snorkel

SL30RTE
SL26RTE



CE

REPAIR PARTS
MANUAL

Part Number 516123-200E

SL26RTE / SL30RTE

MidWestTech | Snorkel SL26RTE, SL30RTE Self-Leveling Work Platform Repair Parts Man... Order the manual at mid-west-tech.com >

Item	Part No.	Name	Qty	Uom
	516214-000	DECAL KIT SL30RTE - ENGLISH		EA
1	516232-001	Decal, Snorkel SL30RTE	2	EA
2	516232-000 (Contains 516376-000 Li Logo)	Decal, Snorkel SL30RTE	2	EA
3	515335-100	QR DECAL	1	EA
4	516213-000	Decal, Isolator On	1	EA
5	066550-005	Warning	1	EA
6	508494-068	LWA Decal 68 dB	1	EA
7	066551-003	Tipping hazard	1	EA
8	066551-002	Tipping hazard	2	EA
9	066554-000	DECAL, BEFORE OPERATING	1	EA
10	510280-000	DECAL, IPAf EMERG LWR	1	EA
11	066555-000	DECAL, RELIEF VALVE	1	EA
12	064374-000	Decal, To level	1	EA
13	066563-000	Distance to ground	1	EA
14	101210-000	Risk of hydrogen gas and battery leakage	1	EA
15	066556-900	DECAL DANGER (ABOVE)	2	EA
16	-----	(OPTIONAL DRIVE MODES/	--	EA
17	505573-001	Safe working load	1	EA
18	516231-000	Decal, Snorkel RTE Batteries	1	EA
19	058531-000	DECAL - TIE DOWN/LIFT POINT 4	4	EA
20	510787-000	Hydraulic fluid	1	EA
21	------	OPTIONAL REVERSIBLE FAN)	--	EA
22	010076-901	DECAL, DOCUMENT BOX	1	EA
23	068635-001	DECAL, HARNESS HARD POINT	4	EA
24	302950	Decal, Hydraulic Oil Level Max/Min	1	EA
26	508875-000	Decal, side force 400 N	2	EA
25	510885-000	Decal, wheel loading	4	EA

MidWestTech | Snorkel SL26RTE, SL30RTE Self-Leveling Work Platform Repair Parts Man... Order the manual at mid-west-tech.com >

Item	Part No.	Name	Qty	Uom
	514721-000	HYDRAULIC VALVE BLOCK DRIVE		EA
1	510760-000	Cartridge (PORT: SVDI)	1	EA
2	514878-000	Coil (PORT: CL3)	2	EA
3	510762-000	Head cap screw (PORT: CSI)	4	EA
4	510763-000	Cartridge (PORT: SV4, SV5)	2	EA
5	510764-000	Cartridge (PORT: SVI3)	1	EA
6	510765-000	Cartridge (PORT: SV8, SV11)	2	EA
7	510766-000	Valve (PORT: RV4)	1	EA
8	510767-000	Valve (PORT: PR1)	1	EA
9	510768-000	Valve (PORT: PD2)	1	EA
10	510769-000	Valve (PORT: PD1)	1	EA
11	510770-000	Valve (PORT: PD3)	1	EA
12	510771-000	Valve (PORT: PD4)	1	EA
13	510772-000	Valve (PORT: NV1)	1	EA
14	510773-000	Valve (PORT: LS2, LS4)	2	EA
15	510774-000	Orifice plug (PORT: ORF1, ORF2, ORF3)	3	EA
16	510750-000	Plug (PORT: PLG6)	5	EA
17	510751-000	Plug (PORT: PLG4)	12	EA
18	510775-000	Plug (PORT: PLG3)	1	EA
19	514868-000	Coil (PORT: CL2)	3	EA
20	514869-000	Coil (PORT: CL1)	2	EA
21	510778-000	Valve (PORT: HP1)	1	EA
22	510779-000	Valve (PORT: FD2)	1	EA
23	510780-000	Valve (PORT: FD1, FD3)	2	EA
24	510781-000	Valve (PORT: FC2)	1	EA
25	510782-000	Valve (PORT: FC1)	1	EA
26	510783-000	Cartridge (PORT: CV5, CV6)	2	EA
27	510784-000	Valve (PORT: PC3)	1	EA

MidWestTech | Snorkel SL26RTE, SL30RTE Self-Leveling Work Platform Repair Parts Man... Order the manual at mid-west-tech.com >

