

# **CX250C** Crawler Excavator

# SERVICE MANUAL

**Part number 47780401**

1<sup>st</sup> edition English  
September 2013

**CASE**  
CONSTRUCTION

Product: 2017 Case CX205C Crawler Excavator Service Manual 48090344  
Full Download: <https://www.arepairmanual.com/downloads/2017-case-cx205c-crawler-excavator-service-manual-48090344/>



## **SERVICE MANUAL**

**CX250C Crawler excavator LC version (Tier 4) - APAC Region - ANZ Market**

Sample manual. Download All pages at:

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EN

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## **INTRODUCTION**

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## INTRODUCTION

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## **Foreword - Important notice regarding equipment servicing**

All repair and maintenance work listed in this manual must be carried out only by qualified dealership personnel, strictly complying with the instructions given, and using, whenever possible, the special tools.

Anyone who performs repair and maintenance operations without complying with the procedures provided herein shall be responsible for any subsequent damages.

The manufacturer and all the organizations of its distribution chain, including - without limitation - national, regional, or local dealers, reject any responsibility for damages caused by parts and/or components not approved by the manufacturer, including those used for the servicing or repair of the product manufactured or marketed by the manufacturer. In any case, no warranty is given or attributed on the product manufactured or marketed by the manufacturer in case of damages caused by parts and/or components not approved by the manufacturer.

The manufacturer reserves the right to make improvements in design and changes in specifications at any time without notice and without incurring any obligation to install them on units previously sold. Specifications, descriptions, and illustrative material herein are as accurate as known at time of publication but are subject to change without notice.

In case of questions, refer to your CASE CONSTRUCTION Sales and Service Networks.

## Safety rules

### Personal safety



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible death or injury.

Throughout this manual you will find the signal words DANGER, WARNING, and CAUTION followed by special instructions. These precautions are intended for the personal safety of you and those working with you.

Read and understand all the safety messages in this manual before you operate or service the machine.

 DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury.

 WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.

 CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

**FAILURE TO FOLLOW DANGER, WARNING, AND CAUTION MESSAGES COULD RESULT IN DEATH OR SERIOUS INJURY.**

### Machine safety

**NOTICE:** Notice indicates a situation that, if not avoided, could result in machine or property damage.

Throughout this manual you will find the signal word Notice followed by special instructions to prevent machine or property damage. The word Notice is used to address practices not related to personal safety.

### Information

**NOTE:** Note indicates additional information that clarifies steps, procedures, or other information in this manual.

Throughout this manual you will find the word Note followed by additional information about a step, procedure, or other information in the manual. The word Note is not intended to address personal safety or property damage.

## **Safety rules – General information**

### **Cleaning**

Clean the metal parts with cleaning solution that meets the standard and steam cleaning. (except for bearings)

After cleaning, dry well, and inject oil in all parts.

Also inject oil into the bearings after drying.

### **Inspection**

When disassembling parts, check all the parts.

If there are any worn or damaged parts, replace them.

Inspect carefully to prevent initial breakdowns.

### **Bearing**

Replace any loose bearings.

Air dry bearings before installing them.

### **Needle bearing**

When inserting needle bearings, be very careful not to damage them.

Apply grease to the section where the needle bearing will be inserted.

### **Gear**

Check that there is no wear and no damage.

### **Oil seal, O-ring, gasket**

Always install new oil seals, O-rings, and gaskets.

Apply grease to sections where oil seals and O-rings will be inserted.

### **Shaft**

Check that there is no wear and no damage.

Check the bearings and check for damaged oil seals on the shaft.

### **Service parts**

Install CASE CONSTRUCTION genuine service parts.

When placing an order, check the parts catalog. It contains the CASE CONSTRUCTION genuine part numbers.

Any breakdowns arising from the installation of non-genuine parts are not covered by the warranty.

### **Lubricants (fuel, hydraulic oil)**

Use the oil from the specified company or specified in the operator's manual or service Manual.

Any breakdowns arising from any fuel or hydraulic oil other than those specified are not covered by the warranty.

## Safety rules

### WARNING:

This symbol indicates the need for caution.

Details are given concerning the safety of the operator and the surroundings.

Read all cautions carefully and understand them well before starting any work.

In order to prevent any accidents, always comply with warnings and cautions.

This section covers overall dangers.

Check if warning labels are installed.

Additional warning labels are available for order as a service part.

### WARNING:

Read this operator's manual well to have a thorough understanding of how to control and operate this machine.

### WARNING:

Always operate this machine from the seated position.

Any other method of operation has the danger of severe injury.

### WARNING:

This machine is for only 1 person to ride on. Do not ride 2 people on this machine.

### WARNING:

Before starting the engine, check the safety messages in this operator's manual.

Check all the warning labels on the machine.

Check that there is no one anywhere in or around the work range for the machine.

Check the operation methods in a safe location before starting the actual work.

Understand the operation of this machine well, then operate it according to service-related laws and ordinances.

The operator's manual and service manual can be ordered from any CASE CONSTRUCTION dealer.

### WARNING:

Working in untidy work clothes or in clothes with which safety cannot be ensured leads to damage to the machine and injury of the operator themselves.

Always work dressed for safety.

In order to work more safely, it is recommended to wear additional safety gear.

(Helmet, safety shoes, earplugs, goggles, work clothes, and gloves)

### WARNING:

Work with great care when the engine is running.

### WARNING:

Check and verify hydraulic equipment.

Work according to the procedure.

Do not change the procedure.

### WARNING:

When bleeding the pressure from hydraulic circuits to inspect the machine's hydraulic cylinders, make sure that there is no one in the vicinity before doing the work.

 WARNING:

Use gloves when handling hot parts.

 WARNING:

Lower the parts to the ground before inspecting or repairing attachments and lower parts.

 WARNING:

Check that all hoses and tubes are securely connected.  
Replace any damaged hose or tube.  
Do not use your hands to check for oil leaks. Use a piece of cardboard or wood.

 WARNING:

When removing an attachment pin or other hard pin, use a hammer with a soft head.

 WARNING:

When installing a pin with a hammer and working with a grinder, wear protective eyewear.  
At this time, use goggles or a protector that meets the standards.

 WARNING:

When repairing or inspecting, stop the machine at a safe location.

 WARNING:

When repairing the machine, protect the work site.  
Check the oil, coolant, grease, and tools.  
Collect materials and parts as necessary.  
Pay careful attention to work safely.

 WARNING:

Some of the machine's parts are extremely heavy.  
In this case, use an appropriate crane.  
For details on the weights and correct procedures, see the Service Manual.

 WARNING:

Exhaust gas is harmful.  
When working indoors or in any other enclosed space, always use good ventilation.

 WARNING:

If battery solution is frozen, there is a danger of it exploding.

## Safety rules – ROPS judgment method

### 1. Purpose

Check against the ROPS judgment criteria to judge whether the machine satisfies the ROPS criteria or not.

The weight and boom of the machine greatly effects whether the ROPS judgment criteria is satisfied or not.

The ROPS test assumes that the weight being used is the weight of the machine when the maximum number of selectable options are mounted (as of 2009).

However, depending on the derivative machinery or the order details, the weight and boom position may differ from the assumed weight or position.

### 2. Criteria for judging whether a machine satisfies the ROPS criteria

#### Weight

The weight must not be over the weight shown below for each class.

If the weight is exceeded, there is a danger that the cab could be damaged and the operator could die or sustain a serious injury when the machine falls over.

If the weight exceeds the stipulated weight, the machine will not satisfy the ROPS criteria.

- Weight (X3 model)

To satisfy the ROPS criteria, the weight must not be over the indicated weight. (The below weights are the weights indicated on the plate within the ROPS cab.)

| Machine body total weight     | Class                                   |
|-------------------------------|---|
| 16000 kg (35273.962 lb) max.  | CX75C<br>CX80C<br>CX145C                |
| 20500 kg (45194.764 lb) max.  | CX130C<br>CX160C                        |
| 28000 kg (61729.433 lb) max.  | CX235C                                  |
| 31000 kg (68343.301 lb) max.  | CX210C<br>CX250C<br>CX250C LR<br>CX300C |
| 50000 kg (110231.131 lb) max. | CX470C                                  |

\* The ROPS test assumes that the CX470C has a cage guard (alone).

