

CX210B
CX230B
CX240B
Crawler Excavator

SERVICE MANUAL

Part number 47780297

English

October 2014

Copyright © 2014 CNH Industrial Italia S.p.A. All Rights Reserved.

CASE
CONSTRUCTION

CRAWLER EXCAVATOR CX210B-CX230B-CX240B SERVICE MANUAL

TABLE OF CONTENTS

DIVISION/SECTION	SECTION N°	REFERENCE N°
1 GENERAL INFORMATION		
Safety, general information and torque specifications.....	1001	7-27691EN
Specifications and special torque settings.....	1002	SC210B1002-1EN
2 ENGINE		
Removal and installation of the engine.....	2000	SM210B2000-1EN
Fuel-cooler, engine inter-cooler, radiator and oil-cooler.....	2001	SM210B2001-0EN
Removal and installation of the turbo charger.....	2004	SM210B2004-0EN
Removal and installation of EGR cooler and EGR valve.....	2005	SM210B2005-0EN
Removal and installation of the engine hood.....	2006	SM210B2006-0EN
Engine specifications.....	*	
Disassembly and assembly of the engine.....	*	
3 FUEL SYSTEM		
Removal and installation of the fuel tank.....	3001	SM210B3001-0EN
Removal and installation of the supply pump and common rail.....	3004	SM130B3004-0EN
Removal and installation of the injectors.....	3005	SM210B3005-0EN
Fuel engine system.....	*	
4 ELECTRICAL SYSTEM		
Service connector kit.....	4000	SM350B4000-1EN
Electrical and engine functions and service support.....	4001	SM210B4001-2EN
Removal and installation of the starter motor.....	4004	SM210B4004-0EN
Removal and installation of the alternator.....	4005	SM210B4005-0EN
Electrical equipment and electrical circuit diagrams.....	4020	SM210B4020-1EN
Engine error code (DTC).....	4021	SM210B4021-0EN
Main body error code (DTC).....	4022	SM210B4022-0EN
Troubleshooting, 4HK1 engine.....	4023	SM210B4023-0EN
5 UNDERCARRIAGE		
Removal and installation of tracks.....	5001	SM130B5001-0EN
Upper and lower rollers.....	5003	SM210B5003-0EN
Take-up roller.....	5005	SM210B5005-0EN
6 DRIVE TRAIN		
Removal and installation of the drive motor and final drive transmission.....	6001	SM130B6001-0EN
Disassembly and assembly of the drive motor and final drive transmission.....	6002	SM210B6002-0EN
Removal and installation of the swing motor and swing reduction gear, CX210B-CX230B.....	6003	SM210B6003-0EN
Removal and installation of the swing motor and swing reduction gear, CX240B.....	6003	SM240B6003-0EN
Disassembly and assembly of the swing reduction gear, CX210B-CX230B ...	6004	SM210B6004-1EN
Disassembly and assembly of the swing reduction gear, CX240B.....	6004	SM240B6004-1EN
7 UNDERCARRIAGE HYDRAULICS		

* Consult the Engine Service Manual

DIVISION/SECTION	SECTION N°	REFERENCE N°
8 UPPERSTRUCTURE HYDRAULICS		
Specifications, troubleshooting, inspections and hydraulic pressure settings.....	8001	SM210B8001-3EN
Removal and installation of the hydraulic reservoir	8002	SM210B8002-0EN
Removal and installation of the main hydraulic pump.....	8003	SM210B8003-1EN
Removal and installation of the main hydraulic control valve.....	8004	SM210B8004-1EN
Removal and installation of the attachment cylinders.....	8005	SM210B8005-0EN
Removal and installation of the hydraulic swivel.....	8006	SM210B8006-0EN
Removal and installation of the pilot function blocks.....	8007	SM210B8007-0EN
Disassembly and assembly of the main hydraulic pump	8010	SM210B8010-1EN
Disassembly and assembly of the main hydraulic pump, CX210B NLC.....	8010	SM210BNLC-8010-0EN
Disassembly and assembly of the main hydraulic control valve	8011	SM350B8011-0EN
Disassembly and assembly of the attachment cylinders	8012	SM130B8012-0EN
Disassembly and assembly of the hand control levers	8013	SM130B8013-0EN
Disassembly and assembly of the foot control pedals.....	8014	SM130B8014-0EN
Disassembly and assembly of the cushion control valve.....	8016	SM130B8016-0EN
Removal and installation of the safety valve	8017	SM210B8017-0EN
Disassembly and assembly of the swing motor, CX210B-CX230B	8019	SM210B8019-0EN
Disassembly and assembly of the swing motor, CX240B.....	8019	SM240B8019-1EN
Hydraulic functions	8020	SC210B8020-2EN
Hydraulic component functions.....	8030	SC210B8030-0EN
9 UPPERSTRUCTURE		
Removal and installation of the counterweight	9002	SM210B9002-0EN
Removal and installation of the boom, dipper and bucket	9003	SM210B9003-0EN
Removal and installation of the seat.....	9004	SM130B9004-0EN
Removal and installation of the cab and cab equipment	9005	SM130B9005-0EN
Air conditioner functions and troubleshooting.....	9006	SC210B9006-3EN
Air conditioning unit	9007	SM130B9007-0EN
Air conditioning components.....	9009	SM210B9009-0EN
Large size hydraulic schematics, CX210B.....	Pocket	KRJ10100
Large size hydraulic schematics, CX210B LR	Pocket	KRJ20680
Large size hydraulic schematics, CX210B-CX230B NLC & 2PC	Pocket	KRJ19670
Large size hydraulic schematics, CX240B.....	Pocket	KBJ12720
Large size hydraulic schematics, CX240B LR	Pocket	KBJ12740
Large size electrical schematics	Pocket	KRR13270
Large size electrical schematics	Pocket	KRR13280

NOTE: CNH Industrial Italia S.p.A. 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.

All data given in this manual is subject to production variations. Dimensions and weights are provided with approximate values and the machine fitting shown in the illustrations may not correspond with standard models. For precise information on specific machine models and versions, please contact your CASE dealer.

Reproduction or translation, even partial, is prohibited without written authorization from CNH Industrial Italia S.p.A.

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.*

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

<https://shopservicemanual.com/>

Service Manuals from 2\$