Service Manual

Side Engine Loadalls

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Fluids, Lubricants and Capacities

Table 2.

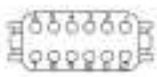
ITEM	CAPACITY Litres (UK Gal)	FLUID/LUBRICANT	JCB Part Number	Container Size[1]
Fuel Tank	146 (32.1)	Diesel Oil (Refer to Fuels)	-	-
Engine (Oil)[2]		JCB Engine Oil EP 15W40	4001/1805	20 litres
- MIN	12.5 (2.75)	-10°C to +50°C (14°F to 122°F)		
- MAX	15 (3.3)	JCB Cold Climate Engine Oil EP 5W40	4001/2705	20 litres
		-20°C to +50°C (-4°F to 122°F)		
Engine (Coolant)[2]	22 (4.4)	JCB Antifreeze HP/Coolant + Water (Refer to ***Coolant Mixtures***)	4006/1120	20 litres
Transmission		JCB Transmission Fluid EP 10W[4]	4000/2505	20 litres
Machines with SE type engine and 4-speed gearbox only.		-32°C to 40°C (-25°F to 104°F)		
- Wet fill	17 (3.7)	JCB Transmission Fluid EP SAE 30	4000/2605	20 litres
- Dry fill	19 (4.2)	-5°C to 46°C (23°F to 115°F)		
Transmission		JCB Transmission Fluid EP 10W	4000/2505	20 litres
All other machines		-32°C to 40°C (-25°F to 104°F)		
- Wet fill	21 (4.6)	JCB Transmission Fluid EP SAE 30	4000/2605	20 litres
- Dry fill	23 (5.0)	-5°C to 46°C (23°F to 115°F)		
Front Axle Housing				
550-80	14.5 (3.2)	JCB Gear Oil LS Plus	4000/3905	20 litres
Other machines	17.7 (4.7)	JCB Gear Oil HP Plus	4000/2205[5]	20 litres
Hubs (X2)				
550-80 machines	1.9 (0.42)	JCB Gear Oil LS Plus	4000/3905	20 litres
Other machines	1.9 (0.5)	JCB Gear Oil HP Plus	4000/2205[5]	20 litres
Rear Axle Housing				
531-70, 533-105, 535-95, 536-60, 536-70, 541-70	10 (2.2)	JCB Gear Oil HP Plus	4000/2205[5]	20 litres
540-140, 540-170	19 (4.2)	JCB Gear Oil HP Plus	4000/2205[5]	20 litres
535-125 HiViz, 535-140 HiViz	17.7 (3.9)	JCB Gear Oil HP Plus	4000/2205[5]	20 litres
550-80	13.5 (3.0)	JCB Gear Oil LS Plus	4000/3905	20 litres
Hubs (x2)				
550-80 machines	1.9 (0.42)	JCB Gear Oil LS Plus	4000/3905	20 litres
Other machines	2 (0.43)	JCB Gear Oil HP Plus	4000/2205[5]	20 litres
Brake System[6]		JCB Hydraulic Fluid HP15[7]	4002/0503	5 Litres
Hydraulic Tank[8]		JCB Hydraulic Fluid HP		

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Electrical Connectors

The table shows the harness connectors that connect to the electrical devices. The connectors are shown looking at the mating face when disconnected. Remember that the drawings show the harness connectors NOT the device connectors.

Use the table and the relevant electrical schematic to identify the pins in the harness connectors. Continuity checks on the harness wires can be carried out using a multi-meter. Do not touch ECU connector pins. Do not use a multi-meter on ECU connector pins.

