CX180 Crawler Excavators Table of Contents

DIVISI	ON/SECTION	SECTION N°	REFERENCE N°
1 G	GENERAL INFORMATION		
S	Safety, general information and standard torque data	1001	7-27690GB
	General specifications and special torque setting		7-27714GB
	·		
	ENGINE	0000	7.00000D
	Removal and installation of the engine		7-28220GB
	Radiator and oil-cooler		7-28040GB
	Engine specifications		
L	Disassembly and assembly of the engine		
3 F	FUEL SYSTEM		
	uel tank		7-27970GB
F	uel engine system	*	
4 E	ELECTRICAL SYSTEM		
	Electrical system, electrical and electronic troubleshooting	4001	7-27723GB
	nspection and maintenance of batteries and connecting a booster b		7-27921GB
	Main and engine electronic control boxes	•	7-27932GB
	-		. 2.00203
	JNDERCARRIAGE		
	Removal and installation of tracks		7-27750GB
	Rollers		7-27771GB
	Sprocket		7-27781GB
IC	dler wheel and tension shock absorber	5005	7-27802GB
6 D	DRIVE TRAIN		
D	Orive motor and final drive transmission removal and installation	6001	7-27841GB
	Prive motor and final drive transmission disassembly and assembly	6002	7-28090GB
	Swing reduction gear, removal and installation		7-29900GB
S	Swing reduction gear, disassembly and assembly	6004	7-28370GB
7 U	INDERCARRIAGE HYDRAULICS		
8 U	JPPERSTRUCTURE HYDRAULICS		
	Depressurising and decontaminating the hydraulic system, use of the	ι Δ	
L	vacuum pump and bleeding the components		7-27952GB
9	Specifications, troubleshooting, checks and hydraulic pressure setting		7-27932GB 7-27703GB
	Hydraulic reservoir removal and installation		7-27990GB
	Nain and pilot pumps, removal and installation		7-27871GB
	Nain hydraulic control valve, removal and installation		7-27880GB
	Attachment cylinders, removal and installation		7-27791GB
	lydraulic swivel, removal and installation		7-27811GB
	Pilot blocs, removal and installation		7-28130GB
	Swing motor, removal and installation		7-29890GB
	Main hydraulic pump, disassembly and assembly		9-35490FR
	Main hydraulic control valve, disassembly and assembly		7-28200FR
	Attachment cylinders, disassembly and assembly		7-27901GB
	land control levers, disassembly and assembly		7-28110GB
	Foot control levers, disassembly and assembly		7-28300FR
	Six-solenoid valves, disassembly and assembly		7-27911GB
	Caution valve, disassembly and assembly		7-27942GB
	Safety vave		7-29631GB
	lydraulic swivel, disassembly and assembly		7-28080GB
	Swing motor, disassembly and assembly		7-28010GB
H	lydraulic functions	8020	7-28481GB

DIVISION/SECTION	SECTION N°	REFERENCE N°
9 UPPERSTRUCTURE		
Upperstructure, turntable and counterweight	9002	7-27982GB
Boom, dipper and bucket	9003	7-27962GB
Seat and seat belt	9004	7-28120GB
Cab and cab equipment	9005	7-28022GB
Air conditioning troubleshooting	9006	
Air conditioning unit disassembly and assembly		
Air conditioning servicing		

Large format hydraulic schematicsPocket

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.

9-88430 9-88380

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.

Cre 9-36400GB Edition 04-03

^{*} Consult the Engine Service Manual

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.

SAFETY



This symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED. The message that follows the symbol contains important information about safety. Carefully read the message. Make sure you fully understand the causes of possible injury or death.

To prevent injury always follow the Warning, Caution and Danger notes in this section and throughout the manual.

Put the warning tag shown below on the key for the keyswitch when servicing or repairing the machine. One warning tag is supplied with each machine. Additional tags Part Number 331-4614 are available from your service parts supplier

.



WARNING: Read the operator's manual to familiarize yourself with the correct control functions.



WARNING: Operate the machine and equipment controls from the seat position only. Any other method could result in serious injury.



WARNING: This is a one man machine, no riders allowed.

WARNING: Before starting engine, study Operator's Manual safety messages. Read all safety signs on machine. Clear the area of other persons. Learn and practice safe use of controls before operating.



It is your responsibility to understand and follow manufacturers instructions on machine operation, service and to observe pertinent laws and regulations. Operator's and Service Manuals may be obtained from your Case dealer.



WARNING: If you wear clothing that is too loose or do not use the correct safety equipment for your job, you can be injured. Always wear clothing that will not catch on objects. Extra safety equipment that can be required includes hard hat, safety shoes, ear protection, eye or face protection, heavy gloves and reflector clothing.



WARNING: When working in the area of the fan belt with the engine running, avoid loose clothing if possible, and use extreme caution.



WARNING: When doing checks and tests on the equipment hydraulics, follow the procedures as they are written. DO NOT change the procedure.



WARNING: When putting the hydraulic cylinders on this machine through the necessary cycles to check operation or to remove air from a circuit, make sure all people are out of the way.



WARNING: Use insulated gloves or mittens when working with hot parts.



