snorkel

S3010E



CE

PARTS & SERVICE MANUAL

Part Number 514226-200
FEB 2025

Serial Number 000000 and after

MidWestTech | Snorkel S3010E Scissor Lift Parts and Service Manual | Publication 514226...

Order the manual at mid-west-tech.com >

TROUBLESHOOTING

1. Verify your problem.

- Do a full function test from both the platform and chassis controls, and note all functions that are not operating correctly.

2. Narrow the possible causes of the malfunction.

- Use the troubleshooting guide to determine which components are common to all circuits that are not functioning correctly.

3. Identify the problem component.

- Test components that are common to all circuits that are not functioning correctly. Remember to check wires and terminals between suspect components. Be sure to check connections to battery negative.

4. Repair or replace any component found to be faulty.
5. Verify that repair is complete.

- Do a full function test from both the platform and chassis controls to verify that all functions are operating correctly and that the machine is performing to specified values.

SPECIAL TOOLS

Following is a list of tools which may be required to perform certain maintenance procedures on the S3010E work platforms.

- Flow Meter with Pressure Gauge
  (P/N 067040-000)
- 0-69 bar (0-1000 psi) Hydraulic Pressure Gauge with Adapter Fittings (P/N 014124-010)
- 0-207 bar (0-3000 psi) Hydraulic Pressure Gauge with Adapter Fittings (P/N 014124-030)
- Adapter Fitting (P/N 063965-002)
- Inclinometer (P/N 010119-000)
- Crimping Tool (P/N 028800-009)
- Terminal Removal Tool (P/N 028800-006)

ADJUSTMENT PROCEDURES

Hydraulic settings must be checked whenever a component is repaired or replaced.

Connect a pressure gauge of appropriate range to the test port located on the hydraulic manifold.

Correct pressure settings are listed in the hydraulic schematic.

CHECKING PUMP PRESSURES

Remove hose from pump port and connect pressure gauge.

Order the manual at mid-west-tech.com >

Item	Part No.	Name	Qty	Uom
1	0120525	WELDMENT IST INNER ARM	1	EA
2	0120519	WELDMENT 1ST OUTER ARM	1	EA
3	0120548	WELDMENT 2ND INNER ARM	1	EA
4	0120549	WELDMENT 3RD OUTER ARM	1	EA
5	0120539	WELDMENT 3RD INNER ARM	1	EA
6	0120553	WLDNT TUBE 2ND OUTER ARM RH S3010P/S3210P	1	EA
7	0120554	WLDNT TUBE 2ND OUTER ARM LH - S3010P/S3210P	1	EA
8	0120557	WELDMENT PIN	6	EA
9	0120559	WELDMENT PIN	2	EA
10	0120560	KEEPER PIN	2	EA
11	056021-008	M8 SPRING WASHER	8	EA
12	058510-020	M8 x 20 SOCKET HD CTS SCREW - 12.9	2	EA
13	2509723	BRG 25mm X28mm X 30mm LG CSB-5	14	EA
14	2509724	BRG 25mm ID X 28mm OD X 40mm LG	2	EA
15	0120616	BLOCK SLIDE	2	EA
16	0120612	BLOCK SLIDE	2	EA
17	0120658	CYLINDER,LIFT S3010P/S3210P - EMC	1	EA
17	513064-000	CYLINDER,LIFT S3010P/S3210P - PB	1	EA
18	057577-000	dia.20 EXTERNAL CIRCLIP	4	EA
19	1360088	WLDMT, PIVOT BRKT BLEED DOWN	1	EA
20	0120786	COVER COIL	1	EA
21	0120820	WLDMT BLEED DOWN LEVER	1	EA
22	058492-020	Bolt HexSetScrew DIN933 M8 x 20mm 8.8 ZincPlated	8	EA
23	NL222510CZ	NUT HEX NL M22X2.5 10.9 C	6	EA

MidWestTech | Snorkel S3010E Scissor Lift Parts and Service Manual | Publication 514226... Order the manual at mid-west-tech.com >

Item	Part No.	Name	Qty	Uom
----	513776-000	Platform Control Loom	1	EA
----	517203-000	PLATFORM CONTROL HARNESS, LSS	1	EA
----	513777-000	GROUND CONTROL LOOM (NO CANBUS) Not illustrated.	1	EA
----	517204-000	GROUND CONTROLHARNESS LSS	1	EA
----	513795-000	Battery Cable - Live	1	EA
----	517205-000	UPPER CONTROL HARNESS, LSS S3010E	1	EA
----	513796-000	Battery Cable - Negative	1	EA
----	513797-000	Pump to Fuse Cable	1	EA
----	513798-000	Battery Cable - Link	1	EA
1	513800-001	CABLE ASSEMBLY 550mm	1	EA
2	513800-002	CABLE ASSEMBLY 500mm	1	EA
3	513800-003	CABLE ASSEMBLY 550mm	1	EA
4	513800-004	CABLE ASSEMBLY 2800mm	2	EA
5	513800-005	CABLE ASSEMBLY 2800mm	2	EA
	510351-000	GROUND PANEL- INTERNAL WIRE HARNESS- NOT SHOWN	1	EA