Device	Description	Location	Harness Connector
-000	Earth Points	Refer to ***Section C - Electrical Harness SYSTEM.*** ⇨ *Related Topics (F23-2)*	
+005	'W' Terminal	Located on the rear of the alternator	
1013	Column Switch L/H	A cable and connector connects to the panel harness at the steering column below the steering wheel.	
2000	Relays	Refer to ***Section C - Fuses and Relays.*** ⇨ *Related Topics (F23-2)*	
4004	Drive Controller ECU	Located inside the right of the instrument panel - behind the load chart mounting.	
7028	Joystick Connector B	Below the Joystick assembly	
7084	Not Neutral Diode A	TBA	TBA
7085	Not Neutral Diode B	TBA	TBA
7039	Resistor 1	TBA	
8000	Harness interconnections	Refer to ***Section C - Electrical Harness SYSTEM.*** ⇨ *Related Topics (F23-2)*	
9000	Fuse boxes	Refer to ***Section C - Fuses and Relays.*** ⇨ *Related Topics (F23-2)*	

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Fault Code Display

If the ECU receives electronic fault codes or electrical signals to be interpreted as faults the ECU activates visual and, when applicable, audible warnings. Fault codes are also logged by the ECU. Refer to the ***Fault Code SYSTEM*** topic. ⇨ *Related Topics (M2-2)*

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HVCS Schematic and Component Locations

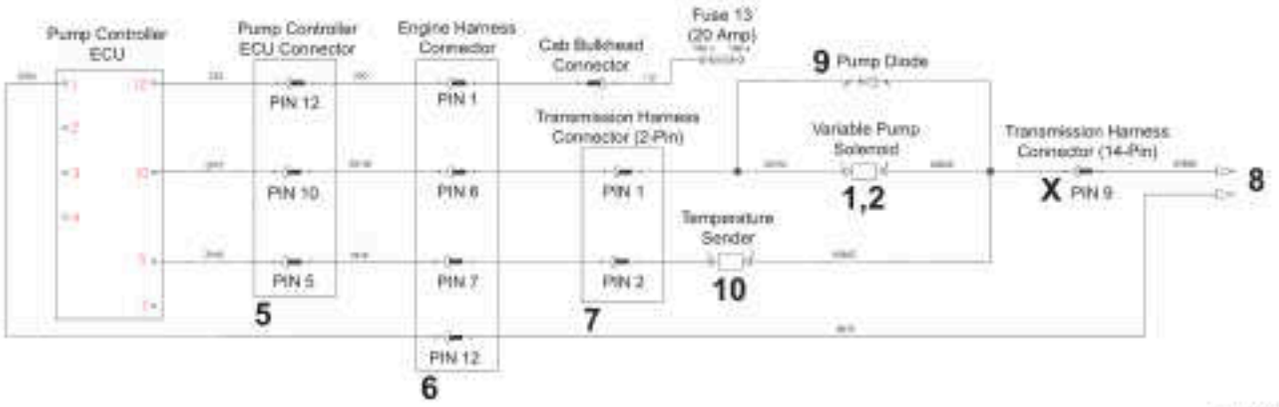


Fig 27. Schematic Drawing

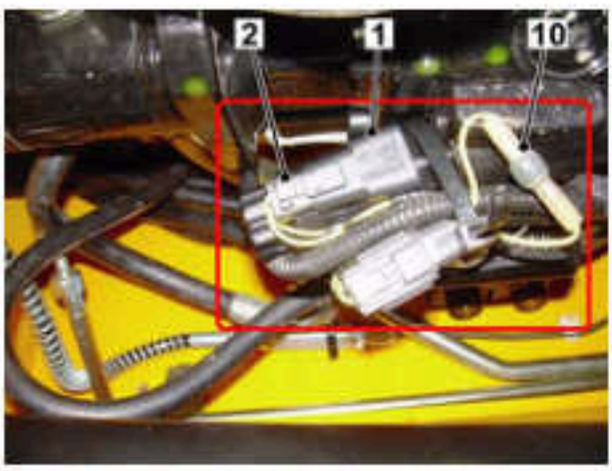


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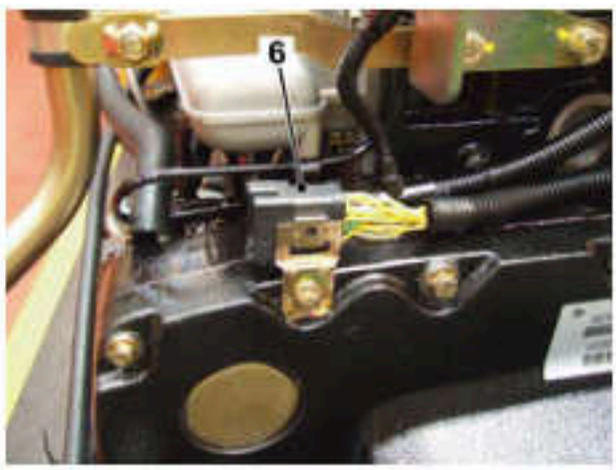


