Ssnorkel

S2770RT S3370RT



REPAIR PARTS MANUAL

Part Number 12696B March 2011

Serial number 000000 and after

LIMITED WARRANTY

Snorkel warrants each new machine manufactured and sold by it to be free from defects in material and workmanship for a period of one (1) year from date of delivery to a Customer or for one year after the machine has been placed in first service in a Dealer rental fleet, whichever comes first. Any part or parts which, upon examination by the Snorkel Service Department, are found to be defective, will be replaced or repaired, at the sole discretion of Snorkel, through its local Authorized Dealer at no charge.

Snorkel further warrants the structural components; specifically, the mainframe chassis, turntable, booms and scissor arms, of each new machine manufactured by it to be free from defects in material and workmanship for an additional period of four (4) years. Any such part or parts which, upon examination by the Snorkel Service Department, are found to be defective will be replaced or repaired by Snorkel through its local Authorized Dealer at no charge; however, any labor charges incurred as a result of such replacement or repair will be the responsibility of the Customer or Dealer.

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

Customer and Dealer shall not be entitled to the benefits of this warranty and Snorkel shall have no obligations hereunder unless the "Pre-Delivery and Inspection Report" has been properly completed and returned to the Snorkel Service Department within ten (10) days after delivery of the Snorkel product to Customer or Dealer's 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.

At the direction of the Snorkel Service Department, any component part(s) of Snorkel products to be replaced or repaired under this warranty program must be returned freight prepaid to the Snorkel Service Department for inspection. All warranty replacement parts will be shipped freight prepaid (standard ground) from the Snorkel Service Department or from Snorkel's Vendor to Dealer or Customer.

REPLACEMENT PARTS WARRANTY

Any replacement or service part made or sold by Snorkel is not subject to the preceding **Limited Warranty** beyond the normal warranty period of the machine upon which the part was installed.

THIS WARRANTY EXCLUDES AND SNORKEL DOES NOT WARRANT:

- 1. Engines, motors, tires and batteries which 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 Customer or Dealer.
- 2. Any Snorkel product which has been modified or altered outside Snorkel's factory without Snorkel's written approval, if such modification or alteration, in the sole judgment of Snorkel's 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, 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, Repair Parts Manuals. Snorkel is not responsible for normal maintenance, service adjustments and replacements, including but not limited to hydraulic fluid, filters and lubrication.
- 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. Any Snorkel product that has come in direct contact with any chemical or abrasive material.
- 6. 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 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's President, Vice President-Engineering, Vice President-Sales or Vice President-Marketing.

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 Authorized 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.

Effective July 1995

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■ General Specifications SR3370

SPECIFICATIONS	SRS	3370
Nominal working height	12.12m	39' 2"
Roll out deck size	1200mm	48"
Drive speed (below 2.4m)	0 to 4.5kph	0 to 2.8mph
Drive speed (above 2.4m)	0 to 0.35kph	0 to 0.22mph
Safe working load - Main deck (Roll out deck not extended)	450kg	990lbs
Safe working load - Main deck Roll out deck extended - Roll out deck	330kg 120kg	726lbs 264lbs
Platform size	2.73 x 1.65m	8' 11" x 5' 5"
Stowed height	2.7m	8' 10"
Stowed height (hand rails folded down)	2.0m	6' 6"
Overall length	3.36m	11' 0"
Overall width	1.77m	5' 9"
Gradeability	35%	
Lift time	50 seconds	
Turning radius (inner)	2.38m	7' 8"
Turning radius (outer)	4.75m	15' 6"
Maximum wind speed (12.5m/s)	45km/h	28mph
Insulation rating	Nil	
Tyres - Poly filled loader lug	der lug 27" x 10.5" x 15"	
Overall weight	3620kg	7964lbs
Ground clearance	350mm	13.8"
Maximum sound level at platform	86	6db

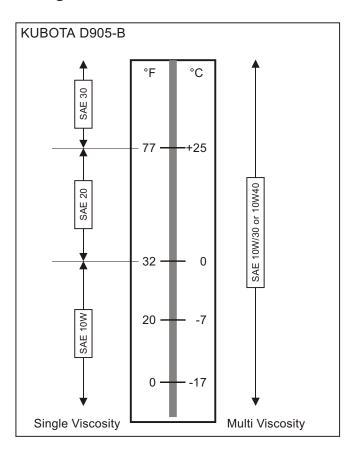
■ General Specifications SR2770

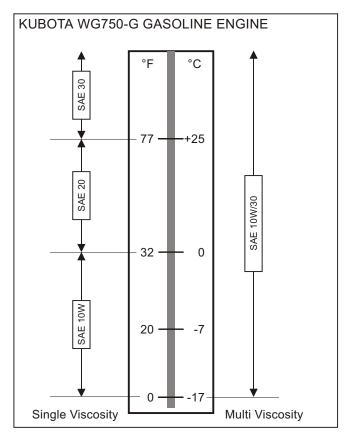
SPECIFICATIONS	SR2	770	
Nominal working height	10.28m	33' 9"	
Roll out deck size	1200mm	48"	
Drive speed (below 2.4m)	0 to 4.5kph	0 to 2.8mph	
Drive speed (above 2.4m)	0 to 0.9kph	0 to 0.6mph	
Safe working load - Main deck (Roll out deck not extended)	580kg	1280lbs	
Safe working load - Main deck Roll out deck extended - Roll out deck	460kg 120kg	1015lbs 265lbs	
Platform size	2.73 x 1.65m	8' 11" x 5' 5"	
Stowed height	2.5m	8' 2"	
Stowed height (hand rails folded down)	1.7m	5' 8"	
Overall length	3.36m	11' 0"	
Overall width	1.7m	5' 8"	
Gradeability	35%		
Lift time	26 seconds		
Turning radius (inner)	2.38m	7' 8"	
Turning radius (outer)	4.75m	15' 6"	
Maximum wind speed (12.5m/s)	45km/h	28mph	
Insulation rating	Nil		
Tyres - Poly filled loader lug 27" x 10.5" x 15"		.5" x 15"	
Overall weight	2800kg	6272lbs	
Ground clearance	350mm 13.8"		
Maximum sound level at platform	86db		

■ Engine Data

ENGINE MAKE	KUBOTA(gasoline)	KUBOTA (LPG)	KUBOTA (diesel)
Model	WG750-G		D905-B
Fuel	gasoline	LPG	diesel no. 2-D
Fuel Grade	Unleaded 85 octane (motor method) Do not use gasoline blended with methyl alcohol.	HD5 Gas Processors Association Standard 2140 Category: special dual propane	ASTM no. 2-D ASTM D975 centane no. > 44 (For operating temp. below 32°F (0°C) use "winterized" no. 2-D.)
Coolant	50% water + 50% ethylene glycol		
Operating Temperature	180°F - 205°F(82°C - 96°C)		
Oil Capacity	3.5 qt USA (3.25 liters)		5.2 qt USA (5.1 liters)
Oil Grade	API: SF, SF/CD		API: C/CD/CE
Oil Weight	see chart below		
Running Time (one tank of fuel)	A full tank of gasoline or diesel, will last an entire eight hour shift, under normal working conditions. It normally takes two tanks of LPG per eight hour shift.		

■ Engine Oil Charts





■ 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 22 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 SR3370 & SR2770.

☐ Maintenance

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

□ Auto level system

The last section in the Maintenance chapter gives guidelines for trouble shooting and calibration of the auto level 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.

☐ Parts index - Page locator

The parts index - page locator, identifies the component by name and directs you to the section and page number where you may find information for that part such as its part order number, etc.

■ 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.

ACAUTION

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.

ACAUTION

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.

Maintenance Information

The following list is a gentle reminder when them from unit. This will assure that they are 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.
- ✓ 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.

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

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.

Replace all O-rings, seals, and gaskets at 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

ADANGER

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
Fuel level	Visually inspect
Water separator (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)
Platform entrance gate	Visually inspect (installation, operation)
Wiring harness and connectors	Visually inspect (installation, condition)
Battery terminals	Visually inspect (installation)
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	Visually inspect (condition)
Bubble level indicator	Visually inspect (condition)
Guides, rollers and slides	Visually inspect (condition)
START THE ENGINE FROM THE BASE CONTROL PAN	NEL TO CHECK THE FOLLOWING
Charging system	Check condition (gauge)
Level sensor	Check operation
Control switches and alarms	Actuate and inspect (operation)
Emergency lowering	Check operation (causes correct motion)
Air Filter	Check condition (gauge)
Safety prop	Check operation
Parking brakes	Check operation
Placards, decals and Operator's Manual	Visually inspect (installation, condition)
Optional items	Check operation

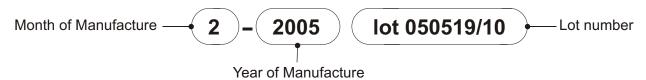
■ Hydraulic Hose Age

EN982 Clause 7.3.1 requires the manufacturing date of each hydraulic hose to be clearly visible on the hose.

Hoses used in production of this unit are manufactured by Hydraulink and the manufacturing date is present in a coded format.

The key to decode the date is as follows:

Sample Hose Code 2-2005 lot 050519/10

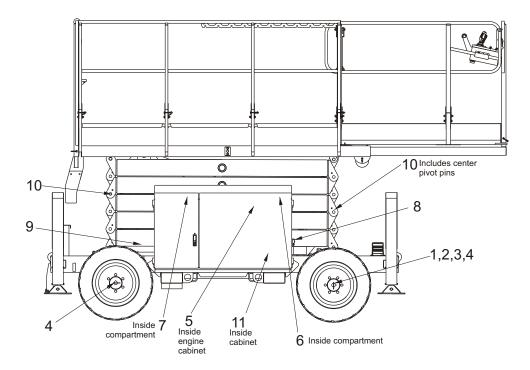


■ 90 Day or 150 Hour Maintenance (Trained Service Technician)

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	DO NOT lubricate
Steer cylinder ends	Check pin keeper and condition	DO NOT lubricate
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	Check condition	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	DO NOT lubricate
Scissor arm bearings	Check condition	DO NOT lubricate

■ 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	
Wheel bearings	Clean and repack	Conoco Super Sta #2 Above 32° Mobilgrease CM-P Below 32° Mobilgrease CM-L



The drawing locates the lubrication points of the SR

■ 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 and lubrication drawing. Wipe away all excess lubricant from exposed surfaces. Over lubrication can collect dirt and foreign matter which acts as an abrasive. Lubrication of accessory equipment should be in accordance with the manufacturer's recommendations.

NOTE

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

ADANGER

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.

□ Lubrication

Refer to the above lubrication drawing for location of the following item numbers.

☐ King pins (Item 1)

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

DO NOT lubricate

☐ Tie rods (Item 2)

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

DO NOT lubricate

☐ Steer cylinder end (Item 3)

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

DO NOT lubricate

☐ Wheel bearings Drive wheels (Item 4)

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

Maintenance Information

☐ Engines (Item 5)

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.

ACAUTION

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 warrenty and repair of any failure resulting from improper maintenance could be at your own expense.

☐ Hydraulic oil reservoir (Item 6)

The fluid level should be kept level with the indicator line on the side of thereservoir 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.

ACAUTION

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 (Item 7)

On SR scissorlift models, the hydraulic oil return filter is mounted in the right 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 excessive wear in some of the system components.

□ Door hinges and latches (Item 8)

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 (Item 9)

Check slide pads for excessive wear and replace as required.

Slide pads **DO NOT** require lubrication.

☐ Scissor arm bearings (Item 10)

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

DO NOT lubricate scissor arm bearings.

■ Batteries (Item 11)

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.

ADANGER

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.

ADANGER

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

■ Preventive inspection maintenance 90 day or 150 hour checklist

	o day or roo modi oncomist
ОК	OK - No Service Required

Corrective Action RequiredCorrected, (Record description of corrective action).

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	✓	Χ
BASEFRAME			
Structural (1)			
Steering cylinders (2,3,4,6)			
Steering cylinder fasteners and linkage (2,4)			
Tires and wheels (5)			
Articulating axles, if so equipped (2,4,5)			
Tray side covers (2,5,6)			
Torque drive wheel lug nuts 65 ft. lbs. (2,6)			
Torque steer wheel lug nuts 65 ft. lbs. (2,6)			
Right drive motor(s) (3,6)			
Left drive motor(s) (3,6)			
Drive cut-out			
Back-up horn (4)			
Guides, rollers and slides (2,4,5)			
Parking brake(s) (3,4)			
Free wheeling valve (3,4)			
Emergency lowering valve (3,4)			
Lowering alarm (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)			
OUTRIGGERS AND CONTROLS			
Right front outrigger (2,3,4)			
Left front outrigger (2,3,4)			
Right rear outrigger (2,3,4)			
Left rear outrigger (2,3,4)			
Platform elevated, outrigger controls			
DO NOT WORK (4)			
Outriggers lowered, platform elevated DRIVE WILL NOT WORK (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)			

CHECK	OK	✓	Х
BASE CONTROL STATION			
Key switch, main power ON - OFF (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)			
Toggle switch, platform UP - DOWN (4)			
Key start switch (4)			
Toggle switch, glow plug, timing light diesel units only (4)			
Fuel select switch GAS - LP FUEL (4)			
Emergency stop switch (4)			
Hour meter (4)			
Circuit breaker reset (4)			
Lowering alarm (4)			
Engine kill alarm (4)			
Low oil pressure alarm (4)			
High temperature alarm (4)			
Lift enable light (4)			
PLATFORM			
Structural (1)			
Guardrails properly installed and fastened (2,5)			
Platform entrance chain or 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			
Drive speed - platform elevated SLOW DRIVE SPEED ONLY (4)			
Drive speed - platform lowered DRIVES FAST or SLOW (4)			
Joystick control - DRIVE/STEER and PROPORTIONAL LIFT (4)			
Toggle type selector switch - HIGH SPEED/HIGH TORQUE (4)			
Toggle type selector switch - LIFT/DRIVE (4)			
Low engine oil light (4)			
Engine start/kill switch (4)			
Lift enable light, if so equipped (4)			
Raised platform drive enable light, if so equipped (4)			
Emergency stop button (4)			
Joystick interlock switch (4)			
Selector switch - ALTERNATOR/MACHINE Units equipped with optional AC alternator (4)			
	+		
	\perp		
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CHECK	OK	✓	Χ
ENGINE			
Air filter (5)			
Belts and hoses (5)			
Hydraulic pump (4)			
Engine oil (5)			
Engine START - STOP (4)			
Electric throttle (4)			
Engine coolant level (5)			
Fuel system (3)			
Fuel tank (3,5)			
ELECTRICAL			
Batteries (2,4)			
Battery terminals (5,6,7)			
Battery electrolyte level (5)			
Battery specific gravity reading (5)			
Wires and cables (2,5,6)			
Battery disconnect switch (4)			
Level sensor (2,4,5)			
Motion warning alarm (2,4)			

CHECK	OK	✓	Χ
HYDRAULIC RESERVOIR & RETURN FILTER			
Translucent hydraulic oil reservoir (3,5)			
Filler/breather cap (6)			
Hydraulic fluid level (2,5)			
Return filter (2,5,6)			
Return filter element (5)			
OPTIONAL EQUIPMENT			
AC 110/220 volt outlet on platform (2,4)			
Propane tank(s) - dual fuel units only (2,5)			
Flashing light (2,4)			

Corrective Action Required		
Note: If correction action is required on any item, attach sheet indicating problem and action taken.		
All items have been properly checked and tested and found to be operating satisfactory or necessary corrective action has been completed.		
Inspected By: Date		

■ Torque chart

	TENSILE	PROPE	ERTY CLASS	8.8	PROPER	RTY CLASS	10.9
NOM SIZE X	STRESS CLAMP		TORQUE (N.m)		CLAMP	TORQUE (N.m)	
PITCH	A _s (mm ²)	LOAD W (N)	DRY k=0.20	LUBED k=0.15	LOAD W (N)	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 (M8.8) (M10.9) (M12.9)							

■ Servicing STC Fittings

AIMPORTANT

These units use Aeroquip STC hydraulic fittings. Please read the following service information before undertaking any disassembly or service work on these fittings.

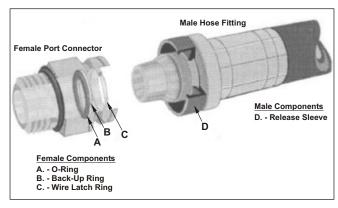


Figure 1. - STC Components

NOTE:

An STC release tool kit is available from Snorkel, Part Number 12791K

□ Disconnection

ADANGER

Remove pressure from the system before attempting to disconnect these fittings in order to avoid forceful ejection of the fitting, which could result in personal injury.

- Some fluid may still be in the system.
 Minimise fluid loss by draining the fluid from the system components prior to disconnection.
- 2. Prior to disconnection, clean the area around the fitting with a clean cloth, or, using an airgun blow dirt and debris from the release sleeve area.
- To help avoid release sleeve tearing create a release tool insertion gap by moving the sleeve in the release direction. (see Figure 2). This can be done either by hand or by using a single prong of the release tool.
- 4. Insert the release tool behind the release sleeve D (see Figure 1) and pull the hose assembly out from the mating STC connector (leaving the release tool inserted will aid disassembly). Do not pry on the fitting with the release tool. (See Figure 2).

 If a release tool is not available, a thin blade screwdriver may be used (larger fitting sizes may require two screwdrivers). Follow step 4 above.

Use with care - a screwdriver could damage the release sleeve.

☐ Inspection

- 1. STC Fittings are designed to be connected and disconnected repeatedly without replacing the O-Ring and Back-Up-Ring, unless leakage or damage is observed.
- 2. Inspect mating STC fittings to ensure they are in good condition, clean and free of contaminants, nicks, scratches, flatspots etc.
- 3. Check the Wire Latch Ring **C** (see Figures 1 and 3) to ensure that it is in the proper position in the female STC connector prior to installation or reconnection.
- 4. Check the O-Ring A to ensure it is not cut or otherwise damaged prior to installation or reconnection.
- 5. Check the Back-Up-Ring **B** to ensure it is not damaged. Verify that it is at the front of the O-Ring groove prior to reconnecting the fitting.

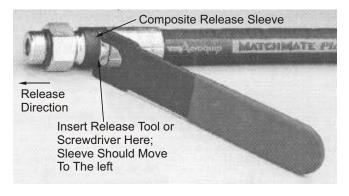


Figure 2. - STC Assembly

ACAUTION

If leakage is observed, and the fittings are in otherwise good condition, a seal replacement kit must be installed or the fitting must be replaced!

If seals are not replaced, a decrease in system performance or damage to the system components may result.

☐ Installation and connection

 Install the STC port connector into the mating port carefully. Follow recommended installation procedures for the applicable port fittings. Align the STC fitting on the hose assembly with the STC connector, and push the hose fitting into the mating STC connector until you feel a definite snap and a solid stop.

ACAUTION

Pull back on the hose assembly to verify that a proper connection has been made. An improper connection may result in a sudden assembly failure with a potential for personal injury.

☐ Seal replacement instructions

- Inspect the O-Ring A in Female STC connectors.
- 2. Carefully remove the O-Ring **A** and Back-Up Ring **B** with an O-Ring pick without damaging the interior surfaces of the fitting.
- 3. Inspect the interior surfaces and groves of the fitting and ensure they are free of foreign material, nicks, scratches, or dents.

AIMPORTANT

Any damaged O-Ring must be replaced with a new O-Ring and Back-Up Ring using only genuine Aeroquip parts.

Any damaged fitting must be replaced with a new part to avoid leakage.

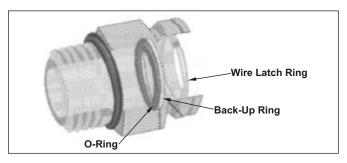


Figure 3. - Female Port Connector

- 4. If undamaged, clean the fitting and install Back-Up Ring **B** at the front of the O-Ring groove.
- 5. Install the new O-Ring A in the groove behind the Back-Up Ring B and inspect to ensure O-Ring and Back-Up Ring are secure in the groove. Lubricate the O-Ring with a lubricant which is compatible with the system fluid.

AIMPORTANT

Inspect to verify proper location of O-Ring in the connector (See Figure 3). Leakage could occur if installed incorrectly.

- If the Wire Latch Ring C is damaged, carefully remove the Latch Ring without damaging the interior surfaces of the connector.
- 7. Carefully insert the new Wire latch Ring in the Latch Ring groove. The Latch Ring should be able to rotate in the groove.
- 8. Inspect and reinstall the connector. Follow the installation / connection steps for reinstallation.

■ Auto Level System Troubleshooting

If the auto level system fails to level the machine there could be electrical or hydraulic problems.

If the lift enable light comes on but the machine is not level or the auto level board has been removed or replaced the unit will need to be re-calibrated.

An EZcal is required to do this.

