



ST-7703

Front Dual Control Lever

Before use, read these instructions carefully, and follow them for correct use.

WARNING

- Obtain, read and carefully service instructions when installing parts. A loose, worn, or damaged parts may cause injury to the rider.
We strongly recommend that only genuine Shimano replacement parts be used.

Shimano Total Integration Features

The Shimano Total Integration Dura-Ace 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	DURA-ACE
Shifting lever	ST-7703
Outer casing	SP40
Gears	27
Front derailleur	FD-7703
Front chainwheel	FC-7703
Bottom bracket	BB-7703
Rear derailleur	RD-7700 (GS Type)
Freehub	FH-7700 / WH-7700
Cassette sprocket	CS-7700
Chain	CN-7701
Bottom bracket cable guide	SM-SP17

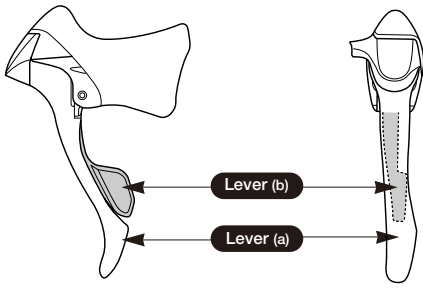
Note

- For smooth operation, use the specified outer casing and bottom bracket cable guide.
- Grease the inner cable and the inside of the outer casing before use to ensure that they slide properly.
- Operation of the levers related to gear shifting should be made only when the front chainwheel is turning.
- The cycle computers shown in the table below are compatible.

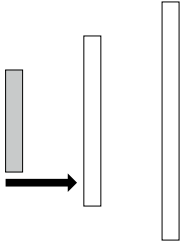
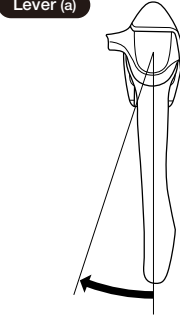
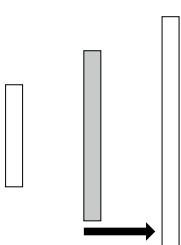
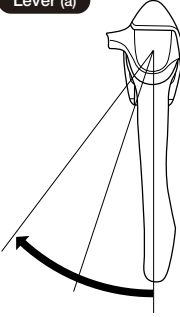
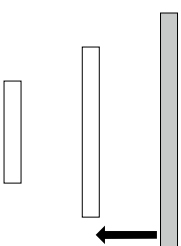
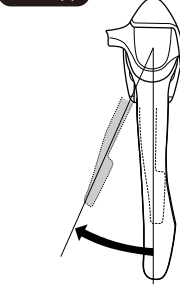
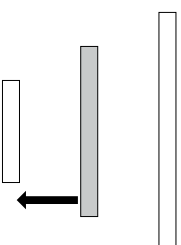
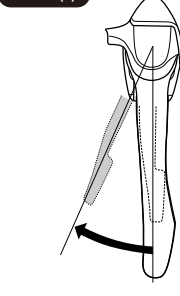
Meter unit	SC-6500/SC-6501/SC-M500
Bracket sensor unit	SM-6500-RS/SM-6501

- Read the service instructions for the cycle computer also.
- Please refer to the Service Instructions for the ST-7700-C for details on installation and maintenance.
- Be sure to read these service instructions in conjunction with the service instructions for the FD-7703 before 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.

Gear shifting operations

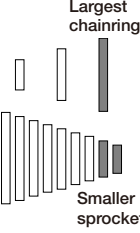
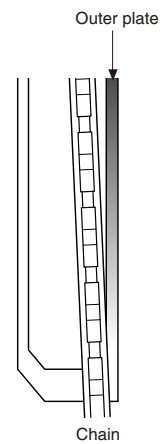

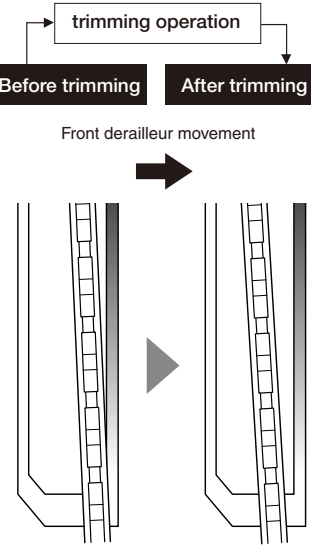
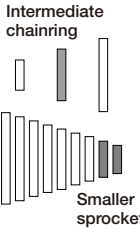

