


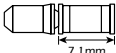
# RD-FT30

Rear Derailleur

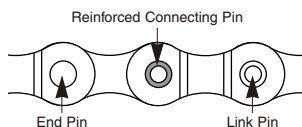
## General Safety Information

### ⚠ 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 pins 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-7701 / CN-HG93	 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.



- Check that the tension of the chain is correct and that the chain is not damaged. If the tension is too weak or the chain is damaged, the chain should be replaced. If this is not done, the chain may break and cause serious injury.

- Obtain and read the service instructions carefully prior to installing the parts. Loose, worn, or damaged parts may cause injury to the rider.

We strongly recommend only using genuine Shimano replacement parts.

- Read these Technical Service Instructions carefully, and keep them in a safe place for later reference.

### Note

- The reinforced connecting pins cannot be used with the UG chain, otherwise the connections will not move properly and noise will occur.
- If gear shifting operations cannot be carried out smoothly, clean the derailleur and lubricate all moving parts.
- If the amount of looseness in the links is so great that adjustment is not possible, you should replace the derailleur.
- You should periodically clean the derailleur and lubricate all moving parts (mechanism and pulleys).
- If gear shifting adjustment cannot be carried out, check the degree of parallelism at the rear end of the bicycle. Also check if the cable is lubricated and if the outer casing is too long or too short.
- If you hear abnormal noise as a result of looseness in a pulley, you should replace the pulley.
- Grease the inner cable and the inside of the outer casing before use to ensure that they slide properly.
- Use a frame with internal cable routing is strongly discouraged as it has tendencies to impair the SIS shifting function due to its high cable resistance.
- Parts are not guaranteed against natural wear or deterioration resulting from normal use.
- For maximum performance we highly recommend Shimano lubricants and maintenance products.
- For any questions regarding methods of installation, adjustment, maintenance or operation, please contact a professional bicycle dealer.

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

Shifting lever		SL-RS31 / 41
Gears		6 / 7
Outer casing		SIS
Rear derailleur		RD-FT30
Multiple Freewheel	6 gears	MF-TZ06 (14-28T)
	7 gears	MF-TZ07 (14-28T) MF-HG50 (11-28T)
Chain		CN-HG50 / CN-UG51

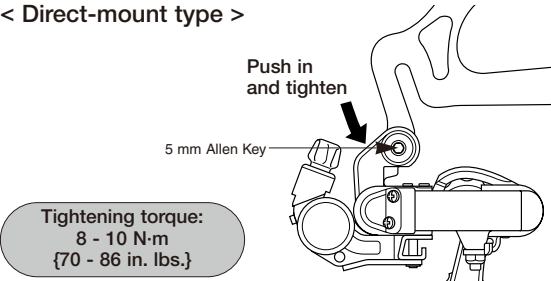
Specifications

Total capacity	17 teeth or less
Largest sprocket	28T
Smallest sprocket	11T

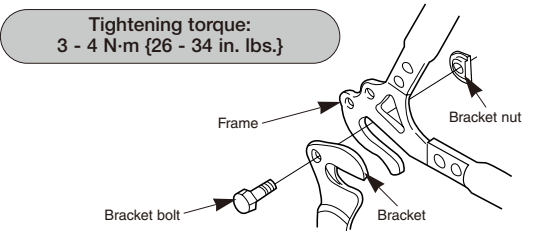
\* For single front chainwheel only

Installation of the rear derailleur

< Direct-mount type >

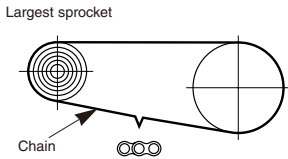


< Bracket type >



Chain length

Add 2 - 4 links (with the chain on the largest sprocket)

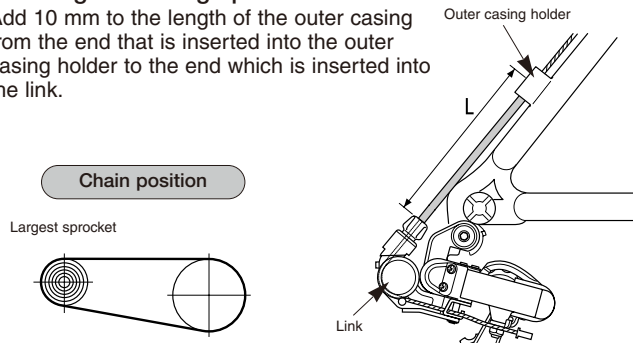


## Cable securing and stroke adjustment

Place the outer casing so that it does not touch the basket and mudguard, otherwise it may cause a problem with the performance of the derailleur.

