

# INSTALLATION INSTRUCTIONS

## For Vent Drain Kit NAHA001DK

used on N9MP1, N9MP2, \*9MPD, \*9MPT & \*9MPV Multi Position Gas Furnaces.

\* Denotes Brand (T, H or C)

Please read these instructions completely before attempting installation.

### Parts List for Plastic Bag

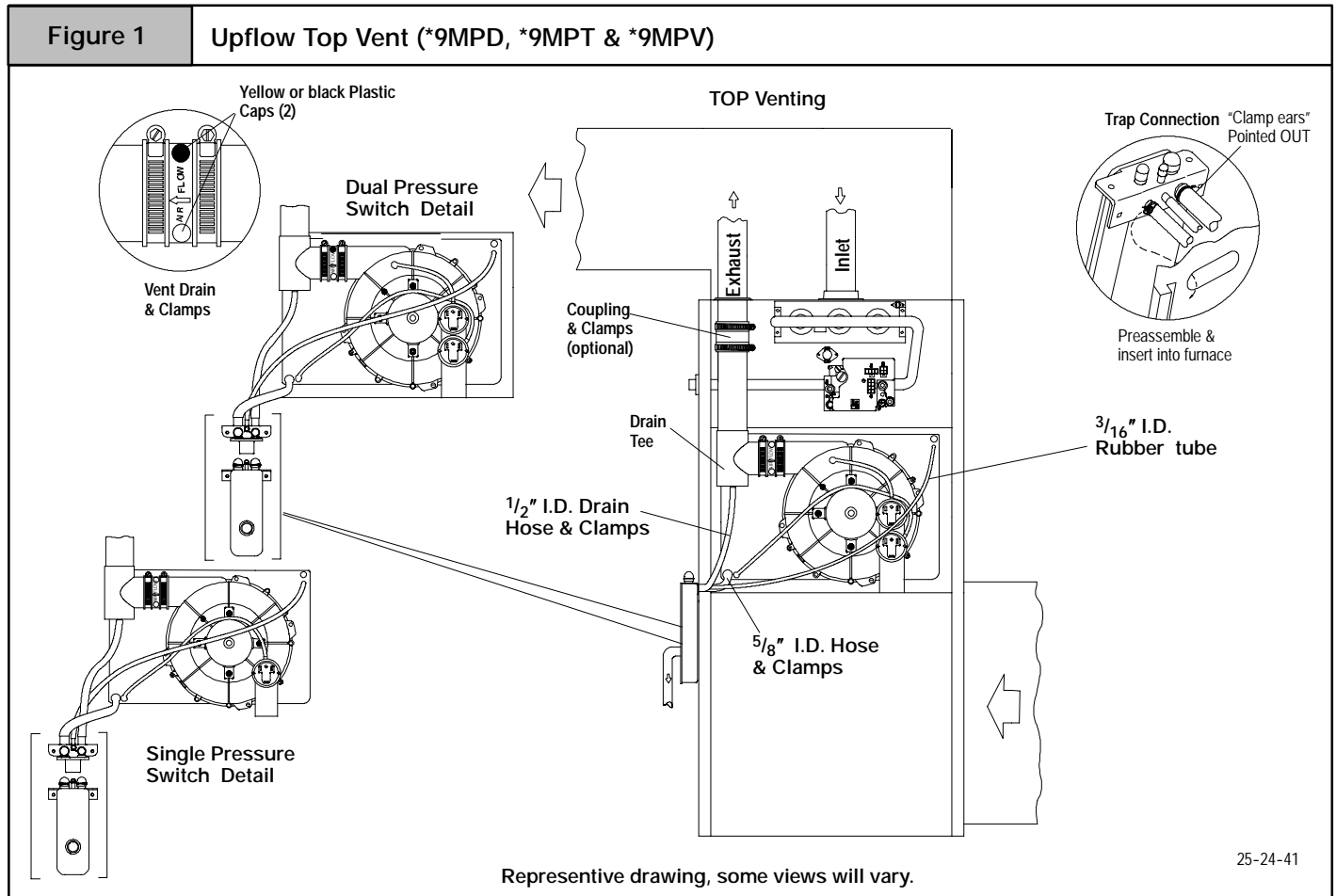
Description	Part#	Qty.
Coupling, Discharge	1002522	1
Clamp, Hose	1013830	2
Gasket, Trap	1013701	1
SMS, #8 X 1/2" Conical	1012537	2
Clamp, 5/8" ID	1012975	2
Clamp, 3/4" ID	1012976	2
Yellow or Black Cap (for #1014003)	1170893	2

USE THE PARTS IN THIS KIT. EQUIVALENT PARTS IN THE FURNACE MAY BE DISCARDED.

### Parts List for Carton

Description	Part#	Qty.
Plastic, Bag	1013402	1
Tube, Rubber 3/16" ID	1009238	1
Drain Tee	1171915	1
Drain Tee Trap	1171916	1
Trap, Condensate	1171917	1
Timprene Drain Hose 1/2" ID	1014358	1
Timprene Drain Hose 5/8" ID	1014359	1
Instructions, Drain Kit	441 06 1043 00	1
Drain, Vent	1014003	1

These instructions are a supplement to the *Installation Instructions* shipped with each furnace. Refer to these instructions for details on vent pipe sizing, maximum vent lengths, assembling the vent system and starting up the furnace.



### Upflow Top Vent (See Figure 1)

Replace and discard the Vent Drain shipped with the furnace if it is the black Fasco coupling. Replace with the gray Vent Drain shipped with the kit.

Attach the 1/2" ID drain hose from the bottom of the drain tee to the condensate trap and securely clamp.

