1967-1972
Chevrolet Truck
Install Instructions

This kit is designed for the 1967-1972 Chevrolet or GMC trucks without factory air conditioning.

Step One
Remove the Following Factory Components:

- Glove box
- Heater box
- Heater box firewall cover
- Controls and control cables DO NOT DISCARD BEZEL!
- Ducting
- Battery

Step Two
Condenser Installation

1) Remove hood latch from core support

2) Assemble condenser and brackets as shown (Figure 1)

3) Lower condenser brackets will mount to the factory holes in the lower core support.

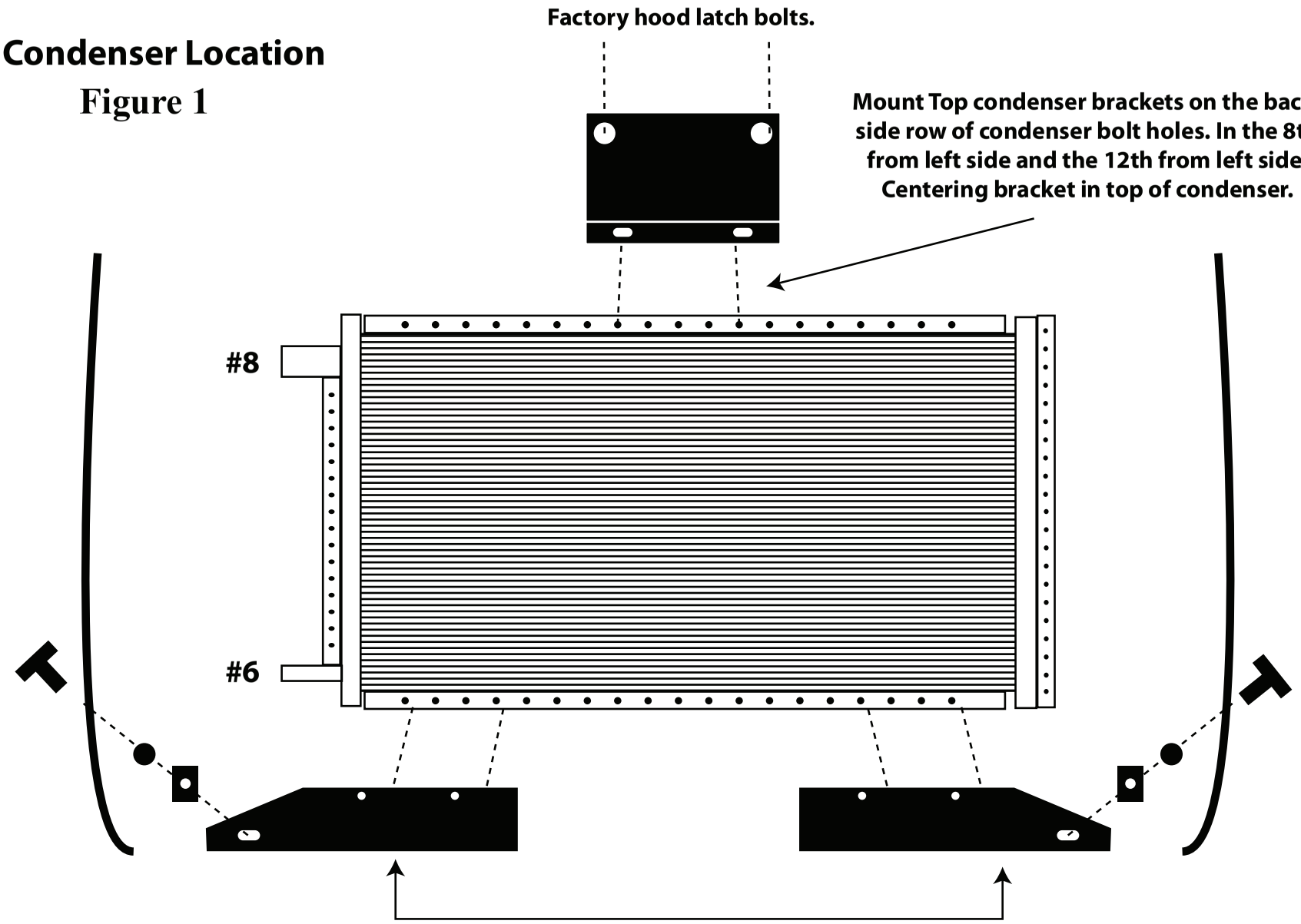
4) Top condenser bracket will sandwich behind the two top hood latch bolts in the core support.

5) Install two 1/4” bolts with stamped steel flat nuts into the existing holes in the lower core support to act as studs for final assembly. (Figure 1)

Figure 1

Condenser Location

Figure 1



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Step Three
Drier and Binary Switch Installation

1) Install the drier using the two supplied clamps. Attach the drier to the two existing studs on the condenser. Figure 2.

2) Using a 9/16 wrench remove the plug from the top of the drier. Install binary switch be sure to lubricate the o-ring. (Figure 3)

3) Install #6 hardline from condenser to drier using supplied o-rings. Be sure to lubricate o-rings with a thin film of refrigerant oil. DO NOT OVER TIGHTEN

