

• 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

break or fall off.			
blear of fail off.	Chain	Reinforced connecting pin	Chain tool
	9-speed super narrow chain such as CN-7700 / CN-HG92	Silver	TL-CN31/TL-CN22
	8-/7-/6-speed narrow chain such as CN-HG50 / CN-IG51	Black	TL-CN31/TL-CN22 and TL-CN30/TL-CN21
• If it is necessary to adjust the length of the place than the place where the chain has b damaged if it is cut at a place where it has	een joined using a reinforced	l connecting pin or an e	end pin. The chain will be
Obtain, read and carefully service instruction	ons when installing parts. A I	OOSE, End Pin	Reinforced Link Pin Connecting Pin

worn, or damaged parts may cause injury to the rider. We strongly recommend that only genuine Shimano replacement parts be used.

SERVICE INSTRUCTIONS

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	XTR		
Rapidfire M9	ST-M952 / SL-M952		
Outer casing	SP40 sealed outer casing / Rubber shield		
Rear derailleur	RD-M952 / RD-M953		
Туре	SGS / GS		
Freehub	FH-M950		
Gears	9		
Cassette sprocket	CS-M952 / CS-M953		
Chain	CN-7700		
Bottom bracket guide	SM-SP17 / SM-BT17		

Specifications

Model number				RD-M952 / RD-M	953
Туре	be la		SGS		GS
Gears				9	
Total capacity			43T (42T M953)		33T
Largest sprocket			34T		34T
Smallest sprocket			11T		11T
Front chainwheel tooth difference		22T		22T	
Cassette sprocket	tooth combir	ation		, i	
Model number	Group name	Gears	Tooth combination		
CS-M952 / CS-M953	ар	9		12, 14, 16, 18,	20, 23, 26, 30, 34T

Chifting lever

offitting level					
Model number	ST-M952 / SL-M952				
Gears	9				
Freehub					
Model number	FH-M950				
Gears	9				
No. of spoke holes	36 / 32				

• 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

- Adjust the RD-M953 Rapid Rise rear derailleur (reverse spring type) from the low side.
- 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 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
- turning. • 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

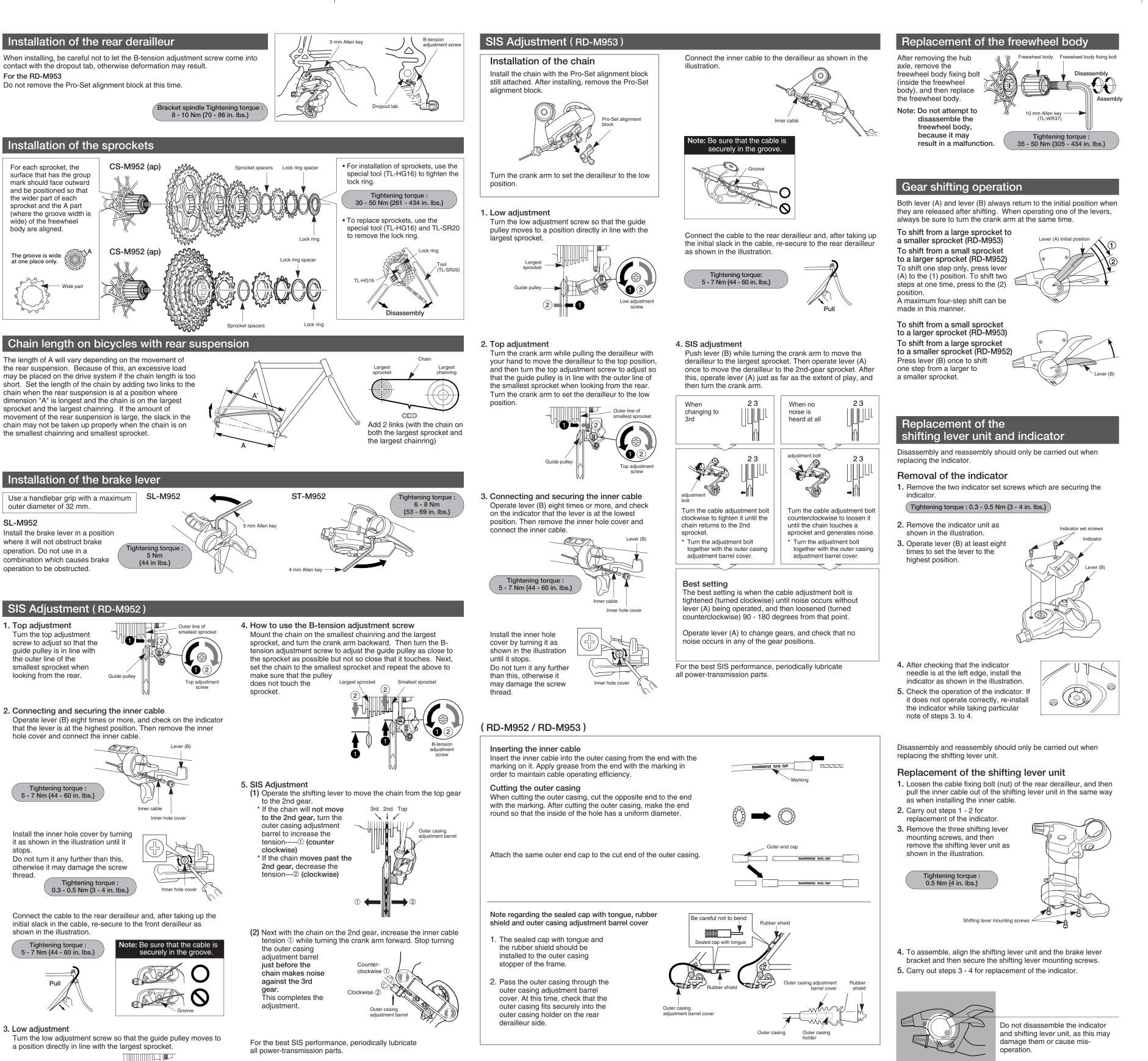
This service instruction explains how to use and maintain the Shimano bicycle parts which have been used on your new bicycle. For any questions regarding your bicycle or other matters which are not related to Shimano parts, please contact the place of purchase or the bicycle manufacturer.

