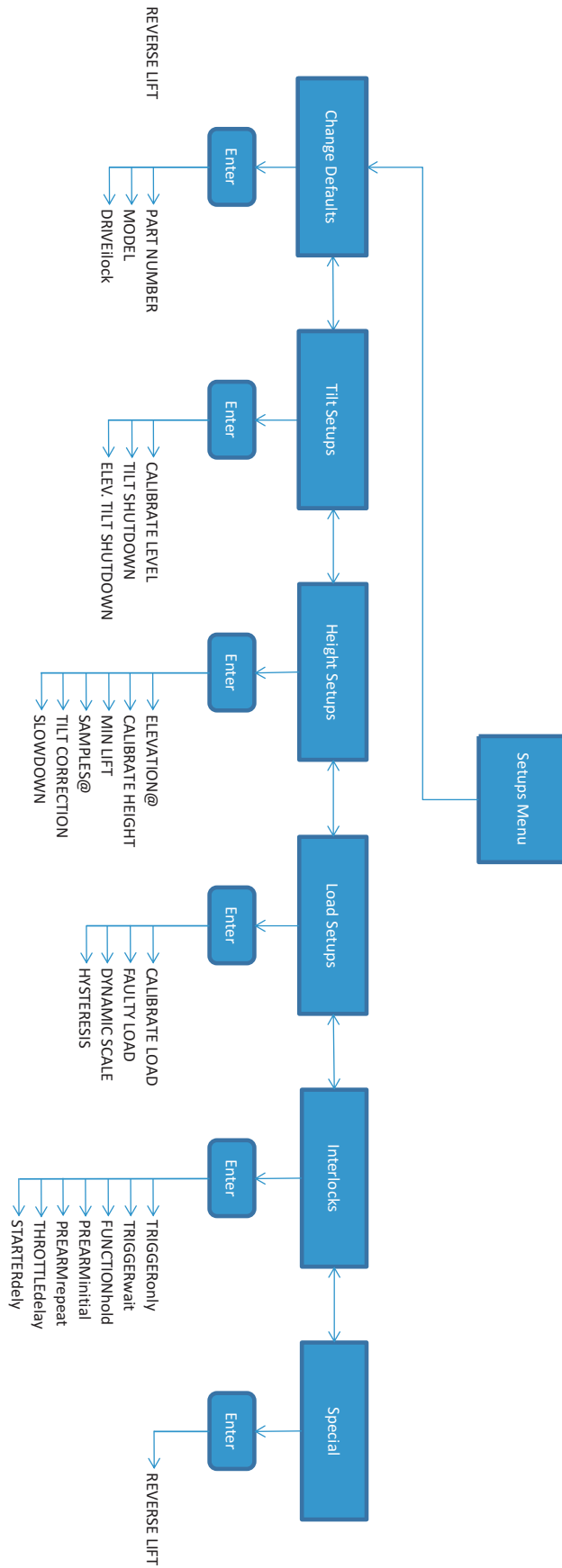
GP400 I/O Menu Diagnostics



GP400 I/O Menu Adjustments



GP400 I/O Menu Setups



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

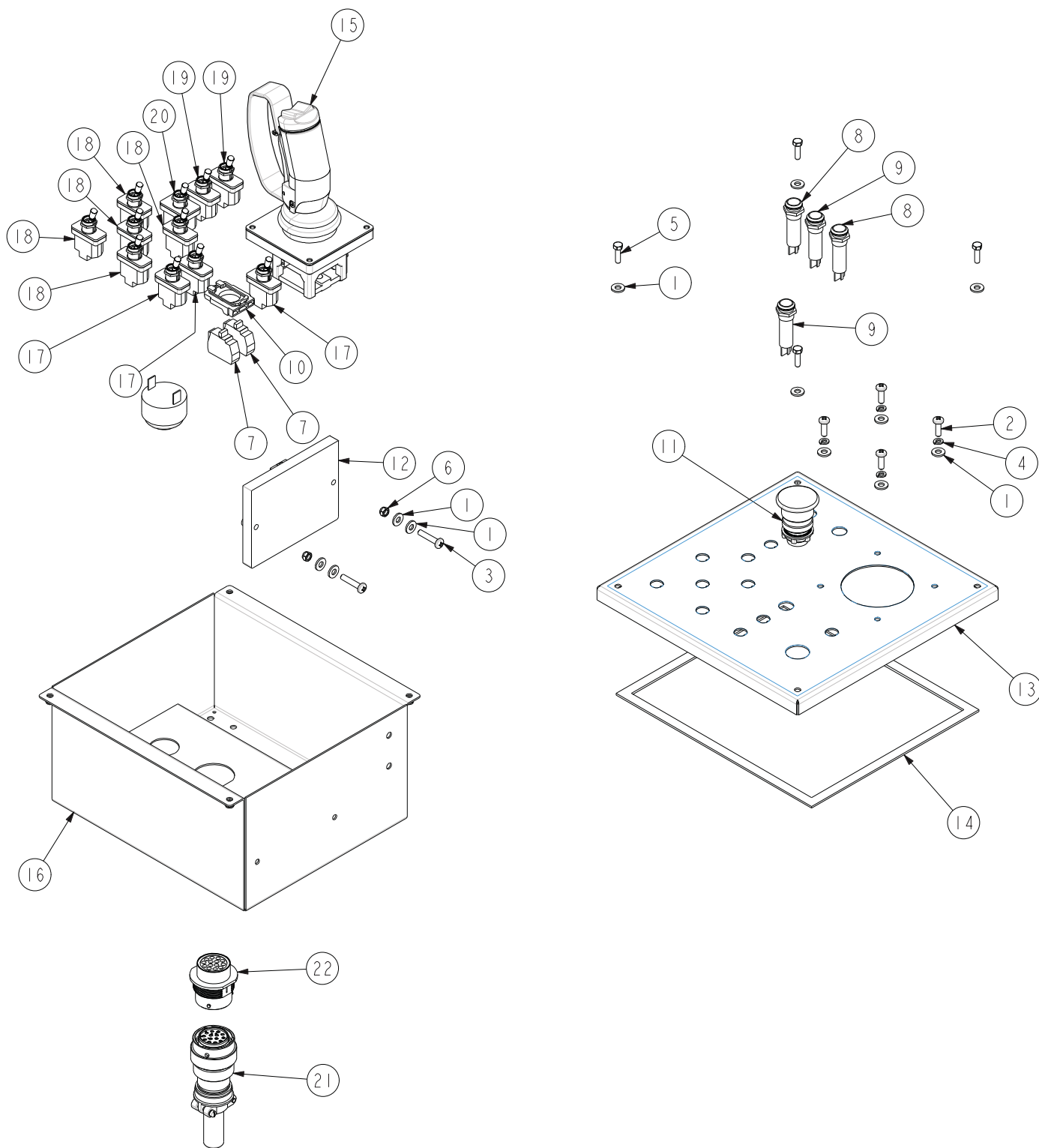
	MP3-1	MP3-2	MP3-3
MP3-1			
MP3-2			
MP3-3			
MP3-4	O/R AUTO RETRACT	O/R AUTO EXTEND	
MP3-5	O/R F/R RETRACT	O/R F/R EXTEND	
MP3-6	O/R F/L RETRACT	O/R F/L EXTEND	
MP3-7	O/R R/R RETRACT	O/R R/R EXTEND	
MP3-8	O/R R/L RETRACT	O/R R/L EXTEND	
MP3-9	LIFT SELECT	DRIVE SELECT	
MP3-10		24VDC select	
MP3-11	HIGHSPEED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