Attach the 3/16" ID rubber tube from the top of the transition box to

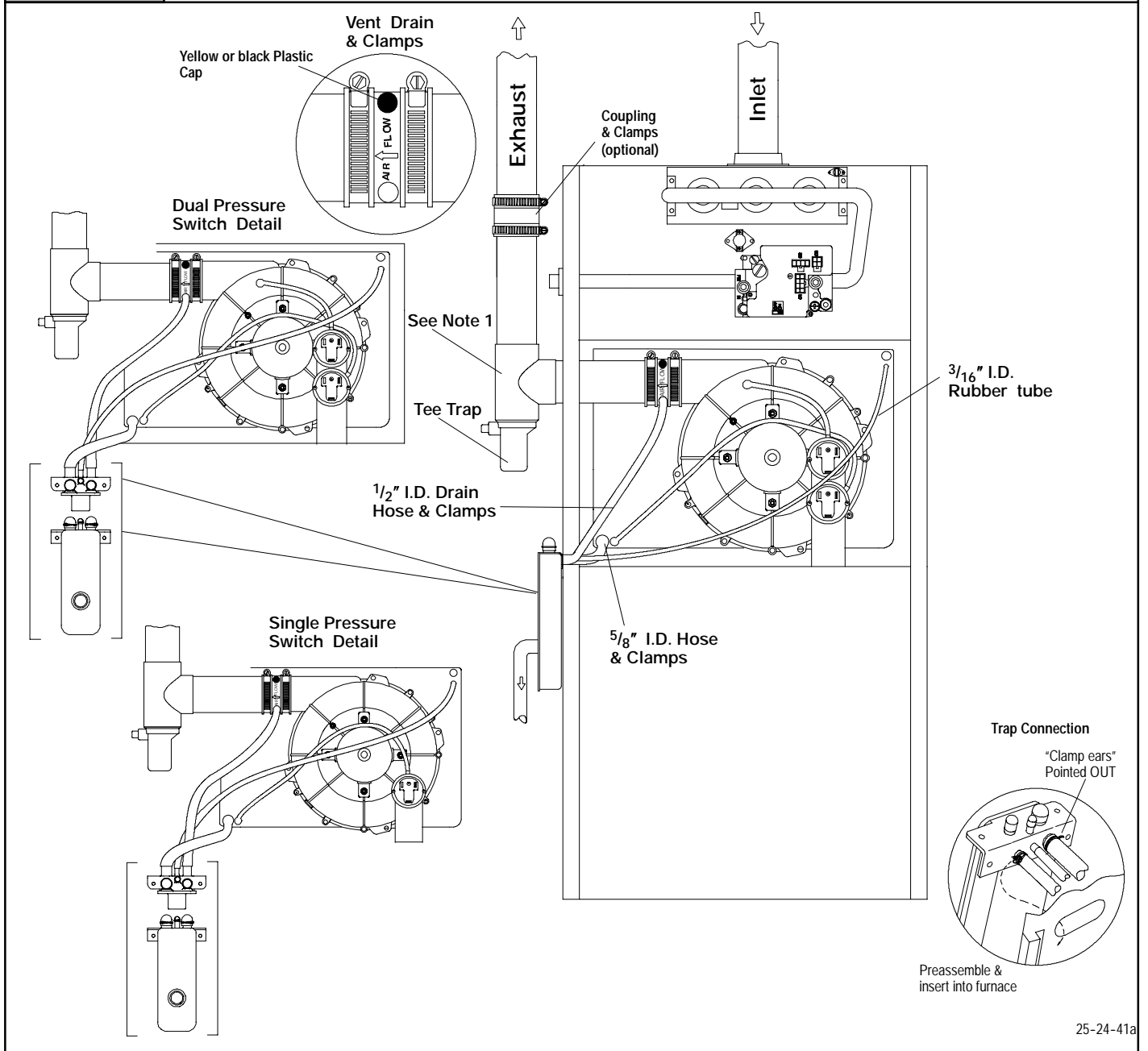
the drain trap.

Attach a Yellow or black cap to bottom port of vent drain and secure with clamp.

Attach the 5/8" ID hose from the bottom of the transition box to the drain trap and securely clamp.

Figure 2

Upflow Left Side Vent & Trap



**Upflow Left Side Vent (See Figure 2)**

Replace and discard the Vent Drain shipped with the furnace if it is the black Fasco coupling. Replace with the gray Vent Drain shipped with the kit.

Attach the 1/2" ID drain hose from the vent fitting to the drain trap and securely clamp.

Attach the 3/16" ID rubber tube from the top of the transition box to the drain trap.

Attach the 5/8" ID hose from the bottom of the transition box to the drain trap and securely clamp.

