Dometic

3311145.000

KIT, SECONDARY BURNER HOUSING ASSEMBLY FOR Americana/AMES/AES 2-Way Refrigerators

MODELS RM2652, RM2662, RM3662 RM2852, RM2862, RM3862 & NDR1062

USA
SERVICE OFFICE
Dometic, LLC
2320 Industrial Parkway
Elkhart, IN 46516
574-294-2511

CANADA
Dometic, LLC
46 Zatonski, Unit 3
Brantford, ON N3T 5L8
CANADA
519-720-9578

For Service Center
Assistance Call:
800-544-4881

Serial Numbers:

713xxxxx through 752xxxxx
801xxxxx through 852xxxxx
901xxxxx through 952xxxxx
001xxxxx through 052xxxxx
101xxxxx through 152xxxxx
201xxxxx through 252xxxxx
301xxxxx through 319xxxxx
320xxxxx through 352xxxxx
401xxxxx through 452xxxxx
501xxxxx through 552xxxxx
601xxxxx through 639xxxxx

Patent Pending

Dometic, LLC recall campaign numbers 06E-076 and 08E-032

SERVICE INSTRUCTION

This Kit Is Only Intended For The Dometic Brand Of Product And Is Not To Be Used On Any Other Brand And Model Of Product

REVISION
Form No. 3311146.041 7/08
(Replaces 3311146.033)
(French 3311263.044 - Replaces 3311263.036)

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LaGrange, IN 46761

SAFETY INSTRUCTIONS

This manual has safety information and instructions to help users eliminate or reduce the risk of accidents and injuries.

RECOGNIZE SAFETY INFORMATION

This is the safety-alert symbol. When you see this symbol in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating instructions.

UNDERSTAND SIGNAL WORDS

A signal word, **WARNING** OR **CAUTION** is used with the safety-alert symbol. They give the level of risk for potential injury.

⚠ WARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION When used without the safety alert symbol indicates, a potentially hazardous situation which, if not avoided, may result in property damage.

Read and follow all safety information and instructions.

GENERAL INSTRUCTIONS

⚠ WARNING

These instructions must be read and understood before installation of this kit. This kit must be installed by a Dometic Service Center or a qualified service technician. Modification of this product can be extremely hazardous and could result in personal injury or property damage.

TOOLS & SUPPLIES REQUIRED

Leak Detection Solution	Small Slot Screwdriver
#2 Phillips Screwdriver	Pop Rivet Gun
Long Needle Nose Pliers	Cordless Drill
#2 Phillips Long Bit	Open End Wrenches
Sheet Metal Shears	Wire Nut for 12-16 AWG
6" Plastic Tie wrap	

Note: Wear gloves to avoid injury when installing this kit.

Before starting installation of this kit, you must turn off the LP gas supply at the tank, remove the 120 VAC refrigerator power cord from the wall receptacle, and disconnect the 12 VDC supply line at the source.

⚠ WARNING

Personal injury hazard. Turn off LP gas supply at tank. Unplug 120 VAC refrigerator power cord from wall receptacle. Disconnect 12 VDC supply line at the source. Failure to heed this warning may cause severe personal injury or property damage.

CONTENTS OF KIT

Before beginning Installation verify all items are enclosed.

1.	Protection Plate, Back	1 PCS
2.	Bottom Plate	1 PCS
3.	Holder (Thermal Fuse)	1 PCS
4.	Cover (Heating element)	1 PCS
5.	Boiler Cover	1 PCS
6.	Rear Cover	1 PCS
7.	Thermo Disc	1 PCS
8.	Pop Rivet	2 PCS
9.	Drill Bit	1 PCS
10.	Screw, #8 x 18 x 1/2"	2 PCS
11.	Screw, #8 x 18 x 3/8"	4 PCS
12.	Wire, Complete	1 PCS
13.	Thermal Fuse (Wire)	1 PCS
14.	Service Instructions	1 PCS
15.	Wiring Diagram 3311211.000	1 PCS
	Wiring Diagram 3311221.000	1 PCS
	Wiring Diagram 3312755.000	1 PCS
16.	Screw, #8 x 1-3/8"	2 PCS
17.	Warranty Card (not shown)	1 PCS

INSTALLATION INSTRUCTIONS

This step-by-step instruction describes how to install the Secondary Burner Housing Assembly consisting of a protection plate, bottom plate, boiler cover, rear cover, holder for thermal fuse, and cover for the heating element. Furthermore, it explains how to install the thermo disc and how to connect the thermal fuse and wire on units operating on LP gas and 120 VAC energy sources. These units are called 2-Way refrigerators.

Depending on how the refrigerator's ventilation grille is mounted, this Service Kit may be installed with the burner and burner cover in place. However, sometimes this is not possible and may require the removal of the burner and its cover in order to insert the bottom plate. These instructions explain how to go about removing and reinstalling the burner as well as necessary related tasks.

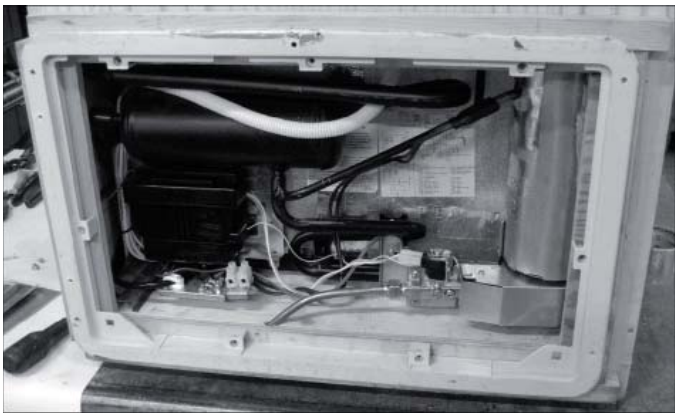
Note: If you find that this information is not applicable to you, please skip those steps including steps describing the loosening/tightening of the LP gas connection and performing leak detection.

During disassembly, **do not discard any of the removed screws. These will be used when reinstalling the different parts.**

PROCEED TO PAGE 4

Step 1. Remove refrigerator lower side vent access door.

Overview of rear equipment before starting the service kit installation.



Important: Before starting the installation:

A. determine if Item (1) back protection plate (See illustration in step 8)
and/or

B. determine if Item (2) bottom plate (See illustration in step 7)
will slide into place without disconnecting the gas line or removing the burner.

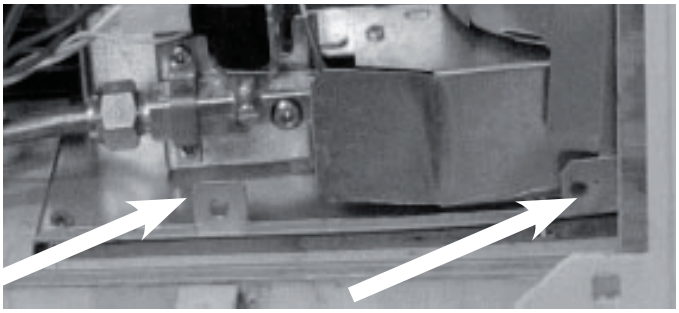
If for any reason the gas line or burner requires loosening or removal a gas leak test is required. (See step 21 & 37)

If gas line or burner does not require loosening or removal proceed to step 7.

If loosening or removal are required continue with step 2.

The bottom plate has two score lines on it. You may need to shear the bottom plate off at these locations to get it to fit on units that already have a sheet metal barrier under the burner.

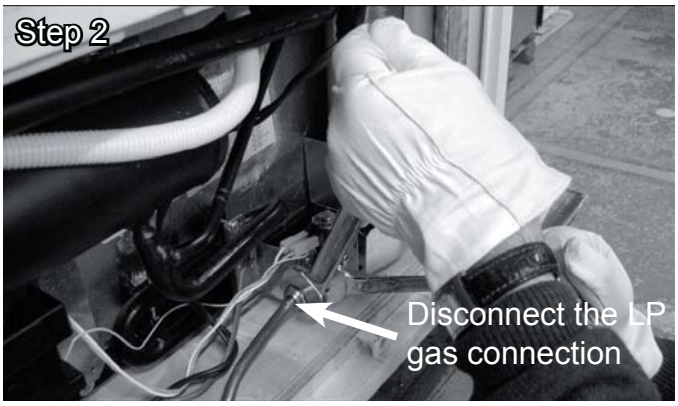
Note: Make sure the tabs identified with arrows in the photo below are facing up.



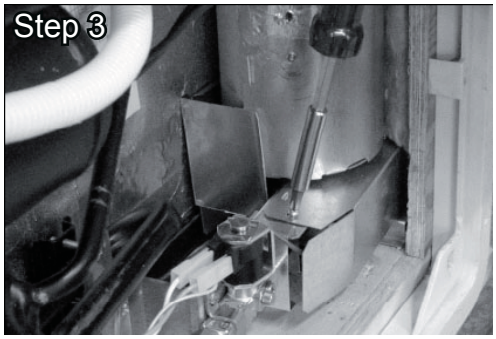
Step 2. Turn “OFF” LP gas supply at tank. Disconnect the LP gas line at the refrigerator. Use back up wrenches to secure the gas valve during removal of gas line. Plug gas line with appropriate size and type plug to prevent accidental LP gas discharge if LP gas tank is prematurely turned on.