Condenser Location

Figure 2

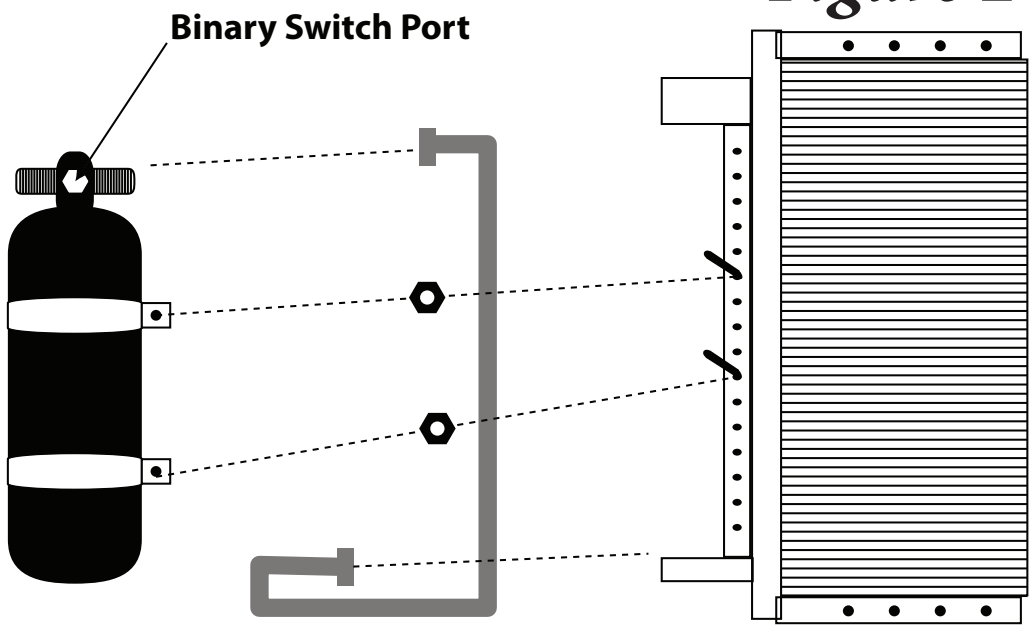
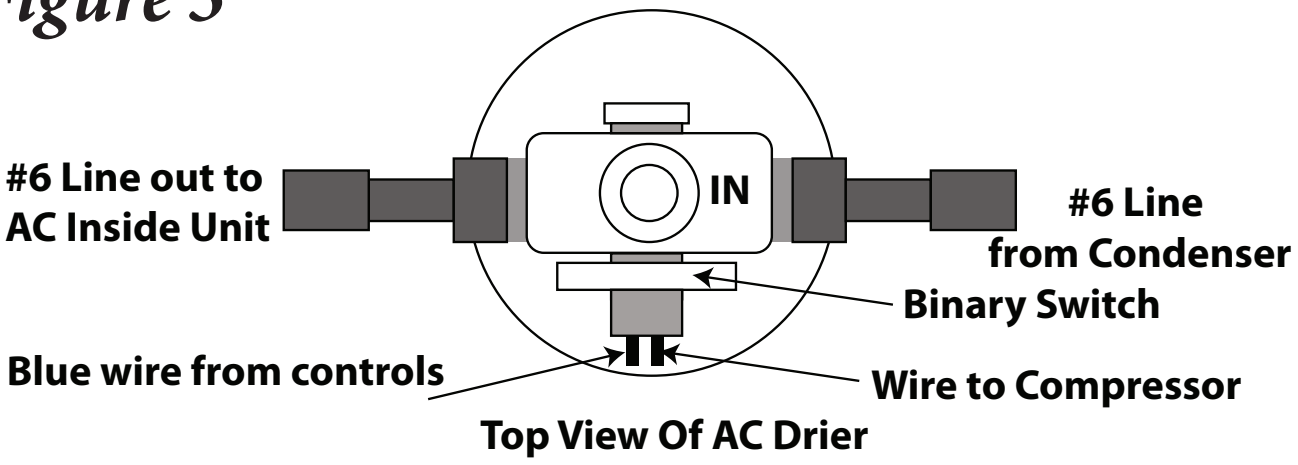


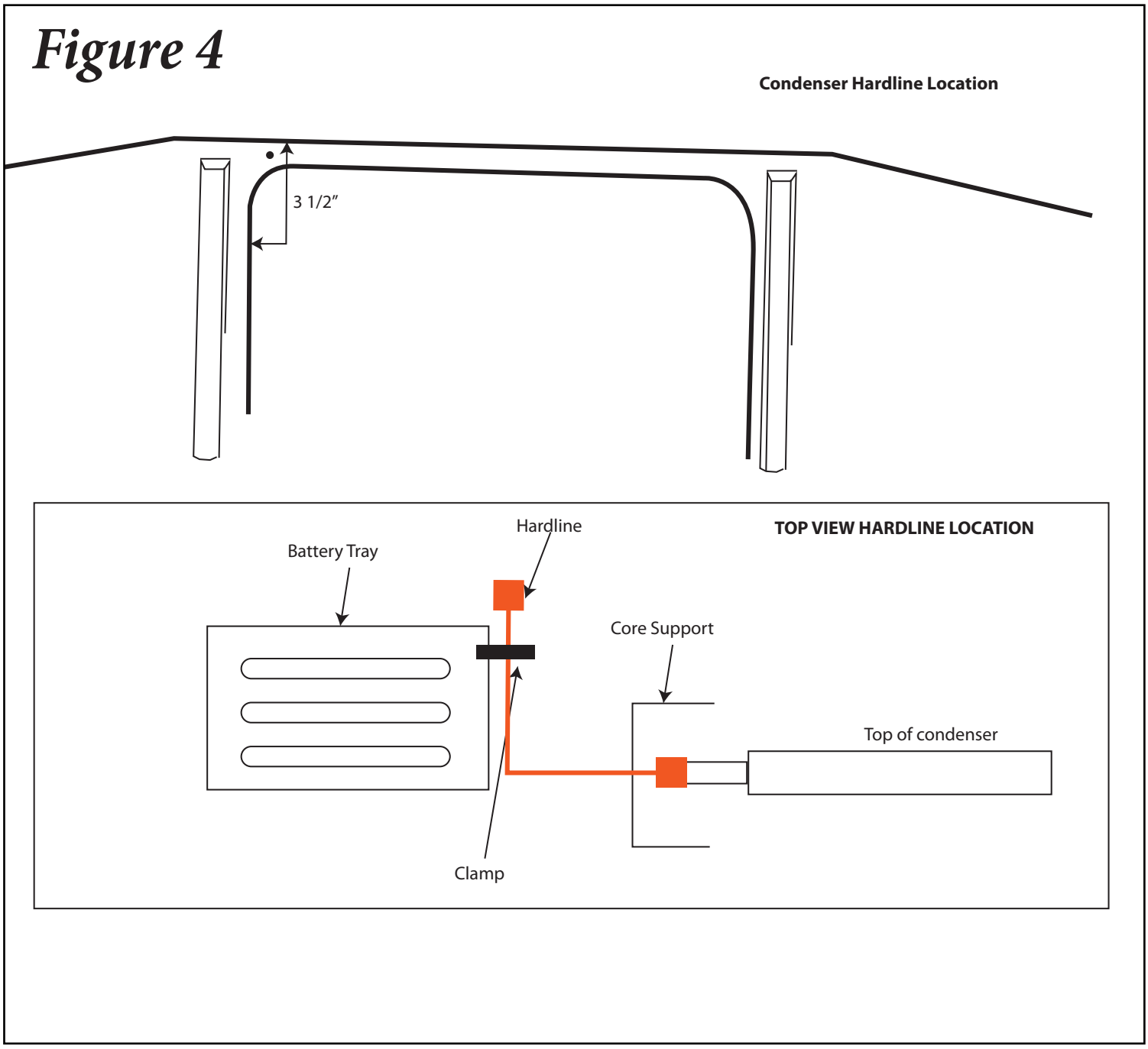
Figure 3



Step Four
#8 Hardline Location for Condenser

1) Measure from top of core support 3 1/2” down and bore an 1 1/4” hole through the side of the core support to line up with the number 8 fitting on the top of condenser. Install #8 90 Degree hardline from condenser through the core support and attach to side of battery tray with supplied clamp. Figure 4