□ Test procedures

- 1. Remove the stabiliser cylinder covers.
- Verify that the micro switches are working by operating them by hand. An EZcal can be plugged into the auto level board to verify the signals are reaching the board.
- 3. Verify that electrical signals are being sent from the auto level board to the stabiliser valves when auto level is selected.

 There should be approximately 12 volts across each leg coil and the stabiliser divert valve when auto level is selected.
- 4. Verify the hydraulic system by manually powering the stabiliser divert valve at each leg coil individually with the engine running. Each leg should move both up and down.

☐ Using the EZcal

 Plug EZcal into the P1 port of the auto level board (see Figure 1.), and turn on the ignition of the SR.



Figure 1.

NOTE:

The EZcal is a menu driven measuring and calibration device. Use the **four arrow keys** to scroll through menus and levels within menus, the **enter key** to enter/confirm data, and the **escape key** to cancel an operation or return to a previous menu level.

AWARNING

Incorrect use of the EZcal could lead to safety issues and result in damage to the machine.

Ensure that you carefully follow the procedures set out below.

2. The display screen will show the following information (See Figure 2.).

GP122 MENU: HELP:PRESS ENTER

Figure 2.

- 3. Use the [RIGHT ARROW] to scroll through to [DIAGNOSTICS] then press [ENTER].
- 4. Use the [RIGHT ARROW] to scroll to [SWITCHES] and press [ENTER].

NOTE:

The designations LR, RR, RF, and LF used subsequently refer to leg positions with respect to the auto level board <u>not</u> the position on the machine (see Figure 3.).

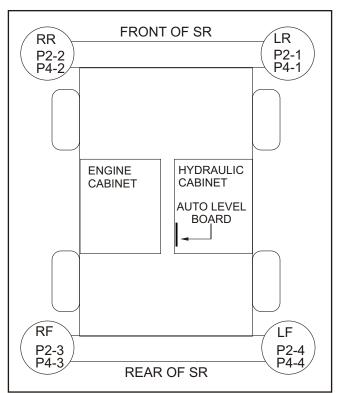


Figure 3.

Maintenance Information

- 5. LR / P2-1 will appear in the display: High will be displayed when the left rear outrigger is in contact with the ground and Low will be displayed when it is not. Verify this by operating the micro switch. The value should change from Low to High
- 6. Use the [RIGHT ARROW] to select **RR** / **P2-2**:

High will be displayed when the *right rear* outrigger is in contact with the ground and **Low** will be displayed when it is not. Verify this by operating the micro switch. *The value should change from Low to High*

7. Use the [RIGHT ARROW] to select **RF** / **P2-3**:

High will be displayed when the *right front* outrigger is in contact with the ground and **Low** will be displayed when it is not. Verify this by operating the micro switch. *The value should change from Low to High*

8. Use the [RIGHT ARROW] to select **LF** / **P2-4**:

High will be displayed when the *left front* outrigger is in contact with the ground and **Low** will be displayed when it is not. Verify this by operating the micro switch. *The value should change from Low to High*

Use the [RIGHT ARROW] to select Extend / P2-5:

High will be displayed when the *auto level* switch is activated and **Low** will be displayed when it is not.

10. Use the [RIGHT ARROW] to select **Retract** / **P2-6**:

High will be displayed when the *auto stow switch* is activated and **Low** will be displayed when it is not.

NOTE:

If none of the above indicates a problem contact Snorkel or your local service agent.

☐ EZcal auto level calibration procedure

ADANGER

Under no circumstances change any other parameter of the auto level board (other than those specified here) without permission from Snorkel International.

Death or personal injury and serious damage to the machine can result from altering parameters beyond those specified.

- 1. Manually level the machine on its stabilisers.
- 2. Plug the EZcal into the auto level board (see Figure 1)
- 3. Turn on the SR ignition.
 The display screen will show:

GP122 MENU: HELP:PRESS ENTER

4. Press the [RIGHT ARROW] twice to scroll to the Access Level 3 screen.
The display will show:

GP122 MENU: ACCESS LEVEL 3

5. Press [ENTER]
The display screen will show:

ACCESS LEVEL: CODE 0000

6. Use the [UP & DOWN ARROWS] to change the numbers and the [LEFT & RIGHT ARROWS] to change the cursor position. Change the code '0000' to the correct code to reach access level 1. Press [ENTER]

Press [ENTER]

The display screen will show:

GP122 MENU: ACCESS LEVEL 1

7. Press [RIGHT ARROW] twice to display machine setup
The display screen will show:

GP122 MENU: MACHINE SETUP

8. Press [ENTER]
The display screen will show:

MACHINE SETUP: CHANGE DEFAULTS

Press [ENTER] The display screen will show:

DEFAULTS: 1=SR2770

10. Only one machine type at a time will show on the screen.

Use the [UP & DOWN ARROWS] to select the correct machine type (the full list is shown below).

0=MHP

1=SR2770

2=SR3370

3=SR3370eu

4=SR2255

5=SR2755

A DANGER

Death or personal injury and serious damage to the machine <u>can result from</u> <u>selecting the incorrect machine type</u>.

ENSURE that the machine type you selected at the above step is the one you are carrying out the auto level calibration on.

11. Press [ESC]

The display screen will show:

MACHINE SETUP: CHANGE DEFAULTS

12. Press the [RIGHT ARROW] to select the calibrate level function.

The display screen will show:

MACHINE SETUP: CALIBRATE LEVEL

13. Press [ENTER].

The display screen will show:

CALIBRATE LEVEL: YES:ENTER.NO:ESC

14. Press [ESC] to abort the calibration or [ENTER] to proceed with the calibration process.

If [ENTER] is selected the display screen should show:

CALIBRATE LEVEL: TILT 0.0'.0.0'

- 15. Values should now read approximately 0.0, 0.0. If they do not repeat from step 13.
- 16. Switch the ignition off and on again.
- 17. Check that the machine now levels correctly.

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Maintenance Information

■ To order service or repair parts

When placing an order for service or repair parts, Manuals are available from Snorkel to support any please have the following information available for of the machines that we produce. 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 36 Bruce Road P.O. Box 1041 Levin 5500 New Zealand

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

Attention: Parts Department

20335 Ventura Blvd. Suite 310

Woodland Hills, CA 91364-2471 USA

☐ Manuals

The specific manuals for SR3370 - SR2770 are as follows:

- ✓ Operator's Manual Snorkel part number - 12696A
- √ Repair Parts Manual Snorkel part number - 12696B

Record machine information here:

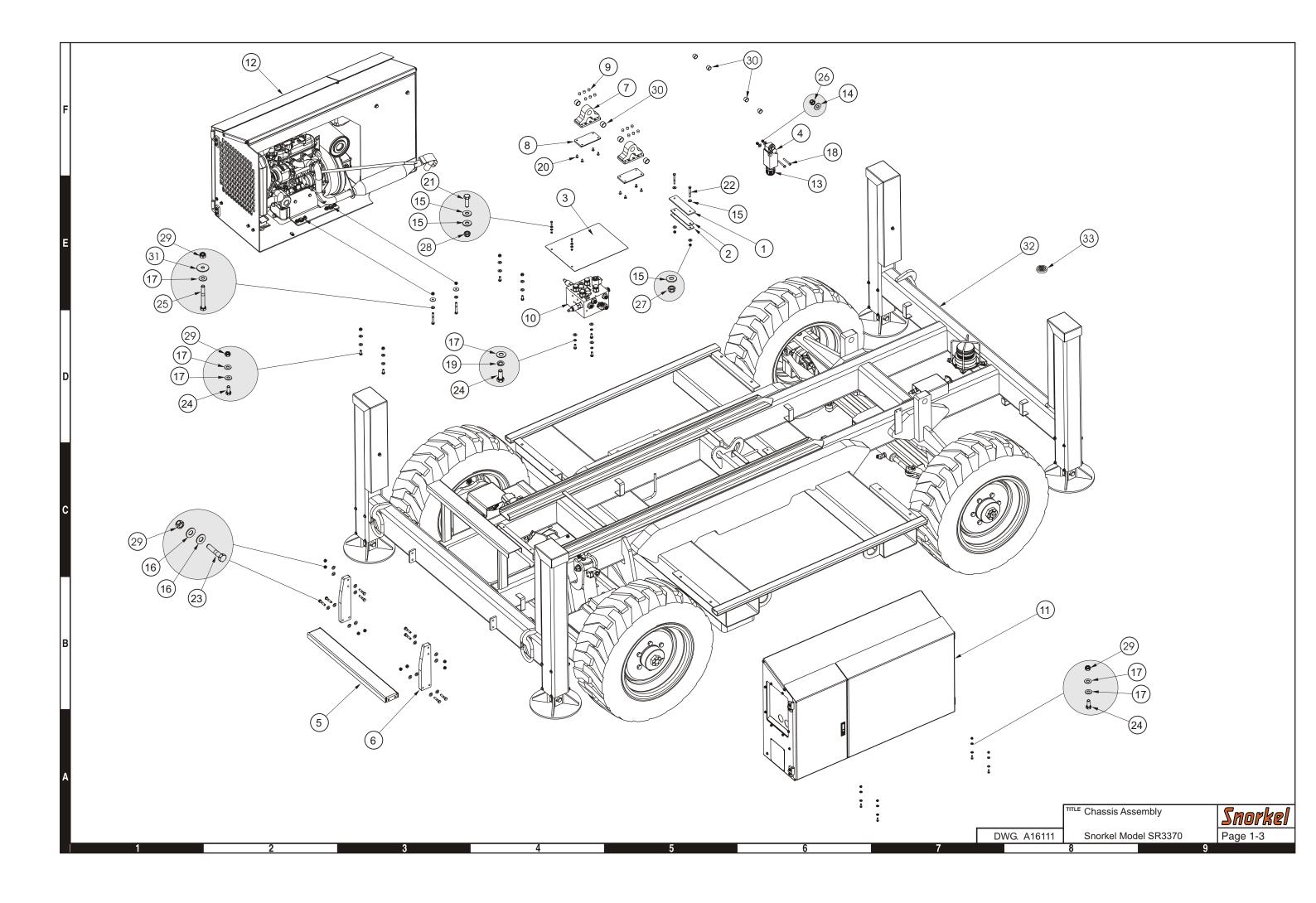
* This information is found on the serial number placard

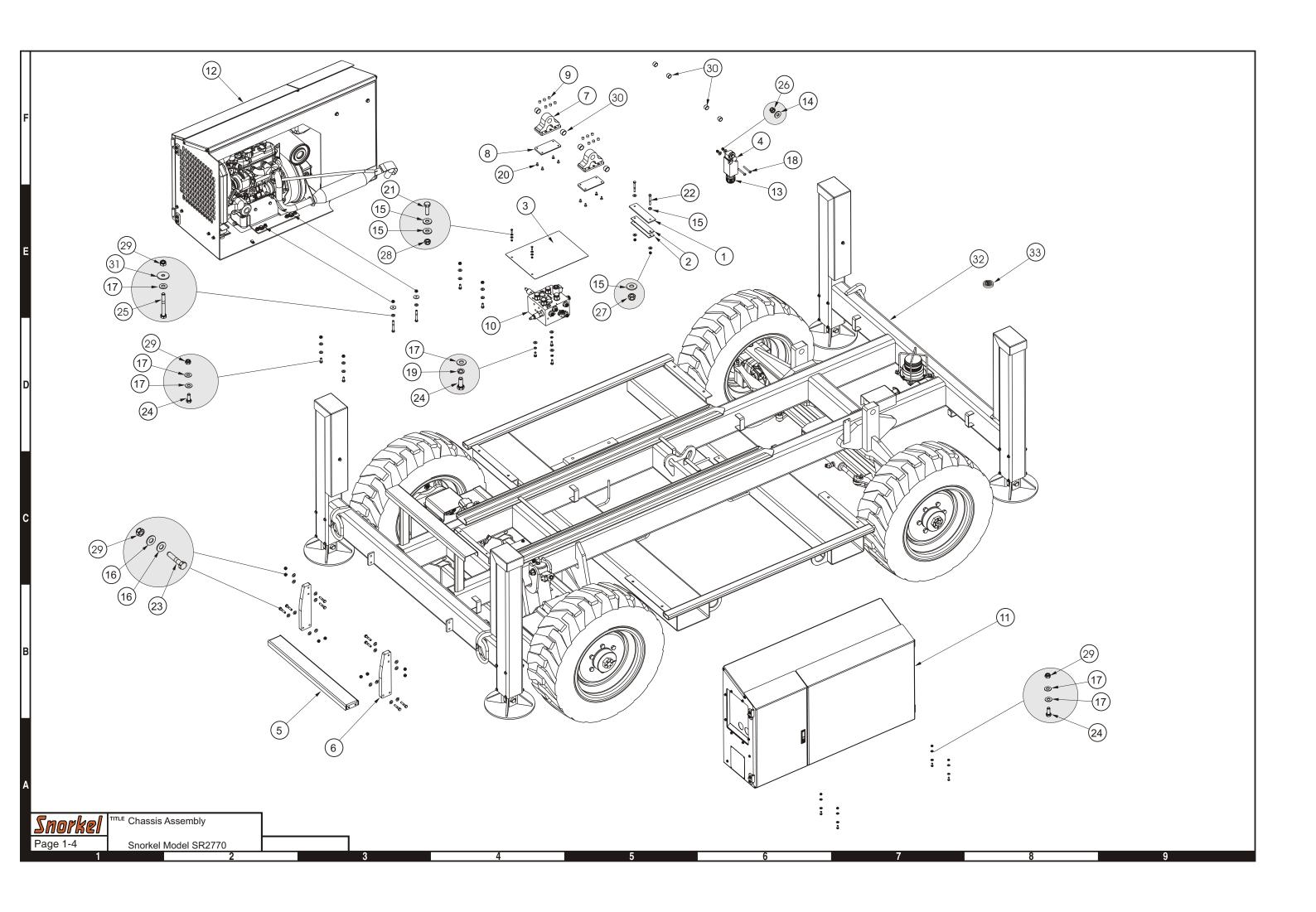
attached to your machine.

□ ANSI and OSHA compliance	Model number*		
All owners and users of the aerial platform must read, understand, and comply with all applicable regulations. Ultimate compliance to OSHA regulations is the responsibility of the user and their employer.	Serial number*		
ANSI publications clearly identify the responsibilities of all personnel who may be involved with the aerial platform. A reprint of the	Date of purchase		
"Manual of Responsibilities for Dealers, Owners, Users, Operators, Lessors and Lessees of ANSI/SIA A92.5-1992 Boom-Supported Elevating Work Platforms" is available from Snorkel dealers or	Purchased from		
from the factory upon request.			
Copies are also available from:	Snorkel dealer or distributor		
Scaffold Industry Association	*This information is found on the control or make and		

Chassis assembly SR3370	. 1-2
Chassis assembly drawing SR3370	. 1-3
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Chassis assembly SR2770	. 1-5
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Steer axle assembly drawing	. 1-7
Drop axle assembly drawing	. 1-8
Drop axle assembly	. 1-9
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drawing SR3370	1-15
Cable operated emergency bleed down	
drawing SR2770	
Cable operated emergency bleed down SR2770.	
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Scissor arm assembly SR2770	
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Outrigger Installation - drawing	
Platform assembly drawing	
Platform assembly	
Platform assembly	
Fuel tank assembly, diesel fuel	
Engine assembly, Kubota D905	
Engine assembly, Kubota D905 drawing	
Upper control box mounting assembly	
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Placards and decals drawing	1-33

Item	Part No	Qty	Description
1.	11662-1	1	Clamp bar
2.	11662-2	2	Rubber packing
3.	11683	1	Cover, drive valve
4.	12445	1	Micro switch
5.	12554-5	1	Step foldment
6.	12554-6	2	Rubber step hanger
7.	12566	2	Sliding block weldment
8.	12566-2	2	Wear pad, slider block base
9.	12566-3	12	Wear pad, slider block top
10.	12569	1	SR manifold drive block
11.	12716A	1	Cabinet assembly, control side
12.	12717A	1	Cabinet assembly, engine side
13.	1814	1	Nylon cable gland
14.	3603-04	2	Plain washer
15.	3603-06	8	Plain washer
16.	3603-08	16	Plain washer
17.	3603-10	21	Plain washer
18.	3604-04035	2	Screw, pan head
19.	3605-10	3	Spring washer
20.	3606-06016	8	Cap screw, counter sunk
21.	3610-06020	2	Bolt
22.	3610-06050	2	Bolt
23.	3610-08040	8	Bolt
24.	3610-10025	11	Bolt
25.	3610-10080	2	Bolt
26.	3611-04	2	Nyloc nut
27.	3611-06	2	Nyloc nut
28.	3611-08	8	Nyloc nut
29.	3611-10	10	Nyloc nut
30.	3624-3	8	Bush
31.	5560179	2	Washer, special
32.	12554	1	Chassis weld
33.	1273-1	1	Bubble level