14023-01 AS/NZS/CE Diesel Upper Control Box

Item	Part No.	Qty.	Description
1	3603-05	16	Plain Washer
2	3604-05016	4	Machine Screw
3	3604-05025	2	Screw, Pan Head Pozzi- M5 x 25 ZP
4	3605-05	4	Spring Washer
5	3610-05016	4	Metric Bolt
6	3611-05	6	Metric Nyloc Nut
7	10118	2	Contact, NC - Telemec ZBE-102
8	12536-3	2	LED - Green, 12V M12
9	12536-4	2	LED - Red, 12V M12
10	12914-10	1	Collar
11	12914-11	1	E-stop- 40mm, pull release
12	13485-02	1	Trionics - Matrix
13	13808-01	1	Control Box Lid- Upper SR V4
14	13862_FOR_13809	1	Foam Strip
15	13888	1	Joystick- 1 axis, Deadman guard
16	14022	1	Control Box Base- Upper, SR V4
17	3020015	3	Switch, Toggle - Honeywell INT1-6
18	3020016	5	Switch, Toggle - Honeywell INT1-7
19	3020047	2	Switch, Toggle - Honeywell INT1-3
20	3020097	1	Switch, Toggle - Honeywell 2NT1-3
21	3049861	1	Plug, HD30, 14 Way
22	3049862	1	Receptacle, Flgd HD30, 14 Way

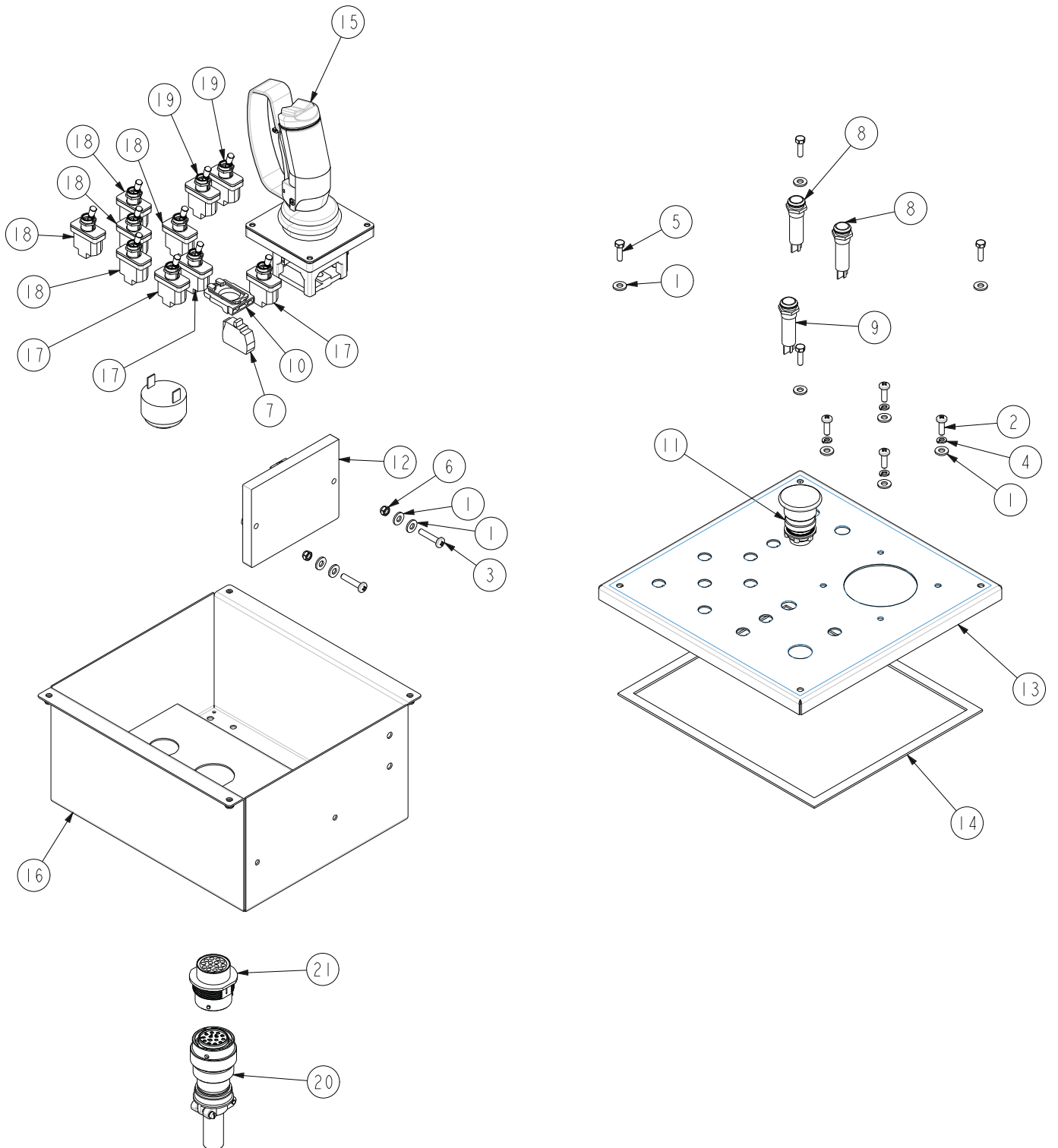
14023-01 AS/NZS/CE Diesel Upper Control Box



14023-02 ANSI Diesel Upper Control Box

Item	Part No.	Qty.	Description
1	3603-05	16	Plain Washer
2	3604-05016	4	Machine Screw
3	3604-05025	2	Screw, Pan Head Pozzi- M5 x 25 ZP
4	3605-05	4	Spring Washer
5	3610-05016	4	Metric Bolt
6	3611-05	6	Metric Nyloc Nut
7	10118	1	Contact, NC - Telemec ZBE-102
8	12536-3	2	LED - Green, 12V M12
9	12536-4	1	LED - Red, 12V M12
10	12914-10	1	Collar
11	12914-11	1	E-stop- 40mm, pull release
12	13485-02	1	Trionics - Matrix
13	13808-01	1	Control Box Lid- Upper SR V4
14	13862_FOR_13809	1	Foam Strip
15	13888	1	Joystick- 1 axis, Deadman guard
16	14022	1	Control Box Base- Upper, SR V4
17	3020015	3	Switch, Toggle - Honeywell INT1-6
18	3020016	5	Switch, Toggle - Honeywell INT1-7
19	3020047	2	Switch, Toggle - Honeywell INT1-3
20	3049861	1	Plug, HD30, 14 Way
21	3049862	1	Receptacle, Flgd HD30, 14 Way