Figure 4



Step Five
Firewall Cover installation

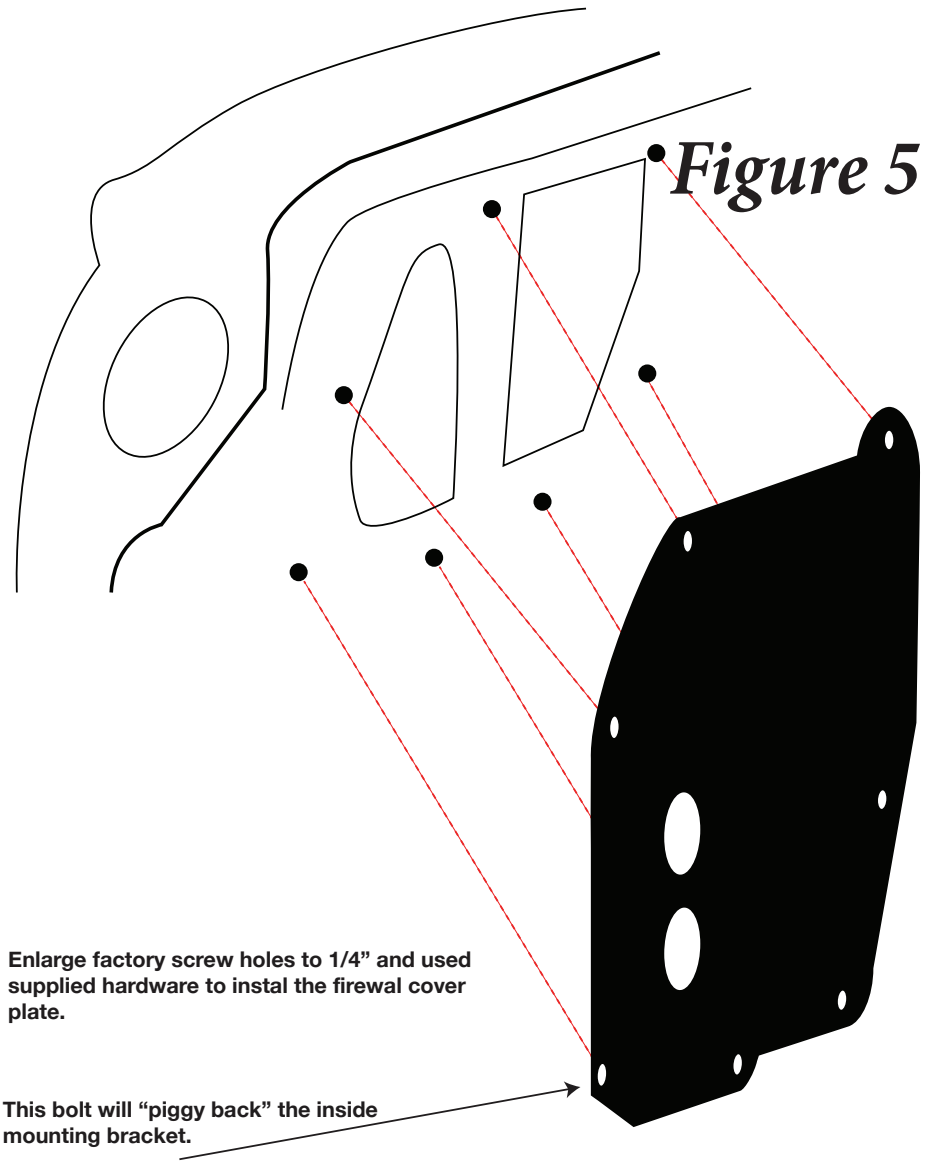
1) Apply supplied foam tape to the firewall side of the of the firewall cover plate (Figure 5)

2) Using the supplied hardware mount cover plate on the outside of the firewall as shown (Figure 5)

3) Enlarge the five factory screw holes to ¼" it will be necessary to drill a sixth hole. Install using 1/4" hardware. (Figure 5)

4) We highly recommend insulating the firewall at this time for maximum performance of you're A/C system.

Firewall Cover Installation (engine compartment side)



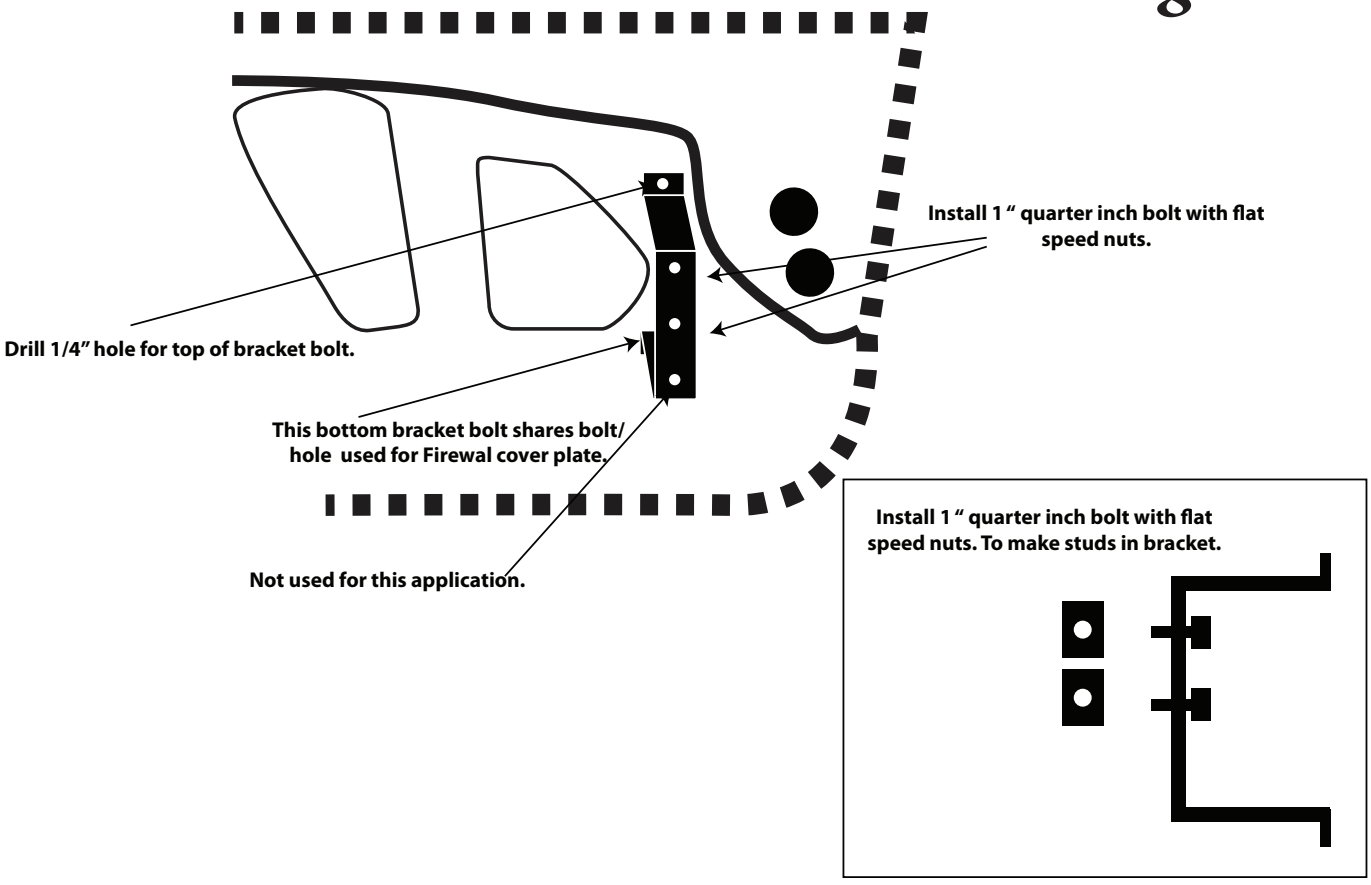
Step Six
Installing Inside Mounting Brackets

