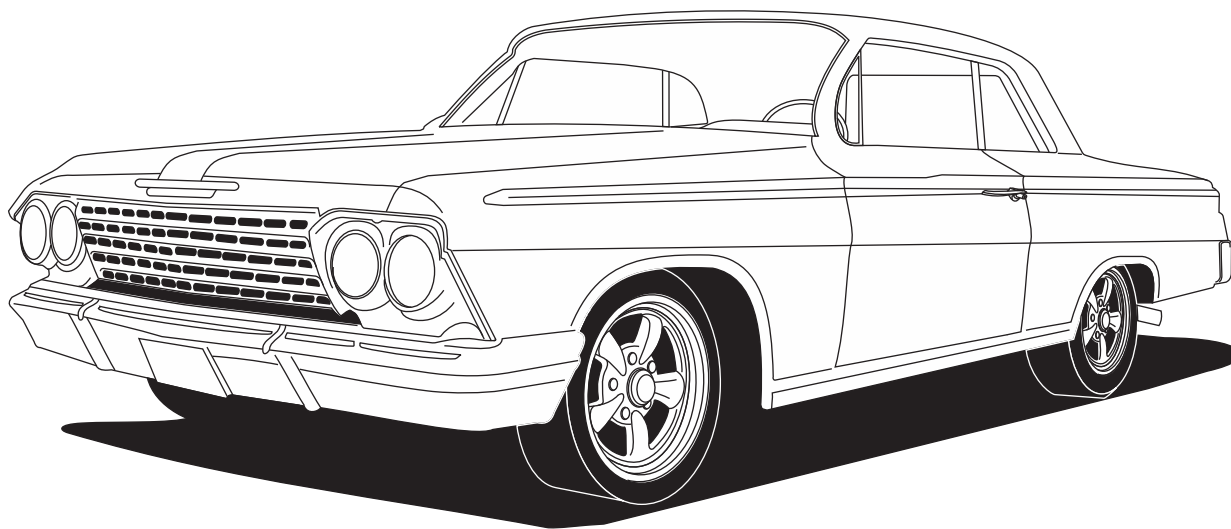




1961-63 Chevrolet Impala

Condenser Kit *with* Drier
(021062)



18865 Goll St. San Antonio, TX 78266

Phone: 800-862-6658

Sales: sales@vintageair.com

Tech Support: tech@vintageair.com

www.vintageair.com



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Parts Disclaimer: Please Read

Before beginning installation, open all packages and check contents of shipment. Please report any shortages directly to Vintage Air within 15 days. After 15 days, Vintage Air will not be responsible for missing or damaged items. Packing list located on last page of instructions.



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Important Notice—Please Read

For Maximum System Performance, Vintage Air Recommends the Following:

NOTE: Vintage Air systems are designed to operate with R134a refrigerant only. Use of any other refrigerant could damage your A/C system and/or vehicle, and possibly cause a fire, in addition to potentially voiding the warranties of the A/C system and its components.

Refrigerant Capacities:

Vintage Air System: 1.8 lbs. (28.8 oz.) or 816 grams of **R134a**, charged by weight with a quality charging station or scale. **NOTE:** Use of the proper type and amount of refrigerant is critical to system operation and performance.

Other Systems: Consult manufacturer's guidelines.

Lubricant Capacities:

New Vintage Air-Supplied Sanden Compressor: No additional oil needed (Compressor is shipped with proper oil charge).

All Other Compressors: Consult manufacturer (Some compressors are shipped dry and will need oil added).

Safety Switches

Your Vintage Air system is equipped with a binary pressure safety switch. A binary switch disengages the compressor clutch in cases of extreme low pressure conditions (refrigerant loss) or excessively high head pressure (406 PSI) to prevent compressor damage or hose rupture. A trinary switch combines Hi/Lo pressure protection with an electric fan operation signal at 254 PSI, and should be substituted for use with electric fans. Compressor safety switches are extremely important since an A/C system relies on refrigerant to circulate lubricant.

Service Info:

Protect Your Investment: Prior to assembly, it is critical that the compressor, evaporator, A/C hoses and fittings, hardlines, condenser and receiver/drier remain capped. Removing caps prior to assembly will allow moisture, insects and debris into the components, possibly leading to reduced performance and/or premature failure of your A/C system. This is especially important with the receiver/drier.

Additionally, when caps are removed for assembly, **BE CAREFUL!** Some components are shipped under pressure with dry nitrogen.

Evacuate the System for 35-45 Minutes: Ensure that system components (Drier, compressor, evaporator and condenser) are at a temperature of at least 85°F. On a cool day, the components can be heated with a heat gun **or** by running the engine with the heater on before evacuating. Leak check and charge to specifications.

Bolts Passing Through Cowl and / or Firewall:

To ensure a watertight seal between the passenger compartment and the vehicle exterior, for all bolts passing through the cowl and/or firewall, Vintage Air recommends coating the threads with silicone prior to installation.

