

**2050M**  
**Stage IIIB**  
**Crawler Dozer**

*PIN NGC109000 and above*

**SERVICE MANUAL**

Part number 48048571

1<sup>st</sup> edition English

April 2017

© 2017 CNH Industrial America LLC. All Rights Reserved.

**CASE**  
CONSTRUCTION



## **SERVICE MANUAL**

**2050M Extra Long Track (XLT), Bulldozer (BD) Blade - Tier 4B (final) and Stage IIIB [NGC109000 - ], 2050M Extra Long Track (XLT), Power Angle Tilt (PAT) Blade - Tier 4B (final) and Stage IIIB [NGC109000 - ], 2050M Long Track (LT), Bulldozer (BD) Blade - Tier 4B (final) and Stage IIIB [NGC109000 - ], 2050M Long Track (LT), Power Angle Tilt (PAT) Blade - Tier 4B (final) and Stage IIIB [NGC109000 - ], 2050M Wide Track (WT) / Low Ground Pressure (LGP), Bulldozer (BD) Blade - Tier 4B (final) and Stage IIIB [NGC109000 - ], 2050M Wide Track (WT) / Low Ground Pressure (LGP), Power Angle Tilt (PAT) Blade - Tier 4B (final) and Stage IIIB [NGC109000 - ]**

# Contents

---

## INTRODUCTION

Engine.....	10
[10.001] Engine and crankcase .....	10.1
[10.216] Fuel tanks .....	10.2
[10.206] Fuel filters .....	10.3
[10.202] Air cleaners and lines .....	10.4
[10.250] Turbocharger and lines.....	10.5
[10.500] Selective Catalytic Reduction (SCR) exhaust treatment.....	10.6
[10.400] Engine cooling system .....	10.7
[10.414] Fan and drive .....	10.8
[10.310] Aftercooler.....	10.9
[10.304] Engine lubrication system.....	10.10
Hydrostatic drive.....	29
[29.218] Pump and motor components.....	29.1
Brakes and controls .....	33
[33.110] Parking brake or parking lock .....	33.1
[33.202] Hydraulic service brakes .....	33.2
Hydraulic systems.....	35
[35.300] Reservoir, cooler, and filters.....	35.1
[35.104] Fixed displacement pump.....	35.2
[35.106] Variable displacement pump .....	35.3
[35.105] Charge pump.....	35.4
[35.359] Main control valve.....	35.5
[35.741] Dozer blade cylinders .....	35.6
[35.525] Auxiliary hydraulic valves and lines .....	35.7
[35.752] Hydraulic fan drive cooling system.....	35.8

[35.000] Hydraulic systems .....	35.9
<b>Frames and ballasting .....</b>	<b>39</b>
[39.100] Frame .....	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
[48.AAA] Tracks and track suspension generic sub-group .....	48.5
[48.140] Dropbox and final drive .....	48.6
<b>Cab climate control .....</b>	<b>50</b>
[50.100] Heating .....	50.1
[50.104] Ventilation .....	50.2
[50.200] Air conditioning .....	50.3
<b>Electrical systems .....</b>	<b>55</b>
[55.000] Electrical system .....	55.1
[55.011] Fuel tank system .....	55.2
[55.015] Engine control system .....	55.3
[55.030] Service brake electrical system .....	55.4
[55.050] Heating, Ventilation, and Air-Conditioning (HVAC) control system .....	55.5
[55.100] Harnesses and connectors .....	55.6
[55.201] Engine starting system .....	55.7
[55.202] Cold start aid .....	55.8
[55.301] Alternator .....	55.9
[55.302] Battery .....	55.10
[55.408] Warning indicators, alarms, and instruments .....	55.11
[55.512] Cab controls .....	55.12
[55.518] Wiper and washer system .....	55.13

[55.988] Selective Catalytic Reduction (SCR) electrical system .....	55.14
[55.DTC] FAULT CODES.....	55.15
<b>Dozer blade and arm.....</b>	<b>86</b>
[86.110] Dozer blade .....	86.1
[86.124] Dozer pushbeams and struts .....	86.2
<b>Tools .....</b>	<b>89</b>
[89.128] Ripper assembly .....	89.1
<b>Platform, cab, bodywork, and decals.....</b>	<b>90</b>
[90.150] Cab.....	90.1
[90.114] Operator protections .....	90.2
[90.124] Pneumatically-adjusted operator seat.....	90.3
[90.100] Engine hood and panels .....	90.4

It's a preview. You can download the full file by clicking the link below.

<https://shopservicemanual.com/>

Service Manuals from 2\$