1) Mount right hand bracket to the inside of firewall shown in figure 6.

2) Mount left hand side mount bracket to the unit using supplied hardware shown in figure 6.

Right Hand Inside Unit Mounting Bracket Location

Figure 6



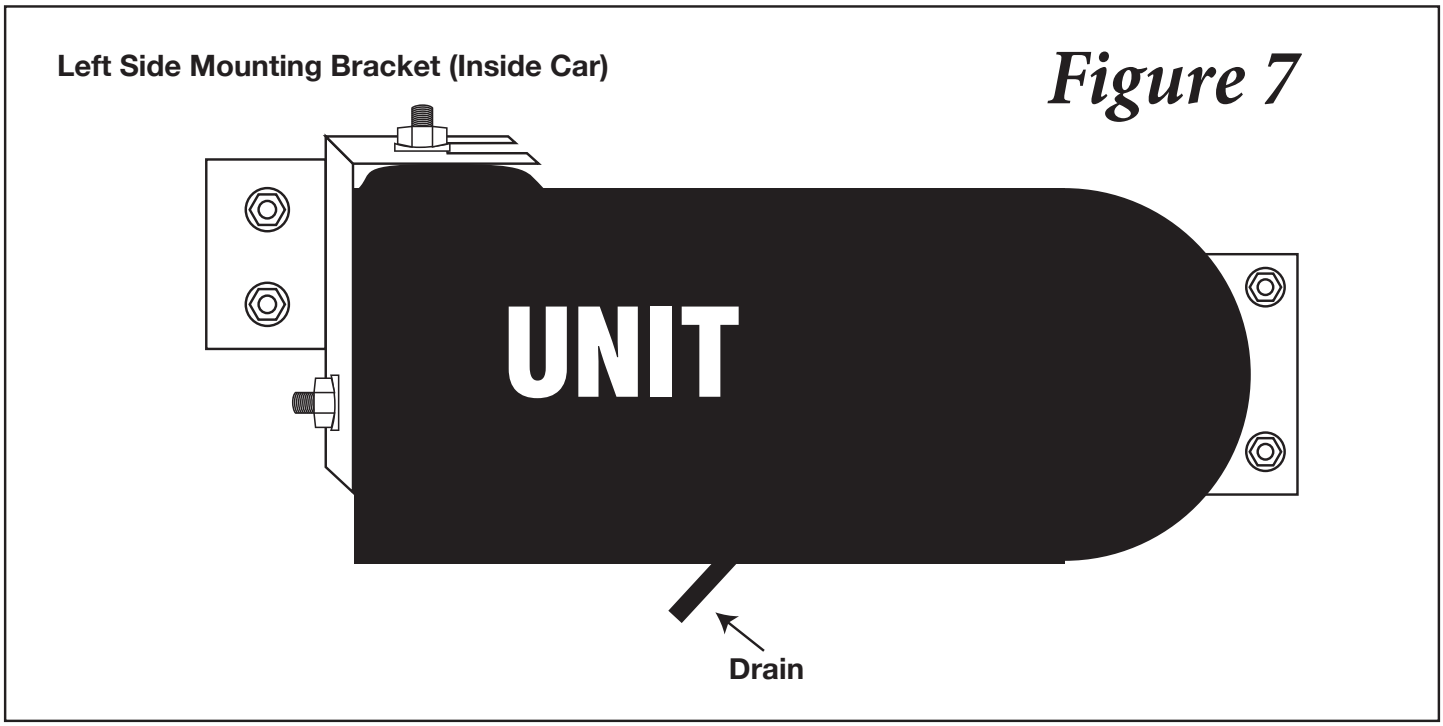
Step Seven (Figure 7)
Mounting Evaporator Unit

1) Lift evaporator into place. Attach to the two studs on the right side through the bracket on the evaporator.

2) Level unit and drill the firewall on the left side for the left side mounting bracket.

3) Use supplied hardware to permanently attach unit.

4) Locate drian on unit and drill hole in floor for drain tube.



