

CRAWLER EXCAVATOR CX160B-CX180B SERVICE MANUAL

TABLE OF CONTENTS

| DIVISION/SECTION | SECTION N° | REFERENCE N° |
|---|------------|----------------|
| 1 GENERAL INFORMATION | | |
| Safety, general information and standard torque data..... | 1001 | 7-27691EN |
| General specifications and special torque setting | 1002 | SM160B1002-1EN |
| 2 ENGINE | | |
| Removal and installation of the engine..... | 2000 | SM130B2000-0EN |
| Removal and installation of the fuel cooler, engine inter-cooler, radiator and oil cooler..... | 2001 | SM160B2001-0EN |
| Removal and installation of the turbo charger | 2004 | SM160B2004-0EN |
| Removal and installation of EGR cooler and EGR valve | 2005 | SM160B2005-0EN |
| Removal and installation of the engine hood..... | 2006 | SM130B2006-0EN |
| Engine specifications..... | * | |
| Disassembly and assembly of the engine | * | |
| 3 FUEL SYSTEM | | |
| Removal and installation of the fuel tank..... | 3001 | SM160B3001-0EN |
| Removal and installation of the supply pump and common rail | 3004 | SM160B3004-0EN |
| Removal and installation of the injectors | 3005 | SM160B3005-0EN |
| 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 | SM160B4004-0EN |
| Removal and installation of the alternator | 4005 | SM130B4005-0EN |
| Electrical equipment and electrical circuit diagrams..... | 4020 | SM210B4020-1EN |
| Engine error code (DTC) | 4021 | SM130B4021-0EN |
| Main body error code (DTC)..... | 4022 | SM130B4022-0EN |
| Troubleshooting, 4JJ1 engine..... | 4023 | SM130B4023-0EN |
| 5 UNDERCARRIAGE | | |
| Removal and installation of tracks | 5001 | SM160B5001-1EN |
| Rollers | 5003 | SM160B5003-1EN |
| 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 | SM160B6002-0EN |
| Removal and installation of the swing motor and swing reduction gear | 6003 | SM160B6003-1EN |
| Disassembly and assembly of the swing reduction gear | 6004 | SM210B6004-1EN |
| 7 UNDERCARRIAGE HYDRAULICS | | |

* Consult the Engine Service Manual

| DIVISION/SECTION | SECTION N° | REFERENCE N° |
|--|------------|----------------|
| 8 UPPERSTRUCTURE HYDRAULICS | | |
| 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 | SM160B8001-1EN |
| Removal and installation of the hydraulic reservoir | 8002 | SM160B8002-0EN |
| Removal and installation of the main hydraulic pump..... | 8003 | SM160B8003-0EN |
| Removal and installation of the main hydraulic control valve..... | 8004 | SM160B8004-0EN |
| Removal and installation of the attachment cylinders..... | 8005 | SM160B8005-0EN |
| Removal and installation of the hydraulic swivel..... | 8006 | SM160B8006-0EN |
| Removal and installation of the pilot blocs..... | 8007 | SM160B8007-1EN |
| Removal and installation of the swing motor | 8008 | SM160B8008-0EN |
| Disassembly and assembly of the main hydraulic pump | 8010 | SM160B8010-0EN |
| Disassembly and assembly of the main hydraulic control valve | 8011 | SM160B8011-0EN |
| 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 levers | 8014 | SM160B8014-1EN |
| Disassembly and assembly of the cushion valve..... | 8016 | SM160B8016-1EN |
| Removal and installation of the safety valve..... | 8017 | SM130B8017-0EN |
| Hydraulic swivel, disassembly and assembly | 8018 | SM160B8018-0EN |
| Disassembly and assembly of the swing motor | 8019 | SM210B8019-0EN |
| Hydraulic functions | 8020 | SM160B8020-2EN |
| Hydraulic component functions..... | 8030 | SM160B8030-1EN |
| 9 UPPERSTRUCTURE | | |
| Removal and installation of the counterweight | 9002 | SM160B9002-0EN |
| Removal and installation of the boom, dipper and bucket | 9003 | SM160B9003-0EN |
| 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 | SM210B9006-3EN |
| Air conditioning unit | 9007 | SM130B9007-0EN |
| Air conditioning components..... | 9009 | SM160B9009-0EN |
| Large size hydraulic schematics | Pocket | 87593994B |
| Large size electrical schematics | Pocket | 87594000B |

NOTE: CNH France S.A. 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.

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 France SA Company.