



# Cascade Natural Gas Conversion Instructions

## Tools Needed:

Phillips head screwdriver  
3/4" wrench  
1/4" wrench or socket  
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 phillips head screwdriver to loosen the back two screws holding the left side shelf on the grill left side. (See Fig. 2)

3. Using a 1/4" socket remove the front self tapping screw holding the left side shelf on the left side of the grill. (See Fig. 3)

4. Place something inside the roll top grill hood to leave the hood propped open slightly. (See Fig. 4)

5. Lift the left side shelf, let the front two hooks slide out of the two slots on the left side of the grill front face. Then remove the left side shelf. (See Fig. 5)

6. Disconnect the igniter wires from the igniter module. (See Fig. 6)

**Note: Don't remove the top two wires.**

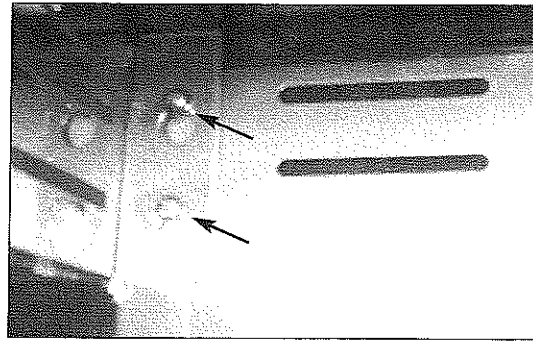


Fig 2

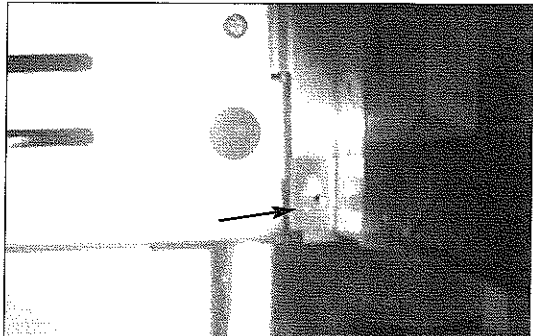


Fig 3



Fig 4

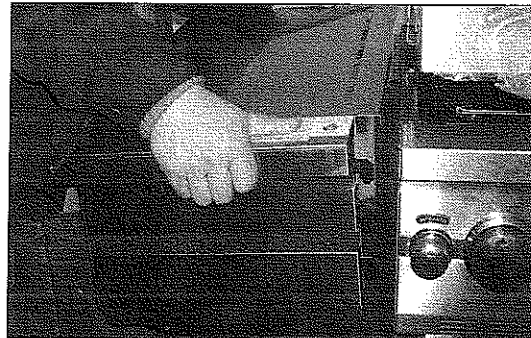


Fig 5

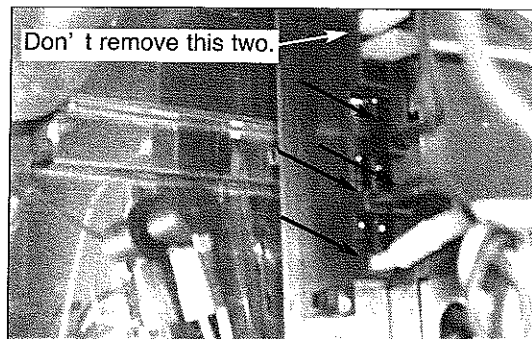


Fig 6

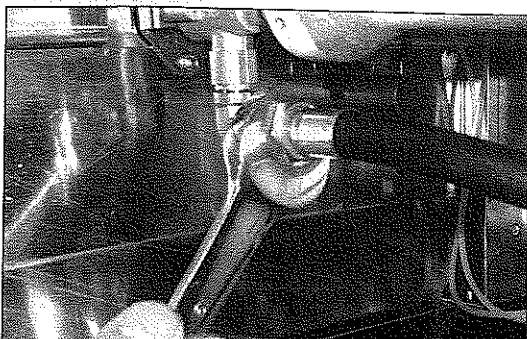


Fig 1

# Cascade Natural Gas Conversion Instructions

7. Use a phillips head screwdriver to loosen the back two screws holding the right side shelf on the right side of the grill. (See Fig. 7)

8. Using a 1/4" socket remove the front self tapping screw holding the right side shelf on the right side of the grill. (See Fig. 8)

