An Oshkosh Corporation Company

Service and Maintenance Manual

Models
1932RS/6RS
3248RS/10RS

3121273

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CE

ANSI

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SECTION 1. SPECIFICATIONS

1.1 SPECIFICATIONS

Table 1-1. Operating Specifications

DESCRIPTION		1932RS/6RS	3248RS/10RS
PLATFORM			
Maximum Platform Height		19 ft. (5.8 m)	32 ft. (9.75 m)
DRIVING			
Maximum Drive Speed	Stowed:	2.5 mph (4 kph)	
	Elevated:	0.3 mph (0.5 kph)	
Maximum Stowed Travel Grade (Gradeability)		25% (14°)	
Inside Turning Radius		23.6 in. (60 cm)	47.9 in. (121.7 cm)
Outside Turning Radius		87.9 in. (221.9 cm)	125.3 in. (318.1 cm)
CHASSIS			
Approximate Gross Machine Weight ANSI/CSA:		3,000 lb. (1,360 kg)	5,070 lb. (2,300 kg)
CE:		3,450 lb. (1,565 kg)	6,050 lb. (2,744 kg)
Maximum Tire Load (per wheel) ANSI/CSA:		1,365 lb. (620 kg)	1,835 lb. (832 kg)
CE:			2,070 lb. (940 kg)
Ground Bearing Pressure ANSI/CSA:		130 PSI (9.18 kg/cm^2)	81 PSI (5.69 kg/cm^2)
CE:			108 PSI (7.6 kg/cm^2)
Ground Clearance		3.1 in. (7.8 cm)	4.1 in. (10.3 cm)

Platform Capacities

Table 1-2. Platform Capacities

SPECIFICATION	MACHINE MODEL	MAXIMUM PLATFORM CAPACITY (1)	MAXIMUM CAPACITY ALLOWED ON PLATFORM EXTENSION	MAXIMUM PERSONS ALLOWED IN PLATFORM	MAX. SIDE FORCE (Platform Fully Extended @ Max. Capacity)	MAXIMUM OPERATING WIND SPEED
ANSI/CSA/JPN	1932	500 Lb. (227 Kg)	250 Lb. (113 Kg)	2	100 Lb. (445 N)	28 mph
	3248	705 Lb. (320 Kg)	250 Lb. (113 Kg)	2	100 Lb. (445 N)	28 mph
ANSI EXPORT	1932	480 Lb. (218 Kg)	240 Lb. (109 Kg)	2	100 Lb. (445 N)	28 mph
	3248	683 Lb. (310 Kg)	236 Lb. (107 Kg)	2	100 Lb. (445 N)	28 mph
CE	6RS	230 Kg	120 Kg	Indoor - 2 Persons + 70 Kg	400 N	0 m/s
				Outdoor - 1 Person + 150 Kg	200 N	12.5 m/s
	10RS	320 Kg	120 Kg	Indoor - 2 Persons + 160 Kg	400 N	0 m/s
				Outdoor - 1 Person + 240 Kg	200 N	12.5 m/s

NOTE: *(1) Maximum Platform Capacity includes platform and platform extension.*

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Excessive Battery Watering Requirements or Strong Sulphur (Rotten Egg) Smell

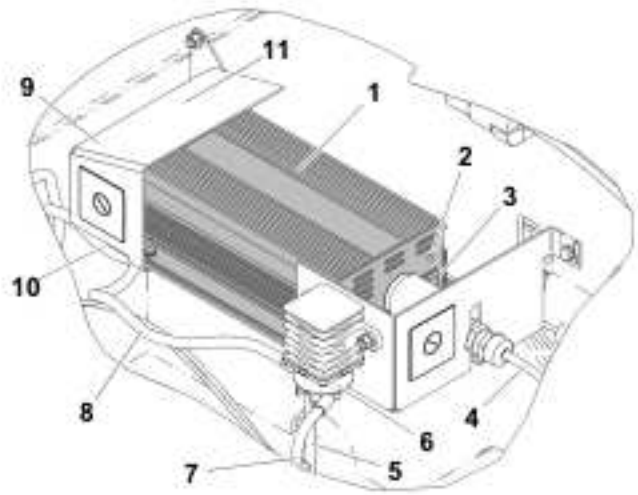
These symptoms indicate over-charging or high battery temperature. These symptoms are unlikely to be caused by too high a charge current since the maximum charge current of the charger will be small compared to even a moderately sized battery pack. The most likely cause for this problem is incorrect charge algorithm setting and/or high ambient temperatures. For correct charge algorithm setting, refer www.jlg.com for below supplement manual

