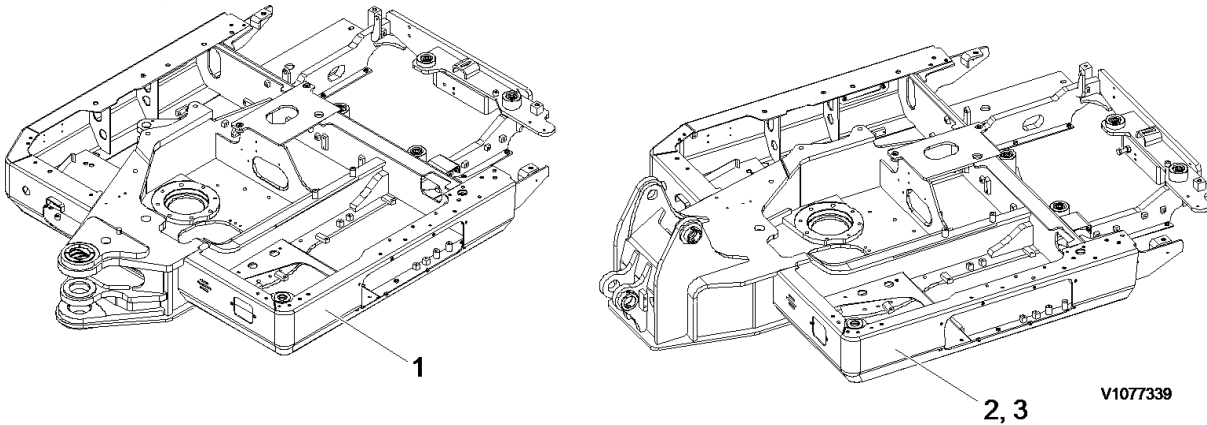


Document Title: <b>Frame and track unit, description</b>	Function Group: <b>700</b>	Information Type: <b>Service Information</b>	Date: <b>2014/4/14</b>
Profile: <b>CEX, EC60C [GB]</b>			

## Frame and track unit, description

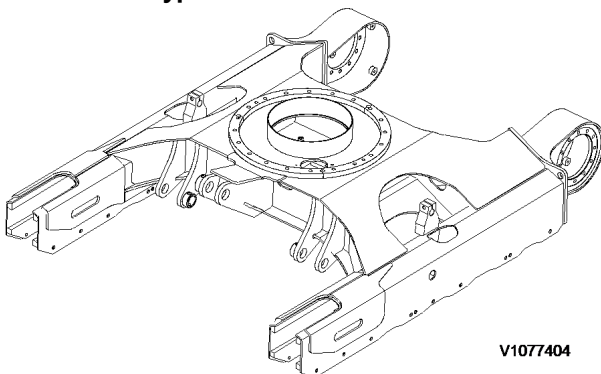
### Upper frame type



**Figure 1**  
**Upper frame**

1. Boom Swing type (Weight: 662.9 kg)
2. Boom Fix type (Weight: 696.5 kg)
3. Boom Fix for Wood grab type (Weight: 697.1 kg)

### Lower frame type



**Figure 2**  
**Lower frame**

- Lower frame (Weight: 547 kg)

Document Title: <b>Superstructure, removal</b>	Function Group: <b>710</b>	Information Type: <b>Service Information</b>	Date: <b>2014/4/14</b>
Profile: <b>CEX, EC60C [GB]</b>			

## Superstructure, removal

Op nbr 00000

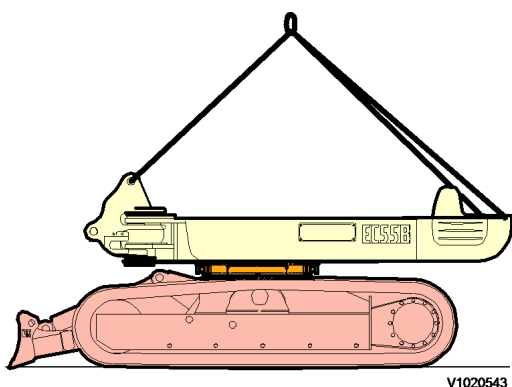
### **WARNING**

The superstructure is heavy. Pay attention to safe footing and the area around the crane before proceeding to remove or install the superstructure.

1. Remove the digging unit.
2. Dismantle the cab and engine hood.
3. Disconnect hydraulic oil hoses, drain hose, and one servo hydraulic oil hose from center passage.