9. Lift the right side shelf, let the front two inserts slide out of the two slots on the right side of the grill front face. Then remove the right side shelf. (See Fig. 9)

10. Remove all the knobs, set the knobs aside. (See Fig. 10)

11. Remove the two phillips head screws and one self tapping screw holding the front face on the grill right side. (See Fig. 11)

12. Remove the two phillips head screws and one self tapping screw holding the front face on the grill left side. (See Fig. 12)

13. Lift the front face slightly and let the inserts on the side of the front face slide out of the slots on the grill sides. (See Fig. 13)

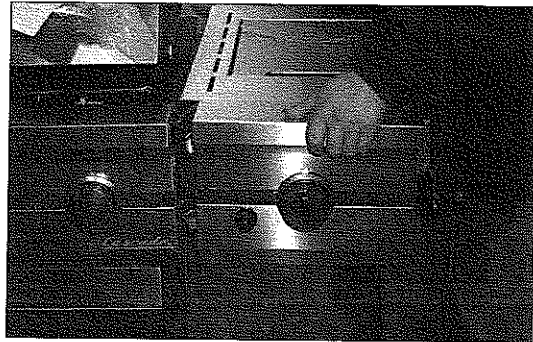


Fig 9

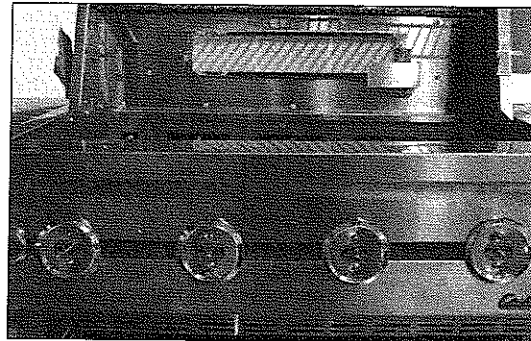


Fig 10

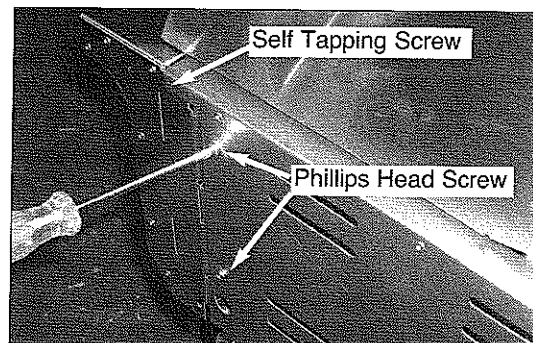


Fig 11

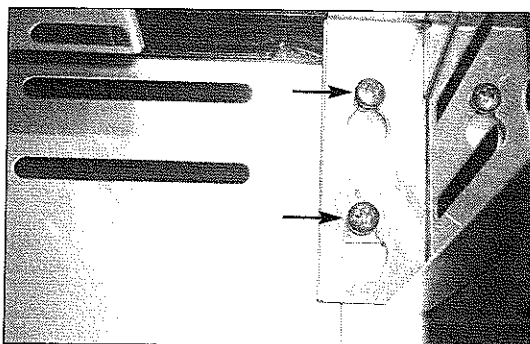


Fig 7

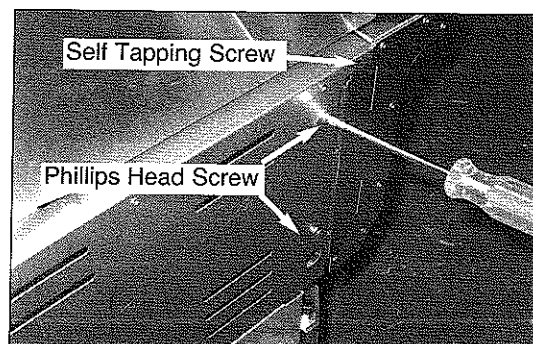


Fig 12

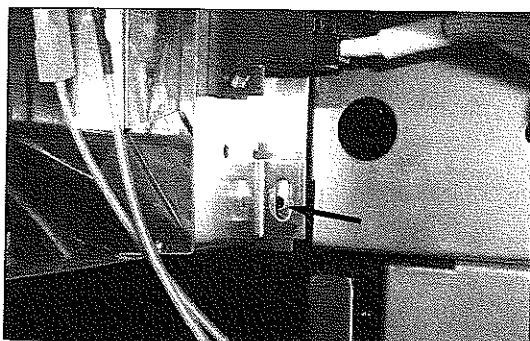


Fig 8

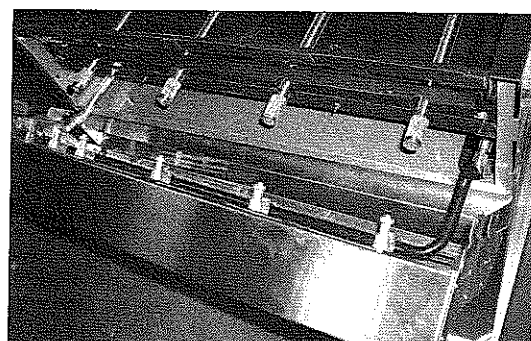


Fig 13

# Cascade Natural Gas Conversion Instructions

14. Pull the front face out a little, use a 3/4" wrench disconnect the regulator hose from the manifold. (See Fig. 14)

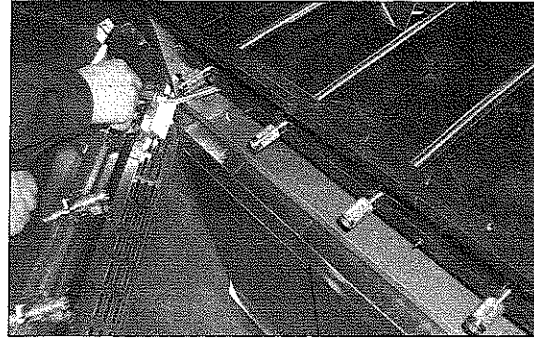


Fig 15

15. Hold the elbow on the rear IR burner valve and use a 3/4" wrench to disconnect the flex line from it. (See Fig. 15)

