SERVICE MANUAL

W230C
Wheel Loader

Print No. 84414734A

NEW HOLLAND CONSTRUCTION

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W230C Wheel Loader
Service Manual
84414734A

Table of Contents

Description	Section No.
General	**Tab 1**
Section Index - General	
Standard Torque Specifications	1001
Fluids and Lubricants	1002
Metric Conversion Chart	1003
Engines	**Tab 2**
Section Index - Engines	
Engine and Radiator Removal and Installation	2000
Stall Tests	2002
After Cooler	2003
For Engine Repair, See the Engine Service Manual 87600994	
Fuel System	**Tab 3**
Section Index - Fuel System	
For Fuel System Repair, See the Engine Service Manual 87600994	
SCR System	3002
Electrical	**Tab 4**
Section Index - Electrical	
Removal and Installation of Starter and Alternator	4001
Electrical Specifications and Troubleshooting	4002
Batteries	4003
Instrument Cluster	4005
Rear view Camera and Monitor	4006
Steering	**Tab 5**
Section Index - Steering	
Removal and Installation of Steering Components	5001
Steering Specifications, Pressure Checks, and Troubleshooting	5002
Steering Cylinders	5005
Center Pivot	5006
Auxiliary Steering Motor and Pump	5008

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W230C Wheel Loader
Service Manual
84414734A

Table of Contents

Description	Section No.
Joystick Steering System (JSS) (Optional)	5009
Power Train	**Tab 6**
Section Index - Power Train	
Removal and Installation of Power Train Components	6001
Transmission Specifications, Pressure Checks, and Troubleshooting	6002
Transmission	6003
Front Axle	6004
Rear Axle	6004
Drive Shafts, Center Bearing, and Universal Joints	6005
Wheels and Tires	6006
Transmission Control Valve	6007
Brakes	**Tab 7**
Section Index - Brakes	
Removal and Installation of Brake Components	7001
Hydraulic Brake Troubleshooting	7002
Brake Pump	7003
Brake Accumulators	7004
Parking Brake	7008
Hydraulics	**Tab 8**
Section Index - Hydraulics	
Removal and Installation of Hydraulic Components	8001
Hydraulic Specifications, Troubleshooting, and Pressure Checks	8002
Cleaning the Hydraulic System	8003
Hydraulic Pump	8004
Loader Control Valve	8005
Cylinders	8006
Coupler Solenoid Locking Valve	8007
Ride Control Accumulator	8013
Ride Control Valve	8014

MidWestTech | New Holland W230C Wheel Loader Service Manual | Publication 8441... Order the manual at mid-west-tech.com >

W230C Wheel Loader
Service Manual
84414734A

Table of Contents

Description	Section No.
Mounted Equipment	**Tab 9**
Section Index - Mounted Equipment	
Air Conditioning Troubleshooting and System Checks For Systems with HFC-134a Refrigerant	9002
Air Conditioner System Service	9003
Removal and Installation of Air Conditioning and Heater Components	9004
Loader	9006
Rollover Protective Structure (ROPS) Cab Structural Frame (CSF)	9007
Cab Glass Installation	9010
Electrical Schematic Foldouts and Hydraulic Schematic Foldout	**In Rear Pocket**

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161 – NOX Sensor		
Check Points	Correct Reading	Possible Cause of Bad Reading
NOTE: *See SCR controller manual for details.*		

162 – Humidity and ambient temperature sensor		
Check Points	Correct Reading	Possible Cause of Bad Reading
NOTE: *See SCR controller manual for details.*		

163 – NOX Sensor (NOXS)		
Check Points	Correct Reading	Possible Cause of Bad Reading
NOTE: *See SCR controller manual for details.*		

164 – Tank heater control valve		
Check Points	Correct Reading	Possible Cause of Bad Reading
NOTE: *See SCR controller manual for details.*		

165 – DEF Level and tank temperature		
Check Points	Correct Reading	Possible Cause of Bad Reading
NOTE: *See SCR controller manual for details.*		

166 – Upstream temperature sensor		
Check Points	Correct Reading	Possible Cause of Bad Reading
NOTE: *See SCR controller manual for details.*		

167 – Downstream temperature sensor		
Check Points	Correct Reading	Possible Cause of Bad Reading
NOTE: *See SCR controller manual for details.*		

168 – Doser metering valve		
Check Points	Correct Reading	Possible Cause of Bad Reading
NOTE: *See SCR controller manual for details.*		

