Thank you for purchasing Shimano products.

- This instruction manual explains the operation of the E-TUBE PROJECT. Be sure to read this manual before use in order to fully utilize the functions.
- In order to use E-TUBE PROJECT, the SM-PCE1 interface is required.

Check the following support site for the latest support information.

http://e-tubeproject.shimano.com
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REGISTERED TRADEMARKS AND TRADEMARKS ..........................................20
1. SW-E6000
2. SW-S705
3. BOSCH eBike Drive Unit
4. EW-EX010, EW-EX020
5. MU-S705
6. SW-M9050-L/R, SW-M9050
This function is used to customize the E-BIKE system. The BOSCH eBike Drive Unit and other E-BIKE Drive Units cannot customize with E-TUBE PROJECT. The only menu items that can be used are [Switch setting], [Derailleur adjustment setting], and [Motor unit gear setting].

1. Click [Customize] in the main menu screen.

2. Click [Switch setting], [Derailleur adjustment setting], [Motor unit gear setting] in the customize menu screen to go to each setting screen.
**Switch setting**

You can change the function to assign switches (X) · (Y) and (Z).

For SW-9050-L/SW-9050-R/SW-8050-R, the (X2) and (Y2) switches may also be enabled.

Select the desired setting for each switch.

* Click [Restore default values] and then [Set] to reset the switch function to default.

**SW-S705**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Rear Shift Up]</td>
<td>The internal geared hub shifts from a light gear to a heavier gear.</td>
</tr>
<tr>
<td>[Rear Shift Down]</td>
<td>The internal geared hub shifts from a heavy gear to a lighter gear.</td>
</tr>
</tbody>
</table>
### SW-E6000 for Shift

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Display]</td>
<td>Switch the screens of the display monitor.</td>
</tr>
<tr>
<td>[Rear Shift Up]</td>
<td>The internal geared hub shifts from a light gear to a heavier gear.</td>
</tr>
<tr>
<td>[Rear Shift Down]</td>
<td>The internal geared hub shifts from a heavy gear to a lighter gear.</td>
</tr>
</tbody>
</table>

### SW-M9050-L/R

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Rear Shift Up]</td>
<td>The internal geared hub shifts from a light gear to a heavier gear.</td>
</tr>
<tr>
<td>[Rear Shift Down]</td>
<td>The internal geared hub shifts from a heavy gear to a lighter gear.</td>
</tr>
<tr>
<td>[Use X2]</td>
<td>(X2) switch is enabled.</td>
</tr>
<tr>
<td>[Use Y2]</td>
<td>(Y2) switch is enabled.</td>
</tr>
</tbody>
</table>

### SW-M8050-R

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Rear Shift Up]</td>
<td>The internal geared hub shifts from a light gear to a heavier gear.</td>
</tr>
<tr>
<td>[Rear Shift Down]</td>
<td>The internal geared hub shifts from a heavy gear to a lighter gear.</td>
</tr>
<tr>
<td>[Use X2]</td>
<td>(X2) switch is enabled.</td>
</tr>
<tr>
<td>[Use Y2]</td>
<td>(Y2) switch is enabled.</td>
</tr>
</tbody>
</table>
The derailleur can be adjusted.

* Usually, this operation is not necessary.

1. Display the customize menu screen.
2. Click [Derailleur adjustment setting] in the customize menu screen.
   - Displays the current set value in [Setting value]. (-4 to +4)
   - Displays the current number of sprockets in [Gear position]. (1 to 8 or 1 to 11)
   - During this operation, the derailleur will not operate even when the shift switch of SW-S705 and SW-E6000 is operated.
   - The crank does not need to be rotated for operations related to adjustment and gear-shifting.

The settings to be adjusted are as follows.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Adjustment Setting]</td>
<td>[Down] The components that control gear-shifting rotate in the direction to indicate a lighter gear (clockwise, direction of “-” indication).</td>
</tr>
<tr>
<td></td>
<td>[Up] The components that control gear-shifting rotate in the direction to indicate a heavier gear (counterclockwise, direction of “+” indication).</td>
</tr>
<tr>
<td>[Gear position change]</td>
<td>[Down] Gears will be shifted to a lighter gear.</td>
</tr>
<tr>
<td></td>
<td>[Up] Gears will be shifted to a heavier gear.</td>
</tr>
</tbody>
</table>

4. Click [Set] to complete adjustment.
Motor unit gear setting

MU-S705 can be used for hubs of SW-S705 (11 gears), SG-S505 (8 gears) and SG-C6060 (8 gears) by making additional settings. These settings can be made with the motor unit gear setting.

- Before making the motor unit gear setting, check the derailleur to be installed.

