FOREWORD
This Assembly Manual contains the information required for the correct assembly of this Yamaha bicycle prior to delivery to the customer. Since some external parts of the bicycle have been removed at the Yamaha factory for the convenience of packing, assembly by the Yamaha dealer is required. No adjustment of the power unit mechanism, which plays the most important part in riding, is necessary because it has been adjusted at the factory before shipping. It should be noted that the assembled bicycle should be thoroughly cleaned, checked, and adjusted prior to delivery to the customer.

IMPORTANT
The service specifications given in this assembly manual are based on the model as manufactured. Yamaha Motor Company, Ltd. is continually striving to improve all of its models. Modifications and significant changes in specifications or procedures will be forwarded to all authorized Yamaha dealers and will appear in future editions of this manual where applicable.

The procedures below are described in the order that the procedures are carried out correctly and completely. Failure to do so can result in poor performance and possible harm to the bicycle and/or rider.

CONCERNING CRATE DAMAGE:
Follow the instructions in the Dealer Warranty Handbook, Procedure Section.

Particularly important information is distinguished in this manual by the following notations.

<table>
<thead>
<tr>
<th>Notation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🚨</td>
<td>This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.</td>
</tr>
<tr>
<td>🚨 WARNING</td>
<td>A WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.</td>
</tr>
<tr>
<td>🚨 NOTICE</td>
<td>A NOTICE indicates special precautions that must be taken to avoid damage to the bicycle or other property.</td>
</tr>
<tr>
<td>🚨 TIP</td>
<td>A TIP provides key information to make procedures easier or clearer.</td>
</tr>
</tbody>
</table>
**NOTICE**

- Do not use a cutter, scissors, or other sharp object to open the part boxes; otherwise, the included parts could be damaged.
- Wear suitable protective gear such as gloves when handling and opening the part boxes.

1. Part box 1
2. Front wheel
### INCLUDED PARTS

The parts listed as follows are included*. Check the parts and their quantities before starting assembly.

<table>
<thead>
<tr>
<th>No.</th>
<th>Part names</th>
<th>Q’ty</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>①</td>
<td>Front wheel</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>②</td>
<td>Part box 1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>③</td>
<td>Part box 2</td>
<td>1</td>
<td>② in part box 1</td>
</tr>
<tr>
<td>④</td>
<td>Part box 3</td>
<td>1</td>
<td>② in part box 1</td>
</tr>
</tbody>
</table>

#### Part box 1 details

<table>
<thead>
<tr>
<th>No.</th>
<th>Part names</th>
<th>Q’ty</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>⑤</td>
<td>Saddle</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

#### Part box 2 details

<table>
<thead>
<tr>
<th>No.</th>
<th>Part names</th>
<th>Q’ty</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>⑥</td>
<td>Front axle</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>⑦</td>
<td>Pedals</td>
<td>2</td>
<td>1 each for left and right</td>
</tr>
<tr>
<td>⑧</td>
<td>Bell</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>⑨</td>
<td>Front reflector</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>⑩</td>
<td>Rear reflector</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>⑪</td>
<td>Optional stay</td>
<td>2</td>
<td>Used when installing the mudguard (optional)</td>
</tr>
<tr>
<td>⑫</td>
<td>Owner's manual</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

#### Part box 3 details

<table>
<thead>
<tr>
<th>No.</th>
<th>Part names</th>
<th>Q’ty</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>⑬</td>
<td>Battery charger</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

* The form of the package is subject to change without notice.
INCLUDED PARTS

1. Bicycle wheel
2. Box
3. Box
4. Box
5. Saddle
6. Pedal and crank arm
7. Pedal
8. Handlebar grip
9. Handlebar
10. Mirror
11. Reflectors
12. Battery pack
13. Charger
TIP
- Charge the battery pack following the instructions in the owner’s manual before starting installation.
- The letters inside the parts list boxes in the assembly procedures indicate the following:
  A: Part in part box 1
  B: Part in part box 2

1. Installing the front wheel and fork end
   Remove the spacer (b) from the front disc caliper (a).
   Give the removed spacer (b) to the customer, explaining how it is used.

   Align the holes in the front wheel (1) with the holes in the fork end and install the front wheel (1).
   Install it in such a way that the disc rotor (c) does not touch the disc pad.
   Install the front axle (2) to the fork end holes from the left side of the bicycle.

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<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>1</td>
<td>Front wheel</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Front axle</td>
<td>1</td>
</tr>
</tbody>
</table>
INSTALLING THE INCLUDED PARTS

Move the lever \( d \) of the front axle \( 2 \) to “OPEN” facing the notch \( e \).
With the lever \( d \) caught in the notch \( e \), turn and tighten until there is a little resistance in the lever.

Free the lever \( d \).
Determine the position to secure the lever \( d \) and fasten it at “CLOSE”.

