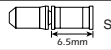
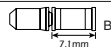
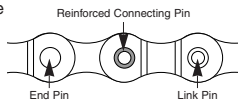


WARNING

"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.
- | 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.
 - Be careful not to let the cuffs of your clothes get caught in the chain while riding, otherwise you may fall off the bicycle.
 - 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.
 - Use a front chainwheel which is compatible with 9-speed chains in conjunction with Shimano CN-HG73 and CN-HG53 chains. If a chainwheel for an 8-speed chain or less is used, front chainwheel gear shifting problems may occur, or the chain pins might fall out, causing the chain to break.
 - It is important to periodically check the tightening torques for the crank arms and pedals. After riding approximately 100 km (60 miles), re-check the tightening torques. If the tightening torques are too weak, the crank arms or pedals may come off and the bicycle may fall over, and serious injury may occur as a result.
 - Check that there are no cracks in the crank arms before riding the bicycle. If there are any cracks, the crank arm may break and you may fall off the bicycle.
 - Check that the wheels are fastened securely before riding the bicycle. If the wheels are loose in any way, they may come off the bicycle and serious injury may result.
 - 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.



CAUTION

- The components of the F800 Capreo drive system are designed for use with collapsible-type bicycles with small wheel diameters that are intended for riding on sealed surfaces.
- If they are used with bicycles that are to be ridden on unsealed surfaces or bicycles with wheels that are larger than 20 inches, the components may become bent or damaged.

Note

- In addition, if pedaling performance does not feel normal, check this once more.
- Before riding the bicycle, check that there is no play or looseness in the connection. Also, be sure to retighten the crank arms and pedals at periodic intervals.
- Do not wash the bottom bracket with high-pressure jets of water.
- If you feel any looseness in the bottom bracket axle, the bottom bracket should be replaced.
- 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.
- If the wheel becomes stiff and difficult to turn, you should lubricate it with grease.
- Do not apply any grease to the inside of the hub, otherwise the grease will come out again.
- 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 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.
- Operation of the levers related to gear shifting should be made only when the front chainwheel is turning.
- 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.

Refer to the RD-F800 (Rear Derailleur) Service Instructions for details on installing the rear derailleur and SIS adjustment.

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

Series	Capreo
Shifting lever	SL-F800
Outer casing	OT-SP41 (SIS-SP41)
Rear derailleur	RD-F800
Type	SS / GS
Front chainwheel	FC-F800
Bottom bracket	BB-UN26
Freehub	FH-F700
Gears	9
Cassette sprocket	CS-HG70-S
Chain	CN-HG73

Specifications

Rear Derailleur

Model number	RD-F800	
Type	SS	GS
Gears	9	9
Total capacity	17 teeth or less	17 teeth or less
Largest sprocket	26T	26T
Smallest sprocket	9T	9T
Applicable front chainwheel (chaining tooth configuration)	FC-F800 (45T)	

Cassette sprocket tooth combination

Type	Gears	Group name	Tooth combination
CS-HG70-S	9	bc	9, 10, 11, 13, 15, 17, 20, 23, 26T

Front Chainwheel

Model number	FC-F800
Chainwheel teeth	45T
Bolt circle diameter	130 mm
Crank arm length	170 mm

Bottom Bracket

Model number	BB-UN26			
Spindle length	MM110	LL113	YL117	117.5
Chain line	46mm	48.5mm	50mm	52.5mm + t
Shell width (Thread dimensions)	68 mm (1.37 X 24 T.P.I.)			

t : Chain case thickness

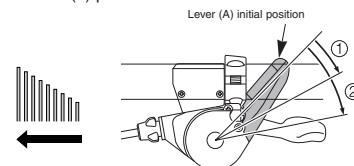
Gear shifting operation

This release lever is equipped with a 2-way release mechanism which allows release operations to be carried out by either pushing or pulling the lever.

Both lever (A) and lever (B) always return to the initial position when they are released after shifting. When operating one of the levers, always be sure to turn the crank arm at the same time.

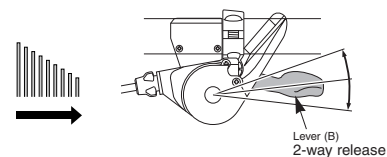
To shift from a small sprocket to a larger sprocket (Lever A)

To shift one step only, press lever (A) to the (1) position. To shift two steps at one time, press to the (2) position.

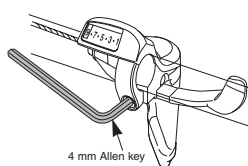


To shift from a large sprocket to a smaller sprocket (Lever B)

Press lever (B) once to shift one step from a larger to a smaller sprocket.



