

# Service Manual

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**406**  
**407**  
**408**  
**409**

JCB SERVICE ©  
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# Contents

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This Service Manual covers the following machines:

406  
407  
408  
409  
\* 409 Telemaster

407 and 409 Machines commence from Serial Number 632700.

Unless otherwise stated, information for 406 also applies to 407 and information for 408 also applies to 409 and the 409 Telemaster.

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## Introduction

This publication is designed for the benefit of JCB Distributor Service Engineers who are receiving or have received training by the JCB Technical Training Department.

It is assumed that such personnel have a sound knowledge of good workshop practice, safety procedures and general techniques associated with the maintenance and repair of hydraulic earthmoving equipment. Details of such may therefore be omitted from this manual, the primary intention being to convey the more specialised information concerning particular aspects of the machine or component in question.

Renewal of oil seals, gaskets, etc. and any component showing obvious wear or damage is expected. It is also expected that components will be thoroughly cleaned and lubricated where appropriate, also that any opened hose or pipe connections will be blanked to prevent entry of dirt and excessive loss of hydraulic fluid.

For convenience the manual is compiled in sections, e.g. "Hydraulics", "Electrics" etc., but to find details of a specific component or its application, reference should be made to the alphabetical index at the back of the manual.

Except where a maximum and minimum figure is given, torque settings quoted in the text are intended as 'mean' figures which may be varied by + or - 3%. Where no figure is quoted in the text, refer to page 1/1 - 3.

'Left Hand' and 'Right Hand' are as viewed from the rear of the machine looking forward.

### **WARNING**

#### **Fluoroelastomeric Materials**

Certain seals and gaskets (e.g. crankshaft oil seal) on JCB machines contain fluoroelastomeric materials such as Viton, Fluorel and Technoflon. Fluoroelastomeric materials subjected to high temperatures can produce highly corrosive hydrofluoric acid. THIS ACID CAN SEVERELY BURN.

New fluoroelastomeric components at ambient temperature require no special safety precautions.

Used fluoroelastomeric components whose temperatures have not exceeded 300°C require no special safety precautions. If evidence of decomposition (e.g. charring) is found, refer to the next paragraph for safety instructions DO NOT TOUCH COMPONENT OR SURROUNDING AREA.

Used fluoroelastomeric components subjected to temperatures greater than 300°C (e.g. engine fire) must be treated using the following safety procedure. Make sure that heavy duty gloves and special safety glasses are worn:

- 1 Ensure that components have cooled then remove and place material into plastic bags.
- 2 Thoroughly wash contaminated area with 10% calcium hydroxide or other suitable alkali solution, if necessary use wire wool to remove burnt remains.
- 3 Thoroughly wash contaminated area with detergent and water.
- 4 Contain all removed material, gloves etc. used in this operation in sealed plastic bags and dispose of in accordance with Local Authority Regulations.

DO NOT BURN FLUOROELASTOMERIC MATERIALS.

If contamination of skin or eyes occurs, wash the affected area with a continuous supply of clean water or with calcium hydroxide solution for 15-60 minutes. Get medical attention immediately.

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### **WARNING**

#### **Asbestos**

Asbestos dust can damage your lungs. Some engine joints and gaskets may contain asbestos. Take the following precautions when working on them.

- 1 Wear a face mask and gloves.
- 2 Work in a well ventilated area and do not smoke.
- 3 Do not use a rotary wire brush, use a hand scraper.
- 4 Make sure the material to be removed is wet with oil or water to contain loose particles.
- 5 Place all material into plastic bags and dispose of in accordance with local regulations.

GEN-1-8

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**Note:** New engines DO NOT require a running-in period. The engine/machine should be used in a normal work cycle immediately; glazing of the piston cylinder bores, resulting in excessive oil consumption, could occur if the engine is gently run-in. Under no circumstances should the engine be allowed to idle for extended periods; (e.g. warming up without load). Engines of new machines are filled at the factory with JCB 10W/30 Multigrade oil. This oil should be drained after the first 100 hours operation and the engine filled with the appropriate recommended grade as shown in the lubrication chart. JCB 10W/30 Multigrade should also be used for the first 100 hours operation whenever a new or reconditioned engine is fitted to the machine. After the first 100 hours operation, it is essential that the 10W/30 oil is replaced by the lubricant recommended below.

