

[Click here to get the complete manual](#)

# **CX250D** Crawler Excavator

## **SERVICE MANUAL**

Part number 47928442

English

September 2015

© 2015 CNH Industrial Italia S.p.A. All Rights Reserved.

**CASE**  
CONSTRUCTION



## **SERVICE MANUAL**

**CX250D Crawler excavators LC version (TIER4 FINAL) - EU Market**  
**CX250D Crawler excavators NLC version (TIER4 FINAL) - EU Market**

# Contents

---

## INTRODUCTION

Engine.....	10
[10.001] Engine and crankcase .....	10.1
[10.102] Pan and covers .....	10.2
[10.106] Valve drive and gears .....	10.3
[10.101] Cylinder heads .....	10.4
[10.105] Connecting rods and pistons.....	10.5
[10.103] Crankshaft and flywheel.....	10.6
[10.216] Fuel tanks .....	10.7
[10.206] Fuel filters .....	10.8
[10.218] Fuel injection system.....	10.9
[10.202] Air cleaners and lines .....	10.10
[10.250] Turbocharger and lines.....	10.11
[10.254] Intake and exhaust manifolds and muffler .....	10.12
[10.500] Selective Catalytic Reduction (SCR) exhaust treatment.....	10.13
[10.501] Exhaust Gas Recirculation (EGR) exhaust treatment.....	10.14
[10.400] Engine cooling system .....	10.15
[10.414] Fan and drive .....	10.16
[10.310] Aftercooler.....	10.17
[10.304] Engine lubrication system.....	10.18
Hydraulic systems.....	35
[35.000] Hydraulic systems.....	35.1
[35.300] Reservoir, cooler, and filters.....	35.2
[35.106] Variable displacement pump .....	35.3
[35.102] Pump control valves.....	35.4
[35.359] Main control valve.....	35.5
[35.357] Pilot system .....	35.6

[35.355] Hydraulic hand control .....	35.7
[35.356] Hydraulic foot control.....	35.8
[35.352] Hydraulic swing system .....	35.9
[35.353] Hydraulic travel system .....	35.10
[35.354] Hydraulic central joint .....	35.11
[35.736] Boom hydraulic system .....	35.12
[35.737] Dipper hydraulic system.....	35.13
[35.738] Excavator and backhoe bucket hydraulic system.....	35.14
[35.360] Hammer and rotating bucket hydraulic system .....	35.15
<b>Frames and ballasting .....</b>	<b>39</b>
[39.140] Ballasts and supports .....	39.1
<b>Tracks and track suspension .....</b>	<b>48</b>
[48.130] Track frame and driving wheels.....	48.1
[48.100] Tracks .....	48.2
[48.134] Track tension units .....	48.3
[48.138] Track rollers .....	48.4
<b>Cab climate control .....</b>	<b>50</b>
[50.100] Heating .....	50.1
[50.200] Air conditioning.....	50.2
<b>Electrical systems .....</b>	<b>55</b>
[55.000] Electrical system .....	55.1
[55.100] Harnesses and connectors.....	55.2
[55.525] Cab engine controls.....	55.3
[55.015] Engine control system.....	55.4
[55.201] Engine starting system .....	55.5
[55.301] Alternator.....	55.6
[55.302] Battery.....	55.7
[55.202] Cold start aid .....	55.8

[55.011] Fuel tank system .....	55.9
[55.010] Fuel injection system .....	55.10
[55.014] Engine intake and exhaust system.....	55.11
[55.988] Selective Catalytic Reduction (SCR) electrical system .....	55.12
[55.989] Exhaust Gas Recirculation (EGR) electrical system .....	55.13
[55.012] Engine cooling system .....	55.14
[55.013] Engine oil system .....	55.15
[55.640] Electronic modules .....	55.16
[55.512] Cab controls.....	55.17
[55.036] Hydraulic system control .....	55.18
[55.051] Cab Heating, Ventilation, and Air-Conditioning (HVAC) controls.....	55.19
[55.050] Heating, Ventilation, and Air-Conditioning (HVAC) control system.....	55.20
[55.524] Cab controls (Lift arm, Boom, Dipper, Bucket).....	55.21
[55.416] Swing control system .....	55.22
[55.417] Travel control system .....	55.23
[55.530] Camera.....	55.24
[55.518] Wiper and washer system.....	55.25
[55.404] External lighting .....	55.26
[55.514] Cab lighting .....	55.27
[55.408] Warning indicators, alarms, and instruments .....	55.28
[55.992] Anti-theft system .....	55.29
[55.DTC] FAULT CODES.....	55.30
<b>Booms, dippers, and buckets .....</b>	<b>84</b>
[84.910] Boom .....	84.1
[84.912] Dipper arm .....	84.2
[84.100] Bucket.....	84.3
<b>Platform, cab, bodywork, and decals .....</b>	<b>90</b>
[90.150] Cab.....	90.1