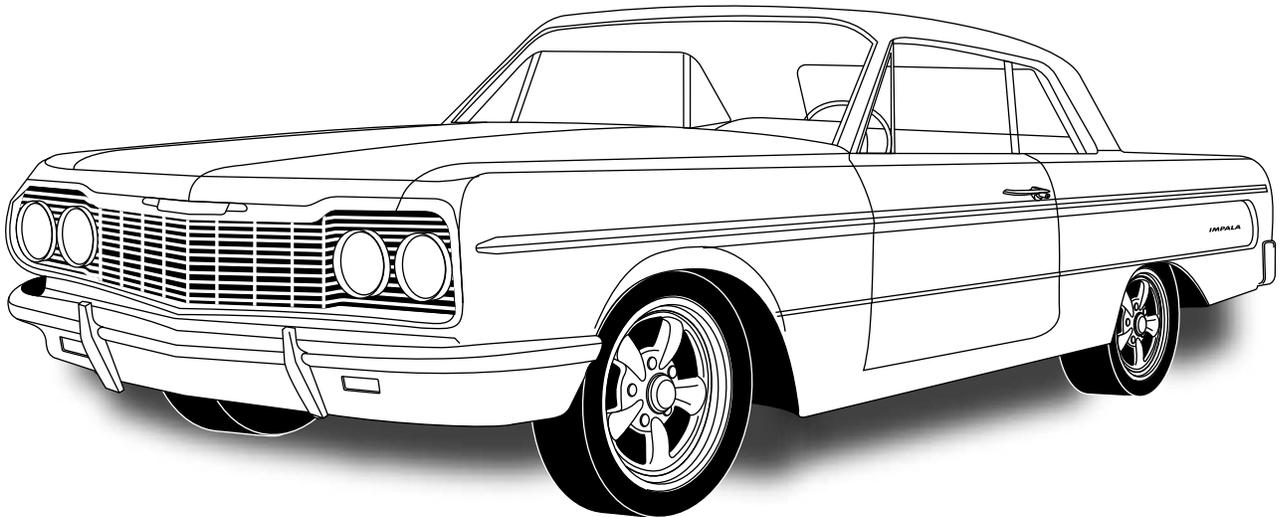




an ISO 9001:2008 Registered Company

# 1964 Chevrolet Impala

Condenser Kit *with* Drier  
(021063)



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# Table of Contents

**Thank you for purchasing this condenser kit from Vintage Air. When installing these components as part of a complete SureFit™ system, Vintage Air recommends working from front to back on the vehicle, installing the condenser kit, hose kit, and compressor first, followed by the wiring, evaporator, and finally the control panel.**