- Weight (X2 model)

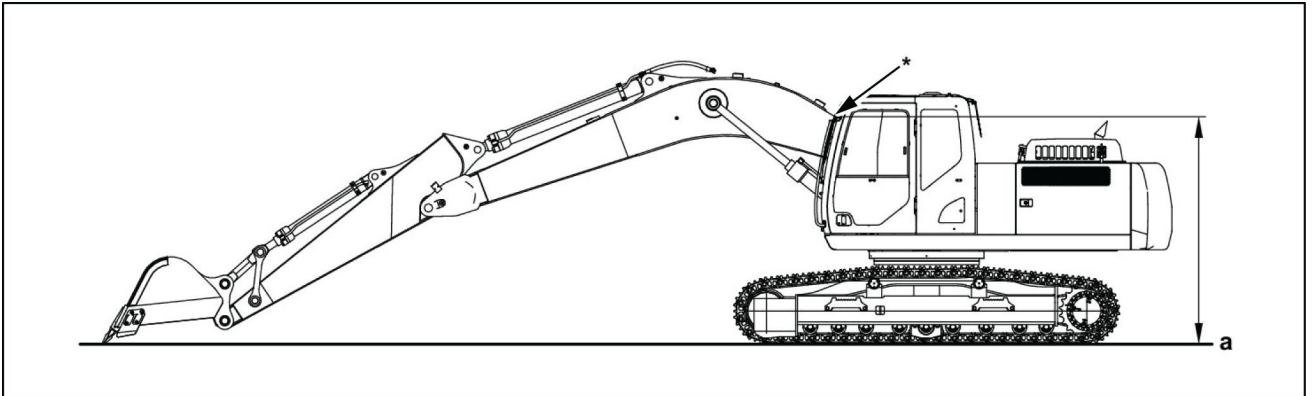
To satisfy the ROPS criteria, the weight must not be over the indicated weight. (The below weights are the weights indicated on the plate within the ROPS cab.)

| Machine body total weight    | Class  |
|------------------------------|--|
| 26600 kg (58642.962 lb) max. | CX130B<br>CX160B<br>CX180B<br>CX210B<br>CX240B |

## Boom position

### WARNING:

- If the machine has been modified so that the boom position has been lowered, the machine will not satisfy the ROPS criteria.
- It is necessary to consult with us if it is possible that the boom's position has been lowered by modification.
- The extent to which a boom position has moved cannot be determined in the same way for all machines.



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#### a. Ground point

With the tip of the bucket in contact with the ground surface at maximum work radius, if the position (\* in the diagram) that overlaps with the cab when viewed from the side is markedly lower than that of a standard machine (standard arm), the machine will not satisfy the ROPS criteria.

Also, with a machine body with a cab mounted that can withstand up to **31 t (68343.30 lb)**, the effect of mounting a **24 t (52910.94 lb)** machine, which is near the restriction weight, and a **21 t (46297.08 lb)** machine to the same cab will not be the same.

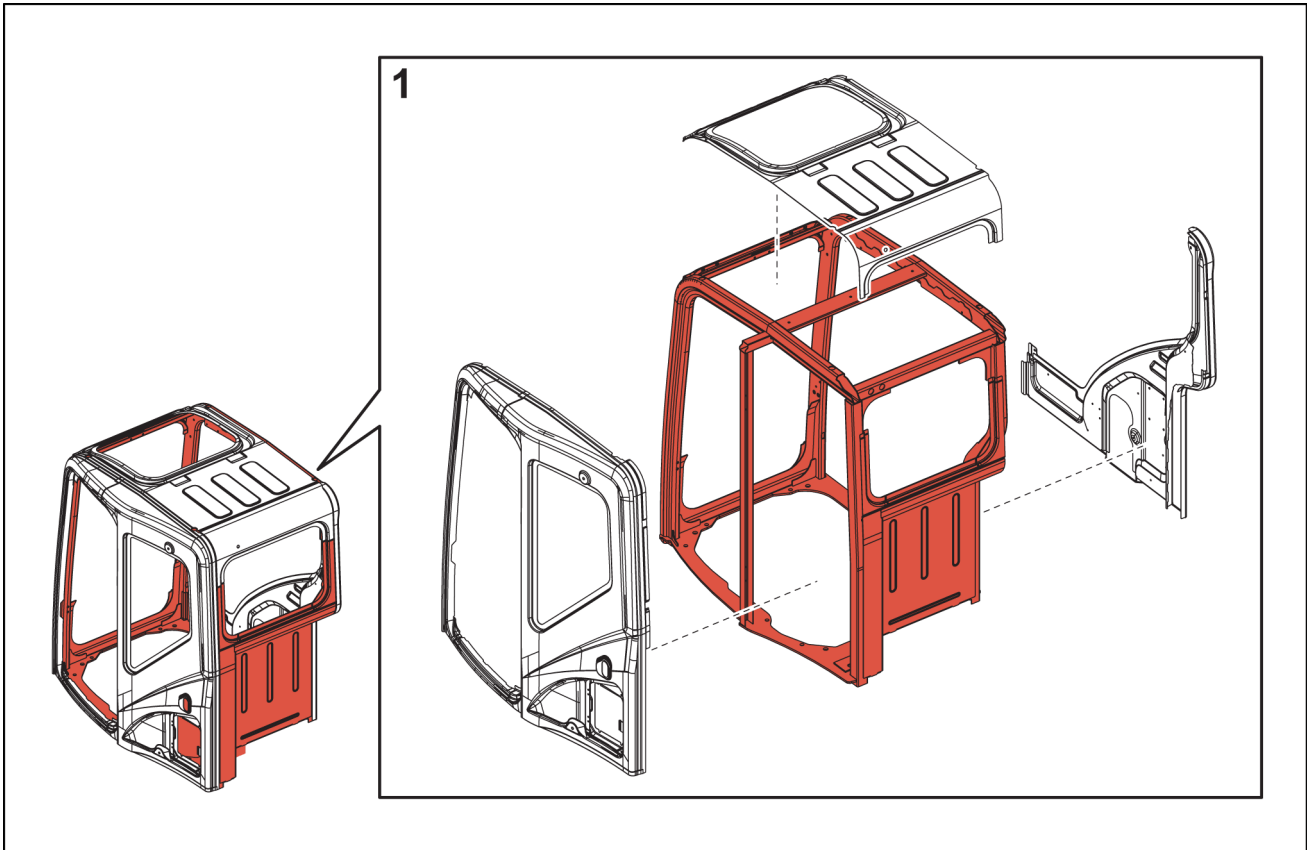
### 3. Prohibited items

- Modifications that reduce the strength of a platform that has a cab with a ROPS mounted to it. (Actions or modifications that reduce the functionality of the anchoring part at the left-rear of the cab)
- Modifications that effect the strength of the ROPS of a cab.

|   |   |
|---|---|
| Modification prohibited (red part)                  | All modifications (grinding, welding, drilling holes, removing, etc.) are prohibited  |
| Modification permitted under conditions (gray part) | Removal of parts is prohibited<br>Bar welding and making holes [up to diameter <b>20 mm (0.787 in)</b> ] by drilling are possible |

# INTRODUCTION

[X3 cab (CX75C/CX80C/CX145C)]

