



BASO Gas Products LLC

KIT-VLV Universal Replacement Gas Valve Mounting Plate

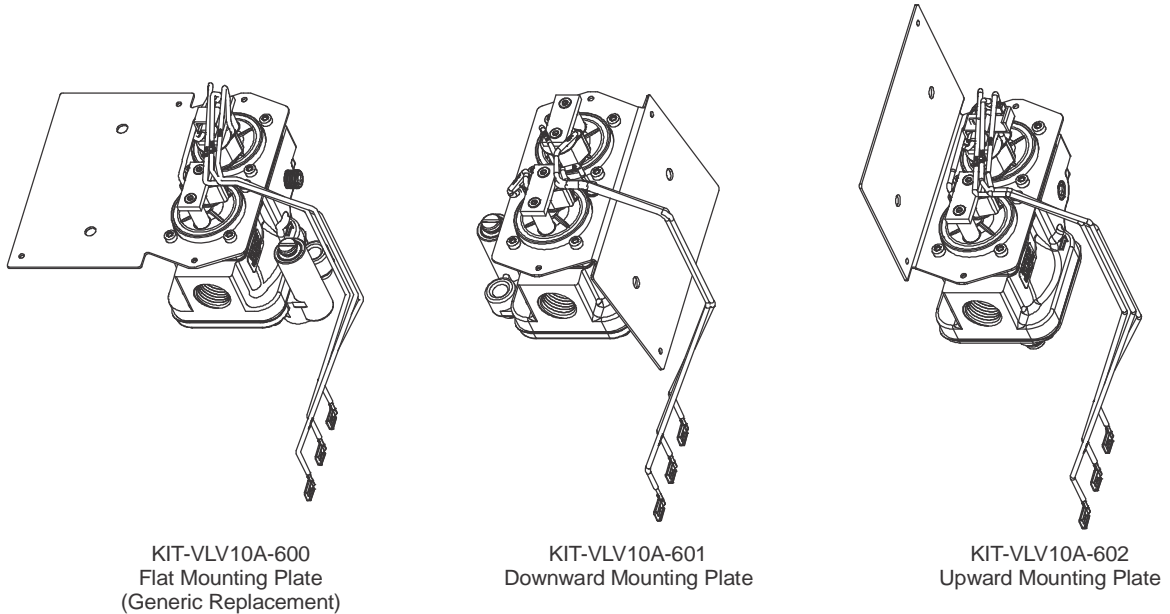


Figure 1: Mounting Plate Options for Ignitions

Application

The KIT-VLV is used when replacing a Johnson Controls ignition module with the new BASO ignition module.

Table 1: Replacement BASO Models with Bracket

Old BASO Model	New BASO Model	Kit Conversion	New Position of Model
VLV49A-600R Bottom Adjust Regulator	VLV78A-606R	*KIT-VLV10A-602 or *KIT-VLV10A-600	Up, right, Left, or Flat
	VLV78A-608R		
VLV34A-648R or VLV49A-601R Top Adjust Regulator	VLV78A-600R	*KIT-VLV10A-602 or *KIT-VLV10A-600	Up or Flat
	VLV78A-601R	*KIT-VLV10A-601	Down
VLV49A-602R No Regulator	VLV78A-610R	*KIT-VLV10A-602	Up, Right, or Left
	VLV78A-612R		

***Note:** Mounting plate should not cover the regulator adjusting cap.

Installation

IMPORTANT: Only qualified personnel should install or service BASO® Gas Products. These instructions are a guide for such personnel. Carefully follow all instructions in this document and all instructions for the appliance.

IMPORTANT: Make all gas installations in accordance with applicable local, national, and regional regulations.



CAUTION: Risk of Electrical Shock. Disconnect power supply before making electrical connections to avoid electrical shock.



WARNING: Risk of Explosion or Fire. Shut off the gas supply at the main manual shutoff valve before installing or servicing the valve. Failure to shut off the gas supply can result in the release of gas during installation or servicing, which can lead to an explosion or fire, and may result in severe personal injury or death.



WARNING: Risk of Explosion, Fire, or Electrical Shock. Label all wires before they are disconnected when replacing or servicing the valve. Wiring errors can cause improper or dangerous operation and may result in an explosion, fire, or electrical shock.



Figure 2: Photo of Retrofit Ignition System

Remove the Existing Ignition from the Valve Assembly

Note: Refer to Table 1 to ensure that you are installing the correct mounting kit.