1. Display the customize menu screen.
2. Click [Motor unit gear setting] in the customize menu screen.

The items that can be set are as follows.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[8 gear(s)]</td>
<td>Select this when MU-S705 is installed to SG-S505 / SG-C6060.</td>
</tr>
<tr>
<td>[11 gear(s)]</td>
<td>Select this when MU-S705 is installed to SG-S705.</td>
</tr>
</tbody>
</table>

3. Click any setting and then [Set] in the motor unit gear setting screen.
When a single unit or multiple units are connected, this function checks their operation and identifies any units which have a problem.

1. **Click [Error check] in the main menu screen.**

2. **Select the unit you want to check and then click [start diagnosis].**
   - An error check of the selected unit will start. Perform operations following the instructions on the screen.

Refer to this manual regarding methods for dealing with errors diagnosed in the EW-EX010, EW-EX020 or other E-BIKE Drive Unit.

→ Refer to the section “For DI2 Adapter A and B”.

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Click [Unit log acquisition] on the main menu screen.

- Acquires various data from the connected units and displays them in a report format. The report is displayed in PDF format.
- In the report, you can check the settings of each unit and the battery status.
- Data from the EW-EX010, EW-EX020, BOSCH eBike Drive Unit, and other E-BIKE Drive Units will not be output to the report.
Dear customers using the BOSCH eBike system,

- If using the BOSCH eBike system, some of the displayed information may be different. Please read displayed E-TUBE PROJECT messages carefully and check the proposed solutions.
When Electric power is not supplied to Shimano DI2 Adapter

1. “Power is not being supplied from E-BIKE System to Shimano DI2 Adapter.”
   → Refer to the section “Resolution(DI2 Adapter A)”.

2. “Power is not being supplied from BOSCH eBike System to Shimano DI2 Adapter.”
   → Refer to the section “Resolution(DI2 Adapter B)”.

- Resolution(DI2 Adapter A)
  1. Battery may not be connected properly.
     ● Check if battery is installed correctly to bike.
  2. Battery may be empty.
     ● Check the battery level.
  3. E-BIKE System may not be working.
     ● Check complete bike functionality.
       (Examples: Error messages in the E-BIKE system display, E-BIKE motor support, Shimano DI2 shifts)
  4. Connection cable may not be connected properly.
     ● Check cable connection (unplug and plug back in, check plug connection)
  5. Connection cable may be damaged.
     ● Replace the connection cable.
  6. Shimano DI2 Adapter may be faulty.
     ● E-TUBE PROJECT Error Check for single part.
     ● Replace the Shimano DI2 Adapter.
When Electric power is not supplied to Shimano DI2 Adapter

- **Resolution(DI2 Adapter B)**
  1. BOSCH battery may not be connecter properly.
     - Check if BOSCH battery is installed correctly to bike and LED is on.
  2. BOSCH battery may be empty.
     - Check the BOSCH battery LED is on.
  3. BOSCH eBike System may not be working.
     - Check complete bike functionality.
       (Examples: Error messages in display, BOSCH motor support, Shimano DI2 shifts)
  4. Connection cable may not be connecter properly.
     - Check cable connection (unplug and plug back in, check plug connection).
  5. Connection cable may be damaged.
     - Replace the connection cable.
  6. Shimano DI2 Adapter may be faulty.
     - E-TUBE PROJECT Error Check for single part.
     - Replace the Shimano DI2 Adapter.
When signal is not available but electric power is supplied to Shimano DI2 Adapter

**When signal is not available but electric power is supplied to Shimano DI2 Adapter**

- **E-TUBE PROJECT** display message
  1. “Communication cannot be established between E-BIKE Drive Unit and Shimano DI2 Adapter.”
     → Refer to the section "Resolution(DI2 Adapter A)“.
  2. “Communication cannot be established between BOSCH eBike Drive Unit and Shimano DI2 Adapter.”
     → Refer to the section "Resolution(DI2 Adapter B)“.

- **Resolution(DI2 Adapter A)**
  1. E-BIKE System may not be working.
     - Check complete bike functionality.
       (Examples: Error messages in the E-BIKE system display, E-BIKE motor support, Shimano DI2 shifts)
     - Check E-BIKE System with E-BIKE diagnosis tool.
  2. Connection cable may not be connected properly.
     - Check cable connection (unplug and plug back in, check plug connection).
  3. Connection cable may be damaged.
     - Replace the connection cable.
  4. E-BIKE Drive Unit may be an unknown system to Shimano.
     - Check Dealer’s Manual for DI2 Adapter A(refer to the website [http://si.shimano.com/](http://si.shimano.com/)).
  5. Shimano DI2 Adapter may be faulty.
     - E-TUBE PROJECT Error Check in single part.
     - Replace the Shimano DI2 Adapter.
When signal is not available but electric power is supplied to Shimano DI2 Adapter

- **Resolution(DI2 Adapter B)**

1. BOSCH eBike System may not be working.
   - Check complete bike functionality.
     (Examples: Error messages in the Display, BOSCH motor support, Shimano DI2 shifts)
   - Check E-BIKE System with BOSCH diagnosis tool.

