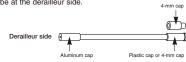
General Safety Information

▲ 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.

- 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 end of the outer casing which has the aluminum cap should be at the derailleur side.



- 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

Technical Service Instructions SI-6CX0D-001

ST-7700-C

Shimano Total Integration

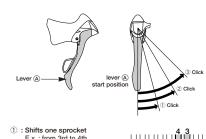


In order to realize the best performance, we recommend that the following combination be used.

Series	DURA-ACE
Shifting lever	ST-7700-C
Outer casing	SP40
Gears	18
Front derailleur	FD-7700
Front chainwheel	FC-7700
Bottom bracket	BB-7700
Rear derailleur	RD-7700
Freehub	FH-7700
Cassette sprocket	CS-7700
Chain	CN-7701
Bottom bracket cable guide	SM-SP17

Operation of rear derailleur lever

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

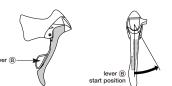


2 : Quick-shifts two sprockets E.x.: from 3rd to 5th

③ : Quick-shifts three sprockets E.x.: from 3rd to 6th



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



E.x.: from 4th to 3rd

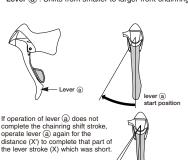


Lever B will also move when lever A is operated, but be careful not to apply pressure to lever B. Similarly be careful not to press lever (A) when operating lever B. Gears will not shift when both levers are pressed

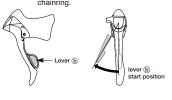
Be sure to read these service instructions in conjunction with the service instructions for the RD-7700 before use.

Operation of front derailleur levers 2. Pass the inner cable through

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



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



When lever (\underline{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 gear shift stroke.

Trimming (noise prevention operation) If the chain is on the large front chainwheel and the

larger rear sprocket, the chain will rub in the front derailleur plate, producing a characteristic noise. When this happens, press lever (b) lightly (to the point where it clicks); this causes the front derailleur to move slightly towards the smaller chainwheel, thereby eliminating the noise.

Chain position Movement of the front derailleur

Caution on operation (FD-7700)

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-7700 before use.



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

Installation

Installation to the handlebar

Secure the assembly with the installation nut on the outside of the bracket. Pull the bracket cover back and use a 5 mm Allen key to tighten the bolt Tightening torque: 6 - 8 N·m {50 - 70 in. lbs.}

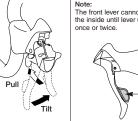
In the case of carbon handlebars, it may be necessary to lower the tightening torque in order to prevent damage to the handlebar. Please consult the bicycle or handlebar manufacturer regarding the appropriate level of tightening torque for carbon handlebars.

3-77 Oimatsu-cho, Sakai-ku, Sakai-shi, Osaka 590-8577, Japan

Installation of the brake cable

· Inner cable (stainless steel) SLR outer casing -

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



marking in order to maintain cable operating



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

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



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

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

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

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

B

O

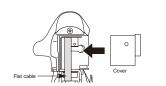
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Also, be careful that the inner cable does not pick up dust and foreign matter.

 Rear lever Push lever ® at least 8 times to make sure the mechanism is in top gear before installing. Lever (B) Depress the brake lever, remove

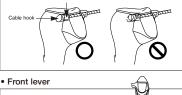
the cover and then pass the inner cable through the cable

Make sure that the flat cable is straight as shown in the illustration, and then install the cover, (Be careful not to clamp the flat cable when installing the cover.)



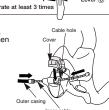
If the cable hook does not align with the shifting cable hole, press lever (B) again until it does, and then instal the cable



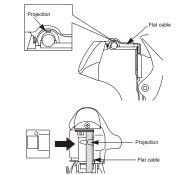


Push lever (b) at least 3 times before installing

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

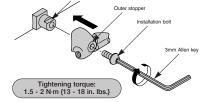


Make sure that the flat cable is straight and sitting on top of the projection, and then install the cover (Be careful no to clamp the flat cable when installing the cover.)



Outer stopper

1. Install the outer stopper to the down tube.





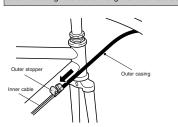
Confirm

Make sure the outer

Install the outer stopper for

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

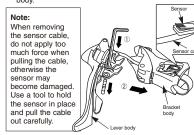


casing is firmly seated in the outer stopper

Maintenance **Bracket and lever disassembly**

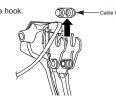
1. Remove the sensor cap. and the use a 2 mm Aller key to remove the lever stud set screw on the bottom of the bracket

2. Insert a 2.5 mm Allen key or similar tool into the lever stud hole, and tap it gently with a plastic mallet to push out the lever stud. When the lever stud comes out, the bracket body and lever body can be disassembled.
After this, pull the sensor cable out from the bracket body.

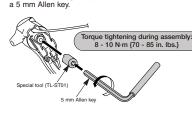


Lever and bearing assembly disassembly

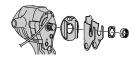
1. Remove the cable hook.



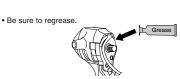
2. Disassemble using the special tool and



3. Disassemble as shown.

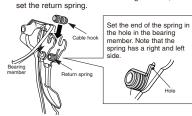


Do not disassemble any further as reassembly may not be possible

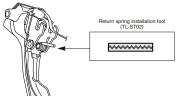


Assembling the bracket and lever

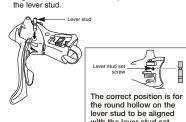
set the return spring.



2. Set the special installation tool for the return spring.



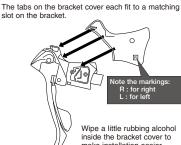




spring installation tool

6. Tighten the lever stud set screw until it is even with the surface of the bracket Lastly, install the senso Tightening torque: 1 N·m {8 in. lbs.}

Replacing the bracket cover



SHIMANO

Operation

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Industrieweg 24. 8071 CT Nunspeet. The Netherlands Phone: +31-341-272222

Cable used



The front lever cannot be tilted to the inside until lever (b) is pushed

Installing the shifting cable Cable used

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

• Inner cable (stainless steel)

• SP40 sealed outer casing (1)

φ 4 mm

SHIMANO SP40 SEALED • SP40 outer casing (2)

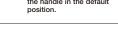
Inserting the inner cable

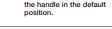
Insert the inner cable into the outer casing from the end with the marking on it. Apply grease from the end with the

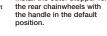
Cutting the outer casing

SHIMANO SIS-SP

SHIMANO SIS-SP

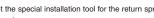


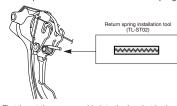




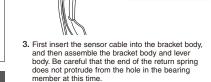


1. Put the cable hook in to the bearing member, and



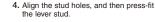


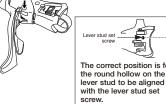












5. Remove the return