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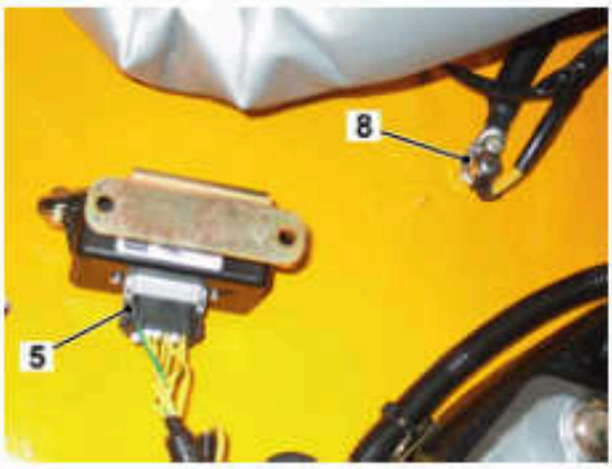


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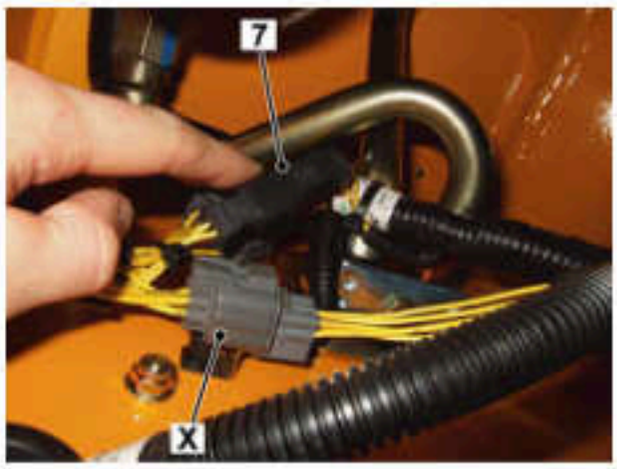


Fig 31.

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HVCS Schematic and Component Locations

