The following instructions are intended to assist the user in the installation of the Kubota Water Heater Kit. It is recommended the following procedure be performed by a Multiquip Authorized Service Center (ASC) or by a Multiquip Field Service Manager. Generator or engine failures caused by improper field installation are not covered under a Multiquip Limited Warranty. Please read all assembly instructions before installing the kit.

**REQUIRED TOOLS**
- Hammer
- Ratchet W/ Extension
- 1 inch socket
- 6-8 inch hole/hammer punch
- Channel Lock Pliers
- Tape
- Paint (High Temperature Resistant)

**PARTS**
Verify that all parts are accounted for. See Figure 1 and Table 1.

![Figure 1. Kubota Water Heater Installation Kit](image)

<table>
<thead>
<tr>
<th>Item No</th>
<th>Part No.</th>
<th>Description</th>
<th>QTY.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>13543</td>
<td>Kit, Kubota Water Heater, Multi-Models</td>
<td>1</td>
<td>Includes Items 2-3</td>
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<td>2</td>
<td>14062</td>
<td>Heater, 400W, 115VAC, Kubota Block</td>
<td>1</td>
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<td>3</td>
<td>14254</td>
<td>Instructions, Kubota Water Heater</td>
<td>1</td>
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<tr>
<td>4</td>
<td>777055</td>
<td>Carton, 6” x 6” x 6”</td>
<td>1</td>
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</tbody>
</table>

**WORK SAFELY!**

Only a qualified service technician with proper training should perform this installation. Follow all shop safety rules when performing this installation.

**PREPARATION**

1. Make sure generator is turned off and engine is cool.
2. Place the generator in an area free of dirt and debris. Make sure it is on secure level ground. If trailer mounted, place chock blocks underneath each wheel to prevent the generator from rolling.
3. Open the right side cabinet panel to gain access to the engine fuel supply and battery location.
BATTERY CABLE DISCONNECTION

1. Disconnect the negative cable (BLACK) from the negative terminal on the battery. See Figure 2.

HEATER ELEMENT PREPARATION

1. Locate the Kubota Water Heater element and cordset (Figure 3) in the kit.

   ![Figure 3. Heater Element and Cordset](image)

   HEATER ELEMENT
   HEATER ELEMENT CORDSET

   NOTICE

   DO NOT remove the masking tape from the threaded end of the heater element until the heater element is ready for cordset installation.

2. Thoroughly clean both ends of the heater element and cover each side with masking tape as shown in Figure 4. Make sure the heater element body is exposed.

   ![Figure 4. Tape Masked Heater Element](image)

   HEATER ELEMENT MASKED END
   HEATER ELEMENT BODY
   HEATER ELEMENT MASKED END

3. Paint the heater element body with a high temperature resistant paint to protect the heater element against corrosion. Allow the paint to fully dry.

4. Once the paint has dried on the heater element body, remove the masking tape from the heater side (non-threaded) of the heater element.
COOLANT DRAINING

1. Locate and place a clean container below the coolant drain port (Figure 5) to catch drained coolant. The collected coolant will be reused later. Make sure no foreign particulates or contaminates are present in the drained coolant.

2. Using an open-ended wrench, remove the coolant drain plug and drain approximately 1/2-3/4 gallons of coolant (Figure 5) from the coolant reservoir.

   NOTICE
   This will lower the coolant level below the base of the cylinder head.

FREEZE PLUG REMOVAL

1. Before accessing freeze plug on the engine block, make sure to cover the generator (Figure 6) and other nearby components with an absorbent material to catch any excess coolant.

2. Locate the freeze plug (Figure 7) on the engine block.

3. Using a 6"-8" punch and hammer, tap one edge of the freeze plug (Figure 8) until it becomes loose or offset from its original set placement.

4. Using channel locks, remove the freeze plug from the engine block as shown in Figure 9.
ENGINE WATER HEATER ELEMENT INSTALLATION

1. Clean the freeze plug corehole of any debris or contaminants.
2. Align and insert the heater element's heater side (non-tape masked) into the freeze plug corehole as shown in Figure 10.

3. Locate the 1" socket extension in the kit and place it over the tape masked threaded end of the heater element to protect threads as shown in Figure 11.
4. Using a hammer, tap the 1" socket extension and heater element into the engine block freeze plug corehole (Figure 11) until the heater element is flush with the engine block surface.

5. Remove the 1" socket extension and masking tape from the threaded end of the heater element.
6. Locate the heater element cordset in the kit.
7. Tighten and secure the heater element cordset (Figure 12) to the threaded end of the heater element.

POST-INSTALLATION TESTING

1. Remove the coolant port access panel on top of the generator (Figure 13) and refill the coolant reservoir with the 1/2-3/4 gallons of coolant previously drained.
2. Reconnect the negative cable (BLACK) to the negative terminal on the battery.
3. Reinstall the coolant access panel and run the engine for approximately 10-15 minutes to ensure engine thermostat functionality.
4. Turn the engine off and let cool. Check the unit for any leaks around the water heater. If leaks are present, repair them immediately and check the heater element for misalignment in the freeze plug corehole.
5. Inspect the coolant level for a final time before using the generator on a work area.

NOTICE
Make sure the heater element is tapped in straight. Unaligned and skewed heater element installation may result in engine and generator damage and coolant leakage in the unit.

The thermostat will open to allow complete coolant circulation from the radiator to the engine block.
HERE’S HOW TO GET HELP
PLEASE HAVE THE MODEL AND SERIAL NUMBER ON-HAND WHEN CALLING

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