Heater Hose (not included with this kit):

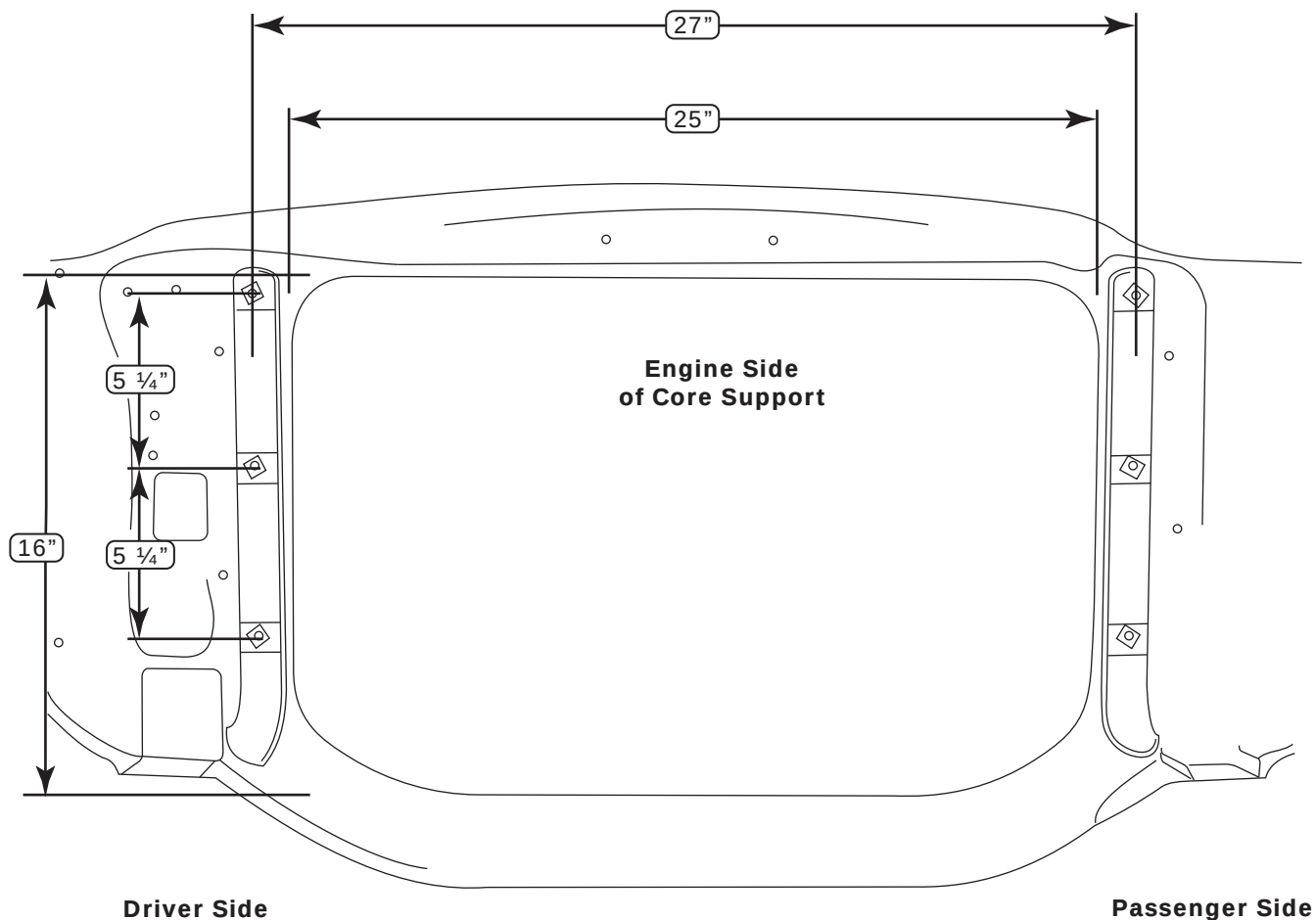
Heater hose may be purchased from Vintage Air (Part#31800-VUD) or your local parts retailer. Routing and required length will vary based on installer preference.



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Core Support Measurements

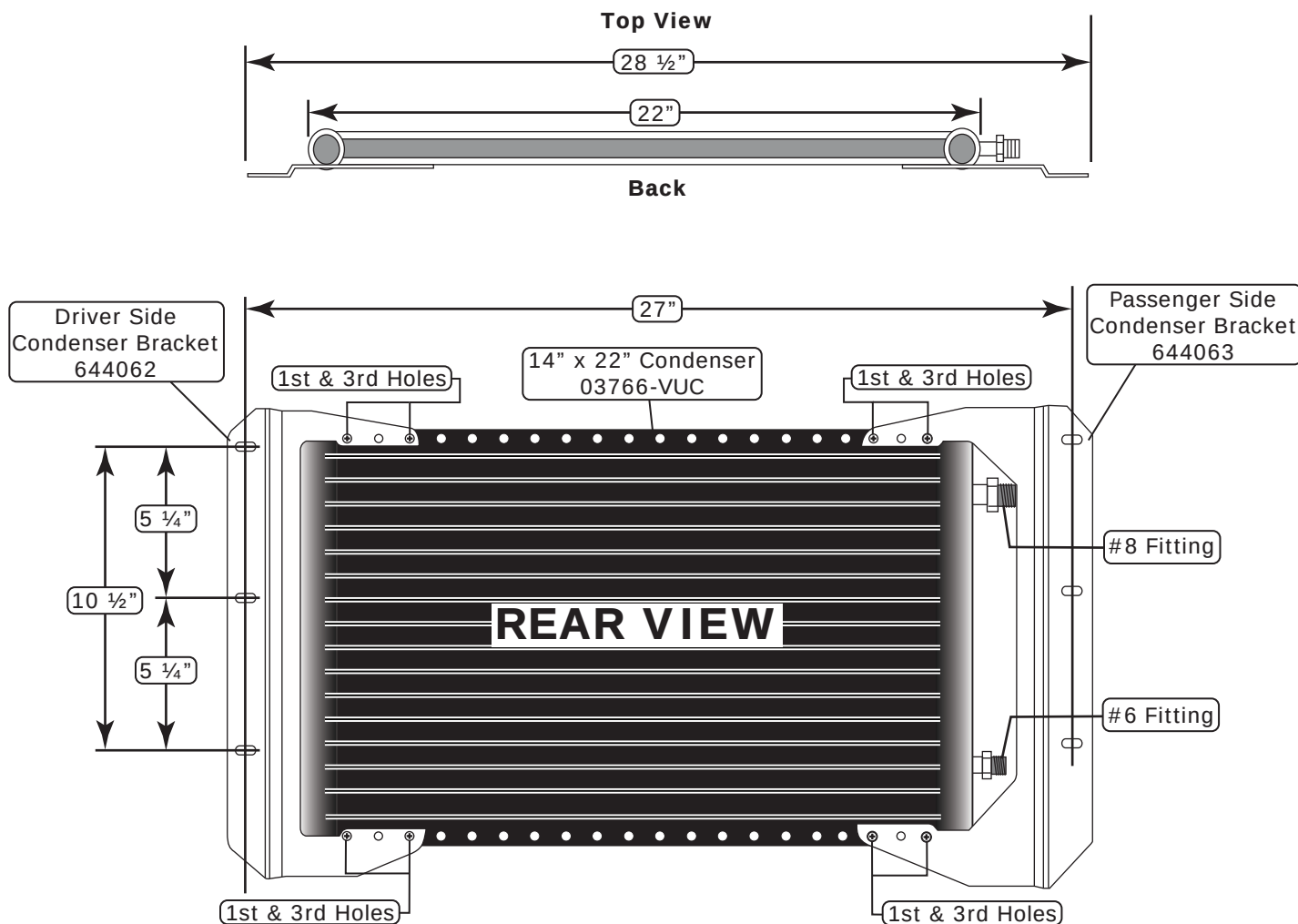
This kit was developed based on the measurements below, which were taken from a 1962 Chevrolet Impala with Factory Air core support.





