SI-6SF0A-002-00 General Safety Information

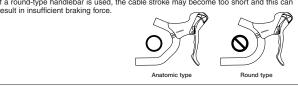
A WARNING

• 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 Read these Technical Service Instructions carefully, and keep them in a safe place for later reference.

Note

- Operation of the levers related to gear shifting should be made only when the front chainwheel is turning.
- For smooth operation, use the specified outer casing and the bottom bracket cable guide. · Grease the inner cable and the inside of the outer casing before use to ensure that they
- 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.
- 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.

Note when using the reach adjustment block (Pad spacer) When installing the 8-degree reach adjustment block, use an anatomic-type handlebar If a round-type handlebar is used, the cable stroke may become too short and this can



Technical Service Instructions

SI-6SF0A-002

(FD-2300)

short

gear shift stroke

If operation of lever (a) does not

complete the chainring shift stroke, operate lever (a) again for the

distance (X') to complete that part

Full gear shift st

 \bullet Lever b : Shifts from larger to smaller front chainring.

When lever (b) is operated, there is one click where

trimming (the noise prevention mechanism) engages, and

a second stronger click when the gear shift stroke is completed. After trimming, the next push will complete the

Click (Trim operation)

A

Click

Gear shift

Lever (b) start position

of the lever stroke (X) which was

ST-2300 / ST-2303





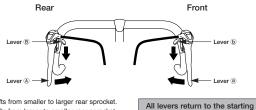
Shimano Total Integration Features

The Shimano Total Integration 2300 series features a dual action control lever which actuates the brakes like a conventional brake lever, and shifts the gears when moved inward toward the center line of the bicycle. Gear shifting is now possible without ever taking your hands off the brake hoods or drops

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

ST-2300	ST-2303	
010.0		
515-3	SIS-SP40	
16	24	
FD-2300	FD-2303	
FC-2300	FC-2303	
BB-UN26 (MM110)	BB-UN26 (LL113)	
RD-2	RD-2300	
FH-2	FH-2200	
CS-H	CS-HG50-8	
CN-H	CN-HG50	
SM-S	SM-SP17	
	16 FD-2300 FC-2300 BB-UN26 (MM110) RD-2 FH-2 CS-H0 CN-H	

Operation



position when released

Lever (A) : Shifts from smaller to larger rear sprocket. $\begin{array}{l} \mbox{Lever (B) : Shifts from larger to smaller rear sprocket.} \\ \mbox{Lever (a) : Shifts from smaller to larger chainring.} \end{array}$ Lever (b) : Shifts from larger to smaller chainring

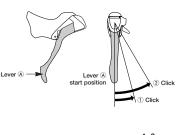
SHIMANO

SHIMANO AMERICAN CORPORATION a 92618, U.S.A. Phone: +1-949-951-500

SHIMANO EUROPE B.V. SHIMANO INC. 3-77 Oimatsu-cho, Sakai-ku, Sakai-shi, Osaka 590-8577, Japar eet, The Netherlands Phone: +31-341-272222

Operation of rear derailleur lever

\bullet Lever A : Shifts from smaller to larger rear sprocket. Lever (A) has a click stop at positions (1) and (2).

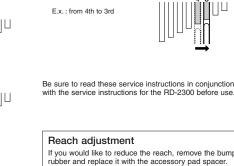






Operation of front derailleur levers

Lever (a) : Shifts from smaller to larger front chainring

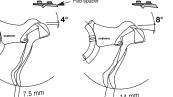


sprocket

If you would like to reduce the reach, remove the bump rubber and replace it with the accessory pad spacer. (Two types are available: 4° and 8°.) <u>aa</u>

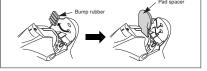
• Lever (B) : Shifts from larger to smaller rear sprocket.

