SERVICE MANUAL

LOADALL (ROUGH TERRAIN VARIABLE REACH TRUCK)
533-105, 535-v125, 540-140, 540-170, 540-200, 540-v140, 540-v180, 550-140, 550-170

EN - 9813/9100 - ISSUE 1 - 11/2017

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

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Foreword

The Operator's Manual

⚠

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 01-15
- 01-06-06 Using the Manual 01-16

01-09 Description
- 01-09-00 General 01-19
- 01-09-03 Log Moving/Object Handling 01-21
- 01-09-06 Optional Equipment and Attachments 01-22
- 01-09-12 Main Component Locations 01-23
- 01-09-15 Service Point Locations 01-24

01-33 Cleaning
- 01-33-00 General 01-31

MidWestTech | JCB Loadall Rough Terrain 533-105, 535-V125, 540-140, 540-170, 540-... Order the manual at mid-west-tech.com >

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

MidWestTech | JCB Loadall Rough Terrain 533-105, 535-V125, 540-140, 540-170, 540-... Order the manual at mid-west-tech.com >

09 - Description

Contents **Page No.**

01-09-00 General 01-19
01-09-03 Log Moving/Object Handling 01-21
01-09-06 Optional Equipment and Attachments 01-22
01-09-12 Main Component Locations 01-23
01-09-15 Service Point Locations 01-24

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Adjust

(For: 533-105 [T4F], 535-v125 [T4F], 540-140 [T4F], 540-170 [T4F], 540-200 [T4F], 540-v180 [T4F], 550-140 [T4F], 550-170 [T4F])

If the proximity switch is defective, replace it. Refer to steering system- proximity switch, refer to (PIL 25-15).

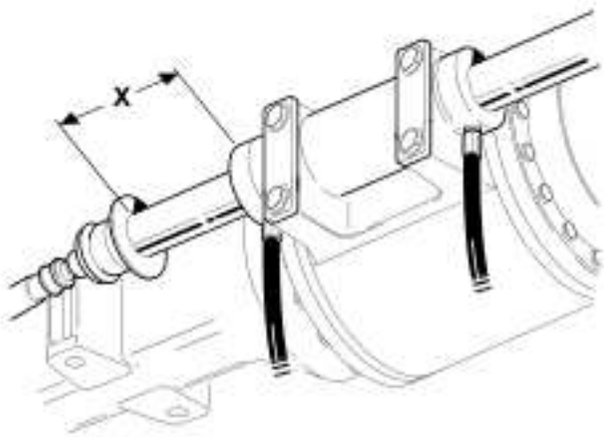
For electrical operation and testing, refer to electrical system- electronic diagnostic, refer to (PIL 33-57).

The proximity switch setting procedure is the same for both the front and rear axles.

1. Align the wheels in the straight ahead position.
2. Check the alignment as shown in the figure. Set the steering so that the dimension X is of the specified value.

   Length/Dimension/Distance: 129mm

Figure 631.

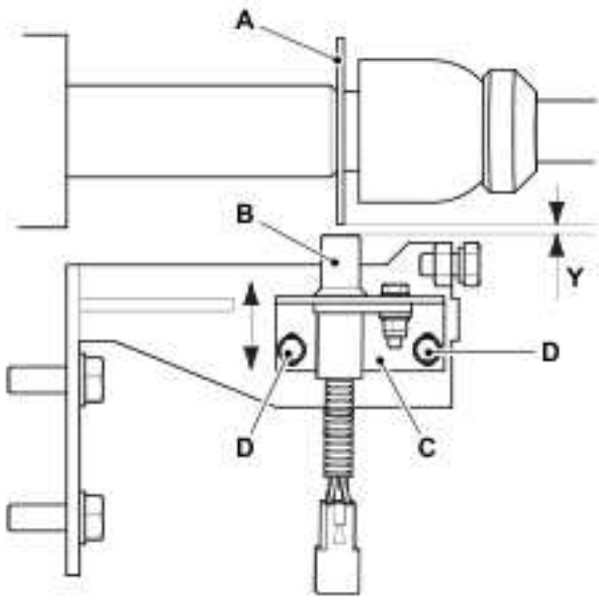


X Wheel alignment dimension

3. Remove the proximity switch cover.
4. Measure the dimension Y between the sensor tip and the edge of the target disc and make sure that it is to the specified value.

