SERVICE/INSPECTION CHECKLIST

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SUBJECT: 20/005: Service/Inspection Checklist - JCB Access - Articulated Lift Arm

PRODUCTS AFFECTED: AJ48D

TO BE CARRIED OUT: Information Only

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Machine and Dealer Information

Table 1.

Dealer Stamp (Below):	Machine Type:
	Serial Number:
	Distributor:
	Depot:
	Job Number:
	Hourmeter Reading:
	Date of Registration:
	Date of Service:
	Customer Name:
	Engineer Name:

Introduction

⚠ **WARNING** Maintenance must be done only by suitably qualified and competent persons.

Before doing any maintenance make sure the machine is safe, it must be correctly parked on solid, level ground.

To prevent anyone starting the machine, remove the key. Disconnect the battery (by means of the battery isolator if installed) when you are not using electrical power. If you do not take these precautions you could be killed or injured.

A badly maintained machine is a danger to the operator and the people working around the operator. Make sure that the regular maintenance and lubrication tasks listed in the service schedules are done to keep the machine in a safe and efficient working condition.

Apart from the daily tasks, the schedules are based on time. Keep a regular check on the hourmeter readings to monitor the hourmeter equivalents. When there is no hourmeter installed, use the calendar equivalents to determine the service intervals.

Do not use a machine which is due for a service. Make sure any defects found during the regular maintenance checks are corrected immediately.

How to Use the Maintenance Schedule

The schedules show the service tasks which must be done and their intervals.

The services must be done at either the hourly interval or the calendar equivalent, whichever occurs first.

The intervals given in the schedules must not be exceeded. If the machine is operated under severe conditions (high temperature, dust, water, etc.) shorten the intervals. Where local regulations require more frequent checks, the local regulations intervals should be followed.

Table 2.

O	Service task can be completed by a competent operator. Details of how to complete the service task are given in the Operator's Manual.
□	We recommend that a Service Engineer completes the service task. Details of how to complete the service task are given in the Service Manual.

Maintenance Intervals

Table 3.

Interval (h)	Calendar Equivalent
10	Daily
50	Weekly
250	Three months
500	Six months
1000	Yearly
1500	Eighteen months
2000	Two years

Pre-start Cold Checks, Service Points and Fluid Levels

Table 4.

Component	Task	Daily	Weekly	250	500	1000	1500	2000
Operator's Manual	Check (condition)	○	○	○	□	□	□	□
Canopy and latches	Check (condition)	○	○	○	□	□	□	□
Safety Labels	Check (condition)	○	○	○	□	□	□	□
Engine compartment	Check security				□	□	□	□
Engine compartment hose	Check condition/security	○	○	○	□	□	□	□
Engine oil	Check (level)	○	○	○	□	□	□	□
Engine oil	Check (leaks)	○	○	○	□	□	□	□
Engine oil	Replace				□	□	□	□
Engine oil filter	Replace				□	□	□	□
Engine coolant	Check (level)	○	○	○	□	□	□	□
Engine coolant	Check (condition)				□	□	□	□
Engine coolant	Replace							□
Engine coolant	Check (leaks)	○	○	○	□	□	□	□
Engine radiator	Check (condition)			○	□	□	□	□
Cooling pack	Check/clean	○	○	○	□	□	□	□
Cooling hoses(3)	Replace							
Front end drive belt	Check (condition)		○	○	□	□	□	□
Front end drive belt(3)	Replace							
Air filter	Check (condition)	○	○	○	□	□	□	□
Air filter element (outer)(2)	Replace					□		□
Air filter element (inner)(2)	Replace							□
Air filter dust valve	Check operation/Clean		○	○	□	□	□	□
Intake manifold hose(3)	Replace							
Engine fuel	Check (leaks)	○	○	○	□	□	□	□
Water Separator/fuel filter	Clean/Drain	○	○	○	□	□	□	□
Water Separator/fuel filter element	Replace				□	□	□	□
Engine fuel filter	Replace				□	□	□	□
Fuel tank cap- vent	Check (condition)	○	○	○	□	□	□	□
Exhaust system	Check (condition)	○	○	○	□	□	□	□
Hydraulic hoses	Check (condition)	○	○	○	□	□	□	□
Hydraulic oil	Check (level)	○	○	○	□	□	□	□
Hydraulic oil	Check (leaks)	○	○	○	□	□	□	□
Hydraulic oil	Replace							□
Hydraulic return filter	Replace					□		□
Suction strainer	Replace							□
Charge pump filter	Replace					□		□
High pressure filter	Replace					□		□
Vent filter - hydraulic tank	Replace							□
Batteries terminal	Clean	○	○	○	□	□	□	□
All electrical cables and conductors	Check (condition)	○	○	○	□	□	□	□
Welds	Check (condition)	○	○	○	□	□	□	□

