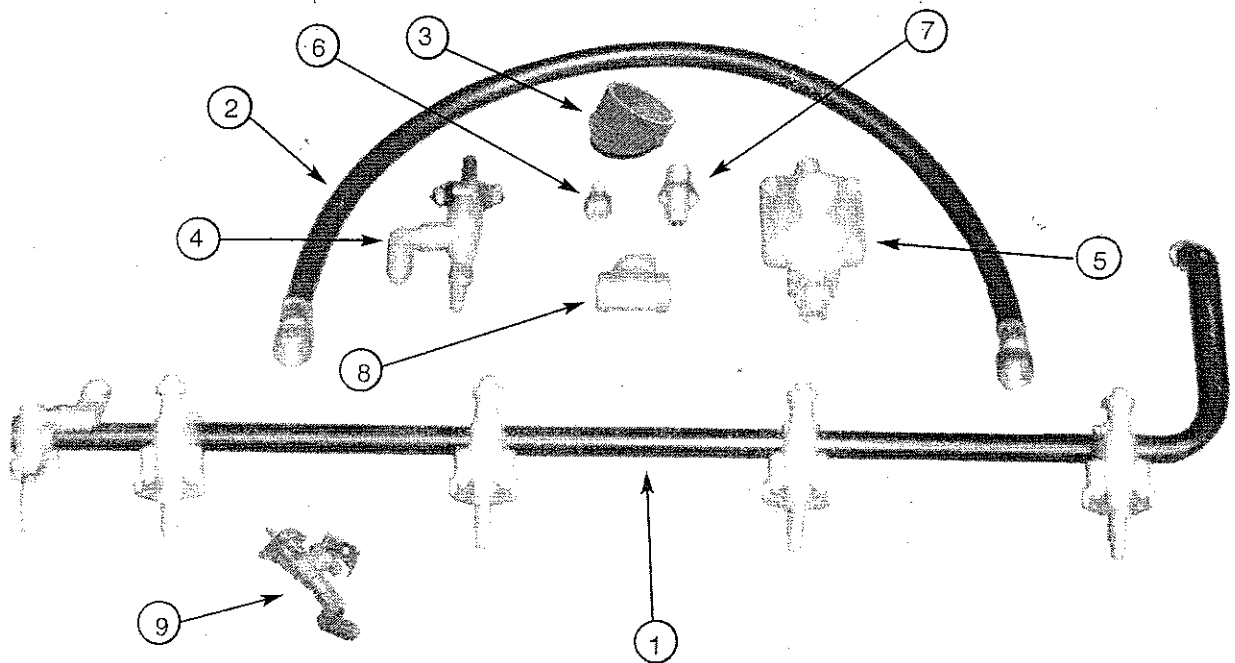


AMANA 33 Natural Gas Conversion Manual

FOR OUTDOOR USE ONLY



Part No.	Qty	Description
1	RCOZZ00170A	1 Main Burner Valve & Manifold Assembly (NG)
2	RCOZZ00103A	1 Hose 27" - 3/8" Flare Both Ends for Side Burner (NG)
3	RPAZZ00002A	1 Thread Sealing Tape
4	RCOZZ00149A	1 Side Burner Valve Assembly - 12K BTU (NG)
5	RCOZZ00117A	1 NG Regulator 3/8" NPT x 3/8" UNF
6	RCODZ00026A	1 Orifice Back IR NG"
7	RCOAZ00021A	1 Tee Fitting - Galvanized 3/8" UNF
8	RCODZ00024A	1 Connector 3/8" NPT x 3/8" UNF
9	RCODZ00038A	1 Back IR Valve without Thermocouple (NG)



NOTE: Images in this manual may differ slightly from your grill.

Notice - Before you Begin

This conversion kit will work on 2 different version of grills, you will need to identify your version before you begin.

