An Oshkosh Corporation Company

Service & Maintenance Manual

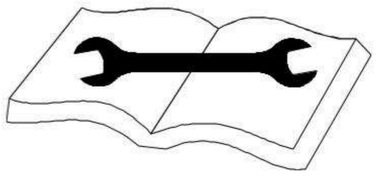
Model
260MRT

PVC 1910

31215866

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ANSI



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SECTION 1. SPECIFICATIONS

1.1 OPERATING SPECIFICATIONS

Gross Machine Weight (Approximate)	8160 lb (3701 kg)
Machine Height:	
Fully Elevated	26 ft (8 m)
Stowed	7.8 ft (2.4 m)
Platform Height (Platform Stowed)	
Standard	4 ft (1.28 m)
Long Leveling Jacks Option (Australia Only)	4.2 ft (1.31 m)
Platform Railing Height	45.7 in. (1.1 m)
Platform Dimensions (Extension Retracted)	5.5 x 8.5 ft (1.6 x 2.6 m)
Platform Dimensions (Extension Extended)	5.5 ft x 12.5 ft (1.6 x 3.8 m)
Platform Capacity	
ANSI	1250 lb (568 kg)
CE/AUS	1256 lb (570 kg)
Platform Extension Capacity	
ANSI	300 lb (136 kg)
CE/AUS	308 lb (140 kg)
Max Travel Speed	2.8 mph (4.5 kmh)
Max Stowed Travel Grade:	
Gradeability	35% (19°)
Sideslope	8.75% (5°)
Max Slope:	
Side to Side	3°
Fore & Aft	5°
Long Leveling Jacks Option (AUS Only)	6°
Turning Radius:	
Inside	6.9 ft (2.13 m)
Outside	12.69 ft (3.87 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	3300 psi (234 bar)
Electrical System Voltage	12V
Wheelbase	78 in. (2 m)
Maximum Drive Speed	3.5 mph (5.6 kmh)
Elevation Switch Height (Drive speed slow)	90 - 96 in (2.3 - 2.4 m)
Ground Clearance	8 in. (20.3 cm)
Max Windspeed	28 mph (12.5 m/s)
Max Horizontal Manual Side Force	
ANSI	187 lb (832 N)
CE/AUS	90 lb (400 N)
Number of Persons	2

1.2 CAPACITIES

Fuel Tank	7.2 gal (27.2 L)
Hydraulic Oil Tank	15 gal (56.8 L)
Engine Crankcase:	
Gasoline Engine	3.4 qts (3.25 L)
Diesel Engine	5.39 qts (5.1 L)
Engine Coolant:	
Gasoline Engine	0.61 gal (2.3 L)
Diesel Engine	1.5 gal (5.7 L)

1.3 COMPONENT DATA

Engine

Table 1-1. WG752-GL-E3 Kubota Gasoline/LP

Emissions	CARB, EPA Phase 3
Type	Gasoline - 87 Octane minimum -Ethanol/Gas Mix - 10% maximum -Methanol/Gas Mix - 5% maximum -LP (Liquid Petroleum)
Number of Cylinders	3
Max Output Power	
Gas	24.8 HP (18.5 kW) @ 3600 rpm
LP	23.8 HP (17.7 kW) @ 3600 rpm
Low RPM Set	1500 rpm
High RPM Set	3600 rpm
Max Output Torque	
Gas	40.5 ft.lb. (54.9 Nm) @ 2400 rpm
LP	38.3 ft.lb. (52.0 Nm) @ 2400 rpm
Max Output Power	
Gas	18.5 Hp (24.8 kW) @ 3600 rpm
LP	17.7 Hp (23.8 kW) @ 3600 rpm
Engine Oil Capacity	0.86 gal (3.25 L)
Engine Coolant Capacity	0.61 gal (2.3 L)
Starter Rating	12V, 0.7 kW
Alternator	12V, 40 Amp
Fuel Consumption:	
Low RPM	1.3 gph (4.9 Lph)
High RPM	2.4 gph (9 Lph)

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Table 3-1. Elevation System Troubleshooting

TROUBLE	PROBABLE CAUSE	REMEDY
Platform Elevation System		
No Response to Lift Control		
	Lift not performed within three seconds after lift function switch is selected.	Reselect lift function switch, then activate joystick within three seconds.
	Enable circuit not functioning properly.	Replace enable circuit card.
	Lift control switch inoperative.	Repair or replace control switch.
	Hydraulic system oil low.	Replenish oil as necessary.
	Restricted or broken supply line on valve bank or pump.	Clean, repair or replace line.
	Control valve not functioning properly.	Repair or replace valve.
	Lift cylinder not functioning properly.	Repair or replace cylinder.
	Hydraulic pump not functioning properly.	Repair or replace pump.
Platform will not raise.		
	Joystick not activated within three seconds after lift switch is activated.	Activate lift switch, then activate joystick within three seconds.
	Enable circuit not functioning properly.	Replace enable circuit card.
	Load capacity exceeded. (Personnel and/or equipment on platform).	Reduce load. (Refer to capacity placard).
	Hydraulic system oil low.	Replenish oil as necessary.
	Restricted or broken hydraulic line or fitting.	Clean, repair, or replace line or fitting.
	Control valve not functioning properly.	Repair or replace valve.
	Lift cylinder not functioning properly.	Repair or replace lift cylinder.
	Engine does not respond when lift control switch is moved to up position.	Refer to Electrical System Troubleshooting - No response to control switch.
	No electrical signal being sent to lift up control valve cartridge.	Refer to Electrical System Troubleshooting - No response to control switch.
Platform will not lower		
	Joystick not activated within three sec. after lift switch is activated.	Depress lift switch, then activate controller within three seconds.
	Enable circuit not functioning properly.	Replace enable circuit card.
	No electrical signal sent to lift down control valve cartridge.	Refer to Electrical System Troubleshoot - ing - No response to control switch.
	Lift down control valve cartridge not functioning properly.	Repair or replace lift down control valve cartridge.
	Lift cylinder not functioning properly.	Repair or replace lift cylinder.
	Engine does not respond when lift switch is moved to down position.	Refer to Electrical System Troubleshoot ing - No response to control switch.
	No electrical signal being sent to lift down control valve.	Refer to Electrical System Troubleshoot ing - No response to control switch.