ITEM	CAPACITY	FLUID/LUBRICANT	SPECIFICATION
<b>Engine Oil</b> -18 to 0° C -10 to 50° C	<b>406</b> 7.2 litres (1.6 UK gal) <b>408</b> 10.7 litres (2.4 UK gal)	JCB Torque Converter Fluid JCB 15W/40 Multigrade	API CD MIL-L-2104C
<b>Gearbox</b>	<b>Syncro Shuttle</b> †19 litres (4.2 UK gal) <b>Powershift</b> †19 litres (4.2 UK gal)	JCB Special Transmission Fluid JCB Special Transmission Fluid	Ford ESN-M2C 33G Ford ESN-M2C 33G
<b>Transfer box</b>	1.3 litres (0.3 UK gal)	JCB HD 90 Gear Oil	API-GL-5, MIL-L-2105C
<b>Axles - Hurth (406)</b> Differential Housing Hubs (Individual)	5.0 litres (1.1 UK gal) 0.2 litres (0.04 UK gal)	JCB Special Gear Oil JCB Special Gear Oil	Ford ESE-M2C 86B Ford ESE-M2C 86B
<b>Axles - JCB</b>	<b>406</b> 5.0 litres (1.1 UK gal) <b>408</b> 16 litres (3.6 UK gal)	JCB Special Gear Oil JCB Special Gear Oil	Ford ESE-M2C 86B Ford ESE-M2C 86B
<b>Hydraulic System</b> Up to 38° C Above 38° C	<b>406</b> 59 litres (13.2 UK gal) <b>408</b> 63 litres (14.1 UK gal)	JCB Special Hydraulic Fluid JCB High Performance Hydraulic Fluid	ISO 32 ISO 46
<b>Brake System</b>	1.2 litres (0.27 UK gal)	JCB Light Hydraulic Fluid  <b>CAUTION: DO NOT USE ORDINARY BRAKE FLUID</b>	ISO 15
<b>Cooling System</b>	<b>406</b> 12.5 litres (2.8 UK gal) <b>408</b> 15.5 litres (3.5 UK gal)	Water/Anti-freeze (see Coolant mixture)	ASTM D3306-74
<b>Fuel System</b>	<b>406</b> 65 litres (14.5 UK gal) <b>408</b> 90 litres (20.2 UK gal)	Diesel Oil (see Types of Fuel)	ASTM D975-66T Nos. 1D, 2D.
<b>Grease Points</b>		JCB Special MPL Grease	Lithium based, No. 2 consistency

**Note:** The total hydraulic system capacity depends on the equipment being used. Fill the system with all rams closed and watch the level indicator.

† The figure quoted is TOTAL system capacity. Use the 'MAX' and 'MIN' marks on the dipstick when refilling the system.

## FLUIDS, CAPACITIES AND LUBRICANTS

**Note:** New engines DO NOT require a running-in period. The engine/machine should be used in a normal work cycle immediately; glazing of the piston cylinder bores, resulting in excessive oil consumption, could occur if the engine is gently run-in. Under no circumstances should the engine be allowed to idle for extended periods; (e.g. warming up without load). Engines of new machines are filled at the factory with JCB 10W/30 Multigrade oil. This oil should be drained after the first 100 hours operation and the engine filled with the appropriate recommended grade as shown in the lubrication chart. JCB 10W/30 Multigrade should also be used for the first 100 hours operation whenever a new or reconditioned engine is fitted to the machine. After the first 100 hours operation, it is essential that the 10W/30 oil is replaced by the lubricant recommended below.

