

SM-EW79A-I

Electric Cables

* This electric cable is used when installing the ST-7971 / SW-7971 to the aero bar.

CAUTION

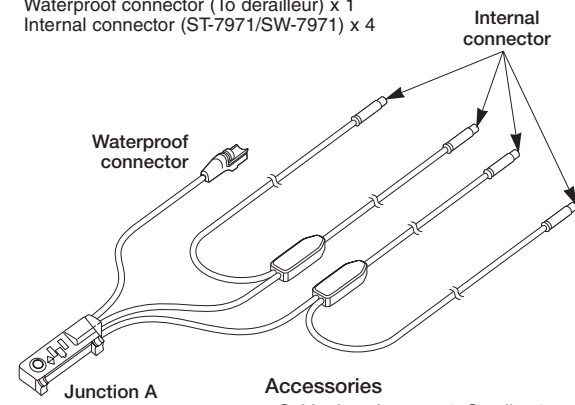
- If using an industrial-use dryer, make sure that no burning from the hot air occurs.

Note

- Always be sure to use the TL-EW01 special tool to remove the cable.
- Be careful not to let water get into the terminal.
- Be sure to read these service instructions in conjunction with the service instructions for the ST-7971/SW-7971 before use.

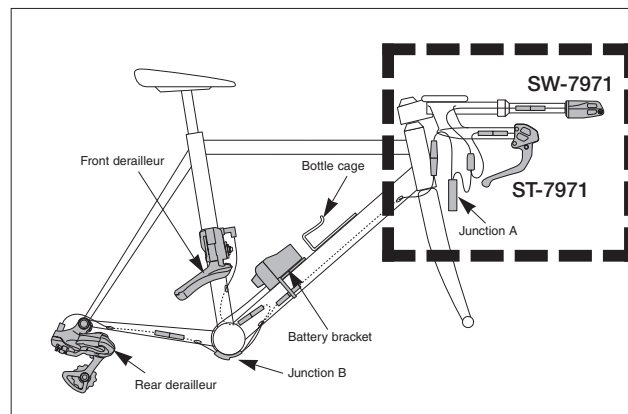
Components

- Junction A
- Connectors / 5 places
 Waterproof connector (To derailleur) x 1
 Internal connector (ST-7971/SW-7971) x 4



Routing Map

Names and locations of each part

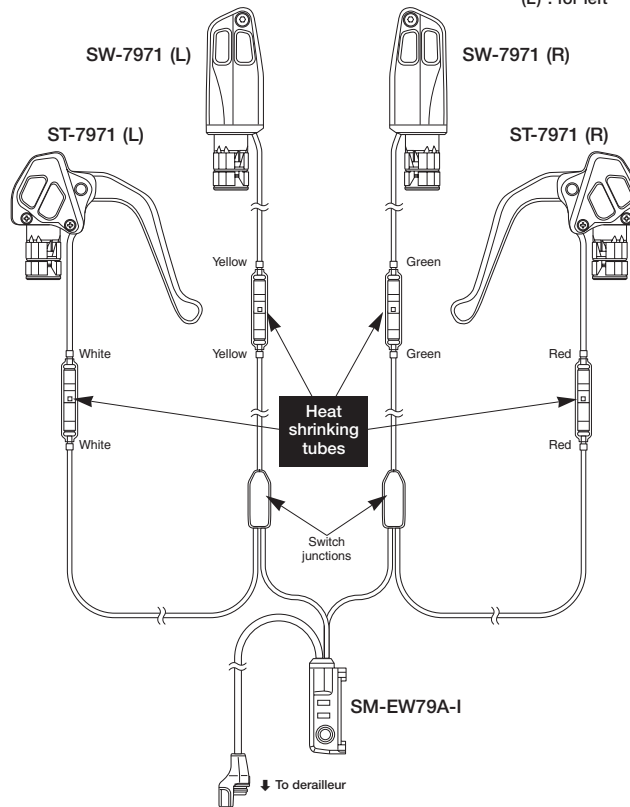


• Refer ST-7970/7971 service instructions for button indicator operations.

Connecting the electric cables

Cable connection diagram

(R) : for right
(L) : for left



1. When connecting the connectors of the various cables, insert the connectors into the heat shrinking tube.
2. The cables have colored tubes attached to them for identification purposes, so when connecting the cables, be sure to match the colors correctly while referring to the cable connection diagram.

Note:

- Check that there are no foreign particles inside the connectors.
- Check that the directions of the connectors are correct and that they are securely inserted into the opposing terminals and are not raised up.

3. After connecting the connectors, be sure to check that operation is correct before processing the heat shrinking tube.

Attaching the heat shrinking tubes

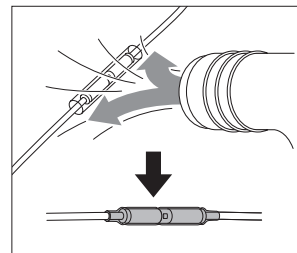
Use an industrial-use dryer to shrink the tubes from the middles toward the ends, while trying to expel as much air as possible. Heat the tubes until they become transparent and until melted adhesive is protruding from both ends.

CAUTION

- If using an industrial-use dryer, make sure that no burning from the hot air occurs.