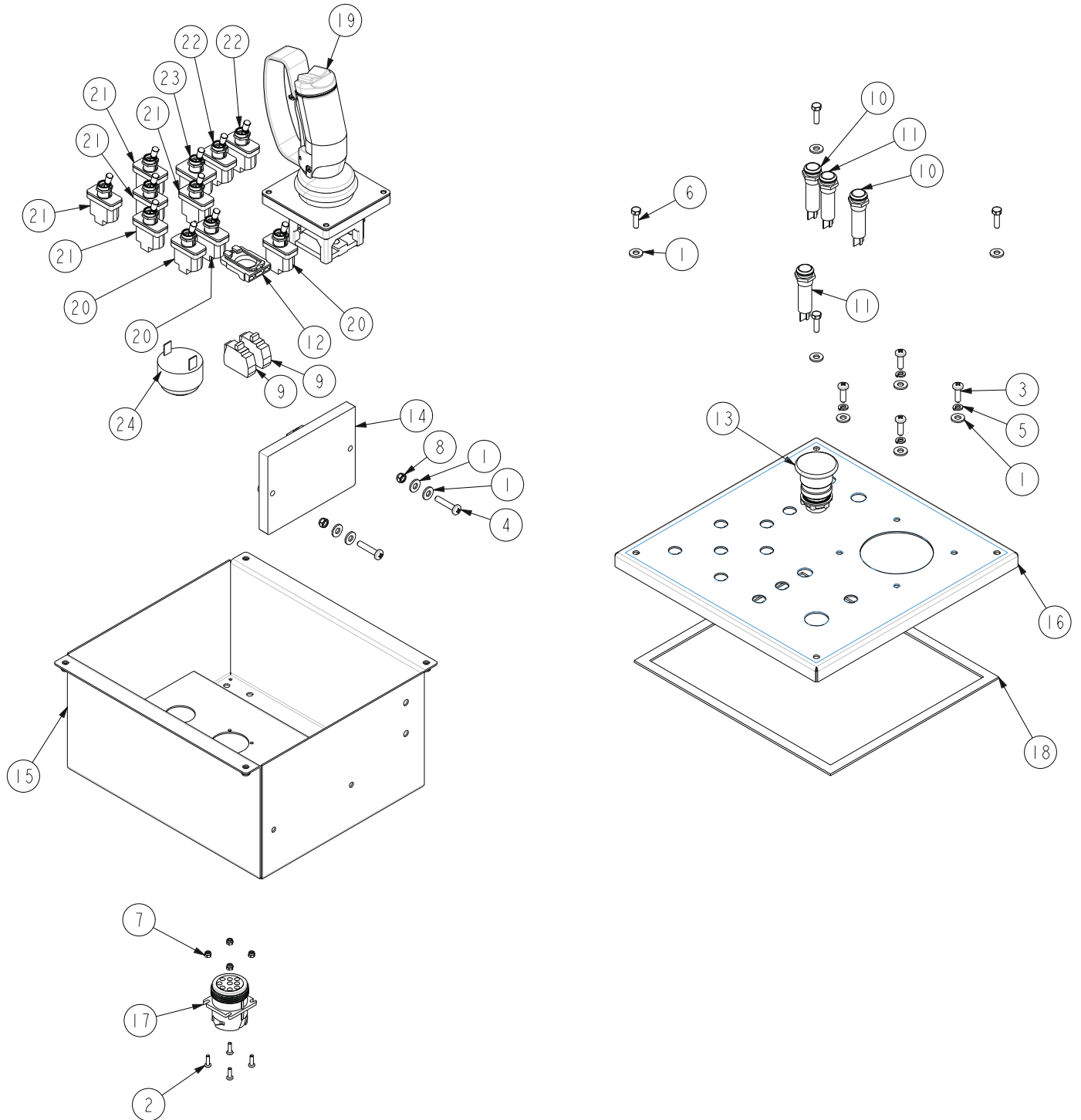
14023-02 ANSI Diesel Upper Control Box



13809-01 AS/NZS/CE Diesel Upper Control Box

Item	Part No.	Qty.	Description
1	3603-05	16	Plain Washer
2	3604-03010	4	Machine Screw
3	3604-05016	4	Machine Screw
4	3604-05025	2	Screw, Pan Head Pozzi- M5 x 25 ZP
5	3605-05	4	Spring Washer
6	3610-05016	4	Metric Bolt
7	3611-03	4	Metric Nyloc Nut
8	3611-05	6	Metric Nyloc Nut
9	10118	2	Contact, NC - Telemec ZBE-102
10	12536-3	2	LED - Green, 12V M12
11	12536-4	2	LED - Red, 12V M12
12	12914-10	1	Collar
13	12914-11	1	E-stop- 40mm, pull release
14	13485-02	1	Trionics - Matrix
15	13808	1	Control Box Base- Upper, SR V4
16	13808-01	1	Control Box Lid- Upper SR V4
17	13847-996	1	Receptacle, Flanged HD10, 9 Way
18	13862_FOR_13809	1	Foam Strip
19	13888	1	Joystick- 1 axis, Deadman guard
20	3020015	3	Switch, Toggle - Honeywell INT1-6
21	3020016	5	Switch, Toggle - Honeywell INT1-7
22	3020047	2	Switch, Toggle - Honeywell INT1-3
23	3020097	1	Switch, Toggle - Honeywell 2NT1-3
24	3040411	1	Alarm Buzzer

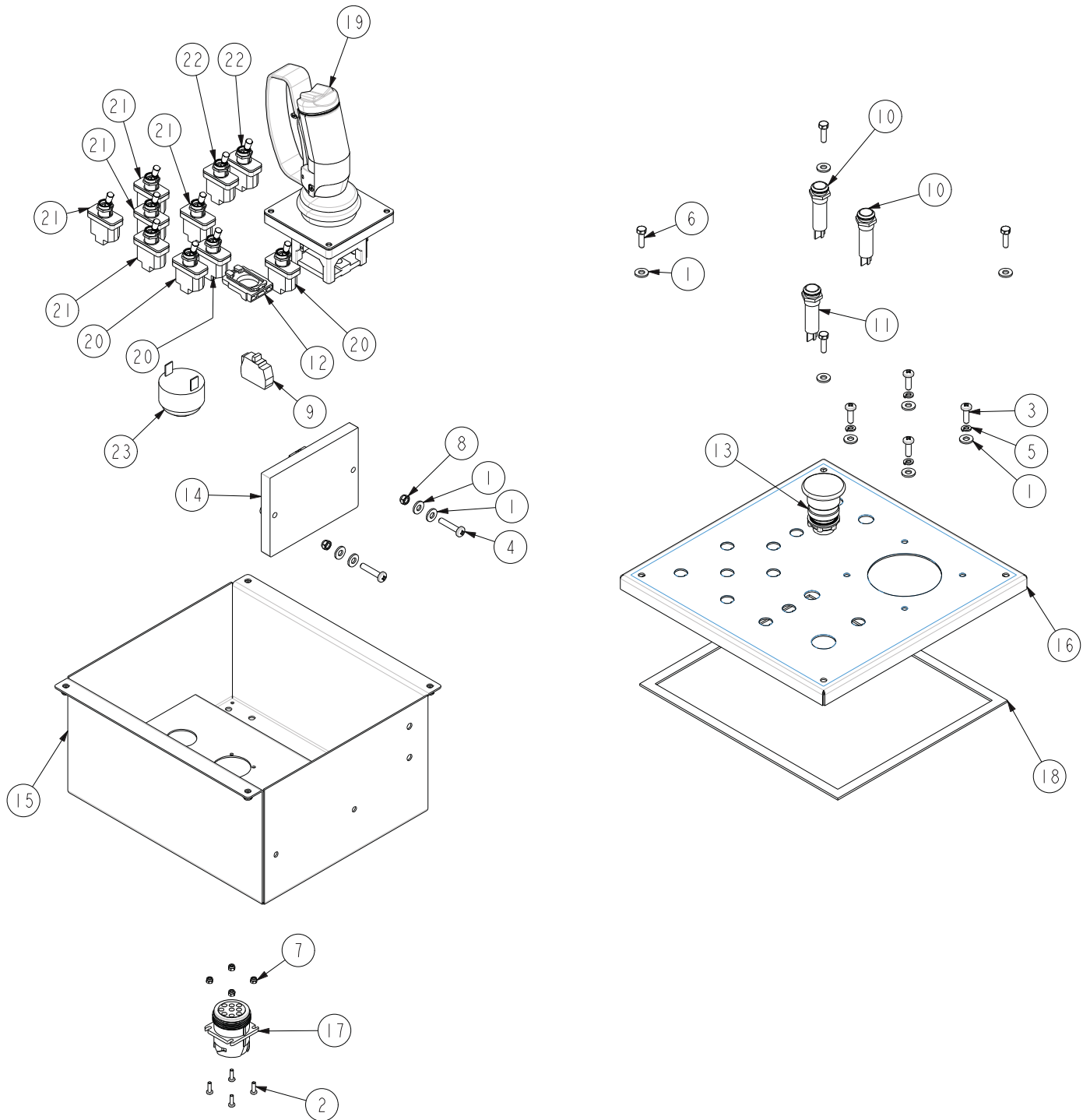
13809-01 AS/NZS/CE Diesel Upper Control Box



