SERVICE MANUAL

Crawler

Excavator

CX330

9-53592

1. Trim along dashed line.
2. Slide into pocket on Binder Spine.

TYPE 1-4

SERVICE MANUAL

Crawler

Excavator

CX330

9-53592

1. Trim along dashed line.
2. Slide into pocket on Binder Spine.

TYPE 1-4

SERVICE MANUAL

Crawler

Excavator

CX330

9-53592

1. Trim along dashed line.
2. Slide into pocket on Binder Spine.

TYPE 1-4

SERVICE MANUAL

Crawler

Excavator

CX330

9-53592

1. Trim along dashed line.
2. Slide into pocket on Binder Spine.

TYPE 1-4

CX330 Crawler Excavators
Table of Contents

DIVISION/SECTION	SECTION N°	REFERENCE N°
1 GENERAL INFORMATION		
Safety, general information and standard torque data	1001	9-53360
General specifications and special torque setting	1002	9-53630
2 ENGINE		
Removal and installation of the engine	2000	9-43540GB
Radiator and oil-cooler	2001	9-43480GB
Engine specifications	*	
Disassembly and assembly of the engine	*	
3 FUEL SYSTEM		
Fuel tank	3001	9-43470GB
Fuel engine system	*	
4 ELECTRICAL SYSTEM		
Electrical system, electrical and electronic troubleshooting	4001	9-53640
Inspection and maintenance of batteries and connecting a booster battery	4002	9-43460GB
Main and engine electronic control boxes	4003	9-43450GB
5 UNDERCARRIAGE		
Removal and installation of tracks	5001	9-42910GB
Rollers	5003	9-42920GB
Sprocket	5004	9-36890GB
Idler wheel and tension shock absorber	5005	9-43000GB
6 DRIVE TRAIN		
Drive motor and final drive transmission removal and installation	6001	9-43140GB
Swing reduction gear, removal and installation	6003	9-43210GB
Swing reduction gear, disassembly and assembly	6004	9-43220GB
Travel reduction gear assembly and disassembly	6005	9-43150GB
7 UNDERCARRIAGE HYDRAULICS		
8 UPPERSTRUCTURE HYDRAULICS		
Depressurising and decontaminating the hydraulic system, use of the vacuum pump and bleeding the components	8000	9-43500GB
Specifications, troubleshooting, checks and hydraulic pressure settings	8001	9-53650
Hydraulic reservoir removal and installation	8002	9-43230GB
Main and pilot pumps, removal and installation	8003	9-43530GB
Main hydraulic control valve, removal and installation	8004	9-43260GB
Attachment cylinders, removal and installation	8005	9-43250GB
Hydraulic swivel, removal and installation	8006	9-43390GB
Pilot blocs, removal and installation	8007	9-43400
Swing motor, removal and installation	8008	9-43200GB
Free swing disassembly and assembly	8009	9-35530
Main hydraulic pump, disassembly and assembly (UCHIDA)	8010	9-43240GB
Main hydraulic pump, disassembly and assembly (KAWASAKI)	8010	9-43330GB
Main hydraulic control valve, disassembly and assembly	8011	9-43550GB
Attachment cylinders, disassembly and assembly	8012	9-43320GB
Hand control levers, disassembly and assembly	8013	9-43340GB
Foot control levers, disassembly and assembly	8014	7-28300GB
Six-solenoid valves, disassembly and assembly	8015	9-43360GB
Caution valve, disassembly and assembly	8016	7-27942GB
Anti-hose burst valve	8017	9-43380GB
Hydraulic swivel, disassembly and assembly	8018	9-43190GB
Swing motor, disassembly and assembly	8019	9-43440GB
Hydraulic functions	8020	9-53660
Travel hydraulic motor, disassembly and assembly	8021	9-43160GB

DIVISION/SECTION	SECTION N°	REFERENCE N°
9 UPPERSTRUCTURE		
Upperstructure, turntable bearing and counterweight	9002	9-43410GB
Boom, dipper and bucket	9003	9-43420GB
Seat and seat belt	9004	9-40960GB
Cab and cab equipment	9005	9-43430GB
Air conditioner troubleshooting and system checks	9006	9-88730GB
Air conditioning unit disassembly and assembly	9007	[redacted]
Air conditioning servicing	9008	[redacted]
Air conditioning components	9009	[redacted]
Attachment reinforcement procedures	9012	9-43920
Large format hydraulic and electrical schematics	Pocket	9-42721

Section

1001

SAFETY, GENERAL INFORMATION

GENERAL INFORMATION

Cleaning

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.

Place a “Do not operate“ tag on the starter switch key before carrying out any service or repair work on the machine.

.

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.*

BUY NOW

PayPal VISA MasterCard DISCOVER AMERICAN EXPRESS

Download the full PDF manual instantly.

Our customer service e-mail:

aservicemanualpdf@yahoo.com