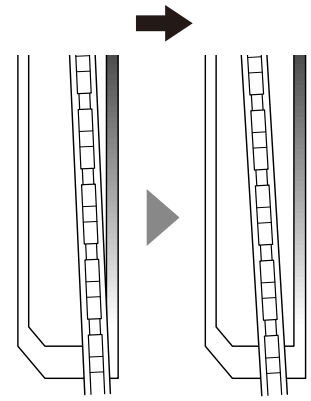
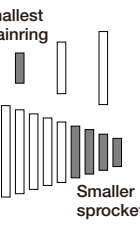

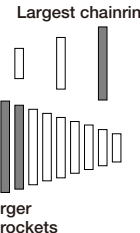
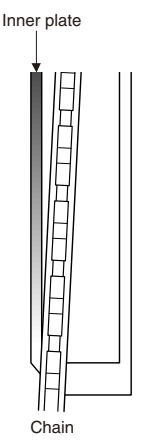
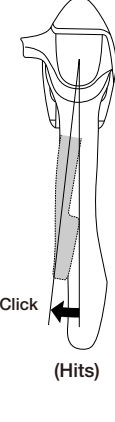
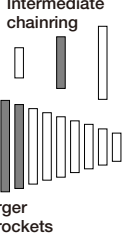
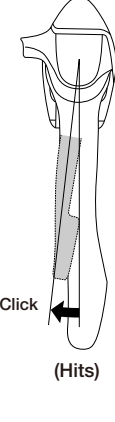
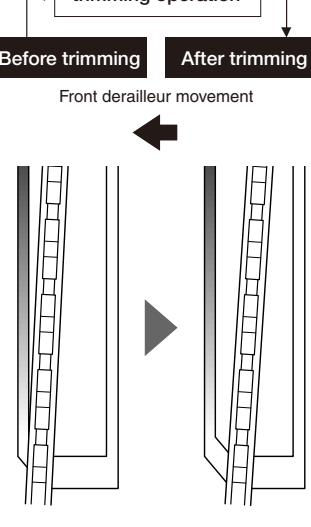
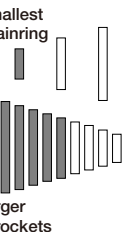
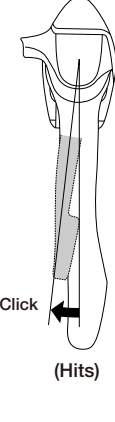


Lever (b) will also move when lever (a) is operated, but be careful not to apply pressure to lever (b). Similarly be careful not to press lever (a) when operating lever (b). Gears will not shift when both levers are pressed simultaneously.

Type of shifting	Lever operation	
<p>Smallest chainring → Intermediate chainring</p> 	<p>Lever (a)</p> 	<p>Operate lever (a) until gear shifting is complete.</p>
<p>Intermediate chainring → Largest chainring</p> 	<p>Lever (a)</p> 	
<p>Largest chainring → Intermediate chainring</p> 	<p>Lever (b)</p> 	<p>Operate lever (b) until gear shifting is complete.</p>
<p>Intermediate chainring → Smallest chainring</p> 	<p>Lever (b)</p> 	

Trimming (noise prevention mechanism) operation

Depending on the position of the chain after shifting, the chain may rub against the chain guide outer plate or the chain guide inner plate of the front derailleur, producing a characteristic noise. If this sort of thing happens, you can press lever (a) or lever (b) slightly to move the front derailleur a little way so that it does not touch the chain. This operation is called "trimming". Trimming can be carried out whether the chain is on the largest, intermediate or smallest chainring. If noise occurs when the chain is in one of the positions shown below, carry out trimming to eliminate the noise.

Chain position	Symptom	Trimming operation			
		Lever operation	Front derailleur movement		
<p>Largest chainring</p>  <p>Smaller sprockets</p>	<p>Outer plate</p>  <p>Chain</p>	<p>Lever (a)</p>  <p>Click (Hits)</p>	<p>trimming operation</p> <p>Before trimming After trimming</p> <p>Front derailleur movement</p> 		
<p>Intermediate chainring</p>  <p>Smaller sprockets</p>			<p>Lever (a)</p>  <p>Click (Hits)</p>	<p>trimming operation</p> <p>Before trimming After trimming</p> <p>Front derailleur movement</p> 	
<p>Smallest chainring</p>  <p>Smaller sprockets</p>					<p>Lever (a)</p>  <p>Click (Hits)</p>
<p>Largest chainring</p>  <p>Larger sprockets</p>	<p>Inner plate</p>  <p>Chain</p>	<p>Lever (b)</p>  <p>Click (Hits)</p>			
<p>Intermediate chainring</p>  <p>Larger sprockets</p>			<p>Lever (b)</p>  <p>Click (Hits)</p>	<p>trimming operation</p> <p>Before trimming After trimming</p> <p>Front derailleur movement</p> 	
<p>Smallest chainring</p>  <p>Larger sprockets</p>					<p>Lever (b)</p>  <p>Click (Hits)</p>