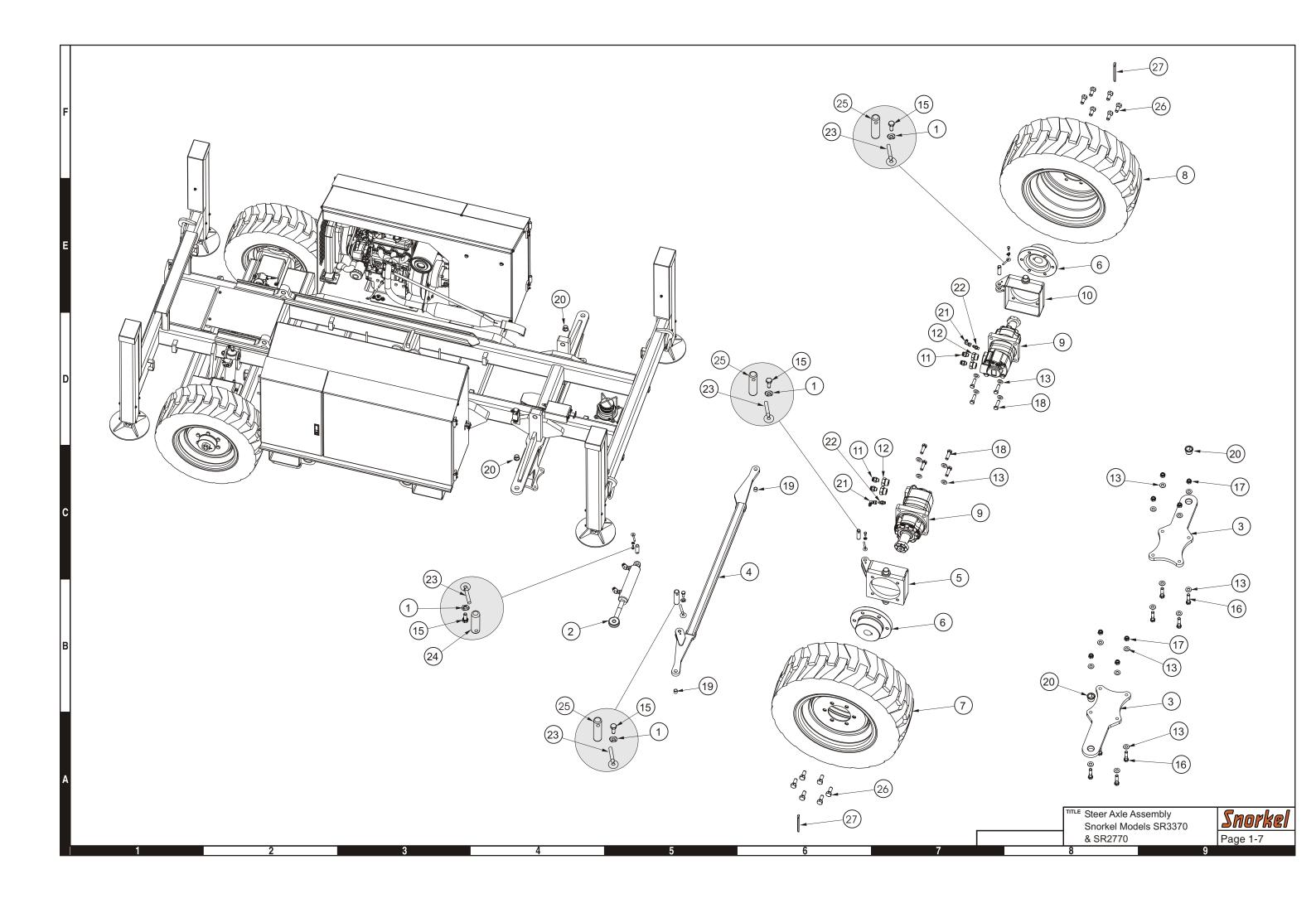


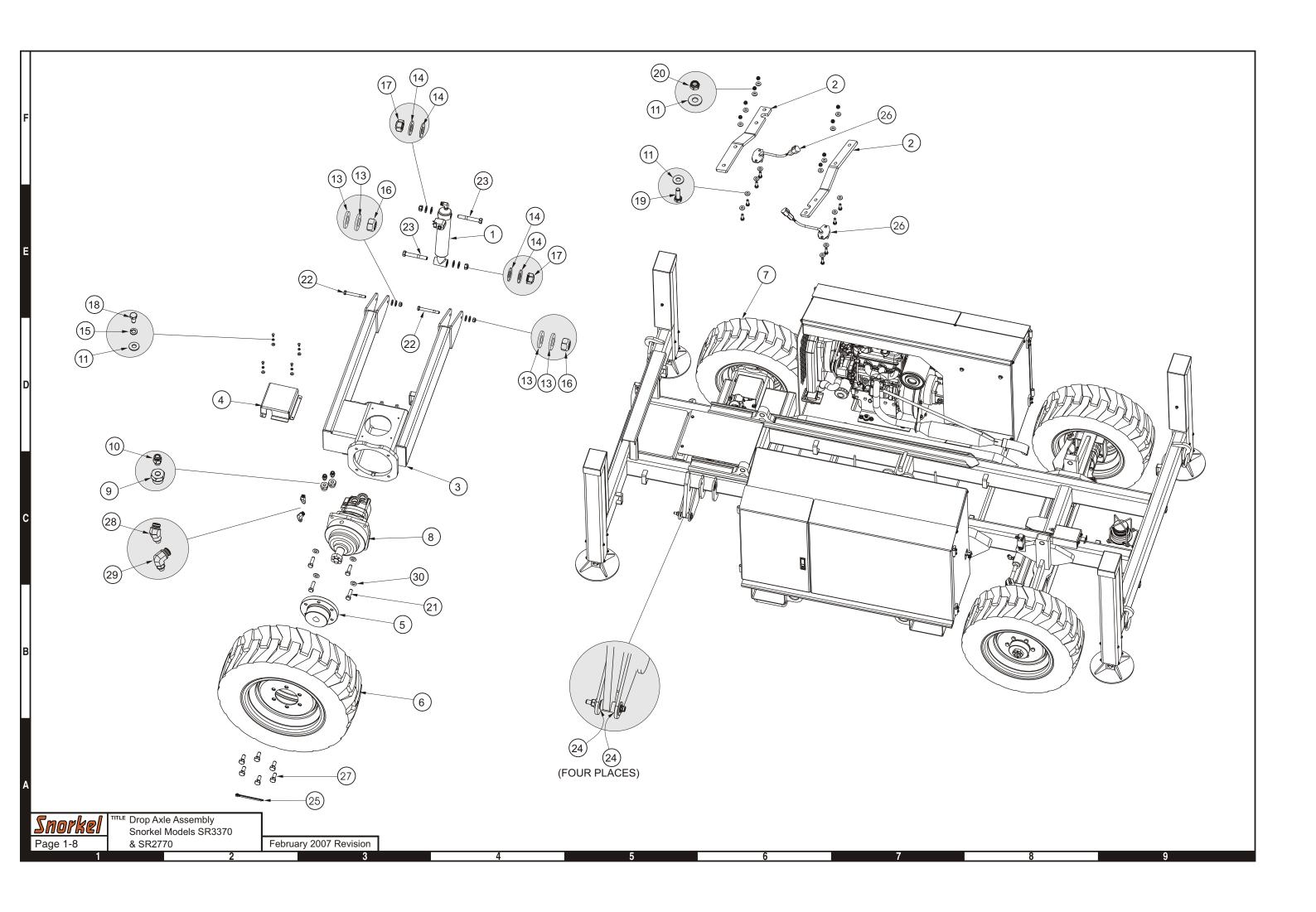


Item	Part No	Qty	Description
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19.	3605-10	3	Spring washer
20.	3606-06016	8	Cap screw, counter sunk
21.	3610-06020	2	Bolt
22.	3610-06050	2	Bolt
23.	3610-08040	8	Bolt
24.	3610-10025	11	Bolt
25.	3610-10080	2	Bolt
26.	3611-04	2	Nyloc nut
27.	3611-06	2	Nyloc nut
28.	3611-08	8	Nyloc nut
29.	3611-10	10	Nyloc nut
30.	3624-3	8	Bush
31.	5560179	2	Washer, special
32.	12554	1	Chassis weld
33.	1273-1	1	Bubble level

Steer axle assembly

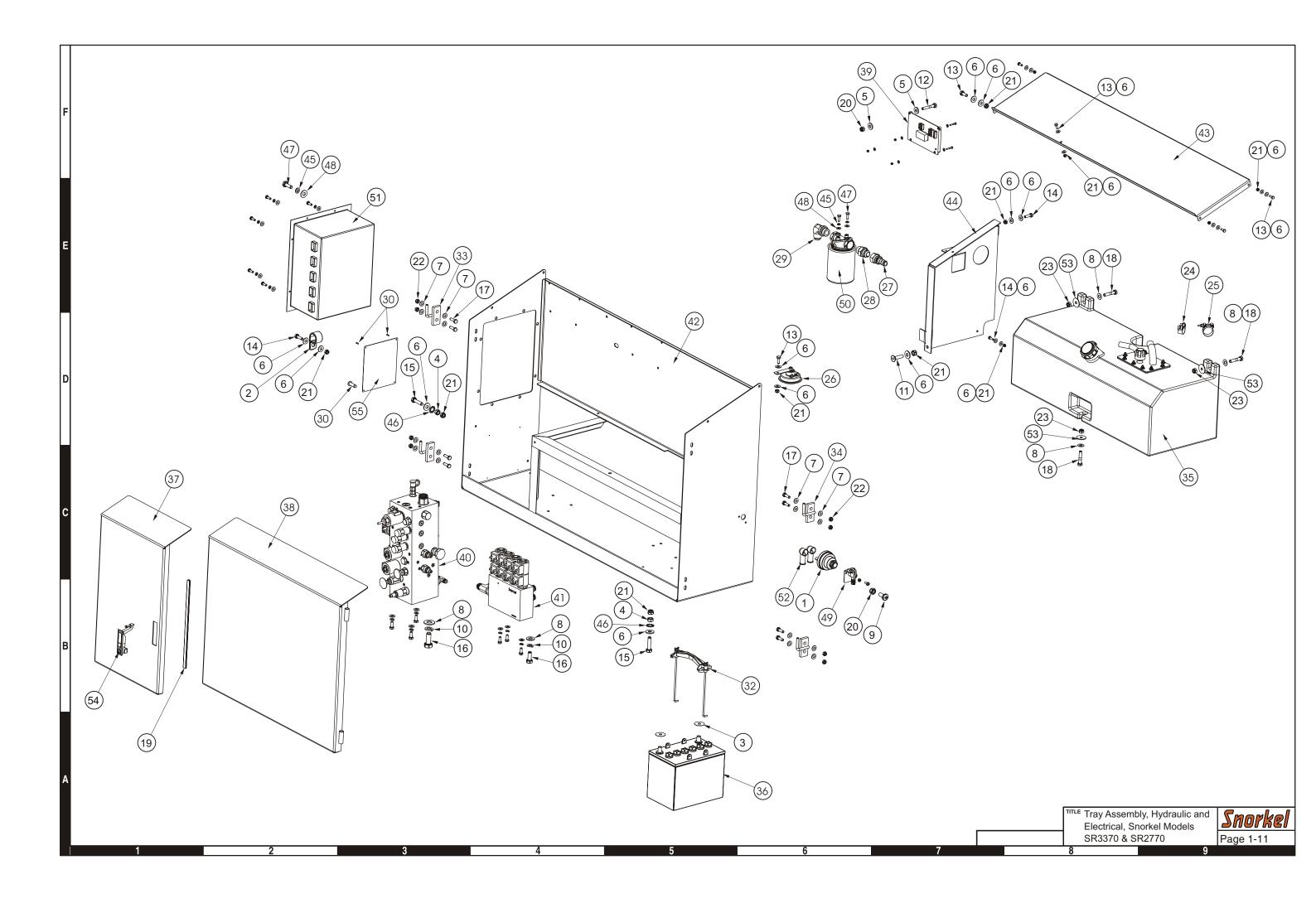
Item	Part No.	Qty	Description
iteiii	Part No.	Qty	Description
1.	11492-1	4	Lock tab
2.	11699A	1	Steer cylinder assembly
3.	12555-9	2	Steer axle, lower plate
4.	12556	1	Tie rod weld
5.	12558	1	Steer hub weld, right
6.	12562	2	Wheel hub front
7.	12563	1	Wheel tyre assembly, right hand, foam filled
8.	12564	1	Wheel tyre assembly, left hand, foam filled
9.	12570	2	Motor, hydraulic, unbraked
10.	12704	1	Steer hub weld, left
11.	12769-1	4	Adaptor, male UNO to femate UNO
12.	12770-330606	4	Adaptor, male UNO to female STC straight
13.	3603-12	24	Flat washer
15.	3610-06016	4	Bolt
16.	3610-12050	8	Bolt
17.	3611-12	8	Nyloc nut
18.	3616-12040	8	Bolt
19.	3624-27	2	Bush
20.	3626-1	4	Flanged bush
21.	6999-005	2	Adaptor, JICM - JICF elbow
22.	7025-015	2	Adaptor, JICM - UNO straight
23.	8628	4	Pin keeper
24.	9311	1	Pin, steer cylinder
25.	9319	3	Pin, tie rod arm
26.	98300-9	12	Wheel bolt
27.	3636-1	2	Split pin

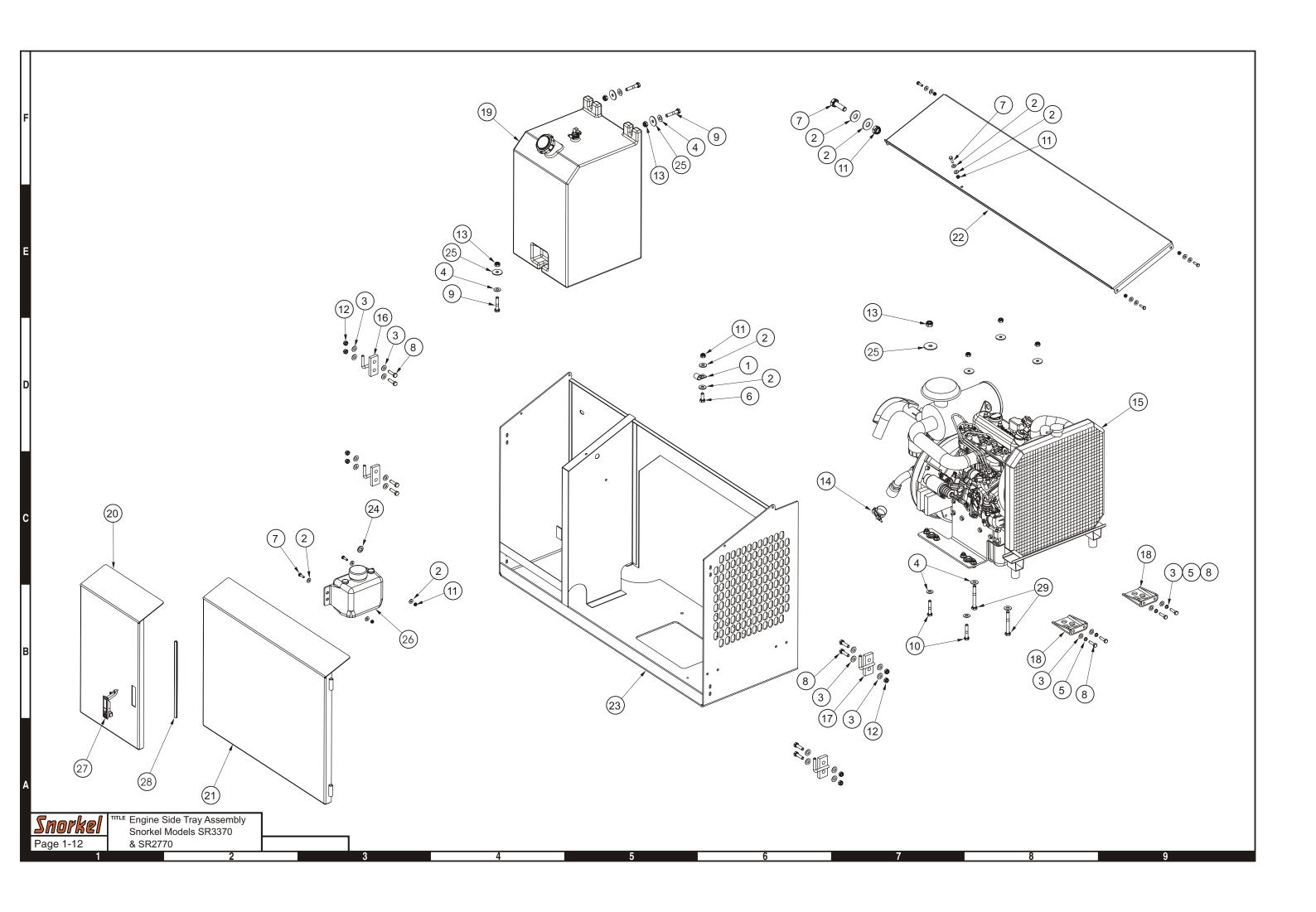




Item	Part No.	Qty	Description
1.	11642A	2	Axle cylinder assembly
2.	11794	2	Mounting bracket, magnetic switch
3.	12557	2	Swing arm
4.	12557-10	2	Motor cover
5.	12561	2	Wheel hub, rear
6.	12563	1	Wheel tyre assembly, right hand, foam filled
7.	12564	1	Wheel tyre assembly, left hand, foam filled
8.	12571	2	Motor, hydraulic braked
9.	12769-1	4	Adaptor, male UNO to female UNO
10.	12770-330606	4	Adaptor, male UNO to female STC straight
11.	3603-06	24	Flat washer
12.	3603-12	8	Flat washer
13.	3603-12HD	8	Flat washer
14.	3603-16HD	8	Flat washer
15.	3605-06	8	Spring washer
16.	3608-12C	4	Cone-lock nut
17.	3608-16C	4	Cone-lock nut
18.	3610-06012	8	Bolt
19.	3610-06020	8	Bolt
20.	3611-06	8	Nyloc nut
21.	3616-12040	8	Bolt
22.	3616-12100	4	Bolt
23.	3616-16140	4	Bolt, modified
24.	3626-2	8	Flanged bush
25.	3636-1	2	Split pin
26.	560278	2	Switch, proximity
27.	98300-9	12	Wheel stud
28.	12770-340406	2	Male to female STC adapter, 90°
29.	12770-35046	2	Male to female STC adapter, 90°
30.	3603-12H	8	Washer, flat M12, hardened

Item	Part No	Qty	Description
1.	302-0049	1	Switch hattany disconnect
1. 2.	2022-005	1	Switch, battery disconnect Clamp
3.	2069	1	Anti-corrosive pads
4.	3602-06	2	Hex nut
5.	3603-05	8	Plain washer
6.	3603-06	21	Plain washer
7.	3603-08	24	Plain washer
8.	3603-10	3	Plain washer
9.	3604-05012	2	Pan head screw
10.	3605-10	8	Spring washer
11.	3606-06025	1	Countersunk socket head screw
12.	3610-05025	4	Metric bolt
13.	3610-06016	6	Metric bolt
14.	3610-06020	3	Metric bolt
15.	3610-06025	2	Metric bolt
16.	3610-10020	8	Metric bolt
17.	3610-08025	8	Metric bolt
18.	3610-10050	3	Metric bolt
19.	PCA015	1	Rubber channel section
20.	3611-05	6	Nyloc nut
21.	3611-06	12	Nyloc nut
22.	3611-08	8	Nyloc nut
23.	3611-10	3	Nyloc nut
24.	3618-26	1	Hose clamp
25.	3618-32	1	Hose clamp
26.	4381	1	Horn
27.	6989-004	1	Fitting
28.	7025-008	1	JICM x UNO ring nipple
29.	12770-351212	1	Adapter, straight, 1 and 1/16" UNO -> 3/4" STCF
30.	8974	4	Screw, hammer drive
32.	10268-1	1	Battery bracket
33.	11470	2	Left hand hinge
34.	11470-1	2	Right hand hinge
35.	11558	1	Hydraulic oil tank assembly
36.	11596	1	Battery, 12v
37.	11679	1	Left hand door weld, small
38.	11680	1	Right hand door weld, large
39.	12546	1	Auto level board
40.	12567	1	Manifold, main, SR
41.	12568	1	Manifold, stabiliser, SR
42.	12716	1	Control cabinet weld
43.	12716-13	1	Top plate, engine and control cabinets
44.	12716-14	1	Cabinet support
45.	60005-007	10	Spring washer
46.	12783-06	2	Lock washer
47.	60015-012	10	Bolt, 1/4" UNC x 5/8" G5
48.	60030-006	10	Washer
49.	300840	1	Lock out lever assembly
50.	301440	1	Oil filter
51.	560222	1	Control box, ground
52.	3040269	2	Boot, cable entry
53.	5560179	3	Flat washer, special
54.	8342416	1	Latch, adjustable trigger
55.	0070901E	1	Name plate