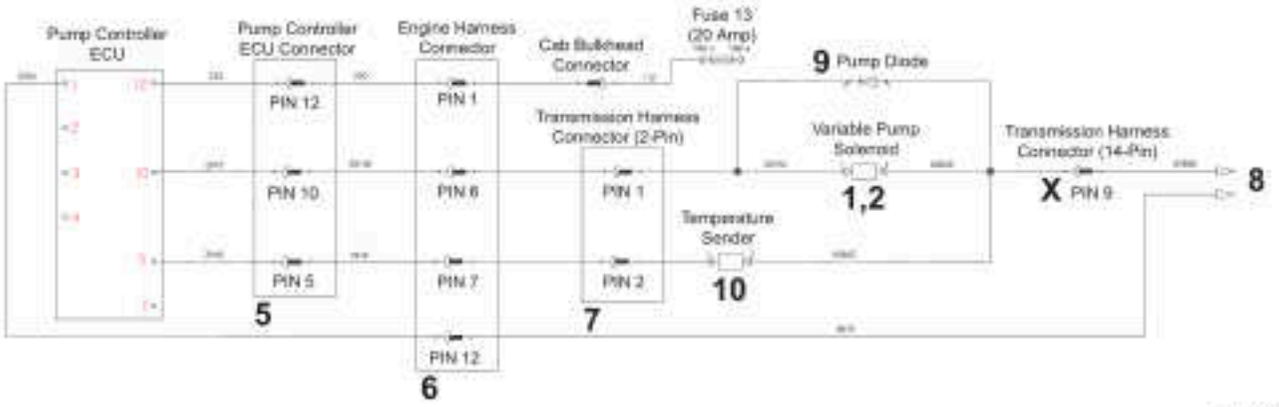


Fig 26. Schematic Drawing

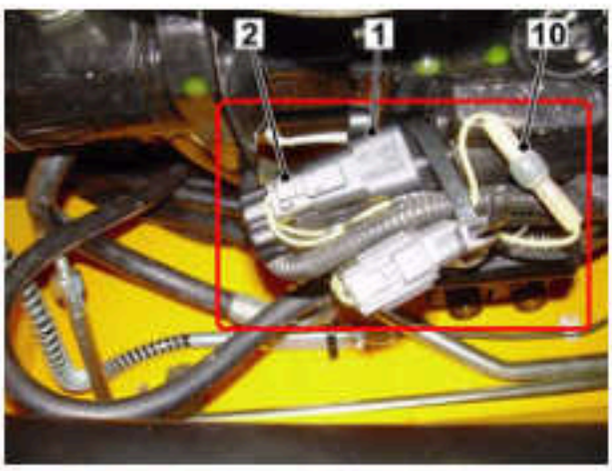


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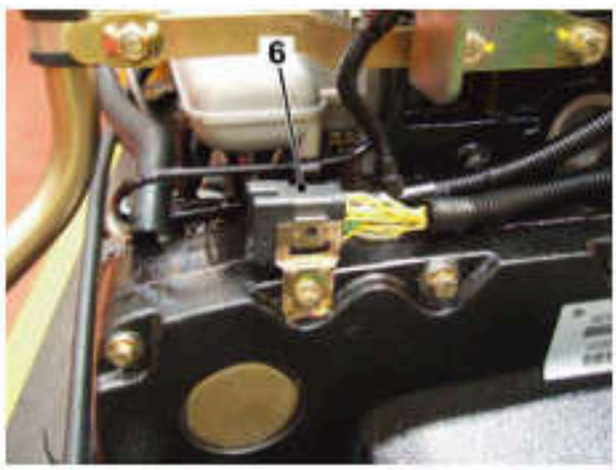


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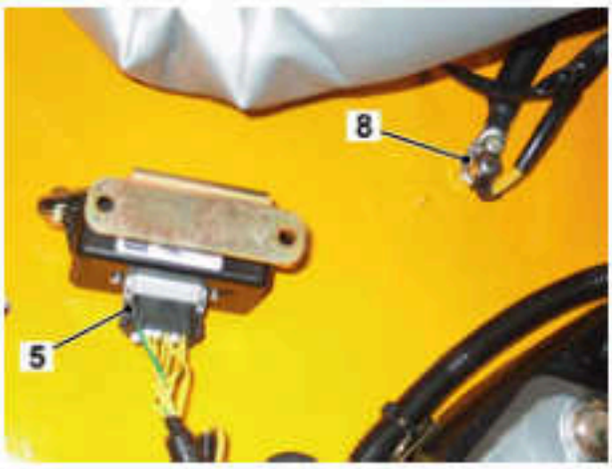


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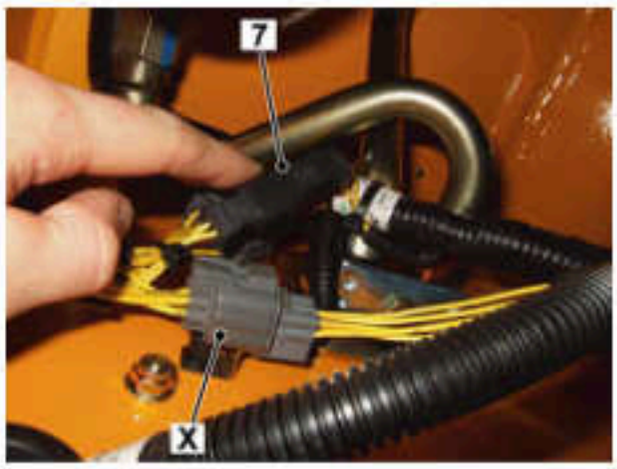


Fig 30.

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