MidWestTech | Snorkel S3010E Scissor Lift Parts and Service Manual | Publication 514226... Order the manual at mid-west-tech.com >

3-5 General Lubrication

Scissor Slide Blocks and Channels:

Approved Lubricant :
Interflon Fin Lube TF

The use of Interflon Fin Lube is recommended as it dries to prevent dirt contamination of lubricated parts unlike other greases and gives excellent long lasting protection against wear.

The use of other types of 'heavy' grease are therefore not recommended.

Application:
Aerosol, Brush or Mist Application.

Lubricant should be applied as a extremely thin coating around the visible edges of the Nylon Pads and along the Chassis and Platform slide channels.
It is recommended that the Nylon slide pads are cleaned and the Fin Lube TF reapplied at six monthly intervals and/or 12 monthly routine Inspection / Service.

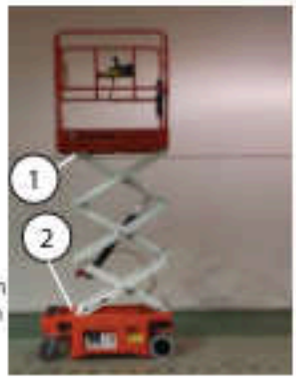
Platform/Chassis Nylon Pad Lubrication :

Approved Lubricant :
Interflon Fin Lube TF

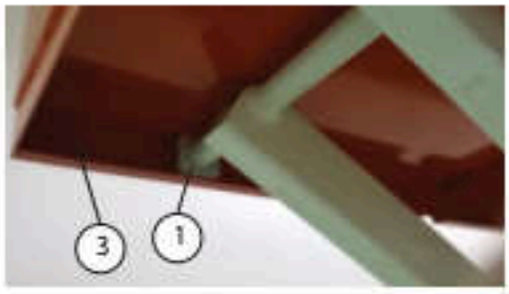
Application:

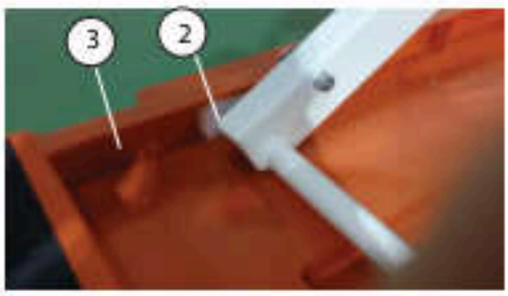
1. From the lower controls, raise the platform and block the elevating assembly (see Figure 3-1: "Supporting Elevating Assembly," on page 3-3).
2. Clean Nylon Pads and Channels first with an organic or Alkaline quick drying cleaning agent.
3. Shake container gently before use. Provide adequate ventilation.
4. Spray a mist of Fin Lube TF sparingly onto each of the Nylon Pads and along the Nylon Pad channel.
5. With a clean paper towel /cloth spread the Fin Lube TF along Nylon Pad channel removing superfluous lubricant.
   Note: Fin lube TF works at its optimum with a thin layer rather than a thick layer. Do not use too much.
6. From the lower controls, remove block and lower the platform (see Figure 3-1: "Supporting Elevating Assembly," on page 3-3).

Nylon Pad Lubrication (Fin Lube)



1. Platform pad location
2. Chassis pad location
3. Nylon Pad channel





MidWestTech | Snorkel S3010E Scissor Lift Parts and Service Manual | Publication 51... Order the manual at mid-west-tech.com >

REPLACING THE TS100 CONTROL MODULE

If for any reason you have to replace the TS100 control module it is important that you complete the following procedures:

⚠ WARNING ⚠

If the TS100 control module is replaced and/or moved within the machine for any reason the tilt sensor must be reset for zero ° using the following procedure.
Failure to do so could result in serious injury or death.

To follow this procedure you need to switch the Ezcal display in the upper Control box into "calibration mode".

1. Place the machine on a firm level surface , ≤ 0.25 °
2. Use a Gauge to confirm that the front and rear of the chassis are level to within +/- 0.25 ° in both directions
3. Switch the machine on and press and hold Esc for 5 Seconds until "Ezlift Menu" is displayed.
4. Scroll to access level.(Enter)
5. Enter code 2222 for access level 2 .(Enter)
6. Scroll to setups.(Enter)
7. Change defaults. (Enter)
8. Select Part Number = 1 (Enter)
9. Scroll to model. (Enter)
10. Select Model = 4 (Enter followed by ESC)
11. Scroll to tilt setups . (Enter)
12. Calibrate level. (Enter)
13. Enter for yes.



