

721F
Tier4B
Wheel Loader

SERVICE MANUAL

Part number 47881872

English

June 2015

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

CASE
CONSTRUCTION



SERVICE MANUAL

**721F XR
721F XT
721F ZBAR**

Contents

INTRODUCTION

| | |
|--|------|
| Engine..... | 10 |
| [10.001] Engine and crankcase | 10.1 |
| [10.202] Air cleaners and lines | 10.2 |
| [10.500] Selective Catalytic Reduction (SCR) exhaust treatment | 10.3 |
| [10.400] Engine cooling system | 10.4 |
| [10.414] Fan and drive | 10.5 |
| [10.310] Aftercooler..... | 10.6 |
| [10.304] Engine lubrication system..... | 10.7 |
| 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 |
| [35.357] Pilot system | 35.4 |
| [35.752] Hydraulic fan drive cooling system..... | 35.5 |
| [35.355] Hydraulic hand control | 35.6 |
| [35.724] Front loader hydraulic system control..... | 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 |
| [50.200] Air conditioning..... | 50.1 |
| Electrical systems | 55 |
| [55.100] Harnesses and connectors..... | 55.1 |
| [55.301] Alternator..... | 55.2 |

| | |
|--|-----------|
| [55.302] Battery..... | 55.3 |
| [55.011] Fuel tank system | 55.4 |
| [55.988] Selective Catalytic Reduction (SCR) electrical system | 55.5 |
| [55.989] Exhaust Gas Recirculation (EGR) electrical system | 55.6 |
| [55.012] Engine cooling system | 55.7 |
| [55.519] Cab brake controls | 55.8 |
| [55.030] Service brake electrical system | 55.9 |
| [55.031] Parking brake electrical system | 55.10 |
| [55.512] Cab controls..... | 55.11 |
| [55.051] Cab Heating, Ventilation, and Air-Conditioning (HVAC) controls..... | 55.12 |
| [55.050] Heating, Ventilation, and Air-Conditioning (HVAC) control system..... | 55.13 |
| [55.047] Steering control system | 55.14 |
| [55.530] Camera..... | 55.15 |
| [55.518] Wiper and washer system..... | 55.16 |
| [55.514] Cab lighting | 55.17 |
| [55.408] Warning indicators, alarms, and instruments | 55.18 |
| [55.DTC] FAULT CODES..... | 55.19 |
| Front loader and bucket..... | 82 |
| [82.300] Bucket..... | 82.1 |
| Platform, cab, bodywork, and decals | 90 |
| [90.150] Cab..... | 90.1 |
| [90.156] Cab glazing | 90.2 |
| [90.114] Operator protections | 90.3 |

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

<https://shopservicemanual.com/>

Service Manuals from 2\$