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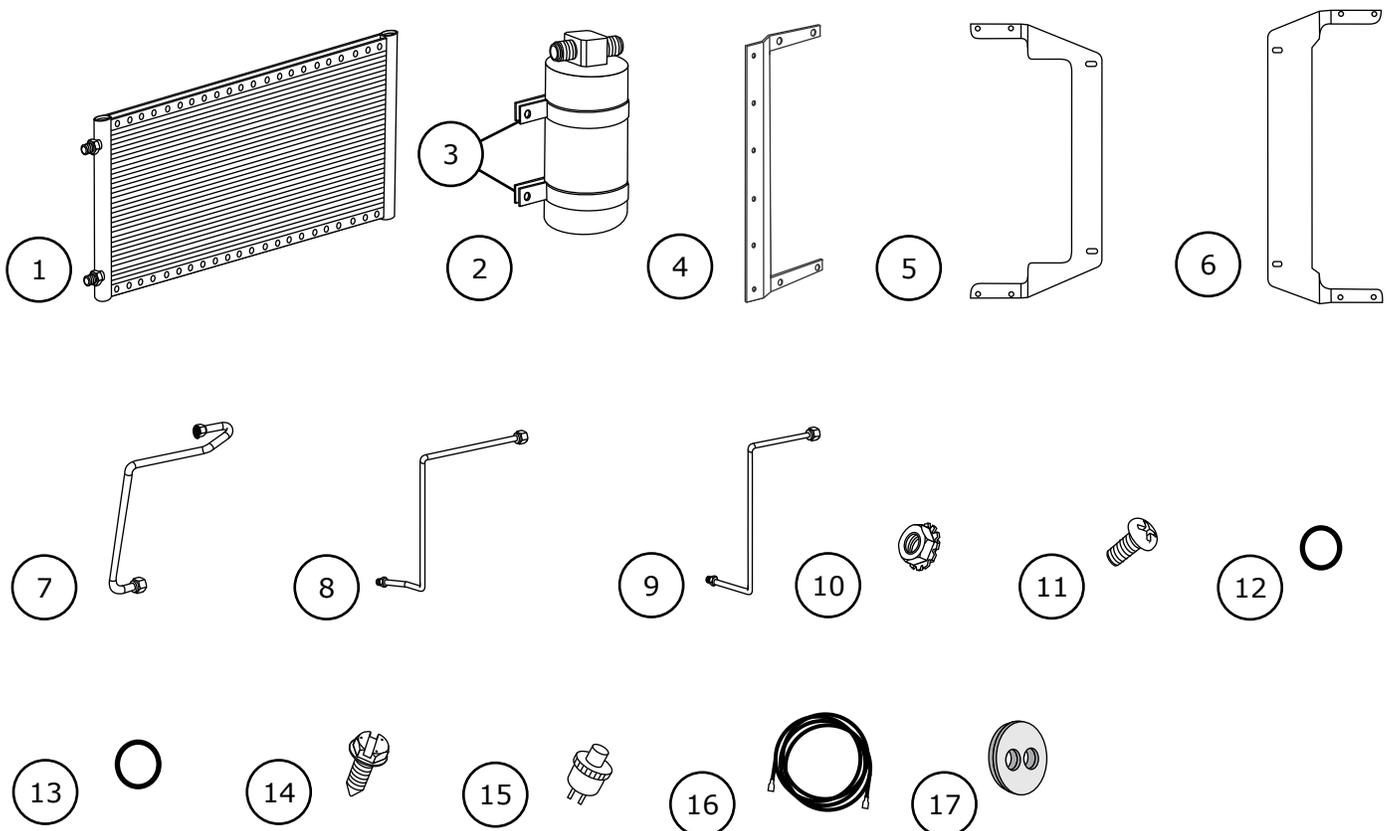


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## Packing List: Condenser Kit (021063)

No.	Qty.	Part No.	Description
1.	1	03766-VUC	Condenser, 14" x 22", Parallel Flow
2.	1	07321-VUC	Drier
3.	2	07113-VUB	Drier Clamp
4.	1	65998-VUB	Bracket, Drier
5.	1	644064	Bracket, Passenger Side Mounting
6.	1	644065	Bracket, Driver Side Mounting
7.	1	35056-LCG	Hardline, #6 Condenser/Drier
8.	1	091057	Hardline, #6 Drier/Core
9.	1	091064	Hardline, #8 Condenser
10.	12	18260-VUB	Nut, 10-24 with Star Washer
11.	12	18249-VUB	Screw, 10-24 x 3/8", Pan Head
12.	3	33857-VUF	O-ring, #6
13.	1	33858-VUF	O-ring, #8
14.	2	18247-VUB	Screw, #10 x 1/2", Sheet Metal
15.	1	11079-VUS	Binary Switch, Male
16.	1	23135-VUW	Compressor Lead
17.	1	33134-VUI	Grommet

**\*\* 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.**



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



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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. (1 lb., 12 oz.) 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 remained 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):