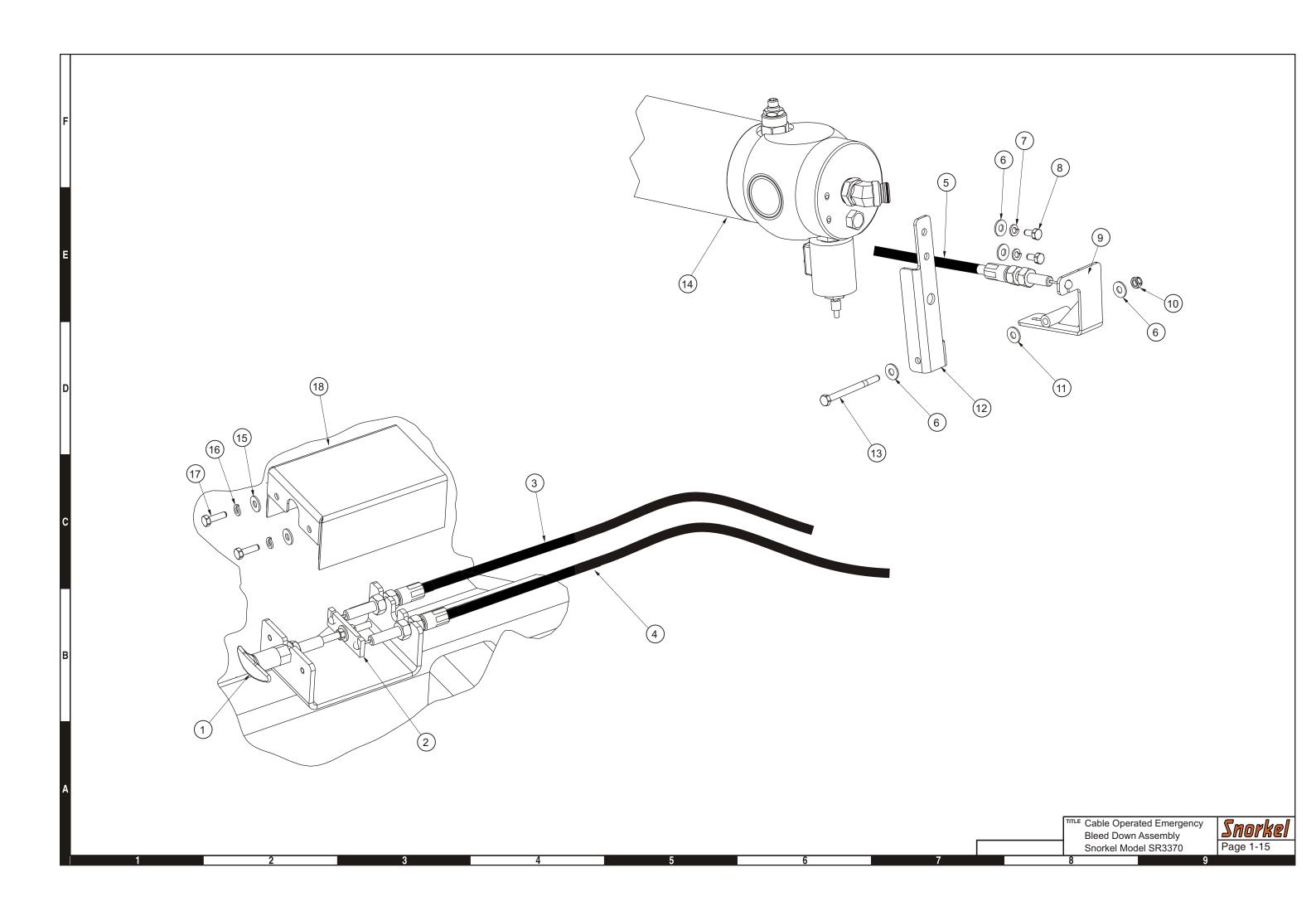


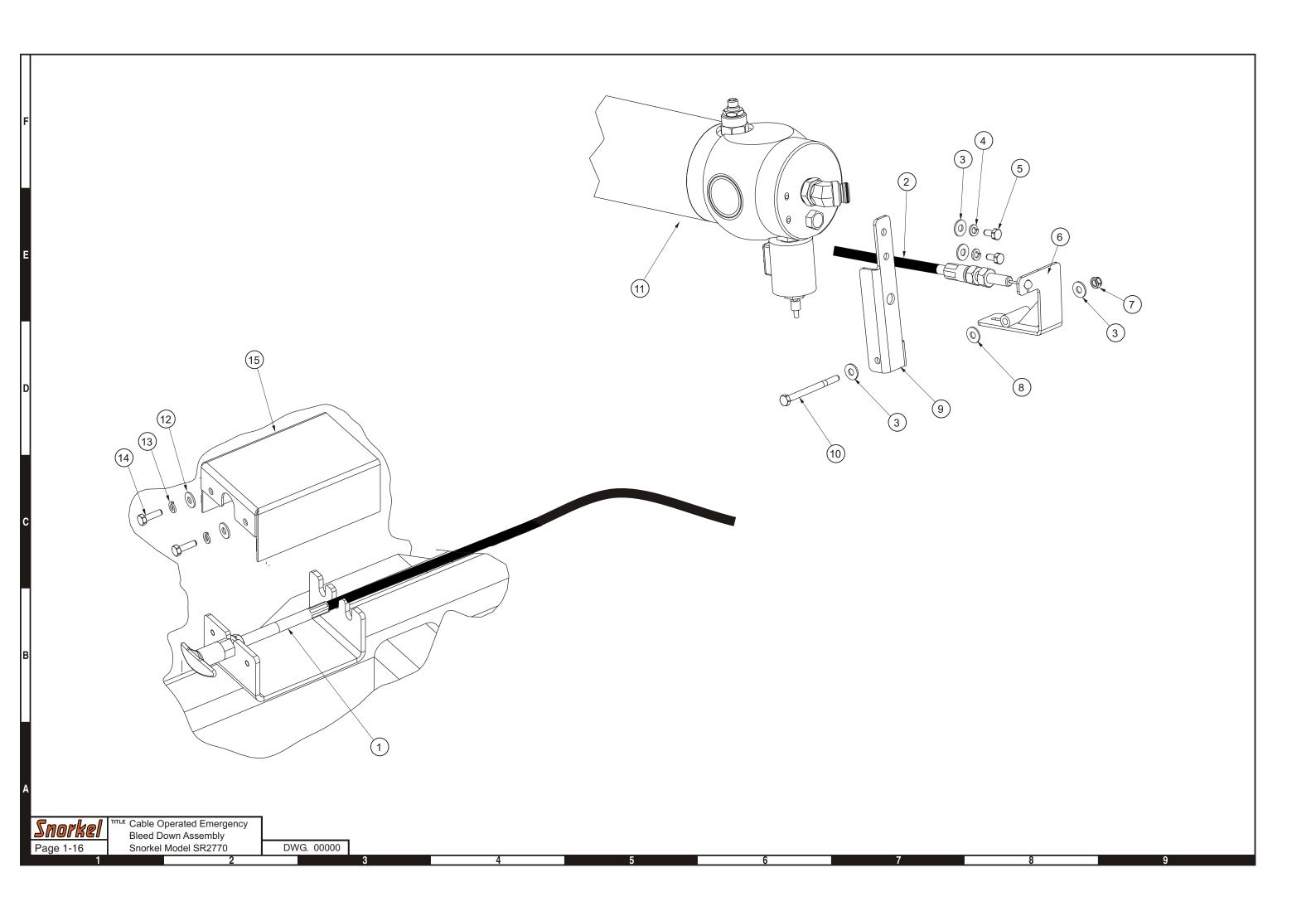


Item	Part No	Qty	Description
1.	2022-003	1	Clamp
2.	3603-06	20	Plain washer
3.	3603-08	20	Plain washer
4.	3603-10	7	Plain washer
5.	3605-08	4	Spring washer
6.	3610-06016	1	Metric bolt
7.	3610-06020	7	Metric bolt
8.	3610-08030	12	Metric bolt
9.	3610-10050	3	Metric bolt
10.	3610-10055	2	Metric bolt
11.	3611-06	9	Nyloc nut
12.	3611-08	8	Nyloc nut
13.	3611-10	7	Nyloc nut
14.	3618-32	1	Hose clamp
15.	11362	1	Engine assembly, SR D905 diesel
16.	11470	2	Left hand hinge
17.	11470-1	2	Right hand hinge
18.	11471-1	2	Kubota radiator mount
19.	11480	1	SR Fuel tank assembly
20.	11679	1	Left hand door weld, small
21.	11680	1	Right hand door weld, large
22.	12716-13	1	Top plate, engine and control cabinet
23.	12717	1	Engine tray
24.	65004-008	1	Rubber grommet
25.	5560179	7	Flat washer, special
26.	7630227	1	Overflow bottle
27.	8342416	1	Latch, adjustable trigger
28.	PCA015	1	Rubber channel section
29.	3610-10075	2	Metric bolt
30.	2022-005	1	Clamp

Cable operated emergency bleed down SR3370

Item	Part No	Qty	Description
1.	12726	1	Bleed down handle
2.	12724	1	Bridge plate
3.	12722	1	Bleed down cable (short) to lower lift cylinder
4.	12723	1	Bleed down cable (long) to upper lift cylinder
5.	12722	1	Bleed down cable (short) lower lift cylinder
	12723	1	Bleed down cable (long) upper lift cylinder
6.	3603-06	8	Plain washer
7.	3605-06	4	Spring washer
8.	3610-06012	4	Bolt
9.	12648	2	Valve lever
10.	3611-06	2	Nyloc nut
11.	3641-06	2	Nylon washer
12.	12647-1	2	Cylinder lever pivot
13.	3610-06075	2	Bolt
14.	12746A	2	SR lift cylinder
15.	3603-06	2	Flat washer
16.	3605-06	2	Spring washer
17.	3610-06020	2	Bolt
18.	12818	1	Bleed down cover

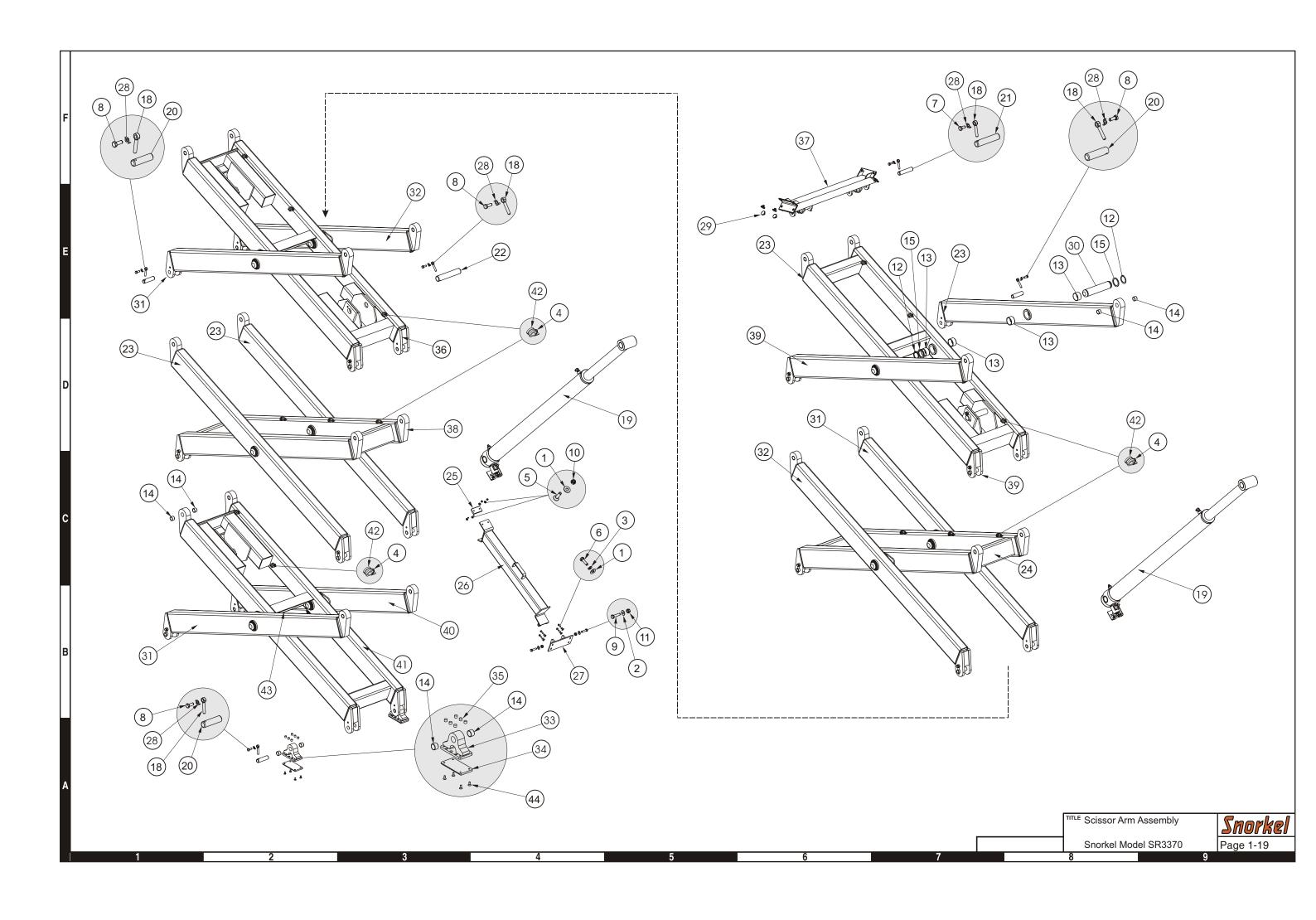


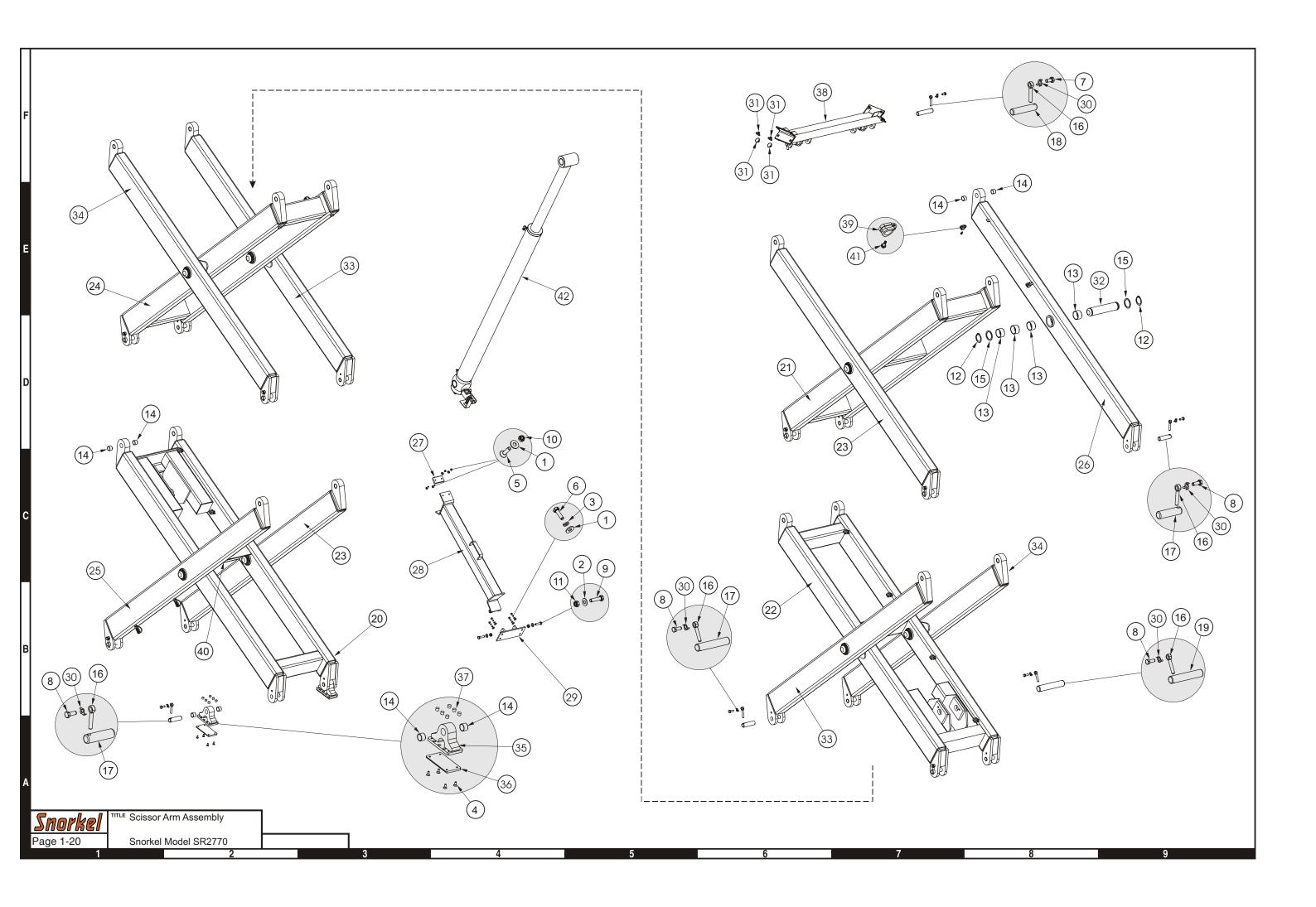


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Item	Part No	Qty	Description
1.	12748	1	Bleed down handle and cable to lift cylinder
2.	12748	1	Bleed down cable
3.	3603-06	4	Plain washer
4.	3605-06	2	Spring washer
5.	3610-06012	2	Bolt
6.	12648	1	Valve lever
7.	3611-06	1	Nyloc nut
8.	3641-06	1	Nylon washer
9.	12647-1	1	Cylinder lever pivot
10.	3610-06075	1	Bolt
11.	12746A	1	SR lift cylinder
12.	3603-06	2	Flat washer
13.	3605-06	2	Spring washer
14.	3610-06020	2	Bolt
15.	12818	1	Bleed down cover

Item	Part No	Qty	Description
1.	3603-06	6	Plain washer
2.	3603-10	2	Plain washer
3.	3605-06	4	Spring washer
4.	97563-9	14	Tek screw
5.	3606-06025	2	Countersunk socket head screw
6.	3610-06020	4	Metric bolt
7.	3610-10020	2	Metric bolt
8.	3610-10025	23	Metric bolt
9.	3610-10040	2	Metric bolt
10.	3611-06	2	Nyloc nut
11.	3611-10	2	Nyloc nut
12.	3619-5	20	Circlip, external
13.	3624-2	40	Bush
14.	3624-3	44	Permaglide bush
15.	3629-5062L	20	Washer, scissor pivot
16.	7063-001	1	T, 9/16" JICM x 3 (Not shown)
17.	7063-003	1	T, 3/4" JICM x 3 (Not shown)
18.	8626	26	Pin keeper
19.	12746A	2	SR lift cylinder
20.	8699	20	Pin
21.	9016	2	Pin
22.	9292	4	Pin
23.	9333	4	Arm, outer weldment
24.	12906	1	Arm, inner weldment
25.	11143-2	1	Wear pad
26.	11380	1	Safety prop weld
27.	11381	1	Mount bracket weld
28.	11492-3	26	Tab washer
29.	11658-20	8	Wear plug
30.	11804	10	Scissor pivot pin
31.	12529	3	Arm, outer mid right hand
32.	12530	2	Arm, outer mid left hand
33.	12566	2	Sliding block weld
34.	12566-2	2 12	Wear pad slider block, bottom
35.	12566-3	. –	Wear pad slider block top
36.	12588	1	Arm, inner top cylinder weld
37. 38.	12589 12593	1	Slider bar weld Arm, inner
39.			
39. 40.	12621 12713	1 1	Arm, top inner Arm, outer lower with flitch
40. 41.	12713	1	Arm, lower inner weldment with flitch
41. 42.	45248-6	19	Clamp crush 3/4"
42. 43.	45248-7	3	Clamp crush 1"
43. 44.	3606-06016	8	Countersunk socket screw
44.	3000-00010	O	Countersully socker sciem

