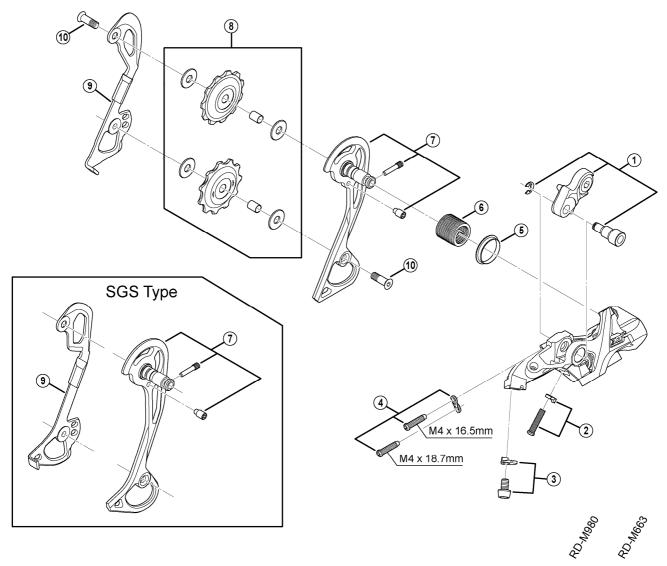
RD-M780-s (GS/SGS)

Silver Version (Long Cage/Super Long Cage)

RD-M780-L (GS/SGS)

Black Version (Long Cage/Super Long Cage)



ITEM NO.	SHIMANO CODE NO.	DESCRIPTION	INTERCHANGEABILITY		
* 1	Y5XP98080	Bracket Axle Unit			
2	Y5XP98030	B-Tension Adjusting Screw (M4 x 18) & Plate			
3	Y5W798030	Cable Fixing Bolt (M5 x 8) & Plate		Α	
4	Y5W798020	Stroke Adjusting Screws & Plate	В	Α	
5	Y5UC14000	P-Seal Ring	Α	Α	
6	Y5W722000	P-Tension Spring		Α	
7	Y5XP98040	Outer Plate Assembly (GS-Type)			
	Y5XP98050	Outer Plate Assembly (SGS-Type)		В	
8	Y5XF98060	Guide & Tension Pulley Unit	В	Α	
9	Y5XC09100	Inner Plate (GS-Type)	В		
	Y5XF10100	Inner Plate (SGS-Type)		Α	
10	Y53M24400	Pulley Bolt (M5 x13.95)	В	Α	

A: Same parts.

B: Parts are usable, but differ in materials, appearance, finish, size, etc. Absence of mark indicates non-interchangeability.

Apr.-2012-3180A © Shimano Inc. A



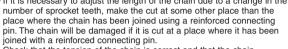
▲ WARNING

"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."

- In order to obtain good gear shifting performance, this chain has a forward side and a reverse side, and the sides are marked so that the chain will face the correct way when installed. The proper design performance will be obtained when the chain is installed so that it faces the correct way. If it is installed so that it faces the opposite way, the chain may come off and the bicycle may fall over and serious injury may occur as a result.
- Use the reinforced connecting pin only for connecting the parrow type of chain

• 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	Chain	Reinforced connecting pin	Chain tool				
connection force may not be obtained, which could cause the chain to break or fall off. Make sure that the	10-speed super narrow chain for MTB	with groove (3) with groove (2)	TL-CN32 TL-CN23 TL-CN27				
Water Sure that the							

connecting pin is aligned with the outer link surface from the side that the pin is inserted. It should feel smooth and flush when you run your finger over it. The pin will protrude slightly on the backside after the break off pin is removed • If it is necessary to adjust the length of the chain due to a change in the



 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

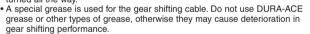


O) Here (U)

- 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

- 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
- 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 a 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.



- 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
- The guide pulley has an arrow on it to indicate the direction of rotation. Install the guide pulley so
- that the arrow is pointing counterclockwise when looking at the outer side of the derailleur. • 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.

