

# SERVICE INSTRUCTIONS

## ST-M060 ST-M050-R/L ST-M050-C

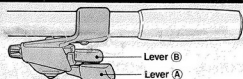
### Rapidfire

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

#### Operation

##### Caution:

Do not press both right hand (rear) shift control levers **A** and **B** or both left hand (front) shift control levers **a** and **b** at the same time. Damage to the shift control may result.



#### ● Lever A (shifting from a small sprocket to a larger sprocket)

① To shift one gear at a time from a small sprocket to a larger sprocket

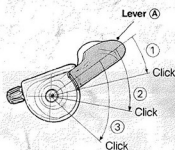
**Example:** from 2nd to 3rd

② To shift two gears at a time from a small sprocket to a larger sprocket

**Example:** from 2nd to 4th

③ To shift three gears at a time from a small sprocket to a larger sprocket

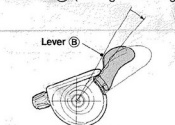
**Example:** from 2nd to 5th



#### ● Lever B (shifting from a large sprocket to a small sprocket)

When lever **B** is pressed once, there is a one-stop shift from a larger gear to a smaller gear.

**Example:** from 3rd to 2nd



#### Front lever operation

Lever **a** does not include a position-finding mechanism.

#### ● Lever a (shifting from a small chainwheel to a larger chainwheel)

When it is pressed one time, there is a shift of one gear from a smaller chainwheel to a larger chainwheel.

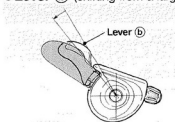
**Example:** from mid-range to largest chainwheel



#### ● Lever b (shifting from a large chainwheel to a smaller chainwheel)

When it is pressed one time, there is a shift of one gear from a large chainwheel to a smaller chainwheel.

**Example:** from largest chainwheel to mid-range.



#### ● Noise-prevention mechanism (trimming)

If chain noise occurs, due to oversighting, when a shift is made from the smallest chainwheel to the intermediate chainwheel, the oversighting can be adjusted by gently pressing lever **b** to move the front derailleur slightly toward the small chainwheel, thus activating the noise-prevention mechanism.

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

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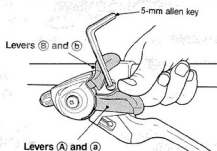
#### Notes:

- Be sure to follow the recommendations below regarding combinations of components.
  - Rapidfire.....ST-M060/ST-M050/ST-M050-C/ST-M070
  - Rear derailleur.....RD-M550/RD-M500/RD-M500-C/RD-M400/RD-M300/RD-M650
  - Free hub.....FH-M550/FH-HG50/FH-M650
  - Cassette sprocket (7-speed).....CS-HG70/CS-HG50
  - Front derailleur.....FD-M550/FD-M500/FC-M500-C/FD-M400/FD-M300/FD-M650
  - Front chainwheel.....FC-M550/FC-M500/FC-M500-C/FC-M400/FC-M300/FC-MT60-SG
  - Chain.....CN-HG70/CN-HG50
  - Brake.....BR-M550/BR-M501/BR-M502/BR-C510/BR-M453/BR-M454/BR-M452/BR-M351/BR-M250/BR-M201/BR-MT62/BR-MT63
- Outer cable.....Shimano SIS-SP cable (shifting)  
Shimano SLR outer cable (brake)
- Because the wire efficiency is poor, the type of frame with inner cable incorporated cannot be used.
- ST-M060 and ST-M050 cannot be used in combination with the Dura-Ace rear derailleur.

#### Installation

##### Installation to the handlebar

Move lever **a** and lever **b** so that the installation bolt can be seen, and then use a 5-mm allen key to install.



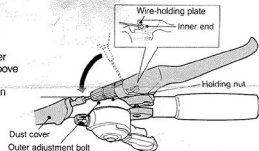
Installation torque:  
60—80 kgfcm  
(50—70 in.lbs.)

##### Installation of the brake cable

Use the  $\varnothing$ 1.6-mm inner cable and  $\varnothing$ 5-mm outer casing.

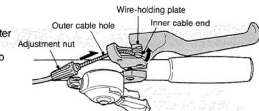
#### ● ST-M060

- ① Attach the inner end to the wire-holding plate.
- ② Align the groove of the outer adjustment bolt and the groove of the holding nut with the groove in the lever, and then connect the brake cable.



#### ● ST-M050

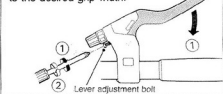
- ① Insert the cable into the outer cable hole.
- ② Hook the inner cable end to the wire-holding plate.



#### Note:

Check to be sure that the adjustment nut is seated in the outer cable hole.

Turn the lever adjustment bolt to adjust to the desired grip width.

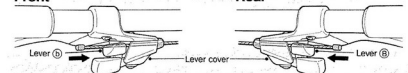


##### Connection of the shifting cable

First, for the rear, press lever **b** six times or more, and then, for the front, press lever **b** three or four times.

#### Front

#### Rear



Never remove the lever cover. Do not loosen the lever cover installation bolt.