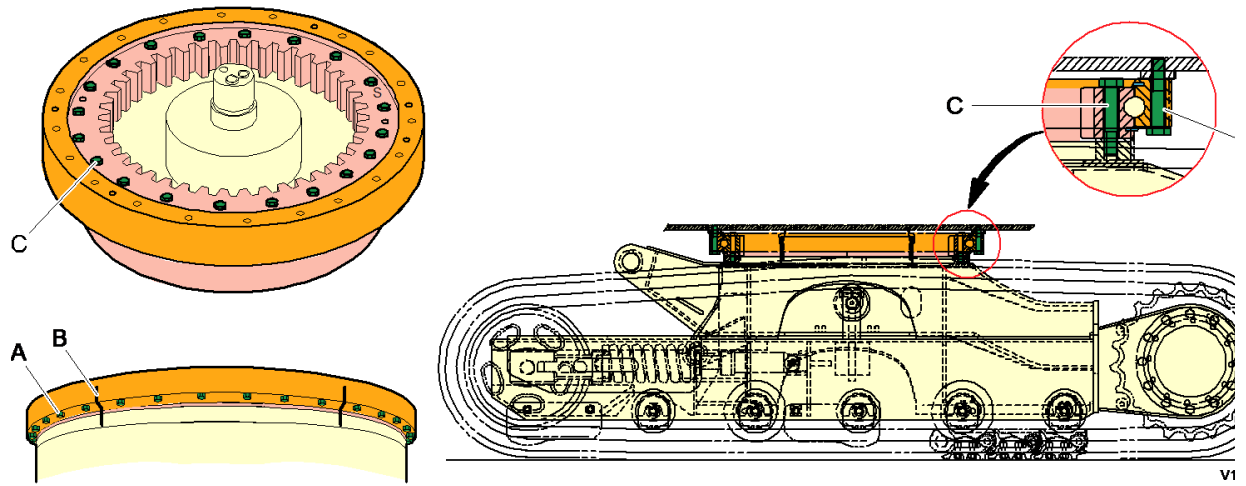
**NOTE!**

Bundle the hoses. Blind plug each disconnected hose and pipe.



**Figure 1**  
**Lifting the superstructure**

4. Place a wire rope on the superstructure and lift it with a crane to an extent that the wire rope is not slack.
5. Remove screws (A) fixing the outer race of the slew ring.
6. Lift the superstructure just a little, and after confirming safety all around, lift it up and out.



**Figure 2**  
**Slew ring installed**

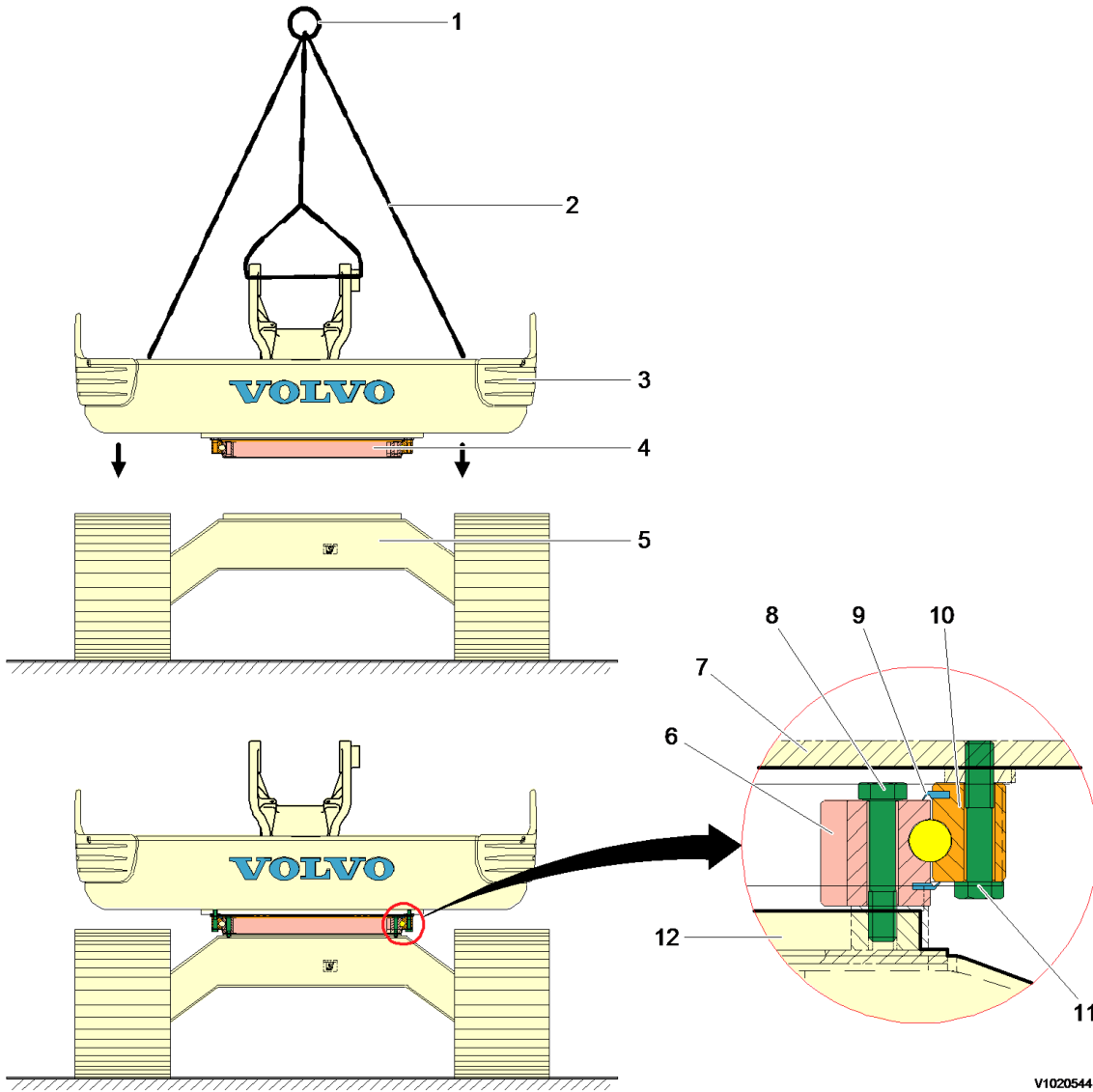
- A. Screw
- B. Confirm alignment of match marks
- C. Screw