13809-02 ANSI Diesel Upper Control Box

Item	Part No.	Qty.	Description
1	3603-05	16	Plain Washer
2	3604-03010	4	Machine Screw
3	3604-05016	4	Machine Screw
4	3604-05025	2	Screw, Pan Head Pozzi- M5 x 25 ZP
5	3605-05	4	Spring Washer
6	3610-05016	4	Metric Bolt
7	3611-03	4	Metric Nyloc Nut
8	3611-05	6	Metric Nyloc Nut
9	10118	1	Contact, NC - Telemec ZBE-102
10	12536-3	2	LED - Green, 12V M12
11	12536-4	1	LED - Red, 12V M12
12	12914-10	1	Collar
13	12914-11	1	E-stop- 40mm, pull release
14	13485-02	1	Trionics - Matrix
15	13808	1	Control Box Base- Upper, SR V4
16	13808-01	1	Control Box Lid- Upper SR V4
17	13847-996	1	Receptacle, Flanged HD10, 9 Way
18	13862_FOR_13809	1	Foam Strip
19	13888	1	Joystick- 1 axis, Deadman guard
20	3020015	3	Switch, Toggle - Honeywell INT1-6
21	3020016	5	Switch, Toggle - Honeywell INT1-7
22	3020047	2	Switch, Toggle - Honeywell INT1-3
23	3040411	1	Alarm Buzzer

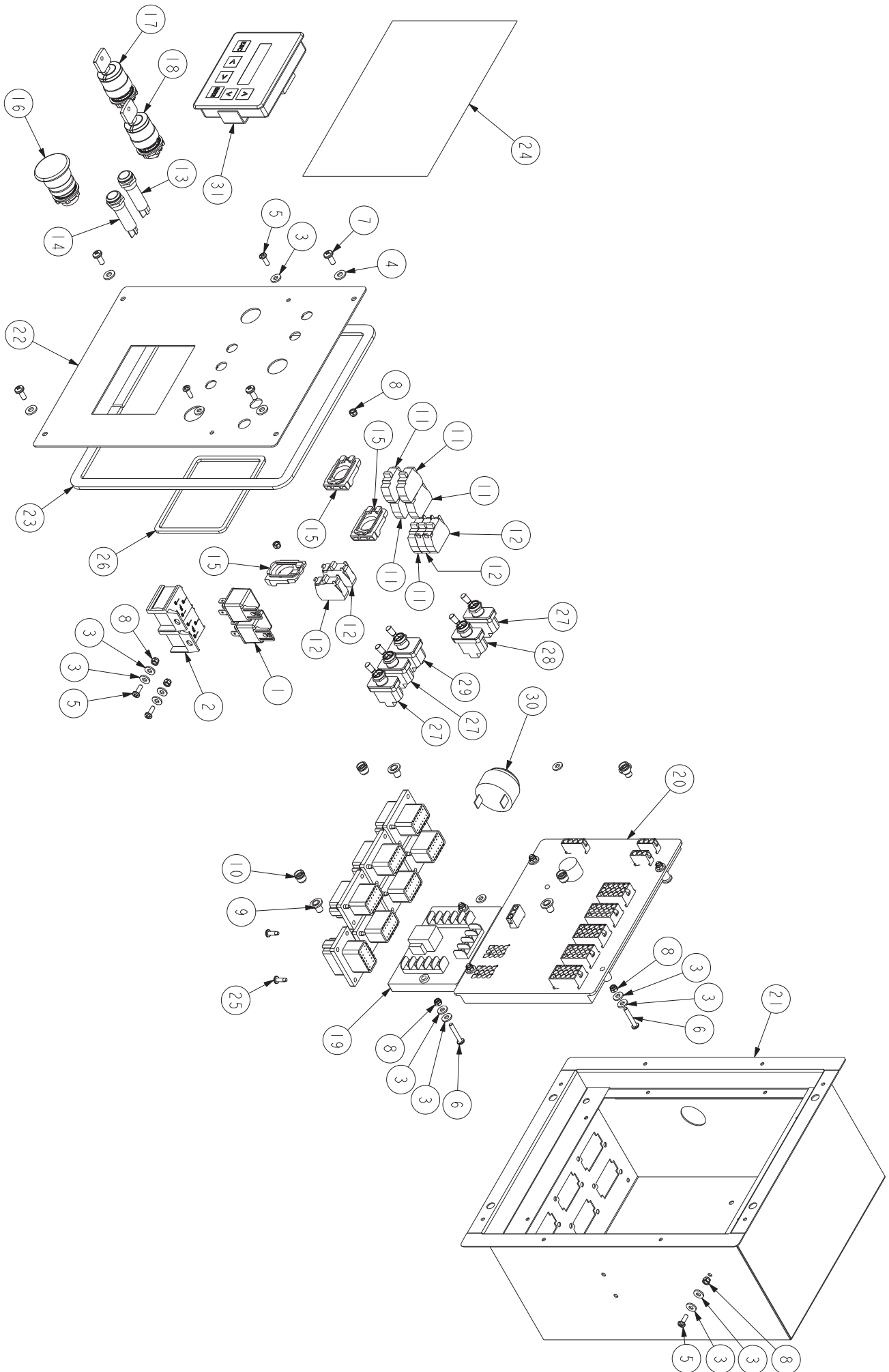
13809-02 ANSI Diesel Upper Control Box



13811-01 AS/NZS/CE Diesel Lower Control Box

Item	Part No.	Qty.	Description
1	1650-010	2	Relay 12V
2	2065-002	2	Plugin Relay Base
3	3603-04	24	Plain Washer
4	3603-05	4	Plain Washer
5	3604-04012	6	Metric Screw Pan Head
6	3604-04025	6	Screw, Pan Head Pozzi- M4 x 25 ZP
7	3604-05012	4	Screw, Pan Head Pozzi- M5 x 12 ZP
8	3611-04	12	Metric Nyloc Nut
9	3628-05	4	Nutsert- M5, Steel ZP
10	3628-06	4	Nutsert M6
11	10114	5	Contact, NO - Telemec ZBE-101
12	10118	4	Contact, NC - Telemec ZBE-102
13	12536-3	1	LED - Green, 12V M12
14	12536-4	1	LED - Red, 12V M12
15	12914-10	3	Collar
16	12914-12	1	Push Button- 40mm, Red
17	12914-13	1	Key Switch- 1-(2)-3, 455 key
18	12914-17	1	Key Switch- (1)-(2)-(3), 421E key
19	13485-03	1	Trionics - TBM
20	13485-05	1	Trionics - GP400C
21	13810	1	Control Box Weld
22	13810-5	1	Control Box - Face Panel
23	13811-1	1	Foam Seal
24	13839-01	1	Decal - Lower Control Box
25	13926-1008	14	Screw, T25- Pan Pozzi, ZP
26	514345-000	1	Gasket- EzCal Display
27	3020015	3	Switch, Toggle - Honeywell INT1-6
28	3020016	1	Switch, Toggle - Honeywell INT1-7
29	3020097	1	Switch, Toggle - Honeywell 2NT1-3
30	3040411	1	Alarm Buzzer
31	3087803	1	Ezcal Panel - Trionics