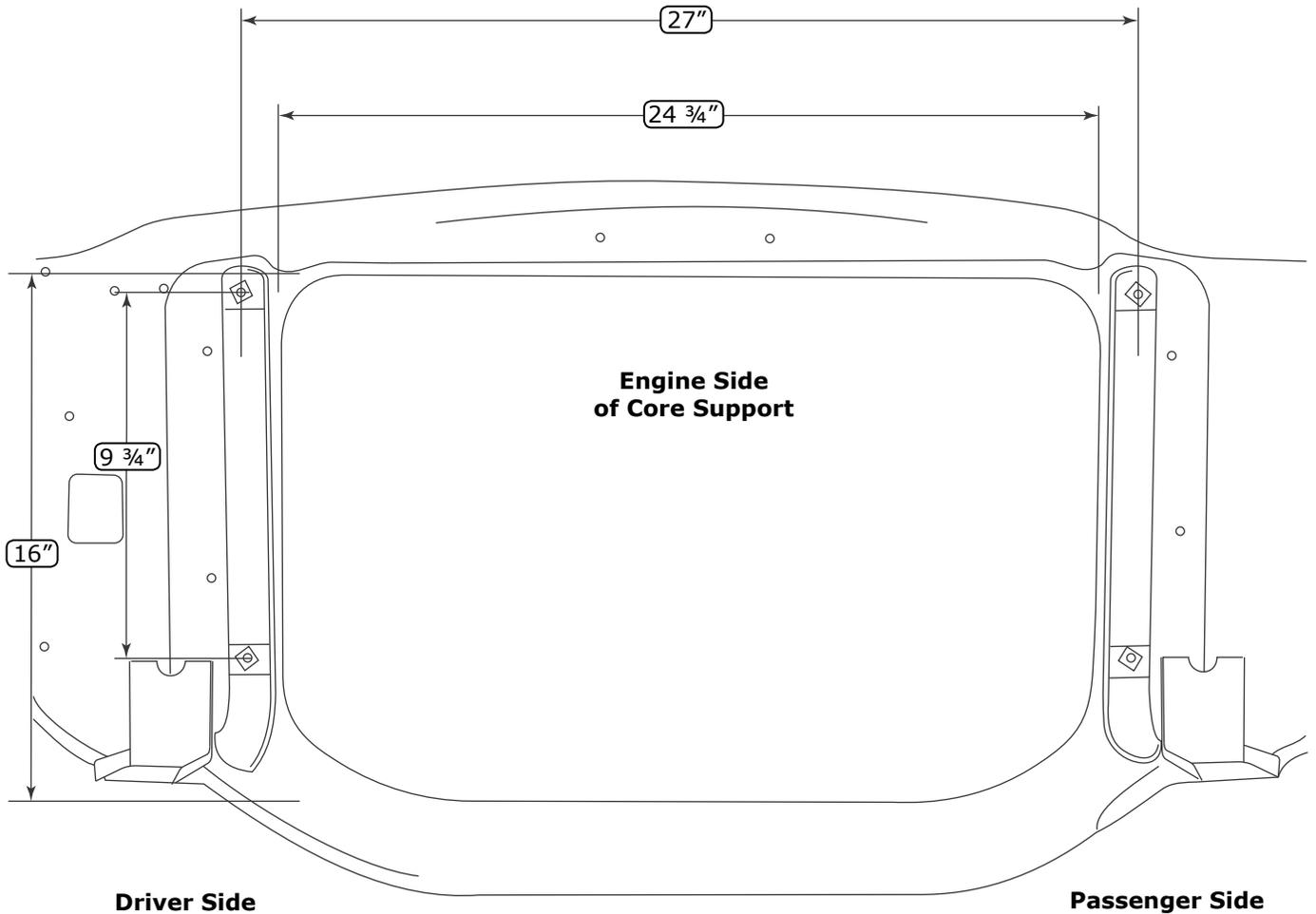
Heater hose may be purchased from Vintage Air (Part# 31800-VUD) or your local parts retailer. Routing and required length will vary based on installer preference.



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## Core Support Measurements

This kit was developed based on the measurements below, which were taken from a 1964 Chevrolet Impala with Factory Air core support.