Item	Part No.	Name	Qty	Uom
	516041-000	UPPER CONTROL PANEL SLE		EA
1	516043-000	SL26E UPPER CONTROL PANEL	1	EA
2	3028933-001	JOYSTICK CONTROLLER	1	EA
3	512934-000	LED RED 12V	3	EA
4	512935-000	LED GREEN 12V	4	EA
5	510542-000	SW PUSH BUTTON	1	EA
6	3028810	PUSH/PULL ASSY WITH CONTACT	1	EA
7	3020080	SWITCH TOGGLE SPDT MOM/ON	5	EA
8	514485-000	SL UCB enclosure	1	EA
9	NL050810CZ	NUT HEX NL M5X.8 10.9 C	4	EA
10	FLWM0510CZ	WASHER FLAT M5 10.9 C	4	EA
11	058501-016	M5 x 16 S.H.C.S. - GR 12.9	4	EA
12	502588-000	ALARM, ECCO BEEPING 6-28VDC	1	EA
13	515612-000	MATRIX BOARD PG	1	EA
14	510157-000	Housing, Connector, Plug, 12 Way, Crimp Socket, Cable Mount, TE Universal Mate-N-Lok Series	2	EA
15	510156-000	9WAY PLUG; TE 1-480706	1	EA
16	510154-000	6WAY PLUG; TE 1-480704	1	EA
17	058500-025	M4 x 25 SHCS - 12.9	6	EA
18	NL040710CZ	NUT HEX NL M4X0.7 10.9 C	2	EA
19	056069-004	M4 FLAT WASHER ZINC PLT	6	EA
20	509755-000	Mate-N-lock socket contact	26	EA
21	514604-000	LOCKWASHER DEUTSCH 114021	1	EA
22	514605-000	LOCKNUT DEUTSCH 114020-90	1	EA
23	3049862	14 WAY CONNECTOR DEUTSCH HD34-18-14PN	1	EA

MidWestTech | Snorkel SL26RTE, SL30RTE Self-Leveling Work Platform Repair Parts Man... Order the manual at mid-west-tech.com >

TORQUE SPECIFICATIONS

HYDRAULIC COMPONENTS

NOTE: Always lubricate threads with clean hydraulic oil prior to installation
Use the following values to torque hydraulic components used on Snorkel work platforms.

ORFS				JIC Hose fittings				BSP 60° cone	
Thread size	Tightening Nm	FFWR new	FFWR reassembly	Hose dim.	Thread	FFWR hose	FFWR pipe	Thread size	Tightening Nm
9/16" - 18	25	1/2-3/4	1/4-1/2	3/16	7/16"-20 UNF	2	2	1/8"	20
11/16" - 16	35	1/2-3/4	1/4-1/2		1/2"-20 UNF	2	2	1/4"	25
13/16 - 16	55	1/2-3/4	1/4-1/2	1/4	9/16"-18 UNF	2	1 1/2	3/8"	40
1" - 14	80	1/2-3/4	1/4-1/2	3/8	3/4"-16 UNF	2	1 1/2	1/2"	60
1 3/16" - 12	120	1/3-1/2	1/4-1/2	1/2	7/8"-14 UNF	1 1/2	1 1/2	5/8"	70
1 7/16" - 12	150	1/3-1/2	1/4-1/2	3/4	1.1/16"-12 UN	1	1 1/4	3/4"	115
1 11/16" - 12	180	1/3-1/2	1/4-1/2	1	1.3/16"-12 UN	1	1	1"	140
2" - 12	220	1/3-1/2	1/4-1/2	1 1/4	1.5/8"-12 UN	1	1	1 1/4"	200
2 1/2" - 12	400	1/3-1/2	1/4-1/2	1 1/2	1.7/8"-12 UN	1	1		
				2	2.1/2"-12 UN	1	1	1 1/2"	270
								2"	350

Table 3-2: Hose fittings

BSP Thread	Torque (Nm)	UN/UNF Thread	Torque (Nm)
G 1/8"			
G 1/8"	20	7/16"-20 UNF	20
G 1/4"	45	1/2"-20 UNF	25
G 3/8"	70	9/16"-18 UNF	30
G 1/2"	95	3/4"-16 UNF	45
G 1/2"	85		
G 3/4"	170	1 1/16"-12 UN	85
G 1"	330	1 5/16"-12 UN	130
G 1 1/4"	430	1 5/16"-12 UN	170
G 1 1/2"	510	1 7/8"-12 UN	180
		7/8"-14 UNF	55

Table 3-3: Hydraulic fittings

FASTENERS

This standard applies to the pre-loading of fasteners measured by installation torque.

NOTE: For other pre-loading methods or fasteners, consult Snorkel engineering department.

This general standard applies to all SAE and metric fasteners unless otherwise specified.

