### 

• 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 pin 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-7700 / CN-HG92	6.5mm	Silver	TL-CN31/TL-CN22	
	8-/7-/6-speed narrow chain such as CN-HG50 / CN-IG51	7.1mm	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.					
<ul> <li>Obtain, read and carefully service instruction the rider.</li> <li>We strongly recommend that only genuine</li> </ul>	01		naged pa	irts may cause injury to	

# SERVICE INSTRUCTIONS

SI-R650D

# **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.

Series	DEORE XT DEORE LX	
Rapidfire M9	ST-M750 / SL-M750	ST-M570 / SL-M570
Outer casing	SP40 sealed	SP40 sealed
Rear derailleur	RD-M750	RD-M570
Туре	SGS / GS	SGS
Freehub	FH-M750	FH-M570
Gears	9	9
Cassette sprocket	CS-M750	CS-HG70-9
Chain	CN-HG92	CN-HG72
Bottom bracket guide	SM-SP17	SM-SP17

#### Specifications

Rear	Derailleur

Model number	RD	-M750	RD-M570	
Туре	SGS	GS	SGS	
Gears		9	9	
Total capacity	43T	33T	43T	
Largest sprocket	34T	34T	34T	
Smallest sprocket	11T	11T	11T	
Front chainwheel tooth difference	22T	22T	22T	

#### Cassette sprocket tooth combination

Model number	Group name	Gears	Tooth combination
CS-M750	as	9	11, 13, 15, 17, 20, 23, 26, 30, 34T
CS-M750	aQ	9	11, 12, 14, 16, 18, 21, 24, 28, 32T
CS-M750	ар	9	12, 14, 16, 18, 20, 23, 26, 30, 34T
CS-HG70-9	ar	9	11, 12, 14, 16, 18, 21, 24, 28, 32T

### Shifting lever

Shifting lever			Freehub			
Model number	ST-M750 / SL-M750	ST-M570 / SL-M570	Model number	FH-M750	FH-M570	
Gears	9	9	Gears	9	9	
		·	No. of spoke holes	36 / 32	36 / 32	

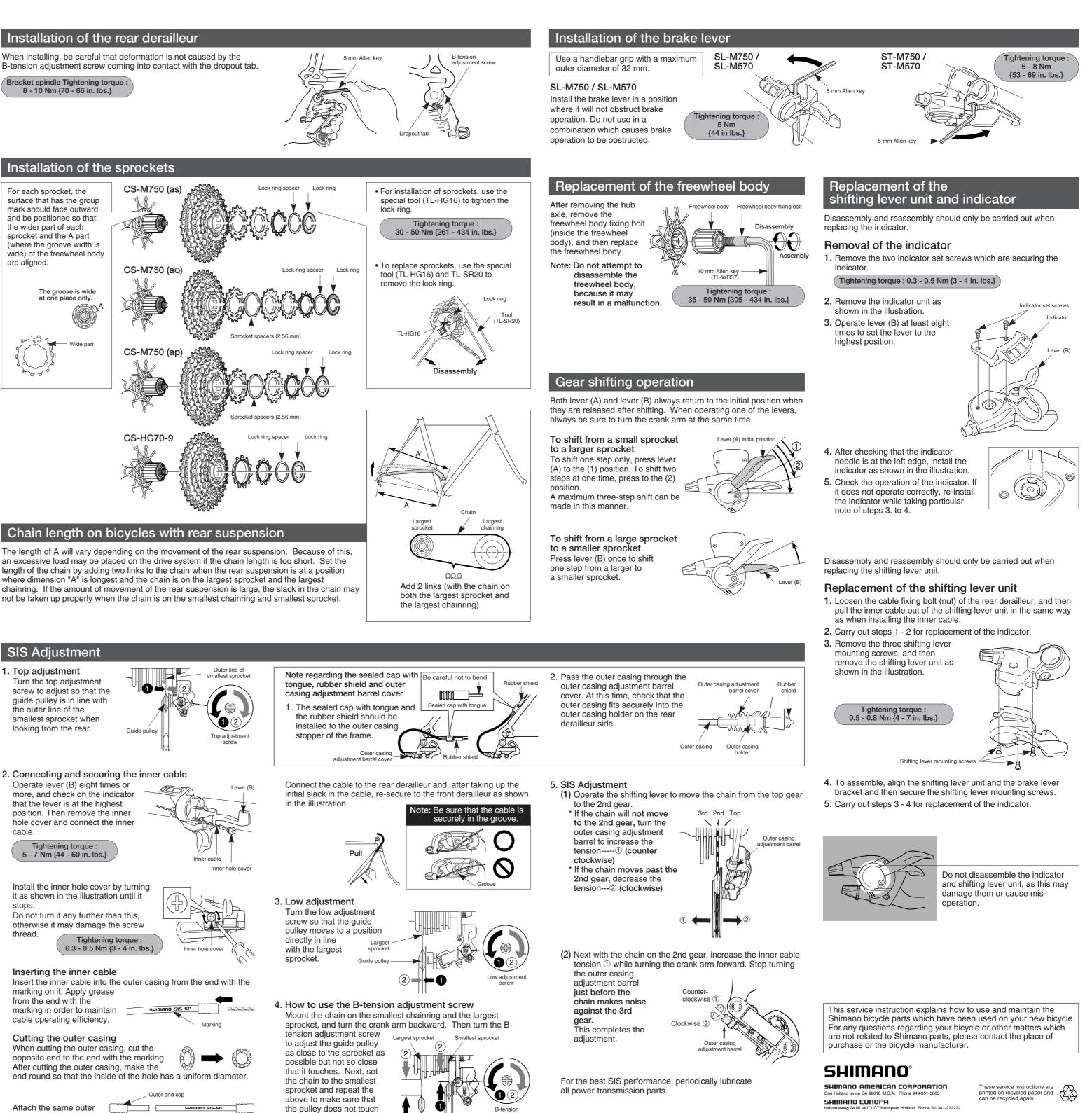
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• Use a front chainwheel which is compatible with 9-speed chains in conjunction with Shimano CN-7700, CN-HG92 and CN-HG72 chains. If a chainwheel for an 8-speed chain or less is used, front chainwheel gear shifting problems may occur, or the chain pins might fall out, causing the chain to break.

#### Note

- 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.
- Always be sure to use the HG/IG 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.
- If the brake fluid used in the oil disc brakes is of a type which tends to adhere to the plastic parts of the
- shifting lever, this may cause the plastic parts to crack or become discolored. Therefore, you should make sure that the brake fluid does not adhere to these plastic parts.
- The mineral oil which is used in SHIMANO disc brakes does not cause cracking or discoloration if it adheres to plastic parts, but such parts should be cleaned with alcohol beforehand to prevent foreign particles from adhering.
- 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.

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

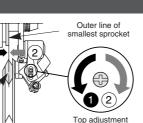


#### Chain length on bicycles with rear suspension

#### 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.

cable



- 2. Connecting and securing the inner cable Operate lever (B) eight times or more, and check on the indicator that the lever is at the highest position. Then remove the inner



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



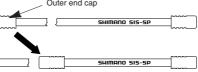
Insert the inner cable into the outer casing from the end with the

from the end with the marking in order to maintain cable operating efficiency.





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



Please note: specifications are subject to change for improvement without notice. (English) © Jun. 2000 by Shimano Inc. XBC SZK Printed in Japan

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the sprocket.

