An Oshkosh Corporation Company

Service and Maintenance Manual

Models

400S
460SJ

*S/N 0300203771**
S/N 1300007289
& S/N E300000100

to Present

**** See inside front cover for exceptions***

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Values for Zinc Yellow Chromate Fasteners (Ref 4150707)

Size	TPI	Nom Dia	Tensile Stress Area	Clamp Load	Torque (Dry)		Torque Lubricated		Torque (Loctite® 242™ OR Vibra-TITE™ 111 or 140)		Torque (Loctite® 262™ or Vibra-TITE™ 131)		Clamp Load	Torque (Dry or Loctite® 262™) K= 0.20		Torque (Loctite® 242™ or 271™ OR Vibra-TITE™ 111 or K=.18		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]	FT-LB	[N.m]	LB	IN-LB	[N.m]	IN-LB	[N.m]	IN-LB	[N.m]
4	48	0.1120	0.00604	380	4	0.5	6	0.7											
	44	0.1130	0.00661	420	4	0.5	7	0.8											
5	32	0.1380	0.00909	580	16	1.8	12	1.4											
	40	0.1380	0.01015	670	16	1.8	13	1.5											
6	32	0.1640	0.01400	940	30	3.4	22	2.5											
	36	0.1640	0.01474	940	31	3.5	23	2.6					1320	45	5				
10	24	0.1900	0.01750	1120	43	4.8	32	3.5					1560	60	7				
	32	0.1900	0.02000	1280	49	5.5	36	4					1660	66	8				
1/4	20	0.2500	0.0318	2020	96	10.8	75	9	105	12			2960	142	16	129	15		
	28	0.2500	0.0364	2320	120	13.5	86	10	135	15			3380	164	19	148	17		
		In	Sq In	LB	FT-LB	[N.m]	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	17	23	13	18	19	26	16	22	4720	25	35	20	25	20	25
	24	0.3125	0.0581	3700	19	26	14	19	21	29	17	23	5220	28	38	22	28	20	25
3/8	16	0.3750	0.0775	4940	30	41	23	31	35	48	26	36	7000	45	60	40	55	35	50
	24	0.3750	0.0878	5600	35	47	25	34	40	54	32	43	7900	50	70	45	60	35	50
7/16	14	0.4375	0.1063	6800	50	69	35	47	55	75	45	61	9550	70	95	65	85	50	70
	20	0.4375	0.1187	7550	55	75	40	54	60	82	50	68	10700	80	110	70	95	60	80
1/2	13	0.5000	0.1419	9050	75	102	55	75	85	116	68	92	12755	105	145	85	130	80	110
	20	0.5000	0.1599	10150	85	116	65	88	100	135	80	108	14400	125	165	110	150	90	120
9/16	12	0.5625	0.1820	11600	110	149	80	108	120	163	95	128	16400	155	210	145	190	115	155
	18	0.5625	0.2030	12950	120	163	90	122	135	184	105	142	18250	175	230	155	210	130	175
5/8	11	0.6250	0.2260	14400	150	203	110	149	165	224	130	177	20350	215	295	195	260	160	220
	18	0.6250	0.2560	16300	170	230	130	176	190	258	150	203	23000	245	335	215	290	180	245
3/4	10	0.7500	0.3340	21300	260	353	200	271	285	388	240	325	30100	375	510	345	465	280	380
	16	0.7500	0.3730	23800	295	400	220	298	325	440	260	353	33600	420	570	385	520	315	430
7/8	9	0.8750	0.4620	29400	430	583	320	434	475	646	380	515	41600	605	820	555	745	455	620
	14	0.8750	0.5090	32400	475	637	350	475	520	707	420	570	45800	670	910	600	815	500	680
1	8	1.0000	0.6090	38800	640	866	480	651	715	976	570	775	54900	890	1170	775	1045	645	875
	12	1.0000	0.6913	44100	720	976	540	732	800	1085	640	868	62300	995	1355	885	1215	745	1015
1 1/8	7	1.1250	0.7633	48700	850	1083	600	813	840	1142	714	968	68700	1090	1795	1160	1580	965	1310
	12	1.1250	0.8466	54000	895	1193	660	895	925	1258	803	1067	77200	1445	1965	1300	1775	1085	1475
1 1/4	7	1.2500	0.9691	61800	1120	1519	840	1139	1175	1594	1006	1364	87300	1815	2470	1630	2225	1365	1860
	12	1.2500	1.0730	68400	1240	1681	920	1247	1300	1763	1113	1516	96600	2015	2740	1810	2460	1510	2055
1 3/8	6	1.3750	1.1550	84100	1460	1979	1100	1491	1535	2074	1322	1792	104000	2285	3045	2145	2915	1785	2430
	12	1.3750	1.2150	93000	1680	2278	1260	1709	1760	2386	1504	2040	118100	2705	3680	2535	3440	2110	2860
1 1/2	6	1.5000	1.4053	78800	1940	2630	1460	1979	2025	2754	1755	2379	126000	3165	4305	3045	4125	2535	3435
	12	1.5000	1.5693	87700	2200	2983	1645	2224	2300	3128	1974	2676	142000	3595	4875	3500	4745	2870	3895