**Note: Be careful, applying pressure to the elbow of the valve may cause it to break.**

16. Take the front face down and use a phillips head screwdriver to remove the screws holding the main burner knob bezels to the front face and remove the bezels and the manifold. (See Fig. 16)

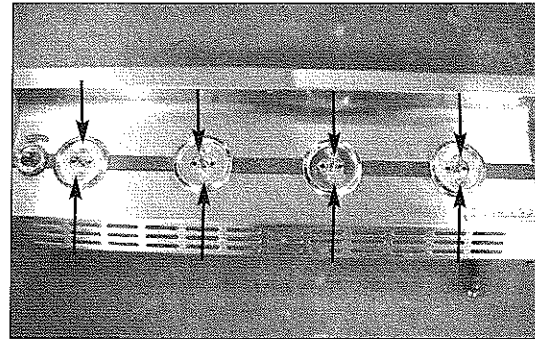


Fig 16

17. Place the new manifold into the front face, with the stems on the control valves into the holes on the front face.

18. Reattach the bezels to the manifold with the screws removed in step 16. (See Fig. 16)

**Note: Make sure the bezels are installed with "off" facing up.**

19. Lift the front face, let the right end of the manifold go through the opening on the grill head bottom. (See Fig. 17)

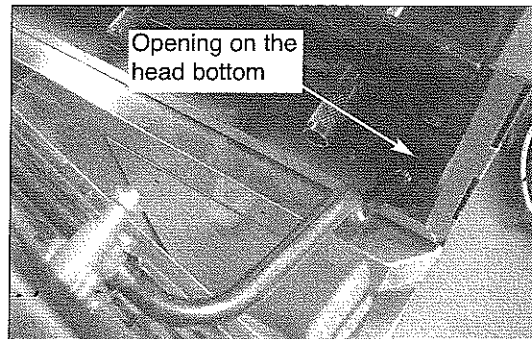


Fig 17

20. Attach the flex line to the rear IR burner valve by hand, then tighten with a 3/4" wrench. (See Fig. 18)

**Note: Be careful, applying pressure to the elbow of the valve may cause it to break.**

21. Place the front face back into the grill, adjust the main burner tubes to make sure all the orifice go into the tubes, then let the inserts on the front face sides slide into the slots on the grill sides. (See Fig 13)