**WARNING**
- Position the lever when it cannot touch obstacles while the bicycle is moving. If not, the lever could be unlocked unexpectedly, causing the front wheel to come off, resulting in an accident with severe injury or death.
- Fasten the lever \( d \) at position where the tip does not touch other parts when the lever \( d \) is lowered.
- Fasten the lever \( d \) facing backward from the direction of travel in such a way that it cannot easily touch obstacles that might be encountered while riding.

**TIP**
If the lever \( d \) of the front axle \( 2 \) is too hard and cannot be lowered, or if it is too loose and cannot be lowered for it to be locked, turn the lever \( d \) again to loosen or tighten it, adjusting so that it can be fastened securely.

2. Installing the handlebar stem
Position the handlebar stem \( a \) in a straight line with the front wheel. Tighten the bolts \( b \) and \( c \), in that order, to the specified torques.
3. Installing the handlebar

Install the handlebar \( a \) so that the length of the left and right sides are the same, and then tighten the 4 bolts \( c \) of the handlebar holder \( b \) to the specified torque.

**NOTICE**

The handlebar \( a \) should not touch the frame when it is turned fully to the left or right.

**TIP**

As shown, install the handlebar \( a \) at an angle where the central axis \( d \) of the handlebar stem is parallel to the upper surface \( e \) of the lever bracket.

**TIP**

- Tighten bolts \( c \) evenly in stages, in the order shown in the illustration.
- Tighten in such a way that the gaps \( f \) above and below the handlebar holder \( b \) are equal.
4. Adjusting the display unit position
Adjust the position of the bracket (a) and display unit (b) as shown, and then tighten the bolts (c) and (d) to each specified torque.

**TIP**
- Adjust the bracket (a) so that the central axis (e) is parallel to the ground.
- Adjust the display unit (b) so that it is at a 30° angle as shown.

5. Installing the front reflector
Install the front reflector (1) at the position (a) shown in the illustration, then tighten it together with the stay (2) and screw (3).

<table>
<thead>
<tr>
<th>1</th>
<th>Front reflector</th>
<th>1</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Stay</td>
<td>1</td>
<td>B</td>
</tr>
<tr>
<td>3</td>
<td>Screw</td>
<td>1</td>
<td>B</td>
</tr>
</tbody>
</table>

**TIP**
Install the front reflector (1) while adjusting it so that it faces to the front and making sure that the wires, etc. do not contact the front reflector.
6. Installing the bell
Install the bell ① in the position ③ shown, then tighten it with the screw ②.
Adjust the clapper ⑤ so that it is located at the position shown.

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<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>①</td>
<td>Bell</td>
<td>1</td>
</tr>
<tr>
<td>②</td>
<td>Screw</td>
<td>1</td>
</tr>
</tbody>
</table>

7. Routing the wires

**WARNING**
Be sure to route the wires as shown in the illustration. If not, they could interfere with handlebar operation which could cause loss of control.

Confirm that hoses and wires are routed in order starting from front to back:
- Dropper seat wire ①
- Rear brake hose ②
- Shift wire ③
- Front brake hose ④
- Display unit lead ⑤

Make sure that the rear brake hose ② and shift wire ③ are fastened with the wire clip ⑥ at the position shown.

Make sure that the front brake hose ④ and display unit lead ⑤ are fastened with the plastic locking tie ⑦ at the position shown.

**TIP**
- The routing order of the dropper seat wire ①, rear brake hose ② and shift wire ③ does not matter.
- The routing order of the front brake hose ④ and display unit lead ⑤ does not matter.
Make sure that the display unit lead 5 is routed as shown.

Fasten the dropper seat wire 1, rear brake hose 2 and shift wire 3 with the plastic locking tie 8 and then make sure that they are routed as shown.
Make sure that the front brake hose 4 is routed as shown.
Make sure that the rear brake hose ②, shift wire ③, and speed sensor lead ⑨ are routed as shown.

8. Installing the saddle
For the PC70WRL only, install the seat post ① to the frame before installing the saddle ①. Pinch the rail of the saddle ① with the saddle clamps ⑩ and ⑪, and then tighten the seat post ①, bolts ⑩, and nuts ⑪ to the specified torque.
Adjust the seat post ① height, and then tighten the seat pin ① to the specified torque.

TIP

- Be careful that the dropper seat wire is not too tensioned or too slack when installing the seat post ① or adjusting its height.
- Do not overtighten the seat pin ①. Otherwise, it could cause the dropper seat not to operate smoothly.
9. Installing the rear reflector
   Install the rear reflector ①, band ②, screw ③, and nut ④ as shown, and then tighten them together to the specified torque. Secure them to the frame with the band ②.

<table>
<thead>
<tr>
<th align="center">① Rear reflector</th>
<th align="center">② Band</th>
<th align="center">③ Screw</th>
<th align="center">④ Nut</th>
</tr>
</thead>
<tbody>
<tr>
<td align="center">1 B</td>
<td align="center">1 B</td>
<td align="center">1 B</td>
<td align="center">1 B</td>
</tr>
</tbody>
</table>

   **TIP**
   - Adjust the rear reflector ① so that it is facing straight backward, then tighten it.
   - When assembling the rear reflector ① to the frame, adjust the length by cutting the adjustment pad inside the band to fit the frame.