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. 5000659 REV. K

REFERENCE JLG THREAD LOCKING COMPOUND

JLG P/N	Loctite® P/N	ND Industries P/N	Description
0100011	242™	Vibra-TITE™ 121	Medium Strength (Blue)
0100019	271™	Vibra-TITE™ 140	High Strength (Red)
0100071	262™	Vibra-TITE™ 131	Medium - High Strength (Red)

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

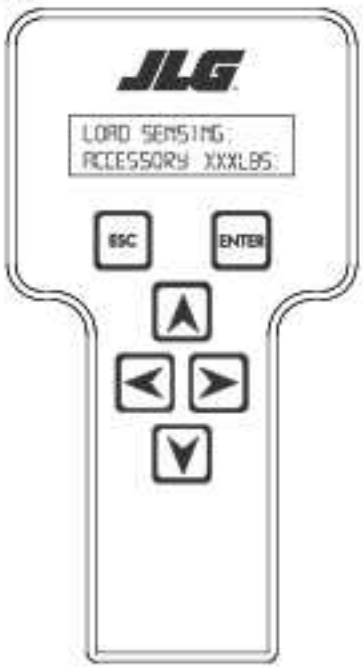
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Pressing the ESC key [ESC] after starting calibration and before calibration is complete will display the CAL FAILED message. This will not disturb the prior calibration information.

7. Press ENTER [ENTER]. The analyzer screen will read:



8. If the platform is empty, press ENTER [ENTER]. The screen will read:



NOTE: *Accessory weight will reset to 0 lbs. each time the machine is re-calibrated and will need to be re-entered.*

NOTE: *The Accessory weight will be temporarily stored in the Control System until calibration has been completed successfully.*

Refer to Table 6-6, Accessory Weights. Use the up and down analyzer keys to enter the accessory weight(s) (in lbs). When all the accessory weights are entered, press ENTER [ENTER]. The screen will read:



Table 6-6. Accessory Weights

Accessory	Weight
SkyWelder (stick welder)	70 lb (32 kg)
SkyWelder Prep	Prep only = 15 lb (7 kg) Full install = 70 lb (32 kg)
SkyCutter (plasma cutter)	70 lb (32 kg)
SkiCutter / SkyWelder Combo	140 lb (64 kg)
Fire Extinguisher	45 lb (20 kg)
Overhead Soft Touch	80 lb (36 kg)
Work Surface	20 lb (9 kg)

NOTE: *Not all Accessories are available on every JLG model. Some Accessory combinations are prohibited due to excessive weight and/or load restriction. If any installed JLG Accessories are labeled with weight decals but are not listed in the table above, include their weight when entering the ACC WEIGHT value.*

