



An Oshkosh Corporation Company

Operation and Safety Manual

Original Instructions - Keep this manual with the machine at all times.

Model
520AJ
PVC 2001

ANSI   **AS/NZS** **MOL70**

31215024
February 4, 2020 - Rev B

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1-1	Minimum Approach Distances (M.A.D.)	1-6
1-2	Beaufort Scale (For Reference Only)	1-9
2-1	Inspection and Maintenance Table	2-3
4-1	Ash Load DPF Filter Replacement	4-11
4-2	Maintenance Standstill Cleaning	4-12
4-3	Standstill Cleaning: DPF Filled with Soot	4-13
6-1	Available Accessories	6-1
6-2	Options/Accessories Relationship Table	6-2
7-1	Operating Specifications	7-1
7-2	Dimensional Data	7-2
7-3	Capacities	7-2
7-4	Tires	7-2
7-5	Deutz D201 1L03	7-3
7-6	Hydraulic Oil	7-3
7-7	Mobilfluid 424 Specs	7-4
7-8	DTE 10 Excel 32 Specs	7-4
7-9	Quintolubric 888-46	7-5
7-10	Mobil EAL 224H Specs	7-5
7-11	Lubrication Specifications	7-9
7-12	Wheel Torque Chart	7-17
8-1	Inspection and Repair Log	8-1

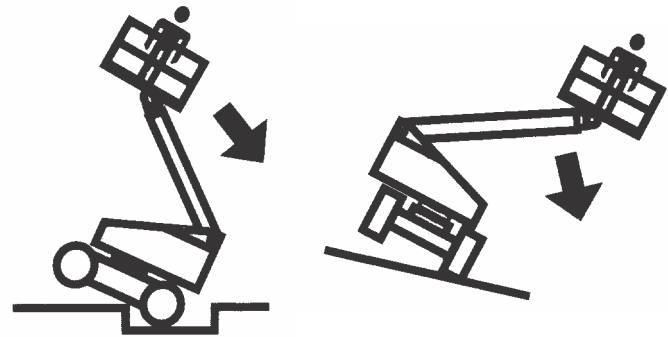
- The minimum approach distance may be reduced if insulating barriers are installed to prevent contact, and the barriers are rated for the voltage of the line being guarded. These barriers shall not be part of (or attached to) the machine. The minimum approach distance shall be reduced to a distance within the designed working dimensions of the insulating barrier. This determination shall be made by a qualified person in accordance with the employer, local, or governmental requirements for work practices near energized equipment.

⚠ DANGER

DO NOT MANEUVER MACHINE OR PERSONNEL INSIDE PROHIBITED ZONE (MAD). ASSUME ALL ELECTRICAL PARTS AND WIRING ARE ENERGIZED UNLESS KNOWN OTHERWISE.

Tipping Hazards

- Ensure that the ground conditions are adequate to support the maximum tire load indicated on the tire load decals located on the chassis adjacent to each wheel. Do not travel on unsupported surfaces.
- The user must be familiar with the operating surface before driving. Do not exceed the allowable sideslope and grade while driving.

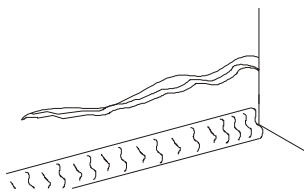


- Do not elevate platform or drive with platform elevated while on or near a sloping, uneven, or soft surface. Ensure machine is positioned on a smooth, firm surface within the limits of the maximum operating slope before elevating platform or driving with the platform in the elevated position.

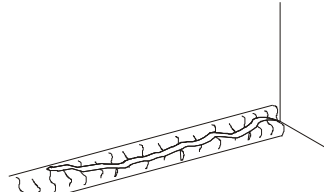
Pre-Start Inspection

The Pre-Start Inspection should include each of the following:

1. **Cleanliness** – Check all surfaces for leakage (oil, fuel, or battery fluid) or foreign objects. Report any leakage to the proper maintenance personnel.
2. **Structure** - Inspect the machine structure for dents, damage, weld or parent metal cracks or other discrepancies.



Parent Metal Crack



Weld Crack

3. **Decals and Placards** – Check all for cleanliness and legibility. Make sure none of the decals and placards are missing. Make sure all illegible decals and placards are cleaned or replaced.
4. **Operation and Safety Manuals** – Make sure a copy of the Operation and Safety Manual, is enclosed in the weather resistant storage container.

