

# Communication Module Installation Instructions

## For Rheem, Ruud, and Richmond Water Heaters

Follow this step-by-step guide to connect your Rheem, Ruud, or Richmond water heater to WaterSaver.

### Step One: Gather Required Equipment

- Communication module (UCM) – provided by WaterSaver
- Screwdrivers (Phillips and flathead)

### Step Two: Turn Off Power to Your Water Heater

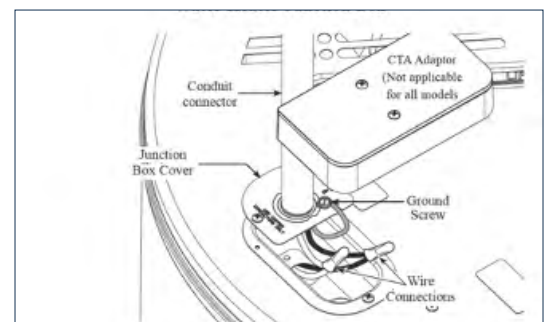
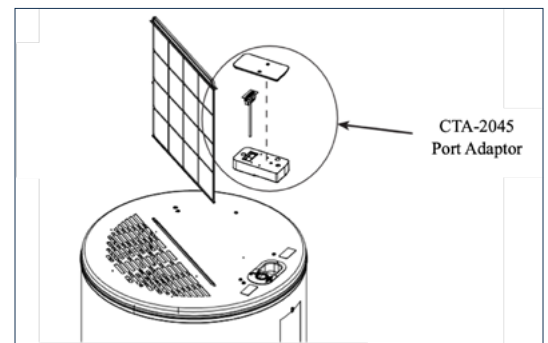
**WARNING:** Before continuing with the UCM connection, turn off power to your water heater at the circuit breaker or fuse box by flipping the breaker supplying power to your water heater to the OFF position or by removing the fuse. **WORKING ON AN ENERGIZED CIRCUIT CAN RESULT IN SEVERE INJURY OR DEATH FROM ELECTRICAL SHOCK. TURN POWER OFF BEFORE PERFORMING THIS INSTALLATION. CHECK THE WIRE WITH A NON-CONTACT CIRCUIT TESTER TO MAKE SURE POWER IS OFF.**

### Step Three: Wire the UCM Port Adaptor (If Applicable)

Required for some units manufactured before September 2023.

For water heaters manufactured before September 2023, the port adaptor (also called a CTA-2045 port adaptor) was not factory-wired. It may have been wired at the time of installation. If it is not wired, you or a qualified electrician will have to complete this step.

- Locate the junction box cover and port adaptor on the top of the water heater. Unscrew to remove.
- Use an appropriately sized wire nut to connect the Red wire of the module box to the Red wire of the water heater connection.
- Use an appropriately sized wire nut to connect the Black wire of the module box to the Black wire of the water heater connection.
- Use the ground screw to connect the green wire of the module box to ground.
- Replace the junction box cover and port adaptor at the top of the water heater.



## Step Four: Open the UCM Port



- Located on top of the unit
- Unscrew to remove cover

## Step Five: Prepare and Install the UCM

- Prepare the UCM as described in the provided UCM Manual
- Insert the UCM into the port by aligning the UCM connectors with the connectors in the port
- Push in until the bottom face of the UCM touches the flat face of the receiver. Make sure it is securely seated.
- Use screws to secure the UCM to the receiver



## Step Six: Restore Power to Your Water Heater

- Turn on the power to your water heater at the circuit breaker or fuse box by flipping the breaker supplying power to your water heater to the ON position or by replacing the fuse.
- Once the water heater has power, press the “ENTER” button on the water heater control panel to confirm that the UCM is connected.

## Step Seven: Confirm Successful UCM Connection

- Once connected, the UCM LED will blink during startup
- Within a few minutes, the UCM LED should turn solid blue, indicating connection
- If you have trouble with the connection, refer to the troubleshooting steps in the UCM Installation Guide or contact our program for support at [support@water-saver.com](mailto:support@water-saver.com)

## Step Eight: Connect Your Water Heater to WatterSaver

Once you’ve completed these steps, please email [support@water-saver.com](mailto:support@water-saver.com) to let the support team know that your UCM is installed and that you are ready to participate in WatterSaver.