SERVICE MANUAL

LOADALL (ROUGH TERRAIN VARIABLE REACH TRUCK)
525-60

EN - 9813/3900 - ISSUE 3 - 02/2018

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.

Contents

01 - Machine

03 - Attachments, Couplings and Load Handling

06 - Body and Framework

09 - Operator Station

12 - Heating, Ventilating and Air-Conditioning (HVAC)

15 - Engine

18 - Fuel and Exhaust System

21 - Cooling System

24 - Brake System

25 - Steering System

27 - Driveline

30 - Hydraulic System

33 - Electrical System

72 - Fasteners and Fixings

75 - Consumable Products

78 - After Sales

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01 - Machine

Contents **Page No.**

Acronyms Glossary 01-2

01-03 Safety
- 01-03-03 Safety - Yours and Others 01-3
- 01-03-06 Safety Warnings 01-4
- 01-03-09 General Safety 01-5
- 01-03-12 Maintenance Safety 01-6
- 01-03-18 Operating Safety 01-8
- 01-03-21 Worksite Safety 01-10
- 01-03-24 Risk Assessment 01-11
- 01-03-27 Maintenance Positions 01-12

01-06 About this Manual
- 01-06-03 Model and Serial Number 01-17
- 01-06-06 Using the Manual 01-18

01-09 Description
- 01-09-00 General 01-21
- 01-09-03 Log Moving/Object Handling 01-23
- 01-09-06 Optional Equipment and Attachments 01-24
- 01-09-12 Main Component Locations 01-25
- 01-09-15 Service Point Locations 01-26

01-30 Towing
- 01-30-00 General 01-31

01-33 Cleaning
- 01-33-00 General 01-37

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03 - Safety

Contents **Page No.**

01-03-03 Safety - Yours and Others 01-3
01-03-06 Safety Warnings 01-4
01-03-09 General Safety 01-5
01-03-12 Maintenance Safety 01-6
01-03-18 Operating Safety 01-8
01-03-21 Worksite Safety 01-10
01-03-24 Risk Assessment 01-11
01-03-27 Maintenance Positions 01-12

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09 - Description

Contents **Page No.**

01-09-00 General 01-21
01-09-03 Log Moving/Object Handling 01-23
01-09-06 Optional Equipment and Attachments 01-24
01-09-12 Main Component Locations 01-25
01-09-15 Service Point Locations 01-26

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Main Components Connected to The Rear Cab Harness (Air Conditioning Not Installed):

A/C condenser cooling fans

Park brake switch

Roof wiper

Rear wiper

Rear work lights

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Fault Code	Fault Description	Fault Severity
P242B-17	Error On Catalyst Temperature Sensor Plausibility Above Max Threshold	Operator
P242B-23	Exhaust Catalyst Temperature T4 Physical Signal Below Minimum Limit	Operator
P242C-16	Exhaust Catalyst Temperature T4 Voltage Signal Below Minimum Limit	Operator
P242D-17	Exhaust Catalyst Temperature T4 Voltage Signal Above Maximum Limit	Operator
P2502-87	CAN Bus Message Error For Power Management From Engine ECU	Operator
P256A-13	Trivial	
P256B-00	Trivial	
P256B-23	Trivial	
P256B-24	Trivial	
P256B-2A	Trivial	
P256B-64	Trivial	
P256C-11	Trivial	
P256D-12	Trivial	
P2620-00	Throttle Position Feedback ADC Fault	Service
P2620-2F	Throttle Position Feedback Signal Noisy Fault	Service
P2621-23	Throttle Position Feedback Signal Low Fault	Service
P2622-24	Throttle Position Feedback Signal High Fault	Service
P2670-14	Short Circuit To Ground Of Actuator Relay 2	Operator
P2671-12	Short Circuit To Battery Of Actuator Relay 2	Operator
P2685-14	Short Circuit To Ground Of Actuator Relay 3	Operator
P2686-12	Short Circuit To Battery Of Actuator Relay 3	Operator
P2714-13	Reverse Low Solenoid Open	Operator
P2714-13	W Solenoid Open Circuit. Solenoid Not Present Or Short To Ground.	Operator
P2715-15	Reverse Low Solenoid STB	Operator
P2715-15	W Solenoid Short Circuit To Supply	Operator
P2716-14	Reverse Low Solenoid STG	Operator
P2716-14	W Solenoid Out Of Range. Shorted To Low Source	Operator
P2716-18	W Solenoid Current Feedback Below Current Demand	Operator
P2716-19	W Solenoid Current Feedback Above Current Demand	Operator
P2717-1F	W Solenoid Check Wiring Integrity, Possible Intermittent Fault	Operator

