

# CRAWLER EXCAVATOR CX210B-CX230B-CX240B

## SERVICE MANUAL

### TABLE OF CONTENTS

DIVISION/SECTION	SECTION N°	REFERENCE N°
<b>1 GENERAL INFORMATION</b>		
Safety, general information and standard torque data .....	1001	7-27691EN
General specifications and special torque setting.....	1002	SC210B1002-0EN
<b>2 ENGINE</b>		
Removal and installation of the engine .....	2000	SM210B2000-0EN
Radiator and oil-cooler .....	2001	SM210B2001-0EN
Engine specifications .....	*	
Disassembly and assembly of the engine .....	*	
<b>3 FUEL SYSTEM</b>		
Fuel tank .....	3001	SM160B3001-0EN
Fuel engine system .....	*	
<b>4 ELECTRICAL SYSTEM</b>		
Electrical system, electrical and electronic troubleshooting.....	4001	SC210B4001-1EN
Electrical equipment and electrical circuit diagrams .....	4020	SC210B4020-0EN
<b>5 UNDERCARRIAGE</b>		
Removal and installation of tracks .....	5001	SM160B5001-0EN
Rollers .....	5003	SM160B5003-0EN
Sprocket .....	5004	SM160B5004-0EN
Idler wheel and tension shock absorber .....	5005	SM160B5005-0EN
<b>6 DRIVE TRAIN</b>		
Drive motor and final drive transmission removal and installation .....	6001	SM160B6001-0EN
Drive motor and final drive transmission disassembly and assembly .....	6002	SM160B6002-0EN
Swing reduction gear, removal and installation.....	6003	SM160B6003-0EN
Swing reduction gear, disassembly and assembly (CX210B - CX230B) .....	6004	SM210B6004-0EN
Swing reduction gear, disassembly and assembly (CX240B).....	6004	SM240B6004-0EN
<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	SM160B8000-0EN
Specifications, troubleshooting, checks and hydraulic pressure settings.....	8001	SC210B8001-2EN
Hydraulic reservoir removal and installation .....	8002	SM160B8002-0EN
Main and hydraulic pilot pumps, removal and installation .....	8003	SM210B8003-0EN
Main hydraulic control valve, removal and installation .....	8004	SM210B8004-0EN
Attachment cylinders, removal and installation .....	8005	SM160B8005-0EN
Hydraulic swivel, removal and installation .....	8006	SM160B8006-0EN
Pilot blocs, removal and installation .....	8007	SM160B8007-0EN
Swing motor, removal and installation.....	8008	SM160B8008-0EN
Main hydraulic pump, disassembly and assembly .....	8010	SM210B8010-0EN
Main hydraulic pump, disassembly and assembly (CX210B NLC) .....	8010	SM210BNLC8010-0EN
Hand control levers, disassembly and assembly .....	8013	SM160B8013-0EN
Foot control levers, disassembly and assembly .....	8014	SM160B8014-0EN
Caution valve, disassembly and assembly.....	8016	SM160B8016-0EN
Swing motor, disassembly and assembly (CX210B - CX230B).....	8019	SM160B8019-0EN
Swing motor, disassembly and assembly (CX240B).....	8019	SM240B8019-0EN
Hydraulic functions.....	8020	SC210B8020-1EN
Hydraulic component functions .....	8030	SC210B8030-0EN

DIVISION/SECTION	SECTION N°	REFERENCE N°
<b>9 UPPERSTRUCTURE</b>		
Quick coupler.....	9000	SM160B9000-0EN
Upperstructure, turntable and counterweight.....	9002	SM160B9002-0EN
Boom, dipper and bucket.....	9003	SM160B9003-0EN
Seat, removal and installation.....	9004	SM160B9004-0EN
Cab and cab equipment.....	9005	SM160B9005-0EN
Air conditioner functions and troubleshooting.....	9006	SC210B9006-0EN
Large size hydraulic schematics CX210B-CX230B .....	Pocket	87598349A
Large size hydraulic schematics CX240B.....	Pocket	87600987A
Large size electrical schematics .....	Pocket	87598355A

\* Consult the Engine Service Manual

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.

# **Section**

# **1001**


**SAFETY, GENERAL INFORMATION  
AND TORQUE SPECIFICATIONS**

TABLE OF CONTENTS

GENERAL INFORMATION ..... 3

SAFETY ..... 4

STANDARD TORQUE DATA FOR CAP SCREWS AND NUTS..... 6



**WARNING :** *This symbol is used in this manual to indicate important safety messages. Whenever you see this symbol, carefully read the message that follows, as there is a risk of serious injury.*

## GENERAL INFORMATION

### Cleanning

Clean all metal parts except bearings, in a suitable cleaning solvent or by steam cleaning. Do not use caustic soda for steam cleaning. After cleaning, dry and put oil on all parts. Clean oil passages with compressed air. Clean bearings in a suitable cleaning solvent, dry the bearings completely and put oil on the bearings.

### Inspection

Check all parts when the parts are disassembled. Replace all parts that have wear or damage. Small scoring or grooves can be removed with a hone or crocus cloth. Complete a visual inspection for indications of wear, pitting and the replacement of parts necessary to prevent early failures.

### Bearings

Check bearings for easy action. If bearings have a loose fit or rough action replace the bearing. Wash bearings with a suitable cleaning solvent and permit to air dry. **DO NOT DRY BEARINGS WITH COMPRESSED AIR.**

### Needle bearings

Before you press needle bearings in a bore always remove any metal protrusions in the bore or edge of the bore. Before you press bearings into position put petroleum jelly on the inside and outside diameter of the bearings.

### Gears

Check all gears for wear and damage. Replace gears that have wear or damage.

### Oil seals, O-rings and gaskets

Always install new oil seals, O-rings and gaskets. Put petroleum jelly on seals and O-rings.

### Shafts

Check all shafts that have wear or damage. Check the bearing and oil seal surfaces of the shafts for damage.

### Service parts

Always install genuine Case service parts. When ordering refer to the Parts Catalog for the correct part number of the genuine Case replacement items. Failures due to the use of other than genuine Case replacement parts are not covered by warranty.

### Lubrication

Only use the oils and lubricants specified in the Operator's or Service Manuals. Failures due to the use of non-specified oils and lubricants are not covered by warranty.

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)