



An Oshkosh Corporation Company

Service and Maintenance Manual

Model
600A
660AJ

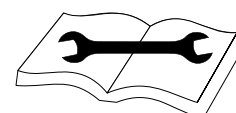
S/N 0300177361
to Present

P/N - 3121616

February 3, 2015

ANSI

CE



NOTE: This manual also applies to machine with Serial Number 0300176207.

SECTION A. INTRODUCTION - MAINTENANCE SAFETY PRECAUTIONS

A GENERAL

This section contains general safety precautions which must be observed during aerial platform maintenance. It is of utmost importance that maintenance personnel pay strict attention to these warnings and precautions to avoid possible injury to themselves or others, or damage to the equipment. A maintenance program must be followed to ensure the machine is safe to operate.

WARNING

MODIFICATION OR ALTERATION OF AN AERIAL WORK PLATFORM SHALL BE MADE ONLY WITH WRITTEN PERMISSION FROM THE MANUFACTURER.

Specific precautions to be observed during maintenance are inserted at the appropriate point in the manual. These precautions are, for the most part, those that apply when servicing hydraulic and larger machine component parts.

Your safety, and that of others, is the first consideration when engaging in maintenance of equipment. Always be conscious of weight. Never attempt to move heavy parts without the aid of a mechanical device. Do not allow heavy objects to rest in an unstable position. When raising a portion of the equipment, ensure adequate support is provided.

WARNING

SINCE THE MACHINE MANUFACTURER HAS NO DIRECT CONTROL OVER THE FIELD INSPECTION AND MAINTENANCE, SAFETY IN THIS AREA RESPONSIBILITY OF THE OWNER/OPERATOR.

B HYDRAULIC SYSTEM SAFETY

It should be noted the machines hydraulic systems operate at extremely high potentially dangerous pressures. Every effort should be made to relieve any system pressure prior to disconnecting or removing any portion of the system.

C MAINTENANCE

WARNING

FAILURE TO COMPLY WITH SAFETY PRECAUTIONS LISTED IN THIS SECTION COULD RESULT IN MACHINE DAMAGE, PERSONNEL INJURY OR DEATH AND IS A SAFETY VIOLATION.

- ENSURE REPLACEMENT PARTS OR COMPONENTS ARE IDENTICAL OR EQUIVALENT TO ORIGINAL PARTS OR COMPONENTS.
- NO SMOKING IS MANDATORY. NEVER REFUEL DURING ELECTRICAL STORMS. ENSURE THAT FUEL CAP IS CLOSED AND SECURE AT ALL OTHER TIMES.
- REMOVE ALL RINGS, WATCHES AND JEWELRY WHEN PERFORMING ANY MAINTENANCE.
- DO NOT WEAR LONG HAIR UNRESTRAINED, OR LOOSE-FITTING CLOTHING AND NECKTIES WHICH ARE APT TO BECOME CAUGHT ON OR ENTANGLED IN EQUIPMENT.
- OBSERVE AND OBEY ALL WARNINGS AND CAUTIONS ON MACHINE AND IN SERVICE MANUAL.
- KEEP OIL, GREASE, WATER, ETC. WIPED FROM STANDING SURFACES AND HAND HOLDS.
- USE CAUTION WHEN CHECKING A HOT, PRESSURIZED COOLANT SYSTEM.
- NEVER WORK UNDER AN ELEVATED BOOM UNTIL BOOM HAS BEEN SAFELY RESTRAINED FROM ANY MOVEMENT BY BLOCKING OR OVERHEAD SLING, OR BOOM SAFETY PROP HAS BEEN ENGAGED.
- BEFORE MAKING ADJUSTMENTS, LUBRICATING OR PERFORMING ANY OTHER MAINTENANCE, SHUT OFF ALL POWER CONTROLS.
- ALWAYS DISCONNECT BATTERY DURING REPLACEMENT OF ELECTRICAL COMPONENTS.
- KEEP ALL SUPPORT EQUIPMENT AND ATTACHMENTS STOWED IN THEIR PROPER PLACE.
- USE ONLY APPROVED, NONFLAMMABLE CLEANING SOLVENTS.

REVISION LOG

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SECTION 1. SPECIFICATIONS

1.1 OPERATING SPECIFICATIONS

Table 1-1. Operating Specifications

Maximum Work Load (Capacity) - ANSI Unrestricted: Restricted:	500 lb (227 kg) 1000 lb (454 kg)
Maximum Work Load (Capacity) - CE & Australia Unrestricted: Restricted:	500 lb (230 kg) 1000 lb (450 kg)
Maximum Travel Grade (Gradeability) 2WD 4WD	30% 45%
Maximum Travel Grade (Side Slope)	5°
Turning Radius - (Outside) 2WS 4WS	17 ft. 7 in. (5.36 m) 9 ft. 6 in. (2.9 m)
Turning Radius - (Outside) Narrow chassis 2WS 4WS	16 ft. 6 in. (5.03 m) 11 ft. 2 in. (3.4 m)
Turning Radius - (Inside) 2WS 4WS	10 ft. 11 in. (3.33 m) 4 ft. 7 in. (1.41 m)
Turning Radius - (Inside) Narrow chassis 2WS 4WS	12 ft. 2 in. (3.71 m) 5 ft. 7 in. (1.7 m)
Maximum Tire Load:	11,700 lbs. (5307 kg)
Ground Bearing Pressure 600A 600AJ 600A - Narrow Chassis 600AJ - Narrow Chassis	77 psi (5.5kg/cm ²) 77 psi (5.5 kg/cm ²) 94 psi (6.6 kg/cm ²) 94 psi (6.6 kg/cm ²)
Maximum Drive Speed	4.25 MPH (6.25KPH)
Gross Machine Weight --600A 2WS 4WS Narrow Chassis	21,640 lbs. (9,816 kg) 22,040 lbs. (9,997 kg) 23,900 lbs. (10,841 kg)
Gross Machine Weight --600AJ 2WS 4WS Narrow Chassis	22,240 lbs. (10,088 kg) 22,740 lbs. (10,315 kg) 24,000 lbs. (10,886 kg)