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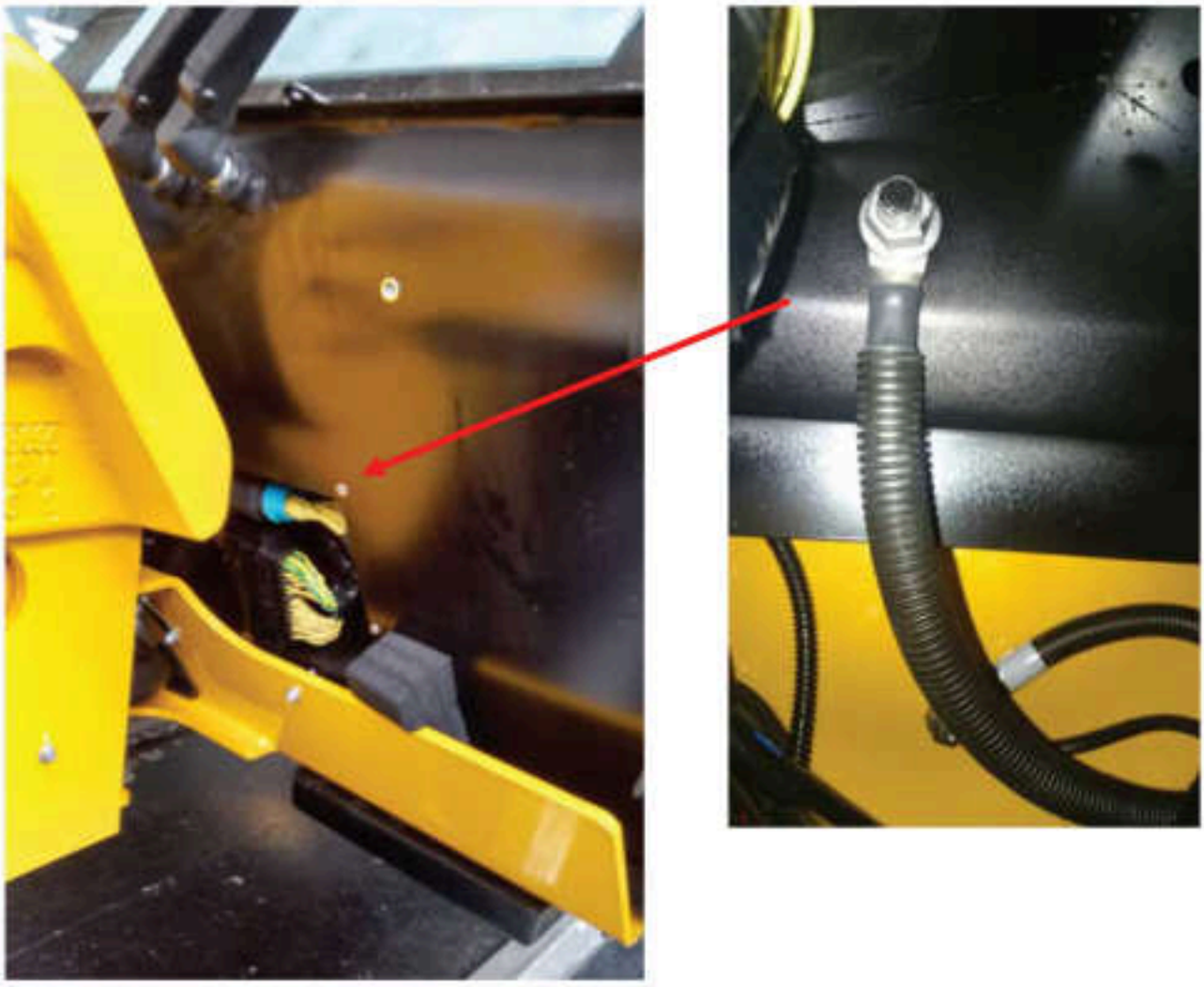
Technical Data

Table 426. Sealants Approved Product Information

Subsection	Commercial name	Product Number	Colour	Shelf life	Technical data	Comments
High strength	Loctite 275[1] / Permabond A140	4102/0500	Green	730d	250bar (3,623.2psi) torque strength (on M8)	Non drip formulation, used on larger fittings, coarse threads.
High strength	Forgeway 240FC[1]	4102/3100	Yellow	270d	25bar (362.3psi) breaking strength	Can be painted over with some 2 pack paint. Maximum width of joint =35mm, minimum width =2mm, minimum depth =2mm. Recommended depth of joint = width of joint.
Medium to high strength	Loctite 620	4102/3500	Green	-	More than 241bar (3,492.7psi) shear strength	Used for locating pins in radiator assemblies, sleeves into pump housings and bearings in auto transmissions. Not suitable for plastics. Diametrical clearance: up to 0.2mm
Medium strength	Loctite 518 Gasket Eliminator	4102/2000	Red, fluorescent	365d	90bar (1,304.3psi) tensile strength	Typically used as form-in-place gasket on rigid flanged connections.
Medium strength	Loctite 5182	4102/4100	Red gel, fluorescent	-	80bar (1,159.4psi) shear strength	It is manufactured to minimise air bubbles in the package. Used to seal gaskets, housings, cases and covers. It can also be used to repair and replace cut gaskets (up to 0.08mm in thickness).
Medium strength	Loctite 595	4102/2500	Clear	365d	6mm gap filling	Formulated to withstand weathering and extreme temperature cycling. Used for potting, coating and sealing. Can be applied horizontal, vertical and overhead.
Medium strength	Loctite 577[1] / Permabond A1044	4102/1900	Yellow	365d	170bar (2,463.8psi) breakaway torque	A fast curing thread sealant used on coarse threads and pipe fittings up to 75mm thread size. Clearance for gap filling 0.8mm.
Medium strength	Loctite 2431	4102/2700	Blue	365d	140–340bar (2,029.0–4,927.5psi) breakaway torque	Taper thread sealant, non-fluorescing to see oil leaks. Suitable for all taper fittings up to M36.
Low strength	Clayton Dewandre air brake sealant SC1252	4102/2200	White opaque	12h full cure	Maximum seal pressure 29bar (420.3psi)	Seals pipes and plugs against leakage of air, fuels, lubricants and coolants. Hardens to a tough seal resistant to shock and vibration. Easily dismantled.
Low strength	Red Hermetite	4102/0800	-	-	Resistant to oil	Non-hardening paste jointing for joints regularly opened for servicing.