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<b>Engine Oil</b> -18 to 0° C -10 to 50° C	10.7 litres (2.4 UK gal)	JCB Torque Converter Fluid JCB 15W/40 Multigrade	API CD MIL-L-2104C
<b>Gearbox</b>	<b>Syncro Shuttle</b> †19 litres (4.2 UK gal)	JCB Special Transmission Fluid	Ford ESN-M2C 33G
	<b>Powershift</b> †13 litres (2.9 UK gal)	JCB Special Transmission Fluid	Ford ESN-M2C 33G
<b>Transfer box</b>	1.3 litres (0.3 UK gal)	JCB HD 90 Gear Oil	API-GL-5, MIL-L-2105C
<b>Axles</b>	<b>407</b> 5.0 litres (1.1 UK gal)	JCB Special Gear Oil	Ford ESE-M2C 86B
	<b>409</b> 16 litres (3.6 UK gal)	JCB Special Gear Oil	Ford ESE-M2C 86B
<b>Hydraulic System</b> Up to 38° C Above 38° C	63 litres (14.1 UK gal)	JCB Special Hydraulic Fluid JCB High Performance Hydraulic Fluid	ISO 32 ISO 46
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<b>Transfer box</b>	1.3 litres (0.3 UK gal)	JCB HD 90 Gear Oil	API-GL-5, MIL-L-2105C
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<b>Grease Points</b>		JCB Special MPL Grease	Lithium based, No. 2 consistency
<b>Wear Pad Runways</b>		JCB Waxoyl	

**Note:** The total hydraulic system capacity depends on the equipment being used. Fill the system with all rams closed and watch the level indicator.

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**TORQUE SETTINGS**

Use only where no torque setting is specified in the text. Values are for dry threads and may be within three per cent of the figures stated. For lubricated threads the values should be REDUCED by one third.

**UNF Grade 'S' Bolts**

Bolt Size in	Hexagon (A/F) (mm)	Hexagon (A/F) in	Torque Settings		
			Nm	kgf m	lbf ft
1/4	(6.3)	7/16	14	1.4	10
5/16	(7.9)	1/2	28	2.8	20
3/8	(9.5)	9/16	49	5.0	36
7/16	(11.1)	5/8	78	8.0	58
1/2	(12.7)	3/4	117	12.0	87
9/16	(14.3)	1/16	170	17.3	125
5/8	(15.9)	15/16	238	24.3	175
3/4	(19.0)	1 1/8	407	41.5	300
7/8	(22.2)	15/16	650	66.3	480
1	(25.4)	1 1/2	970	99.0	715
1 1/4	(31.7)	1 7/8	1940	198.0	1430
1 1/2	(38.1)	2 1/4	3390	345.0	2500

**Metric Grade 8.8 Bolts**

Bolt Size	(mm)	Hexagon (A/F) mm	Torque Settings		
			Nm	kgf m	lbf ft
M5	(5)	8	7	0.7	5
M6	(6)	10	12	1.2	9
M8	(8)	13	28	3.0	21
M10	(10)	17	56	5.7	42
M12	(12)	19	98	10	72
M16	(16)	24	244	25	180
M20	(20)	30	476	48	352
M24	(24)	36	822	84	607
M30	(30)	46	1633	166	1205
M36	(36)	55	2854	291	2105

**Note:** All bolts used on JCB machines are high tensile and must not be replaced by bolts of a lesser tensile specification.



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

The schedules are based on machine running hours. Keep a regular check on the hourmeter readings. Do not use a machine which is due for a service. Make sure any defects found during the regular maintenance checks are rectified immediately.