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Condenser Dimensions



Engine Compartment Disassembly

NOTE: Before starting the installation, check the function of the vehicle (horn, lights, etc.) for proper operation, and study the instructions, illustrations, & diagrams.

Perform the following:

1. Disconnect the battery.
2. Drain the radiator.
3. Remove the upper and lower radiator hoses.
4. Remove the radiator (retain).



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Core Support Modification

1. Cut out the template provided on Page 12, and place it on the engine side of the core support as shown in Figure 1, below. Mark hole location.
2. Using a 1 1/4" hole saw, drill a hole in the core support (See Figure 1, below).

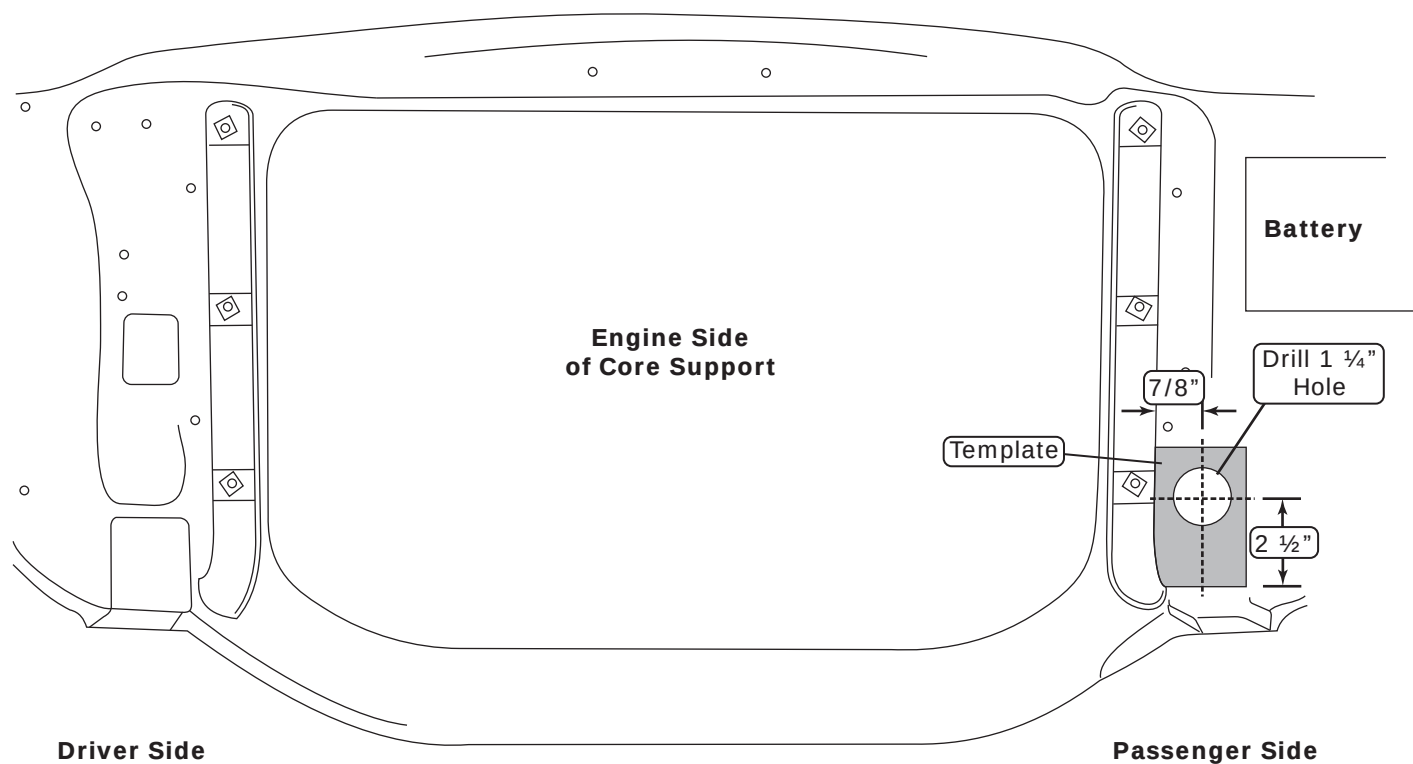


Figure 1



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Drier Bracket Installation

1. On a workbench, install the drier mounting bracket onto the condenser using (4) 10-24 x 3/8" pan head screws and (4) 10-24 nuts with star washers (See Figure 1, below). **NOTE: The bracket mounts through the 1st and 3rd holes of the condenser.**