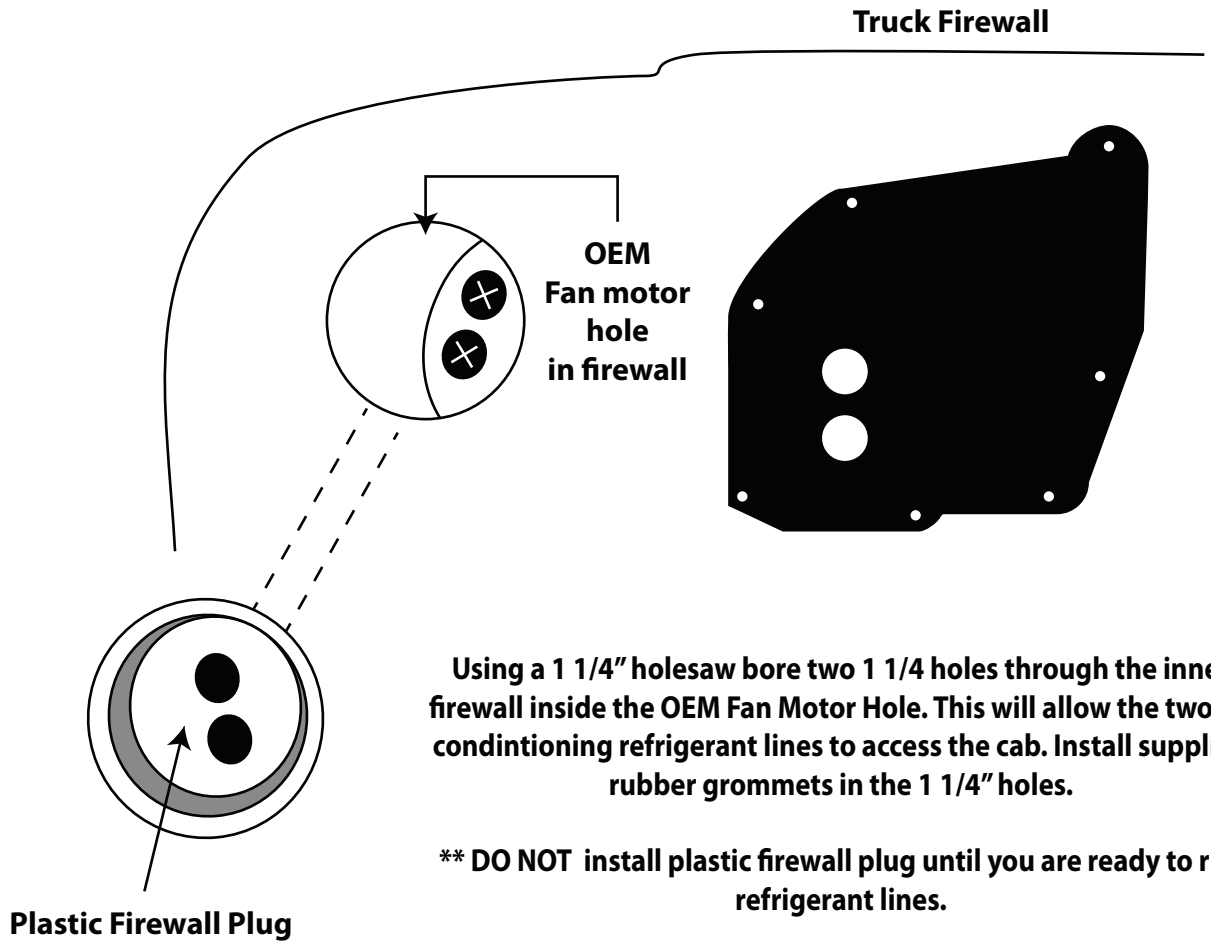
Step Eight (Figure 8)
Cutting Inside Firewall for Refrigerant Lines & Heater Hoses

1) Using a 1 1/4” holesaw bore two 1 1/4 holes through the inner firewall inside the OEM Fan Motor Hole. This will allow the two air condintioning refrigerant lines to access the cab. Install supplied rubber grommets in the 1 1/4” holes.

** DO NOT install plastic firewall plug until you are ready to run refrigerant lines.

Hose Plug Location

Figure 8



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Important*

Important! You must permanently seal off kick panel fresh air vents. To properly seal the vehicle for maximum A/C performance.

Step Nine (Figure 9)
Ash Tray Vent Installation

1) Remove factory ash tray.

2) Install vent louver into vent bezel.

3) Align in the ash tray opening.

4) Mark and drill two mounting holes,

5) Attach with stainless button head hardware provided.

Figure 9

Ash tray vent bezel is made from bare material to be painted the same color as your dash.

Step Ten (Figure 10)
Duct Installation

1) Defrost ducts- no aftermarket parts required for this step.

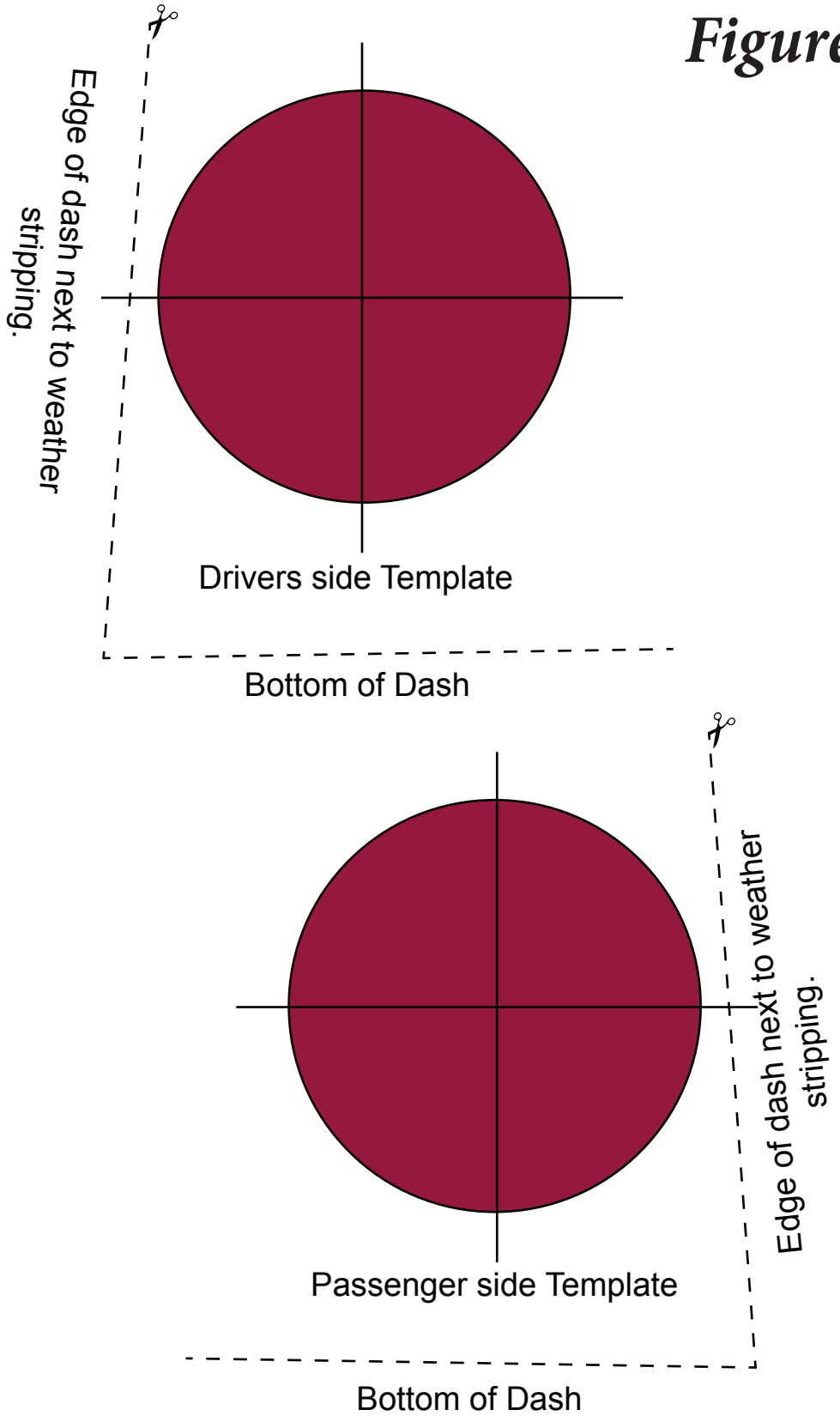
2) The two inch duct hose supplied with this kit will attach to the factory defrost plenums.