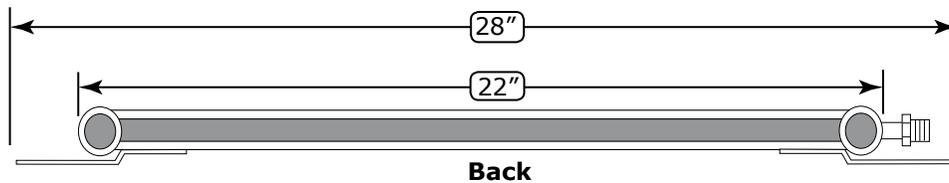




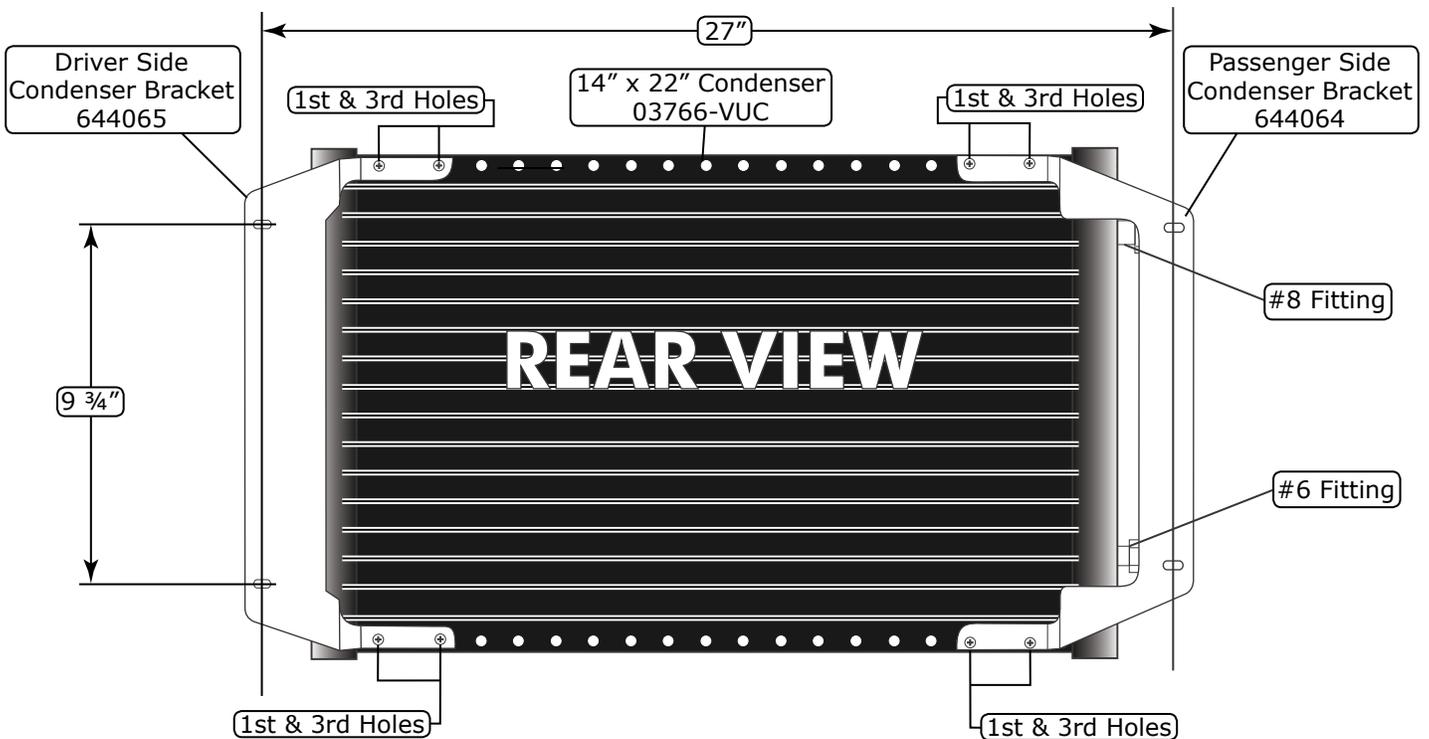
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## Condenser Dimensions

Top View



Back



## 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 battery.
2. Drain radiator.
3. Remove upper and lower radiator hoses.
4. Remove radiator (retain).