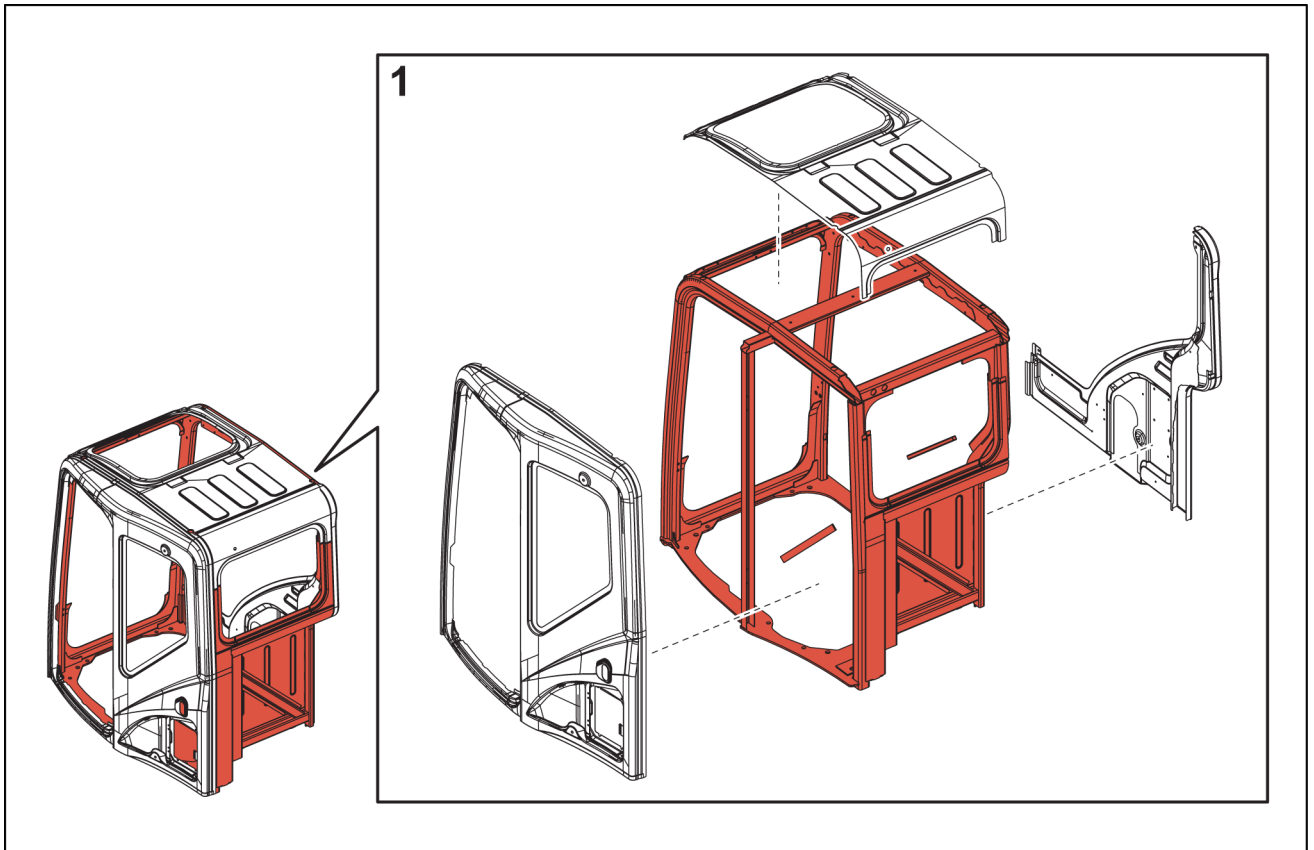


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# INTRODUCTION

[X3 cab (CX235C)]

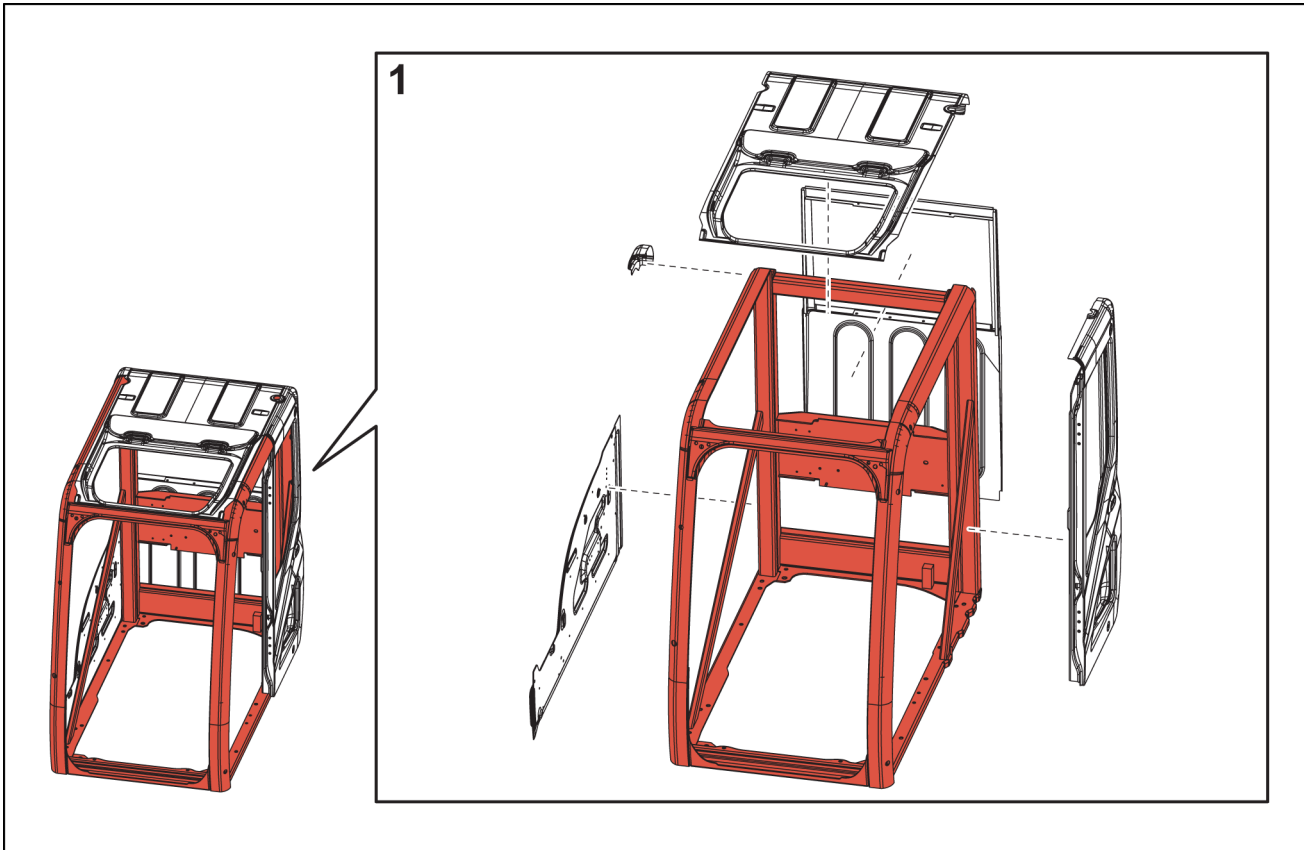
The cab for the MSR model (CX235C) is the cab of the MSR model on the diagram (CX75C/CX80C/CX145C) with reinforcement materials added in 3 locations.