⚠ WARNING

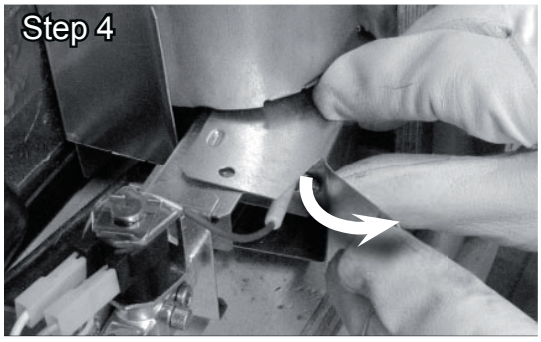
Explosion hazard. LP gas ignition could occur. Shut off the LP gas supply at the tank before disconnecting the LP gas line. Failure to heed this warning may cause severe personal injury or property damage.



Step 3. Remove the burner cover screw. **Save for reinstallation.**

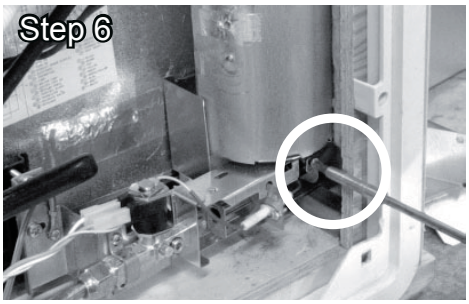


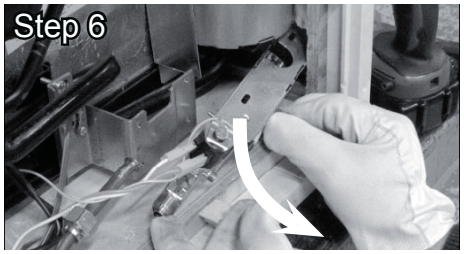
Step 4. Fold back the tab of the cover. This will allow the burner cover to shift left during removal.



Step 5. Slide burner cover to the left and remove. It may be necessary to pry the cover out using a slotted screw driver.

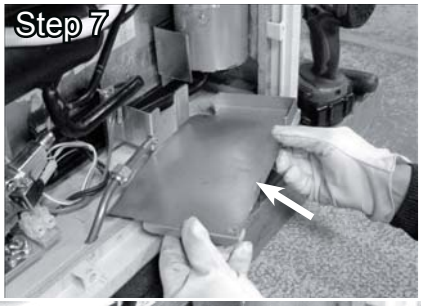
Step 6. If required for access to install all components of Secondary Burner Housing Kit, remove the burner by removing the five (5) fastening screws. **Save for reinstallation.**



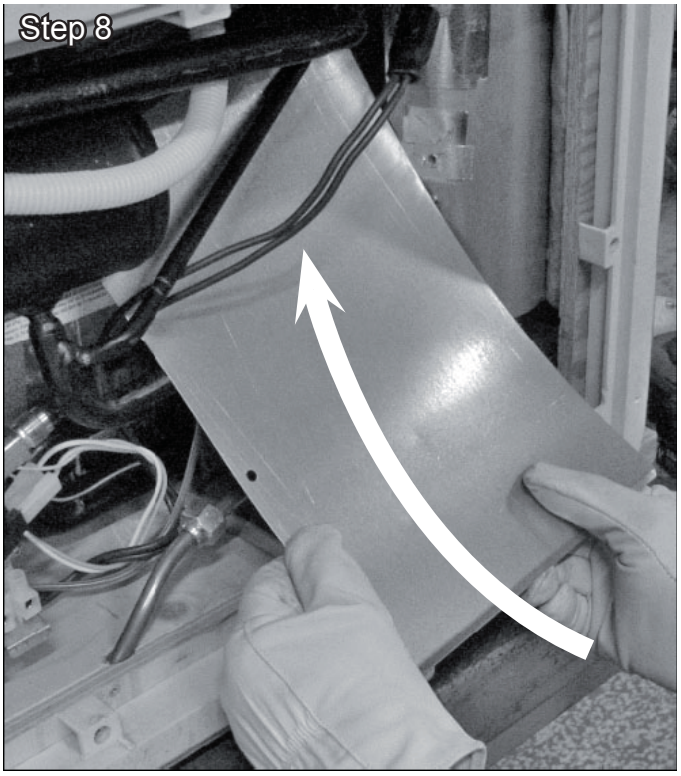


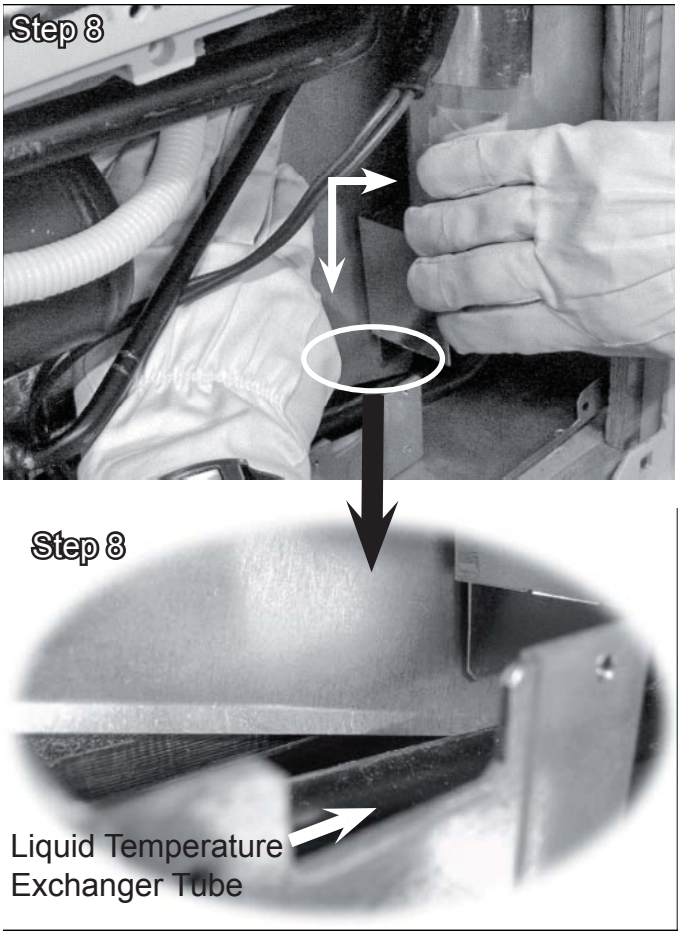
Step 7. Slide bottom plate, Item (2), into position. Edge with the two (2) mounting tabs will go toward you. Tabs should be up. See Step 1 photo. One end of the bottom plate should rest on the top of the refrigerator leg.

The bottom plate has two score lines on it. Although most units will not require modification, you may need to shear the bottom plate off at these locations to get it to fit on units that already have a sheet metal barrier under the burner. (See important message on page 4 of these instructions.

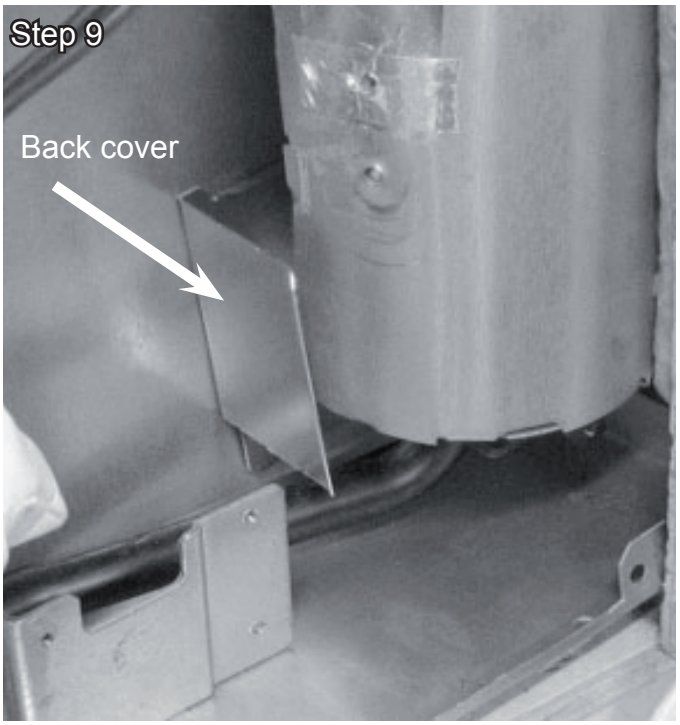


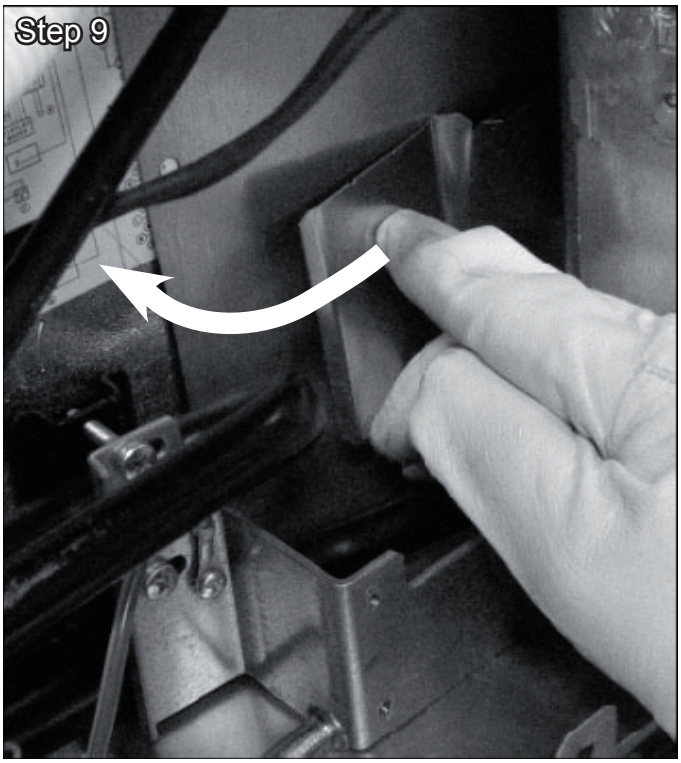
Step 8. Place the protection plate, Item (1), into position behind the flue jacket. The protection plate will fit flat against the backside of the refrigerator cabinet. It goes all the way to the bottom and side of the refrigerator. Slide the edge in between the frame and cabinet. Make sure to place it behind the liquid temperature exchanger.



