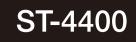
SI-6CT0B



Shimano Total Integration





Shimano Total Integration Features

The Shimano Total Integration TIAGRA 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.

General Safety Information

WARNING

- Obtain and read the service instructions carefully prior to installing the parts. Loose, worn, or damaged parts may cause injury to the rider.
 We strongly recommend only using genuine Shimano replacement parts.
- Read these Technical Service Instructions carefully, and keep them in a safe place for later reference.

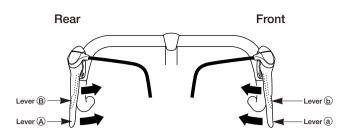
Note

- 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
- slide properly.
 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.
- The cycle computer is compatible with the SM-6501. Be sure to read these Service Instructions together with the Service Instructions for the SM-6501.
- 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.

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

TIAGRA	
ST-4400	
SIS-SP40	
18	27
FD-4400	FD-4403
FC-4400	FC-4403
BB-UN52	
RD-4400-SS	RD-4400-GS
FH-4400	
CS-HG50-9	
CN-HG73	
SM-SP17	
	S SI 18 FD-4400 FC-4400 BI RD-4400-SS FI CS CI

Operation

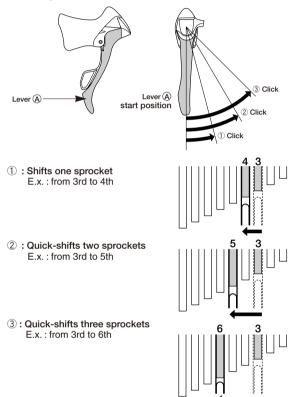


Lever (A): Shifts from smaller to larger rear sprocket. Lever (B): Shifts from larger to smaller rear sprocket. Lever (a): Shifts from smaller to larger chainring. Lever (b): Shifts from larger to smaller chainring.

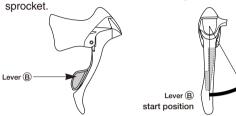
All levers return to the starting position when released.

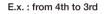
Operation of rear derailleur lever

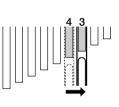
• Lever (A): Shifts from smaller to lager rear sprocket. Lever (A) has a click stop at positions (1), (2),and (3).



 \bullet Lever (B) : Shifts from larger to smaller rear sprocket. Press lever (B) once to shift from a larger to one smaller







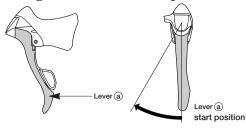
Caution on operation

Lever (B) will also move when lever (A) is operated, but be careful not to apply pressure to lever (B). Similarly be careful not to press lever (A) when operating lever (B). Gears will not shift when both levers are pressed simultaneously.

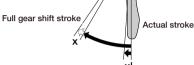
Be sure to read these service instructions in conjunction with the service instructions for the RD-4400-SS / RD-4400-GS before use.

Operation of front derailleur levers (FD-4400)

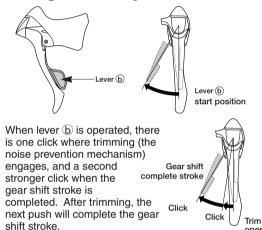
• Lever (a) : Shifts from smaller to larger front chainring.

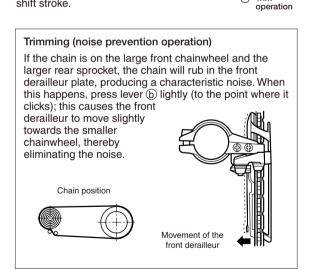


If operation of lever (a) dose not complete the chainring shift stroke, operate lever (a) again for the distance (X') to complete that part of the lever stroke (X) which was short.



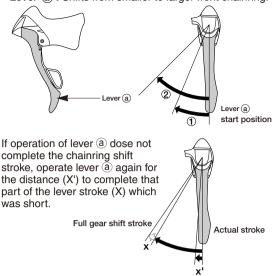
• Lever (b) : Shifts from larger to smaller front chainring.



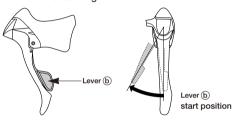


Operation of front derailleur levers (FD-4403)

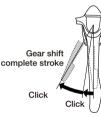
• Lever (a) : Shifts from smaller to larger front chainring.



• Lever (b) : Shifts from largest chainring to intermediate chainring.