<b>Pre-start Cold Checks</b>								
<b>Service Points and Fluid Levels</b>		<b>Operation</b>	<b>10 Hr</b>	<b>50 Hr</b>	<b>First 100 Hr</b>	<b>500 Hr</b>	<b>1000 Hr</b>	<b>2000 Hr</b>
<b>ENGINE</b>								
Generally for Leaks		- Check	<input type="checkbox"/>					
Oil level		- Check	<input type="checkbox"/>		<input type="checkbox"/>			
Oil and Filter		† - Change			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fuel Filter		- Drain		<input type="checkbox"/>				
Fuel Filter		† - Change			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coolant Level and Antifreeze Strength		- Check	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air Cleaner Dust Valve		- Clean					<input type="checkbox"/>	<input type="checkbox"/>
Air Cleaner Outer Element		- Change					<input type="checkbox"/>	<input type="checkbox"/>
Air Cleaner Inner Element		- Change						<input type="checkbox"/>
Coolant		- Change						<input type="checkbox"/>
Fuel Lift Pump		- Clean			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fuel Sedimenter		- Drain		<input type="checkbox"/>	<input type="checkbox"/>			
Fan Belt Tension/Condition		- Check		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Valve Clearances		- Check and Adjust						<input type="checkbox"/>
Engine Mount Security		- Check			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fuel System for Leaks and Contamination		- Check	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>TRANSMISSION AND AXLES</b>								
Hub Oil Levels		- Check			<input type="checkbox"/>			
Hub Oil		†† - Change					<input type="checkbox"/>	<input type="checkbox"/>
Oil Filter		- Change			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drive Axle(s) Oil Level		- Check			<input type="checkbox"/>			
Drive Axle(s) Oil		†† - Change					<input type="checkbox"/>	<input type="checkbox"/>
Transmission Oil Level		- Check			<input type="checkbox"/>	<input type="checkbox"/>		
Transmission Oil		- Change					<input type="checkbox"/>	<input type="checkbox"/>
Transmission Strainer		- Clean					<input type="checkbox"/>	<input type="checkbox"/>
Transfer Gearbox Oil Level		- Check				<input type="checkbox"/>		
Transfer Gearbox Oil		- Change			<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Axle Breather(s)		- Clean			<input type="checkbox"/>			
Drive shaft/Prop. Shaft Security		- Check			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drive Shaft/Prop. Shaft		- Lubricate			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Axle Mount Security		- Check			<input type="checkbox"/>			
Transmission Mount Security		- Check			<input type="checkbox"/>			
<b>HYDRAULICS</b>								
* Oil Filter		- Change			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Oil		- Sample/Change						<input type="checkbox"/>
Suction Strainer		- Clean						<input type="checkbox"/>
Oil Level		- Check	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Hoses - Damage or Leaks		- Check		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rams - Condition		- Check			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pipework - Damage or Leaks		- Check		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Pre-start Cold Checks Service Points and Fluid Levels		10 Hr	50 Hr	First 100 Hr	500 Hr	1000 Hr	2000 Hr
<b>BRAKES</b>							
Parking Brake	- Check and Adjust	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Brake System Fluid Level	- Check	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Brake System Fluid	- Change						<input type="checkbox"/>
<b>ELECTRICS</b>							
Battery Electrolyte Level	- Check			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wiring for Chaffing	- Check		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Battery Terminals for Condition and Tightness	- Check		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>BODY AND FRAMEWORK</b>							
All Articulation and Steer Pivots	- Grease		<input type="checkbox"/>	<input type="checkbox"/>			
All Loader Pivots	- Grease		<input type="checkbox"/>	<input type="checkbox"/>			
All Pivot Pins	- Check and Grease		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Windscreen Washer Fluid Level	- Check	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* ROPS/FOPS Structures	- Check				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Boom Wear Pads	* - Check and Inspect				<input type="checkbox"/>		
<b>ATTACHMENTS</b>							
Optional Equipment (as required)	- Check			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Functional Test and Final Inspection		10 Hr	50 Hr	First 100 Hr	500 Hr	1000 Hr	2000 Hr
<b>ENGINE</b>							
Idle Speed	- Check and Adjust			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Maximum Governed speed	- Check and Adjust			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Torque Converter Stall Speed	- Check			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exhaust Smoke	- Check		<input type="checkbox"/>	<input type="checkbox"/>			
Exhaust System Security	- Check			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air Inlet System Security	- Check			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coolant System for Leaks	- Check		<input type="checkbox"/>	<input type="checkbox"/>			
Throttle System and Control Cable	- Check		<input type="checkbox"/>	<input type="checkbox"/>			
Operation of Stop Control/E.S.O.S.	- Check		<input type="checkbox"/>	<input type="checkbox"/>			
<b>TRANSMISSION AND AXLES</b>							
Torque Converter Mainline Pressure	- Check			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Clutch Pack Pressures	- Check			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tyre pressure and condition	- Check			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wheel Nut Torque	- Check			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Steering Operation	- Check		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Neutral Start Operation	- Check			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Forward/Reverse Selection/Operation	- Check			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gear Change and Selection	- Check			<input type="checkbox"/>			
Clutch Disconnect	- Check			<input type="checkbox"/>			
Reverse Alarm (if fitted)	- Check			<input type="checkbox"/>			
Oil Cooler and Pipework	- Check			<input type="checkbox"/>			