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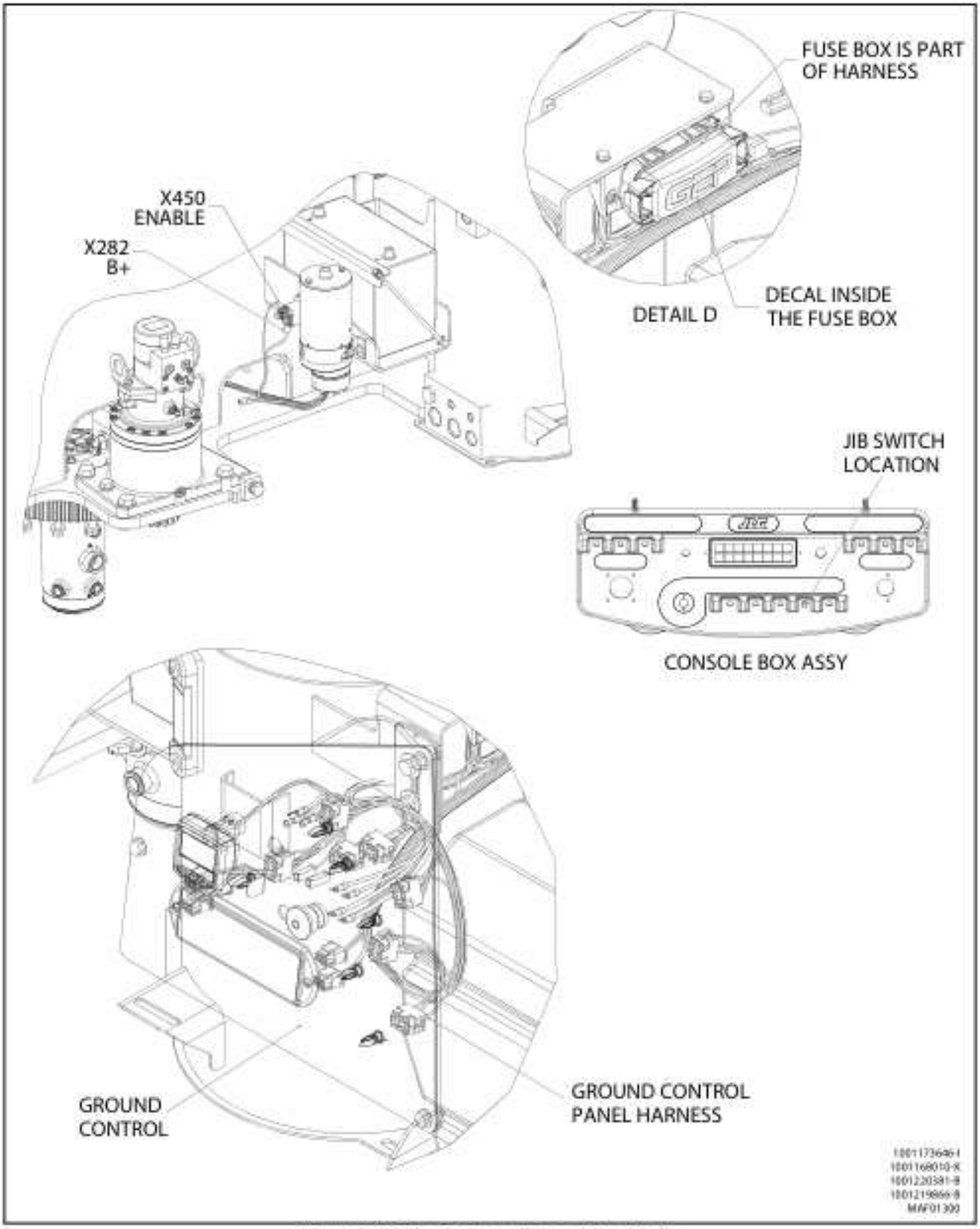
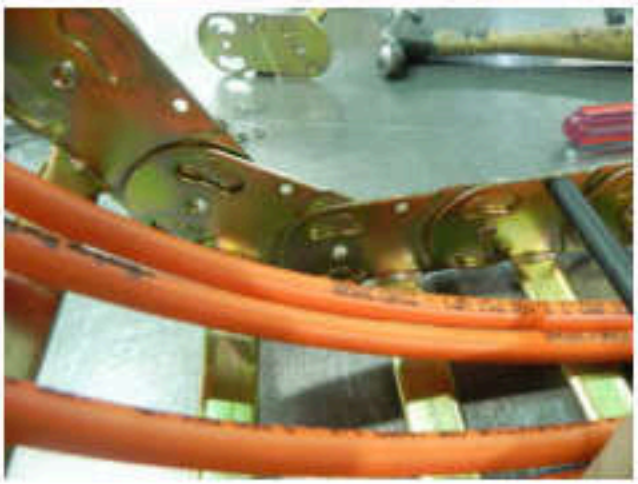