SHIMANO

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SHIMANO EUROPA SHIMANO INC. Industrieweg 24 NL-8071 CT Nunspeet Holland Phone 31-341-272222 77 Oimatsu-cho 3-cho Sakai Osaka 590-8577 Japan Phone 0722-23-3243 Please note: specifications are subject to change for improvement without notice. (English) © Jun. 2000 by Shimano Inc. XBC SZK Printed in Japan

contact with the dropout tab, otherwise deformation may result. For the RD-M953



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.

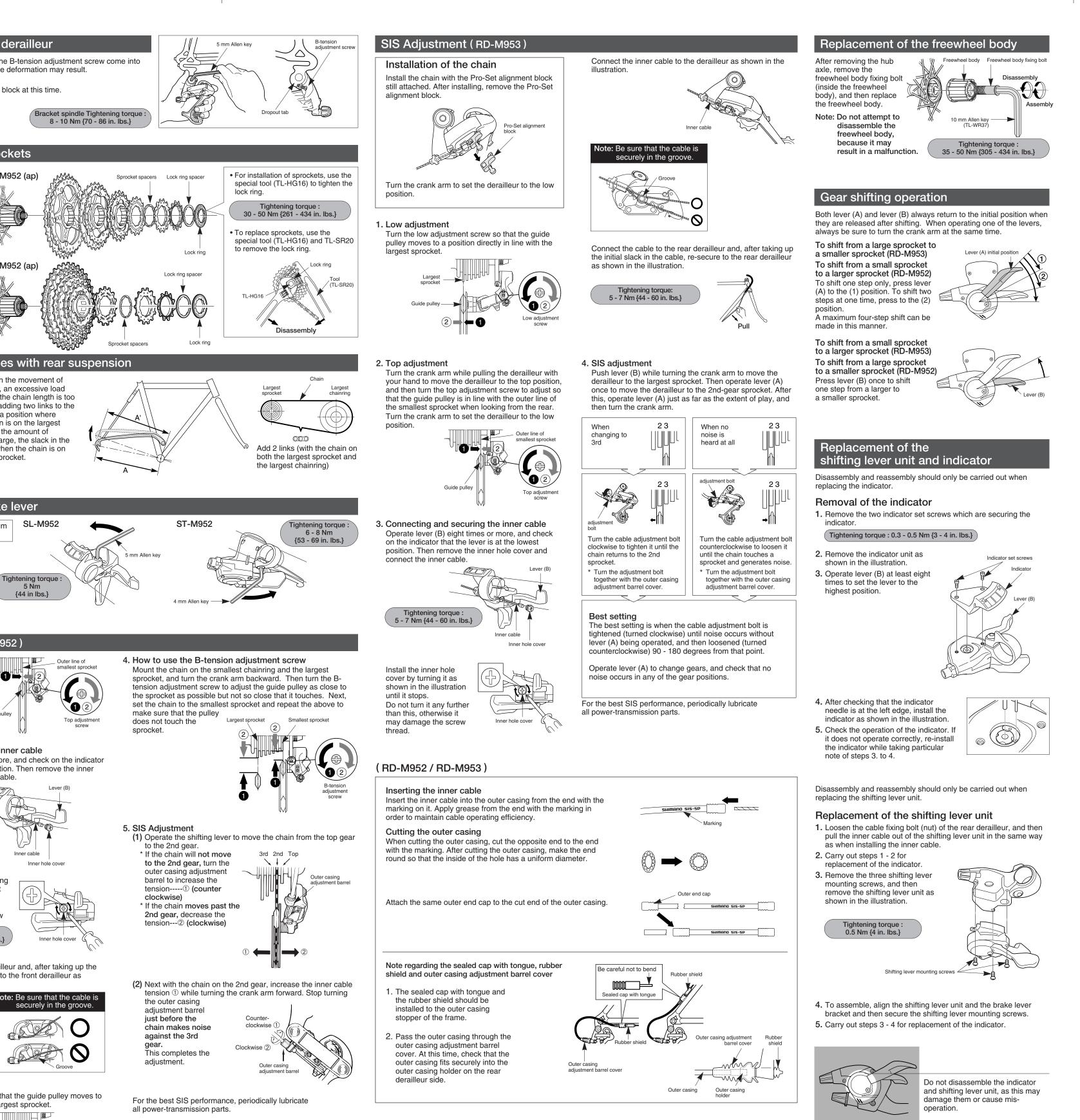
Installation of the brake lever	

outer diameter of 32 mm. SL-M952

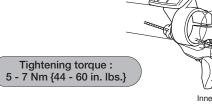
Install the brake lever in a position where it will not obstruct brake operation. Do not use in a combination which causes brake operation to be obstructed.