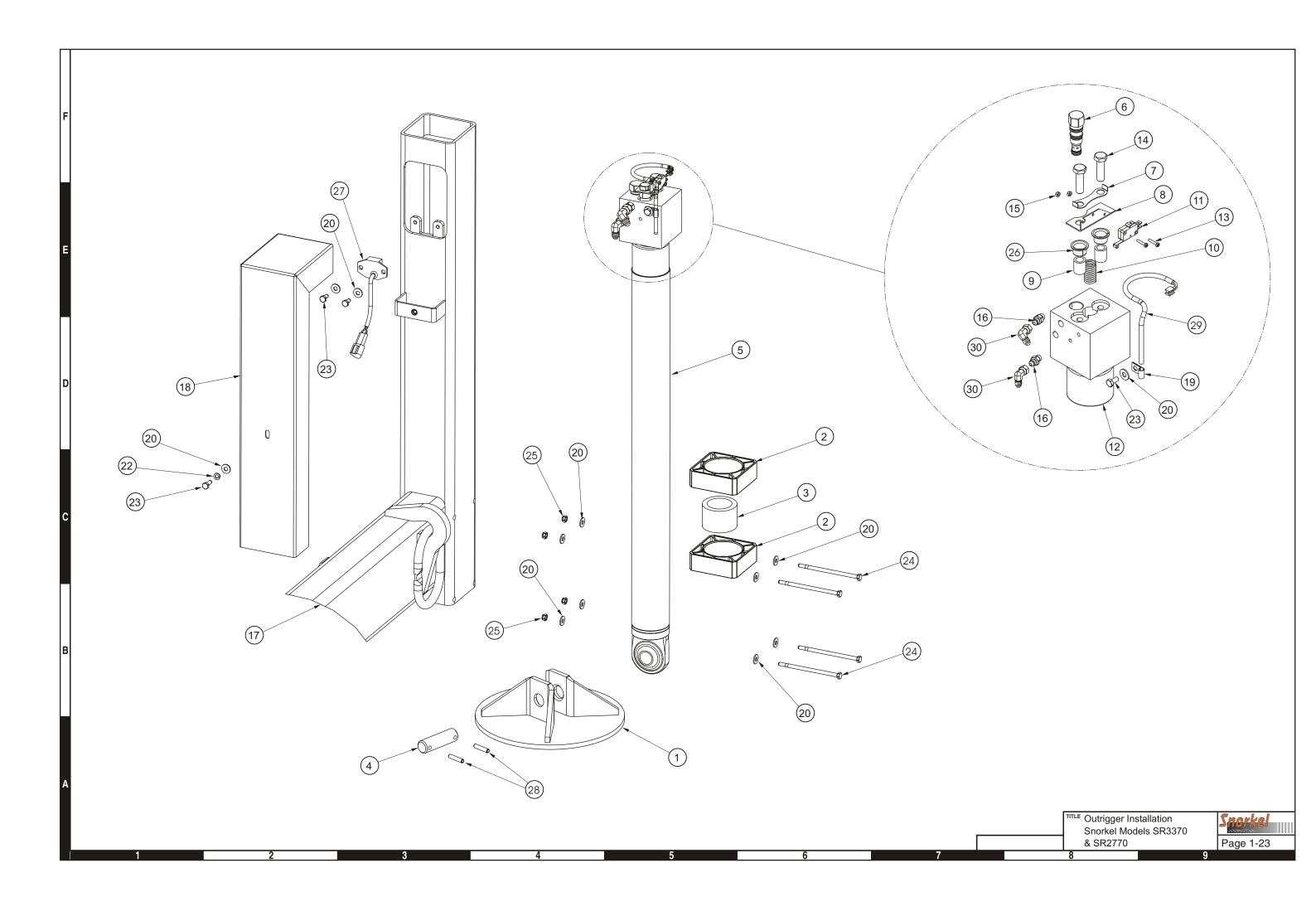


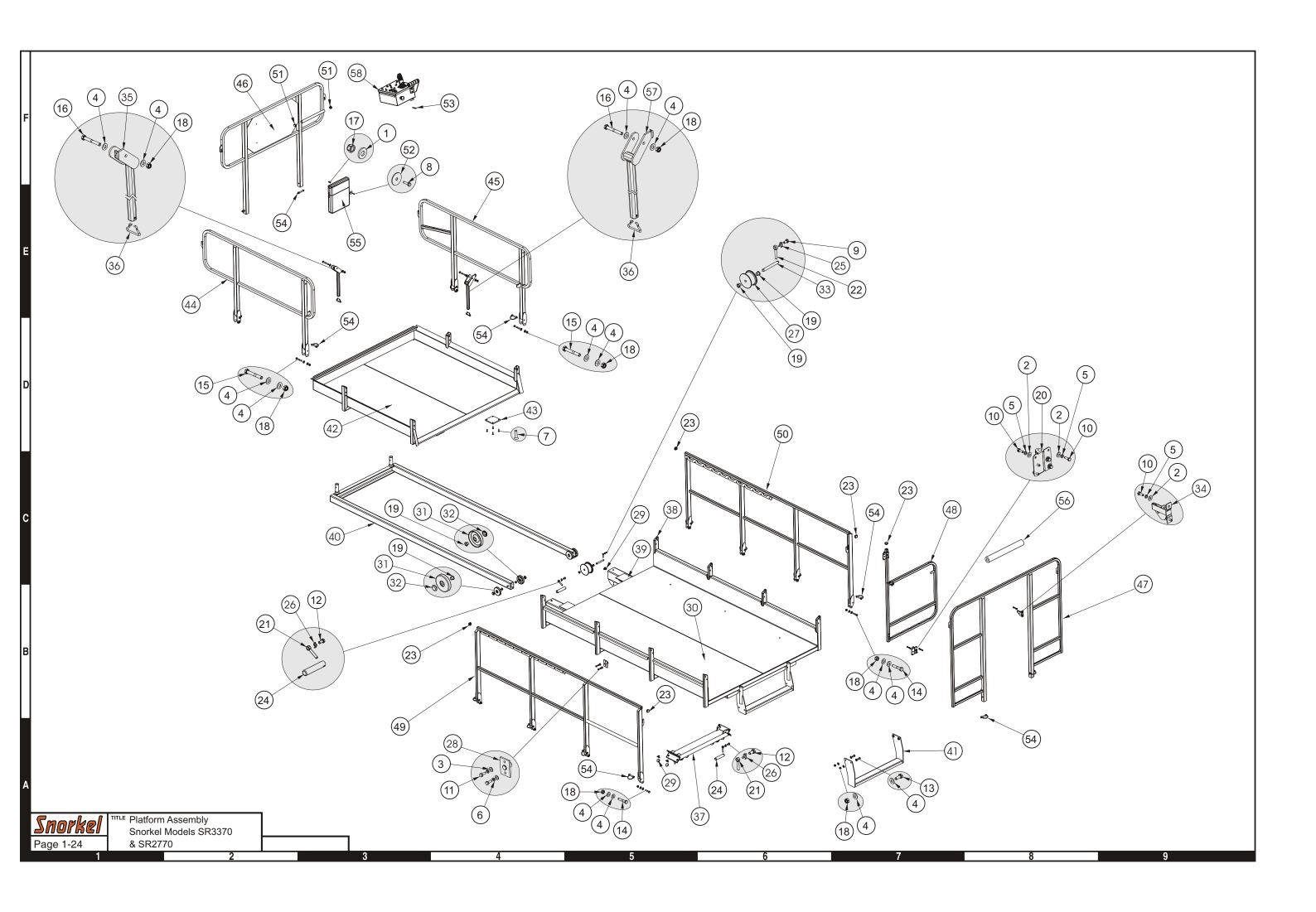


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Item	Part No	Qty	Description
1.	3603-06	6	Plain washer
2.	3603-10	2	Plain washer
3.	3605-06	4	Spring washer
4.	3606-06016	8	Countersunk socket head screw
5.	3606-06025	2	Countersunk socket head screw
6.	3610-06020	4	Bolt
7.	3610-10020	2	Bolt
8.	3610-10025	18	Bolt
9.	3610-10040	2	Bolt
10.	3611-06	2	Nyloc nut
11.	3611-10	2	Nyloc nut
12.	3619-5	16	Circlip, external
13.	3624-2	32	PermaglideBush
14.	3624-3	36	Permaglide bush
15.	3629-5062L	16	Washer, scissor pivot
16.	8626	20	Pin keeper
17.	8699	16	Pin
18.	9016	2	Pin
19.	9292	2	Pin
20.	9330	1	Arm, lower inner
21.	9331	1	Arm, Inner upper, 4th stage
22.	9332	1	Arm, inner upper
23.	9333	2	Arm, outer
24.	9465	1	Arm, inner mid
25.	9484	1	Arm, outer lower right
26.	9502	1	Arm, outer upper
27.	11143-2	1	Wear pad
28.	11380	1	Safety prop weld
29.	11381	1	Mount bracket weld
30.	11492-3	20	Tab washer
31.	11658-20	8	Wear plug
32.	11804	8	Scissor pivot pin
33.	12529	2	Arm, outer mid
34.	12530	2	Arm, outer mid
35.	12566	2	Sliding block weld
36.	12566-2	2	Wear pad slider block, bottom
37.	12566-36	12	Slider block, top
38.	12589	1	Slider bar weld
39.	45248-6	15	Clamp crush
40.	45248-7	3	Clamp crush (not shown)
41.	97563	18	Tek screw
42.	12746A	1	SR lift cylinder

Outrigger Installation

Item	Part No	Qty	Description
1.	11305	1	Foot weld assembly
2.	11366-1	2	Stabiliser bush
3.	11366-2	1	Spacer, stabiliser bush
4.	11369	1	Pin, foot swivel
5.	12036A	1	Cylinder assembly
6.	11367-2	1	Pilot check valve
7.	11492-4	1	Lock tab
8.	12036-4	1	Microswitch mount plate
9.	12036-5	2	Sliding spacer
10.	12036-6	1	Compression spring
11.	12036-7	1	Switch
12.	12036	1	Stabiliser cylinder
13.	3604-03016	2	Machine screw
14.	3610-10030	2	Bolt
15.	3611-03	2	Nyloc nut
16.	7025-015	2	JICM x UN 'O' ring, male nipple
17.	REF	1	Stabiliser weldment
18.	12039	1	Hose cover, stabiliser leg
19.	2022-003	1	Cable clamp
20.	3603-06	12	Flat washer
22.	3605-06	1	HD spring washer
23.	3610-06012	4	Bolt
24.	3610-06110	4	Bolt
25.	3611-06	4	Nyloc nut
26.	3626-8	2	Flanged permaglide bush
27.	560278	1	Magnetic proximity switch
28.	3633-3	2	Roll pin
29.	12731-4	1	Wiring loom
30.	6999-005	2	Adaptor, JICM to JICF





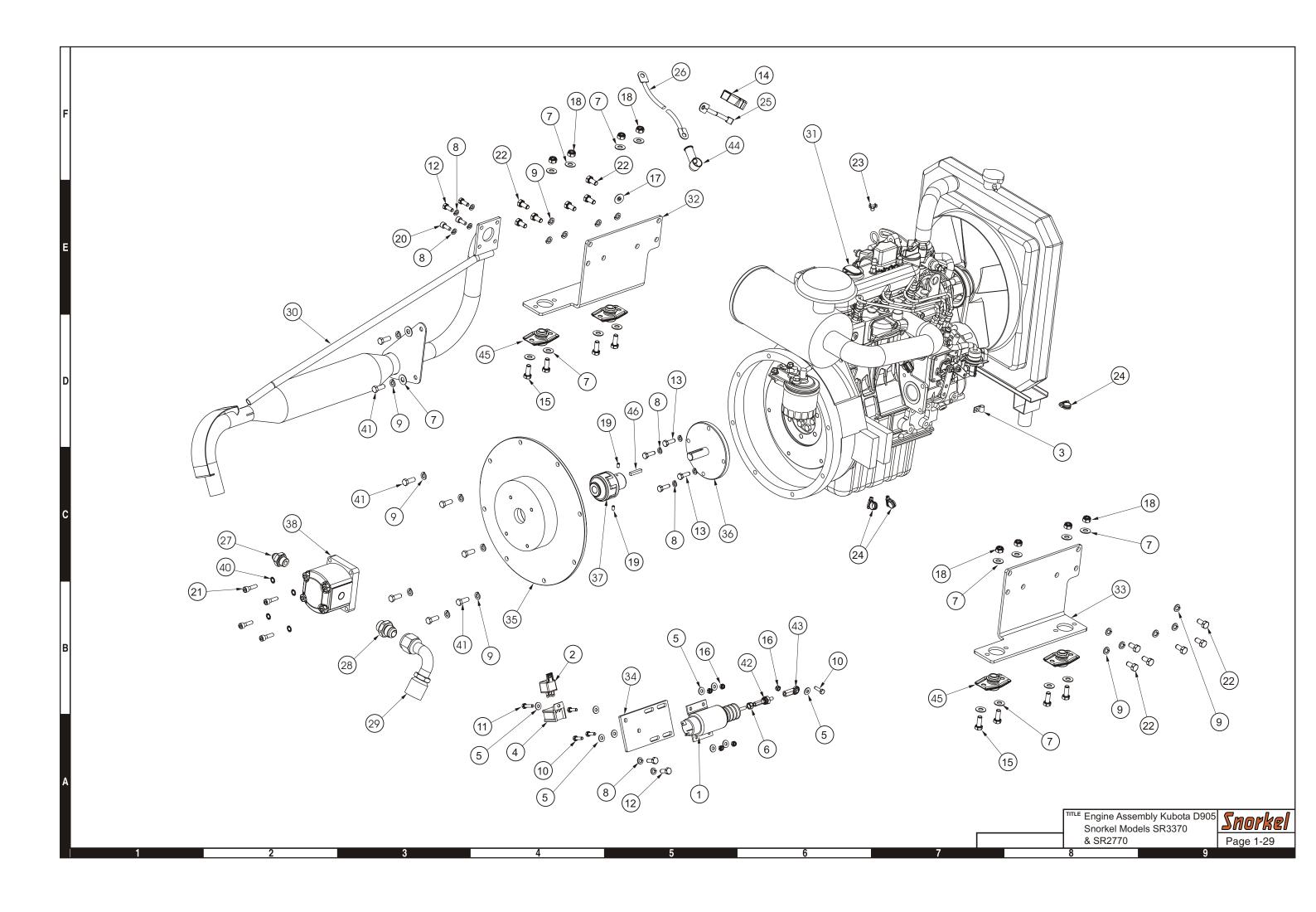
Item	Part No	Qty	Description
1.	3603-05	2	Plain washer
2.	3603-06	14	Plain washer
3.	3603-08	4	Plain washer
4.	3603-10	40	Plain washer
5.	3605-06	14	Spring washer
6.	3605-08	4	Spring washer
7.	3606-06025	8	Metric countersunk screw
8.	3610-05016	2	Metric bolt
9.	3610-06012	2	Metric bolt
10.	3610-06016	14	Metric bolt
11.	3610-08020	4	Metric bolt
12.	3610-10020	4	Metric bolt
13.	3610-10025	4	Metric bolt
14.	3610-10050	8	Metric bolt
15.	3610-10070	4	Metric bolt
16.	3610-10075	2	Metric bolt
17.	3611-05	2	Nyloc nut
18.	3611-10	18	Nyloc nut
19.	3626-2	8	Flanged bush
20.	7495	2	Spring hinge
21.	8626	4	Pin keeper
22.	8628	2	Pin keeper
23.	8926-1	5	Plug, RHS
24.	9016	4	Pin Tah washar
25. 26.	11492-1	2 4	Tab washer
26. 27.	11492-3	2	Tab washer
27. 28.	11658-1 11658-11	2	External roller, plated
26. 29.	11658-20	10	Rollout stop, plated Wear plug
29. 30.	11658-28	2	Platform floor pressing
31.	11658-3	4	Internal roller, plated
32.	11658-6	4	Thrust button
33.	11658-7	2	Axle pin extension roller (before 01/10/2007)
00.	13025	2	Axle pin extension roller (after 01/10/2007)
34.	11691-10	1	Gate latch striker set
35.	11695L	1	Handrail latch, left
36.	11695-3	2	Latch holding ring
37.	12589	1	Slider bar weld
38.	12599	1	Platform weld
39.	12599-9	2	Deck run-off plate
40.	12600	1	Rollout frame weld
41.	12680	1	Extension step weld
42.	12709	1	Rollout deck weld
43.	12709-10	2	Rollout deck slide pad
44.	12710-10	1	Handrail, left
45.	12710-11	1	Handrail, right
46.	12715	1	Handrail front
47.	12720	1	Handrail weld, entry
48.	12721	1	Handrail weld, gate
49.	12727-10	1	Left hand rail
50.	12727-11	1	Right hand rail
51.	12750	2	Plug, round
52.	60030-198	2	Fender washer
53.	72404	2	Grip clip
54.	302544	16	Pin and lock
55.	562386	1	Literature compartment

Platform assembly

Item	Part No	Qty	Description
56.	9980003	1	Foam pipe wrap
57.	11695R	1	Handrail latch, right
58.	12700A	1	Upper control box assembly

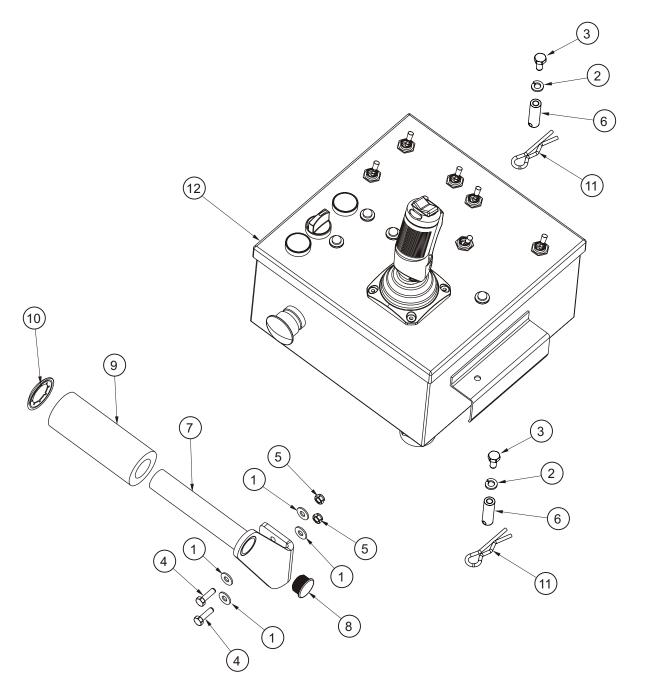
Item	Part No	Qty	Description
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13.	3603-10 3610-10050 3611-10 3618-10 3618-11 3618-14 561706 563726 605256 11955 967309 5560179 7720201 605726 476706	3 3 1 2 1 1 1 1 3 1	Plain washer Metric bolt Nyloc nut Hose clamp Hose clamp Tank, 13 gallon Elbow, male, BSPT Cap, vented, standard Cap, lockable, option Elbow, male, BSPT Flat washer, special Fitting, reducer Decal, diesel fuel only Decal, danger explosive fumes
			5 12
	9	3	
	(13)	- DIESEL ONL	
	7		3
		3	5

Item	Part No	Qty	Description
1.	3040174	1	Solenoid, 24V
1. 2.	1650-010	1	Relay, 12V
3.	2022-002	1	Clamp
3. 4.	2065-002	1	Plug-in relay base
5.	3603-002	9	Plain washer
6.	60021-008	1	Nut
7.	3603-10	18	Plain washer
7. 8.	3605-08	10	Spring washer
9.	3605-08	19	Spring washer
10.	3610-06020	4	Metric bolt
11.	3610-06025	1	Metric bolt
12.	3610-08020	2	Metric bolt
13.	3610-08025	4	Metric bolt
14.	3040453	1	Boot entry cable, redt
15.	3610-10025	8	Metric bolt
16.	3611-06	5	Nyloc nut
17.	3611-08	1	Nyloc nut
18.	3611-10	8	Nyloc nut
19.	3612-06010	2	Grub screw
20.	3613-08020	4	Cap screw
21.	3613-08030	4	Cap screw
22.	3617-10020	12	Metric bolt
23.	3618-10	1	Hose clamp
24.	3618-14	3	Hose clamp
25.	3649-20	1	Battery cable, black
26.	3649-22	1	Battery cable, red
27.	7013-002	1	BSPP (Dowty) x JICM nipple
28.	7013-016	1	BSPP (Dowty) x JICM nipple
29.	7065-011	1	Hose tail
30.	11331	1	SR exhaust pipe
31.	11471	1	Engine, Kubota D905 diesel
32.	11472-10	1	Bracket, engine mount right
33.	11472-11	1	Bracket, engine mount left
34.	11475	1	Solenoid mounting bracket
35.	11478	1	Adaptor plate
36.	11479	1	Drive plate
37.	11489	1	Alloy coupling
38.	11490	1	Gear pump
39.			5-5-5 p-1
40.	60005-054	4	External lock washer
41.	60017-007	8	Bolt
42.	2650001	1	Swivel, inline
43.	2690004	1	Rod end
44.	3040269	1	Boot cable entry, black
45.	7630208	4	Engine mount
46.	6KEY	1	Key steel
-	-		•



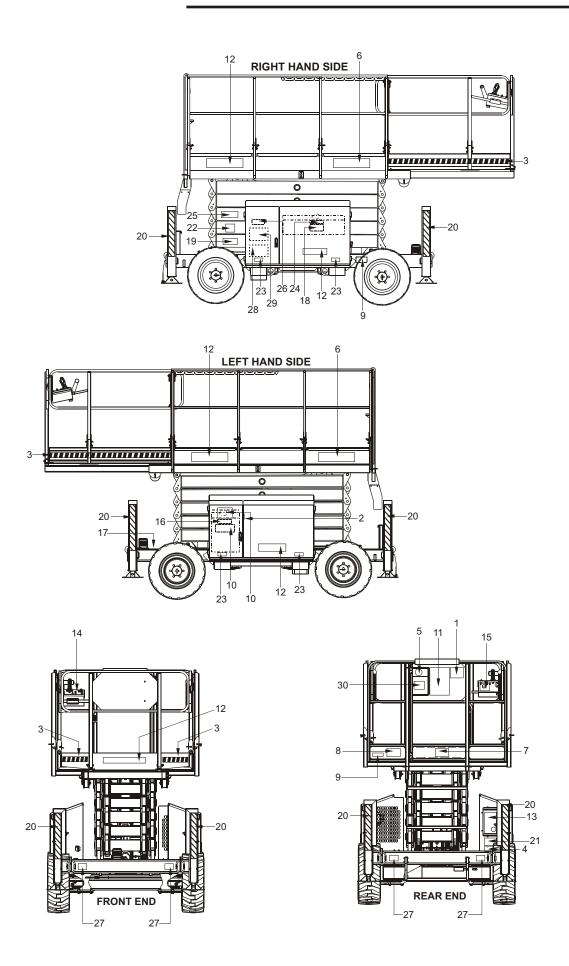
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Item	Part No.	Qty	Description
1.	3603-06	4	Plain washer
2.	3605-06	2	Spring washer
3.	3610-06012	2	Metric bolt
4.	3610-06020	2	Metric bolt
5.	3611-06	2	Nyloc nut
6.	11690-16	2	Security pin
7.	12749	1	Wrist support
8.	12750-25	1	Plug, round
9.	12751	1	Hand grip, foam
10.	12756	1	Star washer with end cap
11.	72404	2	Grip clip
12.	12700	1	Control box



Placards and decals installation

Item	Part No	Qty	Description
1.	1843	1	Decal, warning New Zealand only
	9428	1	Decal, electrical hazard Australia only
2.	9208	1	Decal, water
3.	96924-9	4m	Decal, warning stripes yellow/black
4.	0070901E	1	Decal, serial number
5.	9751	1	Decal, New Zealand made
6.	12671	2	Decal, SR3370
	11345-1	2	Decal, SR2770
7.	12699	1	Decal, rated load SR3370
	11346-1	1	Decal, rated load SR2770
8.	0073298	1	Decal, foam tyres
9.	451986	2	Decal, interlocks
10.	476706	2	Decal, explosive fumes, (outside cabinet door & fuel tank)
11.	12574	1	Decal, danger with alarm
12.	569295	5	Decal, Snorkel logo
13.	560240	1	Decal, lower control box
14.	12689	1	Decal, upper control box
15.	560272	1	Decal, emergency stop upper box
16.	605726	1	Decal, diesel fuel, (on fuel tank)
17.	12753	1	Decal, emergency bleed down
18.	12814	1	Decal, hydraulic fluid, (on hydraulic oil tank)
19.	58365-6	1	Decal, safety prop
20.	9223-3	4	Decal, chevron
21.	300699	1	Decal, operators check list
22.	0323897	1	Decal, must not operate
23.	621486	4	Decal, forklift
24.	302950	1	Decal, hydraulic oil level
25.	300700	1	Decal, shearing hazard
26.	12816	1	Decal, emergency operation, lowering and pushing, (inside of door)
27.	0083427	4	Decal, lifting/tie down
28.	12815-4	1	Decal, hydraulic circuit SR, (inside cabinet door)
29.	12815-2	1	Decal, electrical circuit SR, (inside cabinet door)
30.	562426	1	Decal, operators manual enclosed



