VOLVO
Construction Equipment

Service Information

Document Title: **Frame and track unit, specifications**	Function Group: **700**	Information Type: **Service Information**	Date: **2014/6/25**
Profile:			

Frame and track unit, specifications

Specifications

Item		**Unit**	**EC210**	**EC240**
Length of undercarriage		mm	4460	4650
		inch	175.6	183.1
Track link pitch		mm	190	
		inch	7.5	
No. of links		EA	49	51
No. of top roller		EA	2 × 2	2 × 2
No. of bottom roller		EA	9 × 2	9 × 2
Spring	Type	–	Hydraulic adjuster (grease)	
	Spring, set length	mm (in)	444 (17.5)	468 (18.4)
	Spring, free length		555 (21.9)	570 (22.4)
	Set load	kg (lbs)	13309 ± 800 (29280 ± 1760)	14916 ± 800 (32815 ± 1760)
	Adjust	mm	–20 ~ +100	
		inch	–0.79 ~ +3.94	
Sprocket	No. of tooth	EA	21	21
	Pitch circle diameter	mm	644.6	644.6
		inch	25.3	25.3
No. of shoes		EA	98	102
Ground contact pressure with standard digging unit (boom, arm, and bucket)	600 mm width (Triple grouser)	kgf / cm2	0.43	0.47
		psi	6.11	6.69
	700 mm width (Triple grouser)	kgf / cm2	0.38	0.41
		psi	5.40	5.83
	800 mm width (Triple grouser)	kgf / cm2	0.33	0.36
		psi	4.69	5.12
	900 mm width (Triple grouser)	kgf / cm2	0.30	0.33
		psi	4.26	4.69
	910 mm width (Swamp)	kgf / cm2	0.30	0.32
		psi	4.26	4.55

Document Title: **Upper frame (Superstructure), removal**	Function Group: **710**	Information Type: **Service Information**	Date: **2014/6/25**
Profile:			

Upper frame (Superstructure), removal

WARNING

The superstructure weigh approximate 4 ~ 7 tons (excluding counterweight and digging units). 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. Disconnect turning joint clamping screw, seal cover, hydraulic oil hoses, drain hose, and one servo hydraulic oil hose from turning joint.
   NOTE!
   Bundle the hoses. Blind plug each disconnected hose and pipe.
3. Remove screws (A) fixing the outer race of the slew ring.

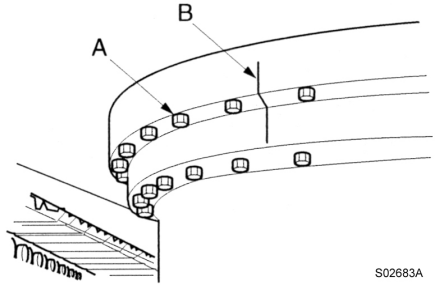

Figure 1
Slew ring installed

A. Screw
B. Confirm alignment of match marks

4. Dismantle the cab, counterweight and guard. Place a wire rope on the upper frame and lift it with a crane to an extent that the wire rope is not slack.

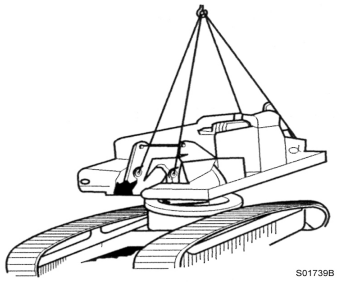

Figure 2
Lifting the upper frame

5. Lift the upper frame just a little, and after confirming safety all around, lift it up and out.

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Document Title: **Upper frame (Superstructure), installation**	Function Group: **710**	Information Type: **Service Information**	Date: **2014/6/25**
Profile:			

Upper frame (Superstructure), installation

1. Bundle the hoses attached to the turning joint together and place them upright.
2. Coat the screws and threaded holes of the slew ring with "Three bond 1215" (Loctite #515).

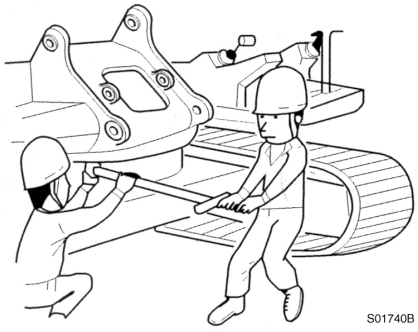

Figure 1
Installing the upper frame

3. Lift the upper frame and install it to the slew ring.
   NOTE!
   Lower the superstructure so that the slew pinion and the slew ring are engaged.

   NOTE!
   For tightening torque, see torque chart.

   NOTE!
   Tighten diagonally opposite screws in sequence.

4. Connect the hoses, turning joint clamping screw and seal cover disconnected for removal.

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Document Title: **Additional counterweight & digging unit**	Function Group: **716**	Information Type: **Service Information**	Date: **2014/6/25**
Profile:			

Additional counterweight & digging unit

When special digging units (such as : scrap handling clam, log loader etc.,) are installed on the excavators, an additional counterweight is required for stability.
In these cases, check the digging unit specification and compare it carefully to the excavator load lifting capacity chart.
And if in doubt, contact your local dealer for advice.

Additional counterweight can be installed according to special digging units, however we are not responsible for any failure of the excavator or breakage of digging units due to such application.
For reference, an excavator is basically designed only for excavating and is not designed to be used as a crane.

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Document Title:	Function Group:	Information Type:	Date:
Undercarriage, description	**7181**	**Service Information**	**2014/6/25**
Profile:			

Undercarriage, description

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

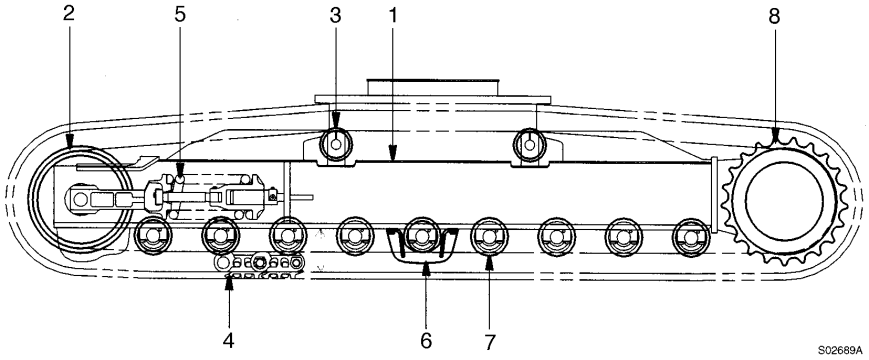

Figure 1
Structure, undercarriage

1	Track frame	5	Spring package
2	Idler	6	Track guard
3	Top roller	7	Bottom roller
4	Track link	8	Sprocket

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