1.2 DIMENSIONAL DATA

Table 1-2. Dimensional Data

Machine Height (Stowed) 600A 600AJ	8 ft. 4 in. (2.54 m) 8 ft. 5 in. (2.57 m)
Machine Length (Stowed) 600A 600AJ	26ft. 5 in. (8.05 m) 29 ft. (8.80 m)
Machine Width (by tire size) 355/55D-625 41/18Lx22.5X625 (turf)	98 in. (2.49 m) 100 in. (2.54 m)
Wheelbase	8 ft. 2 in. (2.49m)
Ground Clearance	11.7 in. (0.29 m)
Platform Height 600A 600AJ	60 ft. 5 in. (18.42 m) 60 ft. 7 in. (18.47 m)
Horizontal Reach 600A 600AJ	39 ft. 7 in. (12.07 m) 39 ft. 9 in. (12.10 m)
Tail Swing	0 in. (0 m)
Maximum Work Load (Capacity) - ANSI Unrestricted: Restricted:	500 lb (227 kg) 1000 lb (454 kg)
Maximum Work Load (Capacity) - CE & Australia Unrestricted: Restricted:	500 lb (230 kg) 1000 lb (450 kg)

SECTION 1 - SPECIFICATIONS

1.3 CAPACITIES

Table 1-3. Capacities

Fuel Tank	30 gal (113.6L)
Hydraulic Oil Tank	30.6 gal (115.8L)
Hydraulic System (Including Tank)	40 gal (121 L)
Torque Hub, Drive*	20 oz (0.6L)
Engine Crankcase Deutz D2011L04 Deutz 2.9L 04 GM 3.0	11 qt (10.5L) 2.4 gal (8.9L) w/Filter 4.5 qt (4.25 L) w/Filter
*Fill torque hubs half (1/2) full of lubricant.	

1.4 TIRES

Table 1-4. Tire Specifications

Size	IN355/55D 625
Load Range	G
Ply Rating	14
Foam Fill (Optional)	Foam/Crumb
Diameter	36.9
Width	13.95
Rim Size	11.75 x 24.5
Max Tire Load	11,700 lb (5307 kg) @ 90 psi (6 bar)
Size	14x17.5 Airboss
Load Range	G
Diameter	35.6
Width	14
Max Tire Load	11,800 lb (5443 kg)
Size	41/18LLx22.5 Turf/Sand
Load Range	G
Ply Rating	N/A
Foam Fill	Soft
Diameter	41
Width	18.4
Rim Size	14 x 22.5
Max Tire Load	15,500 lb @ 70 psi/5 bar
Size	36x12-20FA Solidboss
Load Range	G
Ply Rating	N/A
Diameter	36
Width	12
Max Tire Load	11,800 lb (5443 kg)

1.5 ENGINE DATA

Table 1-5. Deutz TD 2.9 Specifications

Fuel	Ultra Low Sulfur Diesel (15 ppm)
Output	67 hp (50 kW)
Torque	173 ft.lbs. (234 Nm) @ 1800rpm
Oil Capacity (Crankcase)	2.4 gal (8.9L) w/Filter
Cooling System	3.3 gal (12.5 L)
Low RPM	1200 ± 50 rpm
High RPM	2600 ± 50 rpm
Alternator	95 Amp
Fuel Consumption	0.65 GPH (2.48 lph)

Table 1-6. Deutz D2011L04

Fuel	Diesel
Oil Capacity	5 qt (4.5 L)
Cooling System	11 qt (10.5 L) w/Filter
Crankcase	16 qt (15 L)
Total Capacity	
Idle RPM	1000
Low RPM	1800
High RPM	2500
Alternator	60 Amp, belt drive
Battery	950 Cold Cranking Amps, 205 Minutes Reserve, 12 VDC
Fuel Consumption	0.65 GPH (2.46 LPH)
Horsepower	49

Table 1-7. GM 3.0L

Fuel	Gasoline or Gasoline/LP Gas
No. of Cylinders	4
BHP	
Gasoline	83 hp @ 3000 rpm
LP	75 hp @ 3000 rpm
Bore	4.0 in. (101.6 mm)
Stroke	3.6 in. (91.44 mm)
Displacement	181 cu.in. (3.0 L, 2966 cc)
Oil Capacity w/filter	4.5 qt (4.25 L)
Minimum Oil Pressure	
at idle	6 psi (0.4 Bar) @ 1000 rpm
Hot	18 psi (1.2 Bar) @ 2000 rpm
Compression Ratio	9.2:1
Firing Order	1-3-4-2
Max. RPM	2800
Fuel Consumption	N/A