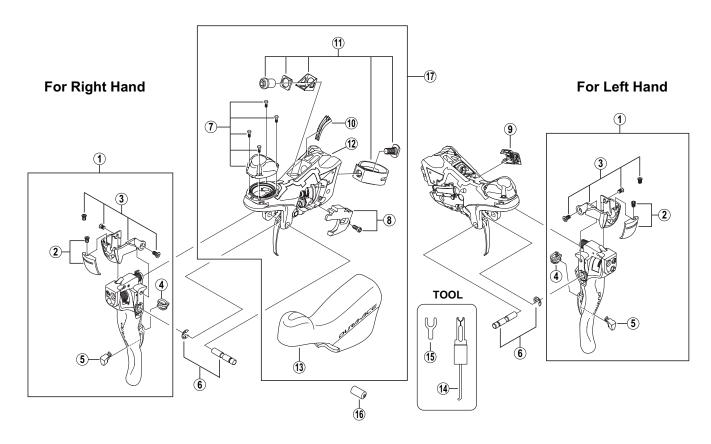
# ST-7900



ITEM NO.	SHIMANO CODE NO.	DESCRIPTION	INTERCHANGE- ABILITY
* 1	Y-6RT98200	R.H. Main Lever Assembly	
	Y-6RT98210	L.H. Main Lever Assembly	
2	Y-6RT98030	R.H. Name Plate A & Fixing Screw	
	Y-6RT98040	L.H. Name Plate A & Fixing Screw	
3	Y-6RT98050	R.H. Name Plate B & Fixing Screws & Fixing Screw for Name Plate A	
	Y-6RT98060	L.H. Name Plate B & Fixing Screws & Fixing Screw for Name Plate A	
4	Y-6RT 56000	R.H. Main Lever Support	
	Y-6RU43000	L.H. Main Lever Support	
5	Y-6RT37010	R.H. Release Lever Support	
	Y-6RU87010	L.H. Release Lever Support	
6	Y-6RT98070	Lever Axle & E-ring	
7	Y-6RT98080	R.H. Top Cover Unitless & Fixing Screws	
	Y-6RT98090	L.H. Top Cover Unitless & Fixing Screws	
* 8	Y-6SC98210	Unit Cover & Fixing Screw	
9	Y-6RU54000	SL Cable Cover	
10	Y-6RT46000	R.H. SL Cable Guide	
	Y-6RU81000	L.H. SL Cable Guide	
11	Y-6RT98130	Clamp Band Unit (φ23.8 mm – φ24.2 mm)	
* 12	Y-6RT98230	R.H. Bracket	
	Y-6RT98150	L.H. Bracket	
13	Y-6RT98160	Bracket Covers (Pair)	
14	Y-6RT68000	Tool A for E-ring	
15	Y-6RT66000	Tool B for E-ring	
16	Y-6RT98170	Nomal Outer Cap for ST-7900 (4 pcs.)	
* 17	Y-6RT98240	R.H. Shifting Lever Unit	
	Y-6RT98190	L.H. Shifting Lever Unit	

A: Same parts.
B: Parts are usable, but differ in materirals, appearance, finish, size, etc. Absence of mark indicates non-interchangeability.

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### ♠ 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 to fall off the bicycle which could result in serious injury.

  • Use the ST-7900/BL-TT79 with the BR-7900. Do not use the
- BR-7900 in combination with previous STI levers for road riding or with the BL-R770/BL-R550 brake levers for flat handlebars, otherwise the braking performance provided wil be much too strong.
- Because of the characteristics of the carbon fiber material, you must never modify the levers, otherwise the lever may break
- and the brakes may no longer work as a result.

  Before riding the bicycle, check that there is no damage such as carbon fiber peeling or cracking. If there is any damage, replace with a new part immediately without trying to repair the damage, otherwise the lever may break and the brakes may no longer work as a result.
- Read these Technical Service Instructions carefully, and keep them in a safe place for later reference.

- Use a soft cloth to clean the carbon fiber levers, and be sure to moisten the cloth with neutral detergent before using it, otherwise the lever material may become damaged and lose its strength. Avoid leaving the carbon fiber levers in places where high
- temperatures are present. Also keep them well away from fire.

  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.
- 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.
- A special grease is used for the gear shifting cable. 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-6RT0A-004

### ST-7900

Shimano Total Integration

## DURA-ACE

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

Series	DURA-ACE	
Shifting lever	ST-7900	
Outer casing	OT-SP41 (SIS-SP41)	
Gears	20	
Front derailleur	FD-7900	
Front chainwheel	FC-7900	
Rear derailleur	RD-7900SS	
Freehub	FH-7900	
Cassette sprocket	CS-7900	
Chain	CN-7900	
Bottom bracket cable guide	SM-SP17	
Cable adjuster	SM-CA70 / SM-CA50	

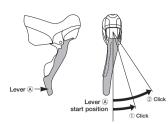
# Operation Rear Front Lever (B) -

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

Lever (b): Shifts from larger to smaller chainring All levers return to the starting position when released.

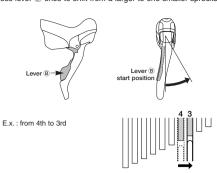
#### Operation of rear derailleur lever

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





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

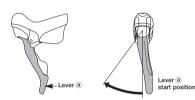


Lever (B) will also move when lever (A) is operated, but be careful not to apply pressure to lever (a). Similarly be careful not to press lever (A) when operating lever (B). Gears will not shift when both levers are pressed simultaneously.