- TROUBLESHOOTING GUIDE - PN 3128829

3.5 DC TO AC INVERTER (IF EQUIPPED)

Inverter Location on Machine

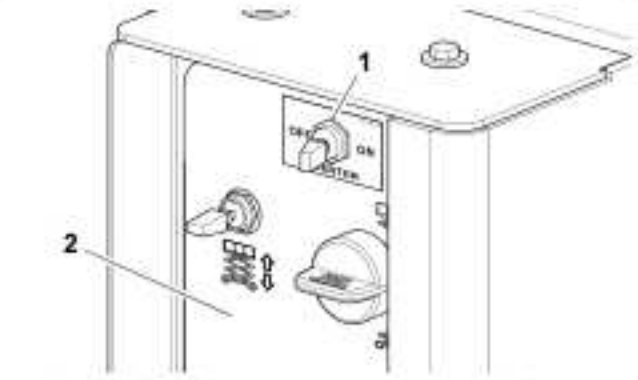
The inverter is located to the right rear of the machine in the battery side compartment on all RS Scissor models.



1. DC to AC Inverter
2. Overload LED Indicator
3. Inverter Internal ON/OFF Switch - Set to ON from factory
4. Inverter VAC Output Cord
5. To Inverter ON/OFF Switch at Ground Control Panel
6. Inverter Power Relay
7. From VDC Battery POS (+)
8. To VDC Inverter POS (+) Input
9. External DC 25A Replaceable Fuse(s)*
10. From VDC Battery NEG (–)*
11. Inverter Cooling Fan*

Figure 3-7. DC to AC Inverter Components

** Items located under shield.*



1. Inverter On/Off Switch
2. Ground Control Panel

Figure 3-8. Inverter On/Off Switch Location

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7.7 ELECTRICAL SCHEMATICS AND LAYOUTS