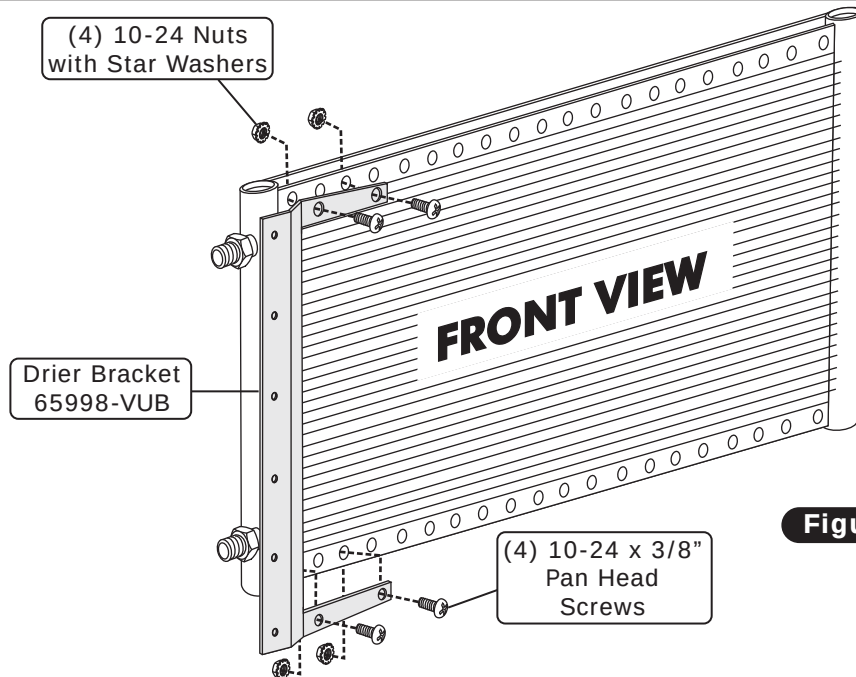


Figure 1

Mounting Bracket Installation

1. Install the condenser mounting brackets onto the condenser using (8) 10-24 x 3/8" pan head screws and (8) 10-24 nuts with star washers (See Figure 1, below). **NOTE: The brackets mount through the 1st and 3rd holes of the condenser.**

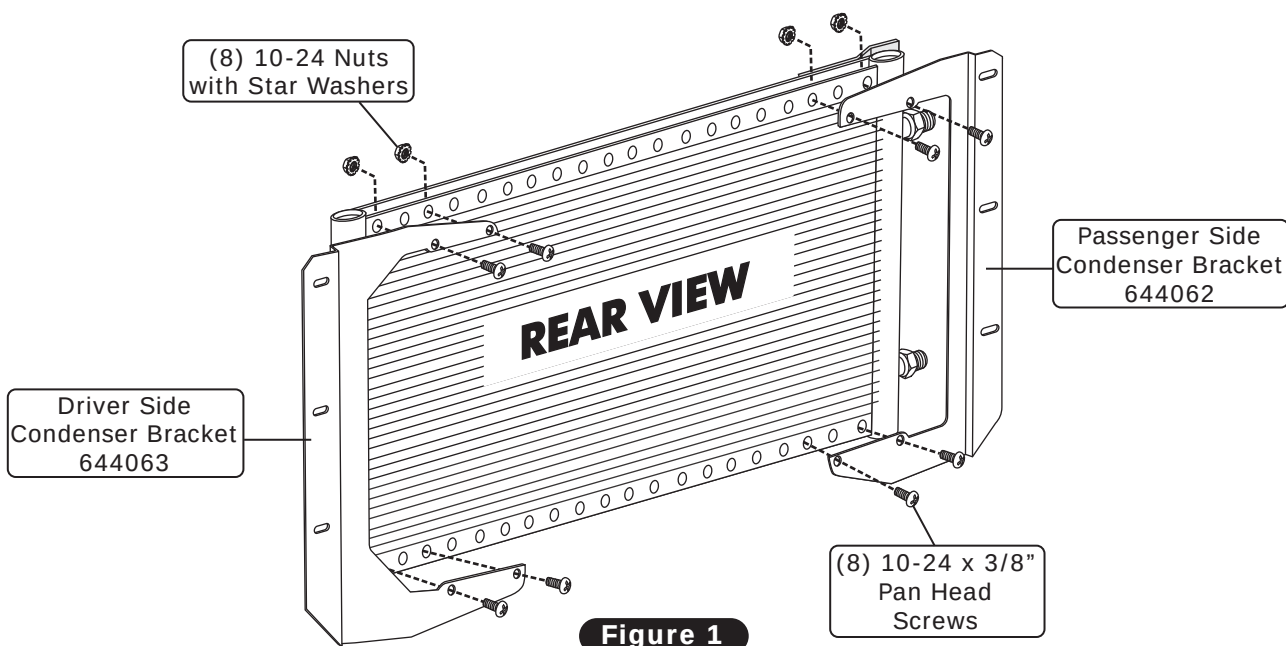


Figure 1



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Drier Installation

NOTE: Do not remove the caps from the drier. The drier contains a desiccant that will quickly absorb moisture from the air, causing it to lose effectiveness. For this reason, Vintage Air recommends that the drier remains capped until the installer is ready to evacuate the system.

