An Oshkosh Corporation Company

Service & Maintenance Manual

Model
260MRT

3121108

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ANSI

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SECTION 1. SPECIFICATIONS

1.1 OPERATING SPECIFICATIONS

Table 1-1. Operating Specifications

Machine Weight	7330 lb (3324.8 kg)
Machine Height:	
Fully Elevated	26 ft (8 m)
Stowed	7.5 ft (2.3 m)
Machine Width	5.9 ft (1.8 m)
Machine Length	8.9 ft (2.7 m)
Platform Railing Height	43.5 in. (1.1 m)
Platform Dimensions	8.5 x 5.4 ft (2.59 x 1.65 m)
Platform Capacity	1250 lb (570 kg)
Platform Extension Capacity	300 lb (140 kg)
Max Travel Speed	2.8 mph (4.5 kmh)
Max Travel Grade	35%
Max Slope:	
Side to Side	3°
Fore & Aft	5°
Turning Radius:	
Inside	6.9 ft (2.1 m)
Outside	14.4 ft (4.4 m)
Lift Speed: (no load)	
Dual Fuel:	
Up	25-29 sec
Down	21-27 sec
Diesel:	
Up	32 - 34 sec
Down	21 - 27 sec
Max Tire Load	2600 lb (1180 kg)
Max Ground Bearing Pressure	33 psi (2.3 kg/cm^2)
Max Hydraulic system Pressure	3000 psi (20.68 Mpa)
Electrical System Voltage	12 Volt
Wheelbase	78 in. (2 m)
Ground Clearance	8 in. (20.3 cm)
Max Windspeed	28 mph (12.5 m/s)
Max Horizontal Manual Side Force	90 lbf (400 N)
Number of Persons	2

1.2 CAPACITIES

Table 1-2. Capacities

Fuel Tank	7.2 gal (27.2 L)
Hydraulic Oil Tank	15 gal (56.8 L)
Hydraulic System (including tank)	18 gal (68.1 L)
Engine Crankcase:	
Gasoline Engine	3.4 qts (3.25 L)
Diesel Engine	4.2 qts (4 L)
Engine Coolant:	
Gasoline Engine	1.25 gal (4.7 L)
Diesel Engine	1.5 gal (5.7 L)

1.3 COMPONENT DATA

Engine

Table 1-3. WG750-B Kubota Gasoline/LP

Type	3 cylinder, liquid-cooled
Power	24.5 horsepower @ 3600 RPM
Idle	1500 RPM
High Engine	3600 RPM
Alternator	40 Amp
Fuel Consumption:	
Low RPM	1.3 gph (4.9 Lph)
High RPM	2.4 gph (9 Lph)

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3.6 TROUBLESHOOTING

General

This section contains troubleshooting information to be used for locating and correcting most of the operating problems which may develop in the aerial platform. If a problem should develop which is not presented in this section or which is not corrected by listed corrective actions, technically qualified guidance should be obtained before proceeding with any maintenance.

Troubleshooting Information

The troubleshooting procedures applicable to the aerial platform are listed and defined in following troubleshooting tables.

Each malfunction within an individual group or system is followed by a listing of probable causes which will enable determination of the applicable remedial action. The probable causes and the remedial action should, where possible, be checked in the order listed in the tables.

It should be noted that there is no substitute for a thorough knowledge of the equipment and related systems.

It should be recognized that the majority of the problems arising in the machine will be centered in the hydraulic and electrical systems. For this reason, every effort has been made to ensure that all likely problems in these areas are given the fullest possible treatment. In the remaining machine groups, only those problems which are symptomatic of greater problems which have more than one probable cause and remedy are included. This means that problems for which the probable cause and remedy may be immediately obvious are not listed in this section.

The first rule for troubleshooting any circuit that is hydraulically operated and electrically controlled is to determine if the circuit is lacking hydraulic oil and electrical control power. This can be ascertained by overriding the bypass valve (mechanically or electrically) so that oil is available to the function valve, then overriding the function valve mechanically. If the function performs satisfactorily, the problem exists with the control circuit.

Hydraulic Circuit Checks

The first reference for improper function of a hydraulic system, where the cause is not immediately apparent, should be the Troubleshooting Chart. The best place to begin the problem analysis is at the power source (pump). Once it is determined that the pump is serviceable, then a systematic check of the circuit components, beginning with the control, would follow. For aid in troubleshooting, refer to the Illustrated Parts Manual for hydraulic diagrams of the various circuits.