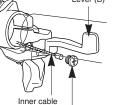
SI-R660E

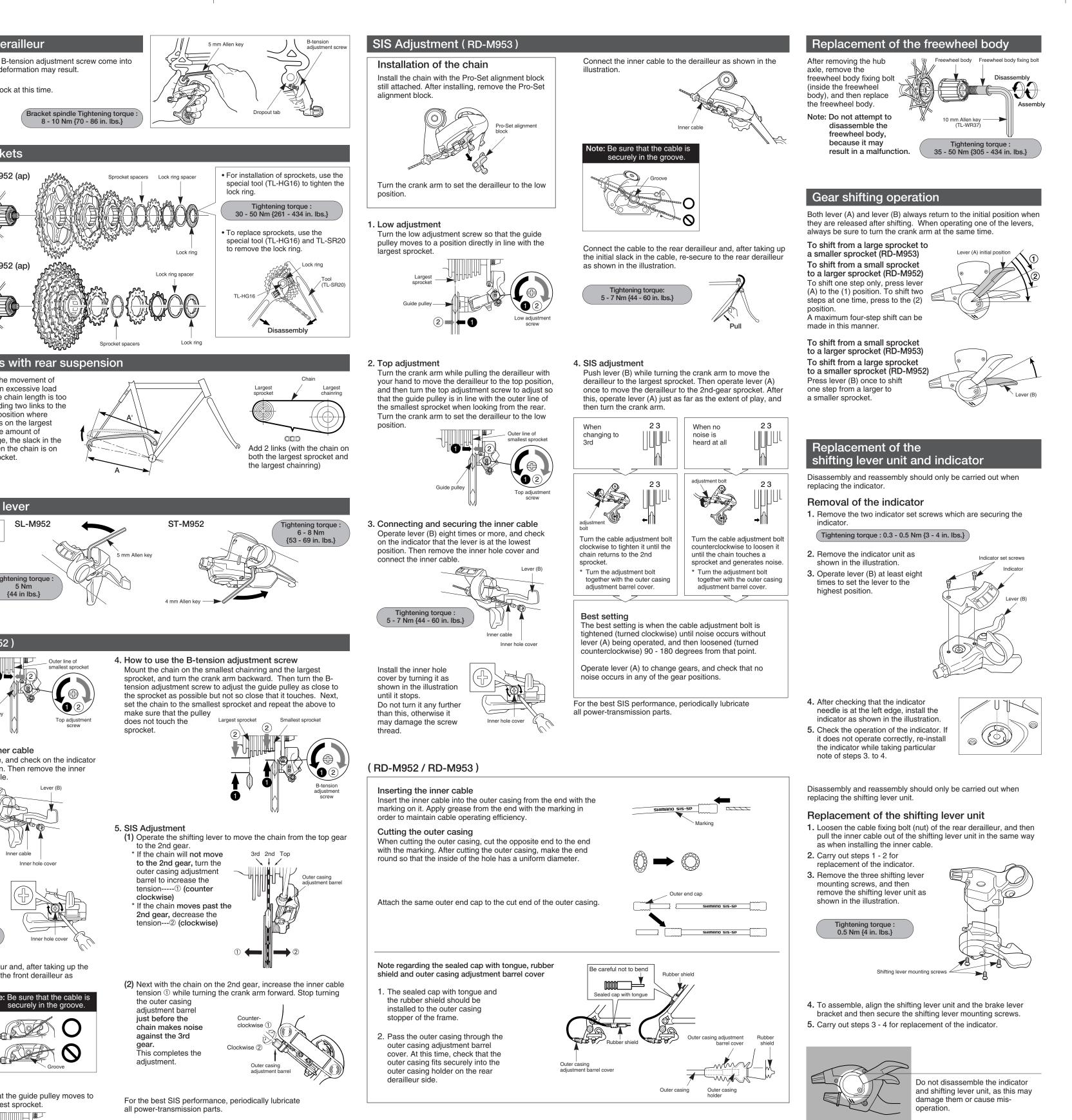
1. Top adjustment

