

No.	Item	Criteria			Remarks
1	Deformed frame		Limit		
		Bending	5(Overall length of track frame		Bent
		Distorted	10(Distortion between left and right crawler frames)		
		Widened idler	5 n	nm	
2	Gap between upper and lower sides of		Standards	Limits	
		Track frame	126 mm	131 mm	Build up or replace
	idler guide	Idler frame	124 mm	119 mm	
2	Gap between left and	Track frame	166 mm	171 mm	Build up or roplace
3	right of idler guide	Idler support	162±1.0 mm	157 mm	Build up of Teplace
4	Track spring	Free length	Installed load	Installed length	Bonlaco
4	(Standards)	286.5 mm	2,700 kg	233.5 mm	періасе

Rubber crawler features





The amount of friction of the rubber crawler sets the limit of use. However, it is subject to change depending upon the work condition and environment.



Figure 14

FG008468

Item		DX35Z
Distance between centers of crawlers		4,390±12
Scale cord	Rigid	800 kg
Scale cord	No. of coils	40±4
Range of t	-25°C~55°C	
Width x Pitch		300x52.5 mm





IDLER

Construction



FG008470

Reference Number	Description	
1	Front idler assembly	
2	Idler	
3	Shaft	
4	Bearing (BL-207)	

Reference Number	Description	
5	C-type stopper ring	
6	Oil seal (QLF 35, 72, 12, 19.5)	
7	Guide	
8	Spring pin (Ø10x60L)	

Disassembly and Reassembly

Disassembly procedures

- 1. Refer to "Crawler Disassembly" to remove the crawlers and then idler assembly.
- 2. Remove the spring pin(8) from the guide(7).
- 3. Remove the guide(7) from the shaft(3).
- 4. Remove the oil seal(6) using a screw driver.
 - Once removed, the oil seal should not be reused.
- 5. Remove the C-type stopper ring(5), bearing(4), and shaft(3).

Reassembly procedures

- 1. For reassembly, reverse the disassembly procedures.
 - Clean segregated parts.
 - Coat clean gear oil or engine oil(80cc) before assembling the oil seal(6).
 - Refer "Crawler Installation" for crawler reassembly.

Idler (for steel crawlers)







No.	Item	Unit	Standard	Limits	Remarks
1	Outside diameter	mm	Ø 3 11	Ø 28 7	Build up or replace
2	Contact outside diameter	mm	Ø 269	Ø 26 5	Build up or replace
3	tab width	mm	26.2	22	Build up or replace
4	Overall width	mm	65	60	Build up or replace
5	Contact width	mm	19.4	24	Build up or replace
6	Lubricant volume	CC	80	80	Gear oil

TRACK TENSION ADJUSTING CYLINDER

Construction



Reference Number	Description	
1	Plate	
2	Cylinder	
3	Spring	
4	Rod	
5	O-ring (IB-P40)	
6	Backup Ring (T2-P40)	
7	Dust Seal (DKR-40)	

Reference Number	Description	
8	Spacer	
9	Snap Ring (H-52)	
10	Cartridge Valve	
11	Grease Nipple (PT1/8-A)	
12	Castle nut	
13	Split pin	

Spring Specifications



Figure 19

Designation Dimensions Designation Dimensions No. of active coils 7.5 195.1 Minimum closed length Total No. of coils 9 Outside diameter 107 Spring constant(kg/mm) 50.9 Mean diameter 85 Set load(kg) 2698 Inside diameter 63 4650 Compressive load(kg) Wire diameter 22 Free length(mm):L0 286.5 Set length 233.5

FG008473

Disassembly and Reassembly

Be sure to use a special tool when removing the spring.

Take care as the spring may pop out.



FG008472

Reference Number	Description	
1	Plate	
2	Cylinder	
3	Spring	
4	Rod	
5	O-ring	
6	Backup Ring	
7	Dust Seal	

Reference Number	Description	
8	Spacer	
9	Snap Ring	
10	Cartridge Valve	
11	Grease Nipple	
12	Castle nut	
13	Split pin	
14	Yoke	

Disassembly and Reassembly Procedures

Disassembly Procedure

- 1. Remove the crawlers and idlers.
- 2. Remove the idler yoke(14).
- 3. Use a press to relieve the spring force.
- 4. Remove the split pin(14) and castle nut(12).
- 5. Remove the spring(3) from the tension cylinder tube(2).
- 6. Remove the cartridge valve(10) and grease nipple(11) together from the tension cylinder rod(4).
- 7. Remove the cylinder rod(4) from the tension cylinder tube(2).
- 8. Remove the snap ring(9), and then remove the spacer(8), dust seal(7), backup ring(6), and O-ring(5).

Reassembly Procedure

- 1. Reverse the disassembly sequence for reassembly operation.
 - Install the O-ring(5), backup ring(6), Dust seal(7), and spacer(8) to the cylinder tube(2).

To prevent damage, coat great to the O-ring and dust seal at assembly.

- Assemble the cylinder(4) to the cylinder tube(2). First, inject great into the cylinder tube. Install the cartridge valve(10) into the tension adjusting cylinder rod until two threaded portions contact the threaded hole, and then assemble the cylinder rod. At this time, ensure that grease is drained from the grease drain port, and then tighten the cartridge valve.
 - Cartridge valve tightening torque: 6~9 kg·m
- Use a special tool to install the spring(3) to the cylinder tube(2) and secure the spring in place with a castle nut(12).
- After adjusting the spring set length, bend the split pin(13) completely.
 - Spring set length: 233.5 mm



Release air from the cylinder tube completely before assembly.

Be sure to apply grease to the piston area on the cylinder tube rod before assembly.