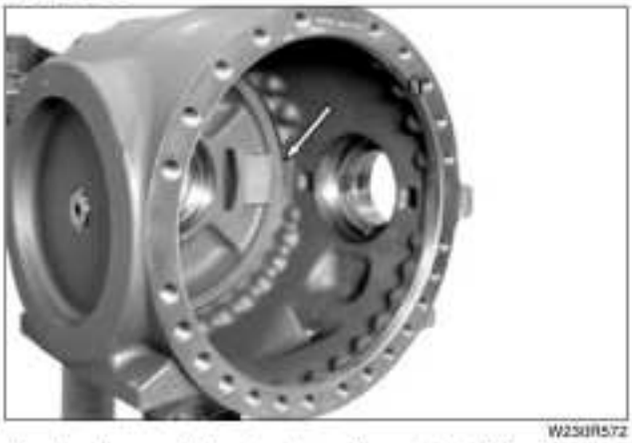
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CODE	DEFINITION	DESCRIPTION AND POSSIBLE STEPS FOR REPAIR
3145	Terminal 15 - No signal	NOTICE: Fault Code 3145 is stored historical information. For multiple occurrences of this fault proceed with the following tests. NOTE: See engine repair manual for electrical schematic information. When available use special tool 380040185 harness diagnostic/repair kit. Cause: 1. Faulty reading from component. 2. Connectors not mated fully, pins not pushed into connector fully, bent pin or broken wire at rear of connector. 3. Wiring or circuits open. 4. Wiring or circuits shorted. 5. Connector pins corroded or dirty.
3147	Oil temperature sensor signal above normal range	Check oil temperature sensor for accuracy and check oil system.
3148	Coolant temperature sensor dynamic test - Failure (Minimum temperature raise not reached).	See engine manual for details.
3154	Grid heater relay short-circuit to battery	Short circuit of wiring to external source or inside relay. Check wiring or replace relay
3155	Grid heater relay short-circuit to ground	Short circuit of wiring to ground or inside relay. Check wiring or replace relay
3156	Grid heater relay no load	Broken or disconnected wiring or defective relay. Check wiring or replace relay
3157	Engine dataset information was not available from EDC in required time	See engine manual for details.
3158	Engine dataset does not match dataset registered for this machine	See engine manual for details.
3160	Fan actuator - Short circuit to battery	See engine manual for details.
3161	Fan actuator signal low	No information available at time of print.
3162	Fan actuator - Open load	See engine manual for details.
3163	Fan actuator - Temperature too high	See engine manual for details.
3166	Fuel filter heater relay - Short circuit to battery	See engine manual for details.
3167	Fuel filter heater relay - Short circuit to ground.	See engine manual for details.
3168	Fuel filter heater relay - Open load.	See engine manual for details.
3169	Fuel filter heater relay - Signal not plausible.	See engine manual for details.

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Input

STEP 88



W230R572

Find and record the housing dimension "X".

Dimension X (Example). . . . . 205.30 mm (8.08 inch)

STEP 89



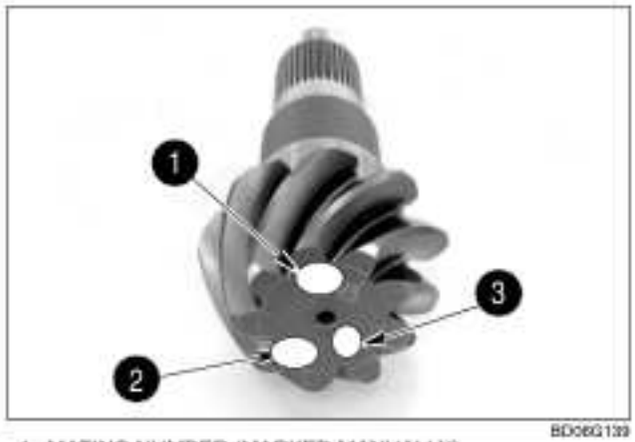
BD08G139

Measure the thickness of the inner bearing and record its measurement, dimension "I".

Dimension I (Example) . . . . . 36.13 mm (1.422 inch)

NOTE: *Deduct the thickness of the gauge blocks being used to support the bearing from the overall measurement,*
IE: overall measurement 106.13 mm (4.178 inch)
minus gauge block thickness 70 mm (2.756 inch) will equal dimension I.

STEP 90



BD08G139

1. MATING NUMBER (MARKED MANUALLY)
2. PINION BASIC DIMENSION (STAMPED)
3. PINION DISTANCE DEVIATION + OR - (MARKED MANUALLY)

Distance deviation is indicated in 1/100 mm. If no distance deviation is indicated the pinion basic dimension is identical with the pinion dimension. Record this as dimension "II".

Dimension II (Example) 168 -0.05 mm = 167.95 mm
. . . . . (6.614 inch -0.002 inch = 6.612 inch)

STEP 91

Calculation example A:

Dimension I	36.13 mm (1.422 inch)
Dimension II	+167.95 mm (6.612 inch)
Results in dimension Y	= **204.08 mm (8.034 inch)**

Calculation example B:

Dimension X	205.30 mm (8.080 inch)
Dimension Y	−204.08 mm (8.034 inch)
Difference = shim thickness	= **1.22 mm (0.046 inch)**

NOTE: *Shims are available in 0.10 mm (0.004 inch), round up or down to the next available shim thickness, s = 1.20 (0.044 inch)*

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