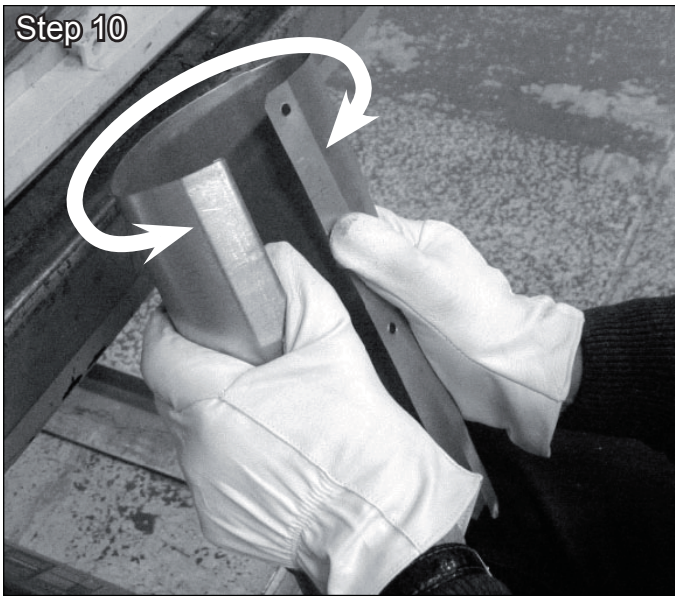


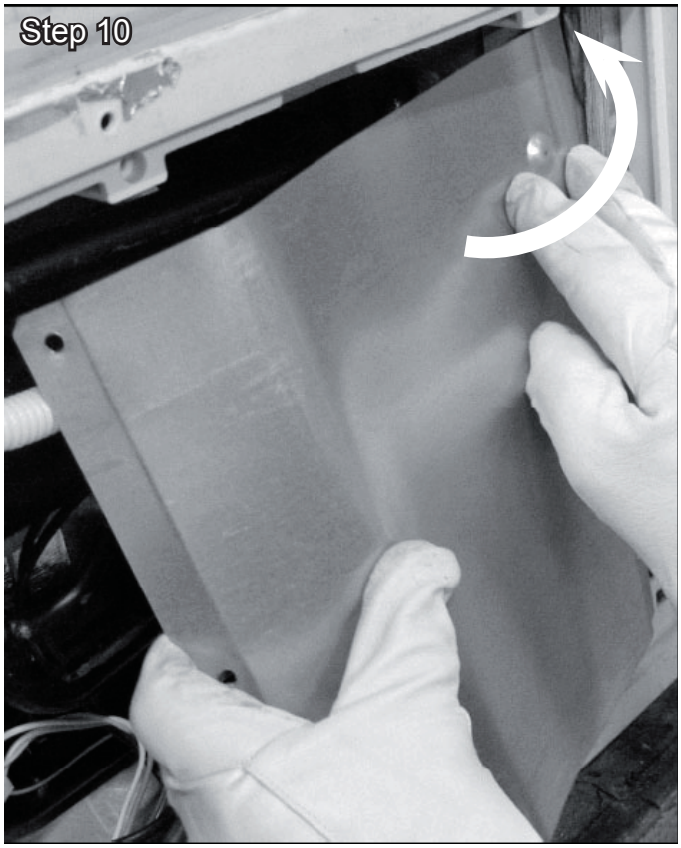
Step 9. Fold the existing back cover toward the protection plate.



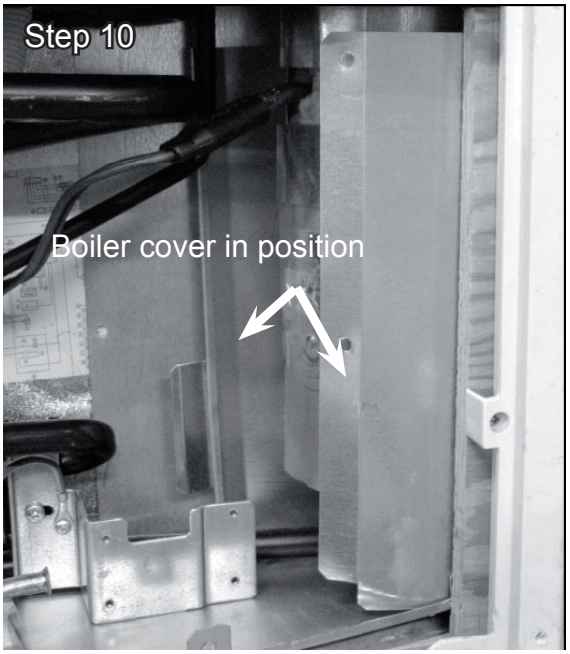


Step 10. Install the boiler cover, Item (5). The boiler cover is shipped flat with two angled edges. It will need to be formed to fit around the cooling unit flue jacket. With the angles facing toward you, grasp the side with the pre-drilled holes in your right hand and the opposite side with your left hand and bend the boiler cover toward you and form a circle approximately 6 inches in size. Note that additional adjustments to the exact form of the boiler cover may be necessary.

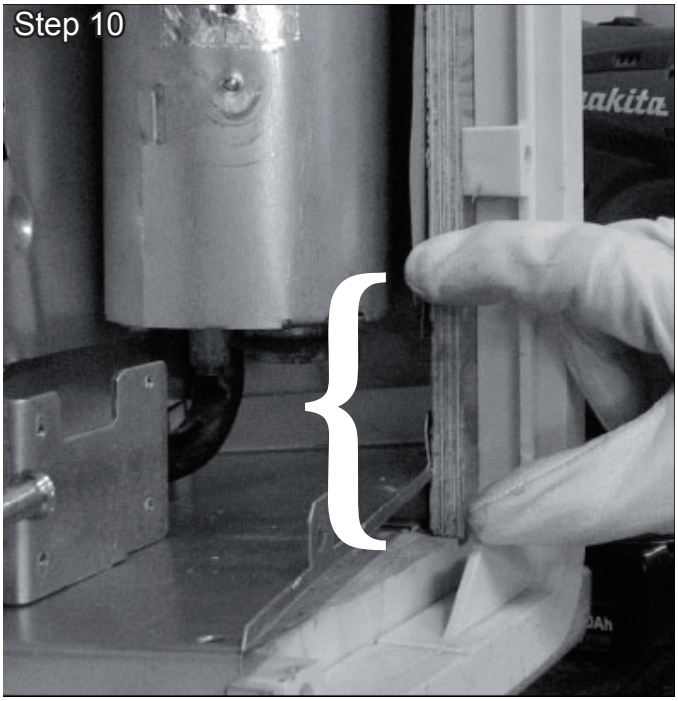




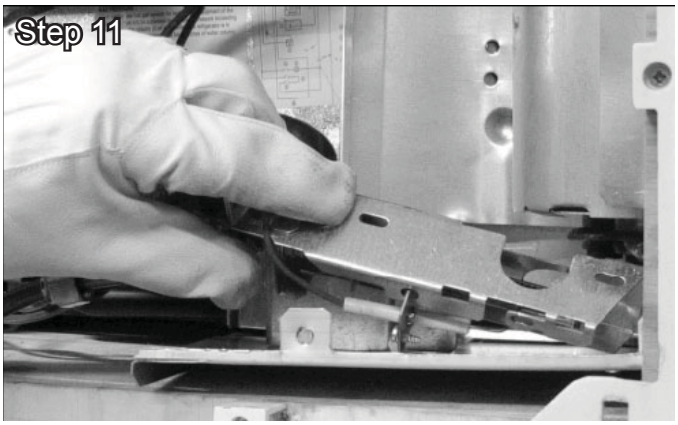
This will allow you to slide the cover around the cooling unit flue jacket. If required, pull the leading edge of cover from behind the cooling unit flue jacket using a pair of long needle nose pliers or by inserting a 6" plastic tie wrap into the clearance hole on the fold and flattened edge. The fold and flattened edge of the boiler cover should extend as shown in the photo below.

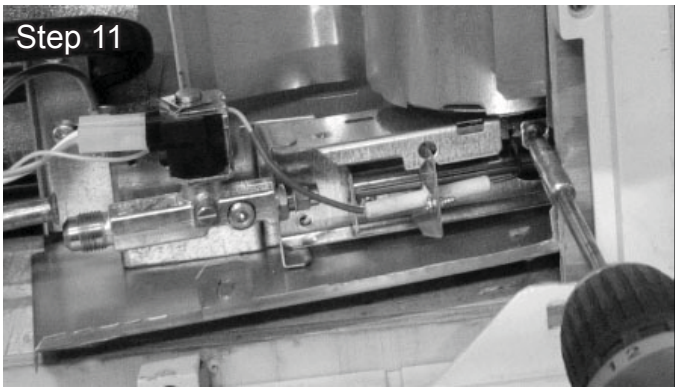


Leave sufficient spacing to enable the reinstallation of the burner, if burner removal was necessary.