Figure 7-18. Electrical Schematic - (Global) - Sheet 1 of 7

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Values for Magni Coating Fasteners (Rel 4150701)																							
				SAE GRADE 5 BOLTS & GRADE 2 NUTS									SAE GRADE 8 (HEX HD) BOLTS & GRADE 8 NUTS*										
Size	TPI	Bolt Dia	Tensile Stress Area	Clamp Load	Torque (Dry) K=0.17		Torque (Loctite® 242™ or 271™ OR Vibra-TITE™ 111 or 140) K=0.16		Torque (Loctite® 262™ or Vibra-TITE™ 131) K=0.15		Clamp Load	Torque (Dry or Loctite® 263)		Torque (Loctite® 242™ or 271™ OR Vibra-TITE™ 111 or 140) K=.16		Torque (Loctite® 262™ or Vibra-TITE™ 131) K=0.15							
		In	Sq In	LB	IN-LB	[N-m]	IN-LB	[N-m]	IN-LB	[N-m]	LB	IN-LB	[N-m]	IN-LB	[N-m]	IN-LB	[N-m]						
#4	40	0.1120	0.00604	360	7	0.8																	
	48	0.1120	0.00661	420	8	0.9																	
#5	40	0.1380	0.00928	560	14	1.5																	
	40	0.1380	0.01015	610	14	1.6																	
#8	32	0.1640	0.01420	900	25	2.8																	
	36	0.1640	0.01474	940	26	2.9					1320	37	4										
10	24	0.1900	0.01750	1135	36	4.1					1580	51	6										
	32	0.1900	0.02009	1285	42	4.7					1850	58	7										
1/4	20	0.2500	0.0318	2020	88	9.7	80	9			2880	122	14	114	13								
	28	0.2500	0.0364	2325	99	11.1	95	11			3380	139	16	131	15								
		In	Sq In	LB	FT-LB	[N-m]	FT-LB	[N-m]	FT-LB	[N-m]	LB	FT-LB	[N-m]	FT-LB	[N-m]	FT-LB	[N-m]						
5/16	18	0.3125	0.0524	3340	15	20	14	19	15	20	4720	20	25	20	25	20	25						
	24	0.3125	0.0580	3700	17	23	15	21	15	23	5220	22	30	20	28	20	28						
3/8	16	0.3750	0.078	4945	25	35	25	34	25	34	7000	35	45	30	40	30	40						
	24	0.3750	0.0878	5600	30	40	28	38	25	34	7900	40	55	40	55	35	50						
7/16	14	0.4375	0.1063	6800	40	55	40	54	35	48	9550	60	80	55	75	50	70						
	20	0.4375	0.1187	7595	45	60	44	60	40	54	10705	65	90	60	80	60	80						
1/2	13	0.5000	0.1419	9035	65	90	60	82	55	75	12750	90	120	85	115	80	110						
	20	0.5000	0.1599	10700	75	100	71	97	65	88	14400	100	135	95	130	90	120						
9/16	12	0.5625	0.1820	11600	90	120	87	118	80	109	16400	130	175	125	170	115	155						
	18	0.5625	0.2030	12950	100	135	97	132	90	122	18250	145	195	135	185	130	175						
5/8	11	0.6250	0.2260	14400	130	175	123	163	115	156	20375	185	245	175	230	165	220						
	18	0.6250	0.2560	16300	145	195	138	185	125	170	23000	205	280	195	260	185	250						
3/4	10	0.7500	0.3340	21300	225	305	213	290	200	272	30100	320	435	305	410	290	390						
	16	0.7500	0.3730	23800	255	345	238	324	225	306	33600	355	485	335	455	315	430						
7/8	9	0.8750	0.4620	29400	365	495	343	466	320	436	41600	515	700	485	660	455	620						
	14	0.8750	0.5090	32400	400	545	378	514	355	483	45800	575	775	535	730	500	680						
1	8	1.0000	0.6090	38600	545	740	515	700	480	653	51500	735	995	685	930	645	875						
	12	1.0000	0.6630	42200	600	815	563	765	530	721	59700	845	1150	795	1080	745	1015						
1 1/8	7	1.1250	0.7630	48200	675	920	635	863	595	809	66700	1080	1490	1030	1400	965	1310						
	12	1.1250	0.8560	47500	765	1035	713	969	670	911	77000	1225	1665	1155	1570	1085	1475						
1 1/4	7	1.2500	0.9440	53800	955	1300	897	1219	840	1142	87300	1545	2100	1455	1980	1365	1855						
	12	1.2500	1.0730	61000	1055	1435	991	1351	930	1265	99000	1710	2325	1610	2190	1510	2055						
1 3/8	6	1.3750	1.1550	64100	1255	1700	1175	1598	1105	1496	104000	2025	2755	1905	2595	1785	2430						
	12	1.3750	1.3150	73000	1425	1930	1338	1820	1255	1707	118100	2300	3130	2165	2945	2030	2760						
1 1/2	6	1.5000	1.4050	78000	1665	2260	1560	2122	1465	1992	126500	2690	3660	2530	3445	2370	3225						
	12	1.5000	1.5800	87700	1845	2505	1734	2359	1645	2237	142200	3030	4105	2845	3875	2665	3625						

NOTES: 1. THESE TORQUE VALUES DO NOT APPLY TO CADMIUM PLATED FASTENERS
2. ALL TORQUE VALUES ARE STATIC TORQUE MEASURED PER STANDARD AUDIT METHODS TOLERANCE = ±10%
3. * ASSEMBLY USES HARDENED WASHER

No. 3900059 REV. K

Figure 1-2. Torque Chart (SAE Fasteners - Sheet 2 of 5)