Perform the following:

1. Install the (2) drier clamps onto the drier (See Figure 1, below).
2. Using (2) #10 x 1/2" sheet metal screws, secure the drier to the 4th and 6th holes from the bottom of the drier bracket (See Figure 1, below). **NOTE: Refrigerant flow through the drier is IN from condenser, OUT to evaporator.**

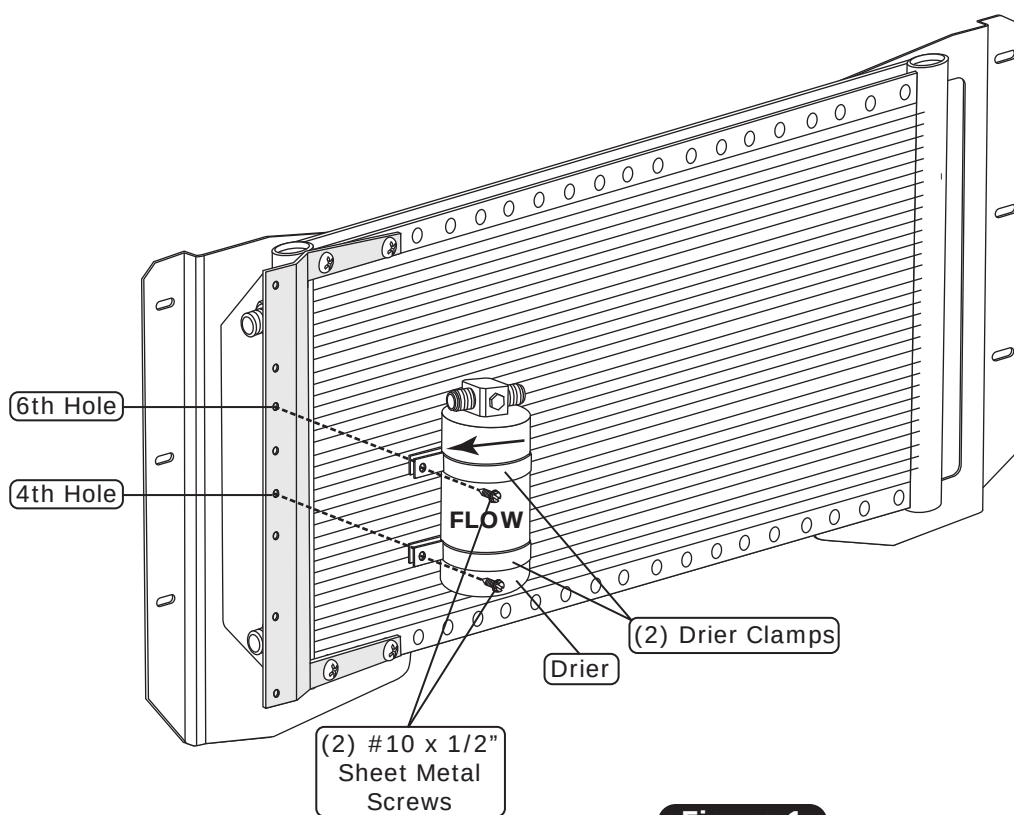
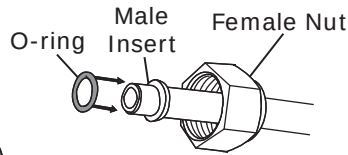
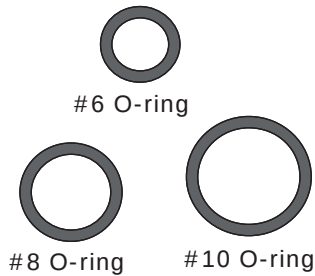


Figure 1



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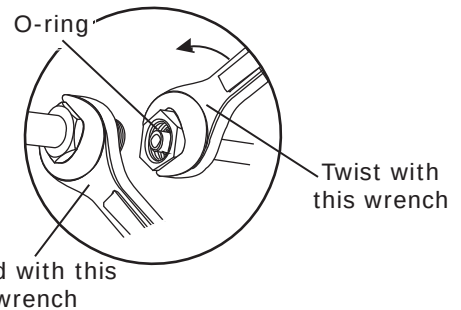
Lubricating O-rings



For a proper seal of fittings: Install supplied O-rings as shown and lubricate with refrigerant oil.

Refrigerant Oil
for O-rings

O-ring installs
over male insert
to swaged lip



NOTE: Standard torque specifications:

#6: 11 to 13 ft.-lb.

#8: 15 to 20 ft.-lb.

#10: 21 to 27 ft.-lb.

#6 Condenser / Drier Hardline Installation

1. Lubricate (2) #6 O-rings (See Lubricating O-rings, above), and install the #6 condenser/drier hardline as shown in Figure 1, below. Tighten fittings as shown in Lubricating O-rings, above.

