
1. SAFETY INSTRUCTIONS

1-1. SAFETY INSTRUCTIONS FOR SERVICE ENGINEERS

- ▶ Be sure to observe the following instructions to operate the product correctly and safely to prevent possible accidents and hazards while servicing.
- ▶ Two types of safety symbols, Warning and Caution, are used in the safety instructions.



WARNING

Hazards or unsafe practices that may result in severe personal injury or death.



CAUTION

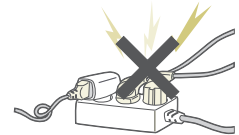
Hazards or unsafe practices that may result in minor personal injury or property damage.



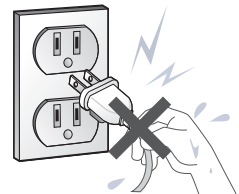
WARNING

BEFORE SERVICING

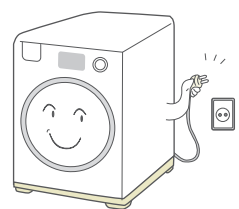
- (When servicing electrical parts or harnesses) Make sure to disconnect the power plug before servicing.
 - ✓ Failing to do so may result in a risk of electric shock.
- Do not allow consumers to connect several appliances to a single power outlet at the same time.
 - ✓ There is a risk of fire due to overheating.



- When removing the power cord, make sure to hold the power plug when pulling the plug from the outlet.
 - ✓ Failing to do so may damage the plug and result in fire or electric shock.



- When the washing machine is not being used, make sure to disconnect the power plug from the power outlet.
 - ✓ Failing to do so may result in electric shock or fire due to lightning.



- Do not place or use gasoline, thinners, alcohol, or other flammable or explosive substances near the washing machine.
 - ✓ There is a risk of explosion and fire caused from electric sparks.

**WARNING****WHILE SERVICING**

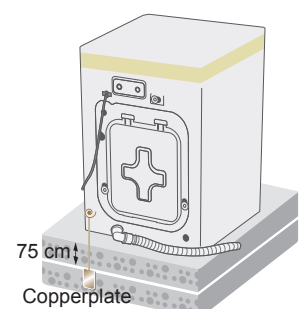
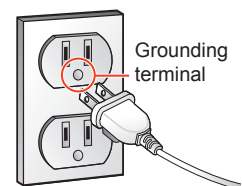
- Check if the power plug and outlet are damaged, flattened, cut or otherwise degraded.
 - ✓ If faulty, replace it immediately.
 - Failing to do so may result in electric shock or fire.
 - Completely remove any dust or foreign material from the housing, wiring and connection parts.
 - ✓ This will prevent a risk of fire due to tracking and electrical hazard..
 - When connecting wires, make sure to connect them using the relevant connectors and check that they are completely properly.
 - ✓ If tape is used instead of the connectors, it may cause fire due to tracking.
 - Make sure to discharge the PBA power terminals before starting the service.
 - ✓ Failing to do so may result in a high voltage electric shock.
 - When replacing the heater, make sure to fasten the nut after ensuring that it is inserted into the bracket-heater.
 - ✓ If not inserted into the bracket-heater, it touches the drum and causes noise and electric leakage.
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**WARNING****AFTER SERVICING**

- Check the wiring.
 - ✓ Ensure that no wire touches a rotating part or a sharpened part of the electrical harness.
 - Check for any water leakage.
 - ✓ Perform a test run for the washing machine using the standard course and check whether there is any water leakage through the floor section or the pipes.
 - Do not allow consumers to repair or service any part of the washing machine themselves.
 - ✓ This may result in personal injury and shorten the product lifetime.
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- If it seems that grounding is needed due to water or moisture, make sure to run grounding wires.
(Check the grounding of the power outlet, and additionally ground it to a metallic water pipe.)
 - ✓ Failing to do so may result in electric shock due to electric leakage.
- [Running a grounding wire]
- Twist a grounding wire (copper wire) two or three times around the tap.
 - If you connect the grounding wire to a copperplate, bury it 75 cm under the earth in a place with a lot of moisture.
- ⚠ Do not connect the grounding wire to a gas pipe, plastic water pipe or telephone wire. There is a risk of electric shock or explosion.

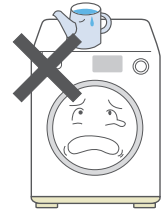


**CAUTION****BEFORE SERVICING**

- Do not sprinkle water onto the washing machine directly when cleaning it.
 - ✓ This may result in electric shock or fire, and may shorten the product lifetime.



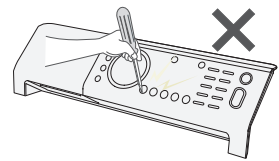
- Do not place any containers with water on the washing machine.
 - ✓ If the water is spilled, it may result in electric shock or fire. This will also shorten the product lifetime.



- Do not install the washing machine in a location exposed to snow or rain.
 - ✓ This may result in electric shock or fire, and shorten the product lifetime.



- Do not press a control button using a sharp tool or object.
 - ✓ This may result in electric shock or damage to the product.

**CAUTION****WHILE SERVICING**

- When wiring a harness, make sure to seal it completely so no liquid can enter.
 - ✓ Make sure that they do not break when force is exerted.
 - Check if there is any residue that shows that liquid entered the electric parts or harnesses.
 - ✓ If any liquid has entered into a part, replace it or completely remove any remaining moisture from it.
 - If you need to place the washing machine on its back for servicing purposes, place a support(s) on the floor and lay it down carefully so its side is on the floor.
 - ✓ Do not lay it down on its front. This may result in the inside tub damaging parts.
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**CAUTION****AFTER SERVICING**

- Check the assembled status of the parts.
 - ✓ Now is a good time to inspect your work. Review all connections and wiring, including mounting hardware.
- Check the insulation resistance.
 - ✓ Disconnect the power cord from the power outlet and measure the insulation resistance between the power plug and the grounding wire of the washing machine. The value must be greater than 10MΩ when measured with a 500V DC Megger
- Check whether the washing machine is level the floor with respect to the original position of the washing machine prior to service.
By doing this now will reduce for the need of customer dissatisfaction and redo call.
 - ✓ Vibrations can shorten the lifetime of the product.