THREAD CONDITION

- For lube or zinc plated fasteners, use k = 0.15
- For dry unplated fasteners, use k = .20

		SAE J429 Grade 5			SAE J429 Grade 8		
	Nominal Thread Size	Clamp Load	Tightening Torque K=.15	Tightening Torque K=.20	Clamp Load	Tightening Torque K=.15	Tightening Torque K=.20
		lbs.	in-lbs.	in-lbs.	lbs.	in-lbs.	in-lbs.
Unified Coarse Thread Series	1/4 -20	2,000	75	100	2850	107	143
	5/16 - 18	3,350	157	210	4700	220	305
		lbs.	ft-lbs.	ft-lbs.	lbs.	ft-lbs.	ft-lbs.
	3/8-16	4,950	23	31	6950	32.5	44
	7/16-14	6,800	37	50	9600	53	70
	1/2-13	9,050	57	75	12800	80	107
	9/16-12	11,600	82	109	16400	115	154
	5/8-11	14,500	113	151	20300	159	211
	3/4-10	21,300	200	266	30100	282	376
	7/8-9	29,435	321	430	41550	454	606
	1-8	38,600	483	640	54540	680	900

		SAE J429 Grade 5			SAE J429 Grade 8		
	Nominal Thread Size	Clamp Load	Tightening Torque K=.15	Tightening Torque K=.20	Clamp Load	Tightening Torque K=.15	Tightening Torque K=.20
		lbs.	in-lbs.	in-lbs.	lbs.	in-lbs.	in-lbs.
Unified Fine Thread Series	1/4 -28	2,300	85	115	3250	120	163
	5/16-24	3,700	173	230	5200	245	325
		lbs.	ft-lbs.	ft-lbs.	lbs.	ft-lbs.	ft-lbs.
	3/8-24	5,600	26	35	7900	37	50
	7/16-20	7,550	42	55	10700	59	78
	1/2-20	10,200	64	85	14400	90	120
	9/16-18	13,000	92	122	18300	129	172
	5/8-18	16,300	128	170	23000	180	240
	3/4-16	23,800	223	298	33600	315	420
	7/8-14	32,480	355	473	45855	500	668
	1-12	42,270	528	704	59670	745	995

Table 3-4: Torque specifications for SAE fasteners

MidWestTech | Snorkel SL26RTE, SL30RTE Self-Leveling Work Platform Repair Parts... Order the manual at mid-west-tech.com >

INTRODUCTION

WARNING

Be sure to read, understand and follow all information in the operation section of this manual before attempting to operate or perform service on any SL26/30SL work platform.

CAUTION

It is the responsibility of the person carrying out any maintenance operations to ensure that any hazardous substances eg waste oil, batteries or tyres are disposed of in accordance with local regulations.

CAUTION

Detailed descriptions of standard workshop procedures, safety principles and service operations are not included.
Please note that this manual contains warnings and cautions against some specific service methods which could cause personal injury or could damage a machine or could make it unsafe.
Please understand that these warnings cannot cover all conceivable ways in which service, whether or not recommended by Snorkel, might be carried out or of the possible hazardous consequences of each conceivable way nor could Snorkel investigate all such ways.
Anyone using service procedures or tools whether or not recommended by Snorkel, must satisfy themselves thoroughly that neither personal safety nor machine safety will be jeorpardized

This section contains instructions for the maintenance of the SL26/30SL work platform. Procedures for operation inspection, adjustment, scheduled maintenance and repair/removal are included.

Referring to section 2 will aid in understanding the operation and function of the various components and systems of the SL26/30SL work platform and help in diagnosing and repair of the machine.

Refer to page 3-2 for recommended maintenance intervals.

NOTE: Unless otherwise specified, torque all fittings according to the "Torque Specifications for Fasteners" and the "Torque Specifications for Hydraulic Components" on page 3-22 and page 3-23.

SPECIAL TOOLS

The following is a list of special tools which may be required to perform certain maintenance procedures on the work platform.

- 0-600 PSI (0-45 bar) hydraulic pressure gauge
- 0-3500 PSI (0-250) hydraulic pressure gauge
- Inclinometer
- Quick disconnect gauge port

PREVENTATIVE MAINTENANCE

The complete inspection consists of periodic visual and operational checks together with all necessary minor adjustments to assure proper performance. Daily inspection will prevent abnormal wear and prolong the life of all systems. The inspection and maintenance schedule is to be performed at regular intervals.

Inspection and maintenance shall **ONLY** be performed by personnel who are trained and familiar with mechanical and electrical procedures.

WARNING

Before performing maintenance, familiarize yourself with the operation of the machine. Always chock the elevating assembly whenever it is necessary to enter elevating assembly.

The preventative maintenance table has been designed to be used primarily for machine service and maintenance repair.

Please photocopy the preventative maintenance checklist on page 3-3 and use this table as a checklist when inspecting the machine for service.

MidWestTech | Snorkel SL26RTE, SL30RTE Self-Leveling Work Platform Repair Parts... Order the manual at mid-west-tech.com >