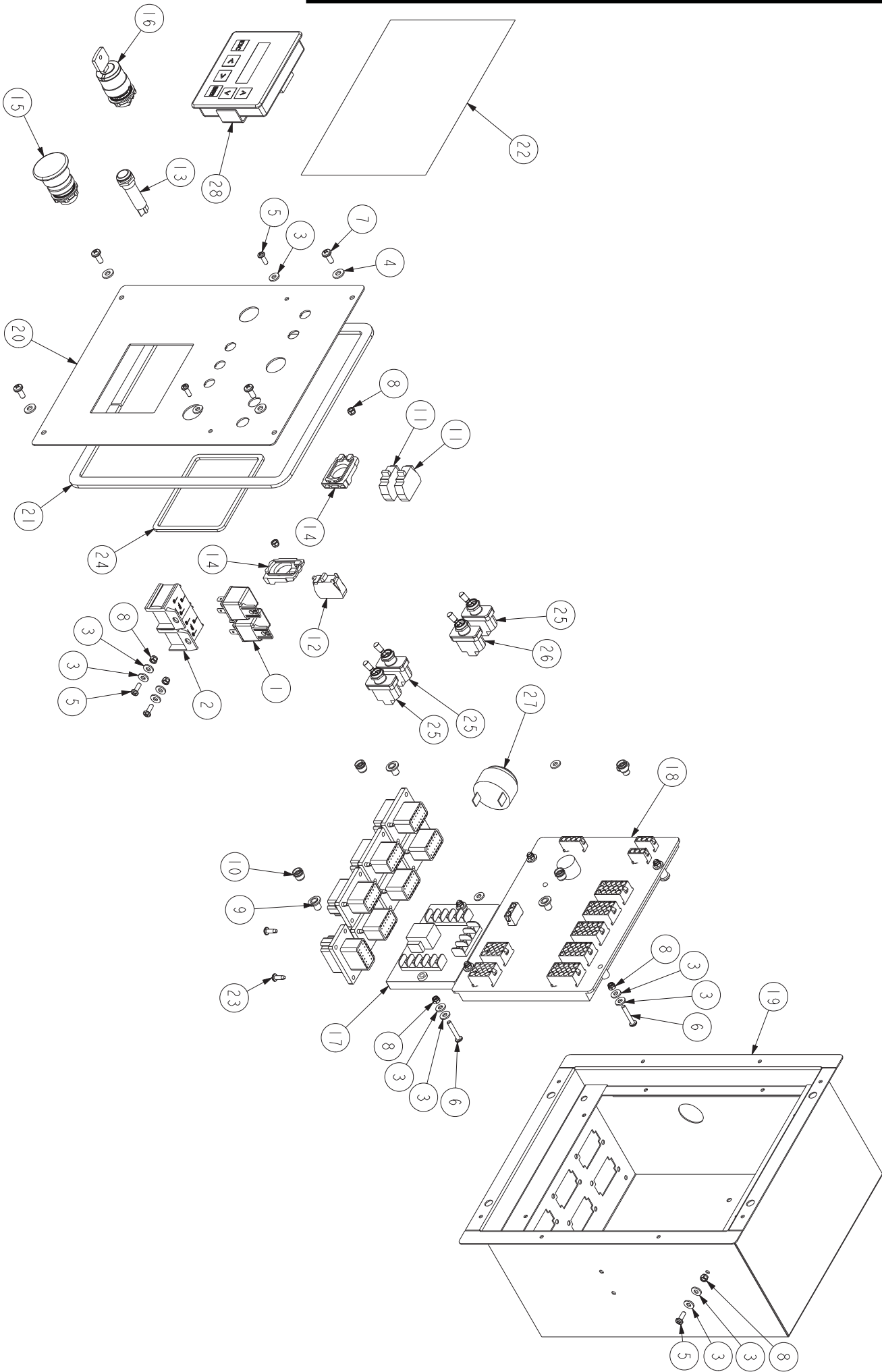
13811-01 AS/NZS/CE Diesel Lower Control Box



13811-02 ANSI Diesel Lower Control Box

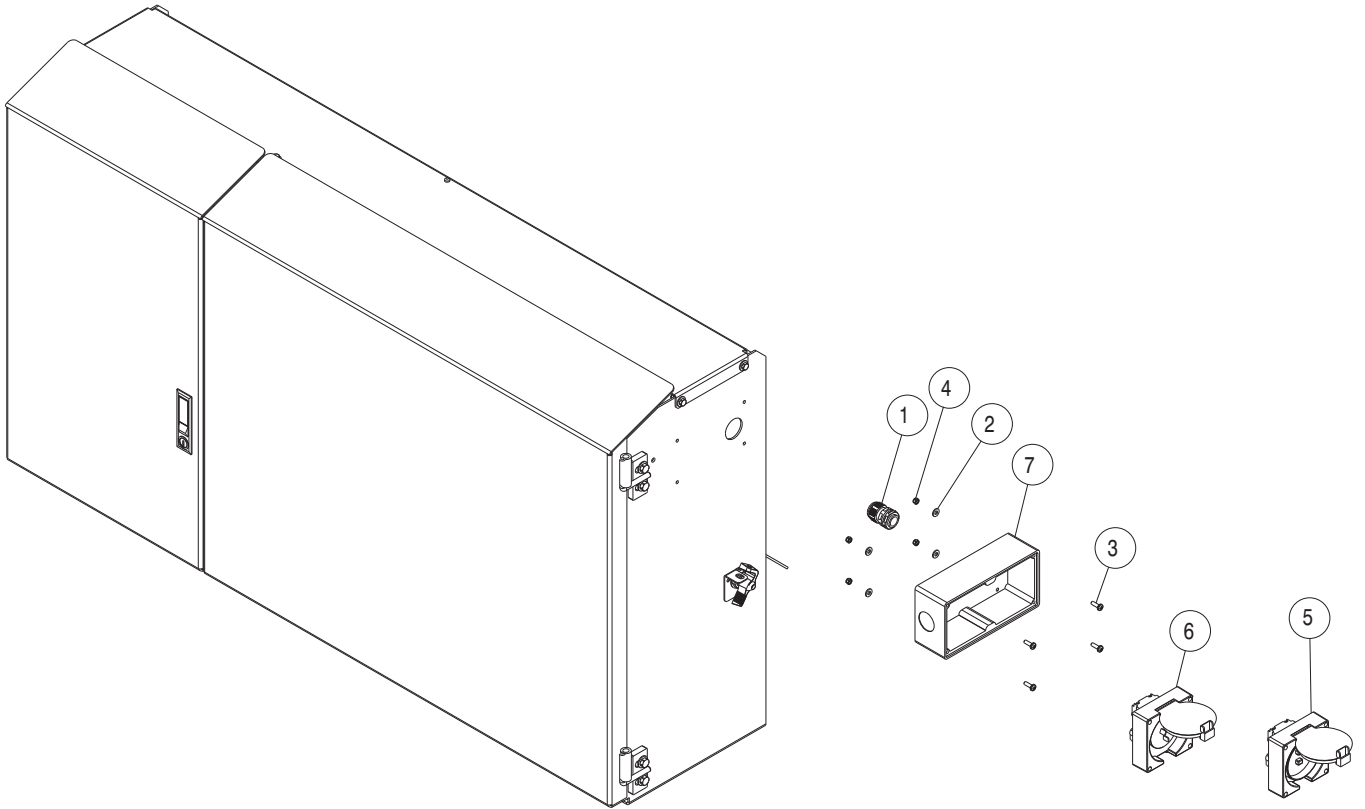
Item	Part No.	Qty.	Description
1	1650-010	2	Relay 12V
2	2065-002	2	Plugin Relay Base
3	3603-04	24	Plain Washer
4	3603-05	4	Plain Washer
5	3604-04012	6	Metric Screw Pan Head
6	3604-04025	6	Screw, Pan Head Pozzi- M4 x 25 ZP
7	3604-05012	4	Screw, Pan Head Pozzi- M5 x 12 ZP
8	3611-04	12	Metric Nyloc Nut
9	3628-05	4	Nutsert- M5, Steel ZP
10	3628-06	4	Nutsert M6
11	10114	2	Contact, NO - Telemec ZBE-101
12	10118	1	Contact, NC - Telemec ZBE-102
13	12536-3	1	LED - Green, 12V M12
14	12914-10	2	Collar
15	12914-12	1	Push Button- 40mm, Red
16	12914-13	1	Key Switch- 1-(2)-3, 455 key
17	13485-03	1	Trionics - TBM
18	13485-05	1	Trionics - GP400C
19	13810	1	Control Box Weld
20	13810-5	1	Control Box - Face Panel
21	13811-1	1	Foam Seal
22	13839-01	1	Decal - Lower Control Box
23	13926-1008	14	Screw, T25- Pan Pozzi, ZP
24	514345-000	1	Gasket- EzCal Display
25	3020015	3	Switch, Toggle - Honeywell INTI-6
26	3020016	1	Switch, Toggle - Honeywell INTI-7
27	3040411	1	Alarm Buzzer
28	3087803	1	Ezcal Panel - Trionics