Open the hood of your grill and look at the left side of the back IR burner:

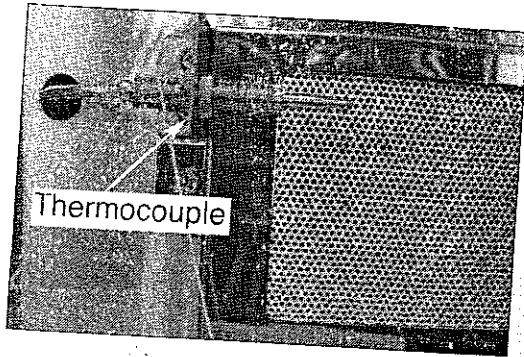


Fig a

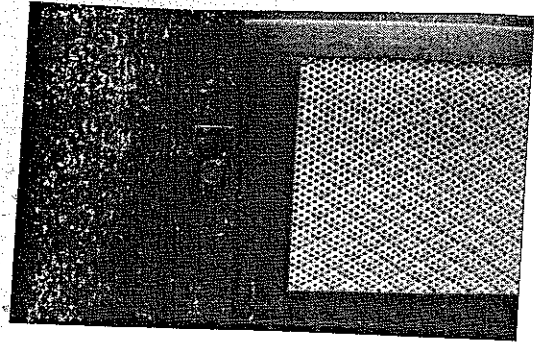


Fig b

Does your grill look like Fig a or Fig b.

If your grill looks like fig a - you may begin your conversion with the supplied manifold.

If your grill looks like fig b - you must change the back IR valve on the supplied manifold with the separate valve included in this kit, follow the steps below.

1. Take the NG manifold supplied in this kit and remove the back IR valve by removing the 2 screws as shown in Fig c.
2. Install the separate back IR valve included in this kit onto the manifold where the other valve was removed. Make sure to install the valve with the stem facing the same direction as the other valves.

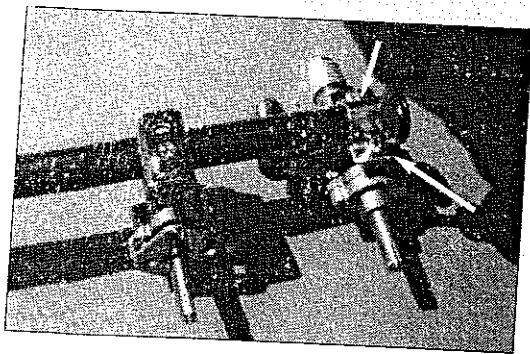


Fig.c

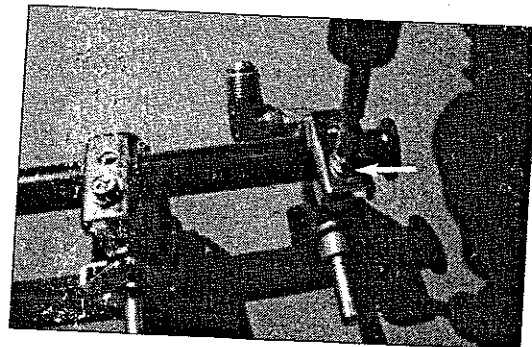


Fig d

Warning! Make sure to do a thorough leak test on this valve after installation in your grill.

AM 33 Natural Gas Conversion Instructions

Tools Needed:

Phillips head screwdriver
3/4" wrench
1/4" wrench or socket
9/16" wrench
Adjustable wrench

* 1/4" socket set with extension can also be used.

Be sure gas supply is off, the knobs are in the off position and the grill is cool.

1. Use a 3/4" wrench disconnect the hose from the side burner valve and pull the hose back into the cart. (See Fig. 1)
2. Use a 3/4" wrench disconnect the other hose from the manifold. (See Fig. 2)
3. Remove cooking grates and flavor grids. (See Fig. 3)
4. Using a 1/4" socket remove the screws holding the rear heat shield and burners in place. (See Fig. 4)
5. Remove the (8) screws holding the front heat shield in place. (See Fig. 5)
6. Lift the front heat shield out of the grill. (See Fig. 6)

