



Instructions for X-40™ Propane Water Heater & Hot Shower



#5146

X-40 On-Demand Water Heater & Instant Hot Shower

Read Directions Before Operating
Follow Directions at all Times

Please read and follow these directions.

Congratulations! You have just purchased the BEST Instant water heater and portable hot shower available. To ensure safety and to get the most performance from your new portable hot shower system, please read and follow these directions. These directions are for the X-40 series and may reference options not found on your model. Please register your warranty within 10 days of purchase at www.zodi.com.

If you experience a challenge with your X-40™ DO NOT return it to the store.

Call Zodi TOLL FREE at 800-589-2849 or email to help@zodi.com

Most problems can be fixed with a phone call.



Tips for Best Performance:

Low Water Pressure: Low water pressure is usually due to the power supply delivering less than 12 volts. Other common low water pressure problems include kinked hoses, vapor locked hoses, plugged pump or the shower head being too high above pump.

12 Volt Power: Check that pump is connected to a good 12 volt power source (battery or generator). Voltage below 12 volts will cause the water flow to be reduced.

Kinked Hoses: Check that pump hose and shower hose are not kinked. Squeeze kinks from all hoses before use. Do not use system with kinked hoses.

Vapor Lock: If pump is working, the hoses are not kinked, and water is still not spraying from the shower head, your system is vapor locked. Vapor lock can be released by applying suction to the shower head while pump is on and submerged in water (Heater must be off).

Plugged Pump: Occasionally the pump will get plugged with debris in the water - remove pump cap and clean out input area.

Shower Head Height: The shower hose is 16 feet long for convenience around camp. For best water flow keep shower head 6 feet or less above pump. To increase water flow reduce elevation between showerhead and pump.

Gear Bag as Water Container: If using padded gear bag as a water container, it is necessary to first position plastic bag inside gear bag to hold water. Position pump inside plastic bag with suction end of pump away from plastic bag to prevent pump from attracting loose plastic bag around suction end of pump, which may restrict water flow.

Low Water Temperature: Several factors contribute to cool water temperatures. The most common is a low or empty propane tank. For best performance use a full propane tank stored at room temperature. High water flow or wind also reduce water temperatures.

Check Propane Source: The X-40 is designed to operate with a full propane tank stored at room temperature. If propane source is low or if the propane temperature is very cold, the X-40 heater will not heat as hot as normal and it may be needed to recirculate water.

Wind & Altitude: The X-40 is designed to operate in low wind conditions and below 5,000 feet. For best performance, safely shield X-40 from wind. Above 5,000 the X-40 may not heat as hot as normal and it may be needed to recirculate water.

Re-circulate Water: The X-40 is able to instantly provide hot water regardless of how cold the water source is, but sometimes recirculating the water is helpful. To recirculate water, place the showerhead and pump in a water container with 5 - 20 gallons of water. Turn on the pump and then the heater. In just a few minutes the water spraying from the shower head will be a comfortable temperature. By recirculating the water you are able to still enjoy hot water with a cold or near empty propane tank or at higher altitudes. Do not heat water over 100° or injury may result. Follow directions found on page 4.

Condensation: The water dripping from the bottom of the Hot Tap during use is normal and will occur every time heater is on.

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WARNINGS & CAUTIONS

- 1 Water must be flowing from X-40 showerhead before igniting propane burner.
- 2 Water must always be flowing from X-40 showerhead when propane burner is on.
- 3 If water flow drops or water temperature increases, immediately point showerhead away from body and safely turn off heater until water pressure is regained. CAUTION - water may be hot when water pressure is regained - keep clear of showerhead until desired water temperature is obtained.
- 4 Do not heat water over 100°F. System is not designed to heat water for human consumption.
- 5 Do not use indoors. The X-40 heater, like all propane systems emits deadly carbon monoxide fumes when operating. Designed for outdoor use only. Improper use can result in injury or death.
- 6 Allow X-40 heater to completely cool before handling or storing & transport. Turn off gas valve on propane tank & disconnect regulator from propane tank between uses.
- 7 For best performance, shield system from wind and use propane tanks stored at room temperature.
- 8 In cold climates remove pump from water source and purge hoses with air after each use. (To prevent damage to heating coil from freezing.)
- 9 Do not heat in confined areas. Heat only outside in well ventilated areas. Do not operate near any combustible sources. Position propane tank clear of all heat sources. Do not store items on top of X-40. Keep clear of top and bottom covers and housing during ignition and operation. Housing is HOT, do not touch.
- 10 Adjust water temperature with gas control knob located on front of X-40 near bottom of panel. If water is too hot reduce gas flow using propane valve. If water is not hot enough, increase gas flow using propane valve on front of X-40 or recycle water as defined on page 2. If using optional Garden Hose Adapter adjust water flow to 1 gallon or less per minute. Water flows above 1 gallon per minute may result in lower than desired water temperatures.
- 11 If ignitor fails replace AA battery (tip end inserts first). If battery fails in field, place lit match through manual ignition hole on back of system then turn on gas valve.
- 12 If using padded gear bag as a water container, it is necessary to first position plastic bag inside gear bag to hold water. Position pump inside plastic bag with suction end of pump away from plastic bag to prevent pump from attracting loose plastic bag around suction end of pump, which may restrict water flow.

Zodi options and upgrades for your X-40 Shower... see now at www.zodi.com

Zodi Hut

Enjoy privacy anywhere with this self supporting shelter. Extra big almost 4 feet per side.