   Length/Dimension/Distance: 1–2mm

Figure 632.



A Target disc
B Proximity switch
C Bracket
D Bolts
Y Distance between the sensor tip and the end of the target disc

5. If the dimension is not correct, adjust the switch as follows:

   5.1. Loosen the bolts.

   5.2. Move the bracket up or down to make dimension Y correct.

   5.3. Tighten the bolts.

   5.4. Repeat the step 4 again.

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25 - Controls

Diagram

(For: 540-170 [T4F], 550-170 [T4F])

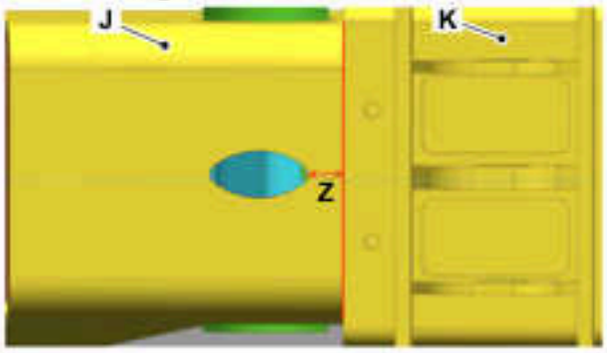
Figure 1568. 721/F1656-1 Sheet 1 Joystick Harness ..... Page 33-1281
Figure 1569. 721/F1656-1 Sheet 2 Joystick Harness ..... Page 33-1285
Figure 1570. 721/H1703-1 Valve Block Harness..... Page 33-1289
Figure 1571. 721/X6432-1 Sway harness..... Page 33-1293

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Fault Code	Fault Description	Fault Severity
C15BD-64	Invalid Vin Received	Trivial
CLUTCH	Service	
DEF	Level Warning Requested	Operator
ENG Lock	Engine - Engine ECU Lockout	Trivial
ENG OIL	Oil Level Sensor Signal Global Fault	Operator
ENG OIL	Oil Level Sensor Signal Global Fault	Operator
IMM Lock	Immobiliser Lockout	Trivial
LOW DEF	Ad-Blue Level Low - Most Severe	Critical
LOW DEF	Ad-Blue Level Low - Moderately Severe	Operator
LOW FUEL	Low Fuel Level (Operator Level)	Operator
LOW FUEL	Low Fuel Level (Service Level)	Operator
P0001-13	IMV Driver Fault Is Detected	Service
P0002-00	Rail Pressure Positive Control Error During 'IMV-Only' Control. Pid Controller Not Able To Stabilise The RPC Value	Critical
P0002-00	Rail Pressure Negative Control Error During 'IMV-Only' Control. Pid Controller Not Able To Stabilise The RPC Value	Service
P0002-1A	Rail Pressure Control Error (Pressure Error Too Low).	Service
P0002-1B	Rail Pressure Control Error (Pressure Error Too High).	Service
P0003-11	IMV Driver Fault Is Detected	Service
P0003-18	Rail Pressure Control Feedback Low Error	Critical
P0004-12	IMV Driver Fault Is Detected	Service
P0004-19	Rail Pressure Control Feedback High Error	Service
P0070-81	CAN Bus Message Error From Engine ECU	Operator
P0070-87	CAN bus Off Error From Engine ECU	Operator
P0071-87	CAN Bus Message Error For Environment Temperature From Engine ECU	Operator
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

