

SERVICE MANUAL

W130D
W170D
Tier 2
Wheel Loader

Part number 48083744

English
July 2018





SERVICE MANUAL

**W130 D ZBAR, NEW CAB - EH, TIER2
W170 D ZBAR, NEW CAB - EH, TIER2**

Link Product / Engine

Product	Market Product	Engine
W130 D ZBAR, NEW CAB - EH, TIER2	Middle East Africa	F4HFE613W*B002
W130 D ZBAR, NEW CAB - EH, TIER2	Australia New Zealand	F4HFE613W*B002
W130 D ZBAR, NEW CAB - EH, TIER2	Asia Pacific	F4HFE613W*B002
W130 D ZBAR, NEW CAB - EH, TIER2	Latin America	F4HFE613W*B002
W170 D ZBAR, NEW CAB - EH, TIER2	Latin America	F4HFA613F*E002
W170 D ZBAR, NEW CAB - EH, TIER2	Middle East Africa	F4HFA613F*E002

Contents

INTRODUCTION

Engine	10
[10.001] Engine and crankcase	10.1
[10.202] Air cleaners and lines	10.2
[10.400] Engine cooling system	10.3
[10.414] Fan and drive	10.4
[10.310] Aftercooler.....	10.5
[10.304] Engine lubrication system.....	10.6
Transmission	21
[21.113] Powershift transmission	21.1
[21.135] Powershift transmission external controls.....	21.2
[21.155] Powershift transmission internal components.....	21.3
[21.700] Torque converter	21.4
Four-Wheel Drive (4WD) system	23
[23.314] Drive shaft.....	23.1
Front axle system	25
[25.100] Powered front axle	25.1
[25.102] Front bevel gear set and differential	25.2
[25.108] Final drive hub, steering knuckles, and shafts	25.3
Rear axle system	27
[27.100] Powered rear axle.....	27.1
[27.106] Rear bevel gear set and differential	27.2
[27.120] Planetary and final drives	27.3
Brakes and controls	33
[33.202] Hydraulic service brakes	33.1
[33.110] Parking brake or parking lock	33.2

Hydraulic systems	35
[35.000] Hydraulic systems.....	35.1
[35.300] Reservoir, cooler, and filters.....	35.2
[35.106] Variable displacement pump	35.3
[35.359] Main control valve.....	35.4
[35.357] Pilot system	35.5
[35.204] Remote control valves	35.6
[35.752] Hydraulic fan drive cooling system.....	35.7
[35.701] Front loader arm hydraulic system	35.8
[35.723] Front loader bucket hydraulic system	35.9
[35.734] Tool quick coupler hydraulic system	35.10
Frames and ballasting	39
[39.100] Frame	39.1
Steering	41
[41.101] Steering control	41.1
[41.200] Hydraulic control components.....	41.2
[41.216] Cylinders	41.3
[41.910] Auxiliary steering	41.4
Wheels	44
[44.511] Front wheels.....	44.1
[44.520] Rear wheels.....	44.2
Cab climate control	50
[50.100] Heating.....	50.1
[50.200] Air conditioning.....	50.2
Electrical systems	55
[55.100] Harnesses and connectors.....	55.1
[55.301] Alternator.....	55.2
[55.302] Battery.....	55.3

[55.512] Cab controls.....	55.4
[55.050] Heating, Ventilation, and Air-Conditioning (HVAC) control system.....	55.5
[55.415] Loader arm and bucket control system	55.6
[55.530] Camera.....	55.7
[55.DTC] FAULT CODES.....	55.8
Front loader and bucket.....	82
[82.100] Arm.....	82.1
[82.300] Bucket.....	82.2
Platform, cab, bodywork, and decals.....	90
[90.150] Cab.....	90.1
[90.120] Mechanically-adjusted operator seat.....	90.2
[90.124] Pneumatically-adjusted operator seat.....	90.3
[90.105] Machine shields and guards	90.4

**Thank you very much
for your reading.**

**Please click here to buy
After you pay.**

**Then, you can
download the complete
manual instantly.
No waiting.**