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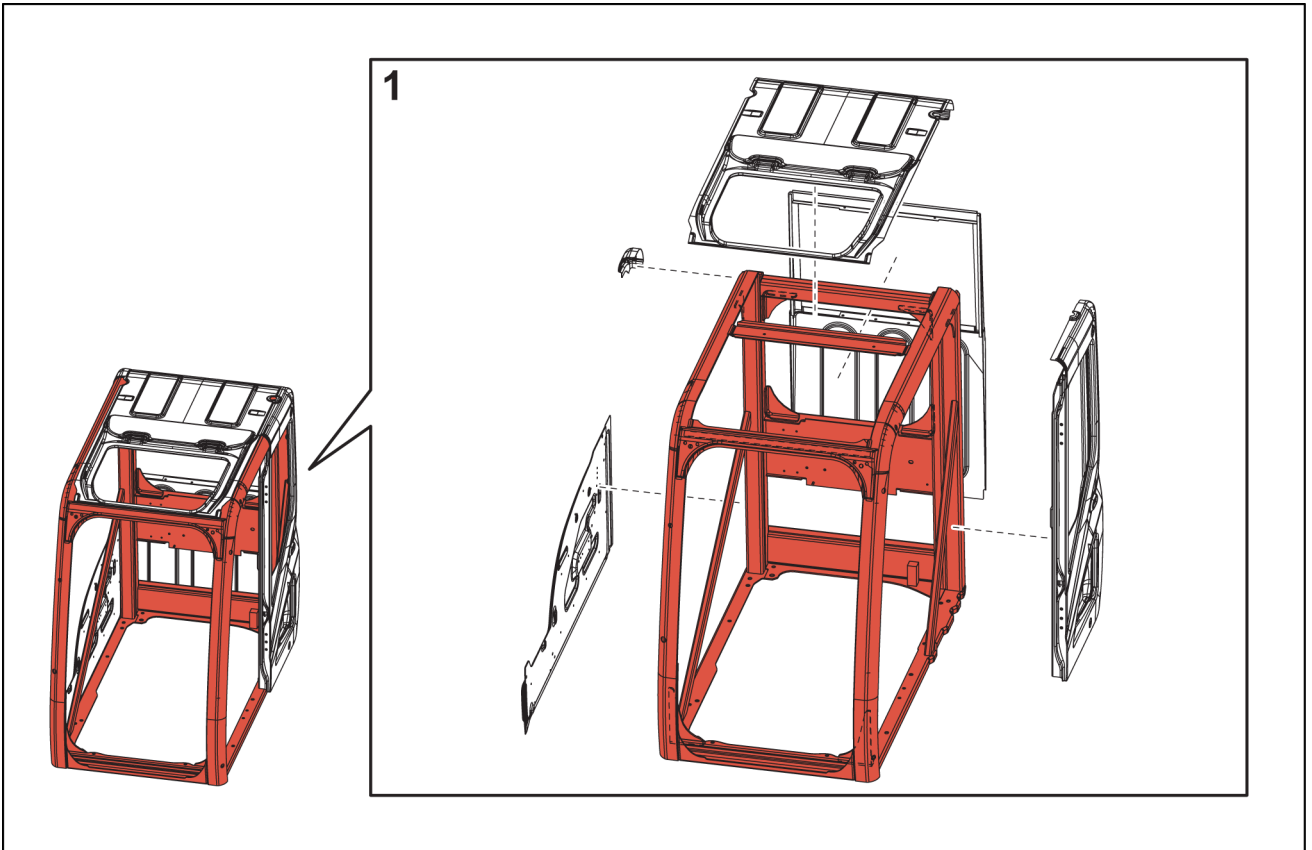
# INTRODUCTION

[X3 cab (CX130C/CX160C)]



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[X3 cab (CX210C/CX240C/CX290C)]

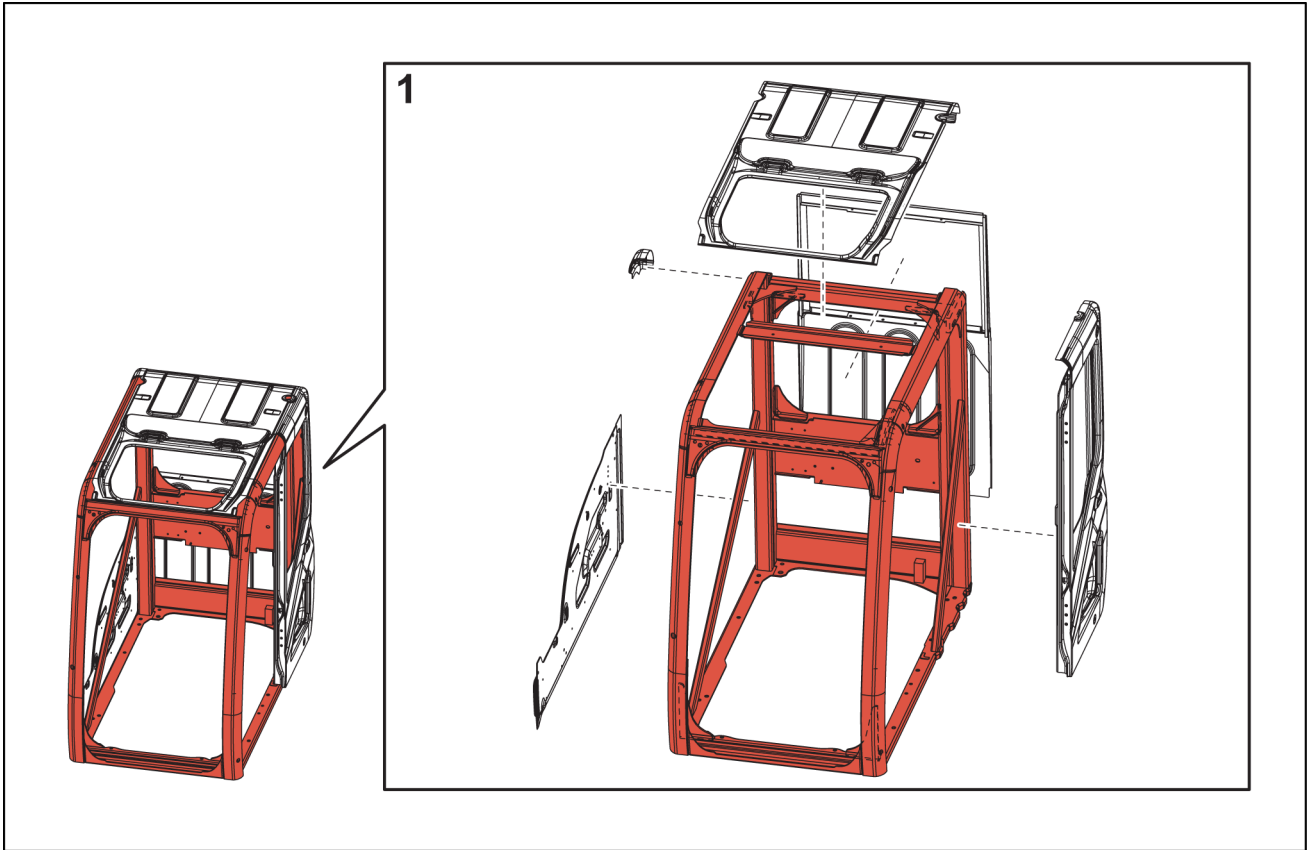


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# INTRODUCTION

[X3 cab (CX350C)]

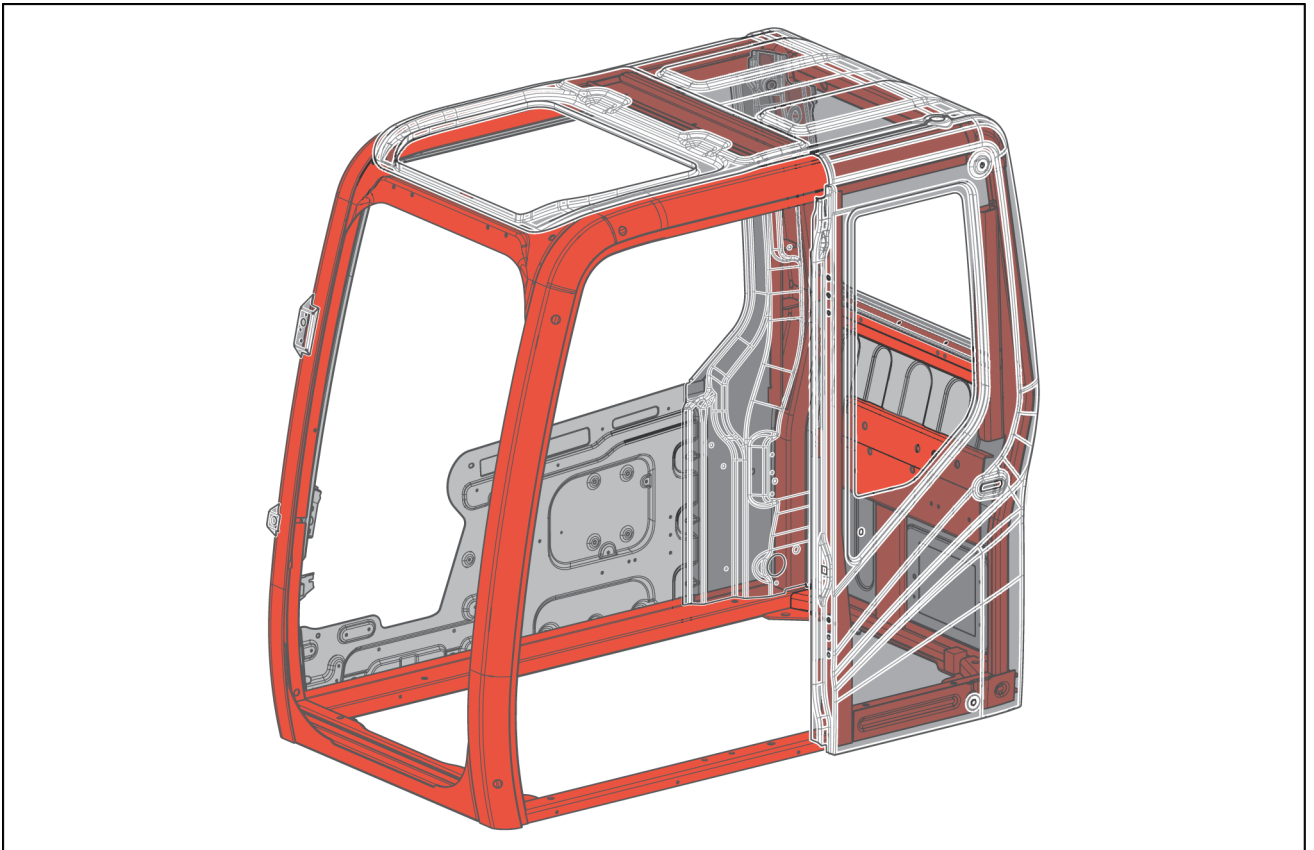
The cab for the large-sized model (CX350C) is the cab of the medium-sized model on the diagram (CX210C - CX290C) with reinforcement materials added in 7 locations.