Functional Test and Final Inspection	Operation	10 Hr	50 Hr	First 100 Hr	500 Hr	1000 Hr	2000 Hr
<b>HYDRAULICS</b>							
MRV Pressure	* - Check and Adjust			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All ARV's	* - Check and Adjust			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Auxiliary Circuit	* - Check and Adjust			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Steer Circuit MRV	* - Check and Adjust			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Operation of All Services	- Check		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Loader Valve and Controls	- Check		<input type="checkbox"/>	<input type="checkbox"/>			
<b>BRAKES</b>							
Foot Brake Operation	- Check		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>ELECTRICS</b>							
All Electrics	- Operate		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Starter Motor	- Check			<input type="checkbox"/>			
Alternator	- Check			<input type="checkbox"/>			
Warning Lights	- Check			<input type="checkbox"/>			
Lights and Instruments	- Check			<input type="checkbox"/>			
Wipers	- Check			<input type="checkbox"/>			
Heater	- Check			<input type="checkbox"/>			
Other (give details)	- Check			<input type="checkbox"/>			
<b>PAINTWORK</b>							
Condition	- Check			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>CAB</b>							
Glazing for Correct Fit	- Check			<input type="checkbox"/>			
Doors and Hinges	- Check			<input type="checkbox"/>			
Locks and Keys	- Check			<input type="checkbox"/>			
Seat/Seat Belts	- Check	<input type="checkbox"/>		<input type="checkbox"/>			
<b>ATTACHMENTS</b>							
Attachment Circuit Pressures	- Check			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Operation	- Check		<input type="checkbox"/>	<input type="checkbox"/>			
<b>REGISTRATION/CERTIFICATION</b>							
Form 2530 (F91) (UK Requirement) - Lift	- Check			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Form 2531 (F96/F97) (UK Requirement)	- Check			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SWL Stickers (UK)	- Renew as Required			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Note:** Operation must be carried out at the end of each set period, ie. The 10 Hour operations must be carried out after **every** 10 Hours.