Machine damage, missing parts	Check (condition)	○	○	○	□	□	□	□
Fasteners	Check (condition)	○	○	○	□	□	□	□
Platform guard rail	Check (condition)	○	○	○	□	□	□	□
Steer pivots	Grease		○	○	□	□	□	□
Tyres and wheels	Check (condition)	○	○	○	□	□	□	□
Hub oil	Check (level)				□	□	□	□
Hub oil(1)	Replace					□		□
Telescopic boom wear pad	Check (condition)					□	□	□
Telescopic boom (inner and outer)	Grease (waxoil)			○	□	□	□	□
Slew bearing	Check (condition)					□	□	□
Battery leads	Check (condition)	○	○	○	□	□	□	□

(1) An initial oil change should be made after the first 50 Hours only, to be completed by your JCB Distributor.

(2) The period of time that must elapse before checking the filter element depends on the environment in which the engine operates. The air filter must be cleaned and replaced more frequently under very dusty conditions.

(3) At every 5,000h.

Functional Tests and Final Inspection

Table 5.

Component	Task	Daily	Weekly	250	500s	1000	1500	2000
Ground controller								
Emergency stop	Check (operation)	○	○	○	□	□	□	□
Platform raise and lower functions	Check (operation)	○	○	○	□	□	□	□
Electric pump	Check (operation)	○	○	○	□	□	□	□
Ignition switch	Check (operation)	○	○	○	□	□	□	□
Ground control emergency override	Check (operation)	○	○	○	□	□	□	□
Engine start	Check (operation)	○	○	○	□	□	□	□
Engine speed	Check (operation)	○	○	○	□	□	□	□
Horn	Check (operation)	○	○	○	□	□	□	□
Emergency override switch	Check (operation)	○	○	○	□	□	□	□
Platform controller								
Emergency stop	Check (operation)	○	○	○	□	□	□	□
Platform raise and lower functions	Check (operation)	○	○	○	□	□	□	□
Foot pedal switch	Check (operation)	○	○	○	□	□	□	□
Steering	Check (operation)	○	○	○	□	□	□	□
Drive and brake	Check (operation)	○	○	○	□	□	□	□
Worklight (if installed)	Check (operation)	○	○	○	□	□	□	□
Power to platform (if power tool installed)	Check (operation)	○	○	○	□	□	□	□
Horn	Check (operation)	○	○	○	□	□	□	□
Engine speed	Check (operation)	○	○	○	□	□	□	□
Electric pump	Check (operation)	○	○	○	□	□	□	□
General								
Limited driving speed (with platform lifted and stowed)	Check (operation)	○	○	○	□	□	□	□
Tilt sensor	Check (operation)	○	○	○	□	□	□	□
Limit switch and boom position indicator	Check (operation)	○	○	○	□	□	□	□
Axle oscillation lock	Check (operation)	○	○	○	□	□	□	□
Platform levelling	Check (operation)	○	○	○	□	□	□	□

Overload System	Check (operation)				☐	☐	☐	☐
Hydraulic system pressure	Check (settings)				☐	☐	☐	☐
Hydraulic system functional test	Check (operation)				☐	☐	☐	☐
Overload test	Check (operation)				☐	☐	☐	☐
Engine idle selection	Check (operation)				☐	☐	☐	☐
Travel alarm	Check (operation)	○	○	○	☐	☐	☐	☐
Buzzers	Check (operation)	○	○	○	☐	☐	☐	☐
Drive speed	Check				☐	☐	☐	☐
Boom and slew speed	Check				☐	☐	☐	☐
Hydraulic generator (If installed)	Check (operation)		○	○	☐	☐	☐	☐
Hydraulic generator- wiring and connectors (If installed)	Check	○	○	○	☐	☐	☐	☐
RCBO (Residual Current Breaker with Over-Current)	Check (operation)			○	☐	☐	☐	☐
AC (Alternating Current) power to platform cables	Visual inspection			○	☐	☐	☐	☐
AC power to platform cables	Check (operation)			○	☐	☐	☐	☐
Platform secondary guarding system	Check (operation)	○	○	○	☐	☐	☐	☐

Paintwork Defects

Figure 1.

Zoom

Remarks/Action Implemented During the Machine Service

Figure 2.

Zoom

Outstanding Action Required

Figure 3.

Zoom