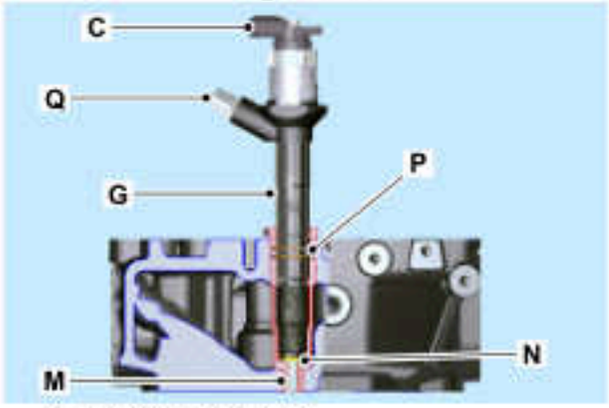
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Figure 1213. Earth Lead Between the Cab- Chassis, Connects at C037 Also



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Figure 509.

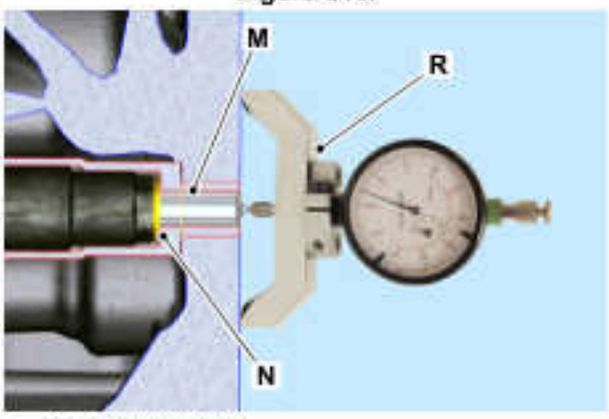


C Electrical connector
G Electronic injector
M Injector sleeve
N Gasket
P Gasket
Q High pressure pipe inlet

6. Make sure that you clamp the sleeve to the correct torque value.
7. Make sure that you put the injector into the sleeve.
8. Make sure that the injector is installed in the correct orientation, with the bleed-off port facing the right hand side (exhaust manifold) of the engine.
9. Make sure that you use a dial gauge to check that the projection of the electronic injector sleeve must be in the specified range.

   Length/Dimension/Distance: 1.68–2.42mm
   Special Tool: Tool for protrusion of pistons, injectors and glow plugs (Qty.: 1)

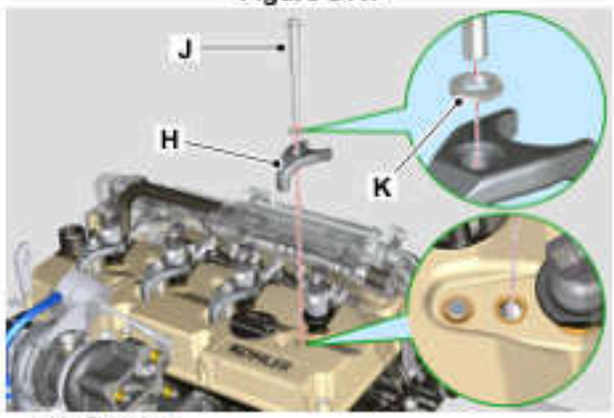
Figure 510.



M Injector sleeve
N Gasket
R Dial gauge

10. Install the rocker arm pin fixing screw.
11. Position the electronic injector fixing bracket and secure it with a screw and washer.

Figure 511.



H Bracket
J Screw
K Washer

12. Tighten the injector fixing bracket screw to the correct torque value.
13. Attach the fuel return pipe fitting to the injector head.
14. Connect the electrical connector.

Note: If the injector projection does not fall into the specified range then replace the gasket, on the base of the injector sleeve and repeat the inspection.

After Installation

1. Replace the rocker cover.
   Refer to: PIL 15-42-06.
2. Renew the high pressure fuel pipes.
   Refer to: PIL 18-96-03.
3. Start the engine and check for fuel leaks.

Table 158. Torque Values

Item	Nm
M	30
J	20

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