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) © Jan. 2011 by Shimano Inc. XBC SZK Printed in Japan.

Technical Service Instructions

RD-M780

SI-5XP0A-001

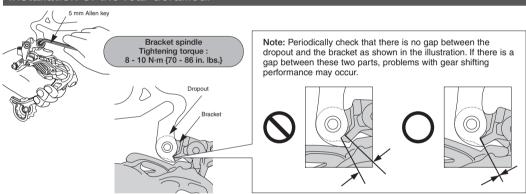
Rear derailleur

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

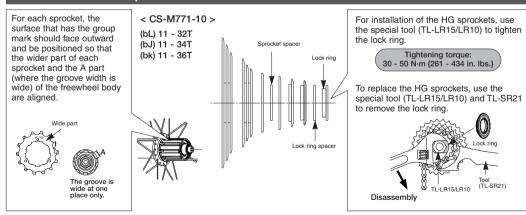
XT		
SL-M780 / SL-M780-I		
OT-SP41		
RD-M780		
SGS / GS		
FH-M785 / FH-M788		
10		
CS-M771-10		
CN-HG94		
SM-SP17 / BT17		

Specifications Rear Derailleur Model number RD-M780 SGS GS Gears 10 10 43T 35T Total capacity Applicable sprocket combination 11 - 32T, 11 - 34T, 11 - 36T 11T Smallest sprocket Front chainwheel tooth difference 18T 18T

Installation of the rear derailleur



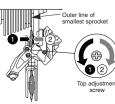
Installation of the sprockets



SIS Adjustment

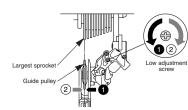
1. Top adjustment

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.



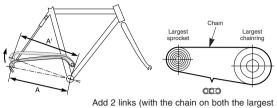
2. Low adjustment

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



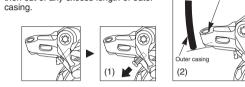
3. Chain length on bicycles with rear suspension

The length of A will vary depending on the movement of the rear suspension. Because of this, an excessive load may be placed on the drive system if the chain length is too short. Set the length of the chain by adding two links to the chain when the rear suspension is at a position where dimension "A" is longest and the chain is on the largest sprocket and the largest chainring. If the amount of movement of the rear suspension is large, the on the smallest chainring and smallest sprocket



sprocket and the largest chainring)

- 4. Outer casing length
 (1) Loosen the B-tension adjustment screw until it is in the position shown in the illustration
- (2) 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 of any excess length of outer



Note:

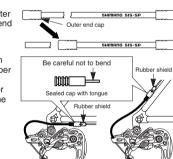
The distance between the outer stopper to the outer casing holder of the rear derailleur may change when the rear suspension moves, so determine the length of the outer casing at the point where this length is at its greates

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 oute casing stopper of the frame.



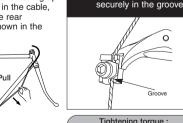
Derailleur side

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

The end of the outer casing which has the aluminum can should be at the derailleur side.

aluminum can

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: Be sure that the cable is

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.

Less than 30 mm

5. How to use the B-tension adjustment screw

Mount the chain on the smallest chainring and the largest sprocket, and turn the crank arm to shift gears. Then turn the Btension adjustment screw to adjust so that the guide pulley does not interfere with the sprocket but not so

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<Checking the distance between the largest sprocket and the guide pulley>

Set the rear derailleur to the lowest gear position, stop the wheel from turning, and then check that the distance from the edge of the guide pulley to the edge of the largest sprocket is within the range of 5 - 6 mm. Turn the crank arm to shift gears and check that there is no roughness in the feel. If the number of teeth for the cassette sprocket is changed, carry out this setting again.

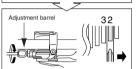
6. SIS Adjustment

3rd

sprocket

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)



32

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 any of the gear positions

For the best SIS performance, periodically lubricate all

■ Replacing the rear derailleur