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## INTRODUCTION

[X2 cab (CX130B/CX160B/CX210B/CX240B)]

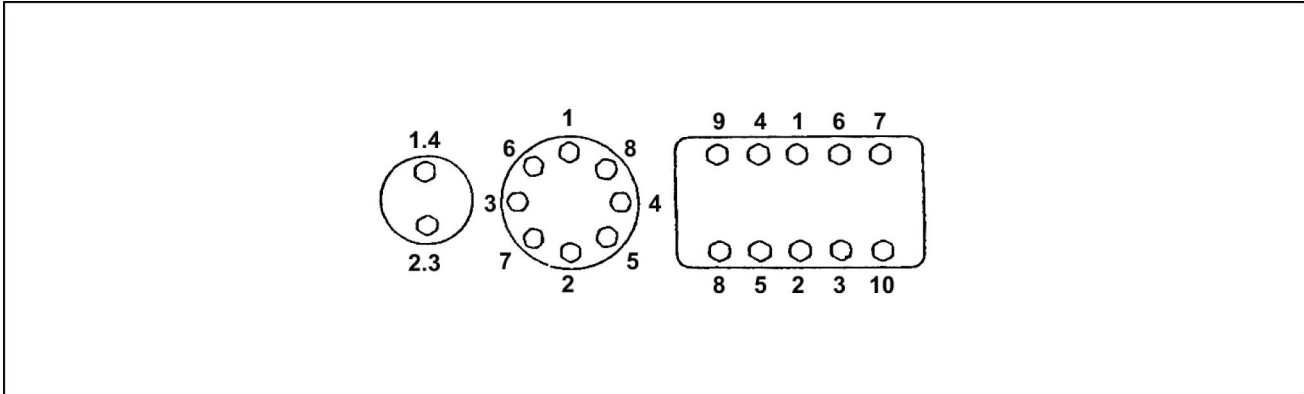


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- In general, high cabs do not satisfy the ROPS criteria. (It is necessary to consult with us to check if the high cab model satisfies the ROPS criteria.)

## Torque – Bolt and nut

- Tighten alternating between left and right and top and bottom so that uniform tightening force is applied.



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- If **LOCTITE®** was used on a removed bolt (there is something white sticking to the bolt when it is removed), clean the old **LOCTITE®** off with cleaning fluid, dry the bolt, then apply 2 - 3 drops of **LOCTITE®** to the thread section of the bolt.

### Torque table

| Bolt nominal diameter (size) |                   | M6                       | M8                         | M10                        | M12                        | M14                         | M16                                     | M18                                     | M20                                     |
|------------------------------|-------------------|--------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|---|---|---|
| Hexagon bolt                 | Wrench            | 10 mm                    | 13 mm                      | 17 mm                      | 19 mm                      | 22 mm                       | 24 mm                                   | 27 mm                                   | 30 mm                                   |
|                              | Tightening torque | 6.9 N·m<br>(5.089 lb ft) | 19.6 N·m<br>(14.456 lb ft) | 39.2 N·m<br>(28.912 lb ft) | 58.8 N·m<br>(43.369 lb ft) | 98.1 N·m<br>(72.355 lb ft)  | 156.9 N·m<br>(115.72 m (115.72 3 lb ft) | 196.1 N·m<br>(144.63 m (144.63 6 lb ft) | 294.2 N·m<br>(216.99 m (216.99 1 lb ft) |
| Hexagon socket head bolt     | Wrench            | 5 mm                     | 6 mm                       | 8 mm                       | 10 mm                      | 12 mm                       | 14 mm                                   | 14 mm                                   | 17 mm                                   |
|                              | Tightening torque | 8.8 N·m<br>(6.491 lb ft) | 21.6 N·m<br>(15.931 lb ft) | 42.1 N·m<br>(31.051 lb ft) | 78.5 N·m<br>(57.899 lb ft) | 117.7 N·m<br>(86.811 lb ft) | 176.5 N·m<br>(130.18 m (130.18 0 lb ft) | 245.2 N·m<br>(180.85 m (180.85 0 lb ft) | 343.2 N·m<br>(253.13 m (253.13 1 lb ft) |