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Table 3-4. Electrical System Troubleshooting

TROUBLE	PROBABLE CAUSE	REMEDY
No response to a function control switch (cont.)		
	No voltage present at applicable control valve coil.	Check applicable wire for proper connection at terminal strip, valve harness plug pin, valve harness receptacle pin and engine start relay. Using suitable test meter, perform continuity test on wire. Repair or replace wire or harness as necessary.
	No voltage supplied from terminal strip to engine start relay.	Check applicable wire for proper connection at terminal strip, valve harness plug pin, valve harness receptacle pin and engine start relay. Using suitable test meter, perform continuity test on wire. Repair or replace wire or harness as necessary.
	Defective engine start relay.	Replace engine start relay.
	No voltage supplied to engine from start relay.	Check battery cable from relay to engine for proper connection or damage. Repair or replace cable as necessary.
	No voltage present at applicable control valve coil.	Check applicable wire for proper connection at terminal strip, valve harness plug pin, valve harness receptacle pin and valve coil. Using suitable test meter, perform continuity check on wires. Repair or replace harness as necessary.
	NO TERMINAL STRIPS!!!!!!! No voltage supplied from terminal strip to electric motor start relay.	Check applicable wire for proper connection at terminal strip, valve harness plug pin, valve harness receptacle pin and electric motor start relay. Using suitable test meter, perform continuity test on wire. Repair or replace wire as necessary.
	Defective electric motor start relay.	Replace electric motor start relay.
	No voltage supplied to motor from start relay.	Check battery cable from relay to motor for proper connection or damage. Repair or replace wire as necessary.
	Defective motor/pump assembly.	Replace motor/pump assembly.

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Values for Magni Coating Fasteners (Ref 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) K= 0.17		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		383	7	0.8															
	48	0.1120	0.00661		420	8	0.9															
#6	32	0.1380	0.00909		578	14	1.5															
	40	0.1380	0.01015		610	14	1.6															
#8	32	0.1640	0.01400		903	25	2.8															
	36	0.1640	0.01474		945	26	2.9						1320	37	4							
#10	24	0.1900	0.01750		1120	36	4.1						1560	51	6							
	32	0.1900	0.02000		1285	42	4.7						1800	64	7							
1/4	20	0.2500	0.0318		2035	86	9.7	80	9				2690	122	14	114	13					
	28	0.2500	0.0364		2320	99	11.1	95	11				3280	139	16	131	15					
		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]	FT-LB	[N.m]
5/16	18	0.3125	0.0524		3340	15	20	14	19	15	20	15	20	4720	20	25	20	25	20	25	20	25
	24	0.3125	0.0580		3700	15	20	15	21	15	20	15	20	5220	25	35	25	35	25	35	25	35
3/8	16	0.3750	0.0775		4940	25	35	25	34	25	34	25	34	7000	35	50	35	50	35	50	35	50
	24	0.3750	0.0878		5600	30	40	28	38	25	34	25	34	7900	40	55	40	55	35	50	35	50
7/16	14	0.4375	0.1063		6800	40	55	40	54	35	48	35	48	9550	60	80	55	75	50	70	50	70
	20	0.4375	0.1187		7550	45	60	44	60	40	54	40	54	10700	65	90	60	85	60	80	60	80
1/2	13	0.5000	0.1419		9040	65	90	60	83	55	75	55	75	12750	90	120	85	115	80	110	80	110
	20	0.5000	0.1599		10700	75	100	71	97	65	88	65	88	14400	100	135	95	130	90	120	90	120
9/16	12	0.5625	0.1820		11600	80	120	87	118	80	109	80	109	16400	130	175	125	170	115	155	115	155
	18	0.5625	0.2030		12940	105	145	97	132	90	122	90	122	18250	145	195	135	185	130	175	130	175
5/8	11	0.6250	0.2260		14400	130	175	120	163	115	156	115	156	20350	160	215	170	230	160	220	160	220
	18	0.6250	0.2560		16300	145	195	135	185	125	170	125	170	23000	205	280	190	260	180	245	180	245
3/4	10	0.7500	0.3340		21300	225	305	215	290	200	272	200	272	30100	320	435	300	410	280	380	280	380
	16	0.7500	0.3730		23800	255	345	235	324	225	306	225	306	33600	355	485	335	455	315	430	315	430
7/8	9	0.8750	0.4603		29400	365	495	345	466	320	435	320	435	41500	515	700	485	660	455	620	455	620
	14	0.8750	0.5095		32400	400	545	375	514	355	483	355	483	45800	570	775	535	730	500	680	500	680
1	8	1.0000	0.6090		38900	545	740	515	700	480	653	480	653	54900	730	995	685	930	645	875	645	875
	12	1.0000	0.6630		42300	600	815	560	765	530	721	530	721	59700	845	1150	795	1080	745	1015	745	1015
1 1/8	7	1.1250	0.7630		48700	675	930	635	863	595	809	595	809	68700	1095	1490	1030	1400	965	1310	965	1310
	12	1.1250	0.8560		54600	765	1025	715	969	670	911	670	911	77000	1225	1665	1155	1570	1085	1475	1085	1475
1 1/4	7	1.2500	0.9690		61900	955	1300	867	1176	840	1142	840	1142	87200	1545	2100	1455	1980	1365	1855	1365	1855
	12	1.2500	1.0730		68500	1055	1435	993	1351	950	1295	950	1295	96600	1715	2325	1615	2190	1510	2055	1510	2055
1 3/8	6	1.3750	1.1550		64700	1250	1700	1175	1596	1100	1496	1100	1496	103000	2035	2755	1925	2595	1785	2430	1785	2430
	12	1.3750	1.3150		73000	1420	1930	1339	1820	1256	1707	1256	1707	116100	2300	3130	2165	2945	2030	2760	2030	2760
1 1/2	6	1.5000	1.4050		78000	1660	2260	1560	2122	1465	1992	1465	1992	125900	2690	3660	2530	3440	2370	3225	2370	3225
	12	1.5000	1.5800		87700	1865	2535	1754	2385	1645	2237	1645	2237	142000	3020	4105	2845	3870	2665	3625	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. 5000059 REV. K