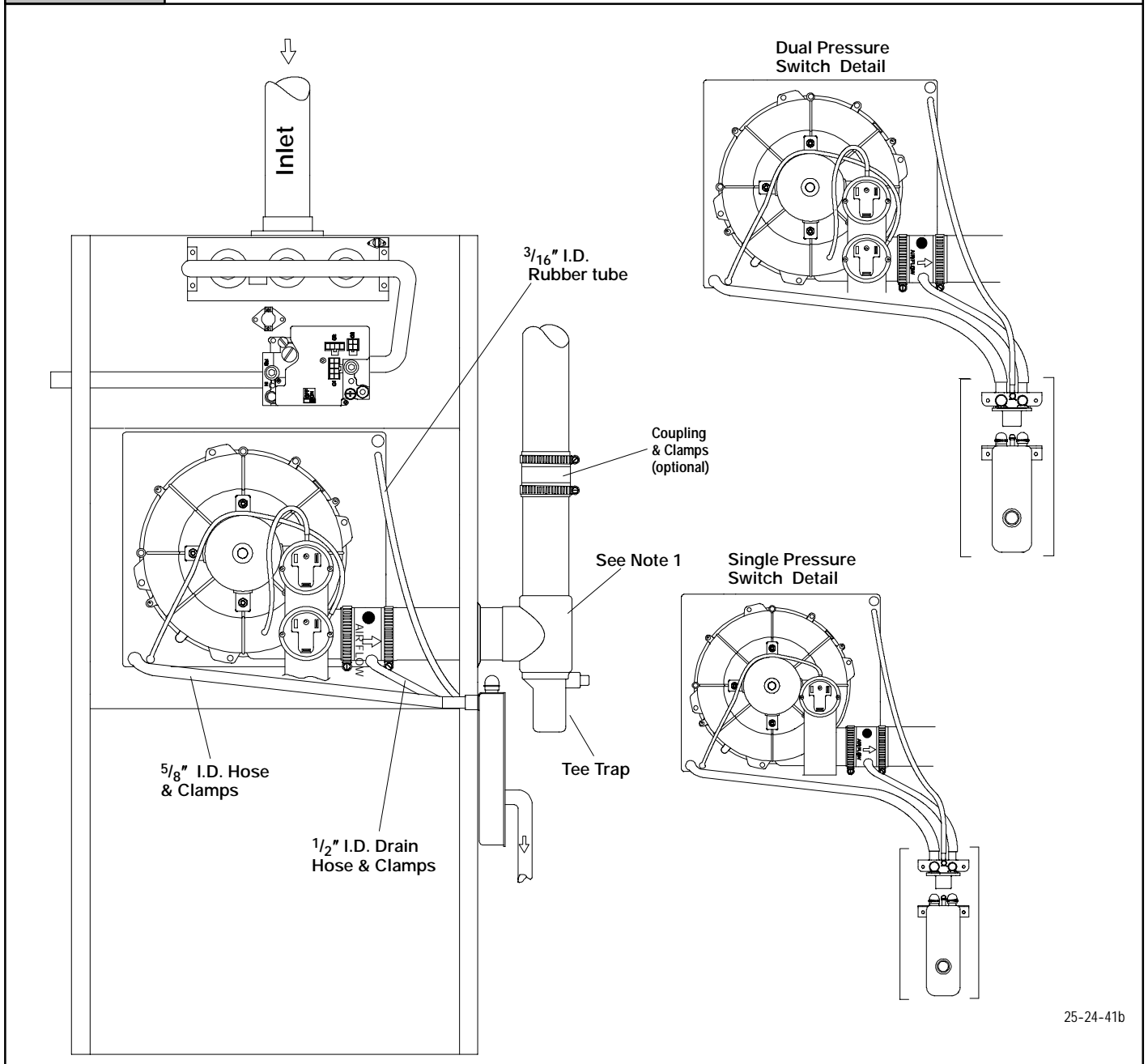
**IMPORTANT**

Refer to **Figure 10** for details of connecting the tee trap to the condensate trap and details for the main drain line.

**NOTE 1:** The Tee as shown connected to Tee Trap is field supplied, and not included in this kit. The Drain Tee supplied with the kit may be used as the Tee with Tee Trap glued into the bottom (section with 1/2" OD drain port). If the Drain Tee is used, a field supplied 2" PVC Coupling is required on the inlet leg that is connected to the inducer.

Figure 3

Upflow Right Side Vent & Trap



### Upflow Right Side Vent (See Figure 3)

Replace and discard the Vent Drain shipped with the furnace if it is the black Fasco coupling. Replace with the gray Vent Drain shipped with the kit.

Attach the 1/2" ID drain hose from the vent fitting to the drain trap and securely clamp.

Attach the 3/16" ID rubber tube from the top of the transition box to the drain trap.

Attach the 5/8" ID hose from the bottom of the transition box to the drain trap and securely clamp.

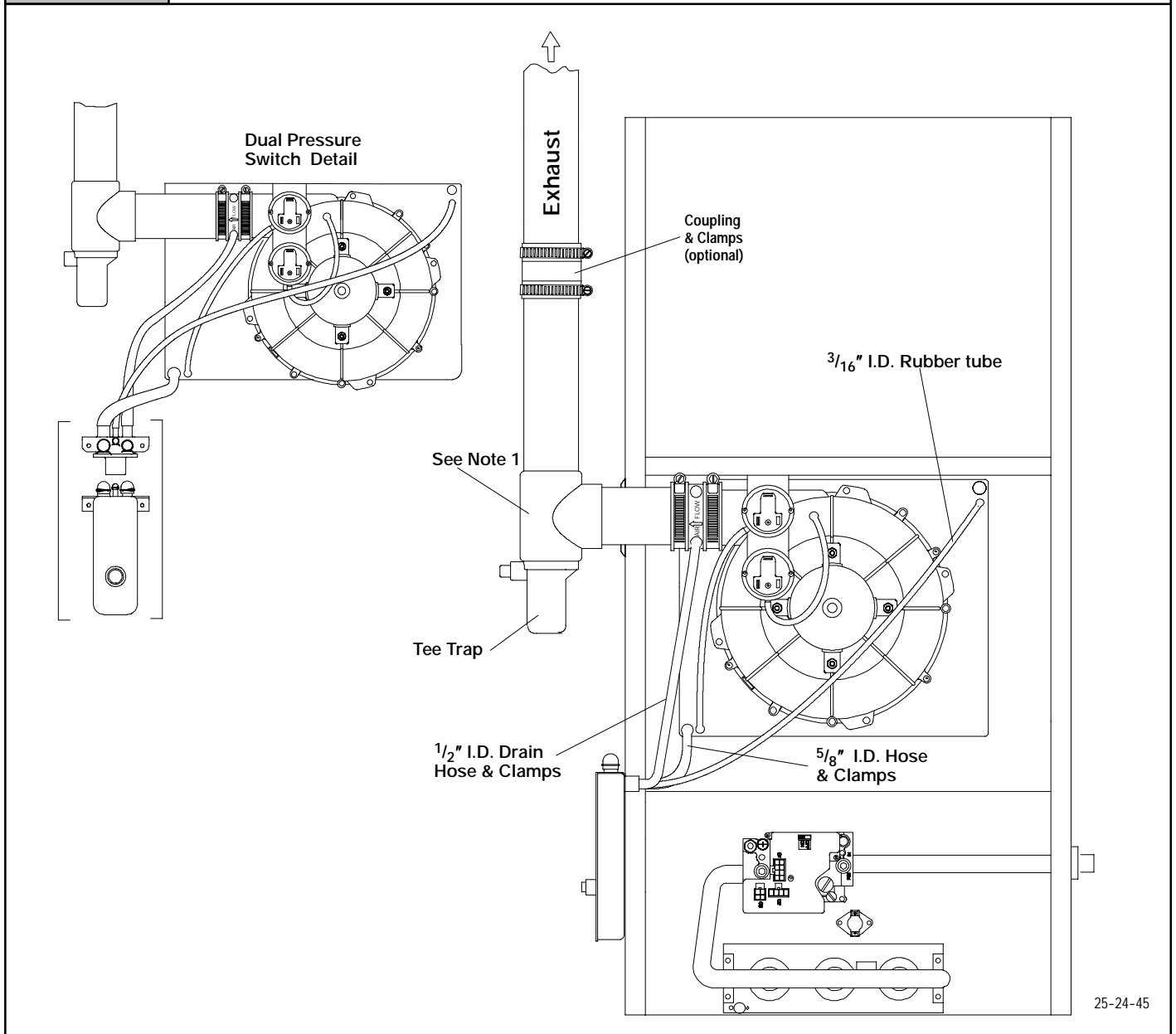
### IMPORTANT

Refer to **Figure 10** for details of connecting the tee trap to the condensate trap and details for the main drain line.