## Torque – Special torque settings

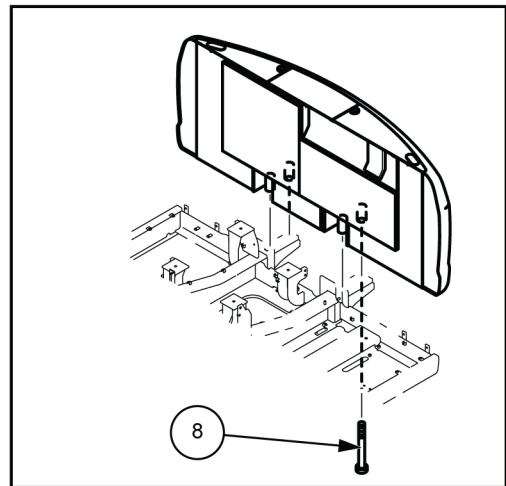
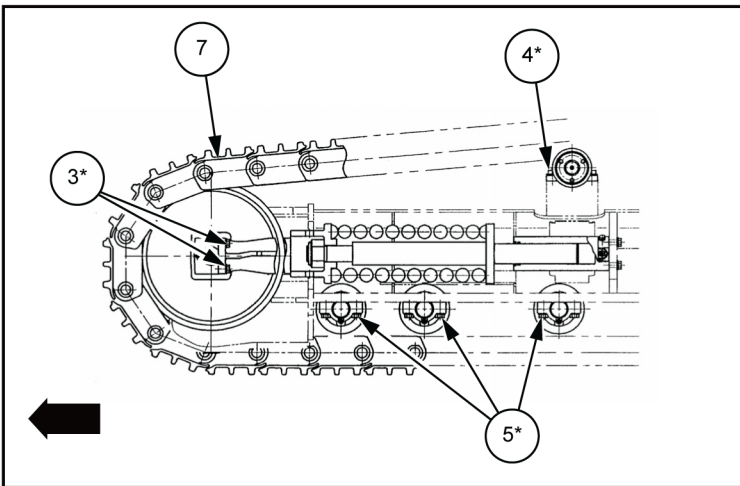
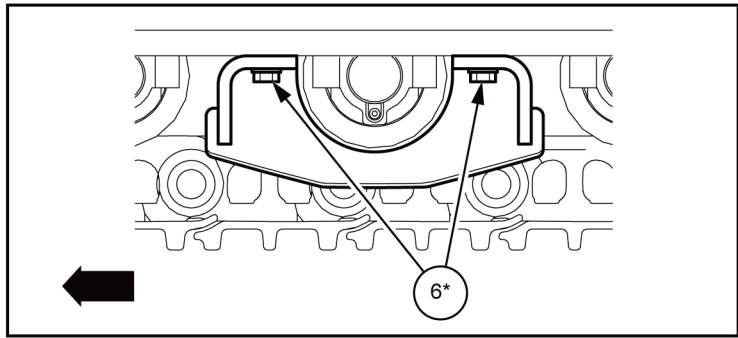
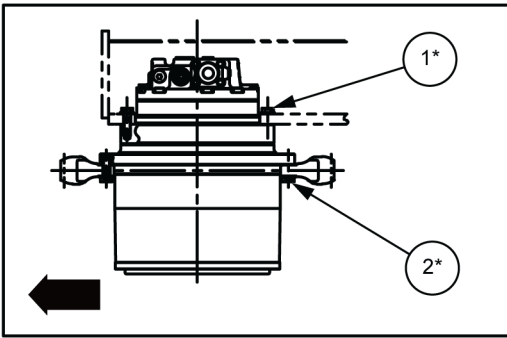
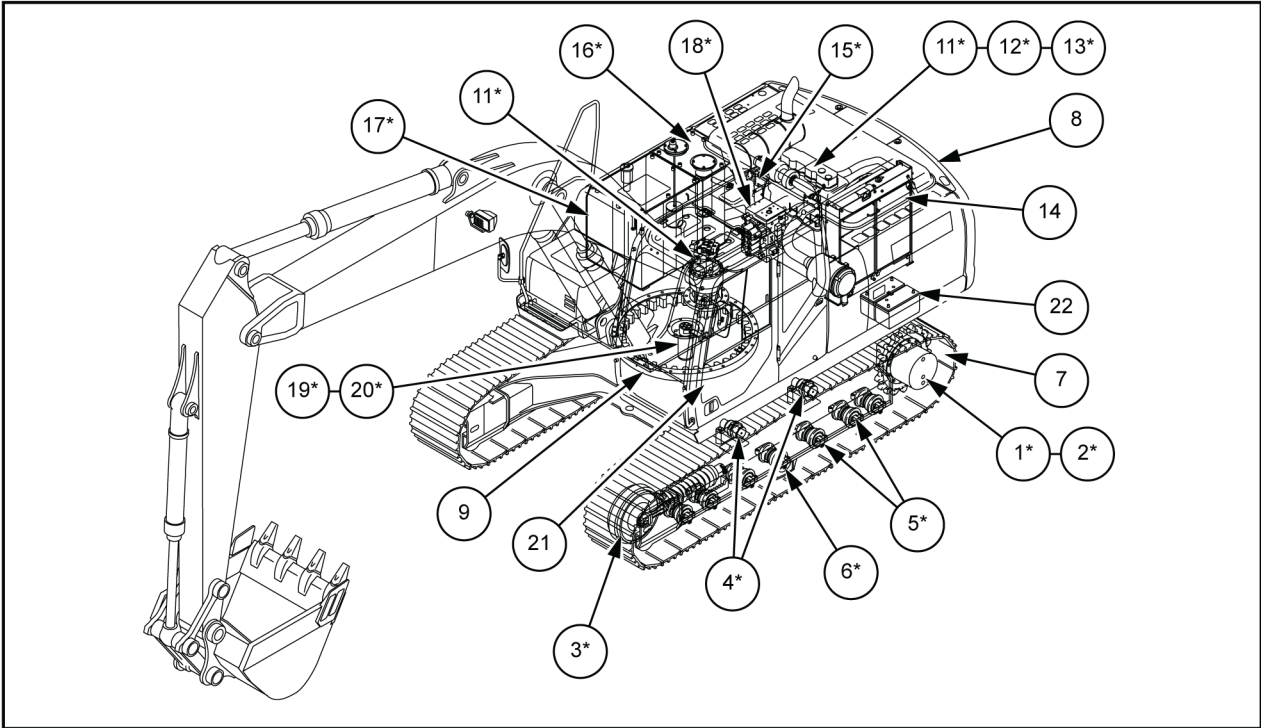
| Code | Retightening location |               | Bolt nominal diameter | Wrench                    | Tightening torque                         |
|------|-----------------------|---------------|-----------------------|---------------------------|---|
| 1*   | Travel motor          |               | M16                   | 24 mm                     | 267 - 312 N·m (196.93 - 230.12 lb ft)     |
| 2*   | Drive sprocket        |               | M16                   | 24 mm                     | 267 - 312 N·m (196.93 - 230.12 lb ft)     |
| 3*   | Take-up roller        |               | M16                   | 24 mm                     | 267 - 312 N·m (196.93 - 230.12 lb ft)     |
| 4*   | Upper roller          |               | M20                   | 30 mm                     | 521 - 608 N·m (384.27 - 448.44 lb ft)     |
| 5*   | Lower roller          |               | M18                   | 27 mm                     | 371 - 432 N·m (273.64 - 318.63 lb ft)     |
| 6*   | Track guard           |               | M18                   | 27 mm                     | 400 - 462 N·m (295.02 - 340.75 lb ft)     |
| 7    | Shoe                  |               | M20                   | 30 mm                     | 755 - 853 N·m (556.86 - 629.14 lb ft)     |
| 8    | Counterweight         |               | M33                   | 50 mm                     | 1862 - 2058 N·m (1373.34 - 1517.90 lb ft) |
| 9    | Turntable bearing     |               | M24                   | 36 mm                     | 784 - 914 N·m (578.25 - 674.13 lb ft)     |
| 10*  | Swing unit            |               | M24                   | 36 mm                     | 784 - 914 N·m (578.25 - 674.13 lb ft)     |
| 11*  | Engine                | Mount         | M16                   | 24 mm                     | 264.9 - 313.9 N·m (195.38 - 231.52 lb ft) |
| 12*  |                       | Front bracket | M10                   | 17 mm                     | 63.8 - 73.6 N·m (47.06 - 54.28 lb ft)     |
| 13*  |                       | Rear bracket  | M16                   | 24 mm                     | 205.9 - 247.1 N·m (151.86 - 182.25 lb ft) |
| 14   | Radiator              |               | M16                   | 24 mm                     | 147.2 - 176.6 N·m (108.57 - 130.25 lb ft) |
| 15*  | Hydraulic pump        | Pump          | M20                   | 17 mm hexagon socket head | 367 - 496 N·m (270.69 - 365.83 lb ft)     |
| 16*  | Hydraulic tank        |               | M16                   | 24 mm                     | 232.4 - 276 N·m (171.41 - 203.57 lb ft)   |
| 17*  | Fuel tank             |               | M16                   | 24 mm                     | 232.4 - 276 N·m (171.41 - 203.57 lb ft)   |
| 18*  | Control valve         |               | M16                   | 24 mm                     | 267 - 312 N·m (196.93 - 230.12 lb ft)     |
| 19*  | Center                | Lock bar      | M12                   | 19 mm                     | 88.3 - 107 N·m (65.13 - 78.92 lb ft)      |
| 20*  | Joint                 | Joint         | M12                   | 19 mm                     | 109 - 127 N·m (80.39 - 93.67 lb ft)       |
| 21   | Cab                   |               | M16                   | 24 mm                     | 149 - 173 N·m (109.90 - 127.60 lb ft)     |
| 22   | Battery               |               | M10                   | 17 mm                     | 19.6 - 29.4 N·m (14.46 - 21.68 lb ft)     |



**CAUTION:** For items marked with \*, always apply **LOCTITE® 262™** or the equivalent and tighten to the specified torque.