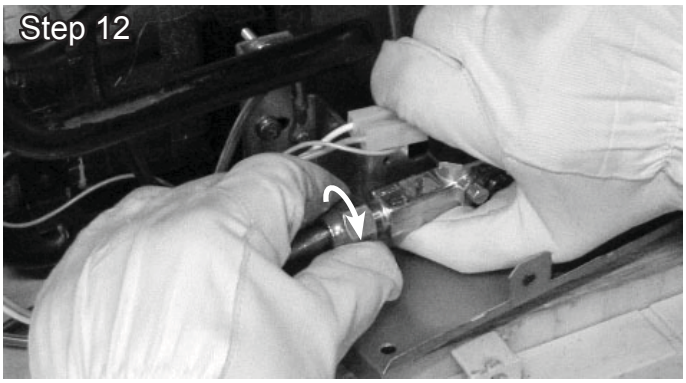


Step 11. In the unlikely event that the burner needed to be removed, reinstall burner at this step. Fasten only the right most screw first using one of the five (5) screws saved in step 6.

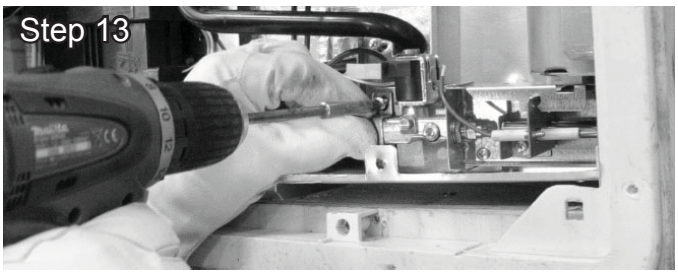




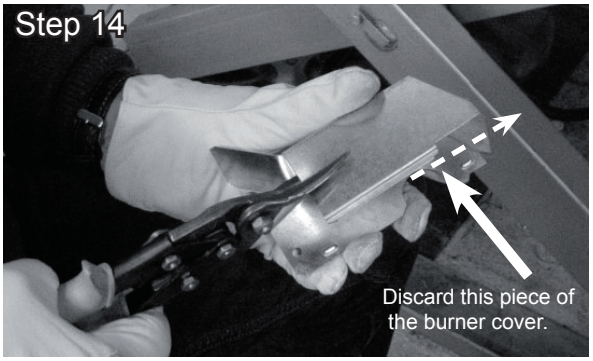
Step 12. Reconnect the LP gas line if you have removed it as part of this installation. Be sure to use a back up wrench to properly secure supply line to gas valve.

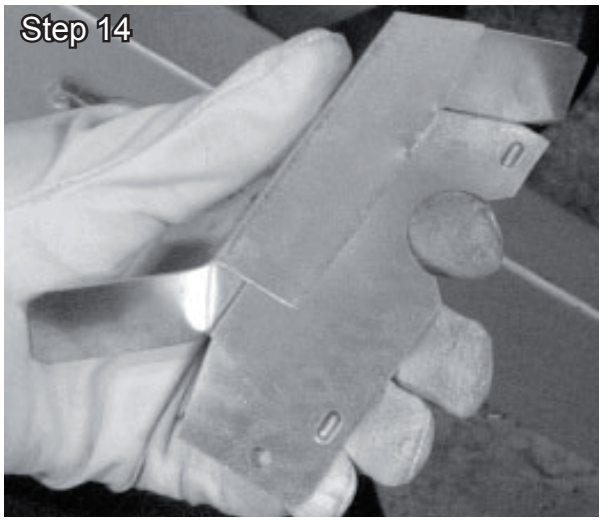


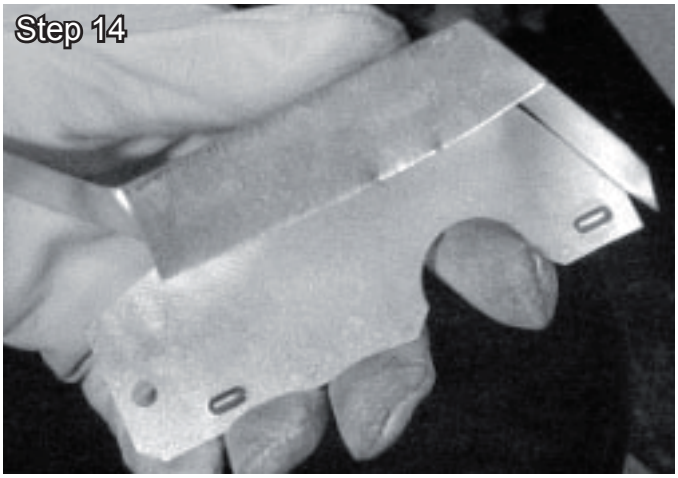
Step 13. Secure the burner with the remaining four (4) screws from step 6.



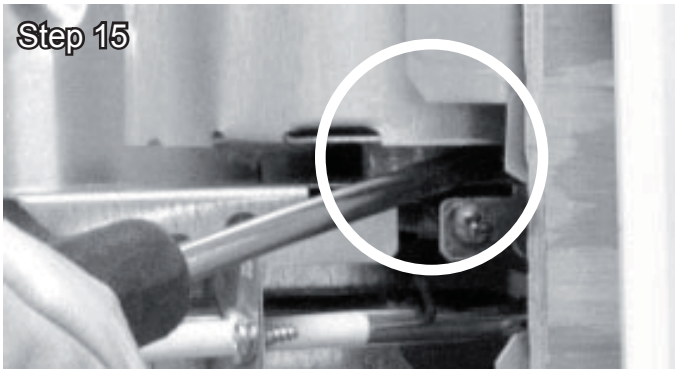
Step 14. If necessary, trim the bottom of the burner cover using a pair of metal shears as shown.



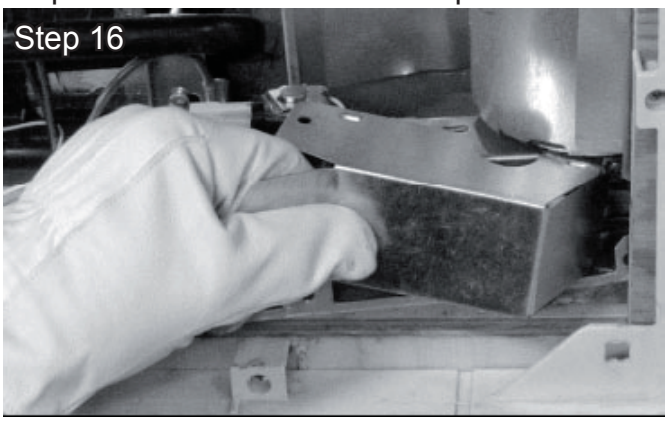


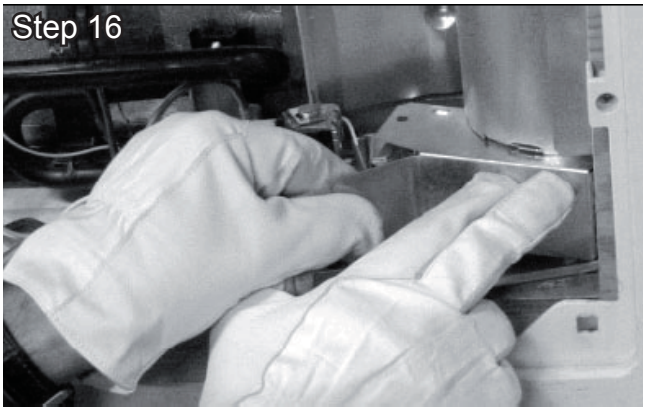


Step 15. Before reinstalling the burner cover, use a screw driver and raise the flue jacket slightly above its normal position. This will make the reinstallation of the burner cover easier.

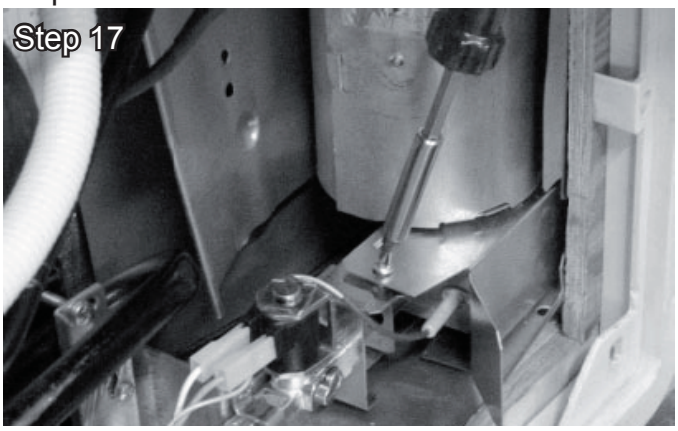


Step 16. Put the cover back in place.

