



## FAQs

### 1. How do you adjust an RV propane regulator?

Your Suburban LP gas regulator is pre-set in the factory for optimal performance. Any adjustments to the regulator should be made by a qualified service technician.

### 2. How do you connect a propane tank to an RV?

Your propane regulator is the exact item that does this job! The regulator, along with a set of hoses, delivers the gas from your tanks to your RV's appliances.

### 3. How do you know if a propane regulator is bad?

If your RV propane regulator is not working, or you hear a consistent hissing noise, it may be bad. Oftentimes, it's the internal diaphragm that breaks. A professional can confirm that your propane regulator has gone caput with a manometer. See Troubleshooting section below for additional symptoms and fixes.

### 4. How do you reset a propane regulator on an RV?

Resetting an RV propane regulator is simple. Just ensure all the propane-activated appliances in your RV are off, and then turn the pressure off from the propane tank entirely. Wait a few moments before slowly re-opening the lines and allowing them to become re-pressurized.

### 5. How do you install RV propane regulators?

The exact steps for installing your RV propane regulator will vary depending on the type of setup you have and where the propane tanks are stored on your RV. However, this service may be one of the more inexpensive ones to hire out to your local RV repair shop or propane fill-up station.

## TROUBLESHOOTING

### 1. How do I Know if my propane regulator is bad?

The propane regulator is a crucial component of every RV gas system and if it is not working properly, you will notice problems with your propane appliances. If your propane regulator is bad, there are several signs to look out for and a lot of them can be seen from a burner:

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Yellow Flames	The flame on your propane appliances should be a strong blue, but if you have lazy yellow flames after lighting one of the burners on your RV stove it indicates lack of enough pressure in your LP gas system.  If the flame is blue but makes a roaring sound and is very tall then you have too much pressure.	In such a case, you either have a leak or you need to replace the regulator since it's rare that an RV propane regulator needs adjusting.
Dark soot deposits	Propane is a clean gas, and it doesn't normally have dark smoke when it burns. A healthy propane flame shouldn't put off any soot. If you have started noticing dark black marks forming around your water heater or even your RV kitchen by the stove, then you either have something in the burner causing the soot or the flame is weak and isn't burning cleanly.	You could try adjusting the flame strength on a water heater to resolve the problem. But if the heavy soot persists then you may have a bad RV regulator.
Popping noises	If you hear popping noises when you turn off the flames on your RV stove burner, then your propane regulator could be having issues. This problem can also be because of a damaged burner.	If you hear the popping noises on one burner but not the others check the problematic burner. It may be dirty or askew.

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## 1. How do I Know if my propane regulator is bad? Cont.

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Leaking or venting regulator	If there is a propane smell coming from your propane regulator it may be damaged or not sealing properly.	Propane regulators have a vent located on the bottom to help the regulator breathe while being used. It is also works as a safety feature in case the pressure is getting too high. If there is propane coming from the vent, then you should have your regulator checked by a qualified technician or replace.
No propane flowing through the regulator	A common cause for propane not flowing through the regulator is a safety feature that is inside the regulator. The regulator engages a safety valve, shutting it off when it detects a high propane flow.	You can reset the propane regulator by turning off the propane tanks and making sure all your propane appliances are shut off. The regulator should reset after a few minutes. If resetting the propane regulator doesn't fix the problem your RV propane regulator is not functioning correctly and may need to be serviced or replaced.
Automatic changeover isn't working	If you have dual propane tanks and an automatic RV propane regulator and the regulator stopped switching over automatically or your automatic system starts to malfunction, first ensure the reserve tank valve is open for the automatic changeover regulator to operate correctly.	If this is not the issue you should have the regulator serviced by a qualified technician or replace.
Age	Age can also be a factor when looking to establish if your propane regulator is going bad. These regulators have a life of about 10 years and can start malfunctioning because they are too old.	If you are having issues with your RV propane regulator, you can try to reset the regulator to see if the problem resolves.

## 2. Propane auto changeover regulator not working

An automatic changeover regulator automatically switches from one gas tank to another, when one is empty if both tanks service valve is open. Automatic changeover regulator uses a visual indicator to show you when a gas tank is empty, and it has switched over to other gas tank.

If your propane auto changeover valve is not working, there could several possible causes for this. The issue may be that the outlet pressure isn't strong enough to recognize. It may be that the regulator is still sensing the propane in the tank and yet is not allowing it through because of the pressure lacking yet won't change over because there is still enough pressure to register.

