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Flame King KT12ACR-2

Flame King KT12ACR-2 2-Stage Auto Changeover LP Propane Gas Regulator Instruction Manual

Model: KT12ACR-2 | Brand: Flame King

1. Introduction

The Flame King KT12ACR-2 is a 2-Stage Auto Changeover LP Propane Gas Regulator designed for use with RVs, vans, and trailers equipped with dual propane tanks. This regulator automatically switches from the primary propane tank to the reserve tank when the primary tank is depleted, ensuring an uninterrupted propane supply. A visual indicator changes color to notify you when a tank needs refilling. The regulator features a 1/4" SAE inverted flare inlet and a 3/8" NPT female outlet. This package includes two 12-inch pigtail hoses for connecting the regulator to your propane tanks.

2. Product Overview and Components

This section details the main components of your Flame King 2-Stage Auto Changeover LP Propane Gas Regulator.

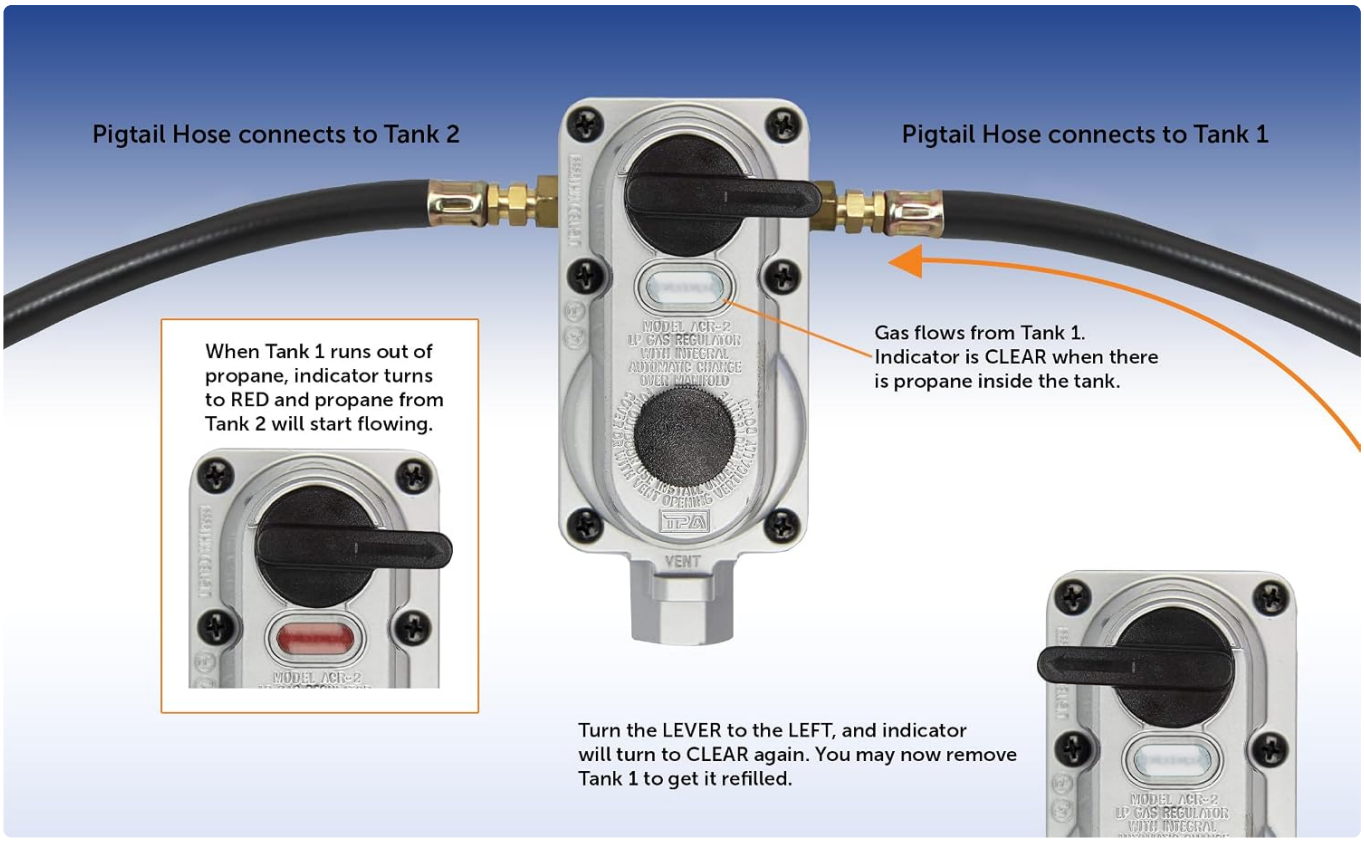


Image: The Flame King KT12ACR-2 regulator, highlighting the 1/4" SAE inverted flare inlet and 3/8" NPT female pipe thread outlet.