**Note: Please make sure the orifice of the main burner valves slide into the main burner tubes. (See Fig. 19)**

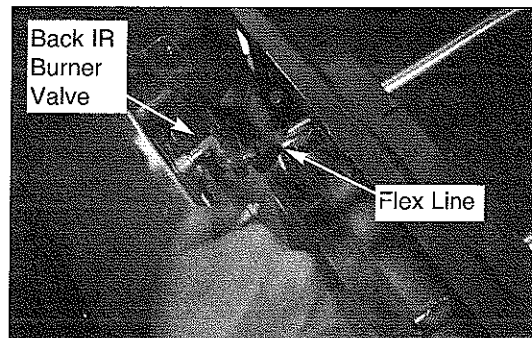


Fig 18

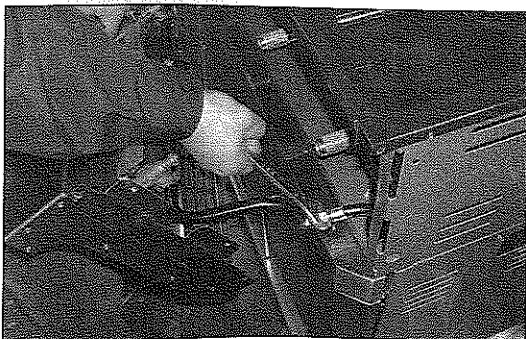


Fig 14

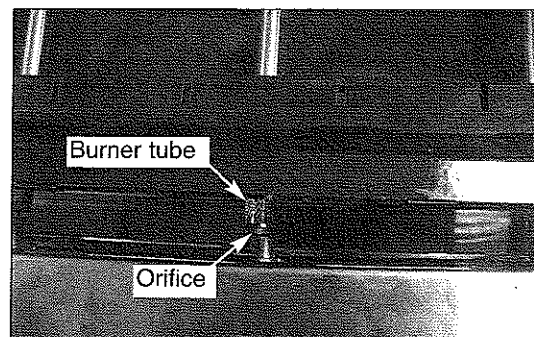


Fig 19

# Cascade Natural Gas Conversion Instructions

22. Reinstall the two phillips head screws and one self tapping screw removed in step 11 to secure the front face on the right side of the grill. (See Fig. 12 on page 3)

23. Reinstall the two phillips head screws and one self tapping screw removed in step 12 to secure the front face on the left side of the grill. (See Fig. 11 on page 3)

24. Reattach the control knobs onto the manifold stems with the arrows facing up.

## Installing the NG regulator

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

25. Attach the tee fitting to the manifold as shown. Tighten with wrench. (See Fig. 20)

26. Attach the Connector 3/8" NPT x 3/8" UNF to the tee fitting as shown. Tighten with wrench. (See Fig. 21)

27. Attach one end of the supplied hose to the flare fitting on the side of the tee connector. (See Fig. 22) The other end of the hose will be attached to the side burner later.