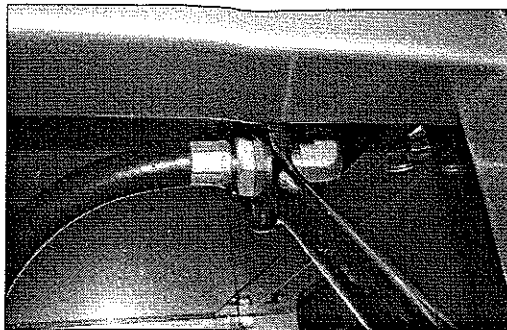


Fig 2

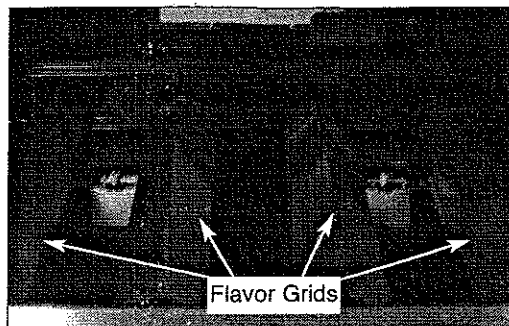


Fig 3

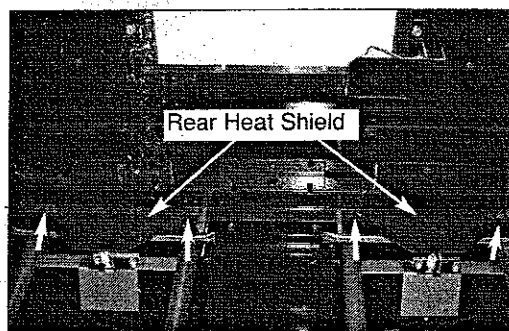


Fig 4

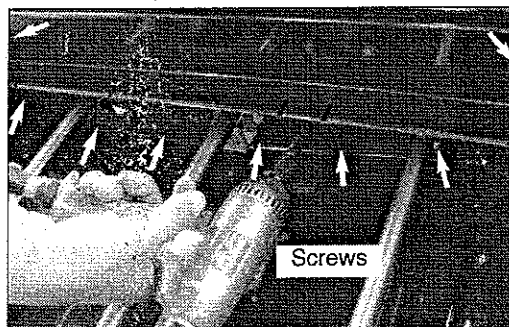


Fig 5

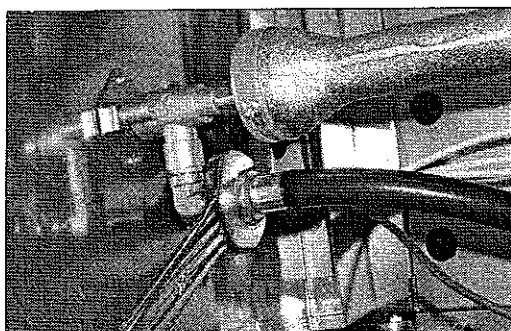


Fig 1

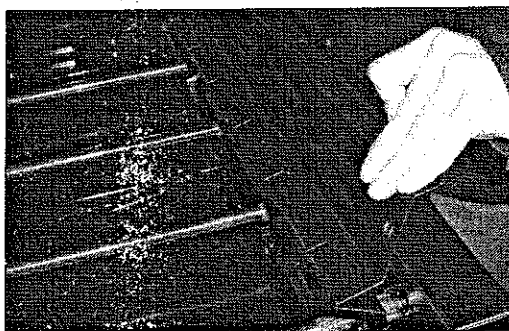


Fig 6

AM 33 Natural Gas Conversion Instructions

7. Disconnect the wires from the main burner igniter. (See Fig. 7)

NOTE: Make sure the wire does not fall into the access hole.

8. Angle the main burner up, and set it in the firebox. (See Fig. 8)

NOTE: If there is a thermocouple at the left side of the back IR burner on your grill, proceed with the following steps 9&10, If not, skip to step #11.

9. There is a connector for the thermocouple on the back IR control valve. You will find it after you remove the front heat shield during step 6 on page 2. (See Fig. 9)