3) Dash vents. Dash vents require a 2 1/2” hole. Drill dash using templates in Figure 10. We recommend cutting the hole slightly smaller and filing for final fit.

MEASURE TWICE CUT ONCE!

Dash Vent Templates

Figure 10



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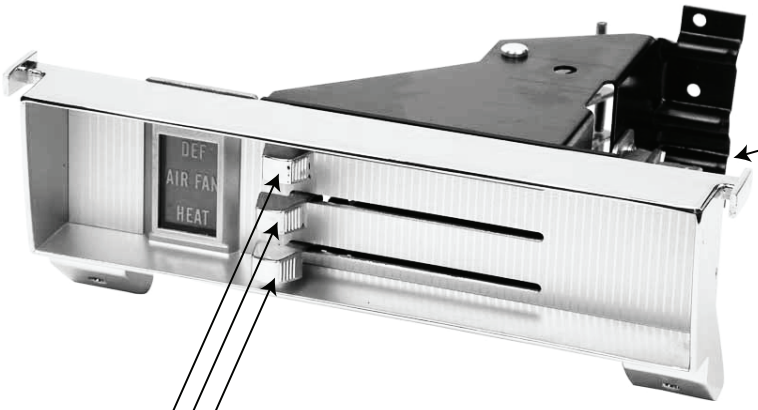
Step Eleven (Figure 11)
Dash Control installation

1) Remove factory knobs

2) Drill out the 4 factory rivets & separate the faceplate from the control mechanism.

3) Carefully cut the remaining center out of the factory control leaving 1/8” material all the way around the inside of the bezel.

Figure 11



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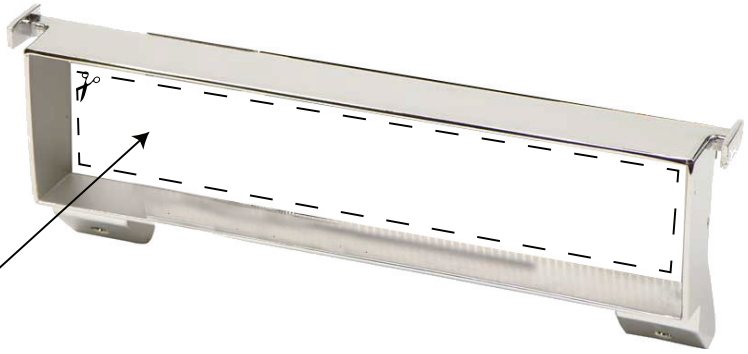


Carefully cut the remaining center out of the factory control leaving 1/8” material all the way around the inside of the bezel.

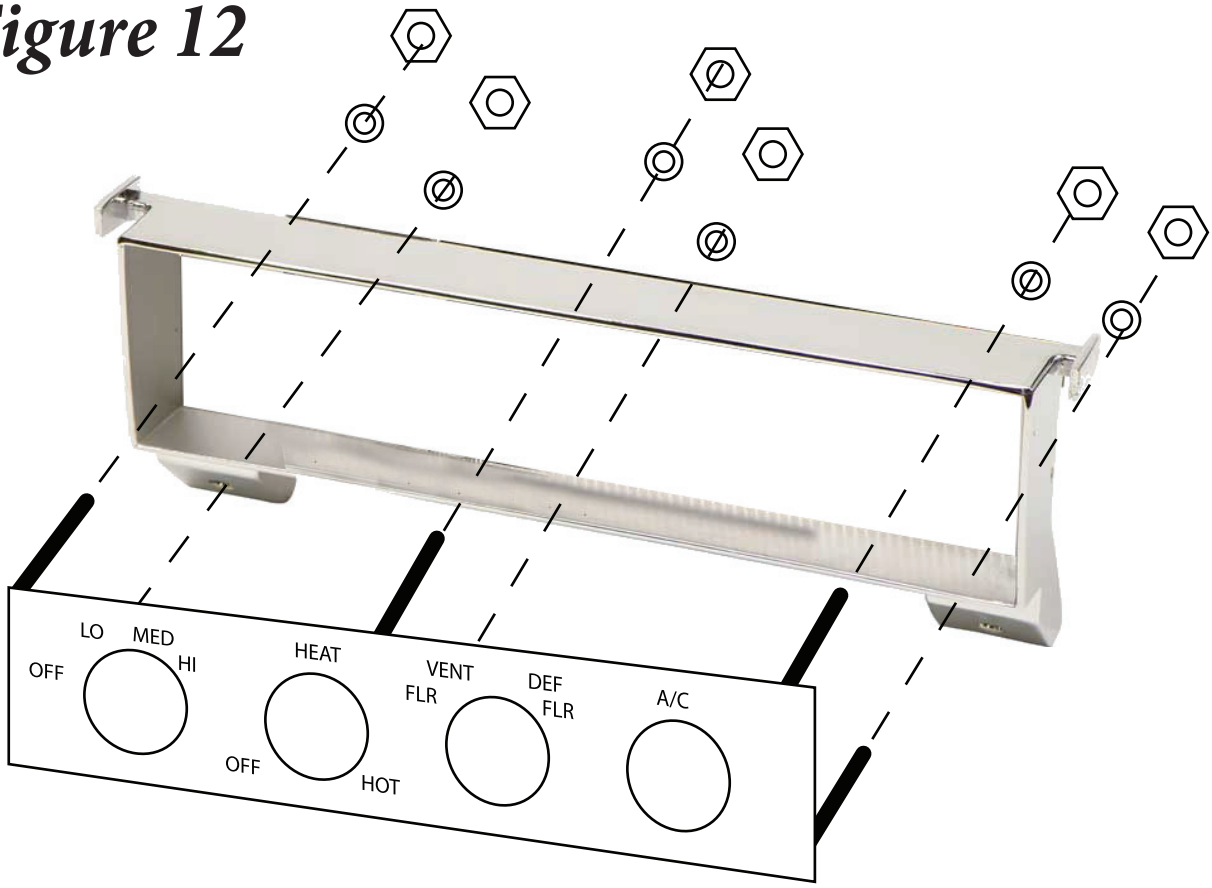
Step Twelve (Figure 12)
Billet Faceplate Installation

1) Attach using the 6/32 hardware provided.

2) The flat washers will overlap the 1/8” material all the way around the bezel. This will hold the bezel in place.

3) Re-install bezel back into the dash.