Document Title: <b>Superstructure, installation</b>	Function Group: <b>710</b>	Information Type: <b>Service Information</b>	Date: <b>2014/4/14</b>
Profile: <b>CEX, EC60C [GB]</b>			

## Superstructure, installation

Op nbr 00000

1. Bundle the hoses attached to the center passage together and place them upright.
2. Coat the screws and threaded holes of the slew ring with liquid packing ("Loctite 1215" equivalent to loctite # 515).
3. Coat the superstructure of the slew ring gear with liquid gasket loctite before assembling.
4. Lift the superstructure and install it to the slew ring.  
**NOTE!**  
Lower the superstructure so that the slew pinion and the slew ring are engaged.
5. Tighten screws (8, 11).  
**NOTE!**  
Tightening torque : 261.83 ±26.47 N m (26.7 ±2.7 kgf m) (193 ±20 lbf ft)  
**NOTE!**  
Tighten diagonally opposite screws in sequence.
6. After tightening screws on the superstructure side, coat the thread projecting part of the upper base plate and dowel pin head part with liquid gasket loctite.
7. Connect the hoses, center passage clamping screw and seal cover disconnected for removal.



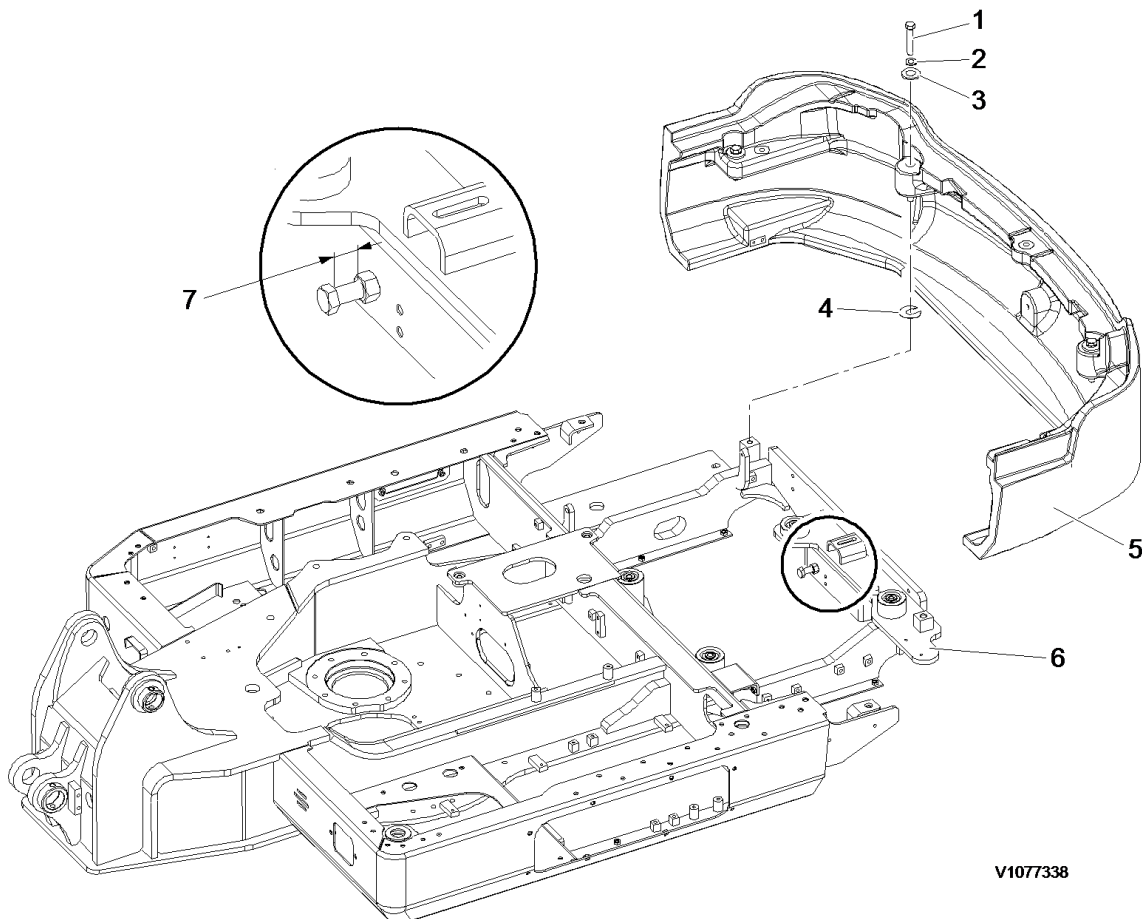
V1020544

**Figure 1**  
**Installing the superstructure**

1	Slack	5	Undercarriage	9	Seal
2	Rope	6	Inner race (slew ring gear)	10	Outer race (slew ring gear)
3	Superstructure	7	Superstructure	11	Screw
4	Slew ring gear	8	Screw	12	Undercarriage

Document Title: <b>Counterweight, description</b>	Function Group: <b>716</b>	Information Type: <b>Service Information</b>	Date: <b>2014/4/14</b>
Profile: <b>CEX, EC60C [GB]</b>			

## Counterweight, description



**Figure 1**  
**Counterweight**

1. Screws (Tightening torque: 174 ±17 Nm, 17.7 ±1.7 kgf m, 128 ±12 lbf ft)
2. Washer
3. Spring washer
4. Shim
5. Counterweight
6. Upper frame
7. 28 mm (1.10 inch) (Tightening torque: 174 ±17 Nm, 17.7 ±1.7 kgf m, 128 ±12 lbf ft)

**NOTE!**

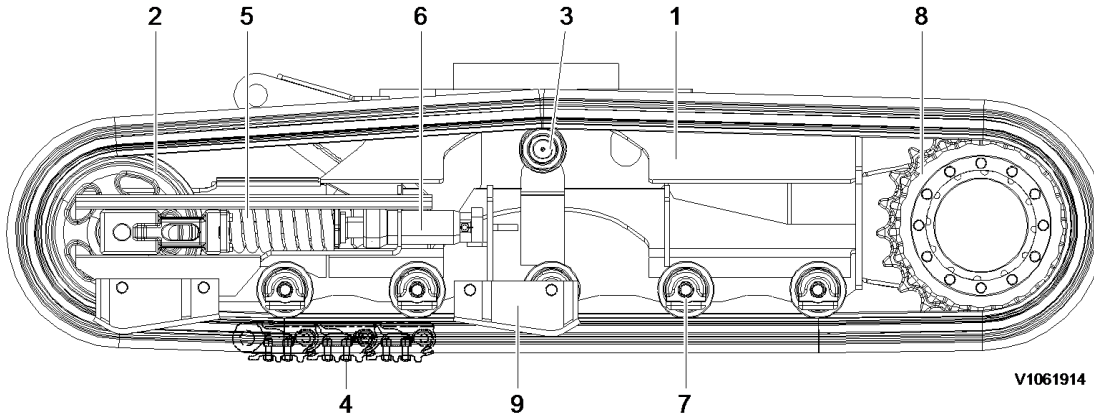
Coat loctite (#277 or 609) on screws.