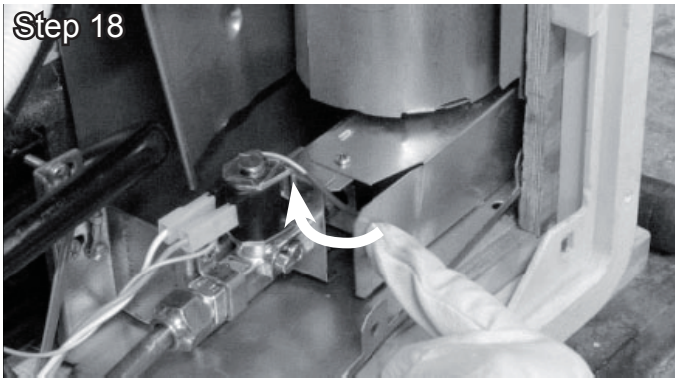




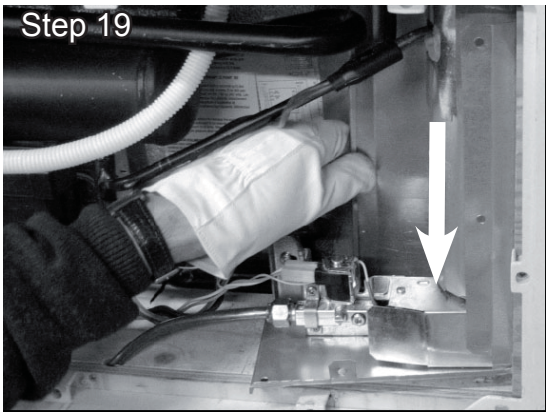
Step 17. Reinstall the cover screw.

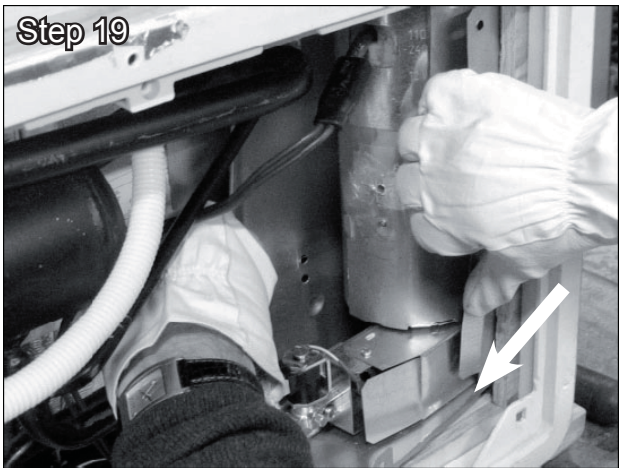


Step 18. Rebend tab to its original form.



Step 19. Readjust the flue jacket to rest on top of burner cover. Adjust new boiler cover to rest inside the bottom plate at the bottom of refrigerator.





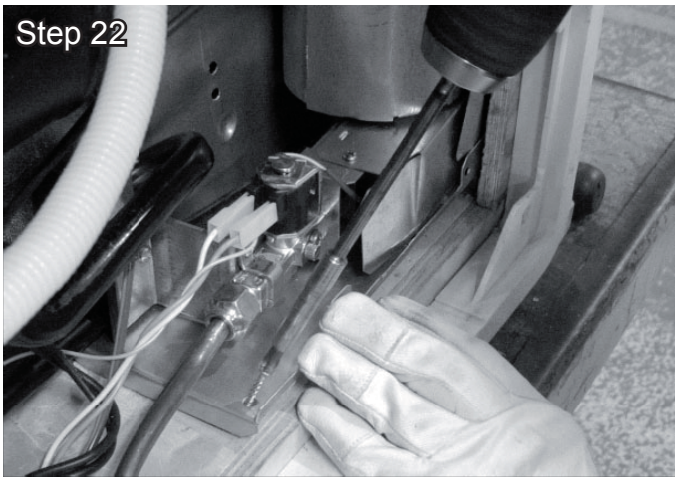
Step 20. Using two open end wrenches, make sure the LP gas connection is tight.

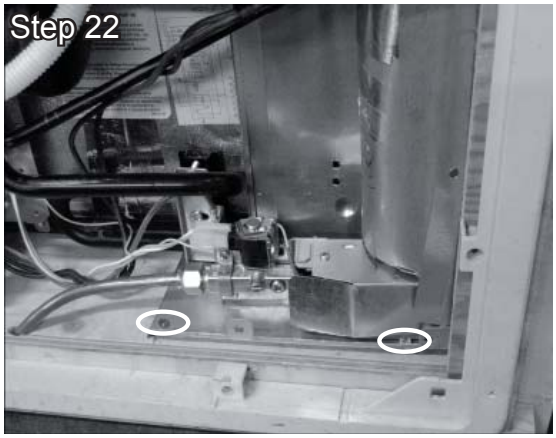
Step 21. Turn “ON” the LP gas tank. Make sure the refrigerator gas valve is also turned to the “ON” position. Using a calibrated manometer and a certified gas technician, conduct a pressure "DROP" leak test on the LP gas system per approved industry standard.

⚠ WARNING

Personal injury hazard. If the RV continues to indicate a gas leak by the decay of a manometer, the leak must be repaired before the gas system is allowed to be left on. Do not operate the RV with an LP leak at any location on the system.

Step 22. Secure the bottom plate with two supplied #8 x 1-3/8" screws, Item (16). Be careful not to over tighten. The bottom plate should not deflect or bend. If a pre-existing sheet metal barrier is present, you will need to drill holes in it that correspond with the holes in the bottom plate. The provided drill bit can be used for this function.





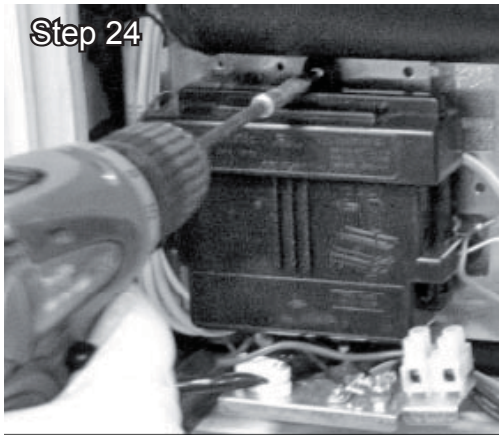
Step 23. Disconnect the incoming red (+) positive wire from the 12 VDC terminal block. Cap wire with appropriate size wire nut to prevent accidental contact with other objects if 12 VDC is prematurely reconnected.

CAUTION

Property damage hazard. Cap 12 VDC (+) positive wire with a wire nut. Failure to heed this warning could cause property damage

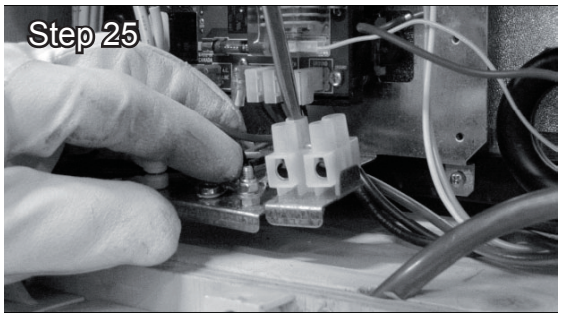
Step 24. Skip this step for integrated ignition modules. Remove the screw holding the power module cover in place (a). Use a flat-head screwdriver to pry open the plastic cover (b) and remove.

(a)

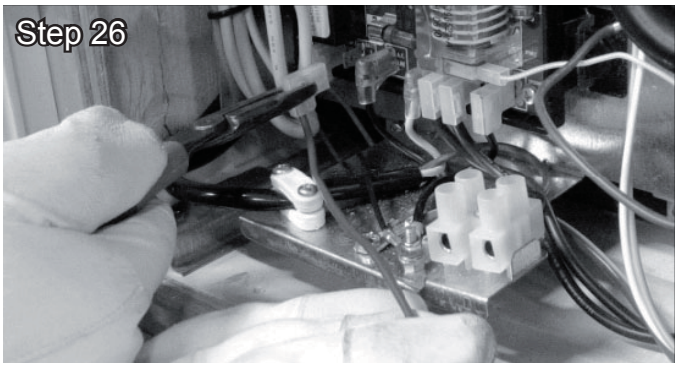


(b)

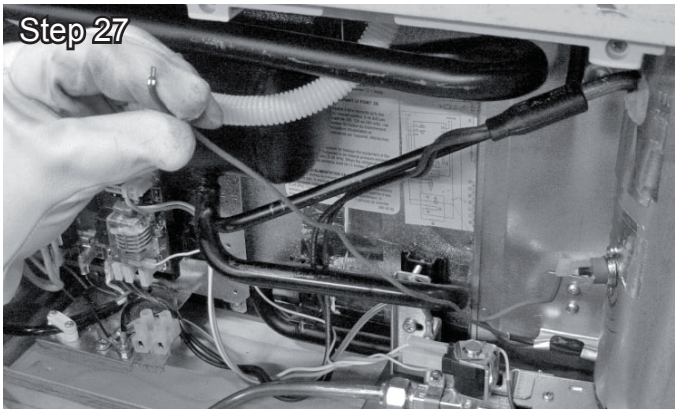
Step 25. Using a small screwdriver, disconnect the red (+) positive lead from the back side of the 12 VDC terminal block.