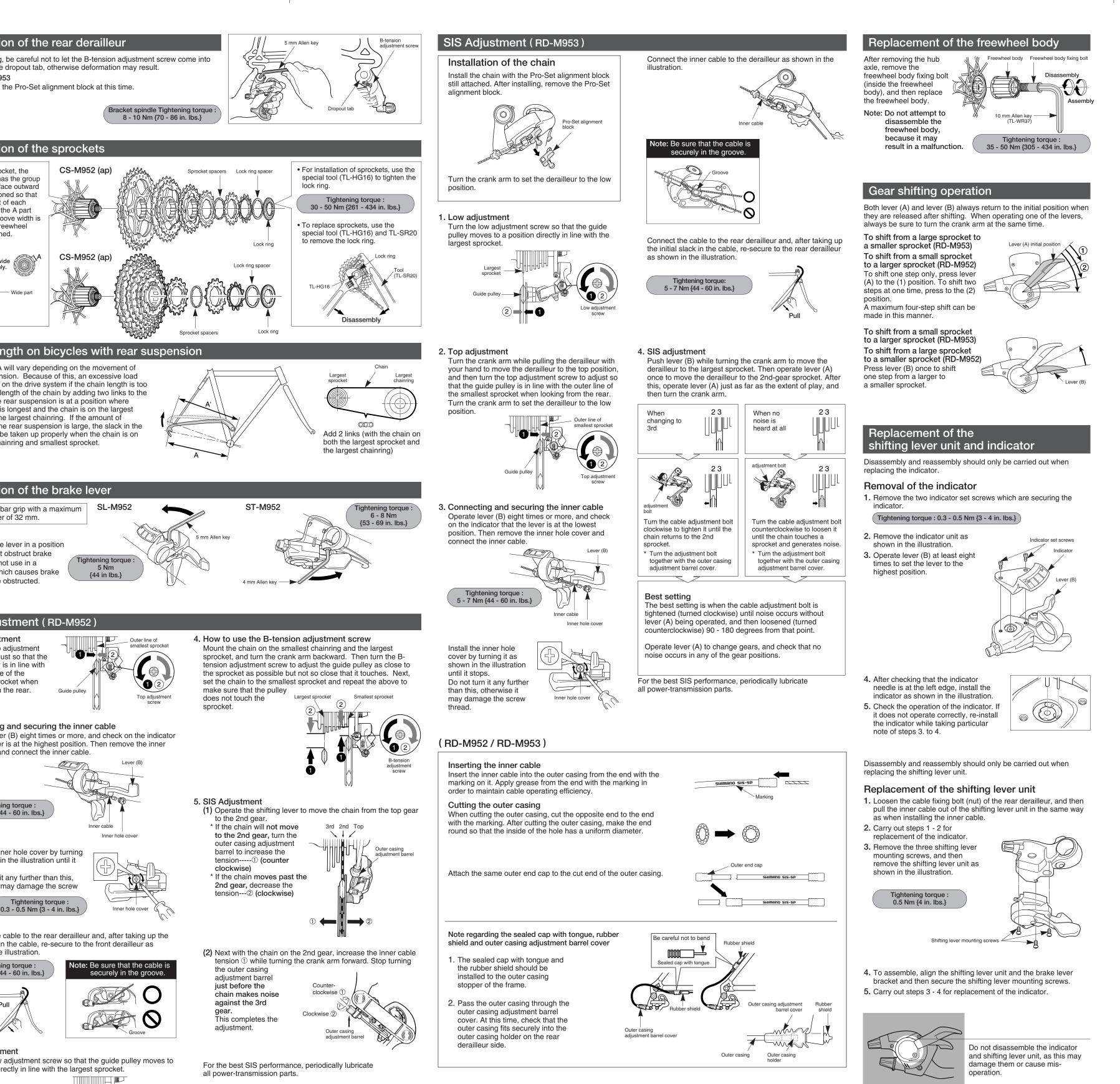


2. Connecting and securing the inner cable

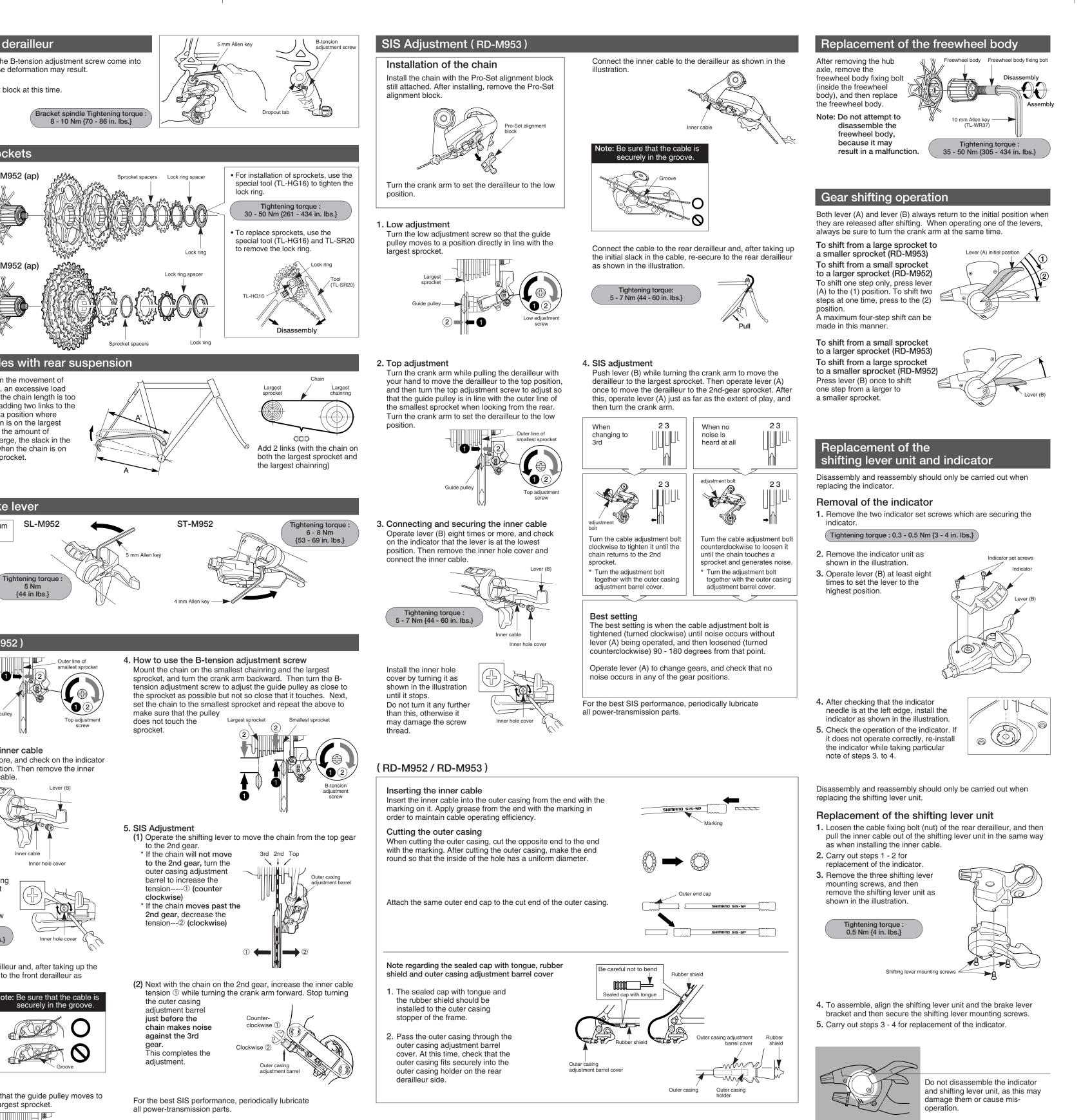


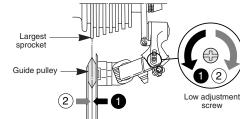


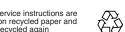














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