10. Use a 1/4" wrench to disconnect the thermocouple connector from the valve. (See Fig. 10)

11. Use a 3/4" wrench to disconnect the flex line from the Back IR Valve. (See Fig. 11)

12. Remove all the knobs, set the knobs aside. (See Fig. 12)

13. Remove the screws holding the main burner knob bezels to the front face and remove the bezels. (See Fig. 12)

14. Hold the manifold, slightly move it to the right and lift the left end out. (See Fig. 13)

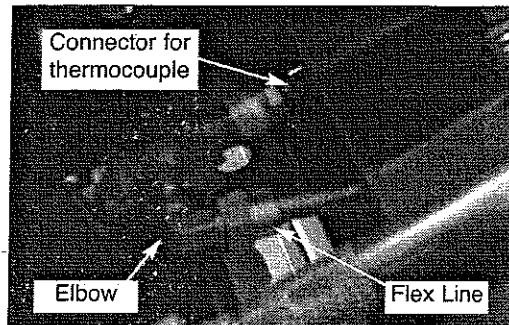


Fig 9

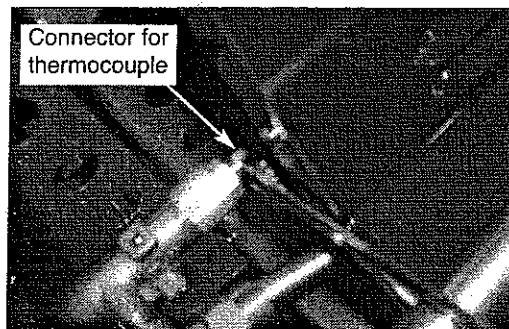


Fig 10

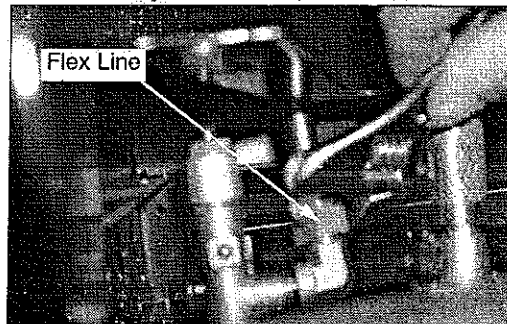


Fig 11

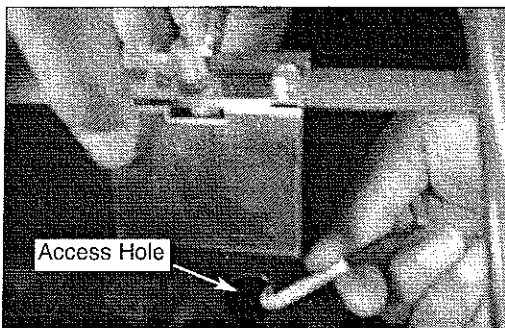


Fig 7

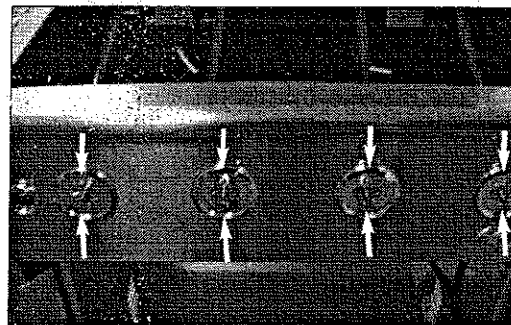


Fig 12

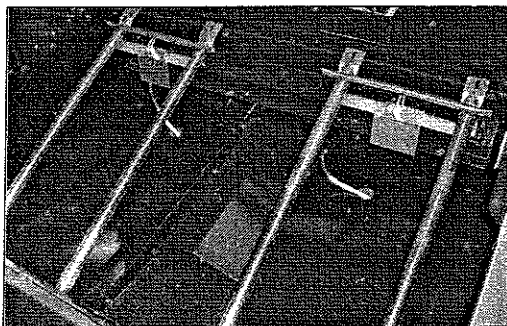


Fig 8

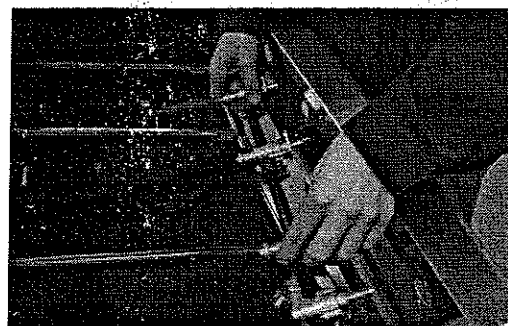


Fig 13

AM 33 Natural Gas Conversion Instructions

15. Lift the left end of the manifold up, carefully remove the manifold out of the grill. (See Fig. 14)

You are now ready to install the new NG manifold.

16. Start by placing the new manifold into the grill body with the control knob stems facing outward through control panel front. (See Fig. 15)

NOTE: If there is a thermocouple at the left side of the back IR burner on your grill, proceed with the following steps 17&18, If not, skip to step #19.

17. Connect the thermocouple connector to the valve hand tight. (See Fig. 16)

18. Tighten the connector to the valve only 1/4 turn with a 1/4" wrench. (see Fig. 10 on previous page)

Note: The thermocouple must be tighten only 1/4 turn with a wrench. Overtightening will cause the thermocouple not to work properly.