28. Attach the NG regulator to the tee fitting. (See Fig. 23)

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

**Remember to apply pipe sealant to all non-flared fittings!**

**This completes the NG regulator installation.**

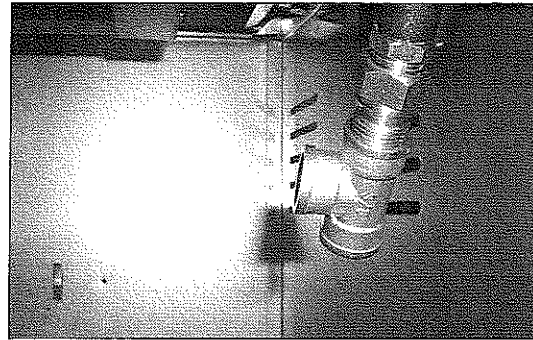


Fig 20

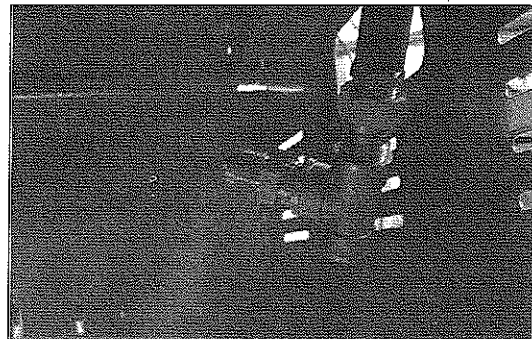


Fig 21

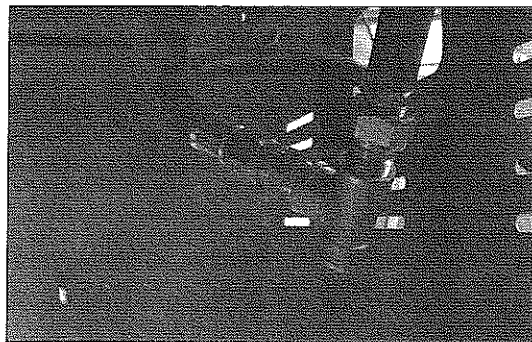


Fig 22

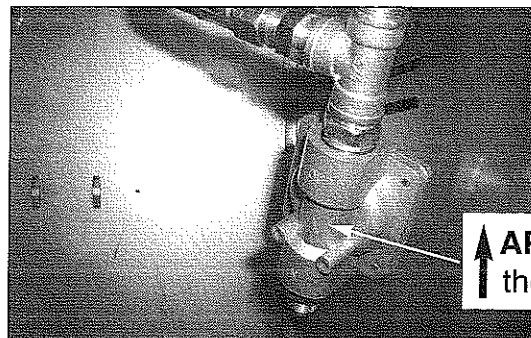


Fig 23

**↑ ARROW on the regulator**

# Cascade Natural Gas Conversion Instructions

## Converting the Side Burner to NG

29. Remove the side burner knob.

30. Remove the (2) screws holding the side burner bezel and valve. (See Fig. 24)

31. Carefully remove the valve assembly from the cast burner. You will need to angle the tube into the burner assembly. Then pull the valve stem out through the opening in the front of the side burner shelf assembly. (See Fig. 25)

32. Remove the old side burner valve and take the new NG valve. 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. 26-27)

33. Reattach the bezel to the front of the side burner and the NG valve assembly with the screws previously removed. (See Fig. 24).

**Note:** Make sure the bezel is installed with "OFF" facing up.

34. Place something inside the roll top grill hood to leave the hood propped open slightly.

35. Attach the right shelf by inserting the two shelf hooks into the slots on the right side of the front face and let the heads of the screws loosened in step 7 go through the holes on the back bracket of the right side shelf. (See Fig. 9 on page 3)

36. Press the shelf against the grill and press downward until the shelf locks in place. Make sure the top trim strip is hanging all the way inside of the grill before pressing downward.