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Voltage Measurement

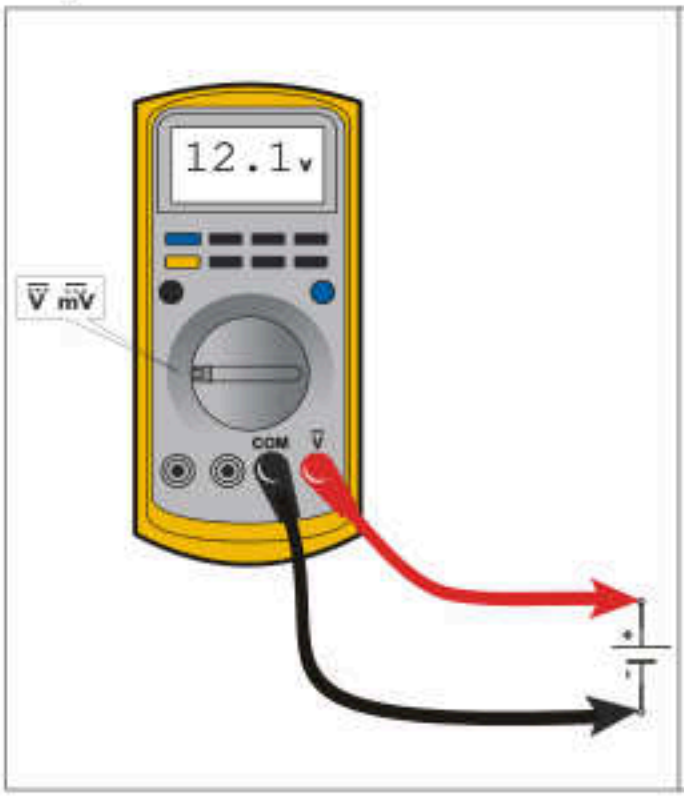


Figure 7-1. Voltage Measurement (DC)

- If meter is not auto ranging, set it to the correct range (See multimeter's operation manual)
- Use firm contact with meter leads

Resistance Measurement

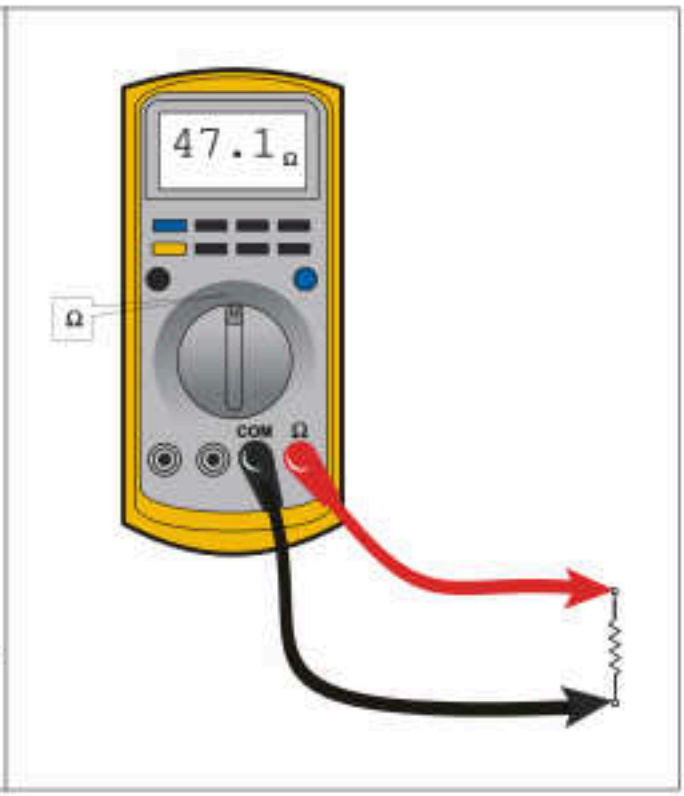


Figure 7-2. Resistance Measurement

- First test meter and leads by touching leads together. Resistance should read a short circuit (very low resistance)
- Circuit power must be turned OFF before testing resistance
- Disconnect component from circuit before testing
- If meter is not auto ranging, set it to the correct range (See multimeter's operation manual)
- Use firm contact with meter leads

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