**NOTE 1:** The Tee as shown connected to Tee Trap is field supplied, and not included in this kit. The Drain Tee supplied with the kit may be used as the Tee with Tee Trap glued into the bottom (section with 1/2" OD drain port). If the Drain Tee is used, a field supplied 2" PVC Coupling is required on the inlet leg that is connected to the inducer.

Figure 4

Downflow Left Side Vent & Trap



**Downflow Left Side Vent (See Figure 4)**

Replace and discard the Vent Drain shipped with the furnace if it is the black Fasco coupling. Replace with the gray Vent Drain shipped with the kit.

Attach the 1/2" ID drain hose from the vent fitting to the drain trap and securely clamp.

Attach the 3/16" ID rubber tube from the top of the transition box to the drain trap.

Attach the 5/8" ID hose from the bottom of the transition box to the drain trap and securely clamp.

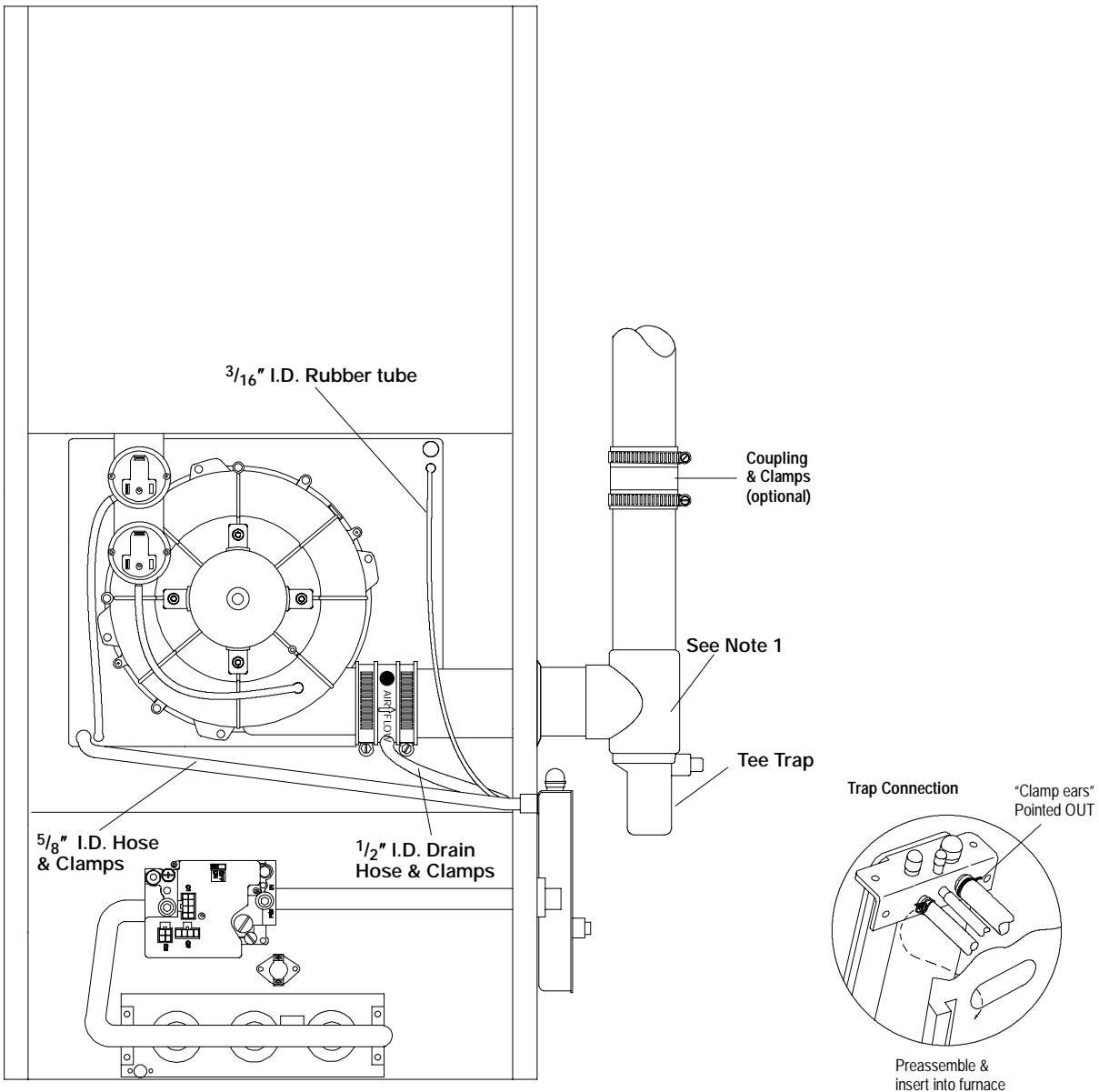
**IMPORTANT**

Refer to **Figure 10** for details of connecting the tee trap to the condensate trap and details for the main drain line.

**NOTE 1:** The Tee as shown connected to Tee Trap is field supplied, and not included in this kit. The Drain Tee supplied with the kit may be used as the Tee with Tee Trap glued into the bottom (section with 1/2" OD drain port). If the Drain Tee is used, a field supplied 2" PVC Coupling is required on the inlet leg that is connected to the inducer.

Figure 5

Downflow Right Side Vent & Trap



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### Downflow Right Side Vent (See Figure 5)

Replace and discard the Vent Drain shipped with the furnace if it is the black Fasco coupling. Replace with the gray Vent Drain shipped with the kit.