To troubleshoot a propane auto changeover valve that is not working, follow these instructions:

SYMPTOM	SOLUTION
Auto changeover valve not working	<ol style="list-style-type: none"> <li>1. Check to make sure the active gas tank valve is turned on. The active gas tank is the one pointed to by the changeover regulator indicator.</li> <li>2. Check to see if either gas tanks have any gas left. If the tanks are empty, you need to have them filled.</li> <li>3. Check the excess flow valve in your propane tank. If the valve is opened too quickly it closes. To reset the valve, turn off the propane tank valve and turn off all the propane appliances. Wait 5-10 minutes and turn the propane valve on exceptionally slowly.</li> <li>4. If the problem persists after the above steps, the regulator needs to be serviced by a qualified technician or replaced.</li> </ol>

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### 3. RV Propane Not Flowing

SYMPTOM	SOLUTION
RV flow propane is not flowing	<ol style="list-style-type: none"> <li>1. Check to make sure the propane valve is ON. The gas attendant may have left the valve in a closed position when you went to fill your propane tank.</li> <li>2. Check the excess flow valve. This is a safety feature on propane tanks that is also known as a flow limiting device. The excess flow valve is designed to stop or reduce the flow of propane gas if there is a leak somewhere in the RV propane system. There are three main reasons that the excess flow valve could engage: <ul style="list-style-type: none"> <li>• If you open the propane tank valve too quickly the excess flow valve can engage since it detects propane leaving the tank too fast. To troubleshoot this situation, turn off the propane tank valve and turn off all the propane appliances. Wait 5-10 minutes and then turn the propane valve on exceptionally slowly. After you have a flow of propane, you must open the tank valve to the fully open position.</li> <li>• If you don't screw the propane hose fitting into the tank fitting properly, the valve will remain in the closed position, restricting propane flow. Just unscrew it, line it up correctly and screw it in again.</li> <li>• Check the propane regulator. The propane regulator may need serviced or replaced.</li> </ul> </li> </ol>

## HOW-TO

### 1. Regulator leak test:

You can test for leaks on a propane regulator by using a dish soap-water mixture. Prepare a solution of equal parts water to dish soap. Using a paintbrush, generously apply the soapy solution on the propane regulator. The mixture should cover the O-ring and the connecting point of the hose and valves.

Then with the burners in the "off" position, turn the propane valve on. If you see bubbles starting to form, that is where the leak is.

### 2. How to replace a propane regulator

If you are looking to replace an automatic 2-stage dual RV propane regulator, you will need the following items:

- A replacement propane regulator that is of the proper size and style for an RV
- Pigtails (optional)
- Gas line thread tape (yellow Teflon tape)
- 2 adjustable crescent wrenches

#### a. Turn off your propane tanks and empty the gas lines

Unhook them from the old regulator you are going to replace. Then go inside your RV and light one of the burners on your stove so that you empty the LP gas in the line. Wait until the flame is no longer burning, then turn off the gas on the stove so that it does not start leaking out when you turn the gas back on.

#### b. Remove the RV propane regulator

The regulator is attached to the main gas line that is connected to it on the bottom. To remove it, place a wrench on the nut of the main gas line and twist the regulator. Do not twist the main gas line. You can use another wrench on the lower part if you are having difficulties twisting the regulator. The lower part normally has a hexagonal shape for a wrench to be used.

If your RV propane regulator has plastic rain cover over the front part, you will need to remove it to access the nut that is located at the bottom of the regulator so you can use a wrench. Pull the cover off by hand to remove it. The black switch should be pointing down so that it is out of the way when you remove the cover.

#### c. Remove the pigtails (lines attaching directly to the propane tanks)

You can also remove the old pigtails if you are planning on using them on your new regulator. Make sure you use the gas line thread tape (yellow Teflon tape) when attaching the old pigtails to your replacement propane regulator.

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**d. Apply gas line thread tape**

Next remove all the old yellow gas line tape from the main gas lines threads and re-tape it. Make sure you tape the same direction you will be screwing on the propane regulator so that it does not move and get undone while you tighten the regulator.

**e. Attach the propane regulator to the main gas line**

Now screw the new regulator onto the main gas line. Make sure you use plenty of tape for a good seal and don't cross-thread nut onto the bolt. For a snug leak-free fit, tighten using the two crescent wrenches.

**f. Attach propane regulator to propane tanks**

After securing the RV propane tank to the main gas line, then attach the two pigtails to your propane tanks. If the regulator has a monitor on it, it should change from red to green when you open a propane tank and point the arrow towards open tank.

**g. Check for leaks**

With the propane gas running through the regulator, you then need to inspect the connection between the propane regulator and the main gas line for leaks. To test for leaks, mix water with soap dish and apply it on the connection. If there are no bubbles appearing, it means the connection is tight. If there are bubbles, there is a leak, and you need to repeat the steps while making sure you use more gas line thread tape.

**3. How to replace a propane regulator**

Before you reset the propane regulator, it is important to understand that it has the same type of safety feature that a propane tank has. Inside the regulator, there is a small valve that will detect propane gas moving too fast through the system. If it senses this, it will stop or slow the flow of propane.

To reset a propane regulator, follow these instructions:

- a. Turn off the propane tank, and make sure all your propane appliances are off inside your RV.
- b. Wait a few minutes, and the regulator will reset itself.
- c. Then turn the propane tank on extremely slowly to allow the lines to become appropriately pressurized.
- d. After doing this, you should be able to ignite a propane appliance. If not, it may be time to replace your RV propane regulator.