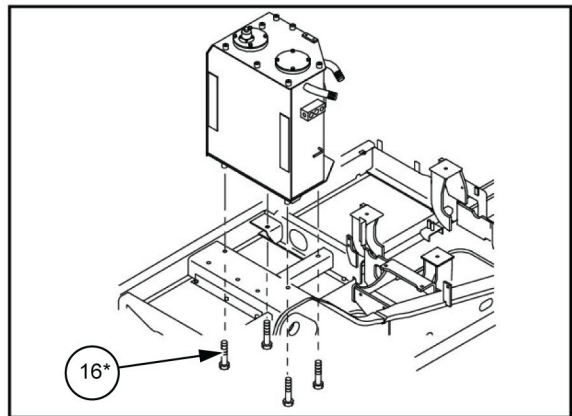
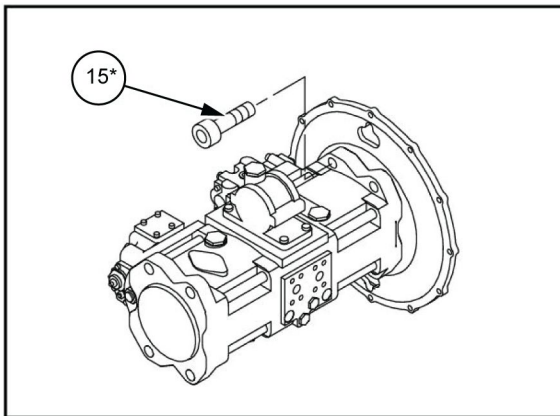
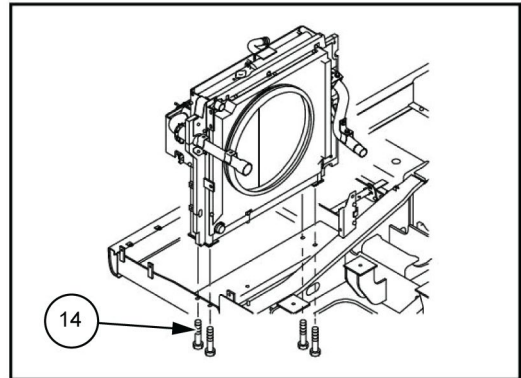
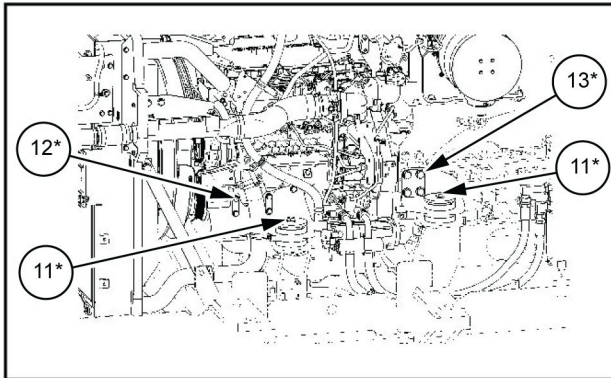
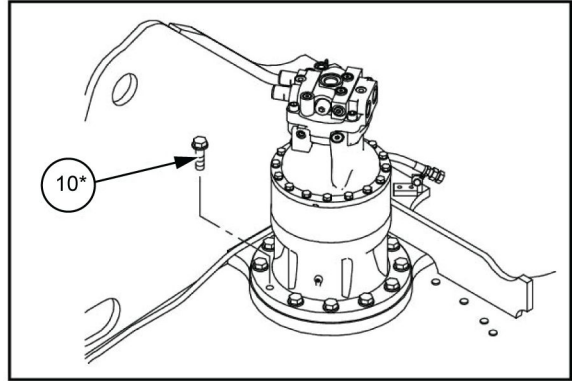
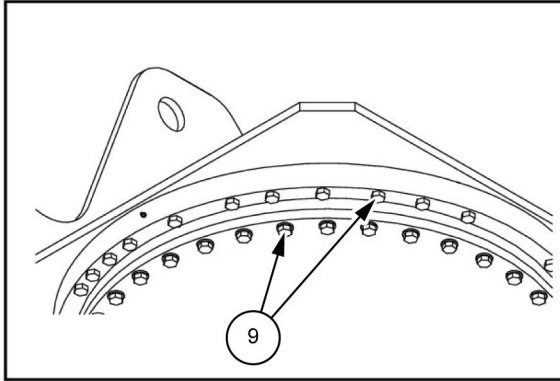
The tightening torque in kgf·m is determined with  $N \cdot m \div 9.8$  (  $lbf \cdot ft \div 7.2$  ).

INTRODUCTION



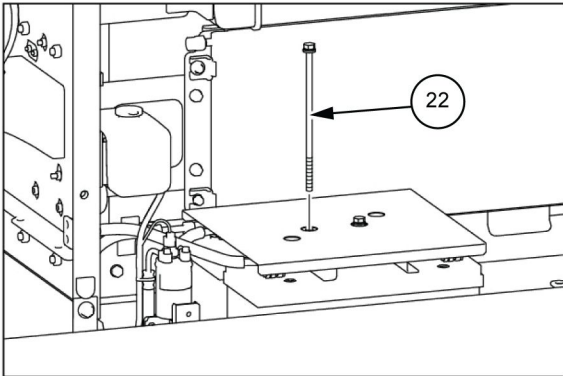
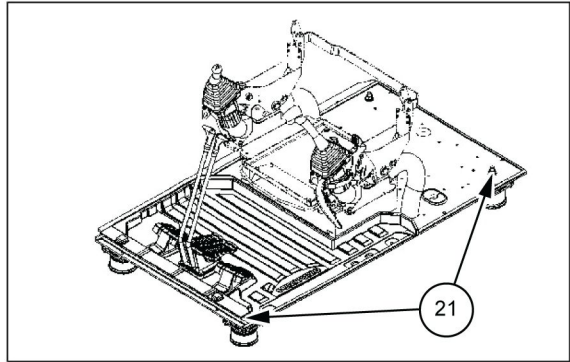
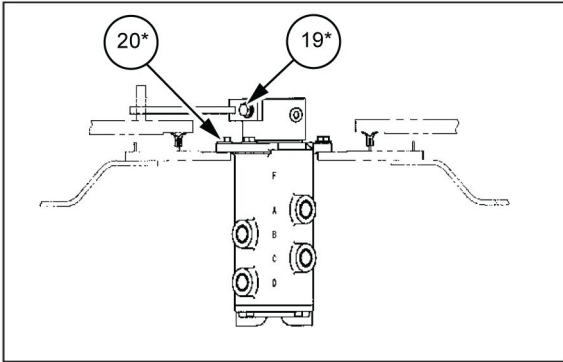
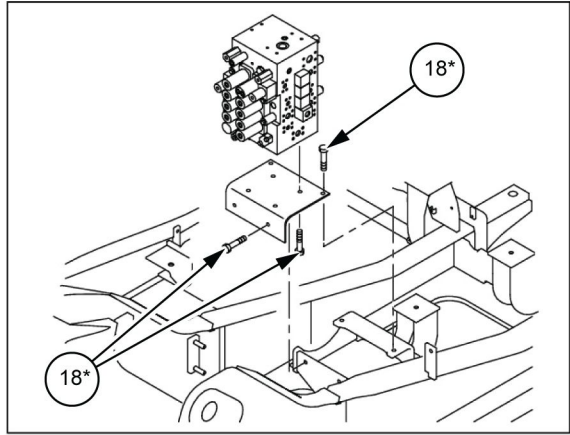
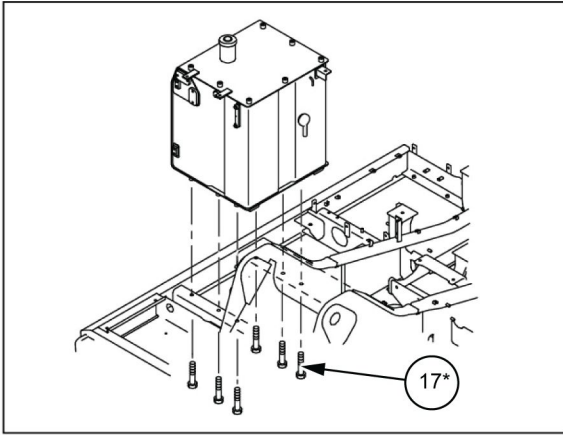
SMIL14CEX6819HB 1

# INTRODUCTION



SML13CEX1312GB 2

INTRODUCTION



SMIL13CEX1313GB 3

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## Basic instructions - Shop and assembly

### Shimming

For each adjustment operation, select adjusting shims and measure the adjusting shims individually using a micrometer, then add up the recorded values. Do not rely on measuring the entire shimming set, which may be incorrect, or the rated value shown on each shim.