Attach the 1/2" ID drain hose from the vent fitting to the drain trap and securely clamp.

Attach the 3/16" ID rubber tube from the top of the transition box to the drain trap.

Attach the 5/8" ID hose from the bottom of the transition box to the drain trap and securely clamp.

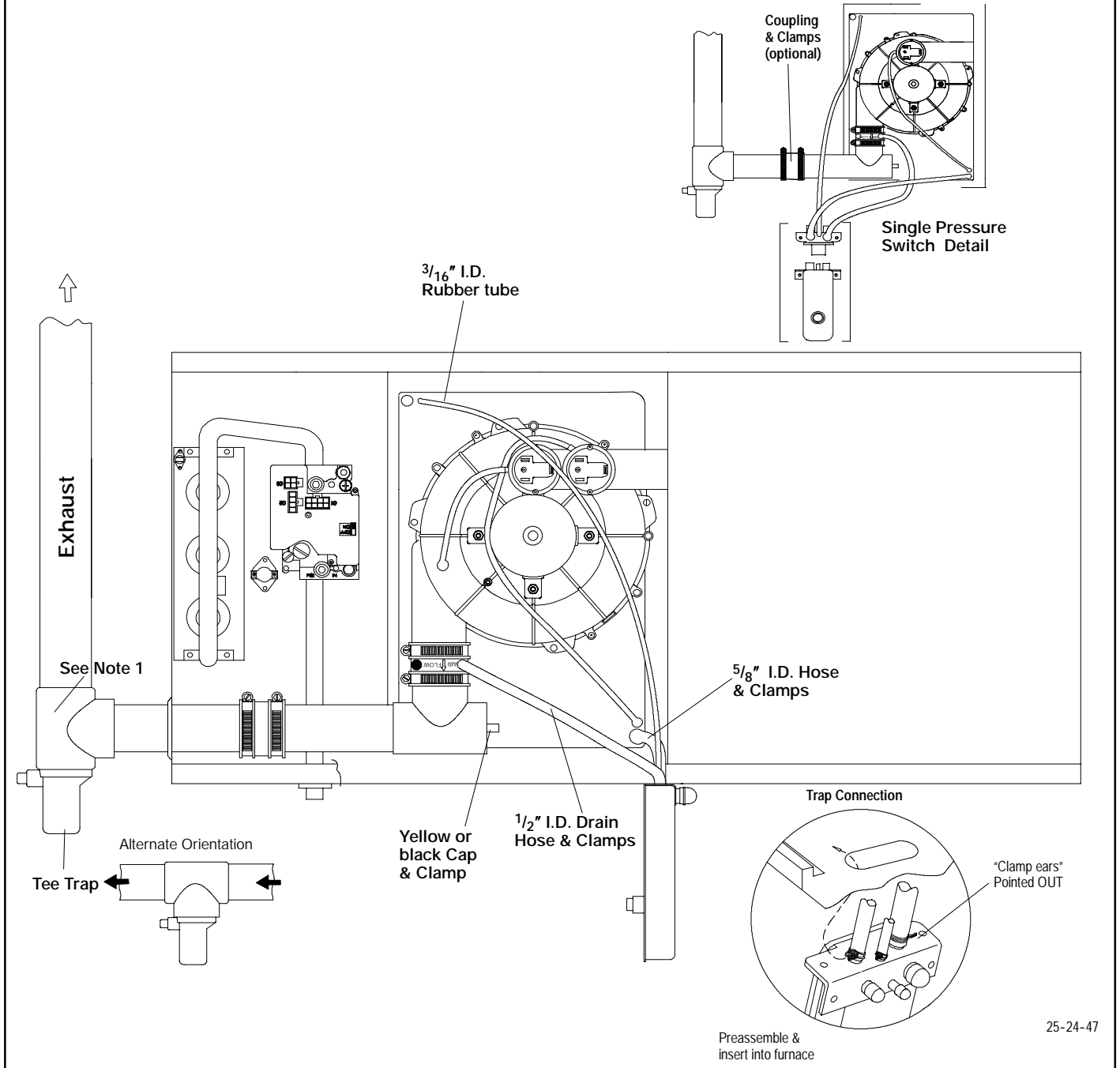
### IMPORTANT

Refer to **Figure 10** for details of connecting the tee trap to the condensate trap and details for the main drain line.

**NOTE 1:** The Tee as shown connected to Tee Trap is field supplied, and not included in this kit. The Drain Tee supplied with the kit may be used as the Tee with Tee Trap glued into the bottom (section with 1/2" OD drain port). If the Drain Tee is used, a field supplied 2" PVC Coupling is required on the inlet leg that is connected to the inducer.

Figure 6

Horizontal Left-Thru Top



**Horizontal Left- Thru Top (See Figure 6)**

Replace and discard the Vent Drain shipped with the furnace if it is the black Fasco coupling. Replace with the gray Vent Drain shipped with the kit.

Attach the 1/2" ID drain hose from the vent fitting to the drain trap and securely clamp.

Attach the 3/16" ID rubber tube from the top of the transition box to the drain trap.

Attach the 5/8" ID hose from the bottom of the transition box to the drain trap and securely clamp.

Attach a Yellow or black cap to bottom port of vent drain and secure

with clamp.

**IMPORTANT**

Refer to **Figure 10** for details of connecting the tee trap to the condensate trap and details for the main drain line.

