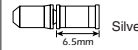
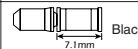


## General Safety Information

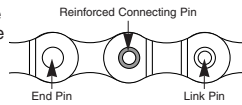
**WARNING**

**"Maintenance interval depends on the usage and riding circumstances. Clean regularly the chain with an appropriate chaincleaner. Never use alkali based or acid based solvents such as rust cleaners. If those solvent be used chain might break and cause serious injury."**

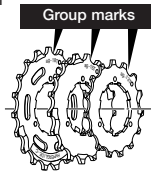
- Use the reinforced connecting pin only for connecting the narrow type of chain.
- There are two different types of reinforced connecting pins available. Be sure to check the table below before selecting which pin to use. If connecting pins other than reinforced connecting pins are used, or if a reinforced 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-CN32 / TL-CN27
8-/7-/6-speed narrow chain such as CN-HG50 / CN-HG40	 Black	TL-CN32 / TL-CN27

- 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 the bicycle to fall over and serious injury may occur as a result. We strongly recommend only using genuine Shimano replacement parts.
- Obtain and read the service instructions carefully prior to installing the parts. If adjustments are not carried out correctly, the chain may come off and this may cause you to fall off the bicycle which could result in serious injury.
- Read these Technical Service Instructions carefully, and keep them in a safe place for later reference.

**Note**

- If gear shifting operations do not feel smooth, wash 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.
- You should periodically wash the sprockets in a neutral detergent and then lubricate them again. In addition, cleaning the chain with neutral detergent and lubricating it can be an effective way of extending the useful life of the sprockets and the chain.
- If the chain keeps coming off the sprockets during use, replace the sprockets and the chain.
- 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.
- Always be sure to use the sprocket set bearing the same group marks. Never use in combination with a sprocket bearing a different group mark.
- Use an outer casing which still has some length to spare even when the handlebars are turned all the way to both sides. Furthermore, check that the shifting lever does not touch the bicycle frame when the handlebars are turned all the way.
- A special grease is used for the gear shifting cable. Do not use DURA-ACE grease or other types of grease, otherwise they may cause deterioration in gear shifting performance.
- Grease the inner cable and the inside of the outer casing before use to ensure that they slide properly.
- For smooth operation, use the specified outer casing and the bottom bracket cable guide.
- Operation of the levers related to gear shifting should be made only when the front chainwheel is turning.
- The tension pulley has an arrow on it to indicate the direction of rotation. Install the tension pulley so that the arrow is pointing clockwise when looking at the outer side of the derailleur.
- 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.



**Be sure to read the service instructions for the Capreo Drive System in conjunction with these service instructions.**

## Technical Service Instructions

SI-5XJ0A-001

**RD-F800**

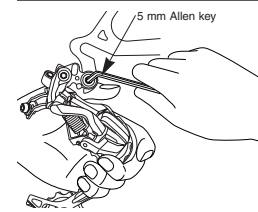
Rear derailleur

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

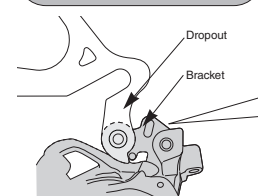
Series	Capreo
RAPIDFIRE (Shifting lever)	SL-F800
Outer casing	OT-SP41 (SIS-SP41)
Rear derailleur	RD-F800
Type	SS / GS
Freehub	FH-F700
Gears	9
Cassette sprocket	CS-HG70-S
Chain	CN-HG73
Bottom bracket guide	SM-SP17 / SM-BT17

**Specifications****Rear Derailleur**

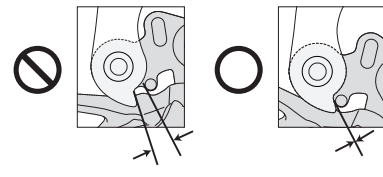
Model number	RD-F800	
Type	SS	GS
Gears	9	
Total capacity	17 T	
Applicable sprocket	9 - 26 T	
Smallest sprocket	9 T	

**Installation of the rear derailleur**

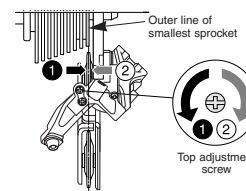
Bracket spindle  
Tightening torque :  
8 - 10 N·m {70 - 86 in. lbs.}



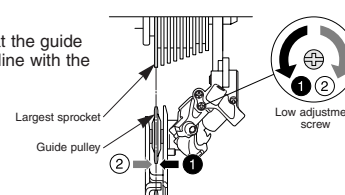
**Note:** Periodically check that there is no gap between the dropout and the bracket as shown in the illustration. If there is a gap between these two parts, problems with gear shifting performance may occur.

