Service Manual

Side Engine Loadalls

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AA	Cab/Panel Harness Connector
AB	Heated Seat
AC	Air Suspension Seat
AD	Rear Wiper
AE	Worklight LH
AF	Earth
AG	Beacon
AH	Worklight RH
AJ	Roof Wiper
AK1	Interior Light (+ve)
AK2	Interior Light (-ve)
AL	Park Brake Switch

Table 26. Engine Harness

Key to Connectors:	
E001	Chassis Harness Connector
E002	Starter Solenoid
E003	Charge Lead
E004	Charge Lead
E005	'W' Terminal
E006	D+
E007	Cold Start Solenoid
E008	Engine Shut-Off Solenoid (ESOS)
E009	Air Conditioning Compressor
E010	Engine Oil Pressure Switch
E011	Cold Start Temperature Switch
E012	Engine Coolant Temperature Switch
E013	Binary Pressure Switch (Air Conditioning)
E014	Binary Pressure Switch (Air Conditioning)
E015	Transmission Temperature Switch

Table 27. Transmission Harness

Key to Connectors:	
T001	Chassis Harness Connector
T002	Speed Sensor
T003	Transmission Oil Pressure Switch
T004	Reverse Low Solenoid
T005	Reverse High Solenoid
T006	Mainshaft Solenoid
T007	Layshaft Solenoid
T008	Forward Low Solenoid
T009	Forward High Solenoid
T010	4 Wheel Drive Solenoid

Table 28. Stabiliser Harness

Key to Connectors:	
SH001	Mainframe Connector
SH002	LH Stab Transducer
SH003	RH Stab Transducer

Table 29. Stabiliser Link Harness

Key to Connectors:	
S001	Pressure Switch
S002	Stabiliser Harness Connector

Table 30. Valve Block Harness

Key to Connectors:	
V001	Chassis Connector
V002	Boom Lower Solenoid
V003	Boom Raise Solenoid
V004	Retract Solenoid
V005	Extend Solenoid
V006	Dump Solenoid
V007	Crowd Solenoid
V008	Aux B Solenoid
V009	Aux A Solenoid

L001	Right Stab Lower Solenoid
L002	Right Stab Raise Solenoid
L003	Left Stab Lower Solenoid
L004	Left Stab Raise Solenoid
L005	Additional Connector

Table 31. Boom Harness

Key to Connectors:	
L001	Work Lamp Connector
L002	Retract Proximity Switch
L003	Cable Reel (Man Platform Option)
L004	Chassis Harness Connector
L005	Chassis Harness Connector 2
L006	Boom Angle Sensor

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Measuring Spool Displacement (Manual Spools)

Note: *This procedure is only applicable to manually operated spools.*

⚠ WARNING

Communications

Bad communications can cause accidents. Keep people around you informed of what you will be doing. If you will be working with other people, make sure any hand signals that may be used are understood by everybody. Work sites can be noisy, do not rely on spoken commands.

INT-2-2-3

Note: *Two people are required to complete the procedure. Person 1 should be sat in the operator cab, whilst Person 2 requires access to the control valve assembly.*

1 Raise the boom and fit the safety strut, see ***Section 2 - General Procedures.*** ⇨ *Related Topics (E20-2)*

2 Carry out General Safety procedures, see ***Section 2 - General Procedures.*** ⇨ *Related Topics (E20-2)*

3 Vent the hydraulic pressure, see ***Section 2 - General Procedures.*** ⇨ *Related Topics (E20-2)*

4 Check spool displacement **A**.

- **a** Person 2 - Using the control lever, move and hold the spool in position **1**.
- **b** Person 1 - Measure spool displacement **A**.

5 Check spool displacement **B**.

- **a** Person 2 - Using the control lever, move and hold the spool in position **3**.
- **b** Person 1 - Measure spool displacement **B**.

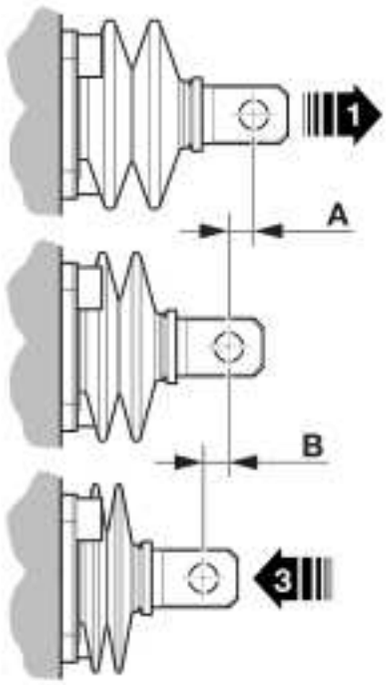


Fig 6.