5. **Walk-Around Inspection** – Perform as instructed.
6. **Battery** – Charge as required.
7. **Fuel** (Combustion Engine Powered Machines) – Add the proper fuel as necessary.
8. **Engine Oil Supply** - Ensure the engine oil level is at the Full mark on the dipstick and the filler cap is secure.
9. **Hydraulic Oil** – Check the hydraulic oil level. Ensure hydraulic oil is added as required.
10. **Accessories/Attachments** – Refer to the Accessories section in this manual or the accessory installed upon the machine for specific inspection, operation, and maintenance instructions.
11. **Function Check** – Once the Walk-Around Inspection is complete, perform a functional check of all systems in an area free of overhead and ground level obstructions. Refer to Section 4 for more specific operating instructions.
12. **Platform Gate** – Keep gate and surrounding area clean and unobstructed. Verify the gate closes properly and is not bent or damaged. Keep gate closed at all times except when entering/exiting the platform and loading/unloading materials.

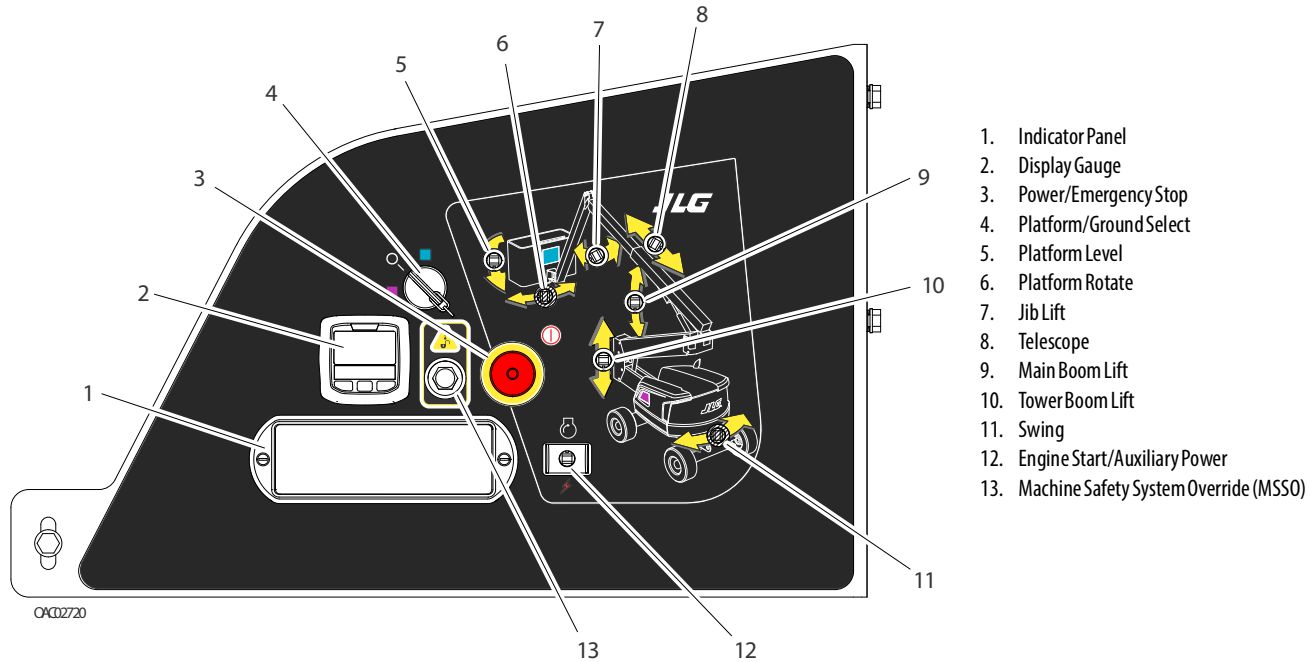


Figure 3-2. Ground Control Console with MSSO

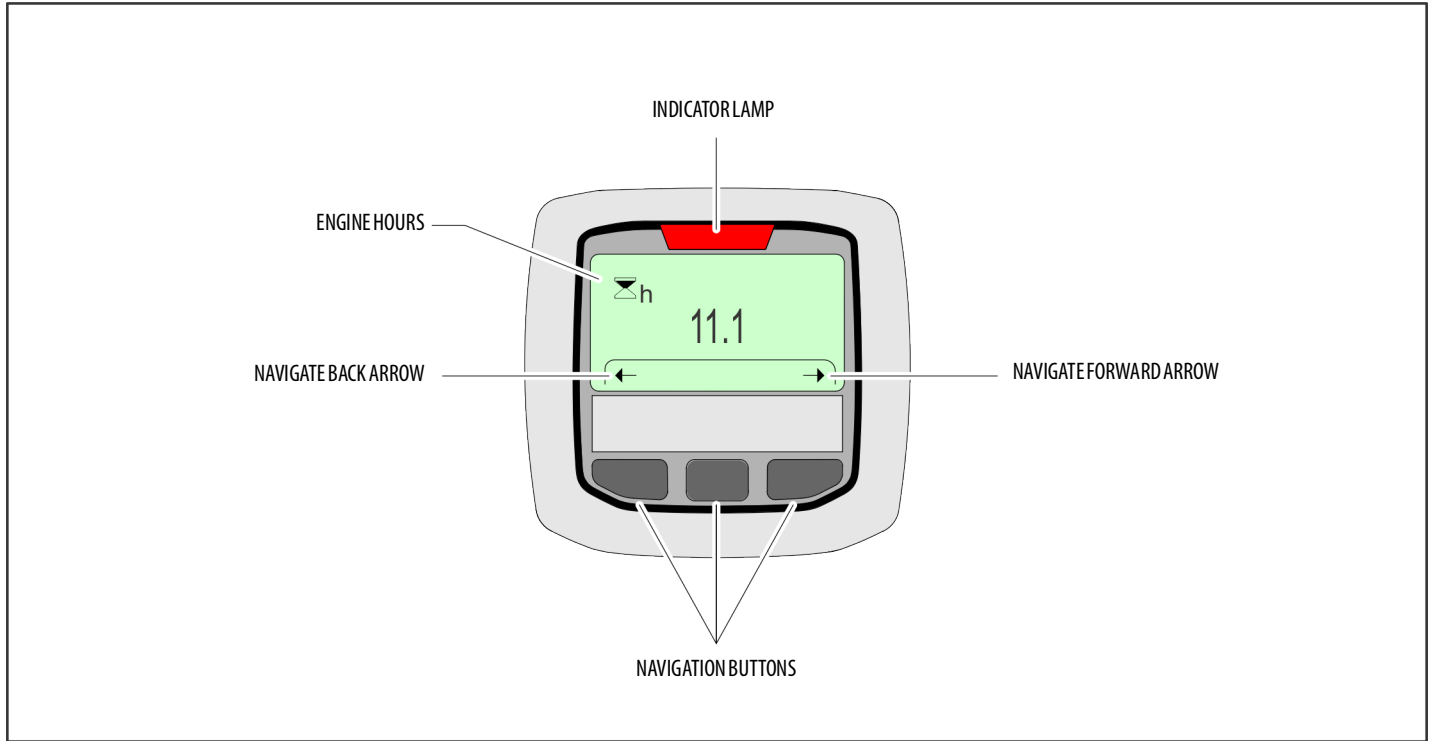


Figure 3-8. Ground Control Console Display Gauge

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SECTION 4. MACHINE OPERATION

4.1 DESCRIPTION

This machine is a mobile elevating work platform used to position personnel, along with their necessary tools and materials at work locations.

The primary operator control console is in the platform. From this control console, the operator can drive and steer the machine in both forward and reverse directions. The operator can raise or lower the boom or swing the boom to the left or right. Standard boom swing is 355 degree non-continuous. The machine has a Ground Control Console which will override the Platform Control Station. Ground Controls operate all functions except drive and steer. Except for performing inspections and the Function Check, the ground controls are to be used in an emergency to lower the platform to the ground should the operator in the platform be unable to do so.





4.2 OPERATING CHARACTERISTICS AND LIMITATIONS

Capacities

Raising boom above horizontal with or without any load in platform, is based on the following criteria:

- 1.** Machine is positioned on a smooth, firm surface within the limits of the maximum operating slope.
- 2.** Load is within manufacturers rated design capacity.
- 3.** All machine systems are functioning properly.
- 4.** Machine is as originally equipped from JLG.