**SIS Adjustment****1. Top adjustment**

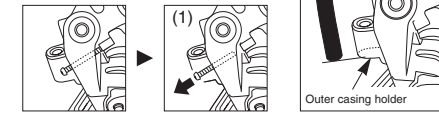
Turn the top adjustment screw to adjust so that the guide pulley is in line with the outer line of the smallest sprocket when looking from the rear.

**2. Low adjustment**

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

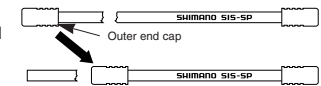
**3. Outer casing length**

- Loosen the B-tension adjustment screw until it is in the position shown in the illustration.
- Check that there is enough slack in the outer casing. Next, align the outer casing with the bottom edge of the outer casing holder at the rear derailleur and then cut off any excess length of outer casing.

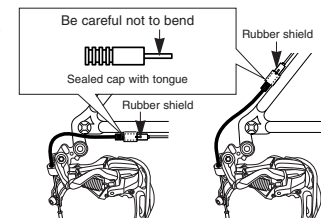
**Cutting the outer casing**

When cutting the outer casing, cut the opposite end to the end with the marking. After cutting the outer casing, make the end round so that the inside of the hole has a uniform diameter.

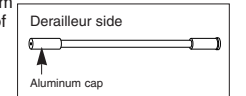
Attach the same outer end cap to the cut end of the outer casing.



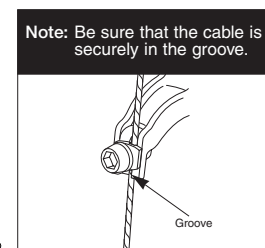
The sealed cap with tongue and the rubber shield should be installed to the outer casing stopper of the frame.



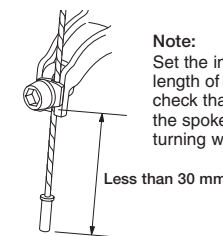
\* If the rear derailleur moves to a large degree, such as in bicycles with rear suspension, it is recommended that you replace the cap with an aluminum cap (sold separately). The end of the outer casing which has the aluminum cap should be at the derailleur side.



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



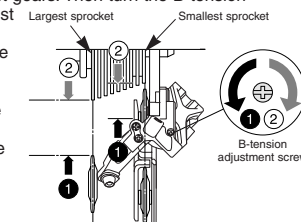
Tightening torque :  
6 - 7 N·m {52 - 60 in. lbs.}

**Note:**

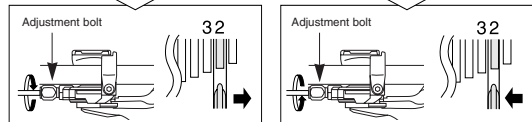
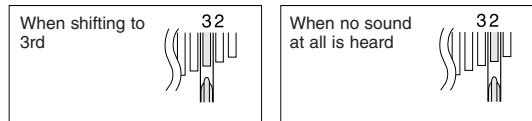
Set the inner cable so that it protrudes by a length of less than about 30 mm, and then check that the inner cable does not interfere with the spokes of the wheel. Stop the wheel from turning while carrying out this step.

**4. How to use the B-tension adjustment screw**

Mount the chain on the chainring and the largest sprocket, and turn the crank arm to shift gears. Then turn the B-tension adjustment screw to adjust so that the guide pulley does not interfere with the sprocket but not so close that it touches the chain. Next, set the chain to the smallest sprocket and repeat the above to make sure that the pulley does not touch the sprocket.

**5. 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.



Tighten the outer casing adjustment barrel until the chain returns to the 2nd sprocket. (clockwise)

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

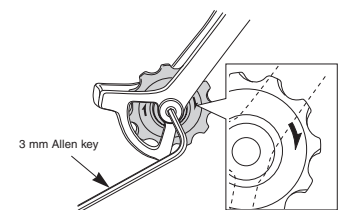
**Best setting**

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.

**Replacing the rear derailleur**

Guide pulley / Tension pulley  
Tightening torque :  
2.5 - 5.0 N·m {22 - 44 in. lbs.}

This service instruction explains how to use and maintain the Shimano bicycle parts which have been used on your new bicycle. For any questions regarding your bicycle or other matters which are not related to Shimano parts, please contact the place of purchase or the bicycle manufacturer.

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\* Service Instructions in further languages are available at :  
<http://techdocs.shimano.com>

Please note: specifications are subject to change for improvement without notice. (English)  
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