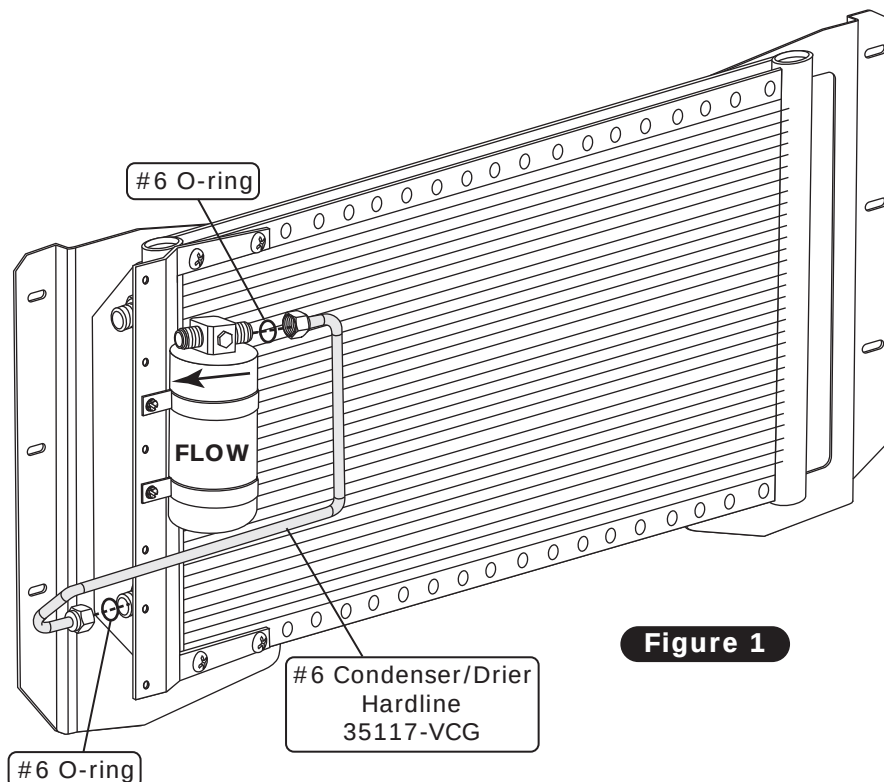


Figure 1



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Condenser Assembly Installation

1. Install the condenser assembly onto the engine side of the core support as shown in Figure 1, below.
2. Using the OEM hardware, secure the condenser assembly between the radiator and the core support (See Figure 2, below).