Table 4-1. Ash Load DPF Filter Replacement

	Ash Load	DPF Filter Exchange Indicator	Engine Error Indicator	Derate
Normal Operation	< 100%	--	--	None
Filter Exchange Required	≥ 100%		--	None
Warning Level	≥ 105%	Blinking 	--	None
Warning Level	≥ 110%	Blinking 	Continuous 	Machine placed in Creep and DTC active. Contact Deutz Dealer

SkyGuard Function Table

Drive Forward	Drive Reverse	Steer	Swing	Tower Lift Up	Tower Lift Down	Boom Lift Up	Boom Lift Down	Boom Tele Out	Boom Tele In	Jib Lift	Basket Level	Basket Rotate
R* / C**	R	C	R	R	C	R	R	R	C	C	C	C
R = Indicates Reversal is Activated												
C = Indicates Cutout is Activated												
*DOS (Drive Orientation System) Enabled												
** DOS Not Enabled, machine is driving straight without steering, and any other hydraulic function is active												

SECTION 5. EMERGENCY PROCEDURES

5.1 GENERAL

This section explains the steps to be taken in case of an emergency situation while operating.

5.2 INCIDENT NOTIFICATION

JLG Industries, Inc. must be notified immediately of any incident involving a JLG product. Even if no injury or property damage is evident, the factory should be contacted by telephone and provided with all necessary details.

- USA: 877-JLG-SAFE (554-7233)
- EUROPE: (32) 0 89 84 82 20
- AUSTRALIA: (61) 2 65 811111
- E-mail: ProductSafety@JLG.com

Failure to notify the manufacturer of an incident involving a JLG Industries product within 48 hours of such an occurrence may void any warranty consideration on that particular machine.

NOTICE

FOLLOWING ANY INCIDENT, THOROUGHLY INSPECT THE MACHINE AND TEST ALL FUNCTIONS FIRST FROM THE GROUND CONTROLS, THEN FROM THE PLATFORM CONTROLS. DO NOT LIFT ABOVE 3 M (10 FT.) UNTIL YOU ARE SURE THAT ALL DAMAGE HAS BEEN REPAIRED, IF REQUIRED, AND THAT ALL CONTROLS ARE OPERATING CORRECTLY.

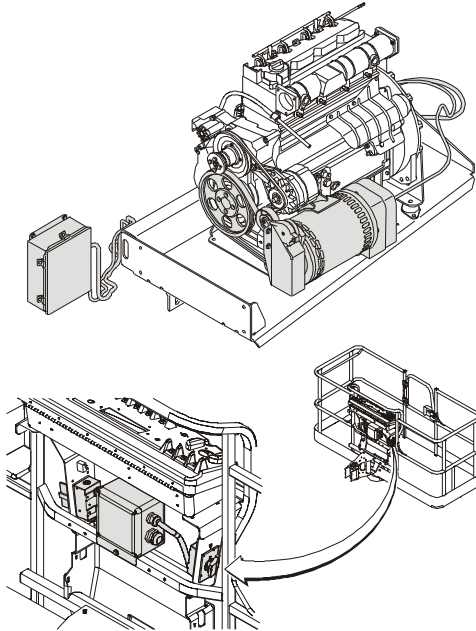
5.3 EMERGENCY OPERATION

Operator Unable to Control Machine

IF THE PLATFORM OPERATOR IS PINNED, TRAPPED OR UNABLE TO OPERATE OR CONTROL MACHINE:

1. Other personnel should operate the machine from ground controls only as required.
2. Other qualified personnel on the platform may use the platform controls. DO NOT CONTINUE OPERATION IF CONTROLS DO NOT FUNCTION PROPERLY.
3. Cranes, forklift trucks or other equipment can be used to stabilize motion of the machine.

Platform or Boom Caught Overhead

6.3 SKYPOWER™

The SkyPower™ system supplies AC power to the platform through an AC receptacle to run tools, lights, cutting, and welding equipment.

All power regulation components are located in a watertight box connected by cable to the generator. The generator supplies power when running at the specified speed with the power switch on (switch is located on platform). A three-pole, 30 Amp circuit breaker protects the generator from overload.