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Figure 151. Measurement Z



J Inner top side
K Third intermediate top side
Z 30–35mm

Figure 152. Measurement X set up- side view



Figure 153. Measurement X set up- view from underside of machine



Figure 154. Measurement Y set up

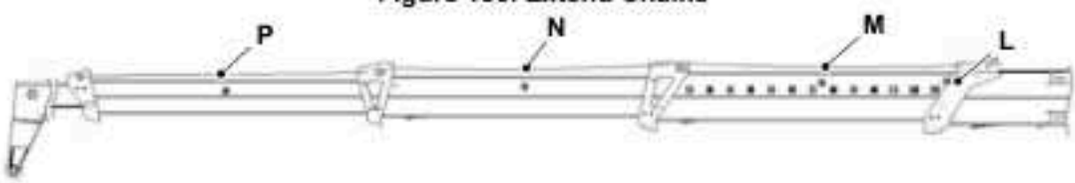


Figure 155. Measurement Z set up



Phasing and Tensioning Procedure.

Figure 156. Extend Chains



L Retract decal marker A 0.5m

M First intermediate measuring point 73–83mm

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(For: 540-v180 [T4F])

Figure 1375. Battery and Primary Fuses 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-569
Figure 1376. Ignition and Secondary Fuses 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-573
Figure 1377. Engine- Fuses and Starter 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-577
Figure 1378. Engine- ECU and Sensors 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-581
Figure 1379. Engine- After Treatment 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-585
Figure 1380. PS750 Transmission 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-589
Figure 1381. Live Link and Immobiliser 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-593
Figure 1382. Instruments 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-597
Figure 1383. Roadlights 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-601
Figure 1384. Directional Indicators 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-605
Figure 1385. Worklights 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-609
Figure 1386. Wiper Motors 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-613
Figure 1387. HVAC 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-617
Figure 1388. In Cab Entertainment 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-621
Figure 1389. Reverse Fan 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-625
Figure 1390. CAN Bus Architecture 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-629
Figure 1391. CAN Bus Engine 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-633
Figure 1392. Switch Illumination 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-637
Figure 1393. Ground Panel 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-641
Figure 1394. Ground Chassis 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-645
Figure 1395. 07/11 Controller 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-649
Figure 1396. Hydraulic ECU 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-653
Figure 1397. Pin Lock 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-657
Figure 1398. Hitch Harness 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-661
Figure 1399. Steer Mode 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-665
Figure 1400. Park Brake and Auto / Manual 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-669
Figure 1401. SRS 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-673
Figure 1402. LLMI 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-677
Figure 1403. Footbrake Dump 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-681
Figure 1404. Valve Block 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-685
Figure 1405. Joystick and Sway 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-689
Figure 1406. E-Stop 160/B4268-2 (Mechanical Hydraulic Lever Machines)..... Page 33-693
Figure 1407. Battery and Primary Fuses 160/F0429-3 (Electro Hydraulic Machines)..... Page 33-697
Figure 1408. Ignition and Secondary Fuses 160/F0429-3 (Electro Hydraulic Machines)..... Page 33-701
Figure 1409. Engine Fuse, Start and Radio 160/F0429-3 (Electro Hydraulic Machines)..... Page 33-705
Figure 1410. Engine- ECU and Sensors 160/F0429-3 (Electro Hydraulic Machines)..... Page 33-709
Figure 1411. Engine- After Treatment 160/F0429-3 (Electro Hydraulic Machines)..... Page 33-713
Figure 1412. Transmission PS750 160/F0429-3 (Electro Hydraulic Machines)..... Page 33-717
Figure 1413. Live Link / Immobiliser 160/F0429-3 (Electro Hydraulic Machines)..... Page 33-721
Figure 1414. Instruments 160/F0429-3 (Electro Hydraulic Machines)..... Page 33-725

MidWestTech | JCB Loadall Rough Terrain 533-105, 535-V125, 540-140, 540-170, 540-... Order the manual at mid-west-tech.com >