Rear Drive System

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.

	DEORE XT DEORE LX			
	ST-M739 ST-M008 ST-M56		ST-M567	
Shifting lever side	SIS-SP40 sealed outer casing			
Rear derailleur side	SIS-SP40 sealed outer casing/Rubber shield			
illeur	RD-M737-S	GS R	D-M565-SGS	
	FH-M737		FH-M565	
	8		8	
sprocket	CS-M737-		CS-HG70-I	
	CN-IG90 / CN-IG70			
acket guide	SM-SP17 / SM-BT17			
	Rear derailleur side illeur sprocket	Shifting lever side Rear derailleur side RD-M737-St FH-M737 8 Sprocket CS-M737-CN-	ST-M739 ST-M008 Shifting lever side Rear derailleur side RD-M737-SGS RH-M737 RD-M737-SGS FH-M737 RS-P700Ket CS-M737-I CN-IG90 / CN-	

Specifications

Rear Derailleur			
Туре	SGS		
Total capacity	38T or less		
Largest sprocket	32T		
Smallest sprocket	11T		
Front chainwheel			

Rear Derailleur		Cassette Sprocket Tooth Combination		
Туре	SGS	Group name	Sprockets	Tooth combination
Total capacity	30T or less	R		11, 12, 14, 16, 18, 21, 24, 28T
Largest sprocket	32T	ah	8	
Smallest sprocket	11T	an		
Front chainwheel	20T			

Sprocket
8

idfire		Freehub		
lodel number	Sprockets	Model number	Sprockets	No. of spoke
ST-M739		FH-M737	0	36 / 32
ST-M567	8	FH-M565	0	

!\ CAUTION

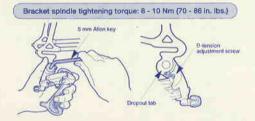
Be sure to use only the Shimano IG chain with IG sprockets. The HG or UG type of chain cannot be used.

Note

- Always be sure to use the IG sprocket set bearing the same group marks. bearing a different group mark.
- Because the high cable resistance of a frame with internal cable routing would impair the SIS function, this type of frame should not be used.
- * Grease the inner cable and the inside of the outer casing before use to ensure that they slide
- · For any questions regarding methods of installation, adjustment, maintenance or operation, please contact a professional bicycle dealer.

Installation of the rear derailleur

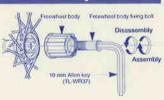
When installing, be careful that deformation is not caused by the B-tension adjustment screw coming into contact with the dropout tab



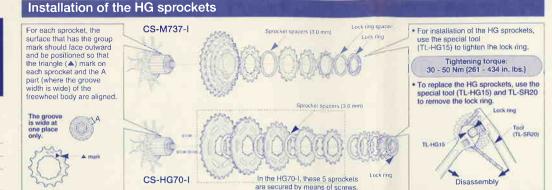
Replacement of the freewheel body

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

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



Tightening torque: 35 - 50 Nm (305 - 434 in, lbs.)



Chain length

Adjustment

1. Top adjustment

Turn the top adjustment

screw to adjust so that the

close the wire end hooking cover

Inserting the inner cable

marking in order to maintain

Cutting the outer casing

end cap to the cut end of

When cutting the outer casing, cut the

After cutting the outer casing, make the

opposite end to the end with the marking.

cable operating efficiency.

Altach the same outer

the outer casing.

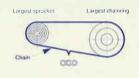
guide pulley is in line with

smallest sprocket when

the outer line of the

looking from the rear.

Add 2 links (with the chain on both the largest sprocket and the largest



Checking the chain connection For IG, chains, insert the chain gauge (TL-CN24) into the inner link which is next to the chain connecting pin to check that the inner link width is correct. Check that the connecting pin pro-trudes past the outer link by the same amount on both sides, and that the amount of protrusion is 0.2 mm or more

\mathcal{O} Correct Incorrect

Note regarding the

and rubber shield

The sealed cap with

to the outer casing

stopper of the frame

longue and the rubber

shield should be installe

shown in the illustration.

3. Low adjustment

the largest sprocket

pulley as close to the

so close that it touches.

smallest sprocket and

touch the sprocket.