Generator Output**CE Specifications:**

- 3-phase: 240 V, 7.5 kW, 18.3 A, 1.0-pf
- 1-phase: 240 V, 6.0 kW, 26 A, 1.0-pf
- 1-phase: 120 V, 6.0 kW, 50 A, 1.0-pf

Peak:

- 3-phase: 8.5 kW
- 1-phase: 6.0 kW

Engine Data

Table 7-5. Deutz D2011L03

Fuel	Diesel
No. of Cylinders	3
Bore	3.7 in (94 mm)
Stroke	4.4 in (112 mm)
Displacement	142 cu. in (2331 cm ³)
Oil Capacity	
crankcase	6.3 qt (6 L)
cooler	3.7 qt (3.5 L)
total capacity	10 qt (9.5 L)
Low RPM	1200
Mid RPM	
Tower Lift, Upper Lift, Tele	
Swing, Basket Level, Basket	1800
Rotate, Jib Lift	1500
High RPM	2800

Hydraulic Oil

Table 7-6. Hydraulic Oil

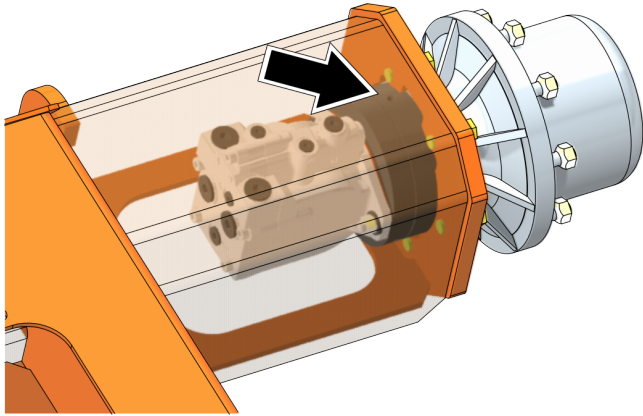
Hydraulic System Operating Temperature Range	S.A.E. Viscosity Grade
+0° to +180° F (-18° to +83° C)	10W
+0° to +210° F (-18° to +99° C)	10W-20, 10W30
+50° to +210° F (+10° to +99° C)	20W-20

NOTE: Hydraulic oils require anti-wear qualities at least API Service Classification GL-3, and sufficient chemical stability for mobile hydraulic system service.

NOTE: Machines may be equipped with standard UTTO biodegradable and non-toxic hydraulic oil. This is a fully synthetic hydraulic oil that possesses the same anti-wear and rust protection characteristics as mineral oils, but will not adversely affect the ground water or the environment when spilled or leaked in small amounts.

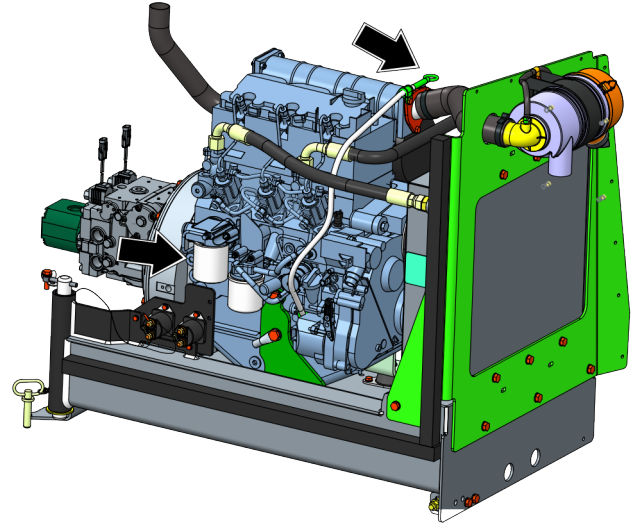
SECTION 7 - GENERAL SPECIFICATIONS & OPERATOR MAINTENANCE

7. Drive Brake



Lube Point(s) - Fill Plug
Capacity - 27 oz. (0.8 L)
Lube - DTE-13M
Interval - Change as necessary

8. Oil Change with Filter - Deutz 2.3 L3



Lube Point(s) - Fill Cap/Spin-on Element
Capacity - 10 Quarts (9.5 L) w/Filter
Lube - EO
Interval - Check level daily; change every 500 hours or six months, whichever comes first. Adjust final oil level by mark on dipstick.

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