**Note:** The First 100 Hour Operations are carried out after the initial 100 hours only.

**Note ††:** When operating in regions where ambient temperatures exceed 32° C (90° F), change at 500 Hours.

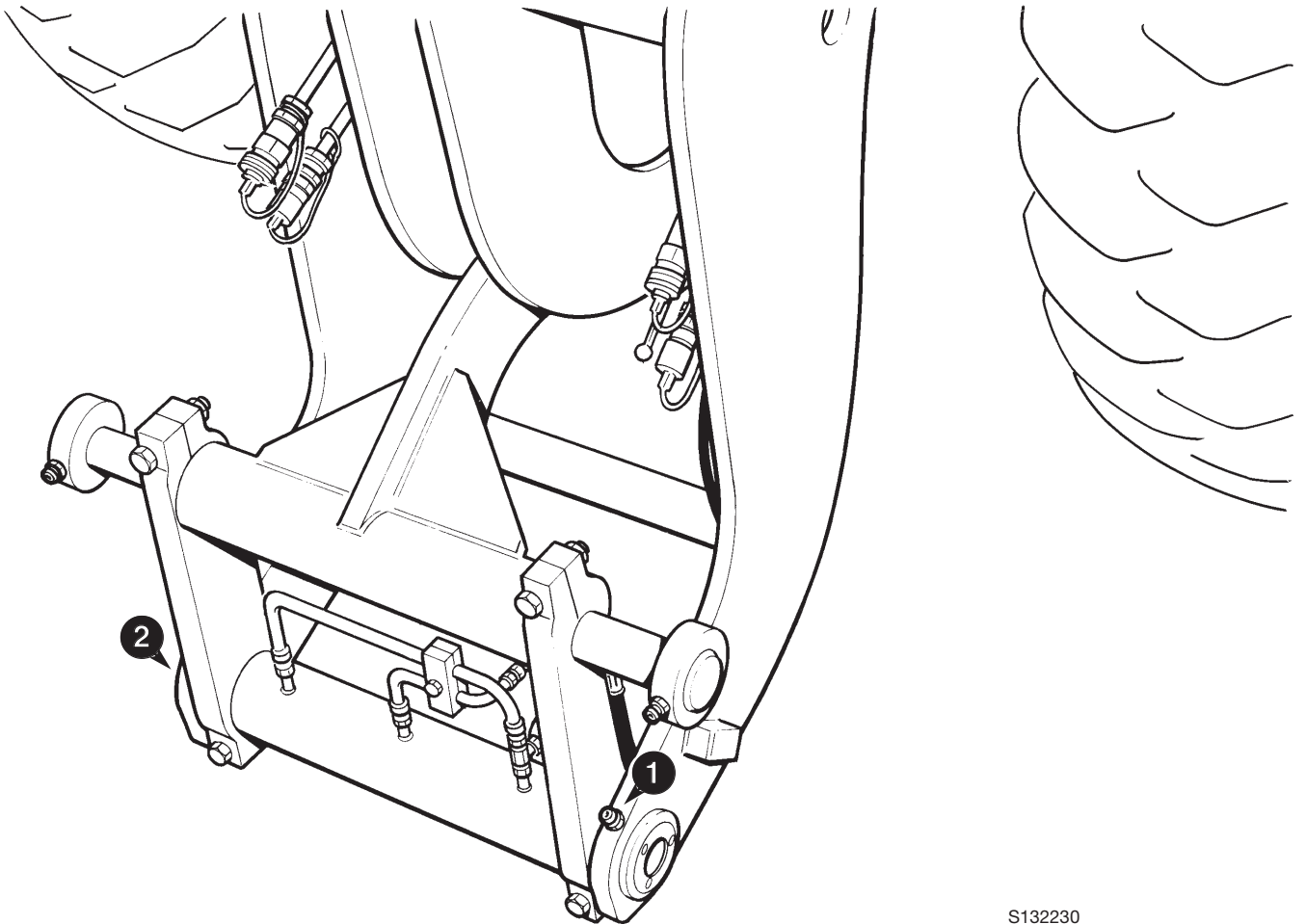
**Note †:** When operating in extreme conditions, change at 250 Hours.

**Note:** We recommend that the services marked with an \* are carried out by a recognised JCB Distributor.

**GREASING****Shovel Pivot Pins**

Total of 2 grease points.

Normally two strokes of the gun should be sufficient. Stop greasing when fresh grease appears at the joint.