37. Reattach the control knob.

38. Tighten the two screws on the back of the shelf. (See Fig. 7 on Page 3)

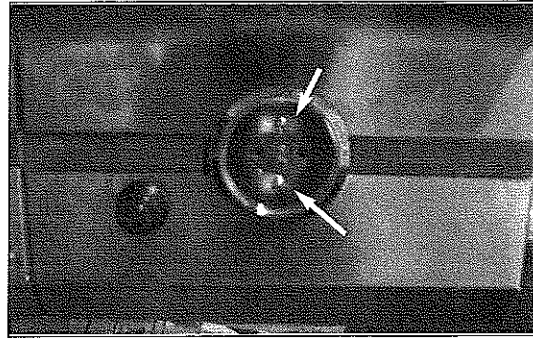


Fig 24

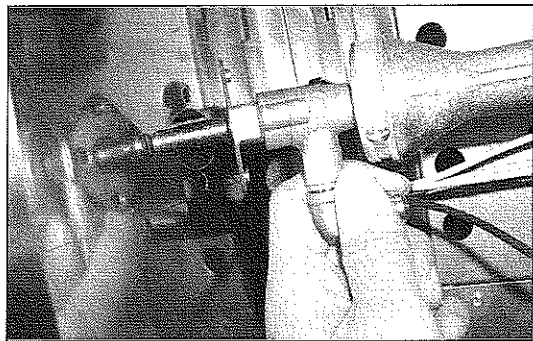


Fig 25

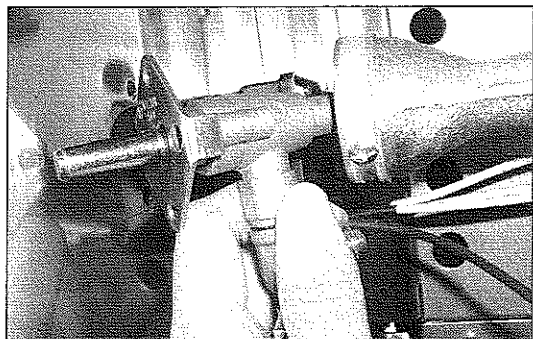


Fig 26

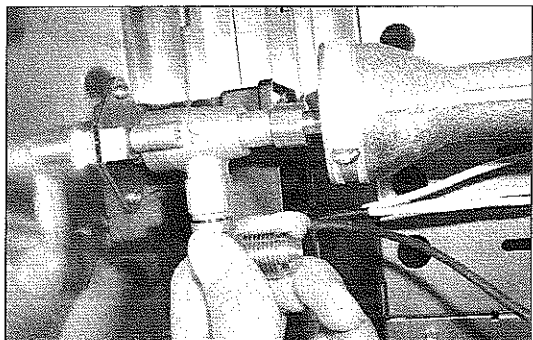


Fig 27

# Cascade Natural Gas Conversion Instructions

39. Reinstall the screw removed in step 10 to secure the front face of the right side shelf in position. (See Fig. 8 on Page 3)

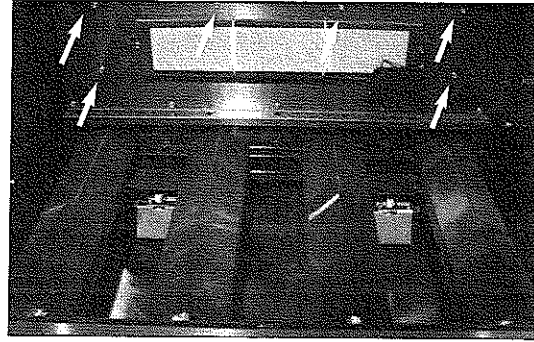


Fig 28

40. Attach the left shelf by inserting the two shelf hooks into the slots on the left side of the front face and let the heads of the screws loosened in step 2 go through the holes on the back bracket of the right side shelf. (See Fig. 5 on page 2)

41. Press the shelf against the grill and press downward until the shelf locks in place. Make sure the top trim strip is hanging all the way inside of the grill before pressing downward.

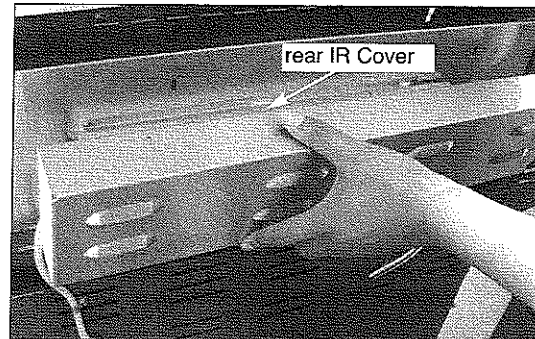


Fig 29

42. Tighten the two screws on the back of the shelf. (See Fig. 2 on Page 2)

43. Reinstall the screw removed in step 3 to secure the front face of the right side shelf in position. (See Fig. 3 on Page 2)

## Converting the Rear Infrared Burner to NG

44. Remove the six (6) screws on the inside of the grill that hold the rear infrared cover in place. (See Fig. 28)

45. Grasp rear infrared cover and remove it from the grill. (See Fig. 29)

46. Use the 9/16" wrench to remove the LP orifice. (See Fig. 30)

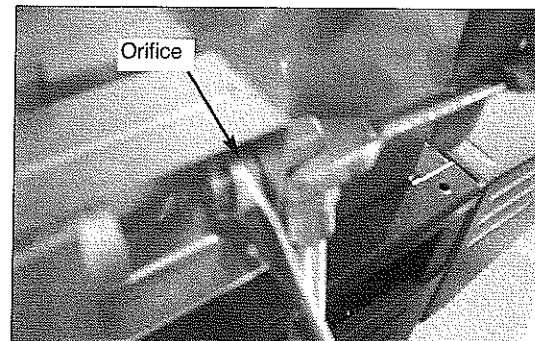


Fig 30

47. Install the NG orifice. (See Fig 30)

48. Place the rear infrared cover back and use the screws removed in step 44 to secure it on the hood support. (See Fig. 28)

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

**Installation is now complete.  
Enjoy your grill safely.**

# Cascade Natural Gas Conversion Instructions

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Conversion Kit Assembly Picture