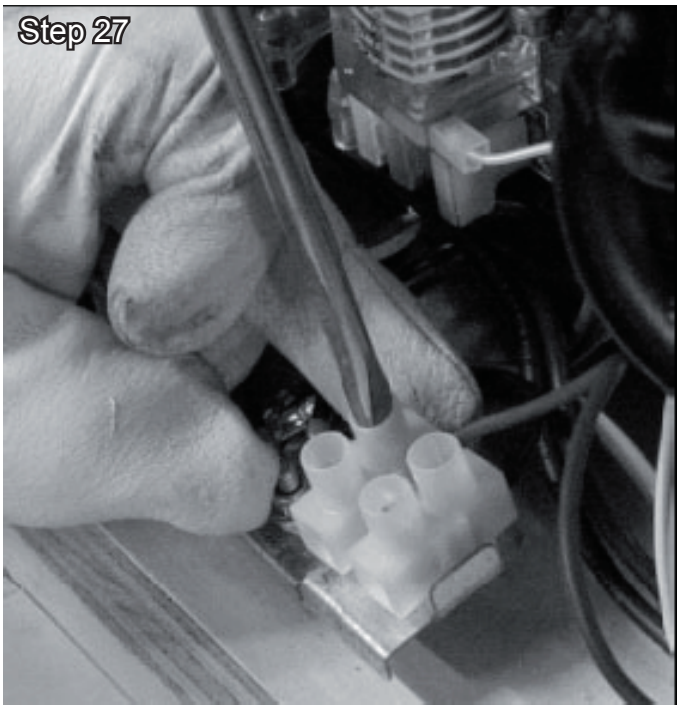


Step 26. Using a pair of pliers, disconnect the red positive (+) wire from position J4 or T4 on non universal power modules, J1 on universal power modules, or from the thermo disc (located on the flue jacket) on integrated ignition modules. Discard wire. To determine which power module is installed, measure the power module cover. If it measures approximately 4 inches in height, this is a universal power module. If it is larger, it is a non universal or integrated ignition power module. See Step 41 on how to measure the cover.

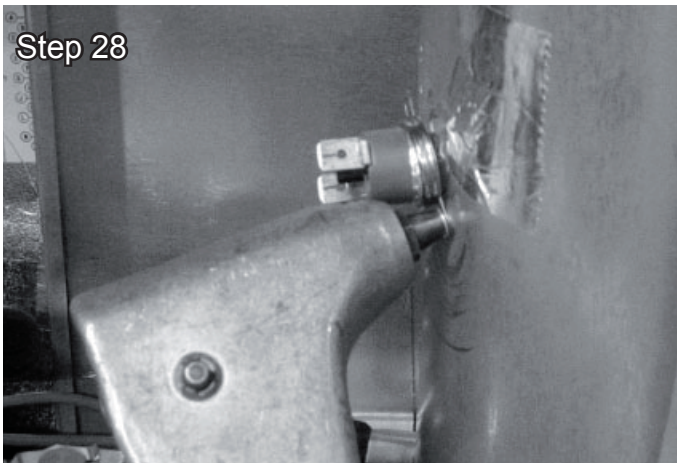


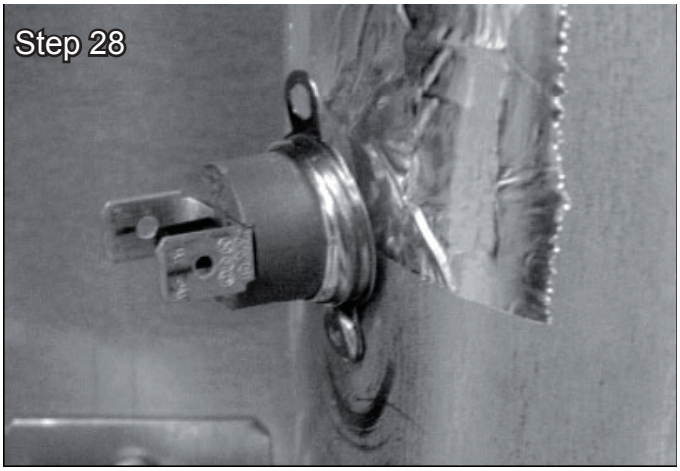
Step 27. Connect the uninsulated end of the thermal fuse, Item (13) to the positive (+) connection on the back side of 12 VDC terminal block.

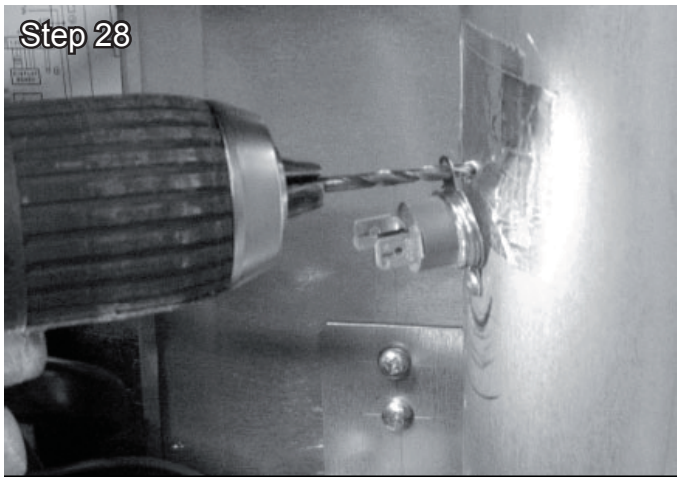




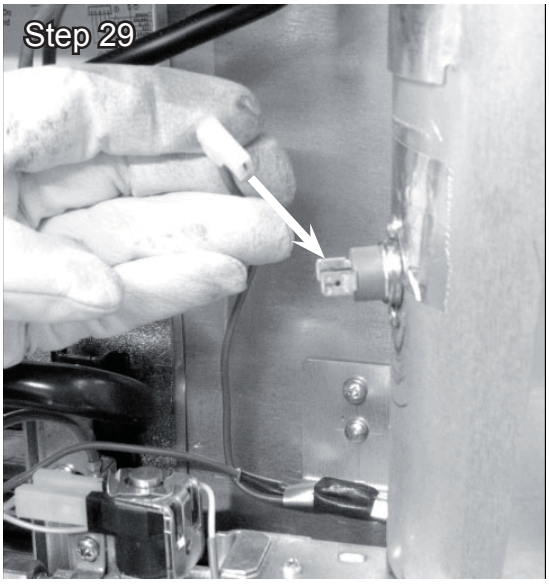
Step 28. If a thermo disc is not already present on the flue jacket, install the thermo disc, Item (7), using two pop rivets, Item (8), and a pop rivet gun. Drill one or two holes in the embossed dimples in the flue jacket using the drill provided. There may be one hole already drilled in the embossed locations. If it has an existing hole fasten the thermo disc in this hole using one pop rivet. Then after drilling the second hole, fasten the thermo disc with the second pop rivet. Be careful not to dislodge the thermo disc from its holder.

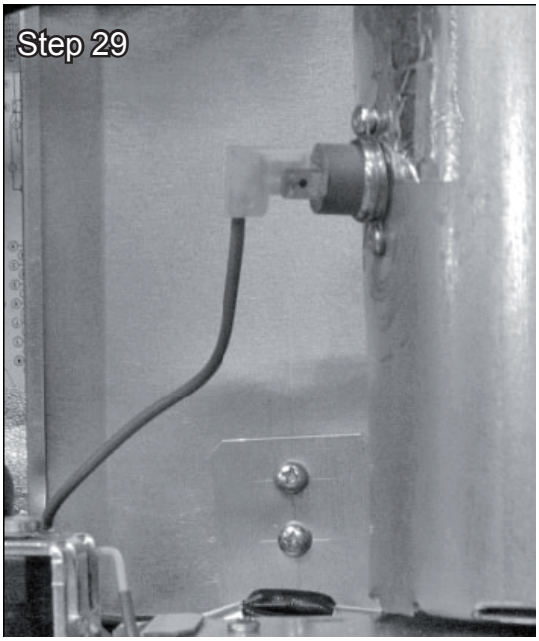




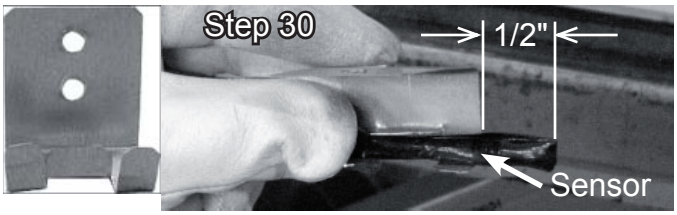


Step 29. Connect the end of the thermal fuse with the insulated flag, to one side of the thermo disc.