Figure 12



Step Thirteen
Refrigerant Hose Routing (FIG 13)

1) Mount the compressor using instructions included with the bracket kit

2) Route #10 A/C hose from the unit thru plastic firewall bulkhead into engine compartment to low side of compressor

3) Route #8 A/C hose from the high side compressor to the #8 hardline attached to the battery tray from top condenser fitting.

4) Route #6 A/C hose from the evaporator thru the plastic bulkhead into the engine compartment behind the inner fender well and follow the core support and attach to the hardline behind the battery using the #6 90 degree fitting. (FIG 14)

5) It will be necessary to mock all hoses up in advance before final crimping.

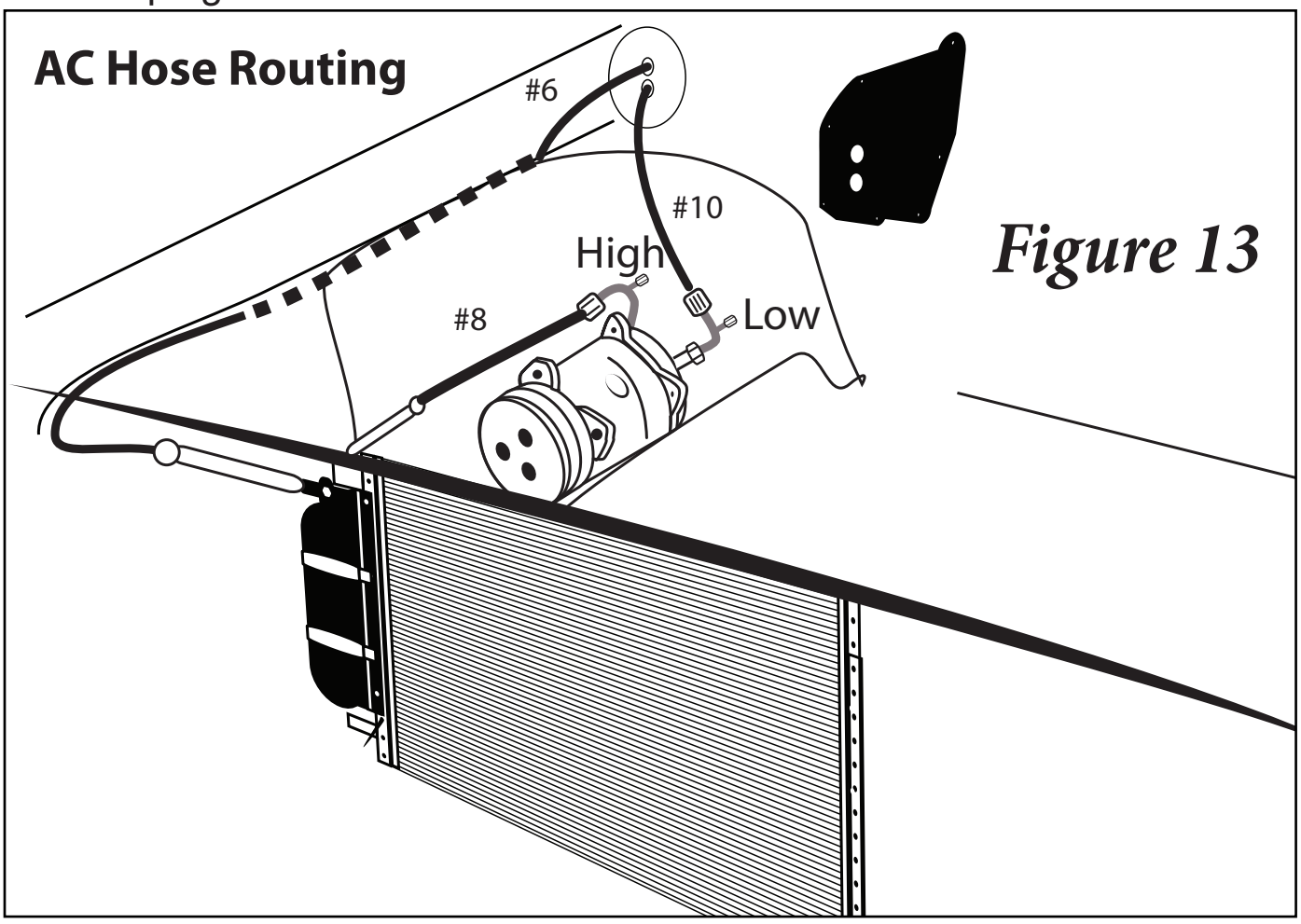


Figure 13

Step Fourteen
Water valve and Heater Hose Installation

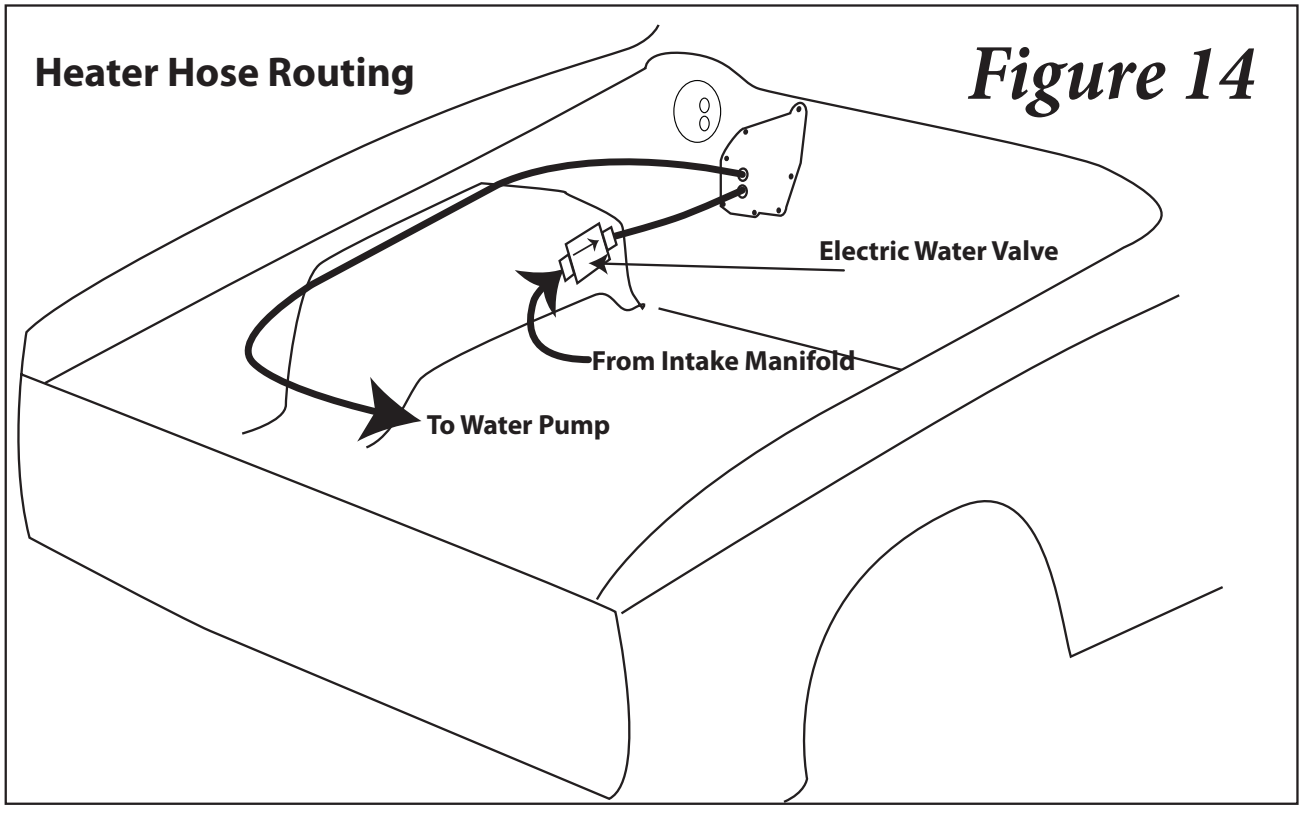
1) Mount water valve to lower inner fender (Figure 14)