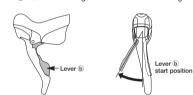
Be sure to read these service instructions in conjunction with the service ctions for the RD-7900 before use

#### Operation of front derailleur levers

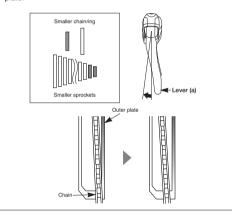
• Lever (a): Shifts from smaller to larger front chainring



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



If the outer plate touches the chain when the chain is at the gea position shown in the illustration, operate lever (a) slightly to move the derailleur so that the chain no longer touches the outer



#### Caution on operation (FD-7900)

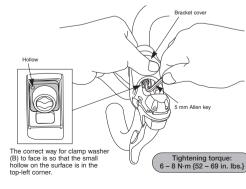
Lever (b) will also move when lever (a) is operated, but be careful not to apply pressure to lever b. Similarly be careful not to press lever a when operating lever b. Gears will not shift when both levers are pressed simultaneously

Be sure to read these service instructions in conjunction with the service instructions for the FD-7900 before use

#### Installation

#### Installation to the handlebar

Move the bracket cover forward, and then securely tightening the mounting nut with a 5 mm Allen key

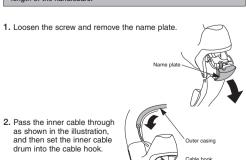


When installing the components to carbon frame/handle bar surfaces, verify with the manufacturer of the carbon frame/parts for their recommendation on tightening torque in order to prevent over tightening that can cause damage to the carbon material and/or under tightening that can cause lack of fixing strength for the

#### Installation of the brake cable

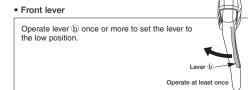
Cable used • Inner cable (PTFE inner cable) · · · · ·

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



3. Install the name plate

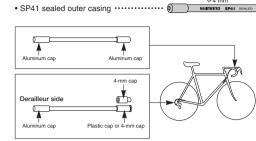
Tightening torque: 0.15 - 0.2 N·m {1.3 - 1.8 in. lbs.}



### Installing the shifting cable

- Use a proper inner cable.
- It is recommended that you use an outer casing with an aluminum

# • Inner cable (PTFE inner cable) · · · ·



#### Cutting the outer casing

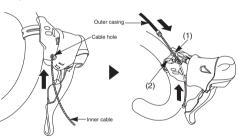
When cutting the outer casing, cut the opposite end to the end with the marking. After cutting the outer casing, make the end round so that the inside of the

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



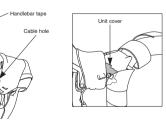
 Rear lever Operate lever  ${}^{\textcircled{\tiny{\textbf{B}}}}$  at least 9 times to set the lever to the highest position.

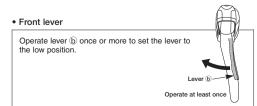
Pass the inner cable through the cable hole. The outer casing can be routed in two directions; either through cable guide (1) (inside) or cable guide 2 (outside).



When removing parts in order to replace the inner cable, the work can be carried out more easily if the unit cover is removed as shown in the illustration Tightening torque: 0.2 N·m {1.8 in. lbs.}

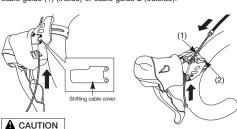
Be careful not to cover the cable holes or the unit cover when wrapping on the handlebar tape. If the handlebar tape covers these places, it will not be possible to replace the inner cable



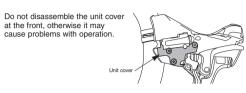


Pass the inner cable through the cable hole.

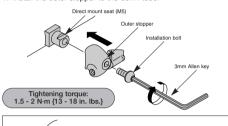
The outer casing can be routed in two directions: either through cable guide (1) (inside) or cable guide 2 (outside)



Be sure to install the shifting cable cover before use. If it is not ed, injury may occui

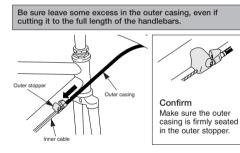


- Outer stoppe
- 1. Install the outer stopper to the down tube.





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

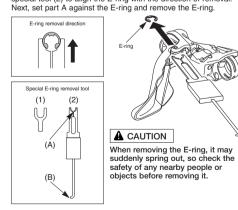


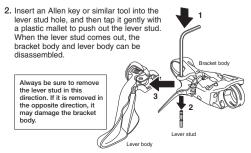
#### Maintenance

\* The illustration shows the right-hand lever

#### **Bracket and lever disassembly**

1. First use the special tool to remove the F-ring. Use part (B) of the special tool (2) to align the E-ring with the direction of rem. Next, set part A against the E-ring and remove the E-ring.

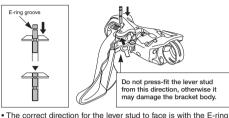




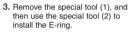
# Assembling the bracket body and lever

body 1. Insert the connector lever into the main lever support, and then assemble the bracket body and lever body Next, insert the end of the return spring into

2. Align the stud holes, and then set the special tool (1) in the position shown in the illustration to press-fit the lever stud.



- groove at the top. • Check that the surface of the bracket body is flush with the top
- of the lever stud to ensure that the E-ring can fit into the





## Replacing the main lever support

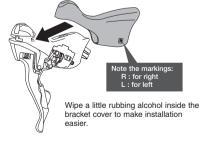
Insert the main lever support so that it pushes against the lever body dropprevention notch.



Replacing the cable guide Use this hole to replace the cable guide.

#### Replacing the bracket cover

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



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Service Instructions in further languages are available at : http://techdocs.shimano.com

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