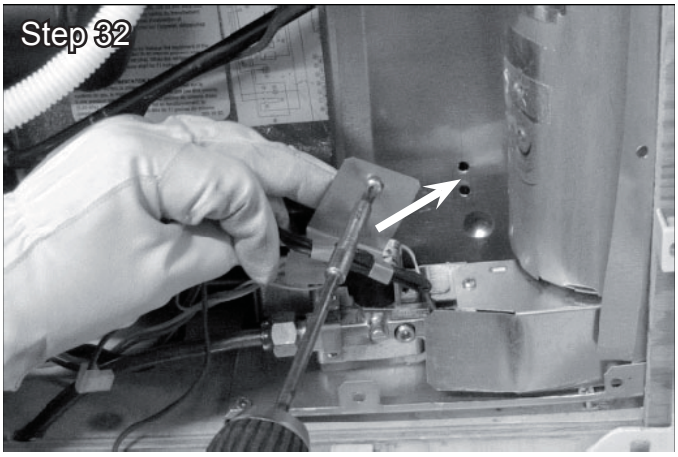


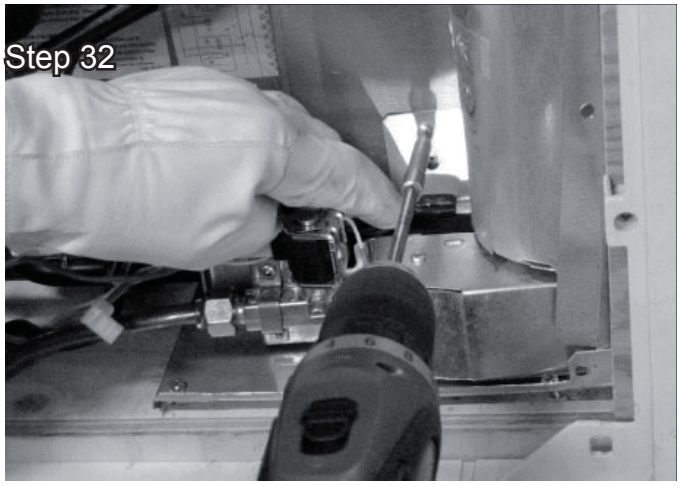
Step 30. Place the thermal fuse, Item (13), in the thermal fuse holder, Item (3), and make sure the sensor is located as shown in the photo. The thermal fuse should extend outside the securement tab by 1/2".



Step 31. Bend the two tabs on the holder to secure the thermal fuse.

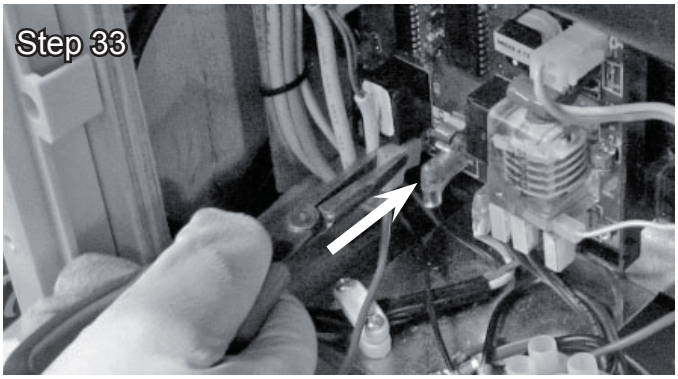
Step 32. Secure the holder to the new boiler cover with two (2) #8 x 3/8" screws, Item (11).



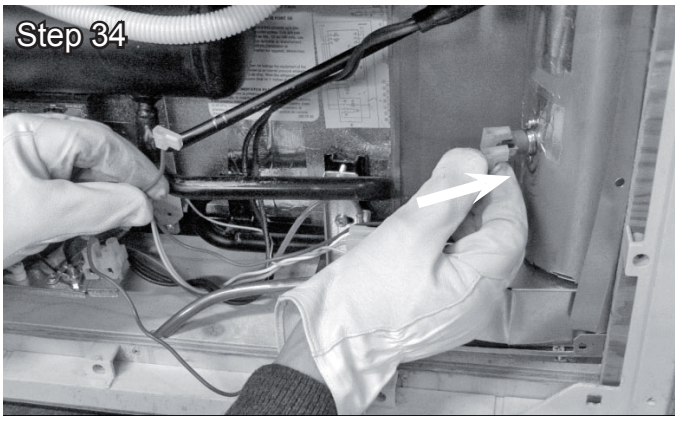


NOTE: For integrated ignition equipped models, proceed to step 36.

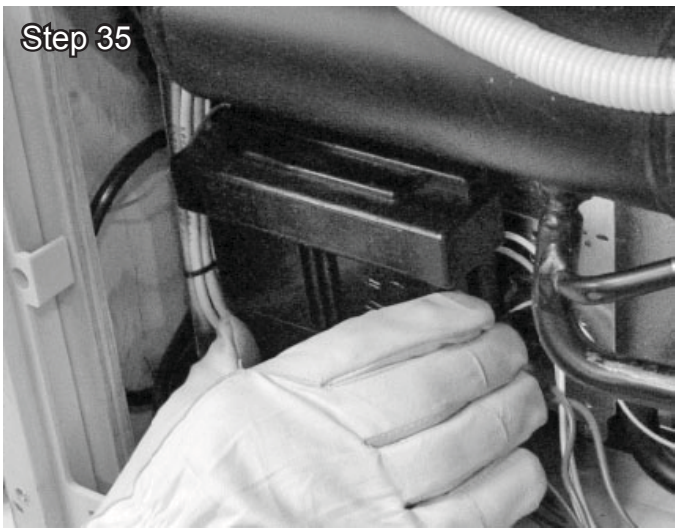
Step 33. Using a pair of pliers, connect one end of the supplied wire Item (12) to the J4 or T4 terminal on non universal power modules and J1 on universal power modules.



Step 34. Connect the provided wire, Item (12), to the other terminal on the thermo disc.

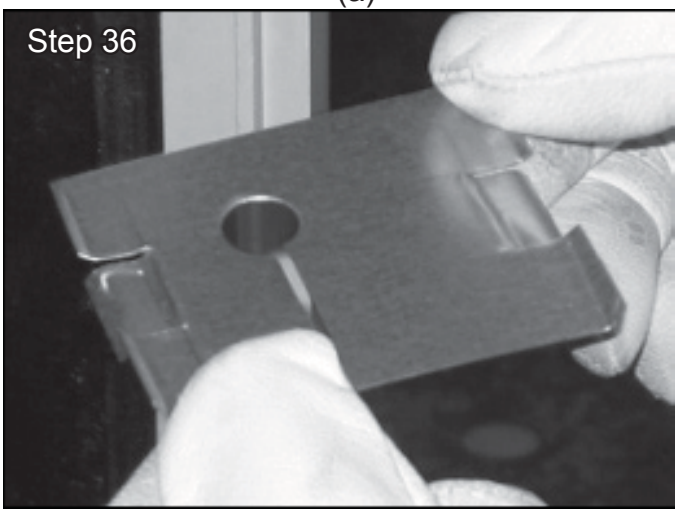


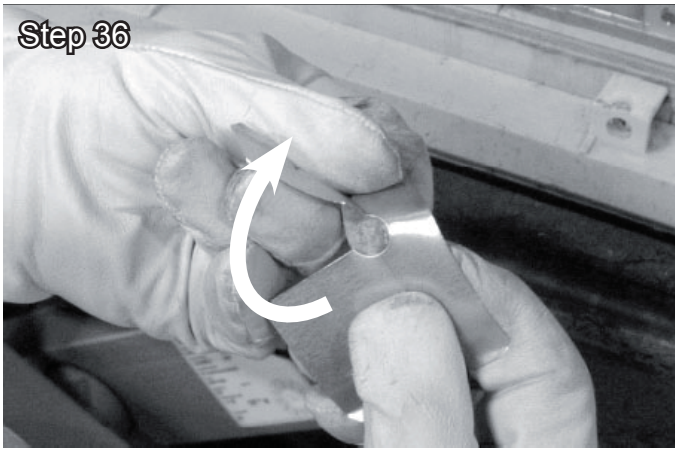
Step 35. If the power module cover was removed, snap it back in place. Replace the screw.



Step 36. Install the cover for the heating element, Item (4). Start by forming the cover (a) to fit into place (b). Insert the left tab and then the right (c). Press in with your fingers to make the cover fit as intended (d).

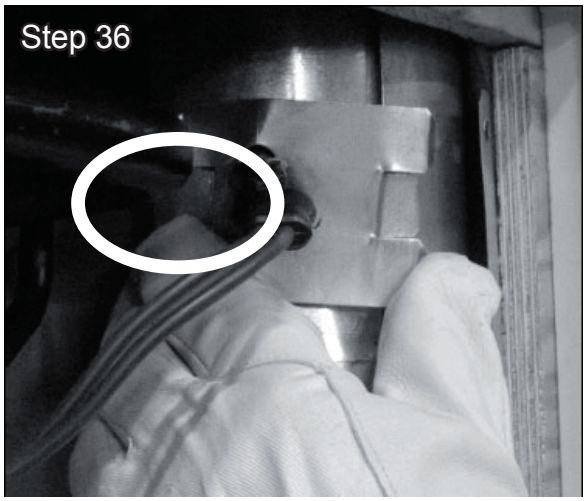
(a)