6 Repeat the procedure for each manual spool as necessary.

Table 3. Spool Displacement

Displacement:	Measurement:
A	8mm +/- 1mm (0.32in +/- 0.04in)
B	8mm +/- 1mm (0.32in +/- 0.04in)

Adjustment

Spool displacement is influenced by the control lever linkage. Check, adjust and replace if necessary.

If sufficient adjustment can not be achieved it may be necessary to replace the spool assembly. ⇨ *Related Topics (E20-2)*

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Fault Code	Description	Warning Displays		Severity
RAS diagnostic LED blink code	RAS system fault warning	MIL lamp activated (Amber). Buzzer activated for 1 second. The RAS fault LED flashes a fault code. Refer to ***Section B, RAS SYSTEM***. Fault logged.		SERVICE
RAS diagnostic LED blink code	RAS system critical fault	MIL lamp activated (Red). Continuous buzzer activated. The RAS fault LED flashes a fault code. Refer to ***Section B, RAS SYSTEM***. Fault logged.		STOP NOW
RAS diagnostic LED blink code	Control valve spool switch critical fault	MIL lamp activated (Red). Continuous buzzer activated. Hydraulic isolation lamp activated. The RAS fault LED flashes a fault code. Refer to ***Section B, RAS SYSTEM***. Fault logged.		STOP NOW
Z000	Error logs erased		Fault Logged	
Z111	Error logs full		Fault Logged	
Z200	Vehicle serviced		Fault Logged	

(1) The engine coolant warning light in the cluster in front of the steering wheel is activated by a switch in the temperature sender unit. A buzzer is also activated. These warning devices are not controlled by the systems ECU.

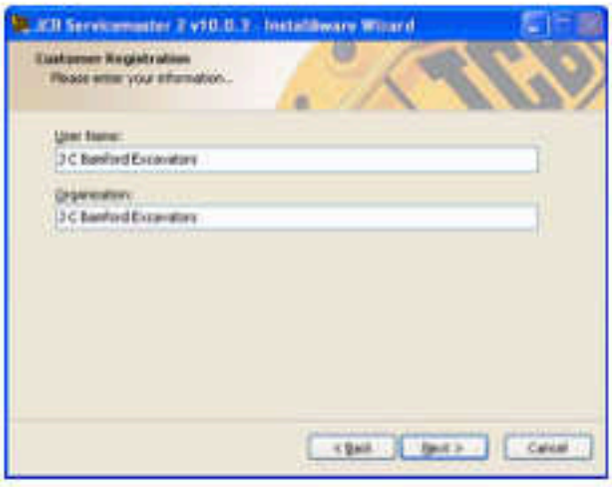
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T040310-5

Fig 7.

6 The next screen requires you to put in your username and organization. Once inserted, click next.



T040310-6

Fig 8.

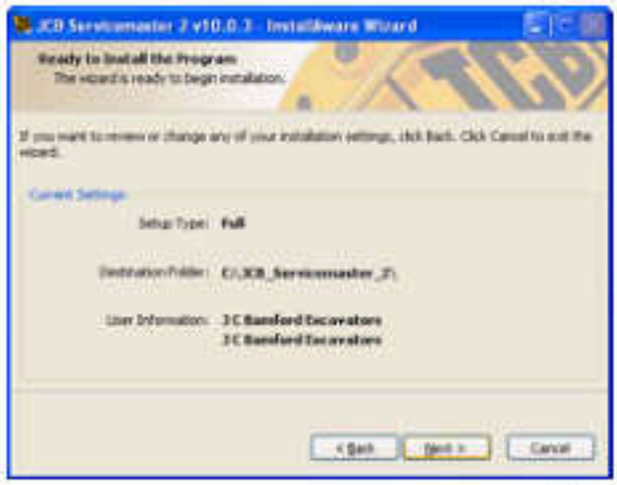
7 On the next screen, please choose "Complete" to do the full install to your laptop.



