SERVICE MANUAL

LOADALL (ROUGH TERRAIN VARIABLE REACH TRUCK)

526-56, 531-70, 535-95, 536-60, 536-70, 536-70LP, 541-70, 550-80, 560-80

EN - 9813/7600 - ISSUE 3 - 03/2018

This manual contains original instructions, verified by the manufacturer (or their authorized representative).

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Foreword

The Operator's Manual

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You and others can be killed or seriously injured if you operate or maintain the machine without first studying the Operator's Manual. You must understand and follow the instructions in the Operator's Manual. If you do not understand anything, ask your employer or JCB dealer to explain it.

Do not operate the machine without an Operator's Manual, or if there is anything on the machine you do not understand.

Treat the Operator's Manual as part of the machine. Keep it clean and in good condition. Replace the Operator's Manual immediately if it is lost, damaged or becomes unreadable.

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(For: 550-80 [5AW], 550-80 [5UW], 560-80 [5AY], 560-80 [5UY])

Table 221. Service Brakes- Power Brake System

Type	Single circuit, oil-immersed multi-plate disc.
Actuation	Hydraulic
Location	Front and Rear Axle, centre mounted (2 brake packs per axle).
Charge valve cut in pressure	80bar (1,159.4psi)
Charge valve cut out pressure	115bar (1,666.7psi)
Friction plates (6 per brake pack):	
Outside diameter	254mm
Inside diameter	176mm
Facing area (per plate)	0.02634m²
Annular Brake piston Area	0.006597m²

Table 222. Park Brake

Type	Oil-immersed multi-plate brake pack.
Actuation	Cable
Location	Gearbox (acts through drive to front axle)

(For: HM560 Variable Transmission)

Table 223. Service Brakes- Power Brake System (JCB Axle)

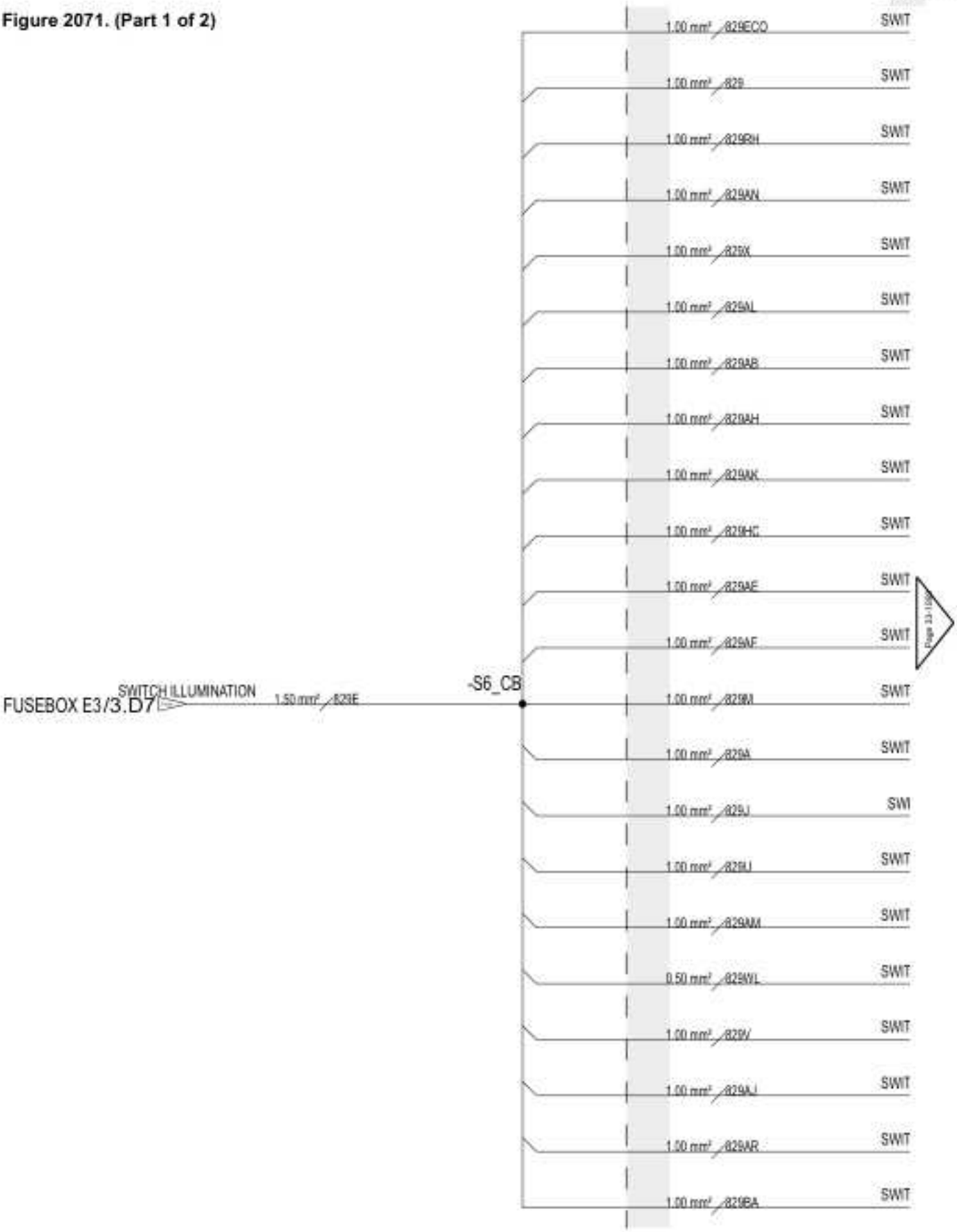
Type	Single circuit, oil-immersed multi-plate disc.
Actuation	Hydraulic
Location	Front axle, centre mounted.
Friction plates (per side)	5
Outside diameter	222mm
Inside diameter	160mm
Friction plate thickness (new)	3.76–3.92mm
Counter plate thickness (new)	3.8–3.9mm