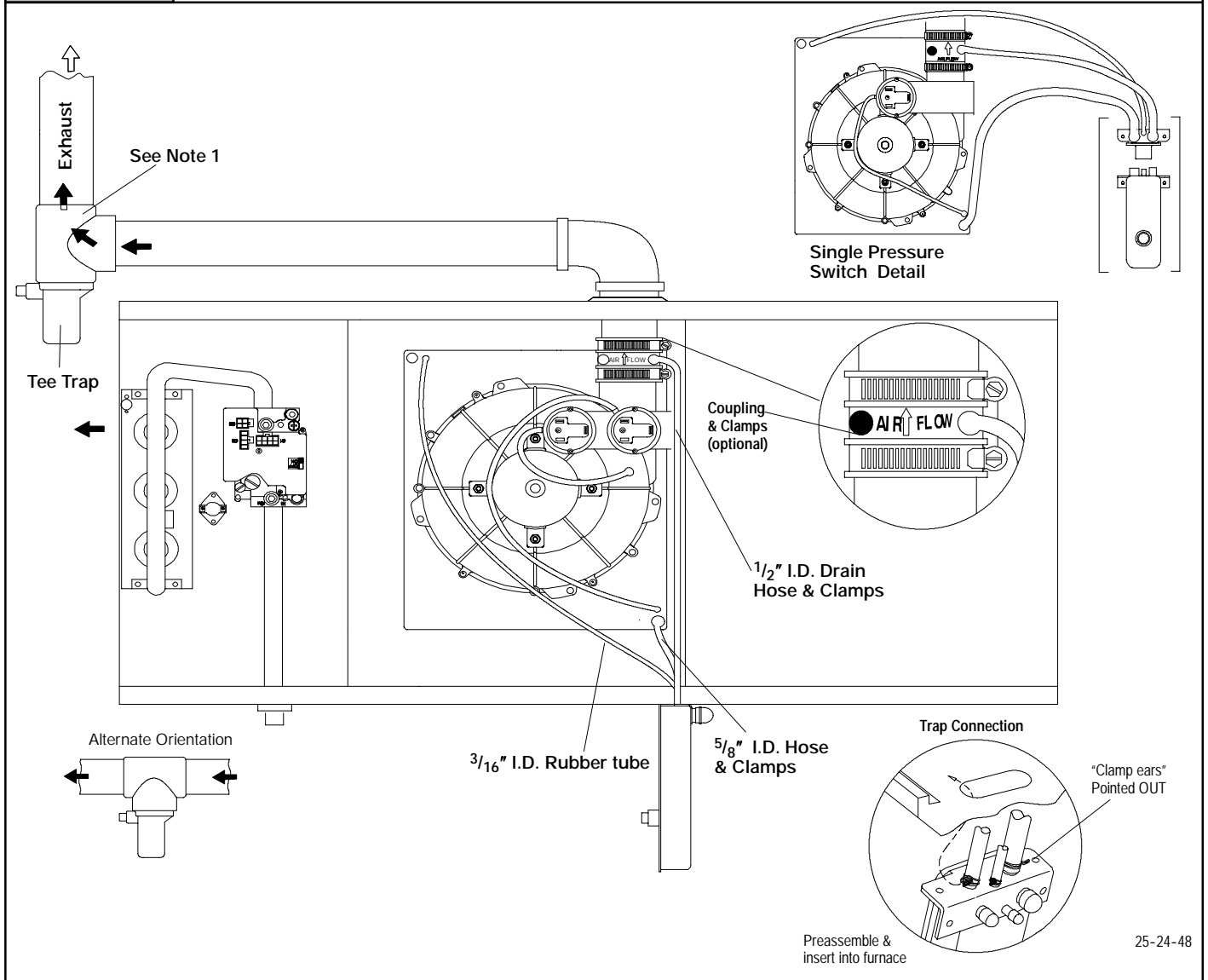
**NOTE 1:** The Tee as shown connected to Tee Trap is field supplied, and not included in this kit. The Drain Tee supplied with the kit may be used as the Tee with Tee Trap glued into the bottom (section with 1/2" OD drain port). If the Drain Tee is used, a field supplied 2" PVC Coupling is required on the inlet leg that is connected to the inducer.

Preassemble & insert into furnace

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Figure 7

Horizontal Left Side Vent



**Horizontal Left Side Vent (See Figure 7)**

Replace and discard the Vent Drain shipped with the furnace if it is the black Fasco coupling. Replace with the gray Vent Drain shipped with the kit.

Attach the 1/2" ID drain hose from the vent fitting to the drain trap and securely clamp.

Attach the 3/16" ID rubber tube from the top of the transition box to the drain trap.

Attach the 5/8" ID hose from the bottom of the transition box to the drain trap and securely clamp.

