# NURO Instructions

> ## ⚠️ **DANGER**
>
> - Water temperature over 125°F can cause severe burns instantly or death from scalds.
> - Children, disabled and elderly are at highest risk of being scalded.
> - See instruction manual before setting temperature at water heater.
> - Feel water before bathing or showering.
> - If this appliance is used to produce water that could scald if too hot, such as domestic hot water use, adjust the outlet control (limit) or use temperature limiting valves to obtain a maximum water temperature of 120°F.

When the appliance is powered on, the NURO will display a startup screen which will timeout and then display **Home Screen** as shown.

The **Home Screen** shows a snapshot of appliance current operating conditions:

Pump Line Tank Temperature
DHW Tank Pump State
DHW Pump State
Firing Rate
DHW Setpoint (Temperature requested)
DHW Process Value (Temperature out to system)
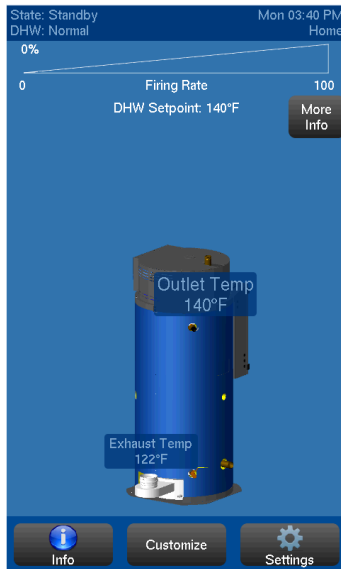
Press **"Settings"** in lower right corner.

This is **"Settings"** screen where **Fault History**, **User Settings**, and **Network Connections** can be found.

Press **"All Parameters"**

User Settings

Network Connection Wizard

Fault History

All Parameters

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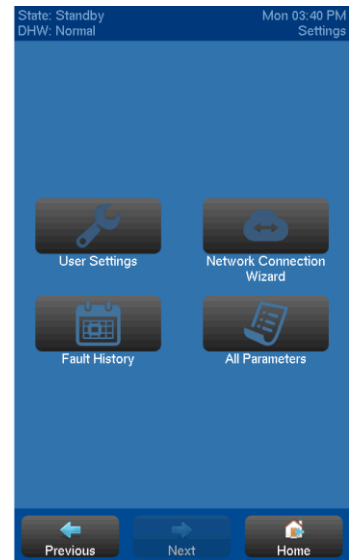
Shown right is **"All Parameters"** screen where **DHW Settings**, **OEM Settings**, and **Water Heater Settings** can be found.

DHW Settings   OEM Settings

Water Heater Settings   Verification

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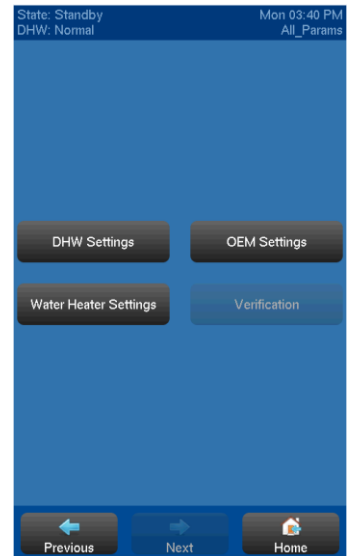
Shown below **"Water Heater Settings"** and **"DHW Settings"** screens.