Table 224. Park Brake

Type	Oil-immersed multi-plate brake pack.
Actuation	Cable
Location	Gearbox (acts through drive to front axle)

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Figure 2071. (Part 1 of 2)



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Fault Code	Fault Description	Fault Severity
P007A-00	TMAP (Temperature Manifold Air Pressure) (Intake Manifold 1 Temp) Temperature Element Sensor Fault (ADC)	Service
P007C-23	TMAP (Intake Manifold 1 Temp) Temperature Element Sensor Low Fault	Service
P007D-24	TMAP (Intake Manifold 1 Temp) Temperature Element Sensor High Fault	Service
P007E-2F	TMAP (Intake Manifold 1 Temp) Temperature Element Sensor Noise Fault	Service
P0087-00	Rail Pressure Control Error Positive	Service
P0087-00	Pressure Limiter Open	Critical
P0087-00	Common Rail Pressure Fall (No Feed)	Critical
P0087-00	RPC Variable Limit Capacity (Vlc) Torque Reduction Above Its Threshold	Service
P0087-00	RPC Variable Limit Capacity (Vlc) Torque Reduction Clamped	Critical
P0087-23	Rail Pressure Build Low Fault	Critical
P0088-00	Rail Pressure Control Error During HPV Control (Over Max Calibrated System Pressure)	Service
P0089-00	Rail Pressure Control Error	Critical
P0090-13	HPV Driver In ECU Fault Detected	Service
P0091-11	PCV 1 Drive System Open Circuit Or Grand Short Circuit	Service
P0091-23	Check HPV Regulation Control Trim Low	Service
P0092-12	HPV Driver In ECU Fault Detected	Critical
P0092-24	Check HPV Regulation Control Trim High.	Service
P0095-00	Intake Manifold Temperature (M2) Signal Sensor ADC Fault (Intake Manifold 2 Temp)	Service
P0096-2F	Intake Manifold Temperature Sensor (M2) Signal Noise Fault (Intake Manifold 2 Temp)	Service
P0096-64	Intake Manifold Temperature Sensor (M2) Signal Plausibility Fault (Intake Manifold 2 Temp)	Service
P0097-23	Intake Manifold Temperature Sensor (M2) Signal Low Fault (Intake Manifold 2 Temp)	Service
P0098-24	Intake Manifold Temperature Sensor (M2) Signal High Signal Fault (Intake Manifold 2 Temp)	Service
P00B7-87	CAN Bus Message Error For Coolant Sensor From Engine EECU	Operator

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Figure 950.



16. Reposition and use the same tools to measure the layshaft end float.

Figure 951.



17. Reposition and use the same tools to measure the output shaft end float. The output shaft bearing is preloaded and deflection should be zero.

Figure 952.



18. Measure the pump clutch shaft end float.

Figure 953.



19. Use the special tool to lock off the bevel pinion gear. Measure the bevel gear backlash. The tool is installed the opposite side of the transmission case.

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(For: 536-60 [5AC], 536-60 [5TC])

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