General Safety Information

▲ WARNING

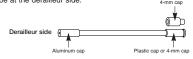
- Obtain and read the service instructions carefully prior to installing the parts. Loose, worn, or damaged parts may cause injury to the rider.

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



- A special grease is used for the gear shifting cable (SIS SP41). Do not use DURA-ACE grease or other types of grease, otherwise they may cause deterioration in gear shifting performance.
- 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-6KD0A

ST-5600 ST-R700

Shimano Total Integration



Shimano Total Integration Features

The Shimano Total Integration 105 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.

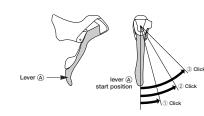
In order to realize the best performance, we recommend that the following combination be used.

Series	105	
Shifting lever	ST-5600 / ST-R700	ST-5600 / ST-R700
Outer casing	SP41	
Gears	20	30
Front derailleur	FD-5600	FD-5603
Front chainwheel	FC-5600 / FC-R700	FC-5603
Rear derailleur	RD-5600SS	RD-5600GS
Freehub	FH-5600	
Cassette sprocket	CS-5600	
Chain	CN-5600	
Bottom bracket cable guide	SM-SP17	

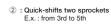
Front

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).







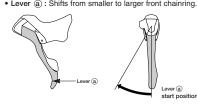


③ : Quick-shifts three sprockets E.x.: from 3rd to 6th



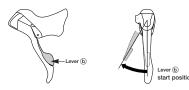
Operation of front derailleur levers (FD-5600/5603)

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





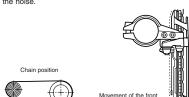
- < FD-5600 >
- Lever (b): Shifts from larger to smaller front chainring.



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. complete the gear shift stroke.



Trimming (noise prevention operation) f the chain is on the large or intermediate chainring and the largest rear sprocket, the chain will rub on the front derailleur inner plate, producing a characteristic noise. When this happens, press lever (a) slightly (to the point where it clicks); this causes the front derailleur to move slightly toward the smaller chainring, thereby eliminating the noise.



If the front derailleur outer plate and the chain come into contact and generate noise when the chain is on the smallest or intermediate chainring and on one of the smaller sprockets, press lever ⓐ slightly to move the front derailleur slightly toward the largest chainring in order to eliminate the noise.

chainring.

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

E.x.: from 4th to 3rd

pressed simultaneously

< FD-5603 >

Press lever ® once to shift from a larger to one smaller

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

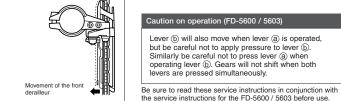
Be sure to read these service instructions in conjunction with

If you would like to increase the reach, replace the existing pad spacer with the accessory pad spacer (4°).

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

lever B. Gears will not shift when both levers are

ST-R700 Reach adjustment



Installation to the handlebar

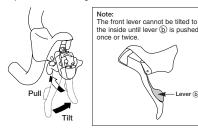
Secure the assembly with the installation nut on the outside of the bracket. Pull the bracket cover key to tighten the bolt. Tightening torque: 6 - 8 N·m {50 - 70 in. lbs.}

Installation of the brake cable

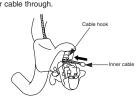
Cable used

• 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.



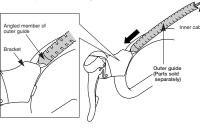
2. Pass the inner cable through.



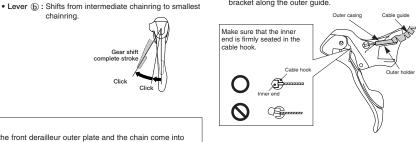
3. Fix the outer guide to the inner cable, and set the angled member in the bracket.

Note: Do not wipe the grease on the inner cable off.

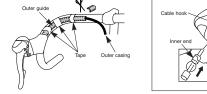
Also, be careful that the inner cable does not pick up dust and foreign matter



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



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



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

Installing the shifting cable

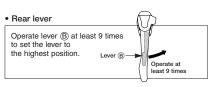
Cable used

 Inner cable (stainless steel) SP41 sealed outer casing (①) SP41 outer casing (②)

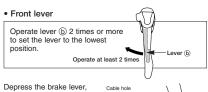
Cutting the outer casing

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

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







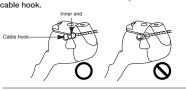
and then pass the inner cable through the cable

< Rear >

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



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



< Front > If the cable hook does not align with the shifting cable hole, press lever (b) again until it does, and then instal the cable.

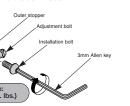
Make sure that the inner end is firmly seated in the

cable hook



Outer stopper

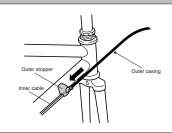
1. Install the outer stopper to the down tube.



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 cutting it to the full length of the handlebars.

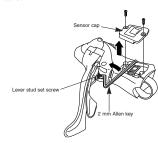


Confirm Make sure the outer casing is firmly seated in the outer stopper

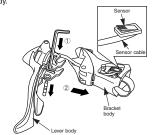
Maintenance

Bracket and lever disassembly

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



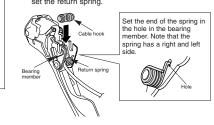
2. Insert a 2.5 mm Allen key or similar tool into the lever stud hole, and tap it gently with a plastic mallet to push out the lever stud. When the lever stud comes out, the bracket body and lever body can be disassembled. After this, pull the sensor cable out from the bracket



When removing the sensor cable, do not apply too much force when pulling the cable, otherwise the sensor may become damaged. Use a tool to hold the sensor in place and pull the cable out carefully.

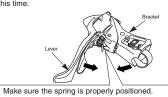
Assembling the bracket and lever

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

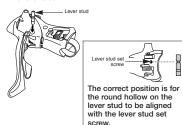


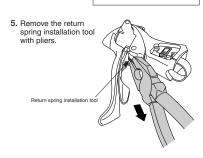
2. Set the special installation tool for the return spring ·····

3. First insert the sensor cable into the bracket body, and then assemble the bracket body and lever body. Be careful that the end of the return spring does not protrude from the hole in the bearing member at this time.

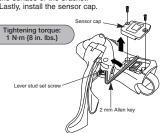


Align the stud holes, and then press-fit the lever stud.



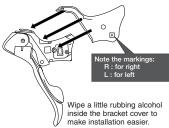


6. Tighten the lever stud set screw until it is even with e surface of the bracket



Replacing the bracket cover

The tabs on the bracket cover each fit to a matchine



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Please note: specifications are subject to change for improvement without notice (English)
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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.