Water Heater Settings

State: Stopping   Thu 09:50 AM
DHW: Waiting for Boiler to Start   APL_Params
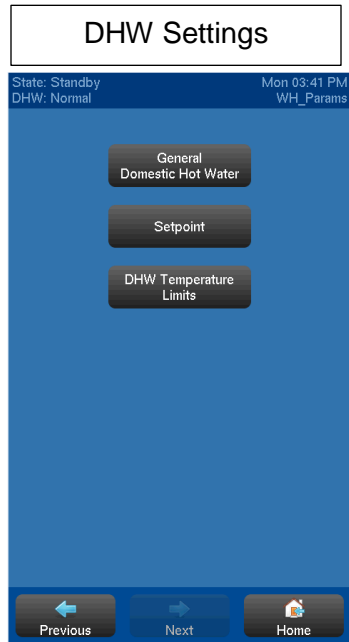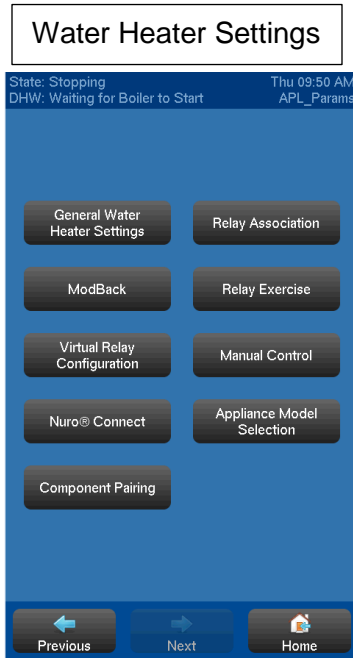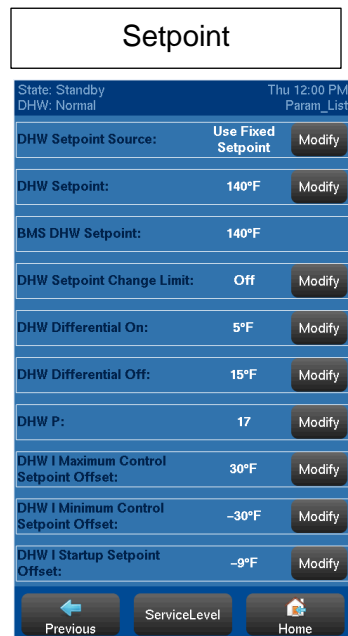
General Water Heater Settings	Relay Association
ModBack	Relay Exercise
Virtual Relay Configuration	Manual Control
Nuro® Connect	Appliance Model Selection
Component Pairing	

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DHW Settings

State: Standby   Mon 03:41 PM
DHW: Normal   WH_Params

General Domestic Hot Water

Setpoint

DHW Temperature Limits

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Shown below are **General Domestic Hot Water** and **Setpoint** screens.

General Domestic Hot Water

State: Standby   Mon 03:41 PM
DHW: Normal   Param_List

DHW Control:	On
DHW Demand Source:	Use Boiler Demand
BMS DHW Demand:	Disabled
DHW Max Fan Speed:	4260 rpm
DHW Pump Control:	On Demand
DHW Pump Pre time:	10 sec
DHW Pump Post time:	20 sec
DHW Low Fire Hold Time:	0 sec

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Setpoint

State: Standby   Thu 12:00 PM
DHW: Normal   Param_List

DHW Setpoint Source:	Use Fixed Setpoint	Modify
DHW Setpoint:	140°F	Modify
BMS DHW Setpoint:	140°F	
DHW Setpoint Change Limit:	Off	Modify
DHW Differential On:	5°F	Modify
DHW Differential Off:	15°F	Modify
DHW P:	17	Modify
DHW I Maximum Control Setpoint Offset:	30°F	Modify
DHW I Minimum Control Setpoint Offset:	–30°F	Modify
DHW I Startup Setpoint Offset:	–9°F	Modify

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On the **Setpoint** screen, the setpoint is adjusted with the **DHW Setpoint** parameter.
The **DHW Differential On** sets the start temperature and the **DHW Differential Off** sets the stop temperature.

See right for **DHW Temperature Limits** Screen, which allows users to adjust pump on/off time as well as low fire hold time.

In order to Modify any settings, contact Patterson-Kelley for Service Level Passcode

| State: Standby | Mon 03:41 PM |
| DHW: Normal | Param_List |

DHW Control:	On	Modify
DHW Demand Source:	Use Boiler Demand	Modify
BMS DHW Demand:	Disabled	
DHW Max Fan Speed:	4260 rpm	Modify
DHW Pump Control:	On Demand	Modify
DHW Pump Pre time:	10 sec	Modify
DHW Pump Post time:	20 sec	Modify
DHW Low Fire Hold Time:	0 sec	Modify

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