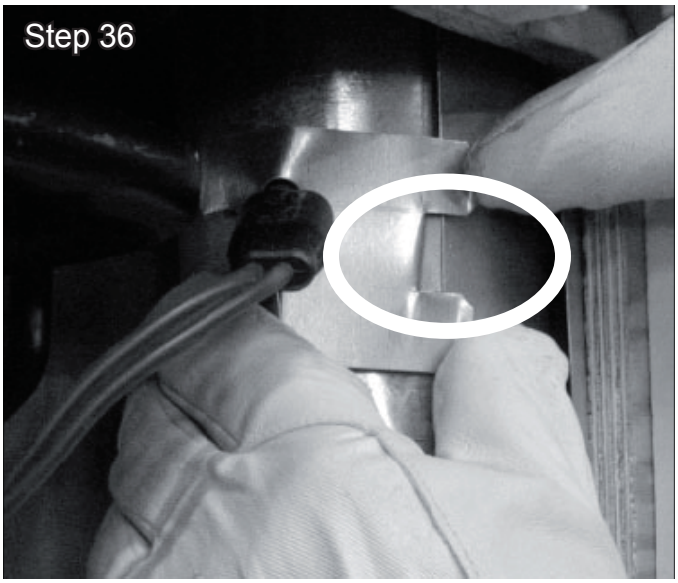




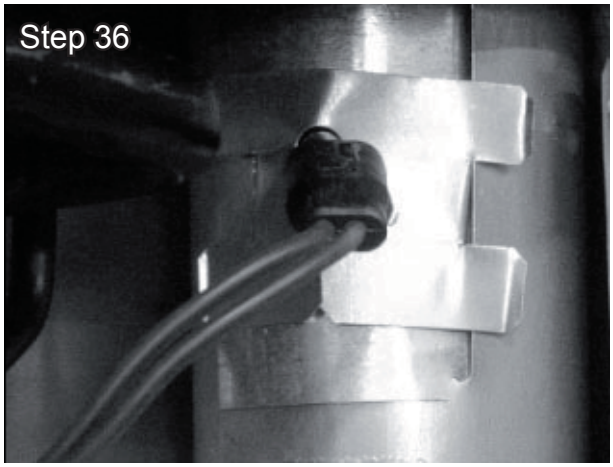
(b)

(c)





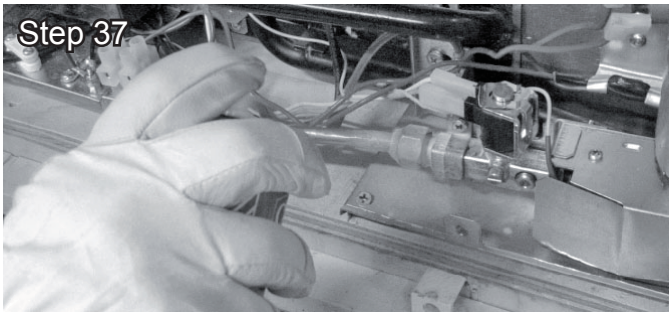
(d)



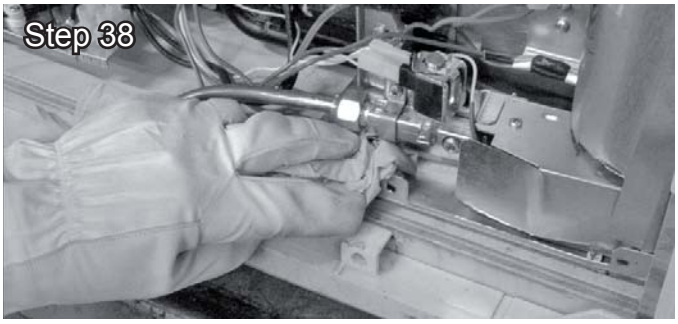
Step 37. Complete the pressure drop test using the calibrated manometer. If there is a continued loss of pressure check for gas leaks using a commercial leak detecting fluid. Leaks are indicated by the presence of bubbles. If a leak cannot be stopped by tightening, replace part.

⚠ WARNING

Personal injury hazard. If the RV continues to indicate a gas leak by the decay of a manometer, the leak must be repaired before the gas system is allowed to be left on. Do not operate the RV with an LP leak at any location on the system.

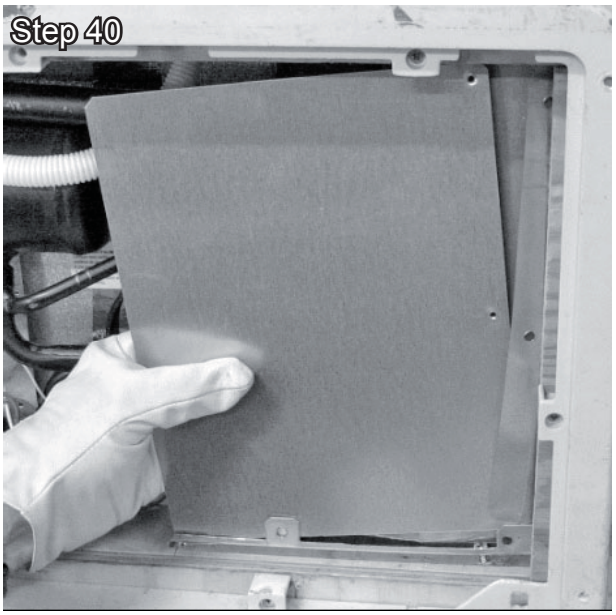


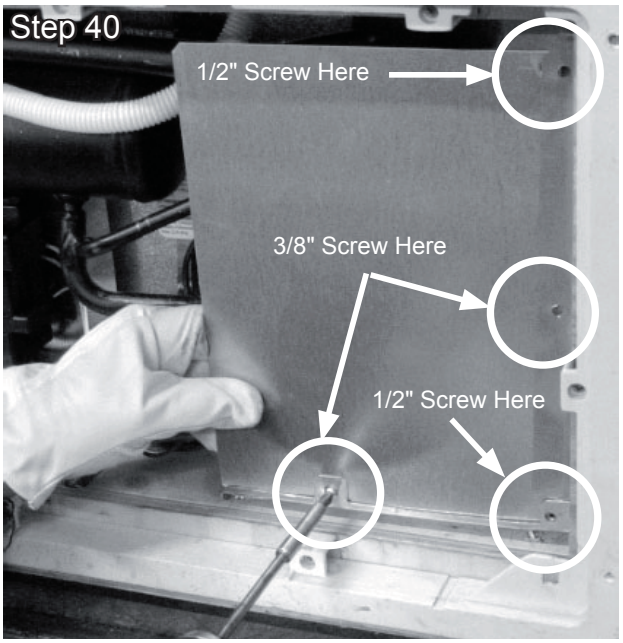
Step 38. Wipe dry with a paper towel.



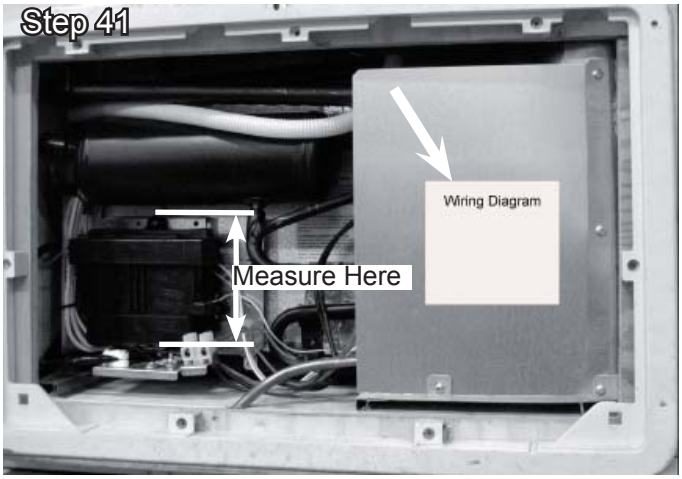
Step 39. Turn refrigerator “ON” and check operation on both electric and gas.

Step 40. Install the rear cover, Item (6). Align the holes in the boiler cover and the holes in the bottom plate with the rear cover holes and secure with two (2) # 8 x 3/8" screws, Item (11) and two (2) #8 x 1/2" screws, Item (10). Install the bottom corner fastener first with one (1) of the #8 x 1/2" screws and then the other #8 x 1/2" screw is to be installed at the top location. If it is difficult lining up the holes in the rear cover and the bottom plate, it may be necessary to relocate the bottom plate to facilitate the installation of the back cover.





Step 41. Place the appropriate wiring diagram, Item (15), on the outside center of the rear cover. If your power module cover measures approximately 4 inches (universal power module) use wiring diagram 3311221.000. If it is larger than 4 inches in height use 3311211.000 (non-universal power module) or 3312755.000 (integrated ignition power module) based on whether you removed the power module cover to complete the connections. If you did not remove the cover, it is an integrated ignition power module (3312755.000). This measurement includes the mounting tab. Rear cover must be free of oil and moisture. Clean with a suitable cleaner and wipe dry.

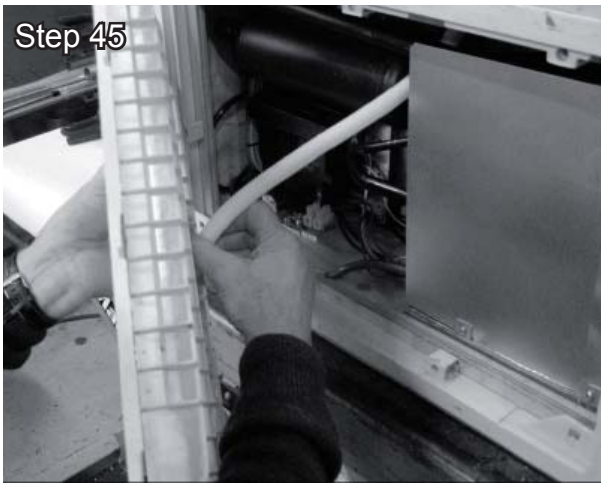


Step 42. Carefully remove the wire nut that was installed on the 12 VDC Positive (+) power supply wire in step 23 and reconnect it to the 12 VDC terminal block..

Step 43. Reconnect 12 VDC power supply at source.

Step 44. Plug the refrigerator 120 VAC power cord into wall receptacle.

Step 45. Reinstall the refrigerator lower side vent access door. Make sure the drain water hose is in its right position. Before leaving, please check that the access door is securely engaged.



The service kit installation is now complete.