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



Replacement method

1. Remove the bump rubber 2. Apply a thin layer of grease to the two projections of the pad spacer. Press-fit the pad spacer so that the projections go as far in as possib



Trimming (noise prevention operation)

< ST-2300 > If the chain is on the large front chainwheel and the larger rear sprocket, the chain will rub in the front derailleur

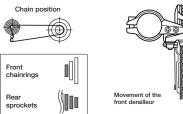
Actual stroke





< ST-2303 / ST-2300 >

If the chain is on the smallest front chainring and a smaller rear sprocket, the chain will rub in the front derailleu plate, producing a characteristic noise. When this happens, press lever (a) lightly (to the point where it clicks); this causes the front derailleur to move slight towards the larger chainring, thereby eliminating the noise



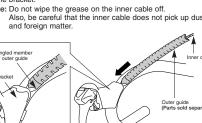
Be sure to read these service instructions in conjunction with the service instructions for the FD-2300 / 2303 before use

installation nut on the outside of the bracket. Pull the bracket cover back and use a 5 mm No Allen key to tighten the bolt. Tightening torque: 6 - 8 N·m {50 - 70 in. lbs.} Installation of the brake cable Cable used φ1.6 mm Inner cable φ5 mm SLR outer casing Be sure to leave some excess cable, even if cutting it to the full length of the handlebars 1. Tilt the lever in (as when shifting) to make it easier to pass the cable through the cable hook. Note: The front lever cannot be tilted to the inside until lever (b) is pushed once or twice. Lever (t 14 mm 2. Pass the inner cable through. Rear lever 3. Fix the outer guide to the inner cable, and set the angled member in the bracket. Note: Do not wipe the grease on the inner cable off. Also, be careful that the inner cable does not pick up dust and foreign matter.

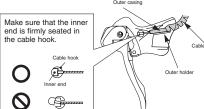
Installation

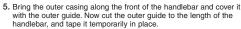
Secure the assembly with the

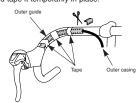
Installation to the handlebar











Installing the shifting cable

Cable used • Inner cable (stainless steel)

SP40 sealed outer casing (1)

SP40 outer casing (2)



Inserting the inner cable Insert the inner cable into the outer casing from the end with the marking on it. Apply grease from the end with the marking in order to maintain cable operating efficiency.



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



Operate lever (B) 8 or more times to set the lever to the highest position, check on the indicator that the highest position is correct, and then install and adjust the inner cable.

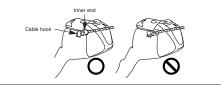
Depress the brake lever, and then pass the inner cable through the cable hole.



If the cable hook does not align with the shifting cable hole, press lever (B) again until it does, and then install the cable.



Make sure that the inner end is firmly seated in the cable hook.



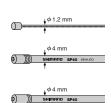
Front lever

Operate lever b 2 or more times, check on the indicator that the low position is correct, and then secure the inner cable.

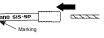


Depress the brake lever, and then pass the inner cable through the . cable hole.

6. Finally, wrap the handlebar with the finish tape.

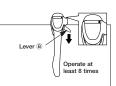




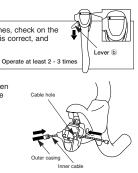








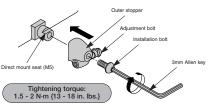




If the cable hook does not align with the shifting cable hole, press lever b again until it does, and then install the cable. Make sure that the inner end is firmly seated in the cable hook. $\mathbf{\hat{N}}$ О

Outer stopper

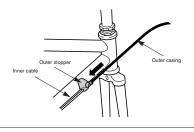
1. Install the outer stopper to the down tube.

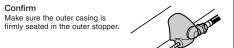


Install with the adjustment bolt tightened The adjustment range for the adjustment bolt is six full turns.

2. Pass the inner cable through, and set the outer casing.

Be sure leave some excess in the outer casing, even if cutting it to the full length of the handlebars





Replacing the bracket cover

The tabs on the bracket cover each fit to a matching slot on the