2. BOSCH Y-Harness may not be connected properly.
   - Check cable connection (unplug and plug back in, check plug connection).

3. BOSCH Y-Harness may be damaged.
   - Replace the BOSCH Y-Harness (if possible measure at the plug, refer to the BOSCH dealer training website [http://ebike.bosch.com](http://ebike.bosch.com)).

4. E-BIKE Drive Unit may be an unknown system to Shimano.
   - Maybe it is not a BOSCH eBike system.

5. Shimano DI2 Adapter may be faulty.
   - E-TUBE PROJECT Error Check in single part.
   - Replace the Shimano DI2 Adapter.
When signal and electric power are available

When connected Drive Unit is not supported by Shimano DI2 Adapter

- E-TUBE PROJECT display message
  “E-BIKE Drive Unit is not supported by Shimano DI2 Adapter.”
  →Refer to the section “Resolution(DI2 Adapter B)“.

- E-TUBE PROJECT display message
  “Check Dealer’s Manual for DI2 Adapter A (refer to the website http://si.shimano.com/).“

- E-TUBE PROJECT display message
  “BOSCH 2nd generation E-BIKE system SpeedBike and US-Version are judged like this.“

When connected Drive Unit is not compatible version for Shimano DI2 Adapter

- E-TUBE PROJECT display message
  “The software version of E-BIKE Drive Unit is not supported. “
  →Refer to the section “Resolution(DI2 Adapter A)“.

- Resolution(DI2 Adapter A)
  1. Update the firmware of Shimano DI2 Adapter, if it is not the latest version.
  2. Check how to resolve problem by connecting to the E-BIKE diagnosis tool.

- Resolution(DI2 Adapter B)
  Update software via the BOSCH Diagnosis tool to the newest BOSCH eBike System Software.
  (Refer to http://ebike.bosch.com)
When signal and electric power are available

When Shimano Di2 Adapter may be faulty

- E-TUBE PROJECT display message
  “Shimano Di2 Adapter may be faulty.”

- Resolution
  1. E-TUBE PROJECT Error Check in single part.
  2. Replace the Shimano Di2 Adapter.

When Shimano Di2 Adapter is not permitted

- E-TUBE PROJECT display message
  “E-BIKE Drive Unit doesn’t permit Shimano Di2 Adapter to work.”
  → Refer to the section “Resolution(Di2 Adapter A)”.
  “BOSCH eBike Drive Unit doesn’t permit Shimano Di2 Adapter to work.”
  → Refer to the section “Resolution(Di2 Adapter B)”.

- Resolution(Di2 Adapter A)
  1. Check complete bike functionality.
     (Examples: Error messages in Display, E-BIKE motor support, Shimano Di2 shifts)
  2. Check E-BIKE System with E-BIKE diagnosis tool.

- Resolution(Di2 Adapter B)
  1. Check complete bike functionality.
     (Examples: Error messages in Display, BOSCH motor support, Shimano Di2 shifts)
  2. Check BOSCH eBike System with BOSCH diagnosis tool.
When performing an error check on Shimano DI2 Adapter alone

- **E-TUBE PROJECT display message**
  “Connect only DI2 Adapter and/or E-BIKE Drive Unit to the PC.”
  → Refer to the section “Resolution(DI2 Adapter A)”.
  “Connect only DI2 Adapter and/or BOSCH eBike Drive Unit to the PC.”
  → Refer to the section “Resolution(DI2 Adapter B)”.

- **Resolution(DI2 Adapter A)**
  When an error check is carried out by a single DI2 Adapter, or when the above message is displayed on E-TUBE PROJECT, connect to the PC with only the Shimano DI2 Adapter or with only the E-BIKE Drive Unit connected to the Shimano DI2 Adapter.
  Disconnect other Shimano DI2 related products, E-BIKE batteries, and other E-BIKE system units.
  The cable does not need to be disconnected.
  After that, follow the instructions on the E-TUBE PROJECT screen and carry out an error check.

- **Resolution(DI2 Adapter B)**
  When an error check is carried out by a single DI2 Adapter, or when the above message is displayed on E-TUBE PROJECT, connect to the PC with only the Shimano DI2 Adapter or with only the BOSCH eBike Drive Unit connected to the Shimano DI2 Adapter.
  Disconnect other Shimano DI2 related products, BOSCH batteries, and other BOSCH eBike system units.
  The cable does not need to be disconnected.
  After that, follow the instructions on the E-TUBE PROJECT screen and carry out an error check.
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