

**821G  
921G  
Tier 2  
Wheel Loader**

**SERVICE MANUAL**

Part number 48083741

English

July 2018

© 2018 CNH Industrial Italia S.p.A. All Rights Reserved.

**CASE**  
CONSTRUCTION



## **SERVICE MANUAL**

**821G ZBAR - EH, NEW CAB TIER2  
921G ZBAR - EH, NEW CAB TIER2**

# 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
[21.155] Powershift transmission internal components.....	21.2
[21.700] Torque converter .....	21.3
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
<b>Frames and ballasting .....</b>	<b>39</b>
[39.100] Frame .....	39.1
<b>Steering .....</b>	<b>41</b>
[41.101] Steering control .....	41.1
[41.200] Hydraulic control components .....	41.2
[41.216] Cylinders .....	41.3
[41.910] Auxiliary steering .....	41.4
<b>Wheels .....</b>	<b>44</b>
[44.511] Front wheels .....	44.1
[44.520] Rear wheels .....	44.2
<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>
[55.100] 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
<b>Front loader and bucket.....</b>	<b>82</b>
[82.100] Arm.....	82.1
[82.300] Bucket.....	82.2
<b>Platform, cab, bodywork, and decals.....</b>	<b>90</b>
[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 so much for reading.  
Please click the “Buy Now!”  
button below to download the  
complete manual.



After you pay.

You can download the most  
perfect and complete manual in  
the world immediately.

Our support email:

[ebooklibonline@outlook.com](mailto:ebooklibonline@outlook.com)