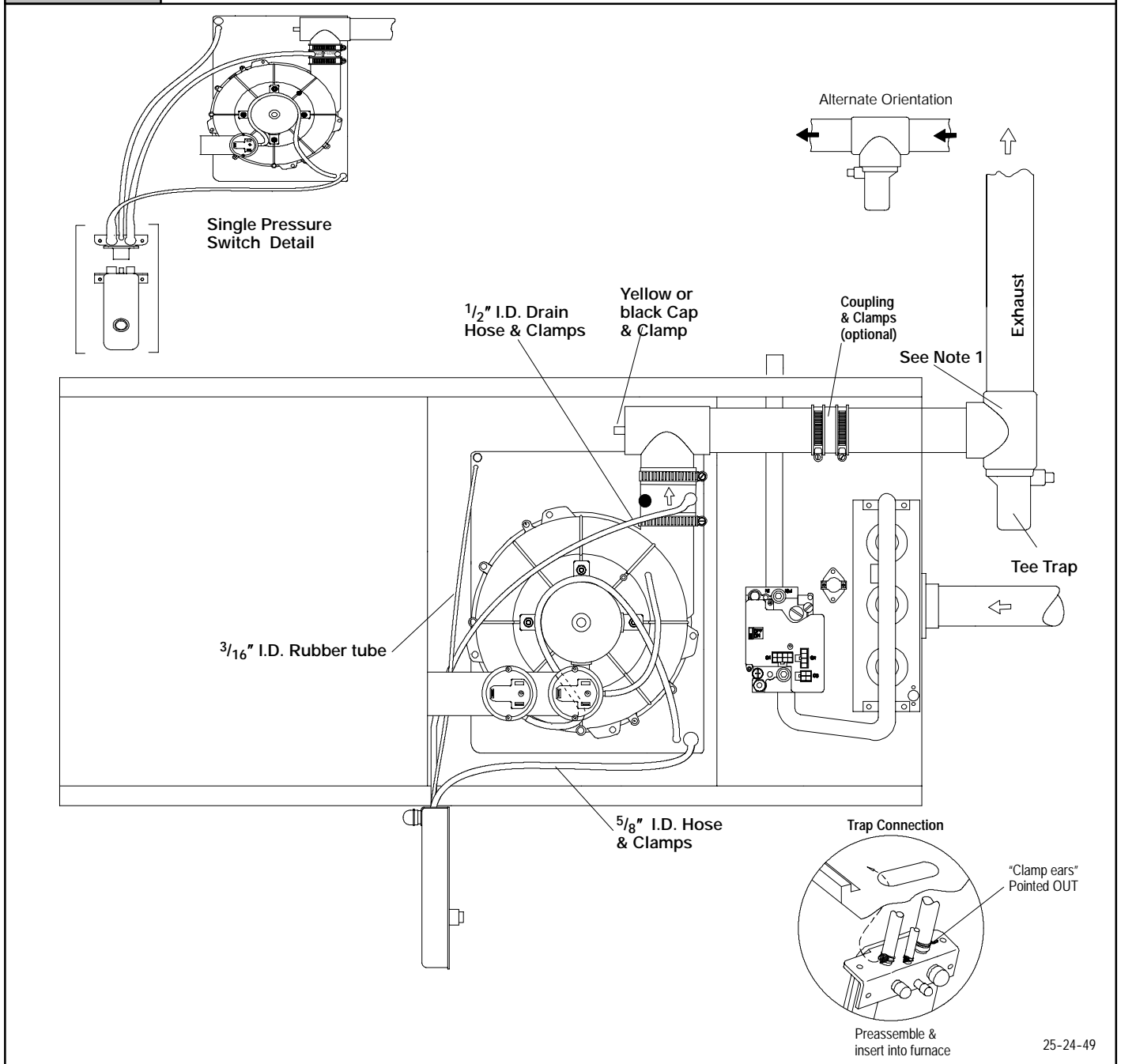
**IMPORTANT**

Refer to **Figure 10** for details of connecting the tee trap to the condensate trap and details for the main drain line.

**NOTE 1:** The Tee as shown connected to Tee Trap is field supplied, and not included in this kit. The Drain Tee supplied with the kit may be used as the Tee with Tee Trap glued into the bottom (section with 1/2" OD drain port). If the Drain Tee is used, a field supplied 2" PVC Coupling is required on the inlet leg that is connected to the inducer.

Figure 8

Horizontal Right-Thru Top



**Horizontal Right- Thru Top (See Figure 8)**

Replace and discard the Vent Drain shipped with the furnace if it is the black Fasco coupling. Replace with the gray Vent Drain shipped with the kit.

Attach the 1/2" ID drain hose from the vent fitting to the drain trap and securely clamp.

Attach the 3/16" ID rubber tube from the top of the transition box to the drain trap.

Attach the 5/8" ID hose from the bottom of the transition box to the drain trap and securely clamp.

Plug the end of the drain tee with a Yellow or black cap and fasten with a clamp.

Attach a yellow cap to bottom port of vent drain and secure with clamp.

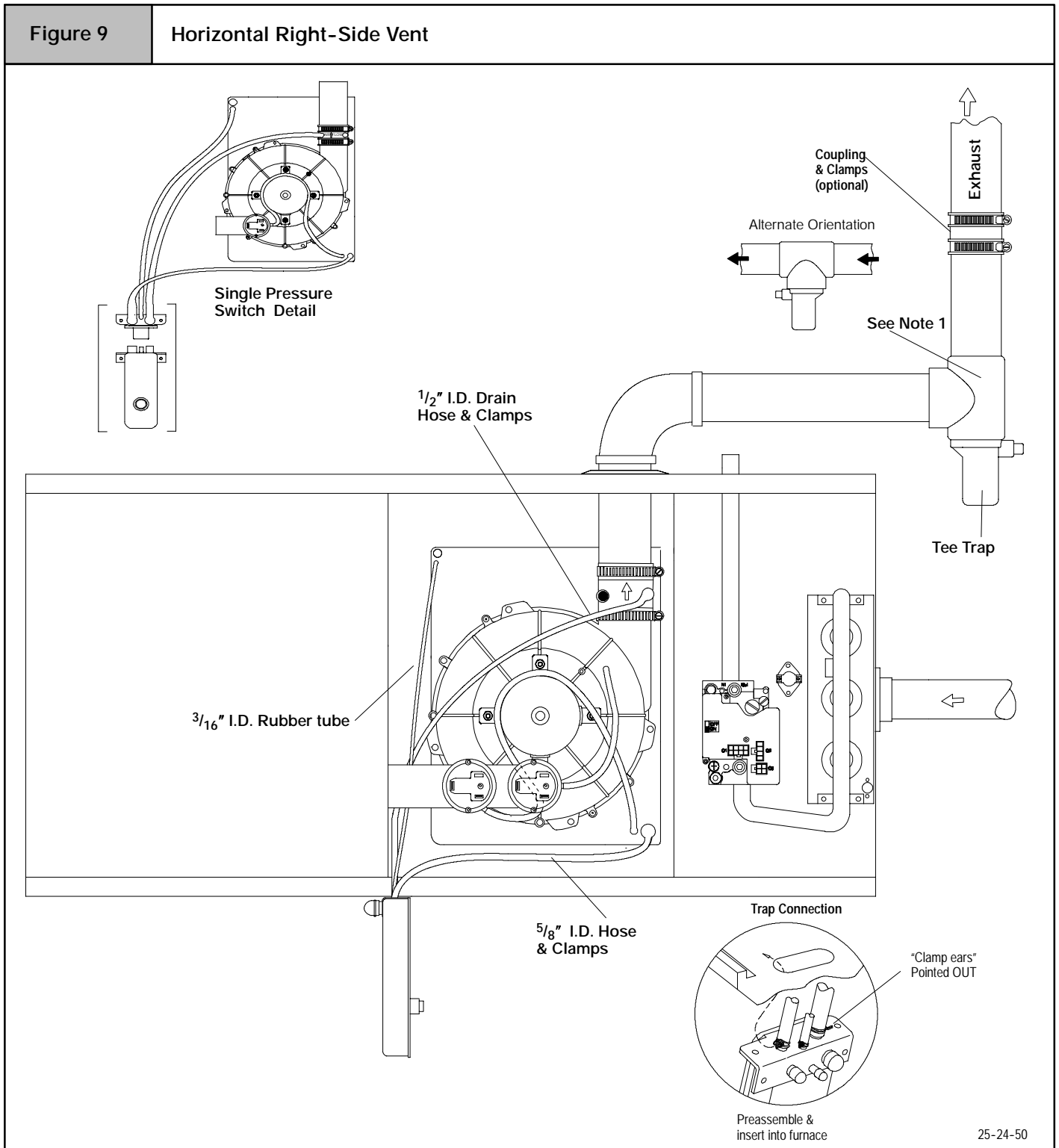
**IMPORTANT**  
Refer to **Figure 10** for details of connecting the tee trap to the condensate trap and details for the main drain line.