Next, set the chain to the

repeat the above to make

sure that the pulley does not

a position directly in line with

screw to adjust the guide Largest spre

sprocket as possible but not

sealed cap with tongue

Chain length on bicycles with rear suspension

Guide puller

Operate lever (B) seven times or more. After checking on the

indicator that the lever is at the highest position, turn the cable adjusting barrel until the slit is on the same side as the

nandlebar. Open the wire end hooking cover as shown in the

illustration, and then pull the wire end hook toward you (if lever

(A) is moved as shown in the illustration to take up the play, the wire end hook will be easier to pull out), and then insert the inner

cable from the bottom. Place the inner cable into the slit and then

mechanism, which will stop the lever from moving back to

the proper position. If the lever does not return, use the

end of the inner cable to unhook the wire end hook.

nsert the inner cable into the outer casing from the end with the

end round so that the inside of the hole has a uniform diameter,

Outer end cap | suimang sis-sp

SHIMONO SIS SP

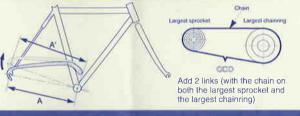
Note: The wire end hook may get hooked inside the lever

2. Connection and securing of the inner cable

Adjusting bolt

marking on it. Apply grease from the end with the

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 slack in the chain may not be taken up properly when the chain is on the smallest chainring and smallest sprocket.



Be careful not to bene

Connect the cable to the rear derailleur and, after taking up the

Turn the low adjustment screw so that the guide pulley moves to

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

the crank arm backward. Then turn the B-tension adjustment

chain on the smallest chainring and the largest sprocket, and turn

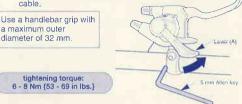
initial slack in the cable, re-secure to the front derailleur as

Installation of the brake lever

< ST-M739 / ST-M567 >

Move lever (A) so that the installation bolt can be seen, and then use a 5 mm Allen key to install.

Note: If the brake lever is installed to the handlebar before the inner cable is installed, the handlebars will obstruct the wire end inner cable. Install the brake lever after installing the inner



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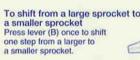
Install the brake lever in a position where it will not obstruct brake operation. Do not use in a combination which causes brake operation to be obstructed.

Gear shifting operation

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

To shift one step only, press lever (A) to the (1) position. To shift two steps at one time, press to the (2) position. With the ST-M739 and ST-M567, a maximum three-step shift can be made in this manner.





- 5. SIS Adjustment (1) Operate the shifting lever to move the chain from the top gear to the 2nd gear.
- If the chain will not move to the 2nd gear, turn the outer casing adjustment barrel to increase the tension----- (1 (counter clockwise)
- If the chain moves past the 2nd gear, decrease the tension---(2) (clockwise)



tension ① while turning the crank arm forward. Stop turning the outer casing adjustment barrel just before the chain makes noise against the 3rd gear. This completes the adjustment



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





their respective holes, and then secure the shifting lever mounting screws.

Replacement of the

Removal of the indicator

replacing the indicator.

lever. If the lever

does not return, use

the end of the inner

cable to unhook the wire end hook.

4. Push the cam plate onto the hexagonal

position shown in the illustration

Note:Do not deliberately turn this

it with the two indicator set screws.

as when installing the inner cable.

remove the shifting lever unit and

wire end hooking cover as shown

Tightening torque : 0.5 - 0.8 Nm (4 - 7 in, lbs.)

4. To assemble, align the shifting lever unit

and the brake lever bracket, install the

careful that the pins at both ends go into

wire end hooking cover while being

in the illustration

mechanism

replacing the shifting lever unit.

end of the shaft so that the plate is in the

this will damage the internal

hexagonal shaft with any tools, as

5. After checking that the indicator needle is at the left edge, set the

6. Check the operation of the indicator. If it does not operate correctly.

re-install the indicator while taking particular note of steps 3, to 5,

Disassembly and reassembly should only be carried out when

1. Loosen the cable fixing bolt (nut) of the rear derailleur, and then

pull the inner cable out of the shifting lever unit in the same way

Replacement of the shifting lever unit

2. Carry out steps 1 - 2 for replacement of the indicator

3. Remove the three shifting lever mounting screws, and then

indicator so that it is directly above the cam plate, and then secure

indicator

shifting lever unit and indicator

Tightening torque: 0.3 - 0.5 Nm (3 - 4 in. lbs.)

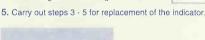
Disassembly and reassembly should only be carried out when

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

2. Remove the indicator unit and cam plate as shown in the

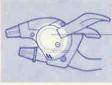
3. Operate lever (B) at least two times to set the lever to the highest

position. At this time, check that the lever returns to the proper position without the wire end hook becoming hooked inside the





Shifting lever mounting screws



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

Com plate

SHIMANO



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

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