19. Connect the flex line to the valve with a 3/4" wrench. (See Fig. 11 on previous page)

20. Reattach the bezels to the manifold with the screws removed in Step 11. Make sure that "off" is facing up on the bezel. (See Fig. 12 on previous page)

21. Reattach the control knobs onto the manifold stems, making sure the arrows are facing upwards.

22. Connect the igniter wires to the igniter. (See Fig. 7 on previous page)

23. Reinstall burners into the grill body. Line up the burners with the valves on the manifold, making sure the orifice of the valve slide into the burners. (See Fig. 17)

24. Use the screws removed in step 4 to secure the rear heat shields and burners in place. (See Fig. 4 on page 2)

25. At this point of the conversion, a leak test should be performed on all fittings. See Use and Care manual for leak testing procedure.

26. Proceed with reattaching the front heat shield. (See Fig. 6 and 5 on page 2)

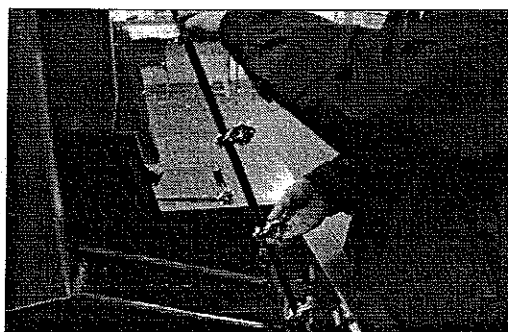


Fig 14

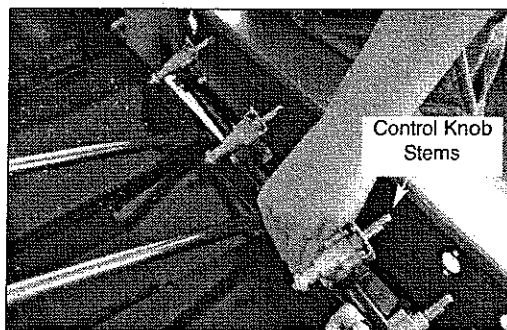


Fig 15

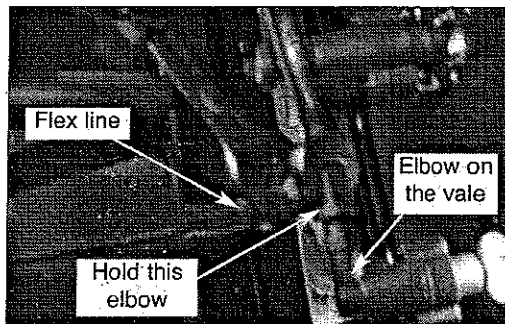


Fig 16

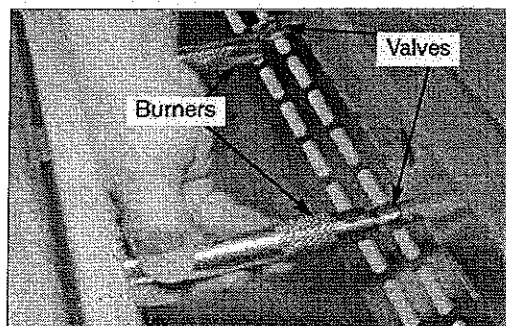


Fig 17

AM 33 Natural Gas Conversion Instructions

27. Reinstall the flavor grids. (See Fig. 3 on page 2)

24. Reinstall the cooking grates

Installing the NG regulator

NOTE: Make sure to use supplied pipe sealant on all non-flared fittings.

1. Attach the tee fitting to the manifold as shown. Tighten with wrench. Make sure the "T" is facing to the left. (See Fig. 18)

2. Attach the Connector-3/8" NPT x 3/8" UNF to the tee fitting as shown. Tighten with wrench. (See Fig. 19)

3. Attach the NG regulator to the tee fitting. (See Fig. 20)

4. Attach one end of the supplied hose to the flare fitting on the side of the tee connector. (See Fig. 21)

The other end of the hose will be attached to the side burner later.