13811-02 ANSI Diesel Lower Control Box

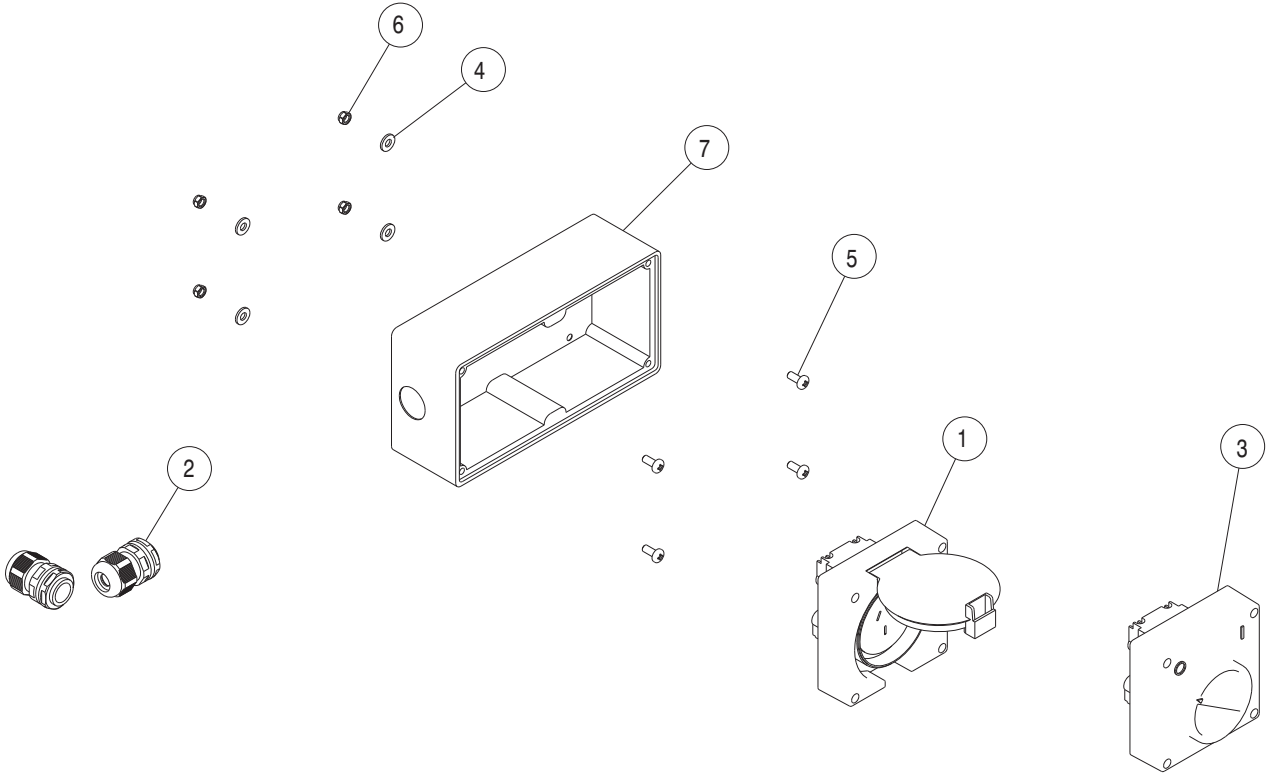
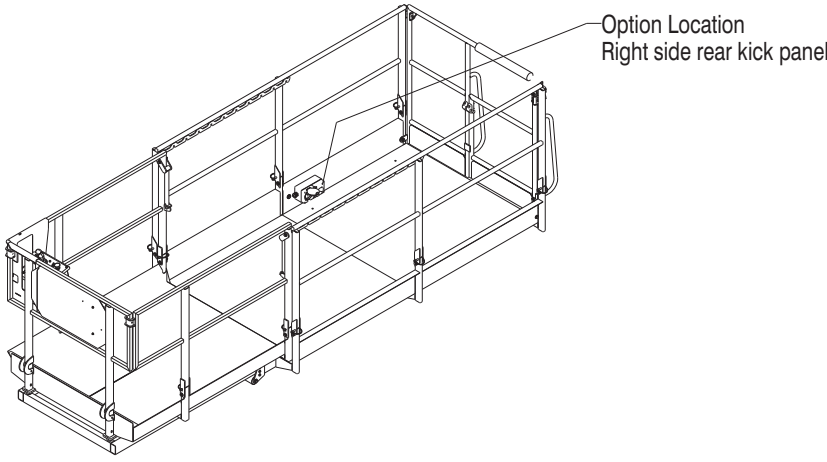


240V at Base Assembly 4-2
240V at Platform Assembly 4-3
24V DC Cabinet Assembly 4-4
Battery Box Mounting 4-5