12 Volt Pump

Get a back-up 12 volt pump. Great for outfitters & cabins. Works with all Zodi heaters.



Camp Sink

Enjoy a collapsible camp sink on your next adventure. Oversized to soak pans and plates.



Zodi Shower Pole

Enjoy hands free showering. Adjustable height. Works with all Zodi showers and Huts.



Garden Hose Adapter

Connect your Hot Tap Shower to any garden hose without using your pump or batteries.



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Instructions for Hot Tap™ X-40

SET-UP

1. Select a clear flat area outdoors in well ventilated area away from flammable material. Remove heater, hoses & pump from gear bag.
2. Extend support legs by depressing button in leg bracket and twist legs downward until secure. Repeat for all 4 legs.
3. Securely connect propane regulator to 5 gallon propane tank. Securely position propane tank away from heater. Leave valve on propane tank in "OFF" position. Check that Propane Valve on front of X-40 is also in the "OFF" position (Knob points to left and is locked).
4. Uncoil shower hose and secure showerhead in desired location. Check that shower hose and pump hose are free of kinks. Attach pump to hose.
5. Submerge 12 volt water pump in water. Connect pump to 12 volt power source. Water will flow from the showerhead.
6. Test instant ignitor by pushing ignitor button - you should be able to hear ignitor sparking (DO NOT TURN ON GAS VALVE). If ignitor is not sparking, twist off ignitor cap and add AA battery - tip end inserts first, reattach cap and depress button.
7. If using padded gear bag as a water container, it is necessary to first position plastic bag inside gear bag to hold water. Position pump inside plastic bag with suction end of pump away from plastic bag to prevent pump from attracting loose plastic bag around suction end of pump, which may lower water flow.

HEATING

1. CAUTION - WATER MUST BE FLOWING FROM SHOWERHEAD BEFORE IGNITING AND AT ALL TIMES WHEN HEATER IS ON. Heat OUTDOORS only in well ventilated area. Turn propane tank gas valve to the "ON" or "OPEN" position. Ensure gas regulator is tight where connected to propane tank and is not leaking gas.
2. On the X-40 control panel "Push in" the Propane Valve & turn left (so knob points down) while pushing in and holding the ignitor button for 5 seconds. During ignition it is important to have ignitor depressed and sparking when gas valve is turned on. Keep hands, face, arms and clothing away from top and bottom of X-40 shower during and after ignition. Always keep top of X-40 heater clear at all times.
3. Feel for HOT air rising from top X-40 heater. If still cool, DO NOT RE-IGNITE. Shut off Propane Valve, wait 1 minute and repeat step 2. If system still fails to ignite, replace AA battery in ignitor by twisting ignitor cap off, (insert AA battery tip first) or place lit match in hole on side of heater while turning on gas valve.
4. During heating periods you will see water dripping from bottom of heater - this is condensation and will occur every time the heater is on. Leaking will not be present before igniting heater, but will occur when heater is on. Heater is NOT leaking, this drip is normal.
5. CAUTION - housing gets very hot when heating - keep clear at all times when heating. Do not operate unattended. Do NOT ignite or operate heater without water flow - water must be freely flowing from showerhead whenever heater is on.

SHOWERING

1. To change water temperature adjust Propane Valve knob on X-40 control panel. Changes will take about 30 seconds to be noticed at showerhead. Do NOT heat water over 100°F. The shower hose is extra long so you can stand a safe distance away from the X-40 heater during showering periods. Never have the shower hose so taut that it may kink or cause the X-40 heater to tip over. If water is not hot enough, turn gas valve to full on (knob points down) or recirculate water as described on page 2. If water is too hot reduce gas flow by turning gas valve knob slowly to left.
2. If water pressure suddenly drops, immediately turn showerhead away from body, safely turn off heater and allow X-40 heater to cool. Inspect the hoses for kinks and check pump. Ignite heater only AFTER proper water flow has been regained. Stay clear of initial water flow - it may be hot after re igniting.
3. Never turn off water flow when heater is on. Water must ALWAYS freely flow from showerhead when heater is on. Never use non factory showerhead or shower hoses. NEVER restrict water flow when heater is on. Do not modify or change showerhead or shower hose in any way.
4. X-40 is now ready for showering - for added convenience see accessories including the zodi shower shelter and shower pole at www.zodi.com.

SHUTDOWN

1. To shutdown, turn off propane gas valve on the X-40 control panel (point and locks in left position) and allow water to continue flowing for 30 seconds.
2. Allow system to cool before handling or storing.
3. After system has cooled position X-40 in covered area to protect system from rain or snow.
4. Drain water from hoses and heating coil.
5. Turn propane valve on top of gas cylinder to "OFF" and remove X-40 regulator from propane tank between uses.
6. In cold environments purge hoses and coil with air to prevent freeze damage.
7. Remove gas cylinder prior to transport.
8. Retract legs and coil hoses before placing in storage bag. Use caution as to not kink shower hose or pump hose when placing in storage bag. Prevent damage to storage bag and other gear by wrapping X-40 with towel and placing inside plastic bag before storing in gear bag.

CAUTION: Improper use can result in injury or death. Zodi LLC not responsible for improper use.

PLEASE REGISTER YOUR PRODUCT AT WWW.ZODI.COM WITHIN 10 DAYS OF PURCHASE OR WARRANTY MAY BE VOID.

800-589-2849

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