Note: pay attention to arrow on the NG regulator indicating direction of gas flow. The arrow should point toward the

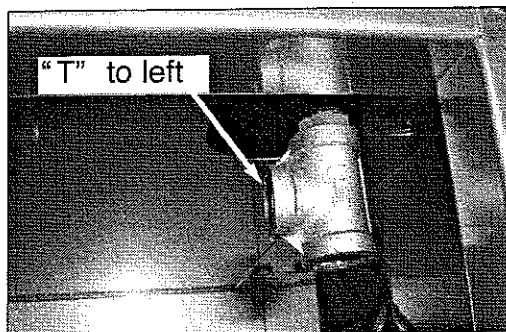


Fig 18

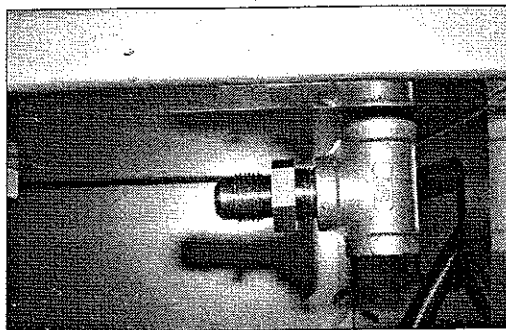


Fig 19

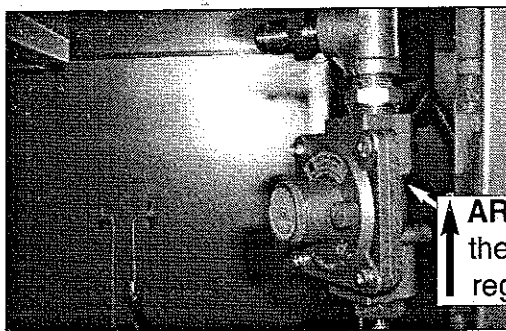


Fig 20

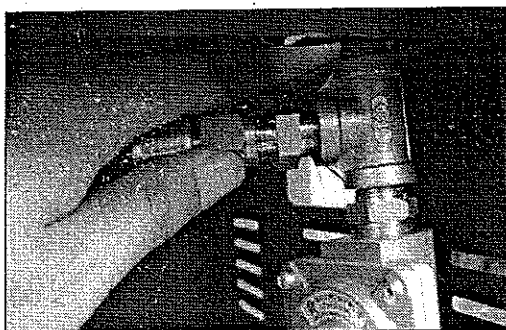


Fig 21

AM 33 Natural Gas Conversion Instructions

grill.

Remember to apply pipe sealant to all non-flared fittings!
This completes the NG regulator installation.

Converting the Side Burner to NG

1. Remove the side burner knob. (See Fig. 22)
2. Remove the (2) screws holding the side burner bezel and valve. (See Fig. 22)
3. Carefully insert the valve assembly into the cast burner. You will need to angle the tube into the burner assembly. Then pull the valve stem out from the opening in the front of the side burner shelf and remove. (See Fig. 24)
4. Carefully insert the valve assembly into the cast burner. You will need to angle the tube into the burner assembly. Then push the valve stem out through the opening in the front of the side burner shelf assembly. (See Fig. 24-25)
5. Reattach the bezel to the front of the side burner and the NG valve assembly with the screws previously removed. (See Fig. 22).
Note: Make sure the bezel is installed with "OFF" facing up.
6. Reattach the control knob.
7. Carefully run the supplied hose from the inside of the cart through the grommated hole in the cart side to the side burner assembly. Connect the end of the hose to the NG valve