Document Title: <b>Undercarriage, description</b>	Function Group:	Information Type: <b>Service Information</b>	Date: <b>2014/4/14</b>
Profile: <b>CEX, EC60C [GB]</b>			

## Undercarriage, description

Undercarriage consists of idlers, springs, top and bottom rollers, sprockets, track links, track frame and track guards.

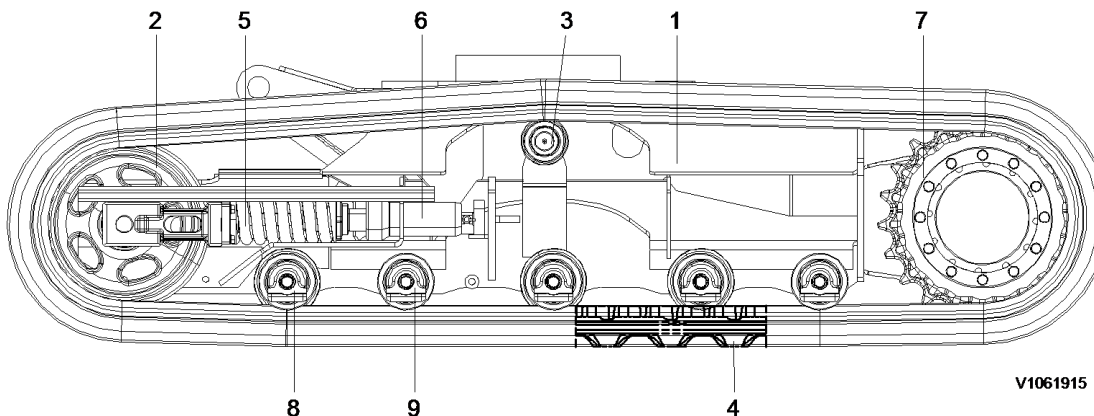
### Steel track



**Figure 1**  
**Structure, undercarriage (steel)**

1	Track frame	6	Tension cylinder
2	Idler	7	Bottom roller
3	Top roller	8	Sprocket
4	Track chain	9	Track guard
5	Recoil spring		

### Rubber track



**Figure 2**  
**Structure, undercarriage (rubber)**

1	Track frame	6	Tension cylinder
2	Idler for rubber track	7	Sprocket

3	Top roller	8	Bottom roller (center flange roller)
4	Rubber track	9	Bottom roller (side flange roller)
5	Recoil spring for rubber track		



Document Title: <b>Selection of track shoes</b>	Function Group: <b>775</b>	Information Type: <b>Service Information</b>	Date: <b>2014/4/14</b>
Profile: <b>CEX, EC60C [GB]</b>			

## Selection of track shoes

Choose suitable track shoes to match the ground conditions.

### Method of selecting shoes

Confirm the category from the list of uses in the "category" table then use the "Selection" table to select the shoe.

Category "B" is for optional shoes, so there are restrictions on their use. Therefore, before using, check the restrictions and consider carefully the conditions of use before selecting a suitable shoe width. If necessary, give the customer guidance in their use.

When selecting the shoe width, select the narrowest possible within the range that will give no problem with flotation and ground pressure. If a wider shoe than necessary is used, there will be a large load on the shoe, and this may lead to bending of the shoe, cracking of the links, breakage of the pins, loosening of the shoe screws, or other problems.

### Category, track shoes

Category	Use	Precautions when using
A	Rocky ground, normal soil	Travel in low speed when traveling on rough ground with obstacles such as large boulders and fallen trees.
	Soft ground	Travel in high speed only on flat ground. When it is impossible to avoid traveling over obstacles, lower the travel speed to approximate half of low speed. <b>NOTE!</b> Cannot be used on rough ground where there are large obstacles such as boulders and fallen trees.
B	Pavement	Use only on pavement to protect the rubber pad shoe. Be careful for working on concrete crushed pieces or sand, on reinforcing bars or protected pieces of glass, on concrete sideways, rocky ground and on stony river beds. Be careful not to slip on water, snow, or sand. Especially, be careful when loading and unloading the machine.

### Track shoes

Type	Width, mm (inch)	Category
Steel track	380 (15.0)	A
Steel track	500 (19.7)	A
Rubber track	400 (15.7)	B

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