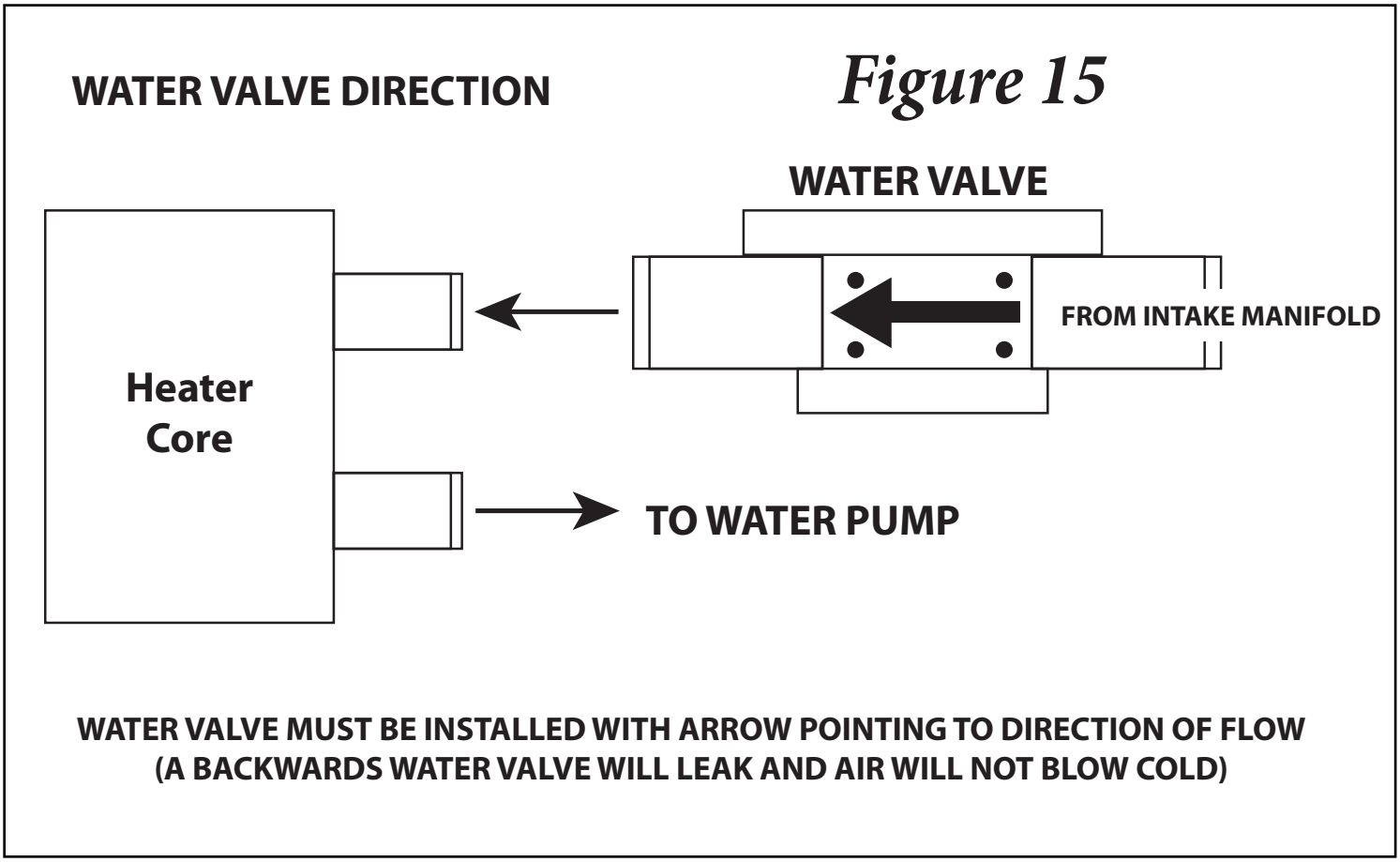
2) Route heater hose from evaporator unit thru the firewall coverplate over the inner fenderwell and attach to engine return line (water pump. Be sure to install the two rubber grommets in the engine firewall cover plate) Figure 14

3) Route hose from intake manifold (pressure) to inlet side of water valve. Figure 14

4) Route hose from the water valve exit thru firewall cover plate and into the Heater Core. (heater core is not directional) Figure 14

5) Water valve is directional. It is marked with an arrow showing the direction of flow to the heater core. (FIG 15)





Step Fifteen
Wiring Your System

1) Make sure your electrical system can handle the load (25AMP)

2) If using original wiring we highly recommend putting the system on a 30 AMP relay and 30 AMP circuit breaker available from Southern Rods Part number SRP-AC30.

3) If using aftermarket wire harness locate a proper keyed fused 12V source that can handle a 25 AMP load

4) Southern Air systems are plug and play. No need to cut or splice anything. Plug in switch panel as per wiring diagram.

Step Fifteen Continued..
Wiring Your System

5) Route the compressor wire along the #6 refridgerant line to the binary switch on the drier.

6) Wire binary switch as per Figure 3

7) Route water valve wire along heater hose and plug into water valve.

8) Make sure your system has a good ground. If you are grounding to the dash or firewall make sure you have a good chassis ground to engine block.

Step Sixteen

REFER TO THE PRINCIPLES OF AIR CONDITIONG PAMPLET INCLUDED IN THIS KIT FOR CHARGING AND TROUBLESHOOTING INSTRUCTIONS AGAIN IF YOU HAVE ANY QUESTIONS CALL SOUTHERN AIR 864-848-0601