**NOTE 1:** The Tee as shown connected to Tee Trap is field supplied, and not included in this kit. The Drain Tee supplied with the kit may be used as the Tee with Tee Trap glued into the bottom (section with 1/2" OD drain port). If the Drain Tee is used, a field supplied 2" PVC Coupling is required on the inlet leg that is connected to the inducer.



Figure 9

Horizontal Right-Side Vent



**Horizontal Right-Side Vent (See Figure 9)**

Replace and discard the Vent Drain shipped with the furnace if it is the black Fasco coupling. Replace with the gray Vent Drain shipped with the kit.

Attach the 1/2" ID drain hose from the vent fitting to the drain trap and securely clamp.

Attach the 3/16" ID rubber tube from the top of the transition box to the drain trap.

Attach the 5/8" ID hose from the bottom of the transition box to the drain trap and securely clamp.

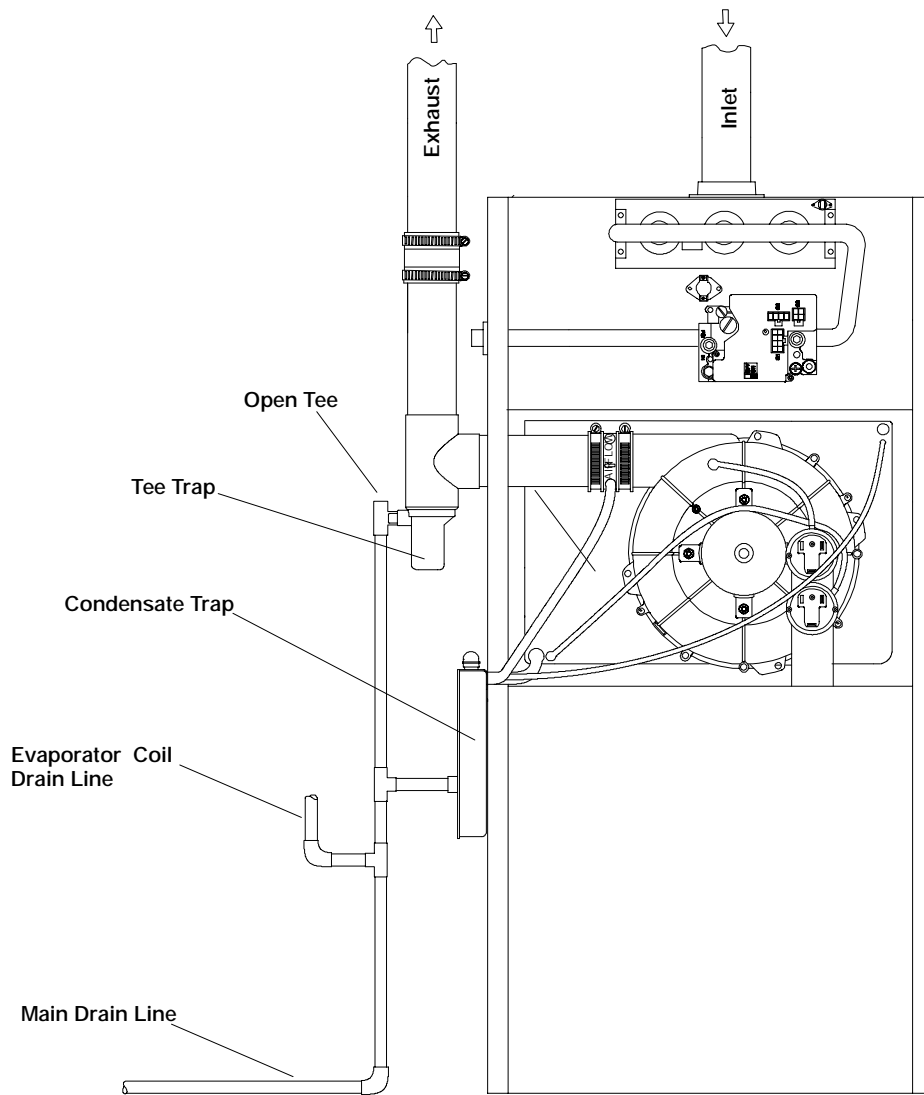
**IMPORTANT**

Refer to **Figure 10** for details of connecting the tee trap to the condensate trap and details for the main drain line.

**NOTE 1:** The Tee as shown connected to Tee Trap is field supplied, and not included in this kit. The Drain Tee supplied with the kit may be used as the Tee with Tee Trap glued into the bottom (section with 1/2" OD drain port). If the Drain Tee is used, a field supplied 2" PVC Coupling is required on the inlet leg that is connected to the inducer.

Figure 10

Connecting Tee Trap to Condensate Trap and Main Drain Line



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The Tee Trap must be connected to the main condensate drain line as conceptually shown above. Different installations may require slightly different orientations. The following steps apply to all installations.

1. The Tee Trap should be installed as close to the side or top of the furnace as practical. Minimize the distance between the inducer and the Tee Trap as much as possible.
2. An open tee is to be used at the Tee Trap discharge. The top end of the tee should be open to the atmosphere to eliminate potential air lock problems.
3. The drain line from the Tee Trap is to be connected to the furnace condensate trap drain line as shown above.
4. Condensate drain lines from a cooling coil must be connected downstream of the connection point of the Tee Trap and Furnace Condensate Trap.

**Important: Prime both traps with water before operation.**  
Failure to prime the traps may result in discharge of flue gases from the condensate drain line and open tee for a period of time, and may result in temporary lockout of the furnace upon start up.