Note

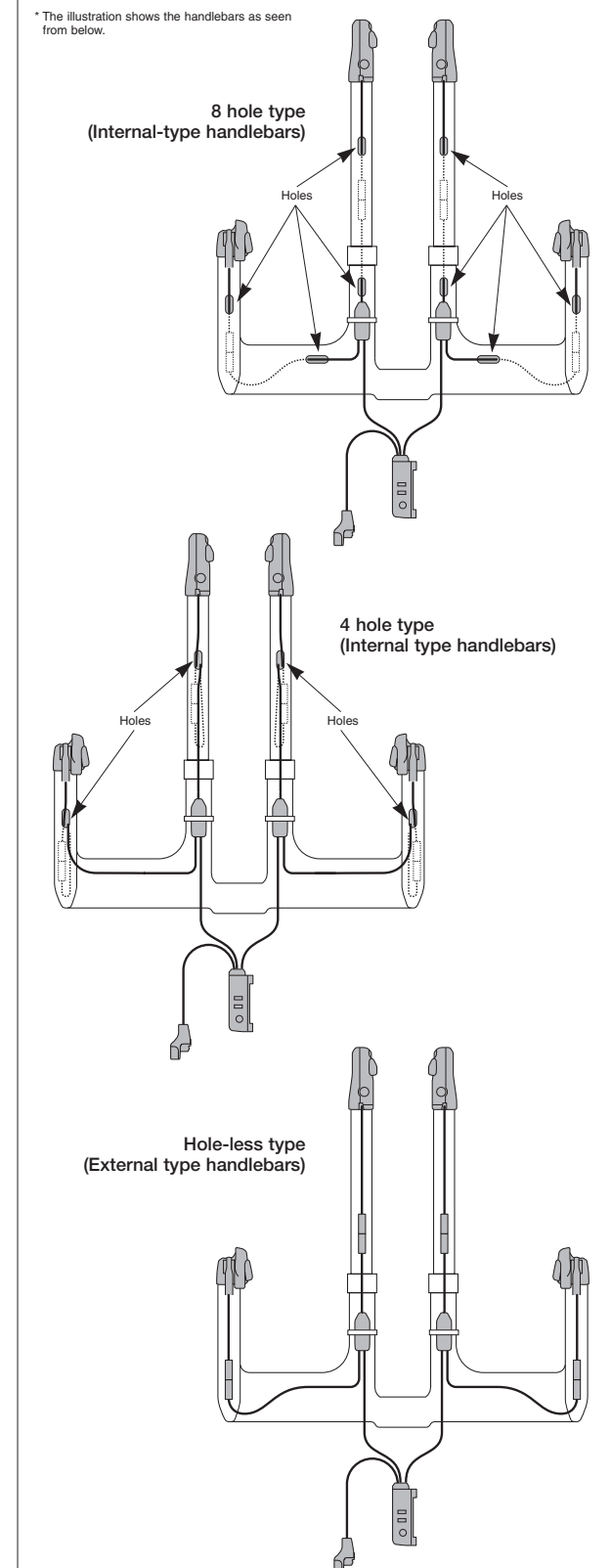
- Do not heat the tubes any more than necessary.
- The heat shrinking tubes are important components for waterproofing, preventing the connectors from pulling out and strengthening the housing openings, so do not use anything other than genuine parts.
- Because the tubes contain adhesive, do not reuse the electric cables after this process has been carried out. Use new cables if carrying out any replacements.



Routing the electric cables

There are three methods of installation that can be used depending on the holes in the handlebars.

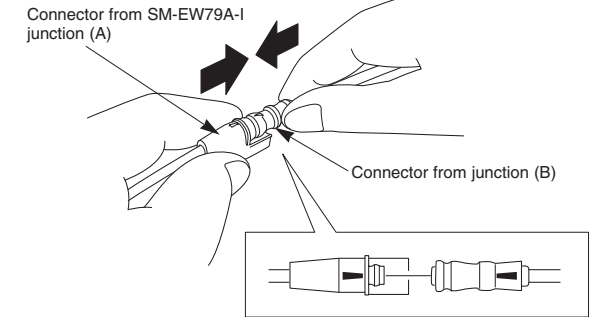
- Hole size: Width 7 mm / length 21 mm or more
- Secure the switch junctions with cable ties.



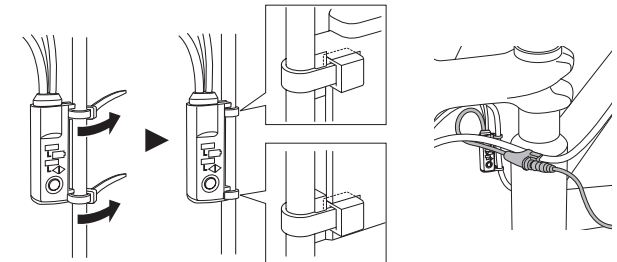
* Run an excess length of cable along the handlebars and secure it to the handlebars with cable ties.

Connecting to junction B

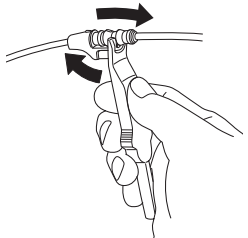
Insert the connector coming from junction (A) into the connector coming from junction (B) so that the triangular marks (▲) on the connectors are aligned with each other. Push the connectors together until they connect with a click. Because of the waterproof structure of the connectors, they do not fit together rigidly. Be sure to push them together until they connect with a click.



Use the accessory cable ties to secure junction (A) to the outer casing of the brake cable. In addition, set the connector of junction (A) onto the outer casing of the rear brake cable as shown in the illustration.



- Install the battery in order to check the connections. Operate the shifting switch and check that the front derailleur and rear derailleur both operate.
- Be sure to operate shifting switch (Y) for the left lever once or more to set the front derailleur to the large chainring position for greater ease when installing the chain. After this, be sure to remove the battery.
- In addition, use the wide end of the TL-EW01 special tool when disconnecting the connectors. If you pull too firmly on the connectors, problems with operation may occur. Insert the special tool so that the flat side is facing toward the outer casing holder, and then tilt it so as to pull out the connector.



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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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