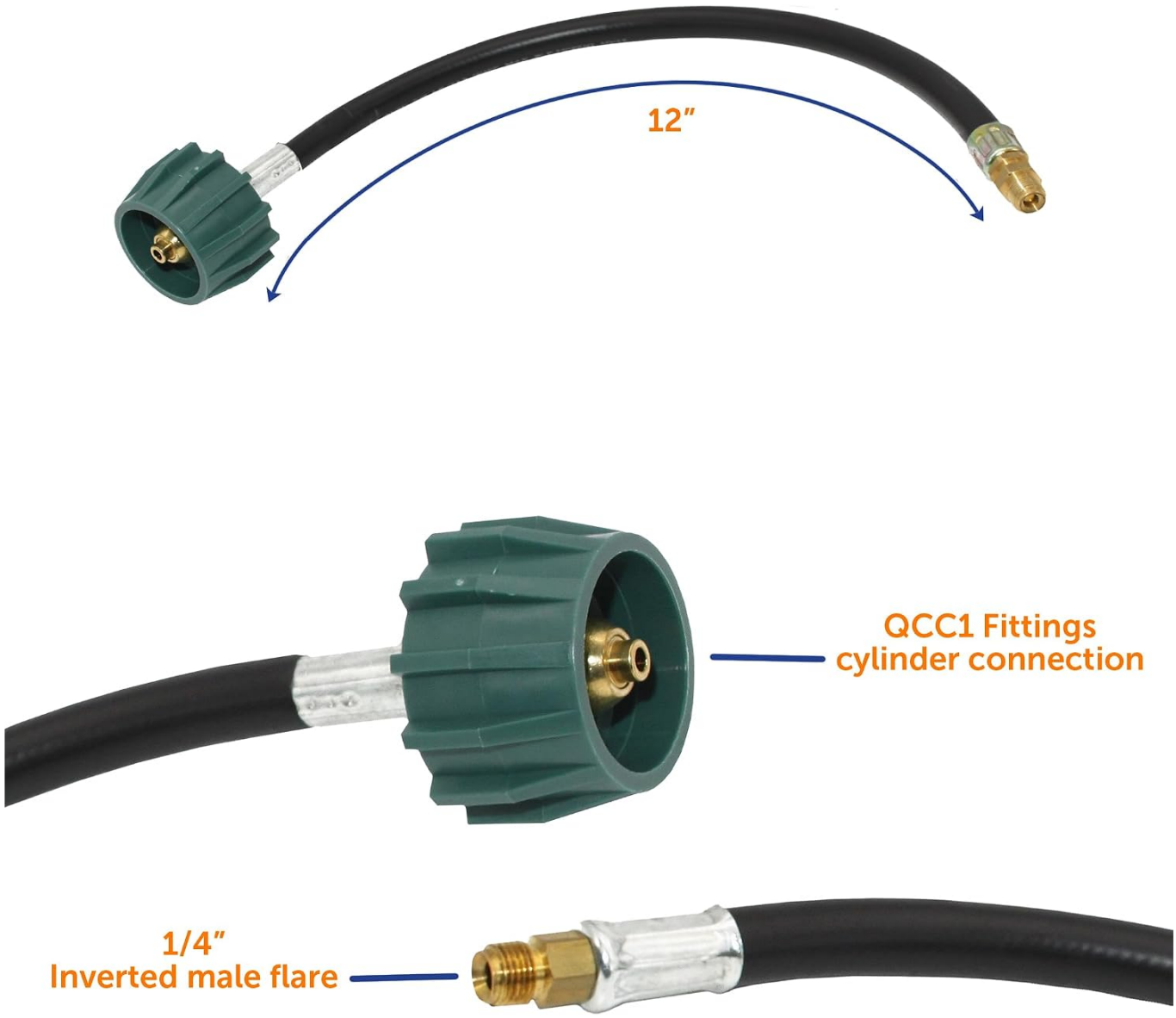


Image: A 12-inch pigtail hose, showing the QCC1 cylinder connection and the 1/4" inverted male flare for regulator attachment.

What's in the Box:

- One (1) Flame King 2-Stage Auto Changeover LP Propane Gas Regulator
- Two (2) 12-inch Pigtail Hoses

3. Setup and Installation

Proper installation is crucial for safe and efficient operation. Always ensure all connections are tight and leak-free.



Image: The Flame King regulator installed on a dual propane tank rack, with pigtail hoses connecting it to two propane tanks. (Propane tanks and mounting racks are sold separately).

Installation Steps:

1. Mount the regulator securely to your RV, van, or trailer using appropriate hardware (not included). Ensure the regulator vent is positioned downward.
2. Connect one end of each 12-inch pigtail hose to the inlet ports of the regulator.
3. Connect the other end of each pigtail hose to the QCC1 connection on your propane tanks. Hand-tighten the connections, then use a wrench to ensure they are secure.
4. Connect the 3/8" NPT female outlet of the regulator to your RV's propane system.
5. Perform a leak test on all connections using a soapy water solution. Bubbles indicate a leak. Tighten connections as needed and re-test.

Video: An official Flame King video demonstrating how to use the 2-Stage Auto Changeover LP Propane Gas Regulator, including connection and operation.