• Lever (b) : Shifts from intermediate chainring to smallest chainring.

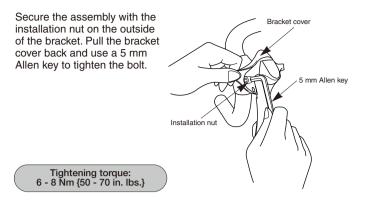


Caution on operation (FD-4400/FD-4403)

Lever (b) will also move when lever (a) is operated, but be careful not to apply pressure to lever (b). Similarly be careful not to press lever (a) when operating lever (b). Gears will not shift when both levers are pressed simultaneously.

Be sure to read these service instructions in conjunction with the service instructions for the FD-4400 / FD-4403 before use.

Installation to the handlebar



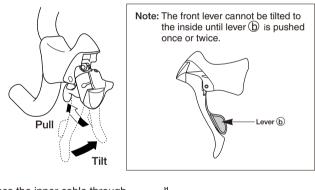
Installation of the brake cable



φ1.6 mm Inner cable (stainless steel) ϕ_{5} mm • SLR outer casing SHIMANO SER 9

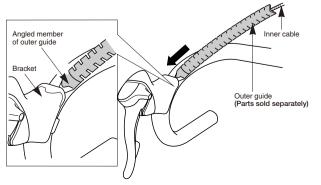
Be sure to leave some excess cable, even if cutting it to the full length of the handlebars.

1. Tilt the lever in (as when shifting) to make it easier to pass the cable through the cable hook.

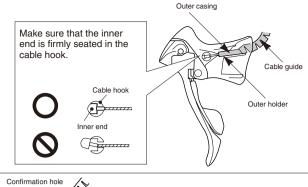


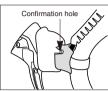


- 3. Fix the outer guide to the inner cable, and set the angled member in the bracket.
 - Note: Do not wipe the grease on the inner cable off. Also, be careful that the inner cable does not pick up dust and foreign matter.



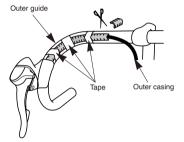
4. Set the outer casing on the inner cable, and in the bracket along the outer guide.





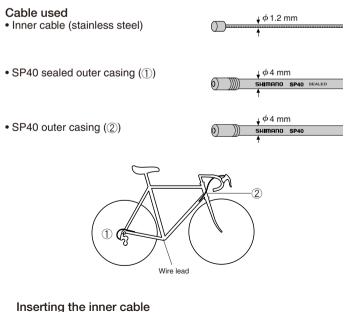
Make sure that the outer casing is firmly seated in the outer holder. Pull the bracket cover back to reveal the hole in the side of the bracket through which the seating can be confirmed.

5. Bring the outer casing along the front of the handlebar and cover it with the outer guide. Now cut the outer guide to the length of the handlebar, and tape it temporarily in place.



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

Installing the shifting 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.



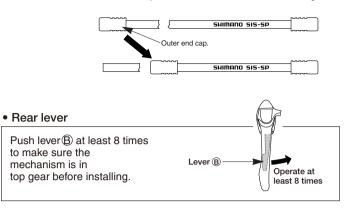
Cutting the outer casing

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.



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

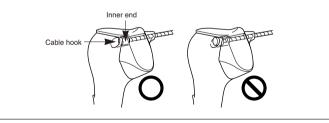


Cable hole

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

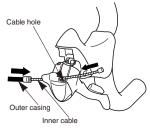


Make sure that the inner end is firmly seated in the cable hook.

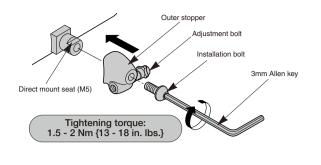




Depress the brake lever, and then pass the inner cable through the cable hole.

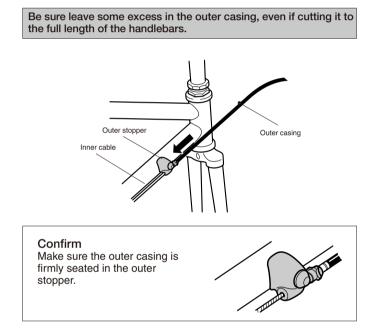


- Outer stopper
- 1. Install the outer stopper to the down tube.



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.



Replacing the bracket cover

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