To remove the ignition control from the valve assembly:

1. Turn off power to the appliance.
2. Turn off the gas at the main manual shutoff valve adjacent to the appliance. (If the main manual shutoff valve services more than one appliance, be sure to light the other pilots before leaving the installation.)
3. Label each wire with the correct terminal designation prior to disconnection.
 - a. Disconnect the power supply (transformer) and the thermostat lead wire at the ignition control.
 - b. Disconnect the sensing probe lead from Terminal 4 on the ignition control.
 - c. Disconnect the high voltage cable from the spark transformer.
 - d. Disconnect the Pilot Valve 1 and Main Valve 3 leads from the terminal board or 5-end plug-in Heyco terminals.
4. Remove the screws holding the ignition control assembly to the valve and plate assembly. These two screws are located on the bottom surface of the ignition control assembly.
5. Remove the ignition control.

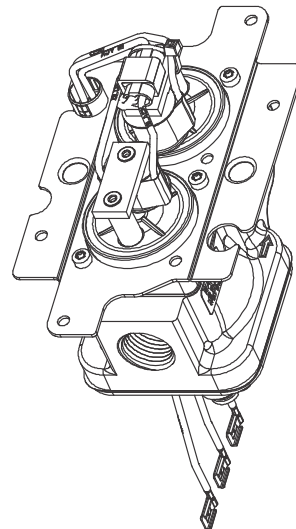


Figure 3: Valve with Ignition Module Removed

Remove the Existing Mounting Plate

1. Push the grommet (Item 1) out of plate, remove the wires from the grommet, and pull the wires out of the hole in the plate.

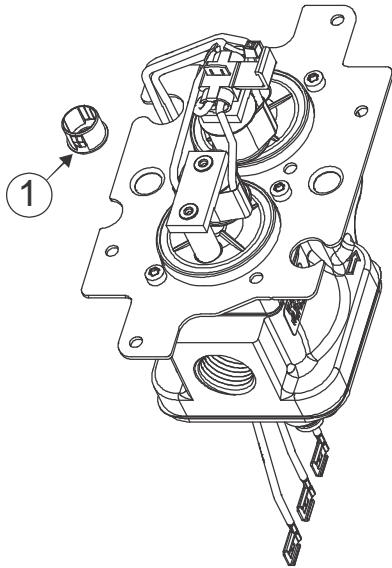


Figure 4:

2. Cut the TyRap (Item 2) (be careful not to damage the wire insulation) and remove TyRap.
3. Open the connector (Item 3) by using a flat blade screw driver to release connector tab. Remove the metal blade (Item 4) connecting the two black wires. Remove wires from the connector (Item 3).

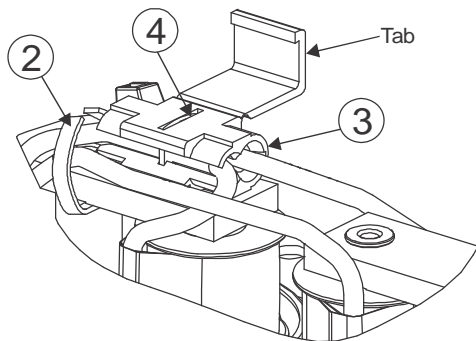


Figure 5:

4. Secure the valve body (Item 5) and keep the coils in the upright position. Remove 4 screws (#8 x .75") (Item 6) which holds the mounting plate (Item 7) down onto the valve body (Item 5).

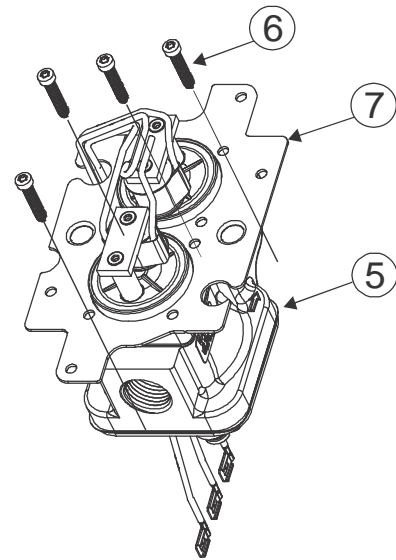


Figure 6:

5. Remove the mounting plate (Item 7) from the valve body (Item 5) and carefully pull the wires through the hole in the mounting plate (Item 7).
6. With the mounting plate (Item 7) removed from the valve body (Item 5) the unit should look like Figure 7.