Installation of the lever



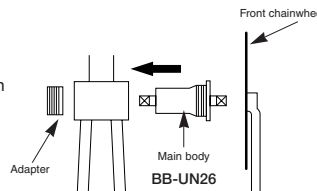
Use a handlebar grip with a maximum outer diameter of 36 mm.

Tightening torque : 5 N·m (44 in. lbs.)

- Install the shifting lever in a position where it will not obstruct brake operation and gear shifting operation.
- Do not use in a combination which causes brake operation to be obstructed.

Installation of the bottom bracket

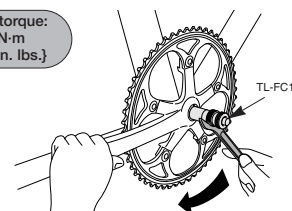
Install using the special tool TL-UN74-S. First install the main body, then the adapter.



Tightening torque: 50 - 70 N·m (435 - 608 in. lbs.)

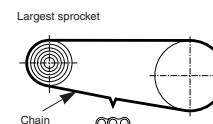
Installation of the front chainwheel

Tightening torque: 35 - 50 N·m (305 - 435 in. lbs.)



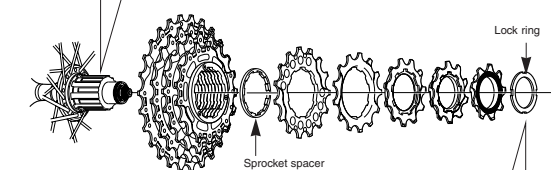
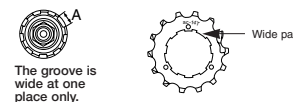
Chain length

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



Installation of the sprockets

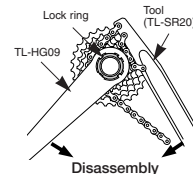
For each sprocket, the surface that has the group mark should face outward and be positioned so that the wider part of each sprocket and the A part (where the groove width is wide) of the freewheel body are aligned.



- For installation of the sprockets, use the special tool (TL-HG09) to tighten the lock ring.

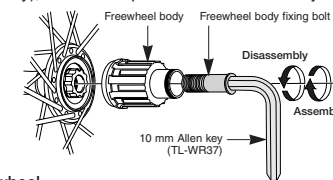
Tightening torque: 30 - 50 N·m (261 - 434 in. lbs.)

- To replace the sprockets, use the special tool (TL-HG09) and TL-SR20 to remove the lock ring.



Replacement of the freewheel body

After removing the hub axle, remove the freewheel body fixing bolt (inside the freewheel body), and then replace the freewheel body.



Tightening torque : 35 - 50 N·m (305 - 434 in. lbs.)

Note:

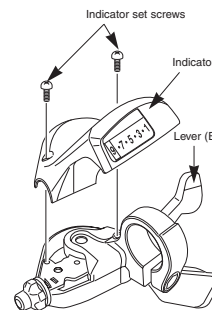
Do not attempt to disassemble the freewheel body, because it may result in a malfunction.

Replacement of the indicator

Disassembly and reassembly should only be carried out when replacing the indicator.

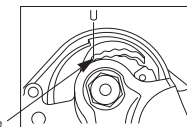
1. Remove the two indicator set screws which are securing the indicator.

Tightening torque : 0.3 - 0.5 N·m (3 - 4 in. lbs.)



2. Remove the indicator unit as shown in the illustration.
3. Operate lever (B) at least eight times to set the lever to the highest position.

4. After checking that the indicator needle is at the left edge, install the indicator from directly above. Push the indicator downward from above until it is aligned with the positioning groove.

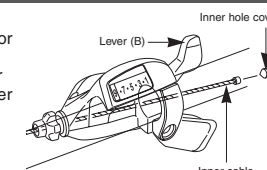


5. Check the operation of the indicator. If it does not operate correctly, re-install the indicator while taking particular note of steps 3. to 4.

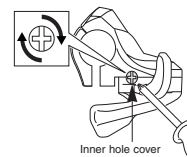
Do not disassemble the indicator and shifting lever unit, as this may damage them or cause mis-operation.

Replacing the inner cable

Operate lever (B) 8 times or more, and check on the indicator that the lever is at the highest position. Then remove the inner hole cover and connect the inner cable.



Install the inner hole cover by turning it as shown in the illustration until it stops. Do not turn it any further than this, otherwise it may damage the screw thread.



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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