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

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Voltage Measurement

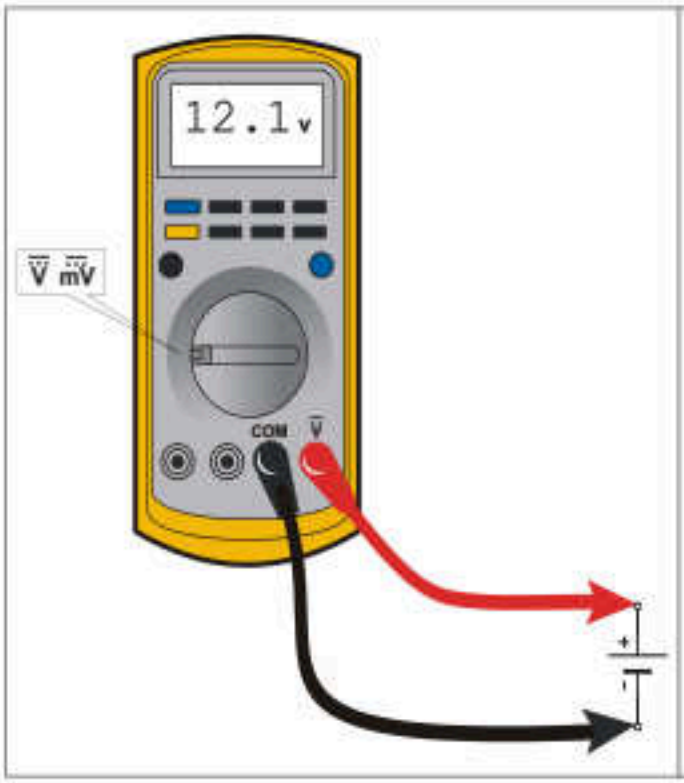


Figure 3-1. Voltage Measurement (DC)

- 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

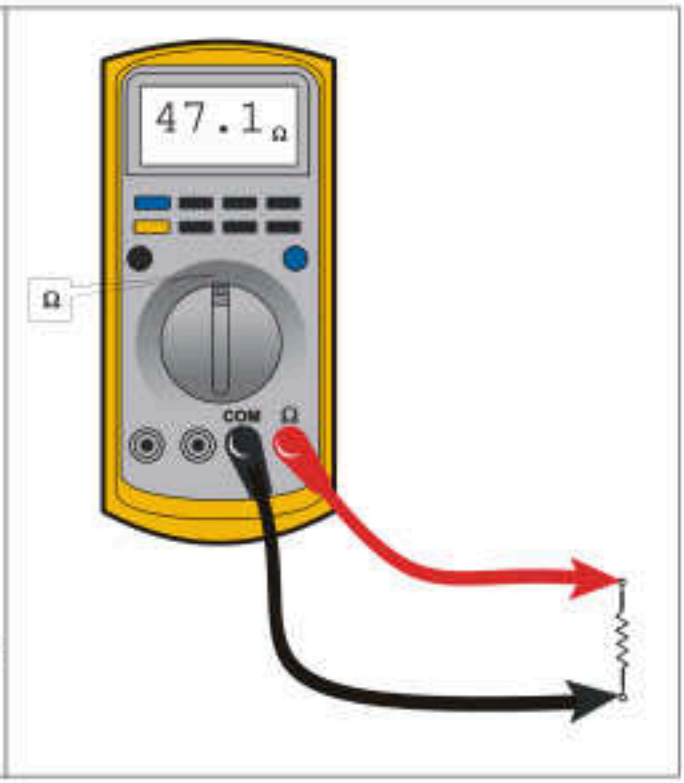


Figure 3-2. Resistance Measurement

- 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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