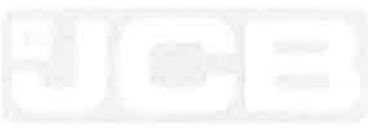


SERVICE/INSPECTION CHECKLIST

DATE: 05/2023	ISSUE: A	NUMBER: 20/027
SUBJECT: 20/027: Service/Inspection Checklist - JCB Access - Articulated Lift Arm [Electric]		
PRODUCTS AFFECTED: A45E		
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

<p>⚠</p>	<p>WARNING Maintenance must be done only by suitably qualified and competent persons.</p> <p>Before doing any maintenance make sure the machine is safe, it must be correctly parked on solid, level ground.</p> <p>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.</p>
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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.

<input type="radio"/>	Service task can be completed by a competent operator. Details of how to complete the service task are given in the Operator's Manual.
<input type="checkbox"/>	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
6	Daily
20	Weekly
150	Six months
250	Yearly
400	Fifteen months
500	Two years
1250	Five years

Operator Maintenance Tasks

Table 4.

Component	Task	Daily	Weekly	150
Hydraulics				
Hydraulic hoses	Check (condition)	○	○	○
Hydraulic oil	Check (level)	○	○	○
Hydraulic oil	Check (leaks)	○	○	○
Electrics				
Battery	Clean	○	○	○
Battery charge	Check	○	○	○
Battery electrolyte level (if applicable)	Check (level)	○	○	○
Battery isolator	Check (operation)	○	○	○
Battery terminal	Clean	○	○	○
Battery leads	Check (condition)	○	○	○
All electrical cables and conductors	Check (condition)	○	○	○
Wiring	Check (condition)		○	○
Equipotential bond cables damage ⁽²⁾	Check (condition)		○	○
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)			○
Miscellaneous				
Safety labels - renew as required	Check (condition)	○	○	○
Operator's Manual	Check (condition)	○	○	○
Canopy and latches	Check (condition)	○	○	○
Welds	Check (condition)	○	○	○
Fasteners	Check (condition)	○	○	○
Platform guard rail	Check (condition)	○	○	○
Telescopic boom (inner and outer)	Grease (waxoyl)			○
Steering linkages	Check (condition)			○
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)	○	○	○
Travel alarm	Check (operation)	○	○	○
Buzzers	Check (operation)	○	○	○
Platform secondary guarding system	Check (operation)	○	○	○
Slew acknowledgment functions	Check (operation)	○	○	○
Tyres and wheels	Check (condition)	○	○	○
Machine damage, missing parts	Check (condition)	○	○	○
Wheel nut	Check (torque)		○	○
Pivot pin nut - rotary actuator	Check (torque)		○	○
Slew ring bolts	Check (torque)			○
Counter weight bolts	Check (torque)			○
Base controller				
Emergency stop	Check (operation)	○	○	○
Platform raise and lower functions	Check (operation)	○	○	○
Electric pump	Check (operation)	○	○	○

Ignition switch	Check (operation)	○	○	○
Base control emergency override	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)	○	○	○

(1) Check the charge level of the batteries at least every 30 days. Charge the batteries if the charge level is below 50%.

(2) Check condition and replace if damaged (yellow/green and braided equipotential bond earthing cables).

Service Engineer Maintenance Tasks

Table 5.