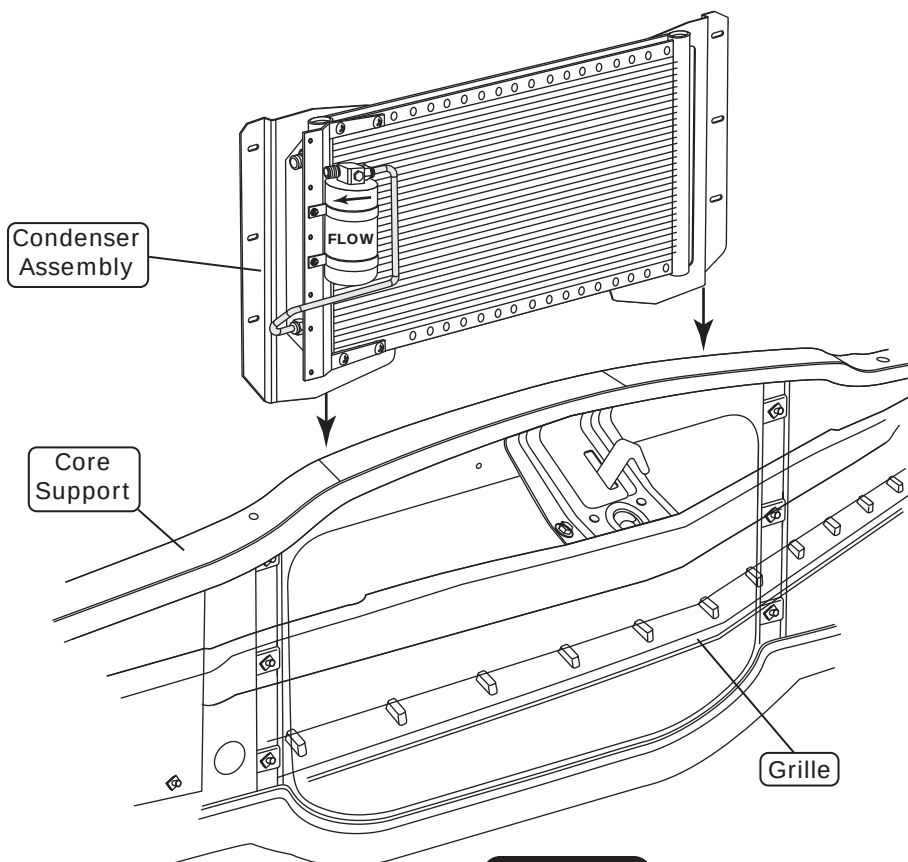


Figure 1

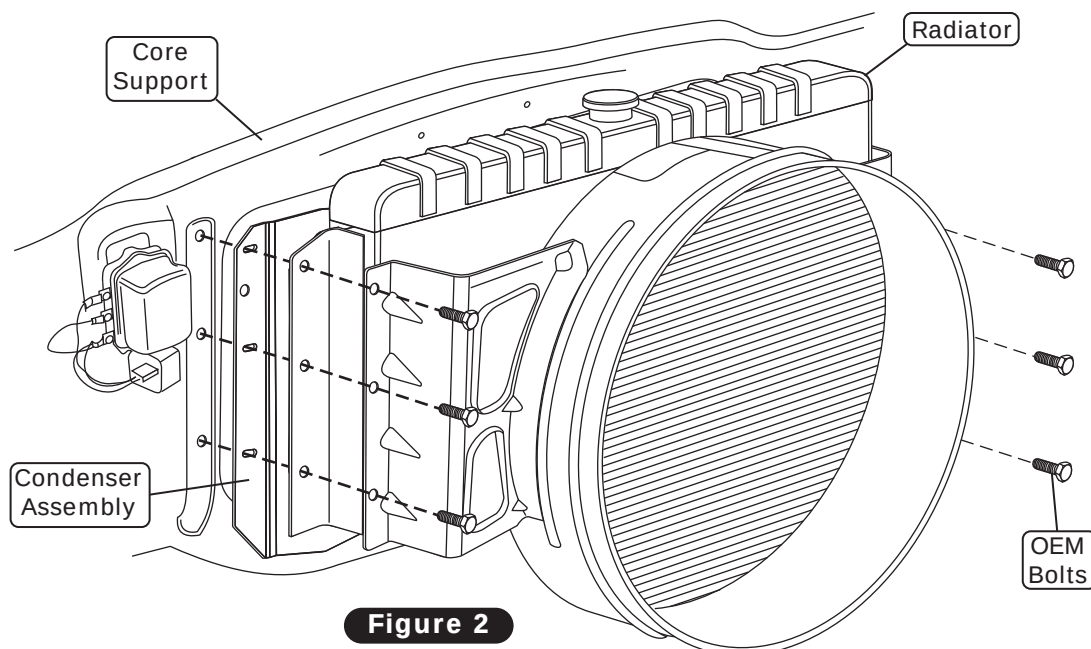


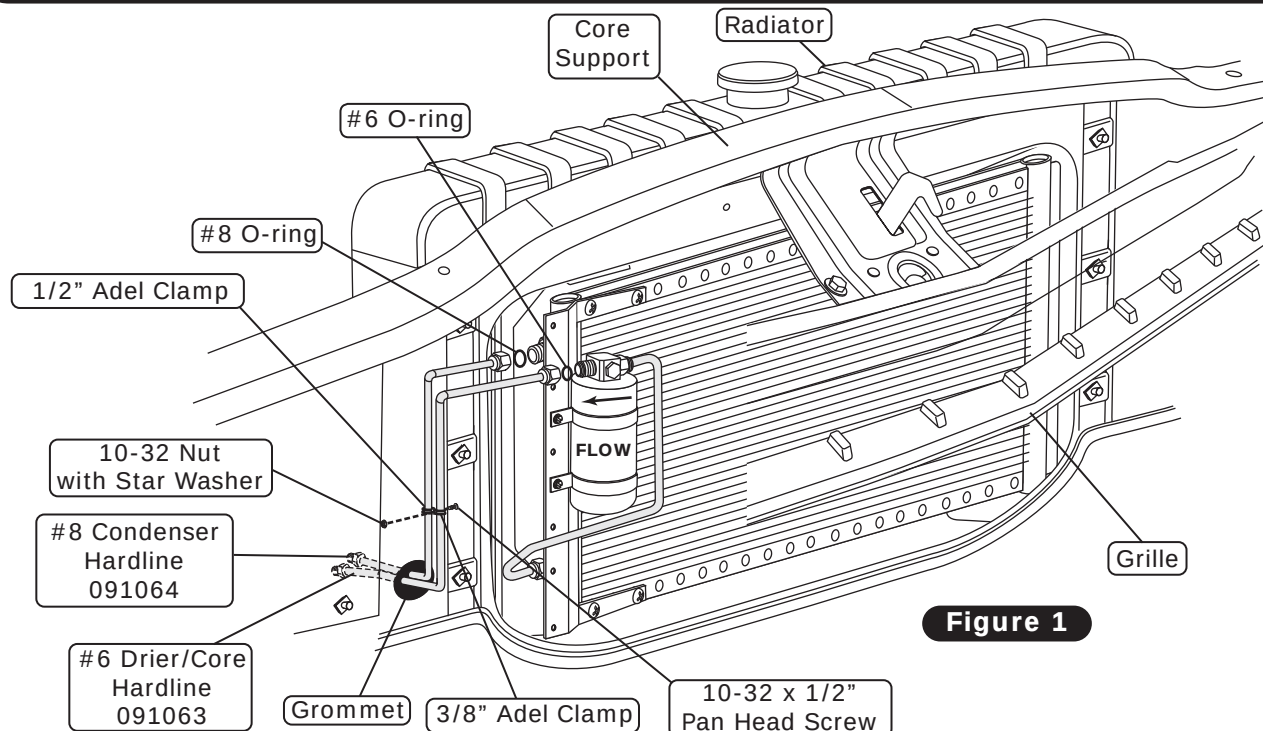
Figure 2



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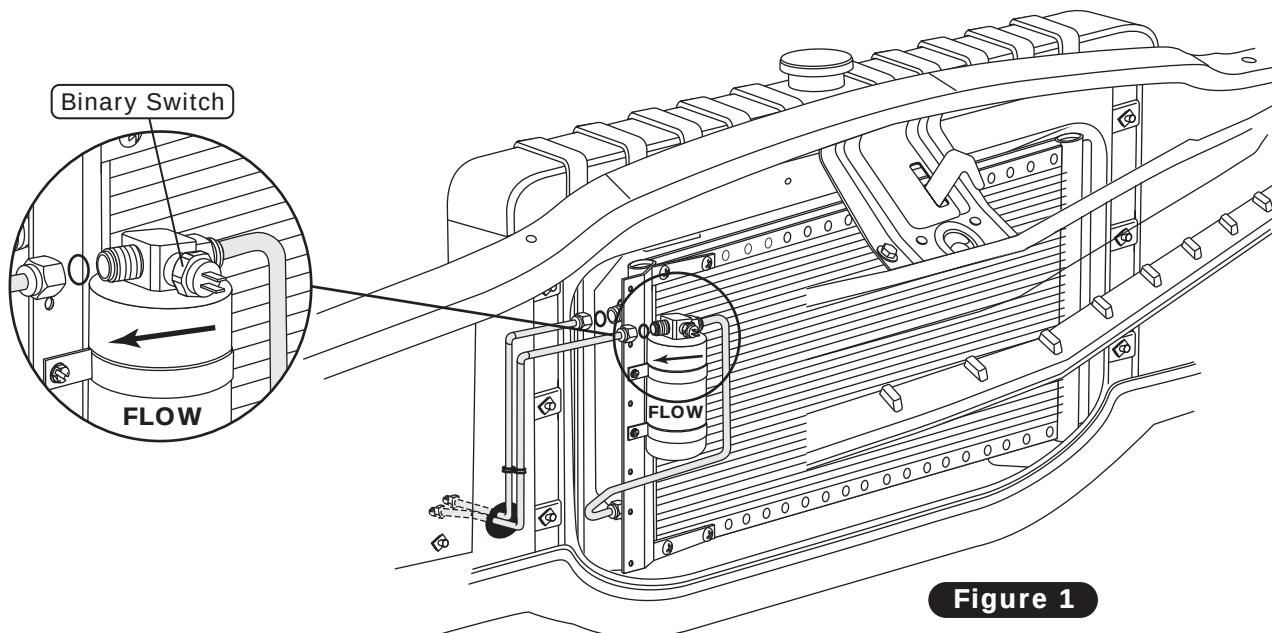
#6 and #8 Hardline Installation