Section 2. - Hydraulics

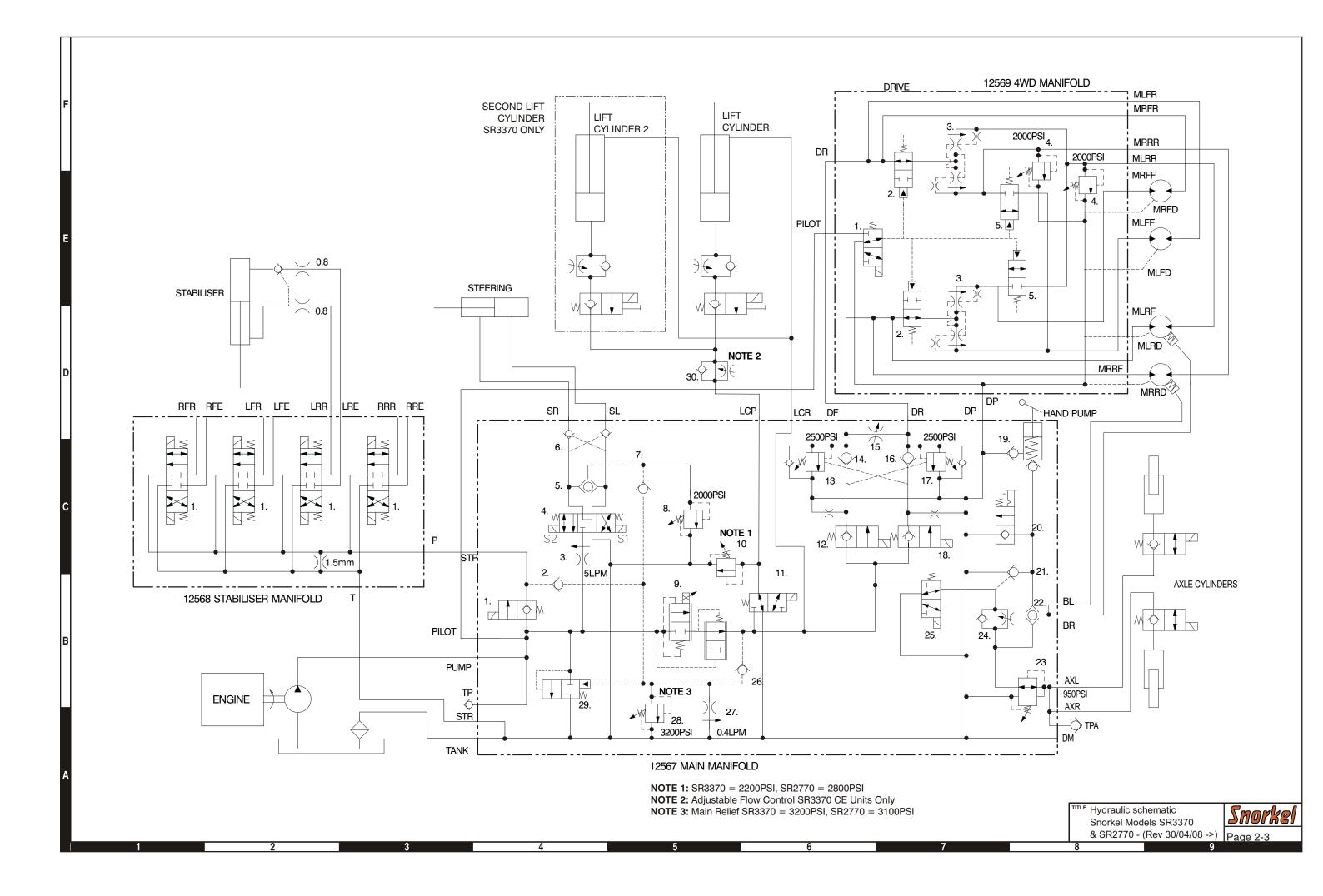
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Steer axle cylinder
Axle cylinder2-13
Main lift cylinder assembly2-14

Hydraulic assembly

Item	Part No	Qty	Description
0.	12568A	1	Stabiliser valve block assembly Stabiliser directional valve
1.	12568-1	4	

Item	Part No	Qty	Description
0.	12567A	1	Main manifold valve block assembly
1.	12567-1	1	Stabiliser divert valve
2.	12567-2	1	Compensator check
3.	12567-3	1	Steering flow control
4.	12567-4	1	Steering directional valve
5.	12567-5	1	Steering relief shuttle
6.	12567-6	1	Steering pilot check
7.	12567-2	1	Steering relief check
8.	12567-8	1	Steering relief valve
9.	12567-9	1	Proportional valve
10.	12567-8	1	Lift relief
11.	12567-11	1	Lift valve
12.	12567-12	1	Drive valve, forward
13.	12567-13	1	Drive counterbalance valve
14.	12567-14	1	Drive check valve
15.	12567-15	1	Free wheel valve
16.	12567-14	1	Drive check valve
17.	12567-13	1	Drive counterbalance valve
18.	12567-18	1	Drive valve, reverse
19.	12567-19	1	Hand pump
20.	12567-20	1	Brake reset valve
21.	12567-21	1	Brake pilot check
22.	12567-22	1	Brake shuttle
23.	12567-23	1	Axle pressure reducing valve
24.	12567-24	1	Brake flow control valve
25.	12567-11	1	Brake selector valve
26.	12567-2	1	Compensator check
27.	12567-27	1	Compensator bleed
28.	12567-8	1	Main relief
29.	12567-29	1	Compensator
30.	13037	1	Adjustable flow control valve (SR3370 only)
Item	Part No	Qty	Description
0.	12569A	1	4 wheel drive manifold block assembly
1.	12569-1	1	Selector valve series parallel

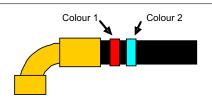
Item	Part No	Qty	Description	
0.	12569A	1	4 wheel drive manifold block assembly	
1.	12569-1	1	Selector valve series parallel	
2.	12569-2	2	Pilot operated selector valves, N.O.	
3.	12569-3	2	Flow divider combiner	
4.	12569-4	2	Drive motor relief valves	
5.	12569-5	2	Pilot operated selector valve, N.C.	



READING HOSE TAGS

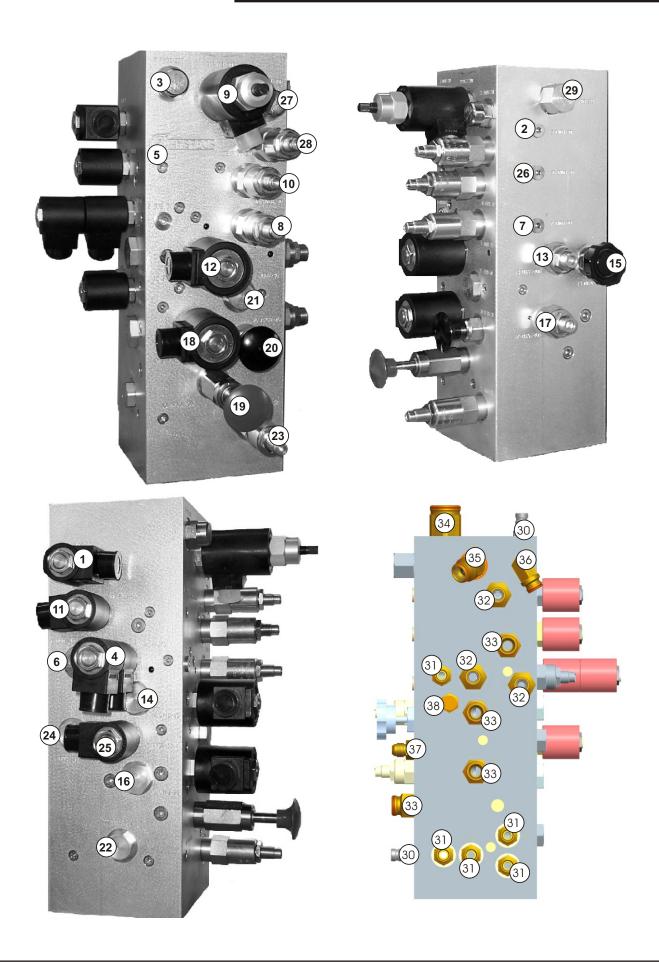
Hose tags are read from the fitting side of the hose in towards the hose.

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



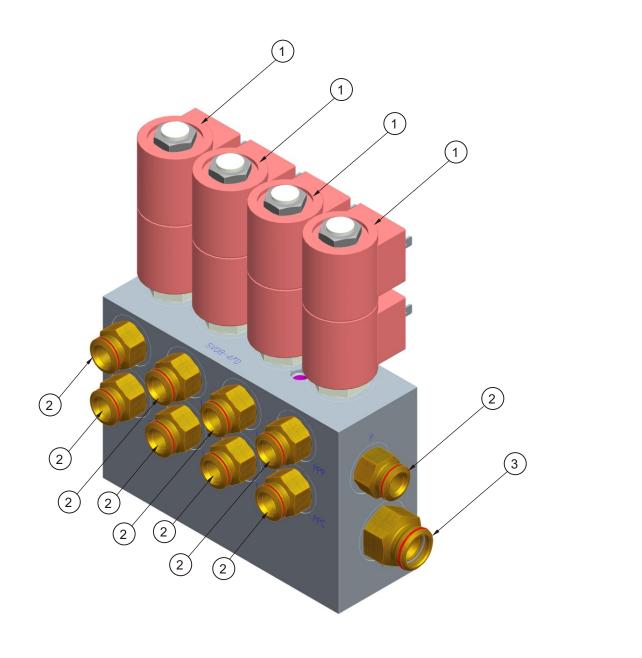
Snorkel	Snorkel Colour ID		Here Hee
Part Number	Colour 1	Colour 2	Hose Use
12812-1	Red	Yellow	Stab RR Extend: Stab Manifold RRE → Stab Cyl RR Extend
12812-2	Red	Green	Stab RR Retract: Stab Manifold RRR → Stab Cyl RR Retract
12812-3	Orange	Yellow	Stab LR Extend: Stab Manifold LRE → Stab Cyl LR Extend
12812-4	Orange	Green	Stab LR Retract: Stab Manifold LRR → Stab Cyl LR Retract
12812-5	Yellow	Yellow	Stab LF Extend: Stab Manifold LFE → Stab Cyl LF Extend
12812-6	Yellow	Green	Stab LF Retract: Stab Manifold LFR → Stab Cyl LF Retract
12812-7	Green	Yellow	Stab RF Extend: Stab Manifold RFE → Stab Cyl RF Extend
12812-8	Green	Green	Stab RF Retract: Stab Manifold RFR → Stab Cyl RF Retract
12812-43	Blue	Yellow	Steer Right: Main Manifold SR → Steer Cyl Extend
12812-9	Blue	Green	Steer Left: Main Manifold SL → Steer Cyl Retract
12812-10	Red		Drive Forward: Main Manifold DF → 4WD Manifold DF
12812-11	Blue		Drive Reverse: Main Manifold DR → 4WD Manifold DR
12812-12	Red	White	Motor RR Drain: 4WD Manifold MRRD → Motor RR Case Drain
12812-13	Red	Red	Motor RR CW (Fwd): 4WD Manifold MRRF → Motor RR Port A
12812-14	Red	Blue	Motor RR CCW (Rev): 4WD Manifold MRRR → Motor RR Port B
12812-15	Red		Motor RR Brake: Main Manifold BR → RR Motor Brake
12812-16	Orange	White	Motor LR Drain: 4WD Manifold MLRD → Motor LR Case Drain
12812-17	Orange	Red	Motor LR CW (Rev): 4WD Manifold MLRR → Motor LR Port A
12812-18	Orange	Blue	Motor LR CCW (Fwd): 4WD Manifold MLRF → Motor LR Port B
12812-19	Orange		Motor LR Brake: Main Manifold BL → LR Motor Brake
12812-20	Yellow	White	Motor LF Drain: 4WD Manifold MLFD → Motor LF Case Drain
12812-21	Yellow	Red	Motor LF CW (Rev): 4WD Manifold MR2 → Motor LF Port A
12812-22	Yellow	Blue	Motor LF CCW (Fwd): 4WD Manifold MLFF → Motor LF Port B
12812-23	Green	White	Motor RF Drain: 4WD Manifold MRFD → Motor RF Case Drain
12812-24	Green	Red	Motor RF CW (Fwd): 4WD Manifold MRFF → Motor RF Port A
12812-25	Green	Blue	Motor RF CCW (Rev): 4WD Manifold MRFR → Motor RF Port B
12812-26	Green		Lock Left Axle: Main Manifold AXL → LH Axle Cyl
12812-27	Black		Lock Right Axle: Main Manifold AXR → RH Axle Cyl
12812-28	Red	Orange	4WD Manifold Pilot: Main Manifold Pilot → 4WD Manifold Pilot
12812-29	Red	Black	4WD Manifold Return: Main Manifold DP → 4WD Manifold DP
12812-30			Main Manifold Return: Main Manifold Tank → Oil Filter Tee
11558-8			Filter Return: Oil Filter → Hydraulic Oil Tank
12812-31			Stab Manifold Pressure: Main Manifold STP → Stab Manifold P
12812-32			Stab Manifold Return: Main Manifold STR → Stab Manifold T
12812-33	Orange		Pump Pressure: Main Manifold Pump → Pump Pressure Port
12812-34			Suction Line: Pump Suction Port → Hydraulic Oil Tank
SR2770 ONLY			
12812-41	Black	Yellow	Raise Stack: Main Manifold LCP → Lift Cyl Extend
12812-42	Black	White	Lift Cyl Drain: Main Manifold LCR → Lift Cyl Drain
SR3370 ONLY			Daine Charle Main Manifeld LCD > Daine Charle Tax
12812-35	Yellow		Raise Stack: Main Manifold LCP → Raise Stack Tee
12812-36	White	Valley	Lower Stack: Main Manifold LCR → Drain Stack Tee
12812-37	White	Yellow	Upper Lift Cyl Extend: Raise Stack Tee → Upper Lift Cyl Extend
12812-38	White	White	Upper Lift Cyl Drain: Drain Stack Tee → Upper Lift Cyl Drain
12812-39	Black	Yellow	Lower Lift Cyl Prain: Prain Stack Tee → Lower Lift Cyl Prain
12812-40	Black	White	Lower Lift Cyl Drain: Drain Stack Tee → Lower Lift Cyl Drain

		_	
Item	Part No	Qty	Description
0.	12567A	1	Main manifold valve block assembly
1.	12567-1	1	Stabiliser divert valve
2.	12567-2	1	Compensator check
3.	12567-3	1	Steering flow control
4.	12567-4	1	Steering directional valve
5.	12567-5	1	Steering relief shuttle
6.	12567-6	1	Steering pilot check
7.	12567-2	1	Steering relief check
8.	12567-8	1	Steering relief valve
9.	12567-9	1	Proportional valve
10.	12567-8	1	Lift relief
11.	12567-11	1	Lift valve
12.	12567-12	1	Drive valve, forward
13.	12567-13	1	Drive counterbalance valve
14.	12567-14	1	Drive check valve
15.	12567-15	1	Free wheel valve
16.	12567-14	1	Drive check valve
17.	12567-13	1	Drive counterbalance valve
18.	12567-18	1	Drive valve, reverse
19.	12567-19	1	Hand pump
20.	12567-20	1	Brake reset valve
21.	12567-21	1	Brake pilot check
22.	12567-22	1	Brake shuttle
23.	12567-23	1	Axle pressure reducing valve
24.	12567-24	1	Brake flow control valve
25.	12567-11	1	Brake selector valve
26.	12567-2	1	Compensator check
27.	12567-27	1	Compensator bleed
28.	12567-8	1	Main relief
29.	12567-29	1	Compensator
30.	10992-2	2	Test point, 9/16" UNO
31.	12770-330606	5	Adapter, straight, 9/16" UNO -> 3/8" STCF
32.	12770-330806	3	Adapter, straight, 3/4" UNO -> 3/8" STCF
33.	12770-330808	4	Adapter, straight, 3/4" UNO -> 1/2" STCF
34.	12770-331212	1	Adapter, straight, 1 and 1/16" UNO -> 3/4" STCF
35.	12770-340808	1	Adapter, 45° elbow, 3/4" UNO -> 1/2" STCF
36.	12770-350606	1	Adapter, straight, 9/16" UNO -> 3/8" STCF
37.	7025-001	1	Adapter, straight, 9/16" UNO -> 9/16" JICM
38.	7035-001	1	Plug, 9/16" UNO



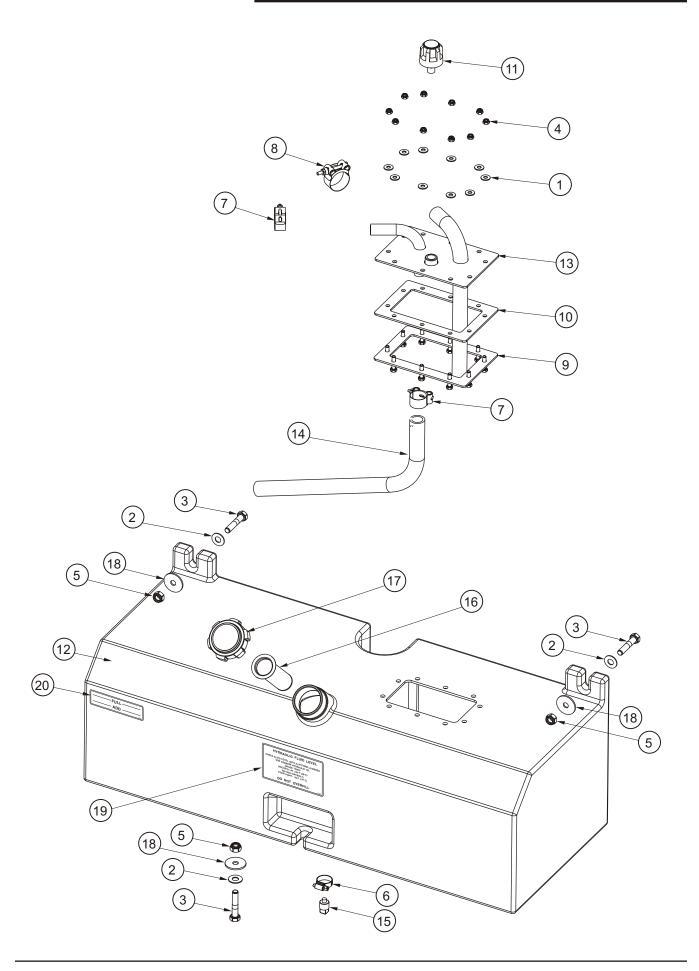
Item	Part No	Qty	Description
0. 1. 2. 3. 4. 6. 7. 8. 9.	12569A 12770-350606 12770-330806 12770-330808 12569-1 12569-5 12569-3 12569-4 12569-2	1 5 8 1 2 1 2 2 2 2	4 wheel drive manifold block assembly Adapter, 90° elbow, 9/16" UNO -> 3/8" STCF Adapter, straight, 3/4" UNO -> 3/8" STCF Adapter, straight, 9/16" UNO -> 3/8" STCF Adapter, straight, 3/4" UNO -> 1/2" STCF Selector valve series parallel Pilot operated selector valves NC Flow divider combiner Drive motor relief valves Pilot operated selector valves NO
	4	1 3	8 2 2 9 9 9 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1
		1	

Item	Part No	Qty	Description
0.	12568A	1	Stabiliser valve block assembly
1.	12568-1	4	Stabiliser directional valve
2.	12770-330606	9	Adapter, straight, 9/16" UNO -> 3/8" STCF
3.	12770-330808	1	Adapter, straight, 3/4" UNO -> 1/2" STCF



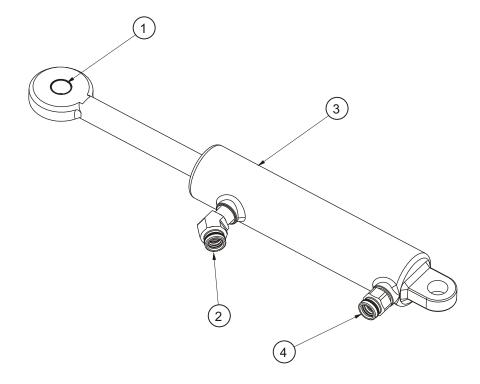
Hydraulic oil tank assembly

Item	Part No	Qty	Description
1.	3603-06	10	Plain washer
2.	3603-10	3	Plain washer
3.	3610-10050	3	Metric bolt
4.	3611-06	10	Nyloc nut
5.	3611-10	3	Nyloc nut
6.	3618-11	1	Hose clamp
7.	3618-26	2	Hose clamp
8.	3618-32	1	Hose clamp
9.	11430-1	1	Base plate weld
10.	11430-5	1	Gasket
11.	11487	1	Filter breather
12.	11558-1	1	Tank, 13 gallon
13.	11558-2	1	Top plate weld, plated
14.	11558-8	1	Tank inner hose
15.	452756	1	Plug, magnetic
16.	605246	1	Strainer, hydraulic tank filler
17.	605256	1	Cap, vented, standard
	11955	1	Cap, lockable, option
18.	5560179	3	Flat washer, special
19.	451776	1	Decal, hydraulic fluid
20.	302950	1	Decal, hydraulic fluid, max/min level