T040310-7

Fig 9.

8 The next screen shows you where ServiceMaster will be installed to on your computer. Click next to begin the install.



T040310-7

Fig 10.

9 During the install you may get a number of errors indicating language files for TransLink haven't been found. Please click Ignore, these files will be installed later via WebUpdate.

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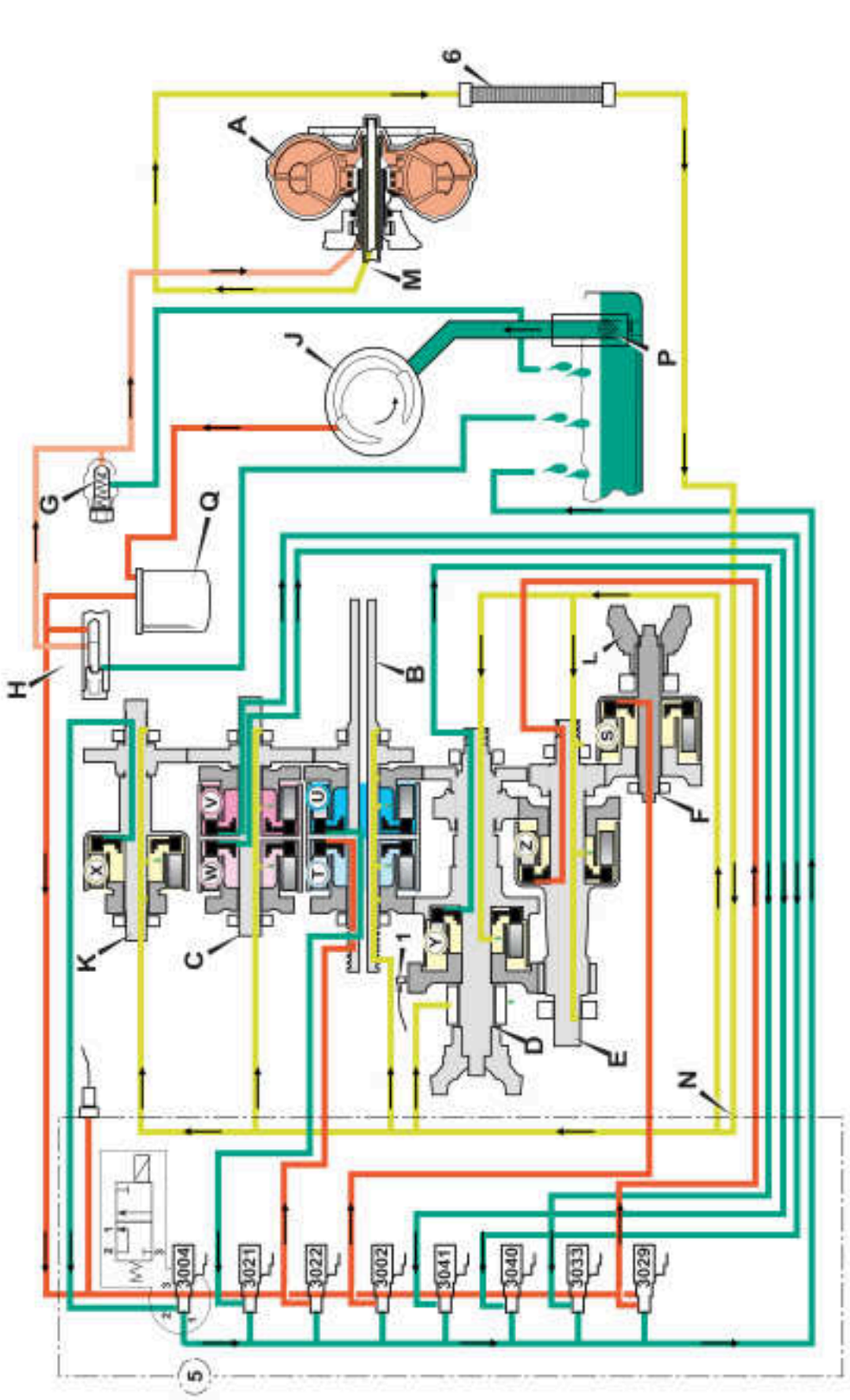


Fig 2. Hydraulic Operation

⇨ Table 2. Hydraulic Operation - Key (F8-7)

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