Figure 7-26. Electrical Installation - Sheet 2 of 5

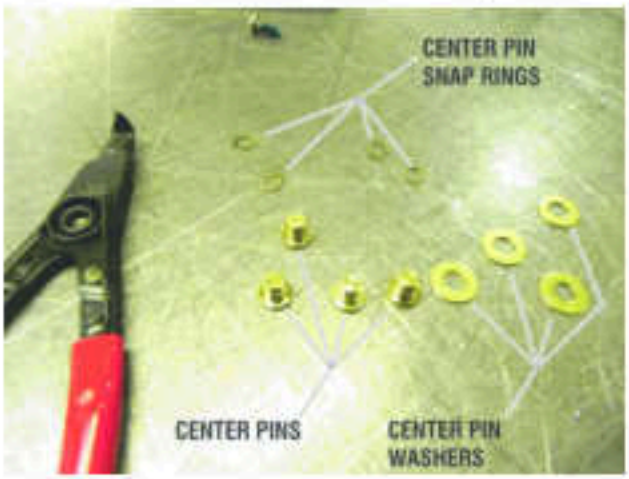
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4. Pull moving end over track so new connection is positioned in curve of powertrack. Round half-shears will rotate into cut-outs.





5. Parts shown below connect new link to powertrack.



6. Push pin through center hole then slide washer on pin.





7. Install snap ring in groove on pin. Repeat pin installation steps for all center holes with rivets removed.



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X513B					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	To
1	BLK	000-40-43 CF	16 AWG	GXL	S171 (2)
2					
3					
4					
5					
6					

X429					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	To
A	BLK	000-40-11 NEGATIVE	18 AWG	GXL	MS647 (4)
B	RED	4-65 PWR	18 AWG	GXL	S18 (2)
C	YEL	CAN2 HI	20 AWG	J1939 CABLE	MS325 (7)
D	GRN	CAN2 LO	20 AWG	J1939 CABLE	MS325 (9)
E					
F					
G					
H	WHT	4-66 IGN	18 AWG	GXL	FC631 (40)
J					

SW118-2B					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	To
2B	RED	4-47 SW-118-2B	10 AWG	GXL	S123 (1)

SW118-1A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	To
1A	RED	4-37 SW118-1A	12 AWG	GXL	FC631 (9)

SW118-2A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	To
2A	RED	4-175 SW118-2A	10 AWG	GXL	S123 (1)
2A	RED	4-50	18 AWG	GXL	FC631 (35)

SW118-1B					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	To
1B	RED	4-46	12 AWG	GXL	SW104-B (1)

SW531-1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	To
1	WHT	4-163 MS50	18 AWG	GXL	63119-1

SW531-2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	To
1	BLK	000-40-162 GND	18 AWG	GXL	4460259

SW104-3					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	To
1	RED	4-51	12 AWG	GXL	FC631 (38)
1	WHT	4-51 PLTFM ENABLE	18 AWG	GXL	IP103 (1)

SW104-1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	To
1	RED	4-169 MODE SEL	12 AWG	GXL	FC631 (42)
1	RED	Apr-40	12 AWG	GXL	FC631 (29)

GD414					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	To
1	BLK	000-40-51 GND	18 AWG	GXL	CD69-17 (25)
2	RED	4-97 PWR	18 AWG	GXL	S15 (2)
3	YEL	CAN2 HI	20 AWG	J1939 CABLE	MS325 (8)
4	GRN	CAN2 LO	20 AWG	J1939 CABLE	MS325 (10)
5					
6					
NC					

Figure 7-55. Turntable Harness - Sheet 9 of 14

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