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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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SAE Fastener Torque Chart (Continued)

Values for Zinc Yellow Chromate Fasteners (Ref 4150707)										
SAE GRADE 8 (HEX HD) BOLTS & GRADE 8 NUTS*										
Size	TPI	Bolt Dia	Tensile Stress Area	Clamp Load	Torque (Dry or Loctite® 263) K=0.20		Torque (Loctite® 242™ or 271™ or Vibra-TITE™ 111 or 140) K=0.18		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]
4	40	0.1120	0.00604							
	48	0.1120	0.00661							
6	32	0.1380	0.00909							
	40	0.1380	0.01015							
8	32	0.1640	0.01400							
	36	0.1640	0.01474	1320	43	5				
10	24	0.1900	0.01750	1580	60	7				
	32	0.1900	0.02000	1800	68	8				
1/4	20	0.2500	0.0318	2860	143	16	129	15		
	28	0.2500	0.0364	3280	164	19	148	17		
		In	Sq In	LB	FT-LB	[N.m]	FT-LB	[N.m]	FT-LB	[N.m]
5/16	18	0.3125	0.0524	4720	25	35	20	25	20	25
	24	0.3125	0.0580	5220	25	35	25	35	20	25
3/8	16	0.3750	0.0775	7000	45	60	40	55	35	50
	24	0.3750	0.0878	7900	50	70	45	60	35	50
7/16	14	0.4375	0.1063	9550	70	95	65	90	50	70
	20	0.4375	0.1187	10700	80	110	70	95	60	80
1/2	13	0.5000	0.1419	12750	105	145	95	130	80	110
	20	0.5000	0.1599	14400	120	165	110	150	90	120
9/16	12	0.5625	0.1820	16400	155	210	140	190	115	155
	18	0.5625	0.2030	18250	170	230	155	210	130	175
5/8	11	0.6250	0.2260	20350	210	285	190	260	160	220
	18	0.6250	0.2560	23000	240	325	215	290	180	245
3/4	10	0.7500	0.3340	30100	375	510	340	460	280	380
	16	0.7500	0.3730	33600	420	570	380	515	315	430
7/8	9	0.8750	0.4620	41600	605	825	545	740	455	620
	14	0.8750	0.5090	45800	670	910	600	815	500	680
1	8	1.0000	0.6060	51500	860	1170	770	1045	645	875
	12	1.0000	0.6630	59700	995	1355	895	1215	745	1015
1 1/8	7	1.1250	0.7630	68700	1290	1755	1160	1580	965	1310
	12	1.1250	0.8560	77000	1445	1965	1300	1770	1085	1475
1 1/4	7	1.2500	0.9690	87200	1815	2470	1635	2225	1365	1855
	12	1.2500	1.0730	96600	2015	2740	1810	2460	1510	2055
1 3/8	6	1.3750	1.1550	104000	2385	3245	2145	2915	1785	2430
	12	1.3750	1.3150	118100	2705	3680	2435	3310	2030	2760
1 1/2	6	1.5000	1.4050	126500	3165	4305	2845	3870	2370	3225
	12	1.5000	1.5800	142200	3555	4835	3200	4350	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

500005SK

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Table 2-2. Preventive Maintenance and Safety Inspection

AREA	Inspections	
	Pre-Delivery[1] or Frequent[2] Inspection (Quarterly)	Annual[3] (Yearly) Inspection
Scissor Arms		
Scissor arms	1,2	1,2
Safety prop	1,3	1,3
Nuts, bolts, shafts, shields, bearings and locking devices	1,2	1,2
Cylinder/Pivot pins and attaching hardware	1,2	1,2
Platform Assembly		
Platform	1	1
Platform Gate Assembly	1,3	1,3
Extension Deck and Locks	1,3	1,3
Guard rails and floor	1,2	1,2
Platform roll pins and fold down rails	1	1
Lanyard Anchorage Point	1,2,6	1,2,6
Chassis Assembly		
Wheel rim nuts	1[58]	1[59]
Tires	1,2	1,2
Oscillating axle and lock nut	3	3
Steer, Drive and axle components	1,2,3	1,2,3
Levelling jacks and stabilizers	3	3
Hydraulic tray, battery, engine compartment covers	1,3	1,3
Static Strap	1	1
Pot Hole Protection system	1,2,3	1,2,3
Side-Compartment Door Installation	1,3,5	1,3,5
Drive Motors	1,4,5	1,4,5
Platform Ladder	1,5	1,5
Drive Brakes	1,5	1,5
Drive Hubs	1,5	1,5
Engine Mounts	1	1
Engine Oil	3	3
Exhaust System	1,3	1,3
Sliding Wear Pads**	1,2,5,7	1,2,5,7
Fuel Tank	1,4	1,4
Function/Controls		
Control levers, switches, gauges and instruments	3,5	3,5
Detents properly lock, Control enclosure and protective boots/guards	1,3	1,3
Emergency stop switches at ground and platform	3	3
Lift, drive and speed cut-outs	3	3
Auxiliary power system	3	3
Function enable system	3	3
Brakes	1,3,9	1,3,9

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