

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



# **SERVICE MANUAL CRAWLER EXCAVATOR**

## **CX800 TIER III**

87571787 NA

Issued 07-2006



---

# SERVICE MANUAL

---

## CRAWLER EXCAVATOR

---

### CX800 TIER III

---

---

CNH America LLC reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.

All data given in this publication is subject to production variations. Dimensions and weights are only approximate. Illustrations do not necessarily show products in standard condition. For exact information about any particular product, please consult your Dealer.

REVISION HISTORY			
Issue	Issue Date	Applicable Machines	Remarks
First Edition	07-2006	CX800 TIER III Crawler Excavator	87571787 NA

# CX800 Tier 3 Crawler Excavators

## Table of Contents

DIVISION/SECTION	SECTION N°	REFERENCE N°
<b>1 GENERAL INFORMATION</b>		
Safety, general information and standard torque data .....	1001	7-27691NA
General specifications and special torque setting .....	1002	9-94710NA
Numerical value conversion table .....	1003	9-35540
<b>2 ENGINE</b>		
Radiator and engine, removal and installation .....	2001	9-94910NA
Engine specifications- Refer to Engine Service Manual .....		9-36410NA
Disassembly and assembly of the engine-Refer to Engine Service Manual .....		9-36410NA
<b>3 FUEL SYSTEM</b>		
Fuel tank .....	3001	9-36821NA
Fuel engine system .....	*	
<b>4 ELECTRICAL SYSTEM</b>		
Electrical system, electrical and electronic troubleshooting .....	4001	9-94700NA
Inspection and maintenance of batteries and connecting a booster battery ....	4002	9-36830NA
Main and engine electronic control boxes .....	4003	9-94510NA
<b>5 UNDERCARRIAGE</b>		
Removal and installation of tracks .....	5001	9-36860NA
Rollers .....	5003	9-36881NA
Sprocket .....	5004	9-36890NA
Idler wheel and tension shock absorber .....	5005	9-94350NA
<b>6 DRIVE TRAIN</b>		
Drive motor and final drive transmission removal and installation .....	6001	9-36980NA
Drive motor and final drive transmission disassembly and assembly .....	6002	9-40351NA
Swing reduction gear, removal and installation .....	6003	9-36991NA
Swing reduction gear, disassembly and assembly .....	6004	9-42631NA
<b>7 UNDERCARRIAGE HYDRAULICS</b>		
<b>8 UPPERSTRUCTURE HYDRAULICS</b>		
Depressurising and decontaminating the hydraulic system, use of the vacuum pump and bleeding the components .....	8000	9-94430NA
Specifications, troubleshooting, checks and hydraulic pressure settings .....	8001	9-94740NA
Hydraulic reservoir removal and installation .....	8002	9-94490NA
Main and pilot pumps, removal and installation .....	8003	9-40771NA
Main hydraulic control valve, removal and installation .....	8004	9-94501NA
Attachment cylinders, removal and installation .....	8005	7-27792NA
Hydraulic swivel, removal and installation .....	8006	9-94600NA
Pilot blocs, removal and installation .....	8007	9-94520NA
Swing motor, removal and installation .....	8008	9-94420NA
Main hydraulic pump, disassembly and assembly .....	8010	9-94590NA
Main hydraulic control valve, disassembly and assembly .....	8011	9-94781NA
Attachment cylinders, disassembly and assembly .....	8012	9-40941NA
Hand control levers, disassembly and assembly .....	8013	9-94630NA
Foot control levers, disassembly and assembly .....	8014	9-40992NA
Six-solenoid valves, disassembly and assembly .....	8015	9-42521NA
Caution valve, disassembly and assembly .....	8016	9-94531NA
Safety valve .....	8017	9-42770NA
Hydraulic swivel, disassembly and assembly .....	8018	9-42511NA
Swing motor, disassembly and assembly .....	8019	9-42530NA
Hydraulic functions .....	8020	9-94720NA

DIVISION/SECTION	SECTION N°	REFERENCE N°
Fan motor, removal and installation .....	8022	9-94660NA
Fan motor, disassembly and assembly .....	8023	9-94670NA
Fan pump, removal, disassembly, assembly and installation .....	8024	9-94680NA
Hydraulic component functions .....	8030	9-94130NA
<b>9 UPPERSTRUCTURE</b>		
Upperstructure, turntable and counterweight .....	9002	9-42551NA
Boom, dipper and bucket .....	9003	9-42621NA
Seat and seat belt .....	9004	9-40960NA
Cab and cab equipment .....	9005	9-94650NA
Air conditioning troubleshooting .....	9006	██████████
Air conditioning unit disassembly and assembly .....	9007	9-94640NA
Air conditioning servicing .....	9008	██████████
Air conditioning components .....	9009	██████████
Removal and installation attachment, counterweight and side fram .....	9010	9-94730NA
Large format hydraulic schematic .....	Pocket	87528728
Large format electrical schematic .....	Pocket	87519792

\* Consult the Engine Service Manual 9-36410NA

██████████ Sections to be distributed at a later date

NOTE: CNH Company reserves the right to make changes in the specification and design of the machine without prior notice and without incurring any obligation to modify units previously sold.

The description of the models shown in this manual has been made in accordance with the technical specifications known as of the date of design of this document.