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## Core Support Modification

1. Cut out the template provided on Page 13, 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).

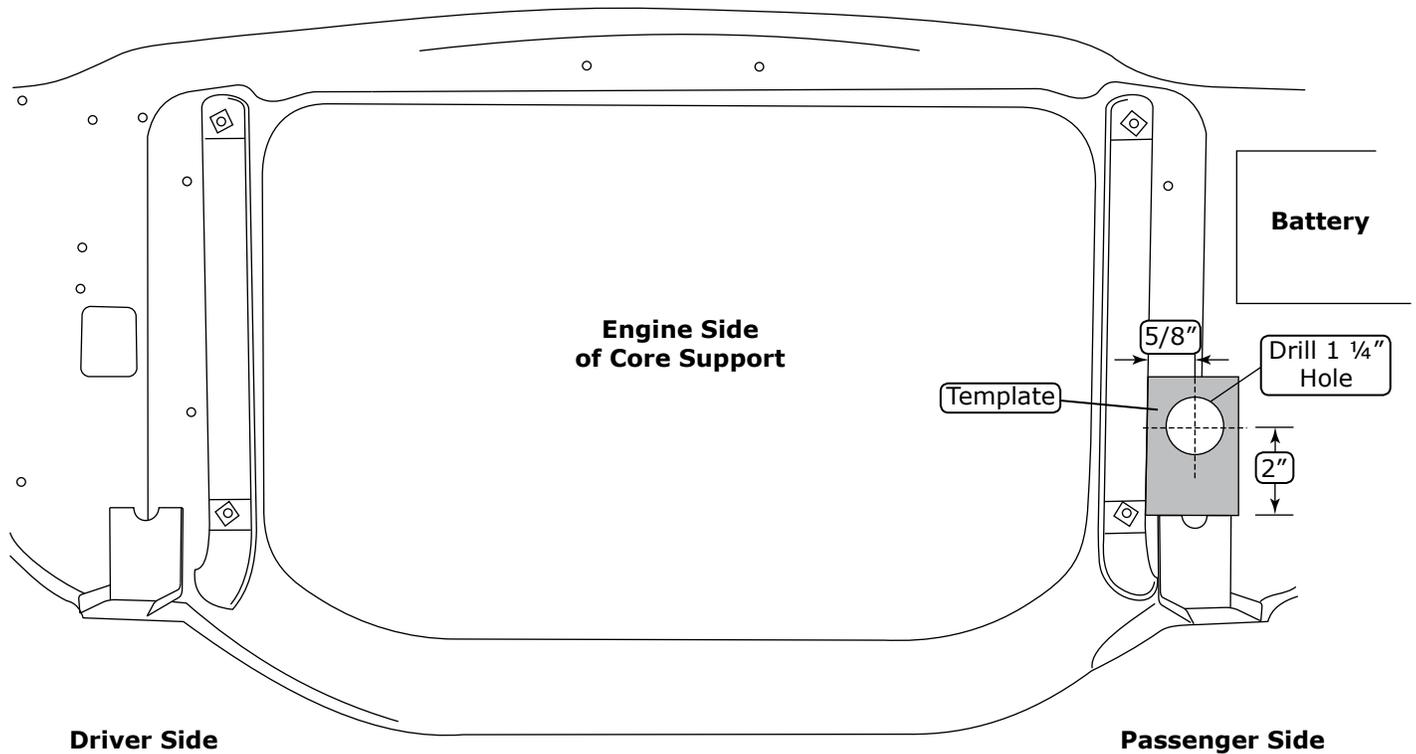


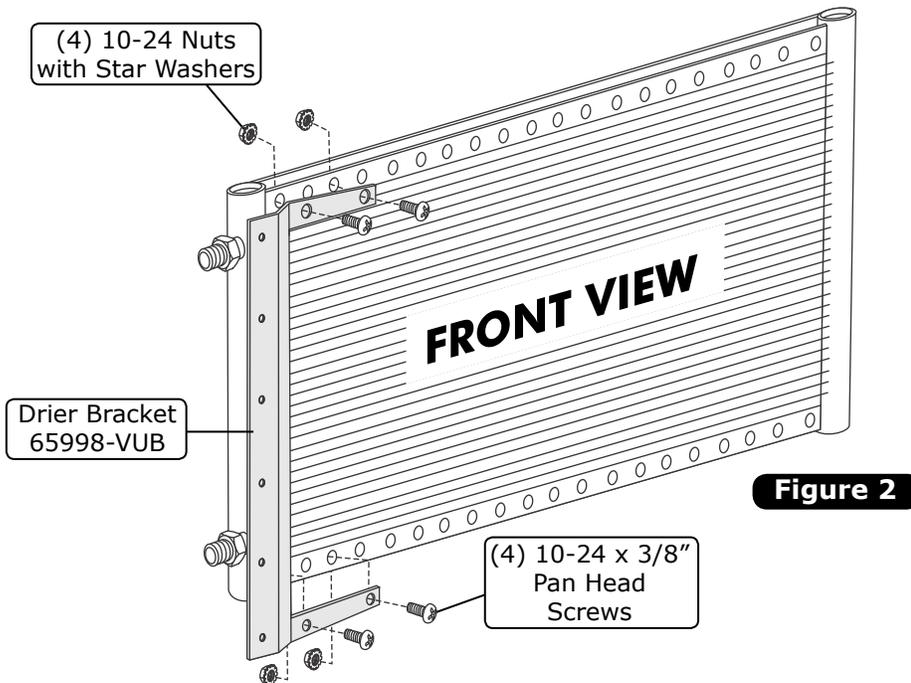
Figure 1



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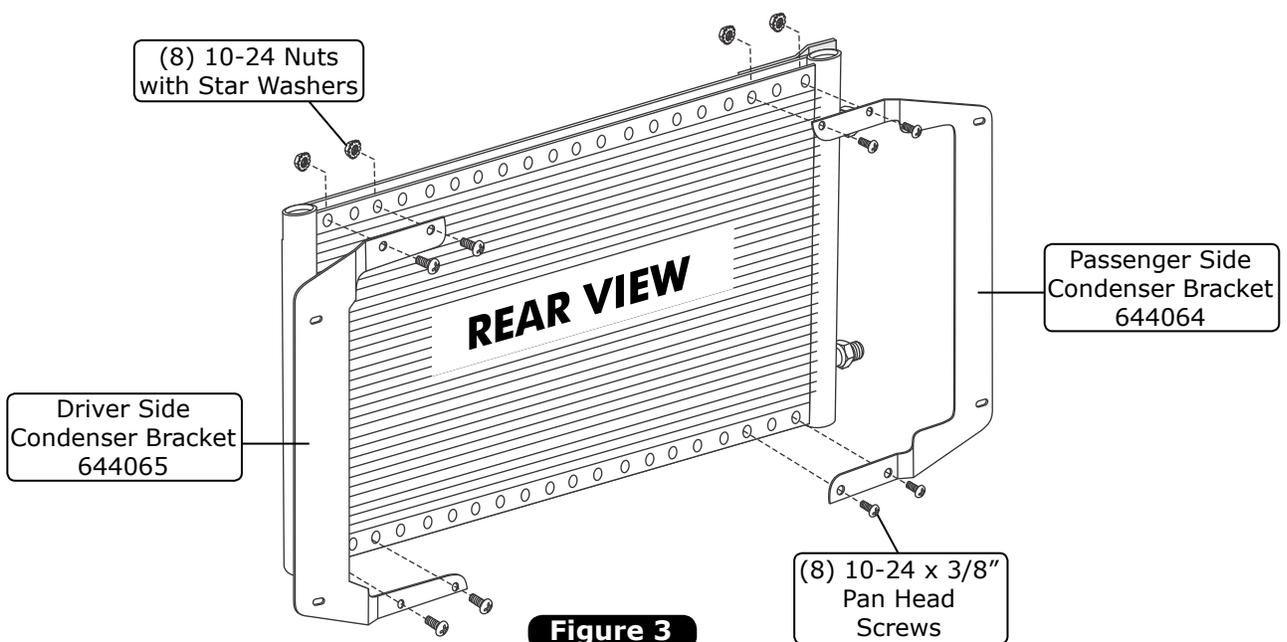
## Drier Bracket Installation