To confirm calibration has worked switch the machine of then back on again.

14. Scroll to Diagnostics. (Enter)
15. System. (Enter)
16. Scroll to tilt, both readings should be below 0.2 ° if not repeat from 5.

TROUBLESHOOTING TABLES

The next step is to refer to the Troubleshooting charts in Tables.
Refer to Hydraulics Section for detailed Troubleshooting information on the Pump/Motor Controller.
Read and understand the Principles of Operation before commencing any trouble shooting.

⚠ WARNING ⚠

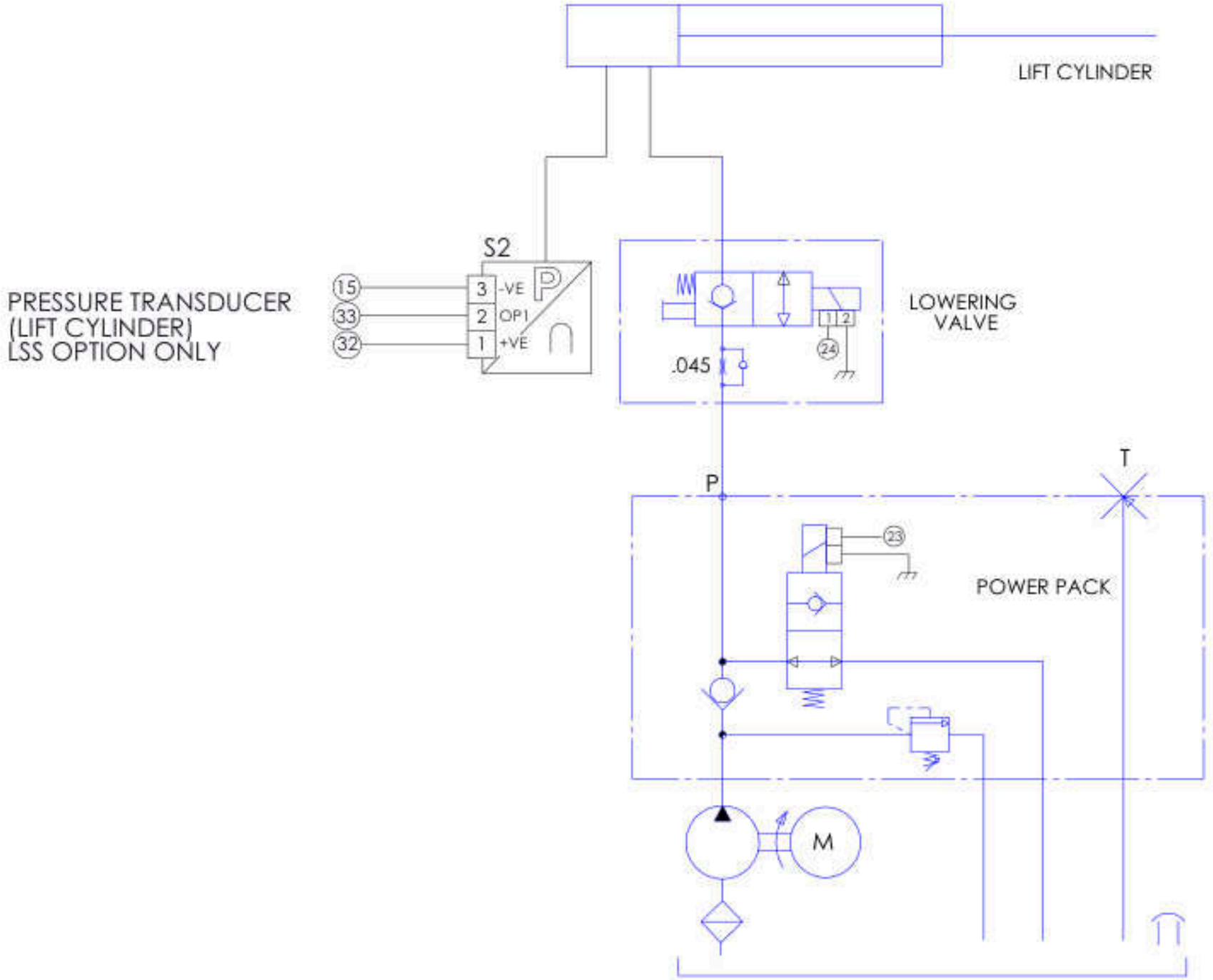
RISK of SERIOUS INJURY.

Ensure that the work platform is resting on a firm, level surface.

The elevating assembly must be supported by an overhead hoist when troubleshooting and servicing the electrical/hydraulic system.

Order the manual at mid-west-tech.com >

HYDRAULIC SHEMATIC S3010E (Including LSS)



Order the manual at mid-west-tech.com >