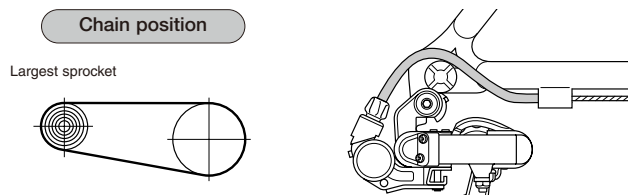
- **If routing the casing upward:**

Add 10 mm to the length of the outer casing from the end that is inserted into the outer casing holder to the end which is inserted into the link.

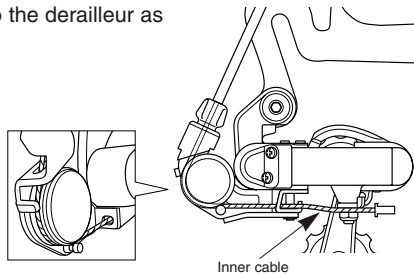


- **If routing the casing downward:**

Set the length of the outer casing so that it describes a smooth arc.

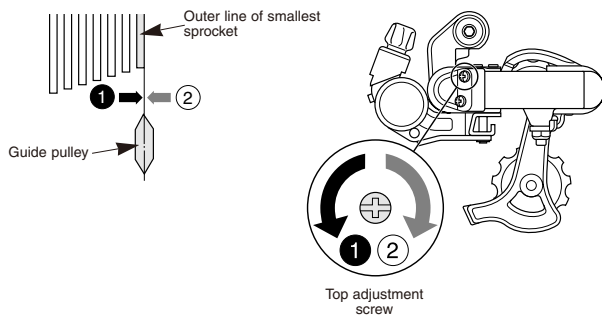


Connect the inner cable to the derailleur as shown in the illustration.



### 1. Top adjustment

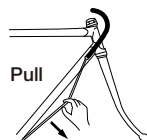
Turn the top adjustment screw to adjust so that the guide pulley is below the outer line of the smallest sprocket when looking from the rear.



### 2. Connection and securing of cable

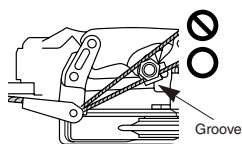
Connect the cable to the rear derailleur and, after taking up the initial slack in the cable, reattach to the rear derailleur as shown in the illustration.

Secure the cable by pulling it with pliers with a force of 5 - 10 kg.



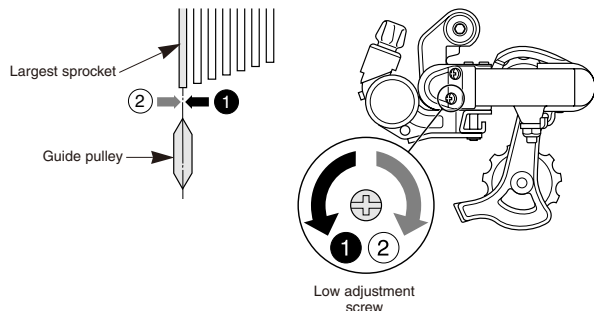
Tightening torque:  
5 - 7 N·m {44 - 60 in. lbs.}

**Note:**  
Be sure that the  
cable is securely  
in the groove.



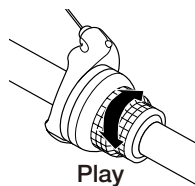
### 3. Low adjustment

Turn the low adjustment screw so that the guide pulley moves to a position directly below the largest sprocket.

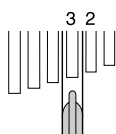


## SIS Adjustment

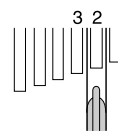
Operate the shifting lever several times to move the chain to the 2nd sprocket. Then, while pressing the lever just enough to take up the play in the lever, turn the crank arm.



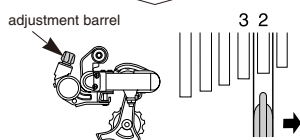
When shifting to  
3rd



When no sound  
at all is heard

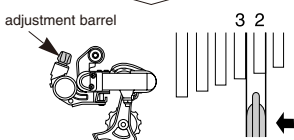


adjustment barrel



Tighten the outer cable  
adjusting barrel until the chain  
returns to the 2nd sprocket.  
(clockwise)

adjustment barrel



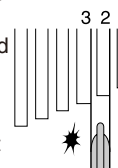
Loosen the outer casing  
adjustment barrel until the  
chain touches the 3rd sprocket  
and makes noise. (counter  
clockwise)

### Best setting

The best setting is when the shifting lever is operated just enough to take up the play and the chain touches the 3rd sprocket and makes noise.

\* Return the lever to its original position (the position where the lever is at the 2nd sprocket setting and it has been released) and then turn the crank arm clockwise. If the chain is touching the 3rd sprocket and making noise, turn the outer casing adjustment barrel clockwise slightly to tighten it until the noise stops and the chain runs smoothly.

Operate lever to change gears, and check that no noise occurs in any of the gear positions.



For the best SIS performance, periodically lubricate all power-transmission parts.