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 2, below). **NOTE: The bracket mounts through the 1st and 3rd holes of the condenser.**



## 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 3, below). **NOTE: The brackets mount through the 1st and 3rd holes of the condenser.**





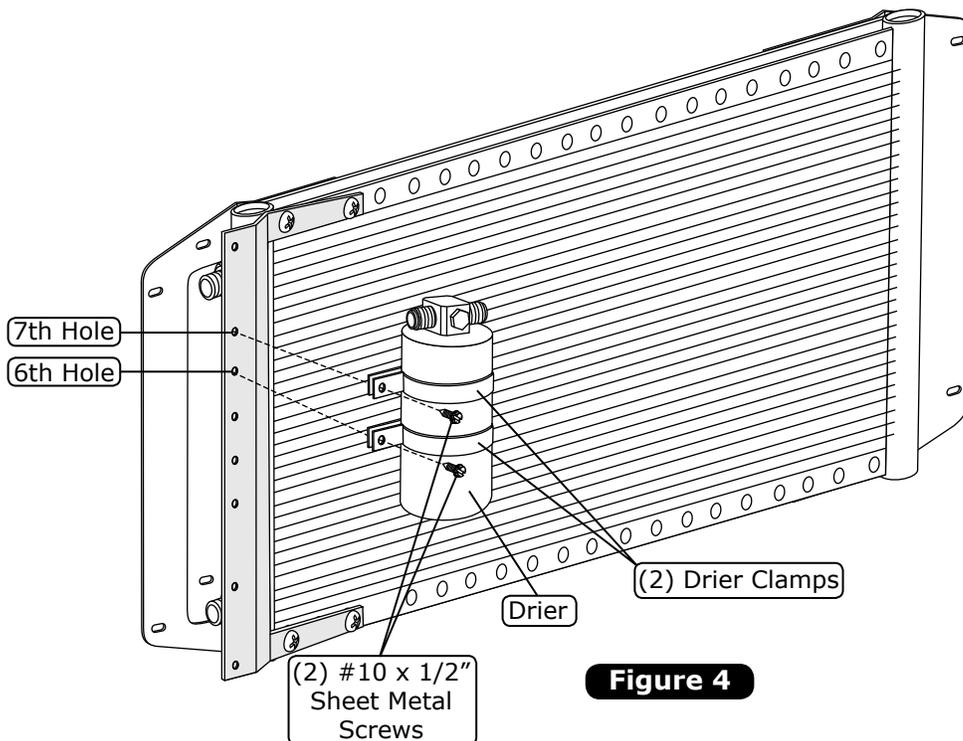
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## Drier Installation

**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:**

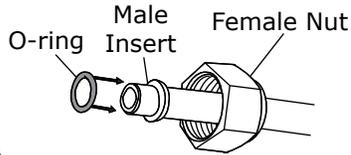
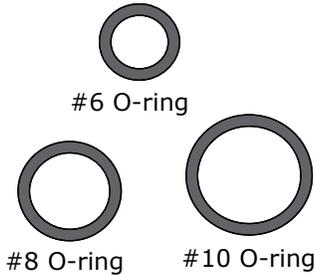
1. Install the (2) drier clamps onto the drier (See Figure 4, below).
2. Using (2) #10 x 1/2" sheet metal screws, secure the drier to the 6th and 7th holes from the bottom of the drier bracket (See Figure 4, below). **NOTE: Refrigerant flow through the drier is IN from condenser, OUT to evaporator.**





