

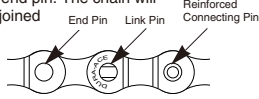


WARNING

- Use neutral detergent to clean the chain. Do not use alkali-based or acid based detergent such as rust cleaners as it may result in damage and/or failure of the chain.
- Use the reinforced connecting pin only for connecting the narrow type of chain.
- There are two different types of reinforced connecting pin available. Be sure to check the table below before selecting which pin to use. If connecting pins other than reinforced connecting pins are used, or if a reinforced connecting pin or tool which is not suitable for the type of chain is used, sufficient connection force may not be obtained, which could cause the chain to break or fall off.

Chain	Reinforced connecting pin	Chain tool
9-speed super narrow chain such as CN-7700 / CN-HG92	 Silver	TL-CN31/TL-CN22
8-/7-/6-speed narrow chain such as CN-HG50 / CN-IG51	 Black	TL-CN31/TL-CN22 and TL-CN30/TL-CN21

- If it is necessary to adjust the length of the chain due to a change in the number of sprocket teeth, make the cut at some other place than the place where the chain has been joined using a reinforced connecting pin or an end pin. The chain will be damaged if it is cut at a place where it has been joined with a reinforced connecting pin or an end pin.



- Obtain, read and carefully service instructions when installing parts. A loose, worn, or damaged parts may cause injury to the rider. We strongly recommend that only genuine Shimano replacement parts be used.

SERVICE INSTRUCTIONS

SI-5C20C-001

FD-7700

Front derailleur

Before use, read these instructions carefully, and follow them for correct use.

In order to realize the best performance, we recommend that the following combination be used.

Series	DURA-ACE
Shifting lever	ST-7700, ST-7700-C / SL-7700 / SL-BS77
Outer casing	SIS-SP40
Front derailleur	FD-7700
Front chainwheel	FC-7700
Bottom bracket	BB-7700
Chain	CN-7700
Bottom bracket cable guide	SM-SP17

Specifications

Front Derailleur

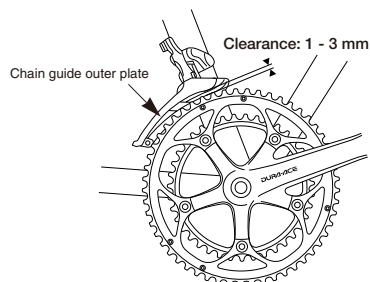
Type	Band type (28.6 / 31.8) / Brazed on type
Front chainwheel tooth difference	15T
Chainstay angle	61° - 66°
Chain line	43.5 mm

Note

- For smooth operation, always be sure to use the specified outer casing and the bottom bracket cable guide.
- Grease the inner cable and the inside of the outer casing before use to ensure that they slide properly.
- For the chain, be sure to use only the Shimano narrow type chain. The wide type chain cannot be used.
- For any questions regarding methods of installation, adjustment, maintenance or operation, please contact a professional bicycle dealer.

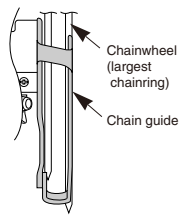
Installation of the front derailleur

- Adjust so that the clearance between the chain guide outer plate and the large gear is 1 - 3 mm before installing.



- The level section of the chain guide outer plate should be directly above and parallel to the largest chainring.
- Secure using a 5mm Allen key.

Tightening torque:
5 - 7 Nm
{44 - 60 in. lbs.}

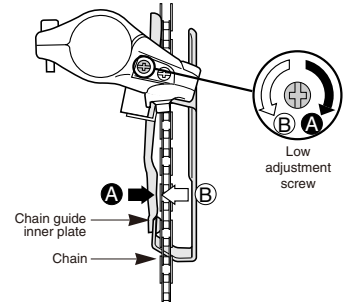
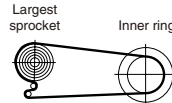


In the case of carbon frames, it may be necessary to lower the tightening torque in order to prevent damage to the frame. Please consult the bicycle or frame manufacturer regarding the appropriate level of tightening torque for carbon frames.

Adjustment and Cable Attachment

1. Low adjustment

Set so that the clearance between the chain guide inner plate and the chain is 0-0.5 mm.

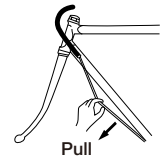


2. Connection and securing of cable

While pulling the inner cable, tighten the wire fixing bolt with a 5 mm allen key to secure the cable.

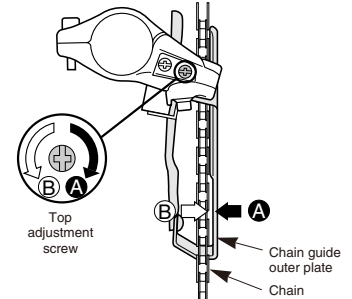
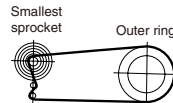
Tightening torque: 5 - 7 Nm
{44 - 60 in. lbs.}

After taking up the initial slack in the cable, re-secure to the front derailleur as shown in the illustration.



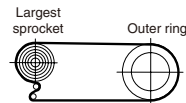
3. Top adjustment

Set so that the clearance between the chain guide outer plate and the chain is 0-0.5 mm.

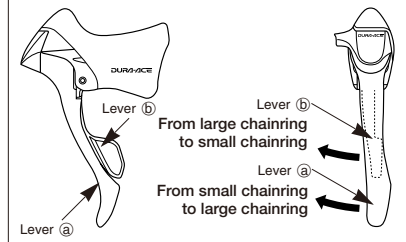


4. Adjustment of the cable tension

- Set the chain to the largest rear sprocket, and shift the front to top gear.



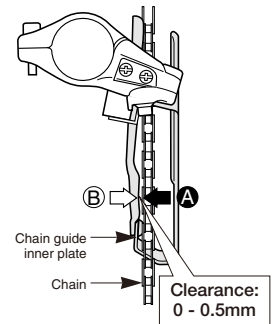
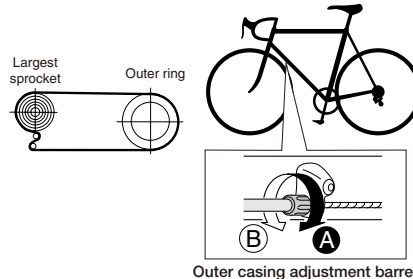
■ Front shifting (ST-7700, ST-7700C)



- Perform the trimming.

■ Trimming (noise-prevention mechanism)
Gently press the lever (b).
(A "click" sound will be heard.)

- After trimming, adjust the clearance (by using the cable-adjustment bolt) of the chain and chain guide to the minimum (0-0.5mm).



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