WARNING: Lower all attachments to the ground or use stands to safely support the attachments before you do any maintenance or service.

WARNING: Pin sized and smaller streams of hydraulic oil under pressure can penetrate the skin and result in serious infection. If hydraulic oil under pressure does penetrate the skin, seek medical treatment immediately. Maintain all hoses and tubes in good condition. Make sure all connections are tight. Make a replacement of any tube or hose that is damaged or thought to be damaged. DO NOT use your hand to check for leaks, use a piece of cardboard or wood.



WARNING: When removing hardened pins such as a pivot pin, or a hardened shaft, use a soft head (brass or bronze) hammer or use a driver made from brass or bronze and a steel head hammer.



WARNING: When using a hammer to remove and install pivot pins or separate parts using compressed air or using a grinder, wear eye protection that completely encloses the eyes (approved goggles or other approved eye protectors).



WARNING: Use suitable floor (service) jacks or chain hoist to raise wheels or tracks off the floor. Always block machine in place with suitable safety stands.



WARNING: When servicing or repairing the machine, keep the shop floor and operator's compartment and steps free of oil, water, grease, tools, etc. Use an oil absorbing material and/or shop cloths as required. Use safe practices at all times.



WARNING: Some components of this machine are very heavy. Use suitable lifting equipment or additional help as instructed in this Service Manual.



WARNING: Engine exhaust fumes can cause death. If it is necessary to start the engine in a closed place, remove the exhaust fumes from the area with an exhaust pipe extension. Open the doors and get outside air into the area.

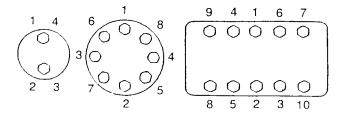


WARNING: When the battery electrolyte is frozen, the battery can explode if (1), you try to charge the battery, or (2), you try to jump start and run the engine. To prevent the battery electrolyte from freezing, try to keep the battery at full charge. If you do not follow these instructions, you or others in the area can be injured.

STANDARD TORQUE DATA FOR CAP SCREWS AND NUTS

Tightening of cap screws, nuts

Tighten alternately so that tightening torque can be applied evenly. The numbers in the figure below indicate the order of tightening.



JS00481A

Cap screws which have had Loctite used (white residue remains after removal) should be cleaned with loght oil or suitable cleaning solvent and dried. Apply 2-3 drops of Loctite to the thread portion of the cap screw and then tighten.

Torque table

Tighten cap screws and nuts according to the table below if there are no other special instructions.

Cap Screw Name Size (Size)		М6	M8	M10	M12	M14	M16	M18	M20	
	Spanner	[mm]	10	13	17	19	22	24	27	30
Cap Screw		[in.]	0.39	0.51	0.67	0.75	0.87	0.95	1.06	1.18
Cap Sciew	Tightening	[Nm]	6.9	15.7	32.3	58.8	98.0	137.2	196.0	274.0
	torque	[lb-ft]	5.1	11.6	23.9	43.4	72.3	101.2	144.6	202.4
	Spanner	[mm]	5	6	8	10	12	14	14	17
Socket Head Cap	Ораннен	[in.]	0.20	0.24	0.32	0.39	0.47	0.55	0.55	0.67
Screw	Tightening	[Nm]	8.8	21.6	42.1	78.4	117.6	176.4	245.0	343.0
	torque	[lb-ft]	6.5	15.9	31.1	57.8	86.8	130.1	180.8	253.1

Section 1002

GENERAL SPECIFICATIONS AND SPECIAL TORQUE SETTINGS

TABLE OF CONTENTS

TYPE, SERIAL NUMBER AND YEAR OF MANUFACTURE OF THE MACHINE	
Machine	
Engine Component serial numbers	
·	
FLUIDS AND LUBRICANTS	
Hydraulic fluid Transmission component oil	
Grease	
Engine oil	
Oil viscosity/Oil range	
Fuel	
Anti-freeze/Anti-corrosion Environment	
Components made from plastic or resin	
SPECIFICATIONS	
Engine	
Capacities	
Electrical system	
Hydraulic system	
Cylinder	
Control valve	
Travel	
Undercarriage	
Attachment	
Weight of components	10
DIMENSIONS AND LIMIT OF WEAR AND TEAR OF THE TRACKS SET	11
Toothed wheel	
Idler wheel	
Upper rollerLower roller	
Track	
DIMENSIONS AND LIMIT OF WEAR AND TEAR OF THE MOBILE JOINTS OF THE ATTACHMENT	
1. Boom foot/Undercarriage	
2. Boom cylinder foot/Undercarriage	
3. Boom cylinder head/Boom	17
4. Dipper cylinder foot/Boom	
5. Boom/Dipper	
Dipper cylinder head/Dipper Bucket cylinder foot/Dipper	
8. Connecting rod/Dipper	
9. Compensator/Bucket	
10. Connecting rod/Compensator/Bucket cylinder head	20
11. Dipper/Bucket	20
SPECIAL TORQUE SETTINGS	21
MACHINE OVERALL DIMENSIONS CX130 CX160	24
MACHINE OVERALL DIMENSIONS CX180	25

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.

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manuals007@hotmail.com