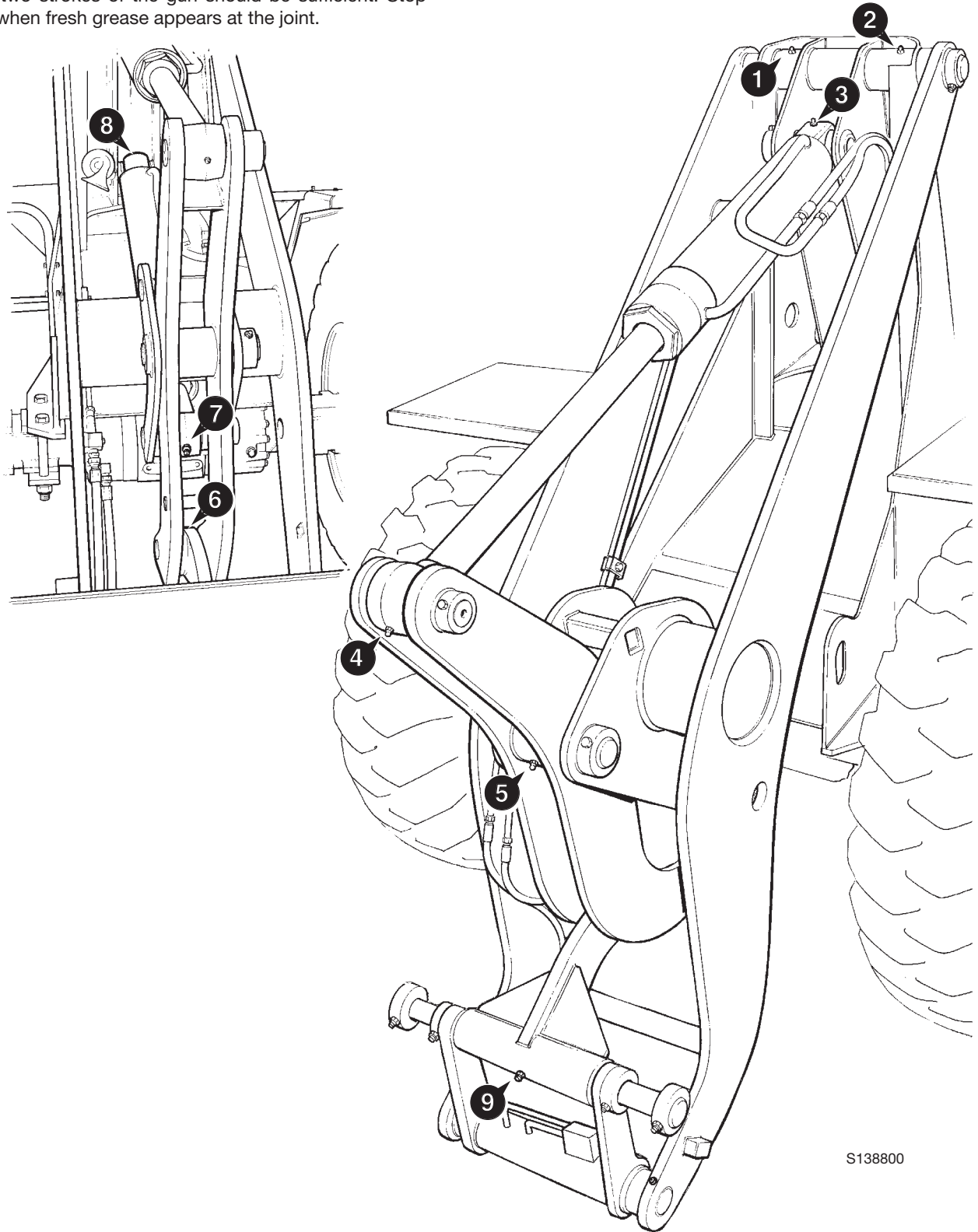
S132230

**GREASING**

**Loader End**

Total of 9 grease points.

Normally two strokes of the gun should be sufficient. Stop greasing when fresh grease appears at the joint.