240V at Base Assembly

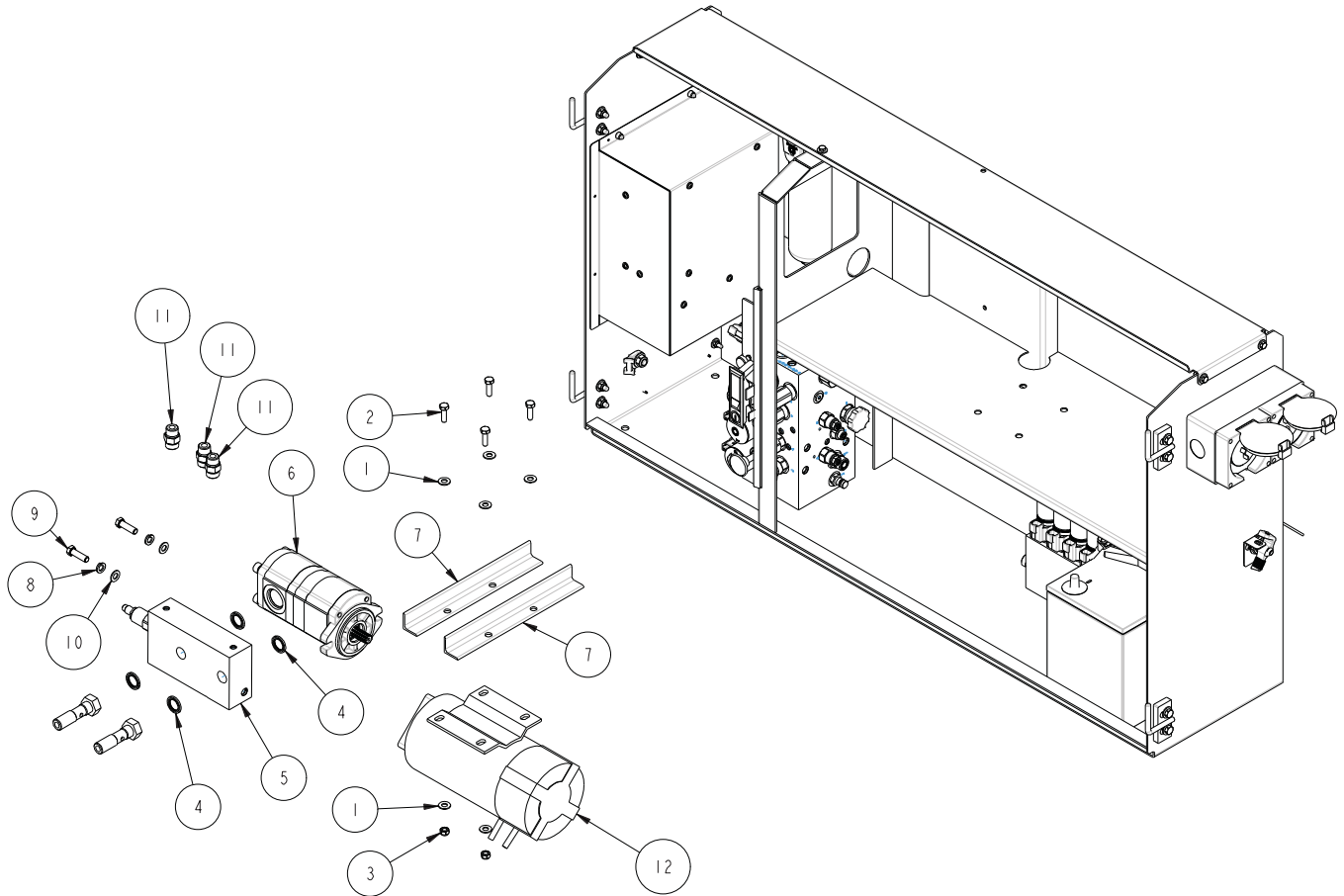


Item	Part No	Qty	Description
1	1814	1	Cable Gland
2	3603-05	4	Plain Washer
3	3604-05016	4	Machine Screw
4	3611-05	4	Metric Nylock Nut
5	10967-1	1	R.C.D
6	10967-2	1	Appliance Inlet
7	10967-3	1	PDL Enclosure



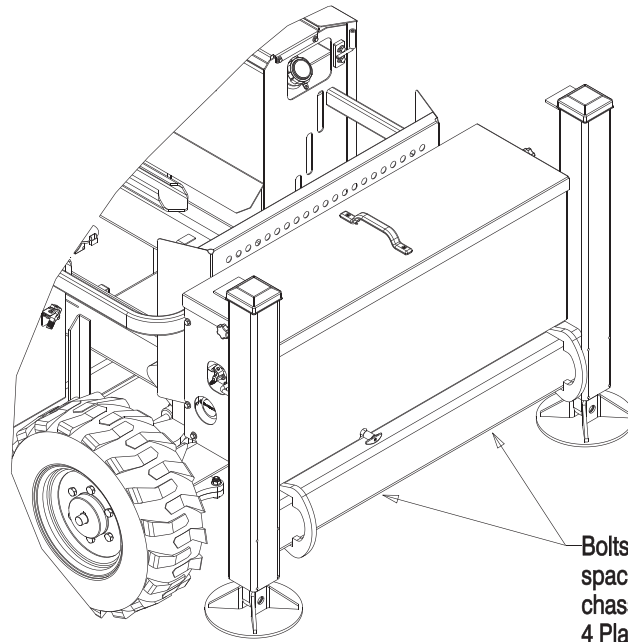
Item	Part No	Qty	Description
1	1807	1	Appliance Outlet
2	1814	2	Cable Gland
3	1865-001	1	PDL Switch
4	3603-05	4	Plain Washer
5	3604-05012	4	Pan Head Screw
6	3611-05	4	Metric Nylock Nut
7	10967-3	1	PDL Enclosure

24V DC Cabinet Assembly

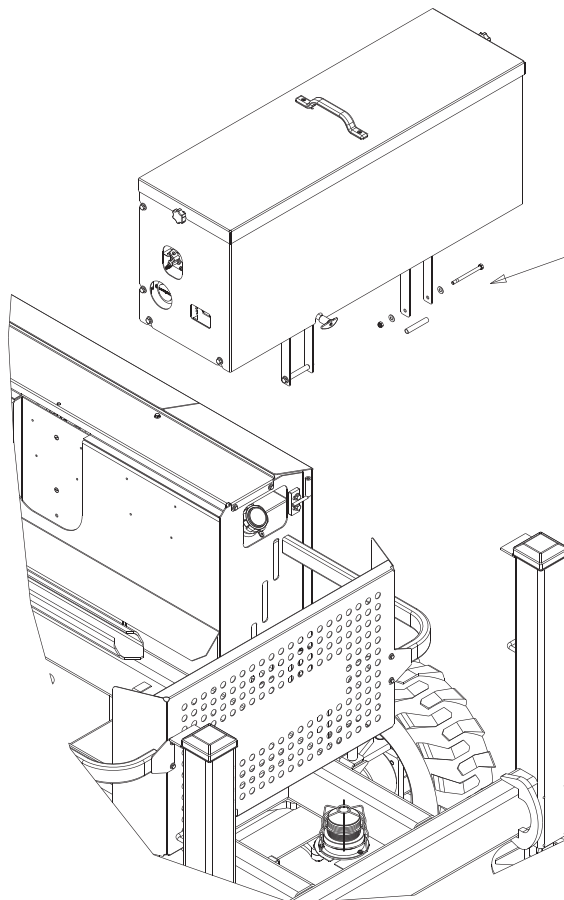


Item	Part No.	Qty.	Description
1	3603-08	26	Plain Washer
2	3610-08025	4	Metric Bolt
3	3611-08	13	Metric Nyloc Nut
4	7084-004	4	Dowty Seal- 1/2" BSP
5	13866	1	Manifold- Unloader Valve, SR V4
6	13868	1	Pump- SAE A, 4cc/4cc, CCW, 16-32 9T Spline
7	15005	2	Bracket- 24V Motor
8	60005-009	2	Spring Washer
9	60017-028	2	Bolt - UNC 3/8 X 1"
10	60030-049	2	3/8" Plain Washer
11	512970-000	3	Hyd Fitting- Straight ORFS(08)-SAE(08)
12	3087790	1	24VDC motor

Battery Box Mounting



Bolts and anti crush
spacers under
chassis RHS
4 Places



For mounting hardware information
refer to option exploded view

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Product Warranty

1) Snorkel warrants each new machine manufactured and sold by it to be free from defects in material and workmanship for a period of two (2) years from date of delivery to a Customer. The warranty will apply subject to the machine being operated in accordance with the rules, precautions, instructions and maintenance requirements outlined in the Snorkel Operator and Parts/Service manual.

2) Snorkel further warrants the structural components, specifically the mainframe chassis, turntable, booms and/or scissor arms of each new machine manufactured by it to be free from defects in material and workmanship for an additional period of three (3) years. Any such part or parts which, upon examination by the Snorkel Warranty department, are found to be defective will be replaced or repaired by Snorkel through its local Authorised Dealer. The structural warranty specifically excludes adverse effects on the machine structure arising from damage, abuse or misuse of the equipment.