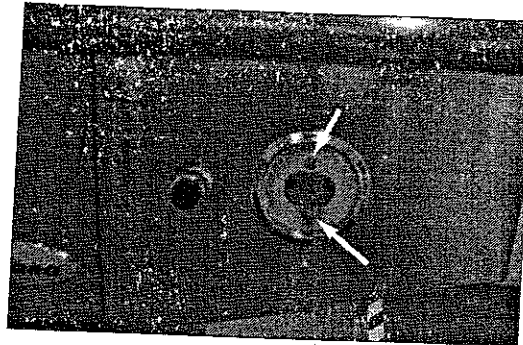


Fig 22

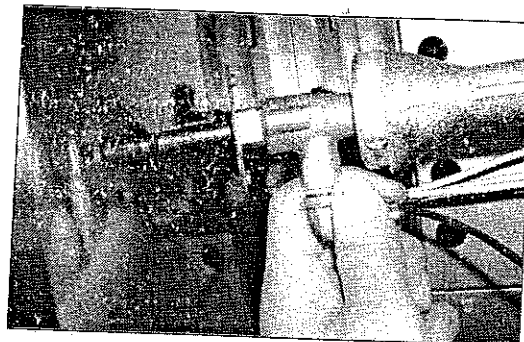


Fig 23

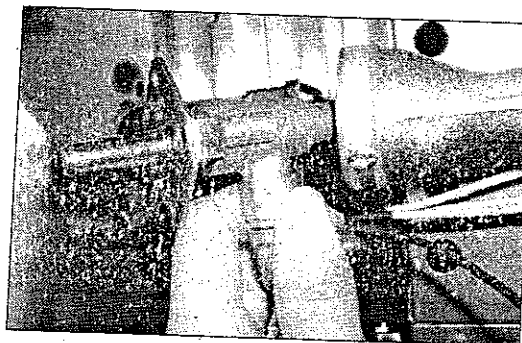


Fig 24

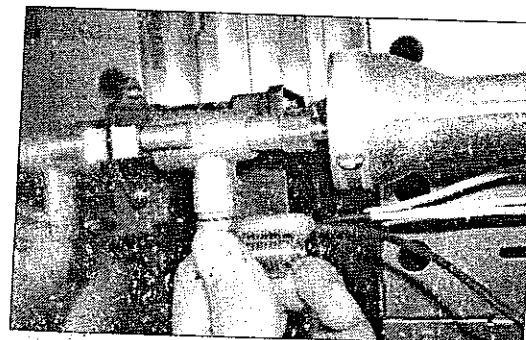


Fig 25

AM33 Natural Gas Conversion Instructions

assembly.
(See Fig. 1 on page 2).

This completes the side burner conversion.

Converting the Rear Infrared Burner to NG

1. Remove the bread warmer shelf.
2. Remove the six (6) screws on the inside of the grill that hold the rear infrared cover in place.
(See Fig. 26)
3. Grasp rear infrared cover, lift and remove it from the grill. (See Fig. 27)
4. Use the 9/16" wrench to remove the LP orifice. (See Fig. 28)
5. Install the NG orifice. (See Fig. 28)
6. Place the rear infrared cover back and use the screws removed in step 1 to secure it to the hood support. (See Fig. 26)

Note: At the completion of the conversion, a leaktest should be performed on all fittings. See Use and Care manual for leak testing procedure.

Installation is now complete.
Enjoy your grill safely.

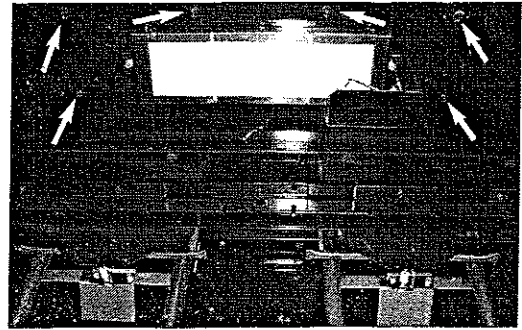


Fig 26

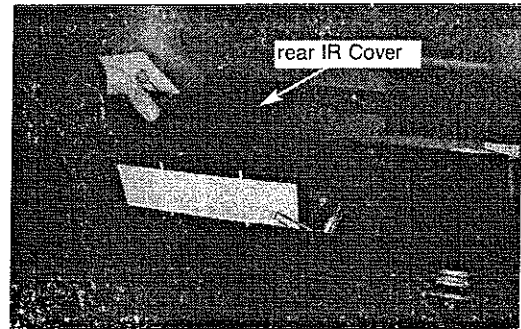


Fig 27

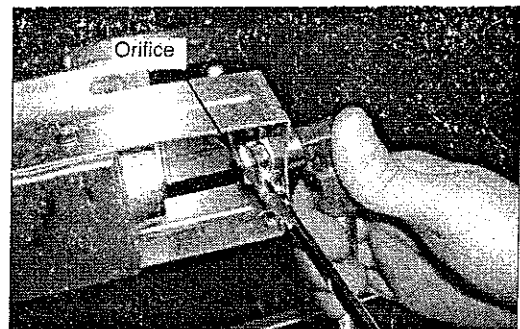


Fig 28

Conversion Kit Assembly Picture