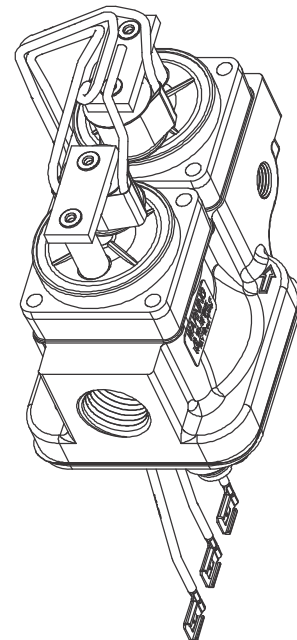


Figure 7:

Install New KIT-VLV Mounting Plate

1. Place new mounting plate (Item 8) either for kit (KIT-VLV10A-601 for down position, KIT-VLV10A-602 for up position or KIT-VLV10A-600 flat [not shown]) onto the valve body (Item 5) pulling wires through the opening for the corresponding coil in the mounting plate (see Figure 8A, 8B and 8C).

Note: Before mounting the plate, check for access to the regulator cap and mount the plate accordingly.

2. Place 8 (#8 x .75") screws (Item 6) 4 from the kit and the original 4 screws removed on Figure 6 mounting holes. Secure the mounting plate (Item 8) and the two coils (Item 9) to the valve body (Item 5). Tighten screws (Item 6) in a crossing pattern to hold the mounting plate (Item 8) in place. Torque all 8 (#8 x .75") screws (Item 6) to (10-15 in.lb).

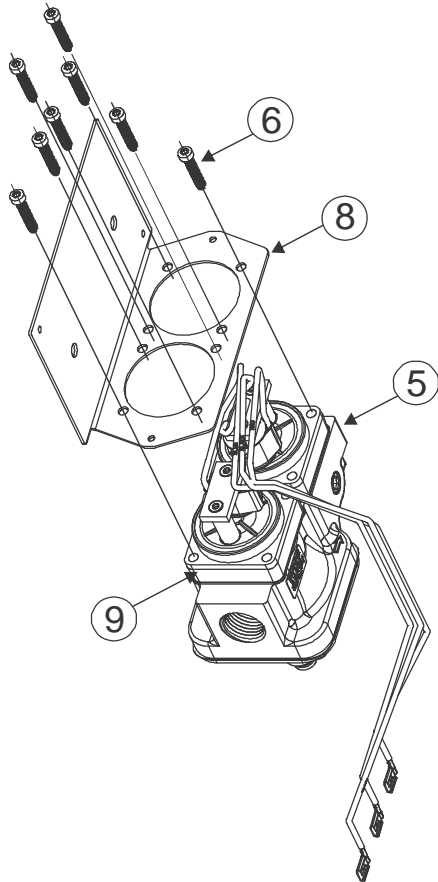


Figure 8A:

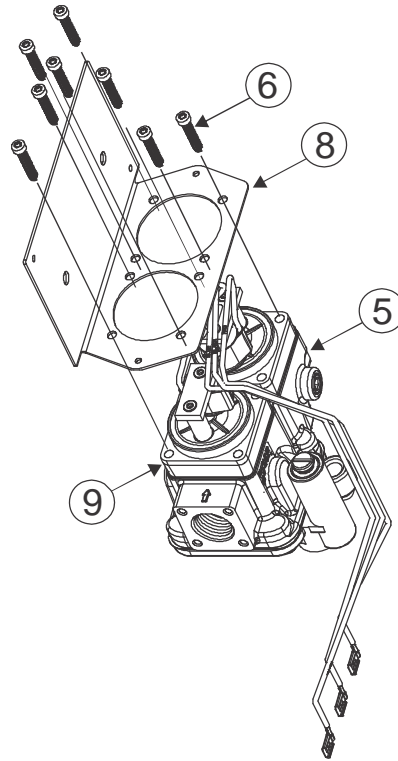


Figure 8B:

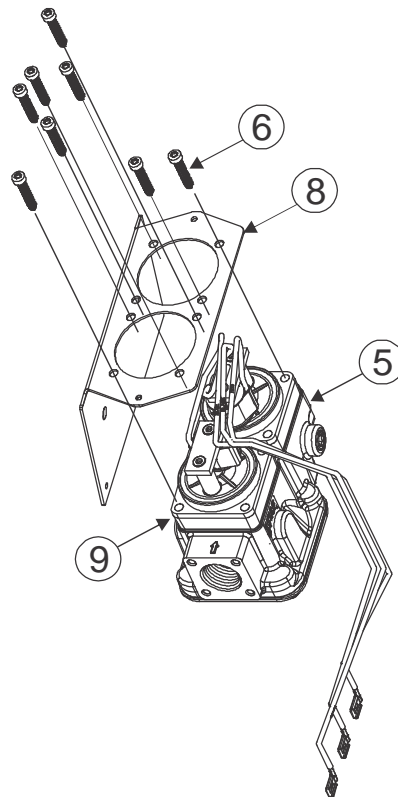


Figure 8C:

3. Add the connector (Item 3) from the kit to re-connect the black wires together.

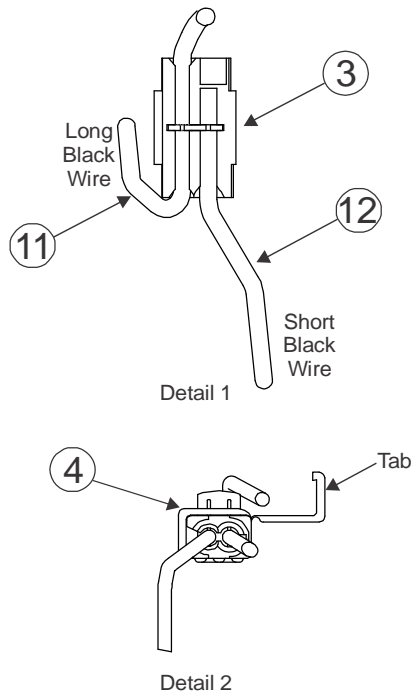


Figure 9:

4. Take the longer black wire (Item 11) and route it through the connector (Item 3) as shown in Detail 1 of Figure 9.
5. Take the short black wire (Item 12) and route it into the connector (Item 3) and run the end of the wire up to the stop in the connector.
6. Use a pliers to press the metal blade (Item 4) to pierce the wire insulation connecting the black wires.
7. Close the tab of the connector (Item 3) and press firmly to close (see Detail 2 of Figure 9).
8. The installation should look like Figure 10.

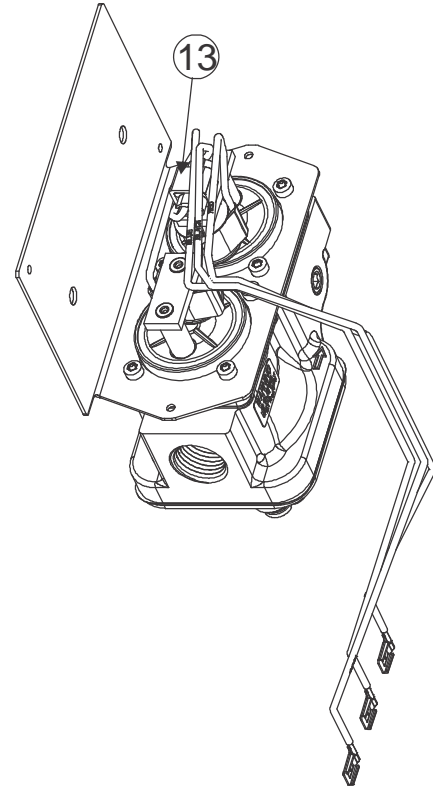


Figure 10A:

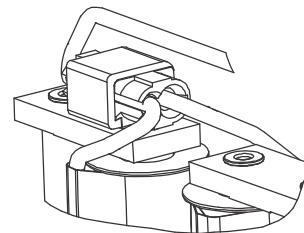


Figure 10B:

9. Pull the three wires, one at a time, (black, blue, and red) through the hole in the plastic cover (Item 14).
- Note:** Do not pull too hard on wires as you might damage the connection at the coil.
10. Add the cover (Item 14) on top of the mounting plate (Item 8) and secure with 2-(#6 x 3/4) screws provided in the kit (Item 15) (see Figure 11).
 11. Slide the wires through the open section of the grommet (Item 16) (see Figure 11).

12. Push the grommet (Item 1) into the hole of the cover (Item 14) and carefully pull excess wire out of the cover.
13. The valve assembly is now complete and should look like Figure 12, depending on the kit you have and the valve assembly.