3) Machines may be held in an authorised Distributor stock for a maximum of six (6) months from the date of shipment from Snorkel, before the warranty period is automatically initiated.

4) It is the responsibility of the Distributor to complete and return a Pre delivery /Warranty registration, before the act of rental / loan / demonstration of the machine or delivery to an end user.

5) The Customer and Dealer shall not be entitled to the benefits of this warranty and Snorkel shall have no obligations here under unless the "Pre-Delivery and Inspection Report" has been properly completed and returned to the Snorkel Warranty department within ten (10) days after delivery of the Snorkel product to the Customer or Dealer's demonstration / rental fleet. Snorkel must be notified, in writing, within ten (10) days, of any machine sold to a Customer from a Dealer's rental fleet during the warranty period.

6) Any part or parts which upon examination by the Snorkel Product Support Department are found to be defective within the specified warranty period, will be replaced or repaired at the sole discretion of Snorkel, through its local Authorised Distributor, at no charge.

Any parts replaced under warranty must be original Snorkel parts obtained through an authorised Snorkel Distributor unless expressly agreed otherwise in writing and in advance by Snorkel's warranty department.

7) All parts being claimed under warranty must be held available for return and inspection upon request for a period of 90 days from date of claim submission, it is necessary that all parts are individually tagged or marked with their part number and the warranty claim number. After 90 days all parts replaced under warranty which have not been returned to Snorkel should be destroyed. Failure to produce parts requested by the Warranty Administrator for inspection within a period of 14 days will result in the claim being automatically rejected in full. Materials returned for warranty inspection must have the following procedure :

Carefully packaged to prevent additional damage during shipping

Drained of all contents and all open ports capped or plugged

Shipped in a container tagged or marked with the RMA number

Shipped PREPAID. Any item(s) returned for warranty by any other means may be refused and returned, unless prior approval is agreed with Snorkel.



Product Warranty

8) At the direction of the Snorkel Warranty department, any component part (s) of Snorkel products to be replaced or repaired under this warranty programme must be returned freight prepaid for inspection. An RMA (Returns material authorisation) must be requested from Snorkel Warranty department, a copy to be placed with the returning component part(s)

9) All warranty replacement part will be shipped freight prepaid (standard charge) from the Snorkel Parts Service Department or from the Vendor to Dealer or Customer.

10) All warranty claims are subject to approval by Snorkel Service department. Snorkel reserves the right to limit or adjust claims with regard to defective parts, labour or travel time based on usual and customary guidelines.

REPLACEMENT PARTS WARRANTY

Any part replaced under this limited warranty is not subject to further warranty cover beyond the normal warranty period of the machine upon which the part was installed.

Any replacement parts sold (not delivered under a warranty claim) will be subject to a warranty period of (6) six months from the date of invoice.

Parts held by a Distributor are covered under warranty for a period of (12) twelve months from the date of invoice, provided that those parts have been subject to appropriate storage to prevent damage and deterioration.

CLAIM PROCEDURE

The Snorkel Warranty department must be notified within (48) forty-eight hours of any possible warranty situation during the applicable warranty period. Personnel performing major warranty repair or parts replacement must obtain specific approval by the Snorkel Warranty department prior to performing the warranty repair or replacement.

When a Distributor / Customer perceive a warranty issue to exist the following steps must be adhered to:

All warranty claims must be submitted within 30 days of the date of the machine repair

All correspondence in respect of the claim to be on an official Snorkel warranty claim form as supplied by Snorkel's warranty department

Allocate a warranty claim number to the repair

Place a purchase order for genuine Snorkel replacement parts

Snorkel to dispatch parts via the requested method (in line with the required response time)

Confirmation that a qualified technician is available to replace the part and that this person has been accepted by Snorkel to carry out such work under the warranty of the machine. Failure to do this may nullify the warranty.

FREIGHT DAMAGE

If a machine is received in a damaged condition, then the damage must be noted on the bill of lading and /or delivery documents and if possible photographs taken, prior to signing acceptance of the consignment.

The freight company must be contacted by the Distributor and a damage claim registered immediately.

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Product Warranty

THIS WARRANTY EXCLUDES AND SNORKEL DOES NOT WARRANT:

1. Engines, motors, tyres and batteries are manufactured by suppliers to Snorkel, who furnish their own warranty. Snorkel will, however, to the extent permitted; pass through any such warranty protection to the Distributor / Customer.
2. Any Snorkel product which has been modified or altered outside Snorkel factory without Snorkel written approval, if such modification or alteration, in the sole judgment of Snorkel Engineering and/or Service Departments, adversely affects the stability, reliability or service life of the Snorkel product or any component thereof.
3. Any Snorkel product which has been subject to misuse and abuse, improper maintenance or accident. "Misuse" includes but is not limited to operation beyond the factory-rated load capacity and speeds. "Improper maintenance" includes but is not limited to failure to follow the recommendations contained in the Snorkel Operation, Maintenance, and repair Parts Manuals.
4. Normal wear of any Snorkel component part(s). Normal wear of component parts may vary with the type, application or type of environment in which the machine may be used; such as, but not limited to sandblasting applications
5. Routine maintenance, routine maintenance items and minor adjustments are not covered by this warranty, including but not limited to hydraulic fluid, filters and lubrication, paint and decals.
6. Any Snorkel product that has come into direct contact with any chemical or abrasive material.
7. Incidental or consequential expenses, losses, or damages related to any part or equipment failure, including but not limited to freight cost to transport the machine to a repair facility, downtime of the machine, lost time for workers, lost orders, lost rental revenue, lost profits, expenses or increased cost. This warranty is expressly in lieu of all other warranties, representations or liabilities of Snorkel, either expressed or implied, unless otherwise amended in writing by Snorkel
8. Snorkel Warranty policy does not cover any duties, taxes, environmental fees including without limitation, disposal or handling of tyres, batteries and petrochemical items.
9. Item specifically excluded are, fuel injectors, motor brushes, glow plugs, contactor tips and springs, oil filters, lamp bulbs, lamp lenses, o rings, coolants, lubricants and cleaning material.
10. Failure of replacement parts due to fault misdiagnosis or incorrect fitting by the Distributor / Customer

**SNORKEL MAKES NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION OF THIS LIMITED WARRANTY
SNORKEL MAKES NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE
AND DISCLAIMS ALL LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT
LIMITED TO INJURY TO PERSONS OR PROPERTY.**

The Customer shall make all warranty claims through its local Authorised Dealer and should contact the Dealer from whom the Snorkel product was purchased for warranty service. Or, if unable to contact the Dealer, contact the Snorkel Service Department for further assistance



Product Warranty

APPEAL

The buyer may appeal in writing against a rejected or adjusted claim to Snorkel warranty department within a period of 21 days of receiving the rejection or adjustment notice. The appeal should be grounded on express reasons and supported by relevant evidence. Appeals received outside of this time limit will not be considered.

WARRANTY SCHEDULE

Limited Warranty Periods

<u>Item</u>	<u>Warranty Period</u>
New machine materials and workmanship	2 years parts replacement
Structural components (Chassis, Turntable, Booms, Scissors)	5 years parts replacement or repair
Parts held in a Distributor's stock	12 months from date of invoice
Parts sold (non warranty)	6 months from date of invoice
Batteries	6 months from warranty registration date
Other specifically excluded parts: Fuel injectors Motor brushes Glow plugs Contactor tips and springs Oils Filters Lamp bulbs Lamp lenses 'O' rings Coolants Lubricants Cleaning materials	Not covered by Warranty

**Local Distributor / Lokaler Vertiebshändler / Distributeur local
El Distribuidor local / Il Distributore locale**

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