Component	Task	250	500
Hydraulics			
Hydraulic hoses	Check (condition)	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic oil	Check (level)	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic oil	Check (leaks)	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic oil	Replace		<input type="checkbox"/>
Hydraulic return filter	Replace		<input type="checkbox"/>
Suction strainer	Replace		<input type="checkbox"/>
Charge pump filter	Replace		<input type="checkbox"/>
High pressure filter	Replace		<input type="checkbox"/>
Vent filter - hydraulic tank	Replace		<input type="checkbox"/>
Electrics			
Battery	Clean	<input type="checkbox"/>	<input type="checkbox"/>
Battery charge	Check	<input type="checkbox"/>	<input type="checkbox"/>
Battery electrolyte level (if applicable)	Check (level)	<input type="checkbox"/>	<input type="checkbox"/>
Battery isolator	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>
Battery terminal	Clean	<input type="checkbox"/>	<input type="checkbox"/>
Battery leads	Check (condition)	<input type="checkbox"/>	<input type="checkbox"/>
All electrical cables and conductors	Check (condition)	<input type="checkbox"/>	<input type="checkbox"/>
Wiring	Check (condition)	<input type="checkbox"/>	<input type="checkbox"/>
RCBO	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>
AC power to platform cables	Visual inspection	<input type="checkbox"/>	<input type="checkbox"/>
AC power to platform cables	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>
Equipotential bond cables resistance ⁽²⁾	Check (condition)		<input type="checkbox"/>
Miscellaneous			
Safety labels - renew as required	Check (condition)	<input type="checkbox"/>	<input type="checkbox"/>
Operator's Manual	Check (condition)	<input type="checkbox"/>	<input type="checkbox"/>
Canopy and latches	Check (condition)	<input type="checkbox"/>	<input type="checkbox"/>
Welds	Check (condition)	<input type="checkbox"/>	<input type="checkbox"/>
Fasteners	Check (condition)	<input type="checkbox"/>	<input type="checkbox"/>
Platform guard rail	Check (condition)	<input type="checkbox"/>	<input type="checkbox"/>
Steer pivots	Grease	<input type="checkbox"/>	<input type="checkbox"/>
Hub oil	Check (level)	<input type="checkbox"/>	<input type="checkbox"/>
Hub oil	Replace		<input type="checkbox"/>
Telescopic boom wear pad	Check (condition)		<input type="checkbox"/>
Telescopic boom (inner and outer)	Grease (waxoyl)	<input type="checkbox"/>	<input type="checkbox"/>
Slew bearing	Check (condition)		<input type="checkbox"/>
Limited driving speed (with platform lifted and stowed)	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>
Tilt sensor	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>
Limit switch and boom position indicator	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>
Axle oscillation lock	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>
Platform levelling	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>
Overload system	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic system pressure	Check (settings)	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic system functional test	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>
Overload test	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>

Drive speed	Check	<input type="checkbox"/>	<input type="checkbox"/>
Boom and slew speed	Check	<input type="checkbox"/>	<input type="checkbox"/>
Steering linkages	Check (condition)	<input type="checkbox"/>	<input type="checkbox"/>
Travel alarm	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>
Buzzers	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>
Platform secondary guarding system	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>
Slew acknowledgment functions	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>
Tyres and wheels	Check (condition)	<input type="checkbox"/>	<input type="checkbox"/>
Machine damage, missing parts	Check (condition)	<input type="checkbox"/>	<input type="checkbox"/>
Wheel nut	Check (torque)	<input type="checkbox"/>	<input type="checkbox"/>
Pivot pin nut - rotary actuator	Check (torque)	<input type="checkbox"/>	<input type="checkbox"/>
Slew ring bolts	Check (torque)	<input type="checkbox"/>	<input type="checkbox"/>
Counter weight bolts	Check (torque)	<input type="checkbox"/>	<input type="checkbox"/>
Base controller			
Emergency stop	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>
Platform raise and lower functions	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>
Electric pump	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>
Ignition switch	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>
Base control emergency override	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>
Horn	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>
Emergency override switch	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>
Platform controller			
Emergency stop	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>
Platform raise and lower functions	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>
Foot pedal switch	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>
Steering	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>
Drive and brake	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>
Worklight (if installed)	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>
Power to platform (if power tool installed)	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>
Horn	Check (operation)	<input type="checkbox"/>	<input type="checkbox"/>

(1) Check the charge level of the batteries at least every 30 days. Charge the batteries if the charge level is below 50%.

(2) Check resistance from ground to the protective earth in the on board charger plug to be no greater than 0.2 ohms.

Paintwork Defects

Figure 1.

Zoom

Remarks/Action Implemented During the Machine Service

Figure 2.

Zoom

Outstanding Action Required

Figure 3.