### Rotating shaft seals

For correct rotating shaft seal installation, proceed as follows:

1. Before assembly, allow the seal to soak in the oil it will be sealing for at least thirty minutes.
2. Thoroughly clean the shaft and check that the working surface on the shaft is not damaged.
3. Position the sealing lip facing the fluid.

**NOTE:** *With hydrodynamic lips, take into consideration the shaft rotation direction and position the grooves so that they will move the fluid towards the inner side of the seal.*

4. Coat the sealing lip with a thin layer of lubricant (use oil rather than grease). Fill the gap between the sealing lip and the dust lip on double lip seals with grease.
5. Insert the seal in its seat and press down using a flat punch or seal installation tool. Do not tap the seal with a hammer or mallet.
6. While you insert the seal, check that the seal is perpendicular to the seat. When the seal settles, make sure that the seal makes contact with the thrust element, if required.
7. To prevent damage to the seal lip on the shaft, position a protective guard during installation operations.

### O-ring seals

Lubricate the O-ring seals before you insert them in the seats. This will prevent the O-ring seals from overturning and twisting, which would jeopardize sealing efficiency.

### Sealing compounds

Apply a sealing compound on the mating surfaces when specified by the procedure. Before you apply the sealing compound, prepare the surfaces as directed by the product container.

### Spare parts

Only use CNH Original Parts or CASE CONSTRUCTION Original Parts.

Only genuine spare parts guarantee the same quality, duration, and safety as original parts, as they are the same parts that are assembled during standard production. Only CNH Original Parts or CASE CONSTRUCTION Original Parts can offer this guarantee.

When ordering spare parts, always provide the following information:

- Machine model (commercial name) and Product Identification Number (PIN)
- Part number of the ordered part, which can be found in the parts catalog

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## Protecting the electronic and/or electrical systems during charging and welding

To avoid damage to the electronic and/or electrical systems, always observe the following practices:

1. Never make or break any of the charging circuit connections when the engine is running, including the battery connections.
2. Never short any of the charging components to ground.
3. Always disconnect the ground cable from the battery before arc welding on the machine or on any machine attachment.
  - Position the welder ground clamp as close to the welding area as possible.
  - If you weld in close proximity to a computer module, then you should remove the module from the machine.
  - Never allow welding cables to lie on, near, or across any electrical wiring or electronic component while you weld.
4. Always disconnect the negative cable from the battery when charging the battery in the machine with a battery charger.

**NOTICE:** *If you must weld on the unit, you must disconnect the battery ground cable from the machine battery. The electronic monitoring system and charging system will be damaged if this is not done.*

5. Remove the battery ground cable. Reconnect the cable when you complete welding.

### **WARNING**

**Battery acid causes burns. Batteries contain sulfuric acid.**

**Avoid contact with skin, eyes or clothing. Antidote (external): Flush with water. Antidote (eyes): flush with water for 15 minutes and seek medical attention immediately. Antidote (internal): Drink large quantities of water or milk. Do not induce vomiting. Seek medical attention immediately. Failure to comply could result in death or serious injury.**

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## Special tools

The special tools that CASE CONSTRUCTION suggests and illustrate in this manual have been specifically researched and designed for use with CASE CONSTRUCTION machines. The special tools are essential for reliable repair operations. The special tools are accurately built and rigorously tested to offer efficient and long-lasting operation.

By using these tools, repair personnel will benefit from:

- Operating in optimal technical conditions
- Obtaining the best results
- Saving time and effort
- Working in safe conditions

## General specification

### Engine

|  |   |
|--|---|
| Type                                       | Water - cooled, 4 - cycle diesel, 4 - cylinder in line, High pressure common rail system (electric control), Turbocharger with air cooled intercooler, DPD system |
| Model                                      | ISUZU AL - 4HK1X  |
| Rated flywheel horse power (SAE J1349 NET) | <b>132.1 kW (179.61 Hp) at 2000 RPM</b>   |
| Piston displacement                        | <b>5.193 L (1.37185 US gal)</b>   |
| Maximum torque (SAE J1349 NET)             | <b>621 N·m (458.03 lb ft) at 1800 RPM</b>   |
| Bore and stroke                            | <b>115 mm (4.528 in) x 125 mm (4.921 in)</b>  |
| Voltage                                    | <b>24 V</b>   |
| Alternator                                 | <b>50 A</b>   |
| Starter                                    | <b>24 V 5.0 kW</b>  |

### Hydraulic system

|                          |  |   |
|--------------------------|--|---|
| Main pumps               | 2 variable displacement axial piston pumps with regulating system                        |   |
| Max. oil flow            | <b>2 x 234 L/min (61.816 US gpm) at 2000 RPM</b>   |   |
| Working circuit pressure | Boom / Arm / Bucket  | <b>34.3 MPa (4975.215 psi)</b><br><b>36.8 MPa (5337.975 psi) with auto power up</b> |
|                          | Swing circuit  | <b>28.9 MPa (4192.051 psi)</b>  |
|                          | Travel circuit   | <b>34.3 MPa (4975.126 psi)</b>  |
| Pilot pump               | 1 gear pump  |   |
| Max. oil flow            | <b>20 L/min (5.283 US gpm)</b>   |   |
| Working circuit pressure | <b>3.9 MPa (565.710 psi)</b>   |   |
| Control valves           | With Boom / Arm holding valve  |   |
|                          | One 4 - spool valve for Right track travel, Boom and Arm acceleration                    |   |
|                          | One 5 - spool valve for Left track travel, Auxiliary, Swing, Boom acceleration and Arm   |   |
| Swing device             |  |   |
| Motor                    | Fixed displacement axial piston motor  |   |
| Brake                    | Mechanical disc brake  |   |
| Final drive              | Planetary gear reduction   |   |
| Turn table bearing       | Ball bearing type with internal gear   |   |
| Maximum swing speed      | <b>10.6 RPM</b>  |   |
| Swing torque             | <b>74900 N·m (55243.40 lb ft)</b>  |   |
| Cylinders                | NO. of cylinders – bore x rod diameter x stroke  |   |
| Boom                     | 2 x Ø <b>130 mm (5.118 in)</b> - Ø <b>90 mm (3.543 in)</b> - <b>1335 mm (52.559 in)</b>  |   |
| Arm                      | 1 x Ø <b>145 mm (5.906 in)</b> - Ø <b>105 mm (4.134 in)</b> - <b>1660 mm (68.386 in)</b> |   |
| Bucket                   | 1 x Ø <b>130 mm (5.119 in)</b> - Ø <b>90 mm (3.543 in)</b> - <b>1070 mm (42.126 in)</b>  |   |
| Cooling system           |  |   |
| Fan                      | Ø <b>650 mm (25.591 in)</b> with 7 - blades  |   |
| Radiator capacity        | <b>105.9 kW</b>  |   |
|                          | fin type   | Corrugated fin (wavy type)  |
|                          | fin space  | <b>1.75 mm (0.06890 in)</b>   |
| Long life coolant        | Coolant <b>55 %</b> , Water <b>45 %</b>  |   |
| Oil cooler capacity      | <b>54.1 kW</b>   |   |
|                          | fin type   | Corrugated fin (wavy type)  |
|                          | fin space  | <b>1.75 mm (0.06890 in)</b>   |
| Intercooler capacity     | <b>16.7 kW</b>   |   |
|                          | fin type   | Straight fin  |
|                          | fin space  | <b>1.75 mm (0.06890 in)</b>   |
| Fuel cooler capacity     | <b>1.3 kW</b>  |   |

Sample cooler capacity. All pages at:

<https://www.arepairmanual.com/downloads/2017-case-cx205c-crawler-excavator-service-manual-48090344/>