10. Installing the pedals
    Install the pedals ① to the crank ⑥, then tighten to the specified torque.

<table>
<thead>
<tr>
<th align="center">① Pedals (left and right)</th>
<th align="center">⑥ each</th>
</tr>
</thead>
<tbody>
<tr>
<td align="center">1 B</td>
<td align="center"></td>
</tr>
</tbody>
</table>

   **TIP**
   - Right-hand screw (marked “R”) for right pedal
   - Left-hand screw (marked “L”) for left pedal

11. Checking the operation of the speed sensor
    A. Press the power button ③ to turn on the power.
    B. Long-push the power button ③ for approximately 10 seconds within 30 seconds after power-on, make sure that the display changes to the self-diagnosis display ⑥, and then release the power button ③.
    C. Change the option ② by using either the assist up button ④ or the assist down button ⑦ until “-1-” is displayed.
    D. Long-push the assist down button ⑦ for at least 2 seconds, and then release the button to confirm.
E. Make sure that the speedometer ① is displayed and that the mode has been switched to the speed sensor confirmation mode.

F. The number displayed on the speedometer ① counts up when the rear wheel is lifted off the ground and turned. The number increases by 1 for 1 turn. Check that the position of the wheel at which the display counts up is stable.

G. After checking the operation, press the power button ② to quit.

**TIP**

Turn the rear wheel at least 3 revolutions and check that the display reads “3”.

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12. Adjusting the opening of the front and rear brake levers

Before adjusting the opening of the brake levers, grip the brake levers approximately 10 times to pump them.

Turn the adjusting screw ① to adjust the opening of the tip of the brake lever ② from the tip of the grip.

**NOTICE**

After adjusting the brake lever opening, check that the rotation of the front and rear wheels is not heavy.

**TIP**

Adjust to a position at which it is easy for the customer to operate the front and rear brake levers and within the range of play of the brake levers.

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13. Installing the optional stay

When installing the mudguard (optional), if the stay of the mudguard does not reach the hole ③ in the rear frame, use the optional stay ①.

Install the optional stay ① into the hole ④ in the rear frame as shown, and then tighten the bolt ② to the specified torque.

Install the mudguard (optional) into the hole ⑤ in the optional stay ①.

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<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>①</td>
<td>Optional stay</td>
<td>2</td>
</tr>
<tr>
<td>②</td>
<td>Bolt</td>
<td>2</td>
</tr>
</tbody>
</table>
After completing the installation, inspect the items as follows and check that there are no problems before delivering the bicycle. Adjust controls and saddle height to the customer’s satisfaction according to this manual.

- Handlebar orientation, height, angle, and tightening
  - Installing the head cap to the handlebar post: 2.5 N·m (0.25 kgf·m, 1.8 lb·ft)
  - Installing the handlebar stem to the handlebar post: 6 N·m (0.6 kgf·m, 4.4 lb·ft)
  - Installing the handlebar to the handlebar holder: 6 N·m (0.6 kgf·m, 4.4 lb·ft)
- Saddle orientation, height, angle, and tightening
  - Installing the saddle: 8 N·m (0.8 kgf·m, 5.9 lb·ft)
  - Tightening the seat pin: 3.0 N·m (0.30 kgf·m, 2.2 lb·ft)
  * Check that the saddle is firmly fastened.
- Various fittings adjusted to the customer’s riding posture
  * Including brake lever angle, fork suspension air pressure, etc.
- Inspection of the wheels, hubs, and spokes
- Tightening of the peddals: 40 N·m (4.0 kgf·m, 30 lb·ft)
- Tightening of the screws of each part
  - Installing the bracket: 3.8 N·m (0.38 kgf·m, 2.8 lb·ft)
  - Installing the display unit: 0.8 N·m (0.08 kgf·m, 0.59 lb·ft)
  - Installing the front reflector: 1.5 N·m (0.15 kgf·m, 1.1 lb·ft)
  - Installing the bell: 1.5 N·m (0.15 kgf·m, 1.1 lb·ft)
  - Installing the rear reflector: 1.5 N·m (0.15 kgf·m, 1.1 lb·ft)
  - Installing the optional stay: 4.0 N·m (0.40 kgf·m, 3.0 lb·ft)
- Brake performance
- Shift changing operation
- Looseness of the chain
- Bell sound
- Battery pack locking operation
  * Check that the battery pack locks securely.
- Check of battery pack and battery charger operation
- Make sure that charging of the battery pack is complete
- Operation of the meter, switches, and drive unit
- Installation state of the reflectors
- Maximum tire air pressure
  - Front tire: 410 kPa (4.1 kgf/cm², 60 psi)
  - Rear tire: 410 kPa (4.1 kgf/cm², 60 psi)