1. Install the grommet into the core support (See Figure 1, below).
2. Lubricate a #6 O-ring and a #8 O-ring (See Lubricating O-rings, Page 9), and install the #6 drier/core hardline and the #8 condenser hardline as shown in Figure 1, below. Tighten fittings as shown in Lubricating O-rings, Page 9.
3. Install (2) Adel clamps as shown in Figure 1, below.



Binary Switch Installation

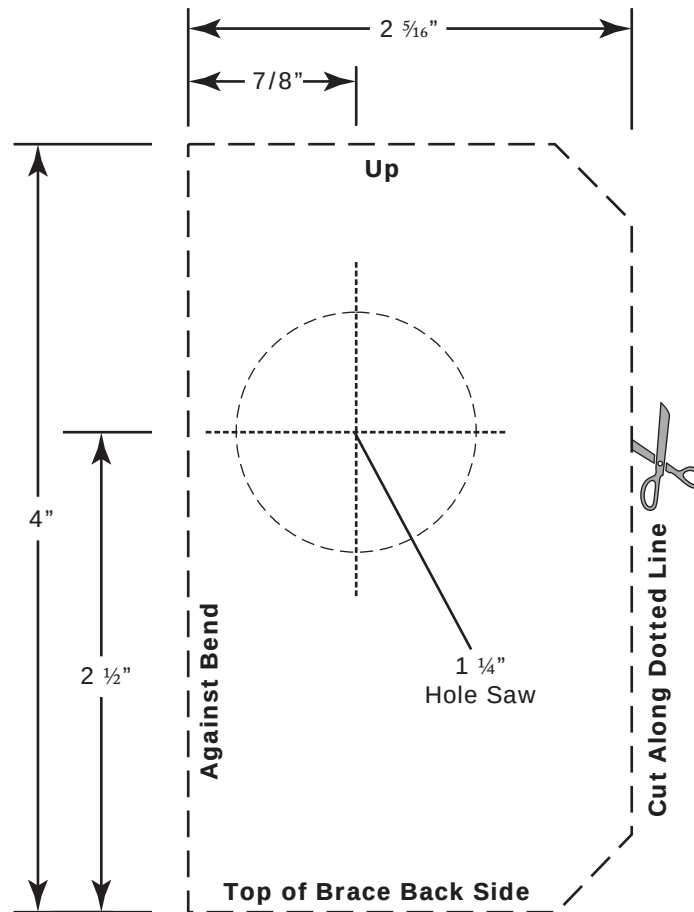
1. Install the binary switch onto the drier as shown in Figure 1, below.





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Core Support Modification Template



NOTE: Due to printing variances, measure the line below before using this template. If template is scaled properly, the line should measure 6 inches.



Packing List: Condenser Kit (021062)

	Qty		Part No	Description
	1	☐	11079-VUS	Binary Switch, Male
	2	☐	18247-VUB	Screw, #10 x 1/2", Sheet Metal
	12	☐	18249-VUB	Screw, 10-24 x 3/8", Pan Head
	1	☐	18250-VUB	Screw, 10-32 x 1/2", Pan Head
	1	☐	18251-VUB	Nut with Star Washer, 10-32
	12	☐	18260-VUB	Nut with Star Washer, 10-24
	1	☐	23135-VUW	Compressor Lead
	1	☐	31600-VUD	Adel Clamp, 3/8" I.D.
	1	☐	31603-VUD	Adel Clamp, 1/2" I.D.
	1	☐	33134-VUI	Grommet, 2-Hole

Packed By: _____

O-rings / Refrigerant Oil

	Qty		Part No	Description
	4	☐	33857-VUF	O-ring, #6
	3	☐	33858-VUF	O-ring, #8
	1	☐	41117-VUP	Refrigerant Oil

Packed By: _____

Brackets

	Qty		Part No	Description
	2	☐	07113-VUB	Drier Clamp
	1	☐	644062	Bracket, Passenger-Side Mounting
	1	☐	644063	Bracket, Driver-Side Mounting
	1	☐	65998-VUB	Bracket, Drier

Packed By: _____

Hardlines / Hoses

	Qty		Part No	Description
	1	☐	091063	Hardline, #6 Core/Drier
	1	☐	091064	Hardline, #8 Condenser
	1	☐	35117-VCG	Hardline, #6 Condenser/Drier

Packed By: _____

Condenser / Drier

	Qty		Part No	Description
	1	☐	03766-VUC	Condenser, 14" x 22", Parallel Flow
	1	☐	07321-VUC	Drier

Packed By: _____

Inspected By: _____
Date: _____

**NOTE: Images may not depict actual parts and quantities.
Refer to packing list for actual parts and quantities.**