4. Operating Instructions

The auto-changeover feature simplifies propane management by automatically switching tanks.



Image: A diagram illustrating the regulator's indicator. When Tank 1 is active and full, the indicator is clear. When Tank 1 is empty, the indicator turns red, and the regulator automatically switches to Tank 2. The lever can then be turned to the left to reset the indicator to clear once Tank 1 is removed for refill.

How the Auto-Changeover Works:

1. Ensure both propane tanks are connected and their valves are open.
2. The regulator will draw propane from the tank selected by the lever (usually the primary tank). The indicator will show a clear or green color, indicating propane is flowing from that tank.
3. When the primary tank runs out of propane, the regulator will automatically switch to the reserve tank. The indicator will change to a red color, signaling that the primary tank is empty and needs refilling.
4. To remove the empty tank for refilling, turn the regulator lever towards the empty tank. The indicator will return to clear. Close the valve on the empty tank before disconnecting.
5. After refilling and reconnecting the tank, open its valve. The regulator will continue to draw from the full tank.

5. Maintenance

Regular maintenance helps ensure reliable propane flow, especially in cold weather, and extends the life of your regulator.



Image: Best practices for preventing propane regulator freeze-out and ensuring reliable propane flow in cold weather.

Best Practices to Prevent Propane Regulator Freeze-Out:

- **Keep Moisture Out of the System:** Ensure propane tanks are properly sealed. Regularly drain moisture from the system if applicable. Avoid running tanks completely dry, as air containing moisture can enter.
- **Protect the Regulator from Snow and Ice:** Install a regulator cover or shield to protect it from direct snow, ice, and freezing rain. Avoid placing the regulator in areas where ice or snow runoff can accumulate.
- **Maintain Proper Tank and Regulator Ventilation:** Keep the regulator vent clear of obstructions such as ice, snow, dirt, or debris. Ensure the regulator's vent hole is positioned downward to prevent moisture accumulation and ice blockage.
- **Prevent Overcooling of the Tank:** Keep the propane tank at least 30% full to maintain proper vaporization pressure. Insulate the tank with a weather-resistant thermal blanket. Elevate the tank off the ground on a stable platform to reduce contact with frozen surfaces.
- **Use a Two-Stage Regulator System:** A two-stage regulator setup improves propane pressure consistency and helps prevent freeze-ups. Ensure regulators are properly sized for your appliances.
- **Apply Heat Safely:** Use a low-wattage electric heat source or heat tape designed for propane regulators. Never use an open flame or direct heat source to thaw a frozen regulator.
- **Regular Maintenance and Inspections:** Inspect the propane system regularly for leaks, moisture buildup, or frost accumulation. Have a qualified technician perform annual maintenance on the regulator and propane system.

6. Troubleshooting

If you encounter issues with your propane regulator, consider the following common problems and solutions.

Common Issues:

- **No Propane Flow:** Check if tank valves are fully open. Ensure tanks are not empty. Verify the regulator lever is pointing to a full tank. Inspect pigtail hoses for kinks or damage.
- **Low Propane Pressure:** This could indicate a nearly empty tank, a partially closed tank valve, or a regulator issue. In cold weather, ensure tanks are sufficiently full and protected from freezing.
- **Leaks:** Propane leaks are serious. If you smell propane or detect leaks with a soapy water solution, immediately shut off all propane tank valves. Do not use any ignition sources. Re-tighten connections and re-test. If leaks persist, replace faulty components or seek professional assistance.
- **Regulator Freeze-Up:** Refer to the maintenance section for preventative measures. If a freeze-up occurs, ensure the area is well-ventilated and allow the regulator to thaw naturally. Do not apply direct heat.

If troubleshooting steps do not resolve the issue, contact a qualified RV technician or Flame King customer support.

7. Specifications

Feature	Specification
Model Number	KT12ACR-2
Inlet Connection	1/4" SAE Inverted Flare
Outlet Connection	3/8" NPT Female Pipe Thread
BTU Rating	345,200 BTU
Factory Set Pressure	11 WC (Water Column)
Pigtail Length	12 inches (x2)
Dimensions (approx.)	7 x 4 x 4 inches
Item Weight	2.38 pounds

8. Safety Information

WARNING: Propane gas is highly flammable and can cause explosions, fires, or asphyxiation if not handled properly. Always follow these safety guidelines:

- Always perform a leak test after any connection or disconnection of propane components.
- Ensure adequate ventilation when using propane appliances.
- Never store propane tanks indoors or in enclosed spaces.
- Keep propane tanks and regulators away from heat sources, open flames, and ignition sources.
- Do not attempt to repair damaged propane tanks or regulators. Replace them immediately.
- If you smell propane, immediately shut off the gas supply at the tank, ventilate the area, and extinguish all open flames. Do not operate electrical switches or phones. Seek professional help.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm (Proposition 65 warning).

9. Warranty and Support

For warranty information, product support, or to inquire about replacement parts, please contact Flame King customer

service directly. Keep your purchase receipt as proof of purchase for any warranty claims.
You can typically find contact information on the manufacturer's website or through the retailer where you purchased the product.

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