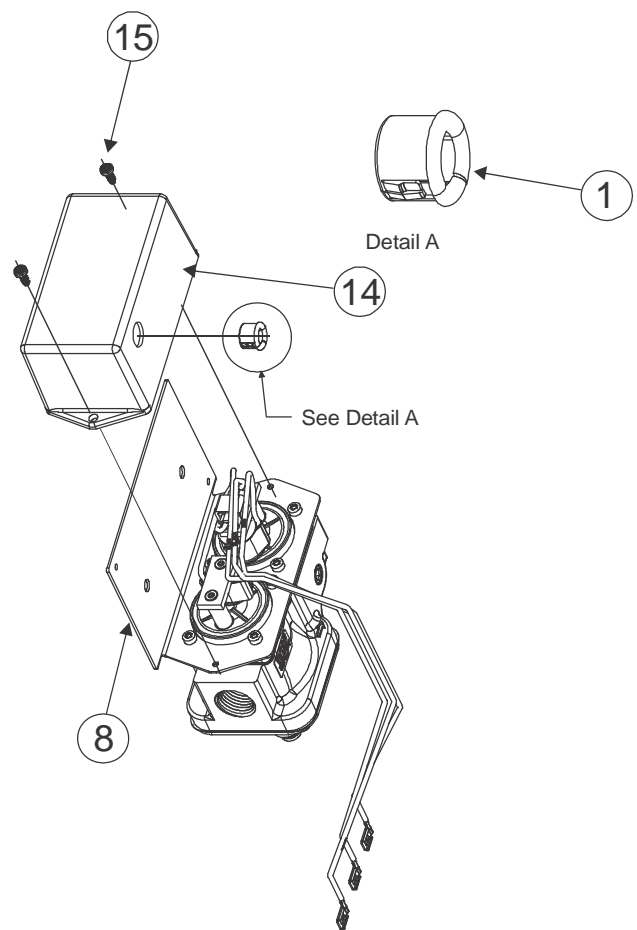


Figure 11:

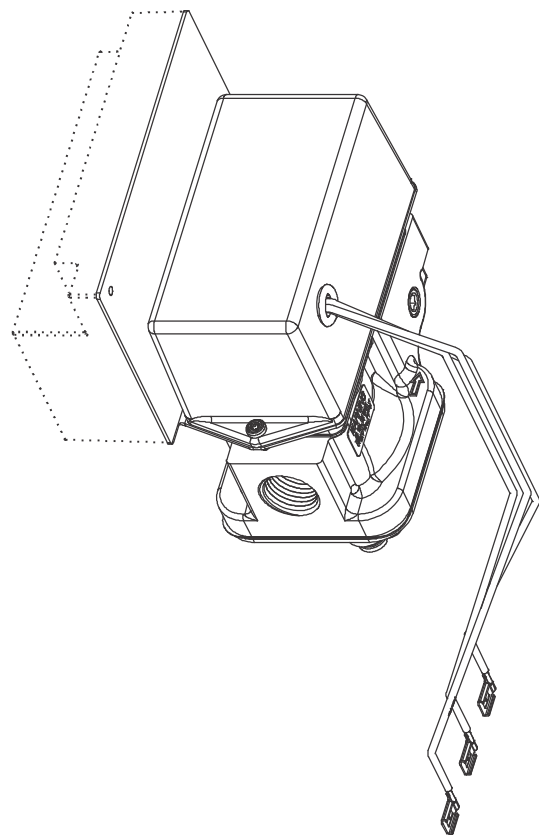


Figure 12: Completed Assembly

14. The ignition control can now be mounted to the bracket and wired to the valve (see the ignition control installation instructions for assembly and wiring).

Setup and Adjustments

Checkout



WARNING: Risk of Explosion or Fire.

Follow this or an equivalent checkout procedure after installation. Before leaving the installation, verify that the gas valve functions properly and that the system has no gas leaks. Gas leaks can lead to an explosion or fire, and may result in severe personal injury or death.

Make sure all components are functioning properly by performing the following test:

1. Test for leaks on all pipe joints and connections upstream of the gas valve with a soap solution.
2. Turn the thermostat to a low setting.
3. Turn on the gas and purge the gas lines of all air.
4. Turn the thermostat to a high setting. The appliance should operate in accordance with the manufacturer's specified sequence of operation.
5. Test for leaks on all pipe joints and connections downstream of the gas valve with a soap solution.
6. Turn the thermostat down for at least 30 seconds and then back up again. Observe at least three complete operating cycles to make sure that all the components are functioning properly.
7. Reset the thermostat to the desired setting before leaving the installation.
8. Check for leaks at the pressure tap plug with a soap solution before leaving the site.

Performance specifications are nominal and conform to acceptable industry standards. All agency certification of BASO products is performed under dry and controlled indoor environmental conditions. Use of BASO products beyond these conditions is not recommended and may void the warranty. Product must be protected if exposed to water (dripping, spraying, rain, etc.) or other harsh environments. The original equipment manufacturer or end user is responsible for the correct application of BASO products. Consult BASO Gas Products LLC for questionable applications. BASO Gas Products LLC shall not be liable for damages or product malfunctions resulting from misapplication or misuse of its products.



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