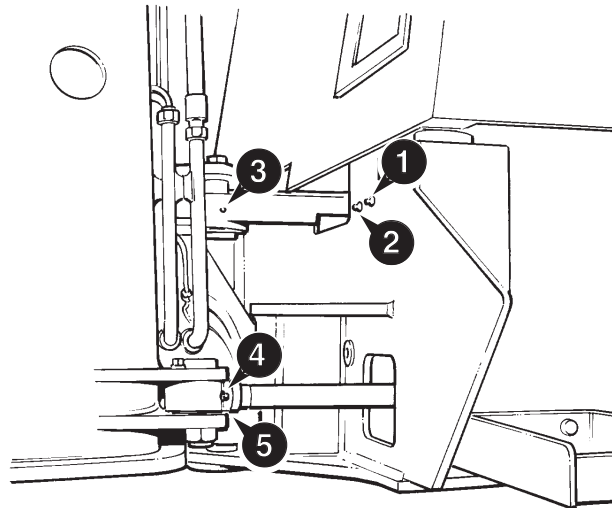
S101330

S138800

**GREASING**

**Centre Pivot and Steering Ram**

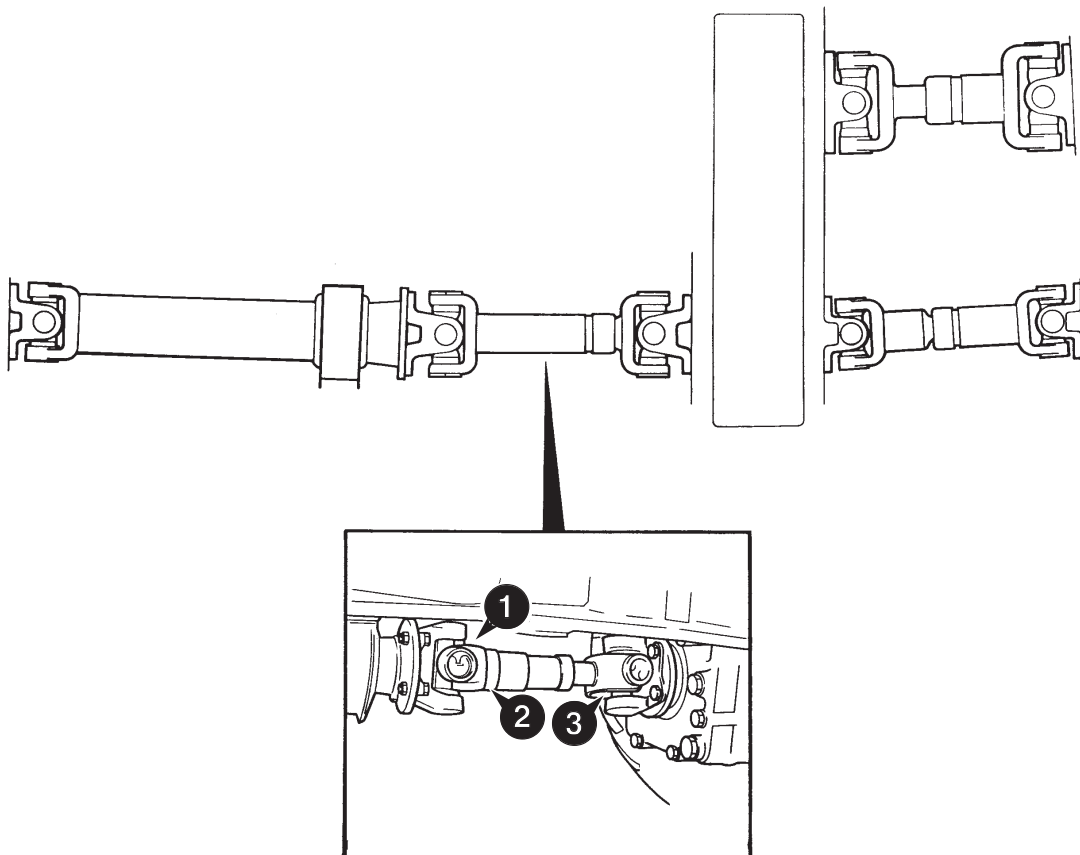
Total of 5 grease points.



S101340

**Intermediate Propshaft**

Total of 3 grease points.



S132240

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