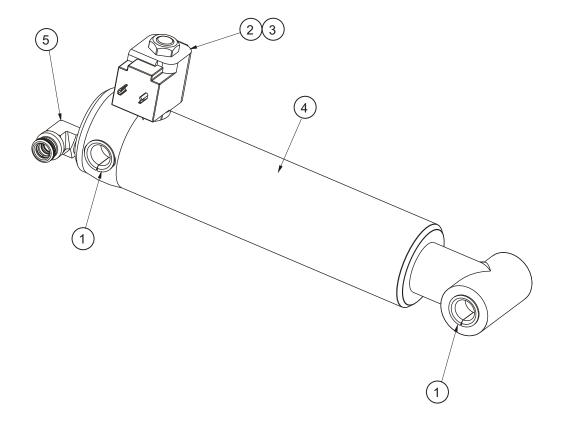


Steer axle cylinder

Item	Part No.	Qty	Description
1.	3624-27	1	Permaglide bush
2.	12770-340406	1	Adapter, male SAE to female STC
3.	11699	1	Steer cylinder
4.	12770-330406	1	Adapter, male SAE to female STC, straight
	11699K	1	Seal kit

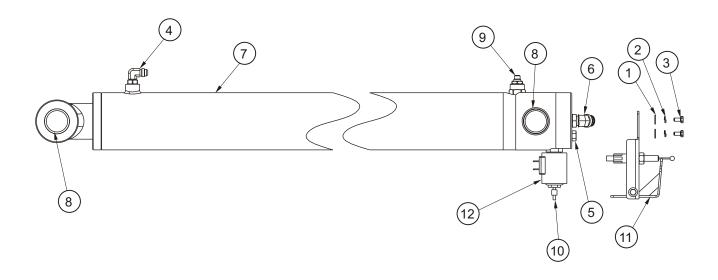


Item	Part No.	Qty	Description
1.	3626-3	4	Flanged permaglide bush
2.	11368-2	1	Solenoid valve and coil (Prior to Serial Number NZ070116)
	12835-1	1	Cartridge (from Serial Number NZ070116)
3.	12835-2	1	Coil (from Serial Number NZ070116)
4.	11642	1	Axle cylinder
5.	12770-350606	1	Adapter, Male SAE to female STC, 90° adjustable
	11642K	1	Seal kit



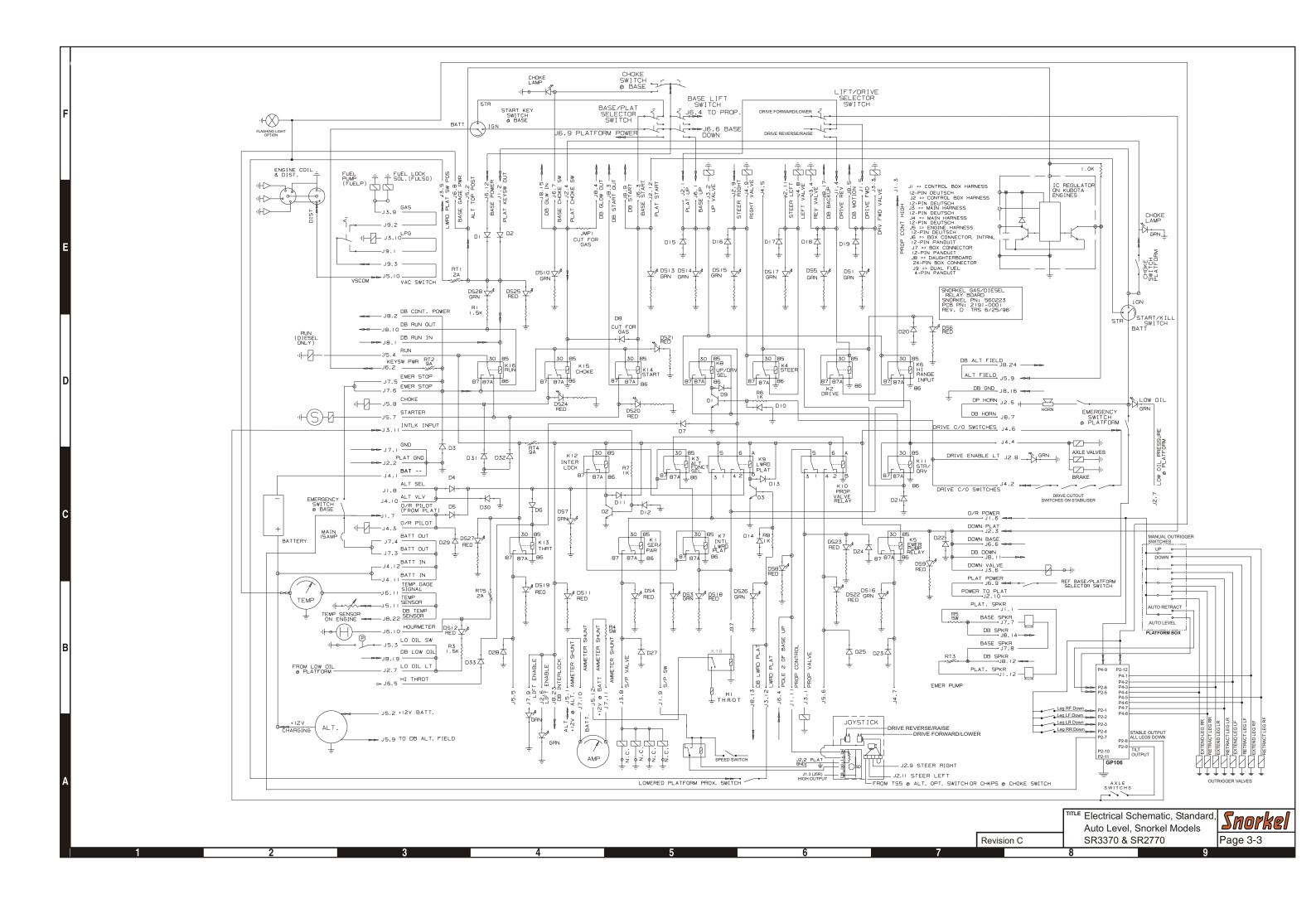
Main lift cylinder assembly

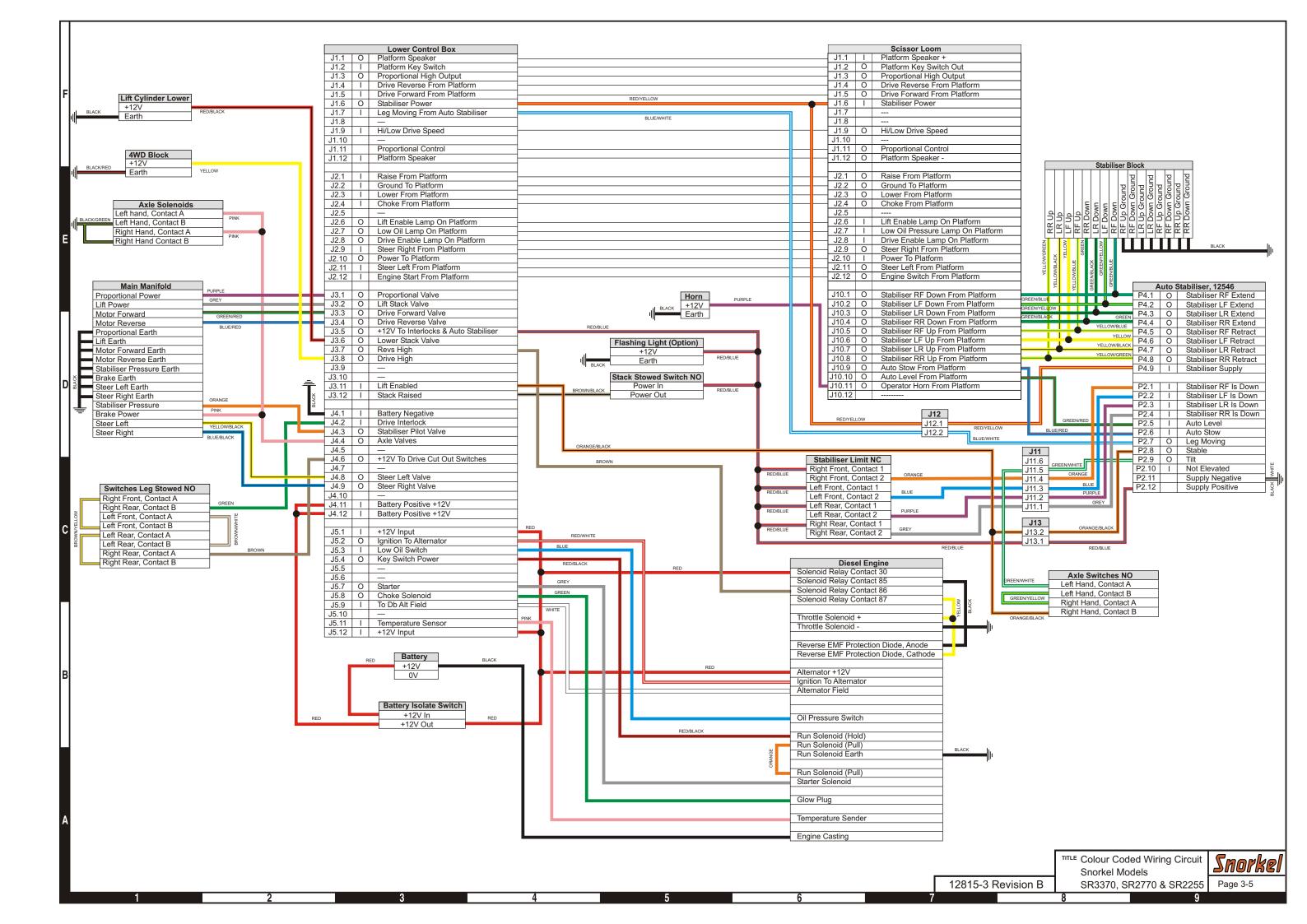
Item	Part No	Qty	Description
1.	3603-06	2	Plain washer
2.	3605-06	2	Spring washer
3.	3610-06012	2	Metric bolt
4.	7031-001	1	Adaptor, elbow 90° 9/16 JICM -> 9/16 UNO
5.	7035-001	1	Plug
6.	12770-340808	1	Adaptor, elbow 45° 1/12 UNO -> 1/2 STC F
7.	11687	1	SR lift cylinder
8.	56112-6	6	Bushing
9.	6010833	1	Valve, cartridge, adjustable
10.	6018024	1	Solenoid valve, 2 way, normally closed
11.	12752A	1	Cylinder bleed down bracket assembly
12.	12677	1	Coil
	11687K	1	Seal kit

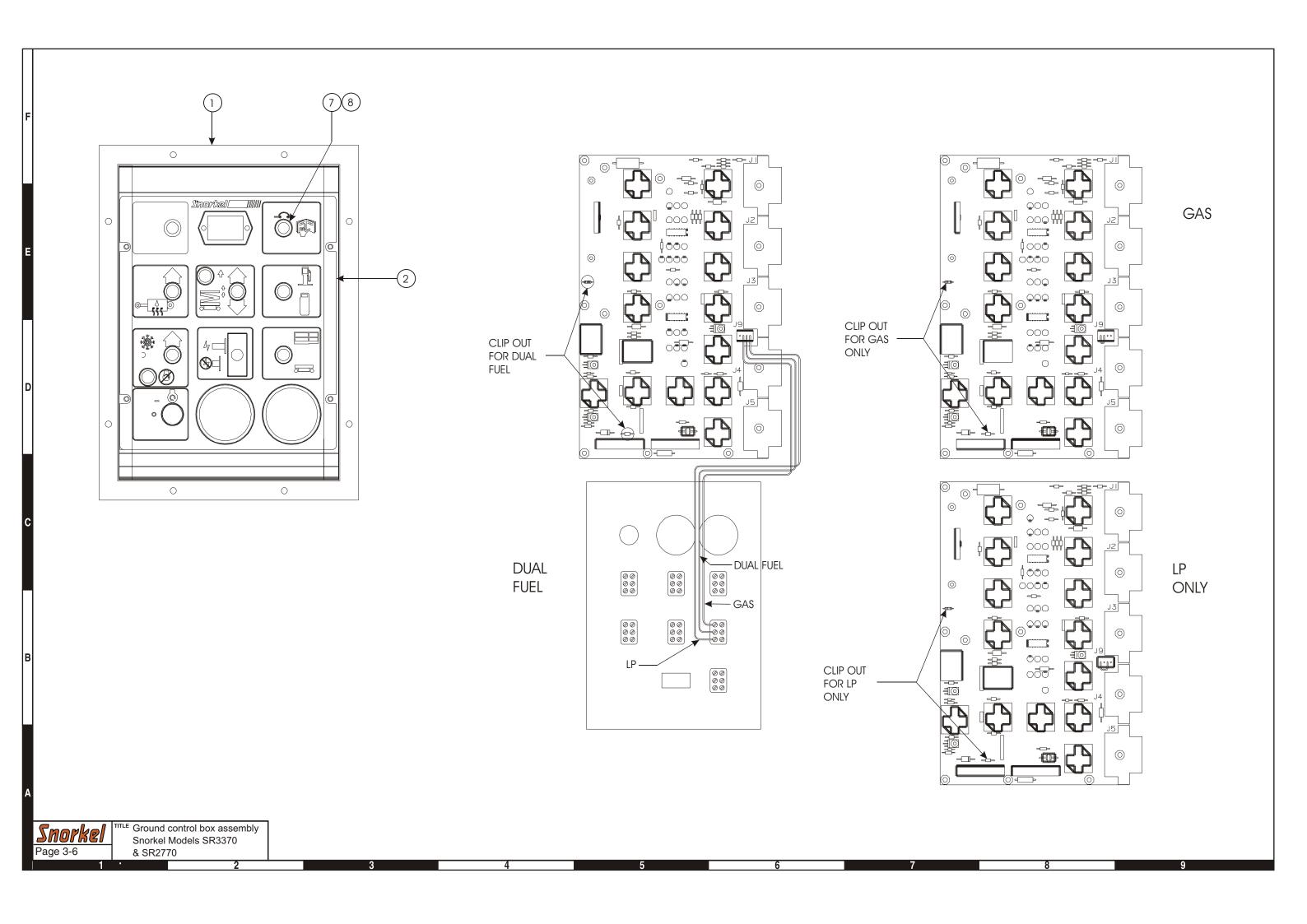


Section 3. - Electrical

Electrical Schematic drawing - Auto Level 3-3
Colour coded wiring circuit
Ground control box assembly drawing 3-6
Ground control box assembly
Ground box
Ground box drawing - sheet 1
Ground box drawing - sheet 2 3-10
Platform control box assembly
Platform Control Box Assembly drawing
Sheet 1
Platform Control Box Assembly drawing
Sheet 2



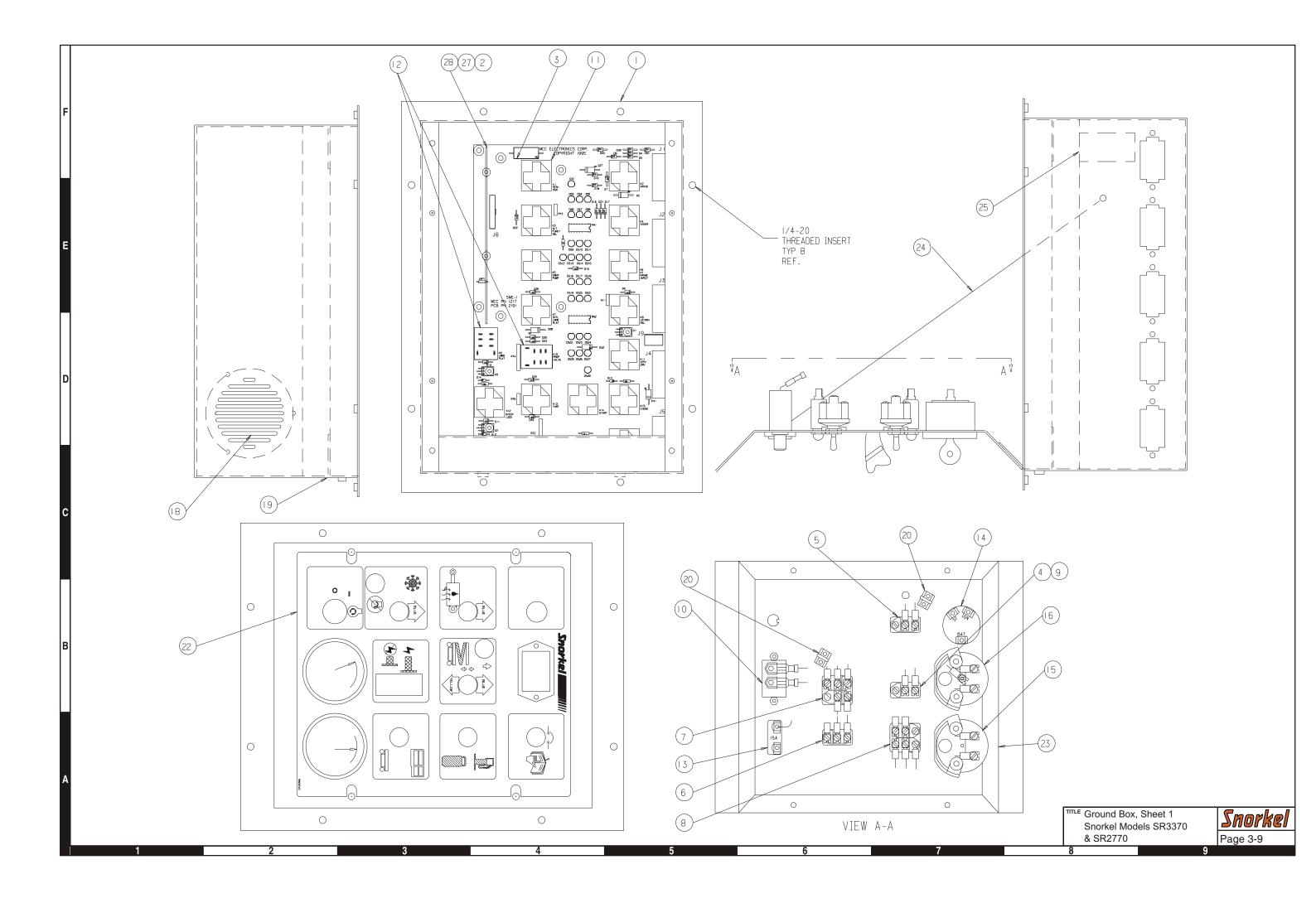


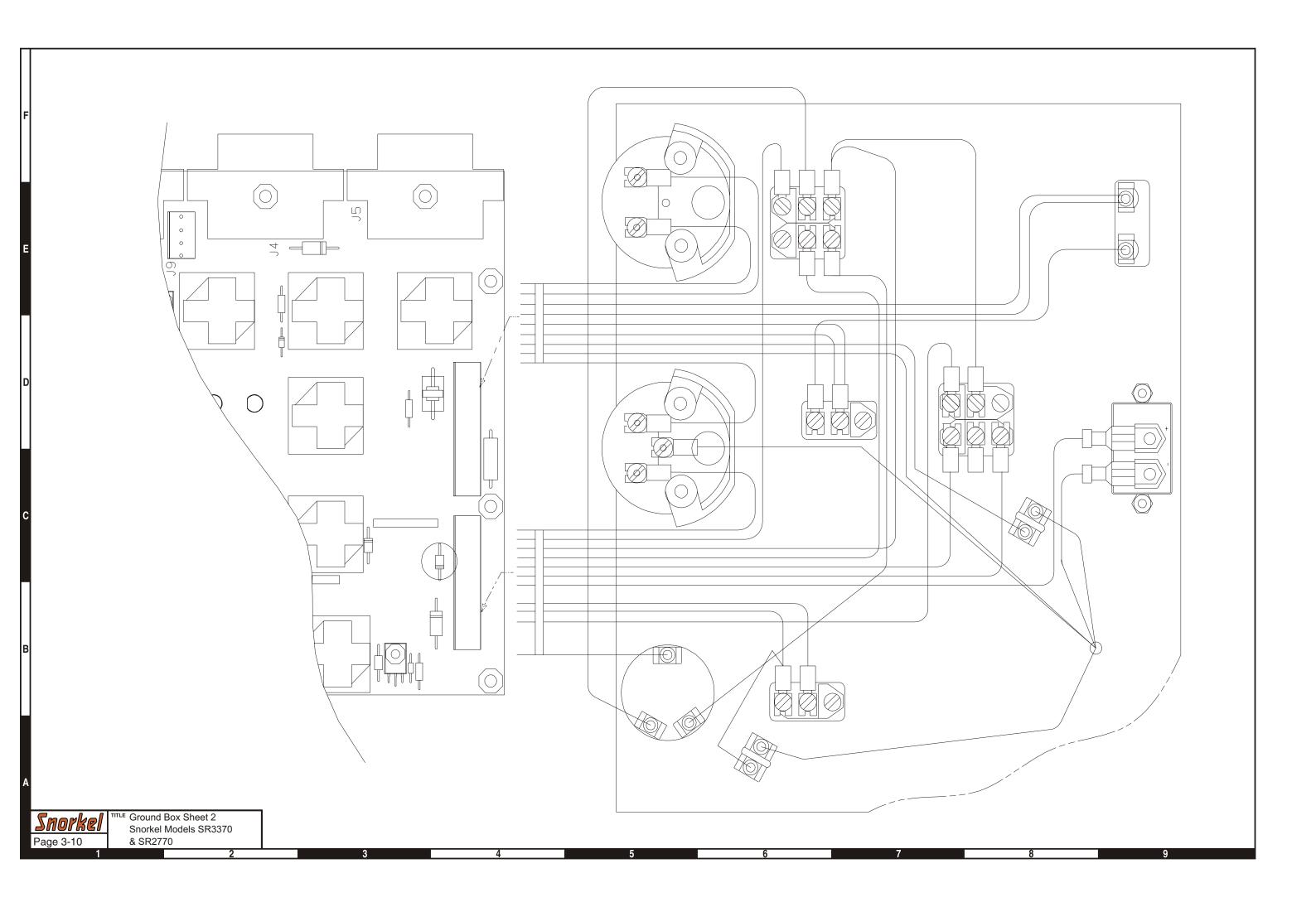


Item	Part No	Qty	Description
	560351		Ground control box assembly, Kubota D905 diesel units
1.	560222	1	Ground box (see page 3 - 8)
2.	560240	1	Decal, ground control
7.	3040068	1	Circuit breaker 20 amp
8.	3044167	1	Terminal #10 spade 16/14 wire

Ground box

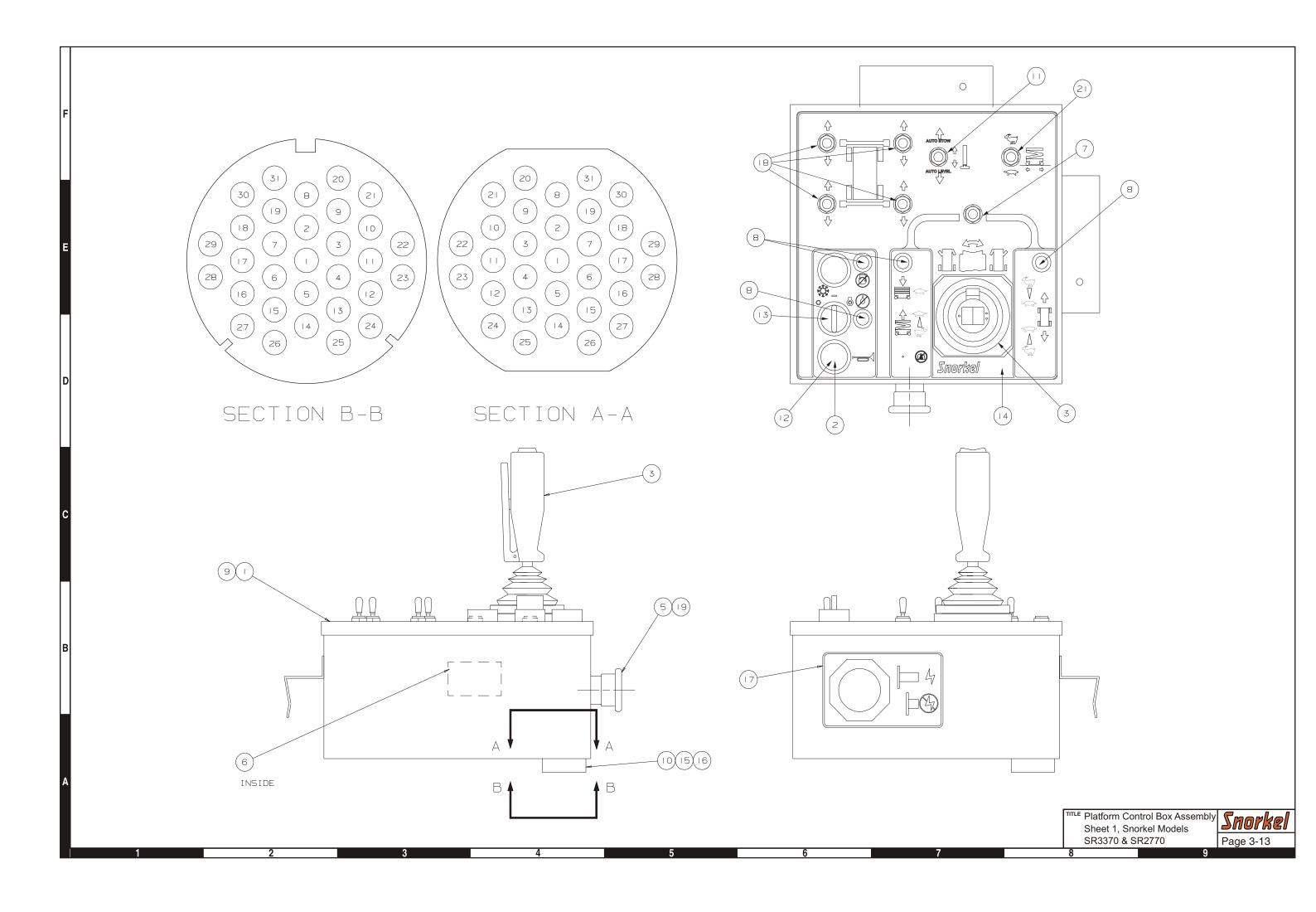
Item	Part No	Qty	Description
0.	560222	1	Ground box, complete
1.	560229	1	Ground electrical box
2.	560224	1	Alarm board/daughter board
3.	560223	1	Relay board/mother board
4.	3020013	1	Switch, toggle
	446836	1	Switch, push/pull emergency stop, CE only
	446826	1	Contact block, CE only
5.	3020015	1	Switch, toggle
6.	3020016	Ref	Switch, toggle
7.	3010018	1	Switch, toggle
8.	3020097	1	Switch, toggle
	3020167	1	Key switch, CE only
	3049906	1	Mounting base, CE only
9.	562236	1	Switch guard, not required for CE
10.	455186	1	Hour meter
11.	562326	14	Relay, 12 volt DC - 20/30 amp
12.	560390	2	Relay, 12 volt DC - 10 amp
13.	563686	1	Circuit breaker, 15 amp capacity thermal
14.	3020087	1	Key switch
	10113	1	Start switch, CE only
	9776	1	Mounting base, CE only
	10114	1	Contact, CE only
15.	560394	1	Temperature gauge
16.	560396	1	Ammeter
17.	560397	1	Internal wire harness
18.	302832	1	Speaker
19.	302882	1	Drain plug
20.	560377	1	Lamp, green bezel 12 volt
21.	3040068	Ref	Circuit breaker, 20 amp capacity thermal
22.	560240	Ref	Decal, ground control
23.	560398	1	Gasket
24.	560389	1	Door restraint cable
25.	0070967	1	Corrosion inhibitor
26.	560395	1	Temperature sensor
27.	302856	2	Bracket for daughter board
28.	302855	2	Stand-off for daughter board





Platform control box assembly

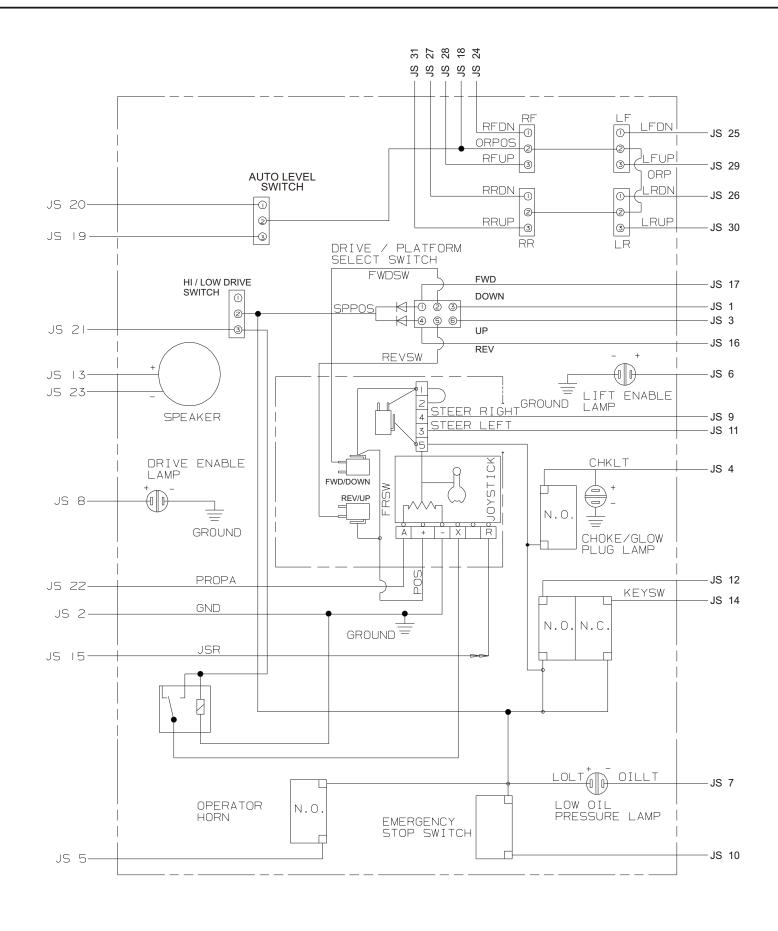
Item	Part No	Qty	Description
0.	560221	1	Platform control box assembly
1.	560228	1	Platform control box
2.	560332	1	Switch, push button
3.	560225	1	Joystick controller
4.	560376	1	Internal wire harness
5.	446836	1	Switch, push/pull emergency stop
6.	0070967	1	Corrosion inhibitor
7.	3020097	1	Switch, toggle
8.	560377	4	Led lamp, green 12 volt
9.	560375	1	Gasket
10.	3049847	1	Electrical connector
11.	3020016	1	Switch, auto level
12.	560332	1	Switch, operator horn
13.	560379	1	Switch, start/kill
14.	560241	1	Placard, platform control box
15.	3040099	1	Electrical connector lock washer
16.	3040098	1	Electrical connector lock nut
17.	560272	1	Placard, emergency stop
18.	3020016	4	Switch, outriggers (if installed)
19.	446826	1	Contact block, emergency stop
20.	560378	1	Diode wire assembly
21.	563736	1	Switch, toggle



	 "		
ŀ	PIN#		LOWER BASE END OF CONTROL CABLE
	IS 1	J2.3	LOWER FROM PLATFORM
	IS 2	J2.2	PLATFORM GROUND WIRE
_	IS 3	J2.1	RAISE FROM PLATFORM
_	IS 4	J2.4	CHOKE/GLOW PLUG SWITCH AT PLATFORM
_	IS 5	J10.11	OPERATOR HORN
	IS 6	J2.6	LIFT ENABLE LAMP
J	IS 7	J2.7	PLATFORM LOW OIL PRESSURE LAMP
J	IS 8	J2.8	PLATFORM DRIVE ENABLE LAMP
J	IS 9	J2.9	STEER RIGHT
J	IS 10	J2.10	POWER TO PLATFORM (14 GA)
	IS 11	J2.11	STEER LEFT
	IS 12	J2.12	START SWITCH FROM PLATFORM
J	IS 13	J1.1	PLATFORM SPEAKER
J	IS 14	J1.2	PLATFORM KEY SWITCH OUT
* J	IS 15	J1.3	PROPORTIONAL HIGH OUTPUT
J	IS 16	J1.4	DRIVE REVERSE
_	IS 17	J1.5	DRIVE FORWARD
⊧ J	IS 18	J1.6	OUTRIGGER SUPPLY
J	IS 18	J12.1	OUTRIGGER SUPPLY
	IS 19	J10.9	AUTO STOW
J	IS 20	J10.10	AUTO LEVEL
J	IS 21	J1.9	HI/LOW DRIVE SWITCH
J	IS 22	J1.11	PROPORTIONAL CONTROL
	IS 23	J1.12	PLATFORM SPEAKER
J	IS 24	J10.1	OUTRIGGER RF DOWN
J	IS 25	J10.2	OUTRIGGER LF DOWN
	IS 26	J10.3	OUTRIGGER LR DOWN
J	IS 27	J10.4	OUTRIGGER RR DOWN
J	IS 28	J10.5	OUTRIGGER RF UP
J	IS 29	J10.6	OUTRIGGER LF UP
J	IS 30	J10.7	OUTRIGGER LR UP
J	IS 31	J10.8	OUTRIGGER RR UP

* NOTE: INPUT FROM JSR (JS 15) ONLY IF LOWER PLATFORM SWITCH IS MADE!

‡ NOTE: JS 18 T'S IN CONTROL CABLE TO J1.6 AND J12.1



Sheet 2, Snorkel Models SR3370 & SR2770

Revised 16-08-2006

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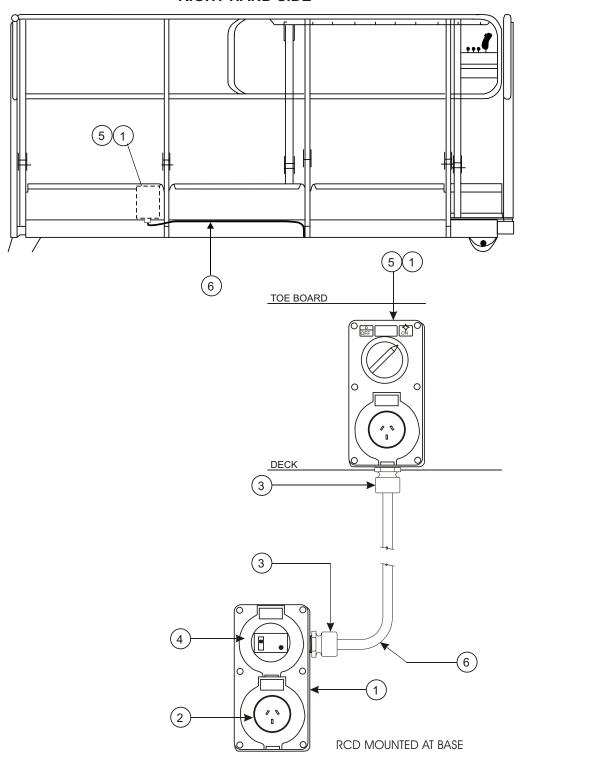
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Section 4. - Options

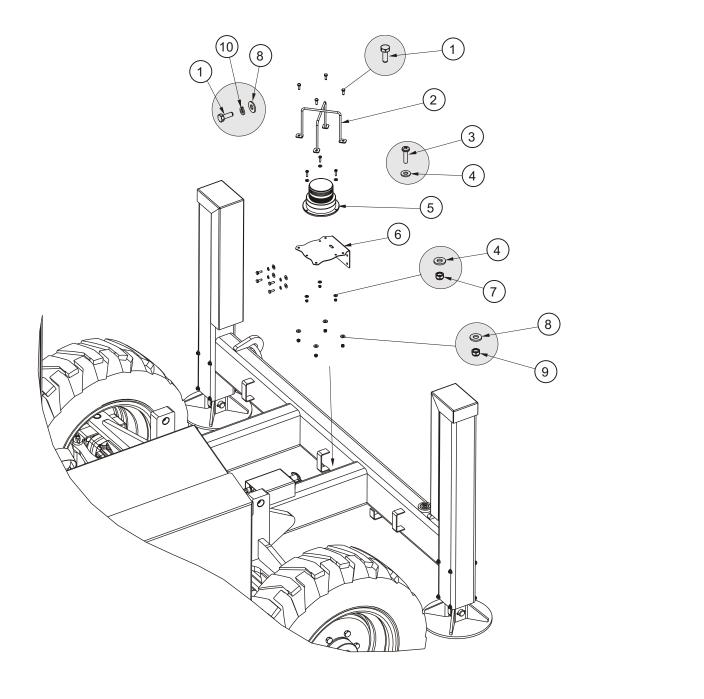
AC outlet at platform, 230 volt	4-2
Flashing light installation	4-3
Fuel gauge option	1-4

Item	Part No	Qty	Description
1.	10967-3	2	PDL enclosure
2.	10967-1	1	Residual current device (with appliance inlet pins)
3.	1814	2	M20 nylon cable gland
4.	10967-2	1	Appliance inlet
5.	2500-014	1	Switch outlet
6.	1812	1	3 core x 1.5 tpe flex cable

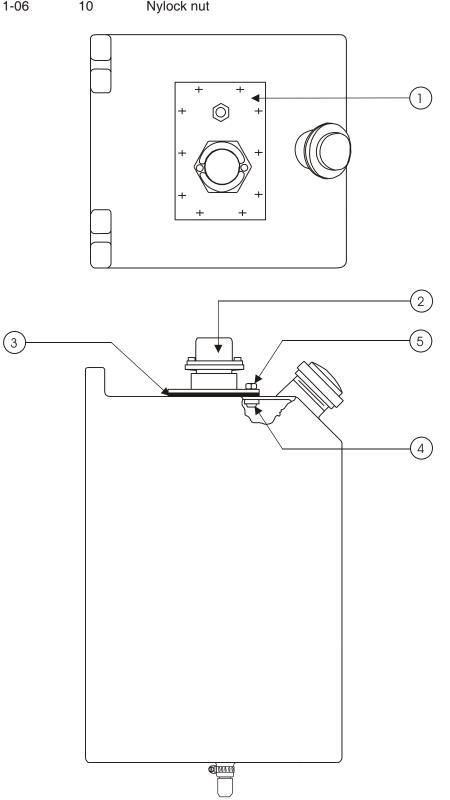
RIGHT-HAND SIDE



Item	Part No	Qty	Description
1.	3610-06016	8	Bolt
2.	12034	1	Guard, strobe light
3.	3604-05020	3	Screw, pan head
4.	3603-05	6	Plain washer
5.	1866-003	1	Strobe, amber
6.	1866-002	1	Bracket, strobe light
7.	3611-05	3	Nyloc nut
8.	3603-06	8	Plain washer
9.	3611-06	4	Nyloc nut
10.	3605-06	4	Spring washer



Item	Part No	Qty	Description
0.	11507	1	Fuel gauge option
1.	11430-9	1	Top plate fuel tank
2.	0070483	1	Fuel gauge
3.	11430-5	1	Gasket
4.	11430-1	1	Base plate weld
5.	3611-06	10	Nylock nut



230 Volt AC outlet at platform, 4-2 AC outlet at platform, 230 volt AC, 4-2 Decal and placards installation, 1-32 Gradeability, 2-3, 2-4 Ground clearance, 2-3, 2-4 Ground control box assembly, 3-7 Insulation rating, 2-3, 2-4 Joystick controller, 3-12 Key switch, 3-8 Lift time, 2-3, 2-4 Maintenance, 0-7 Maintenance schedules, 0-8 Manual organisation See Maintenance information - page 3 Manual Organization, 0-7 Maximum rated axle capacity, 2-3, 2-4 Nominal working height, 2-3, 2-4 0 Overall height, 2-3, 2-4 Overall length (with stabilizers), 2-3, 2-4 Overall weight, 2-3, 2-4 Placards and decals installation, 1-32 Platform control box assembly, 3-12 Platform size, 2-3, 2-4 S Safe working load (main deck), 2-3, 2-4 Safe working load (roll out deck), 2-3, 2-4 Speed (maximum drive), 2-3, 2-4 Temperature sensor, 3-8 Travelling height, 2-3, 2-4 Turning radius (inner), 2-3, 2-4 Turning radius (outer), 2-3, 2-4 Warranty - Limited See inside front cover

Working height, 2-3, 2-4

Weight, 2-3, 2-4

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EUROPE, MIDDLE EAST AFRICA & ASIA

PHONE: +44 (0) 845 1550 057 **FAX:** +44 (0) 845 1557 756

NORTH & SOUTH AMERICA

PHONE: +1 785 989 3000 TOLL FREE: +1 800 255 0317 FAX: +1 785 989 3070

AUSTRALIA

PHONE: +61 1300 900 700 **FAX:** +61 2 9609 3057

NEW ZEALAND

PHONE: +64 6 3689 168 **FAX:** +64 6 3689 164