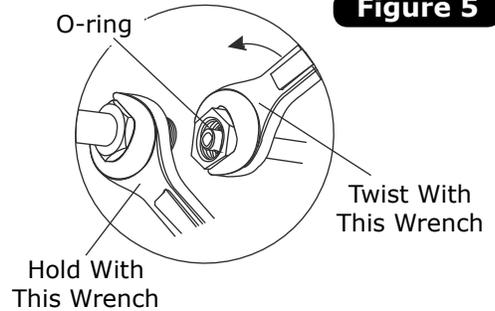
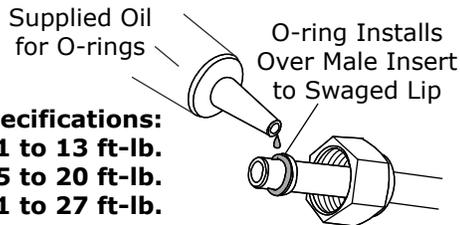
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## Lubricating O-rings



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

Figure 5



**NOTE: Standard torque specifications:**  
#6: 11 to 13 ft-lb.  
#8: 15 to 20 ft-lb.  
#10: 21 to 27 ft-lb.

## Hardline Installation

1. Lubricate (2) #6 O-rings (See Figure 5, above), and install the #6 condenser/drier hardline as shown in Figure 6, below. Tighten fittings as shown in Figure 5, above.

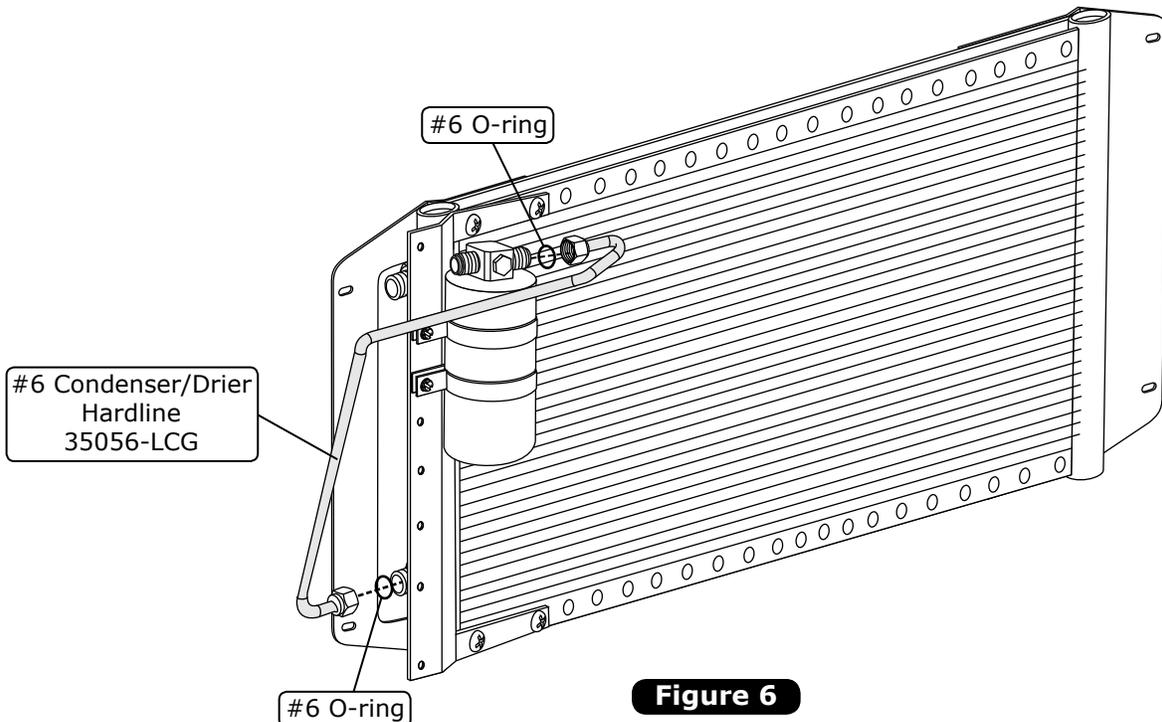


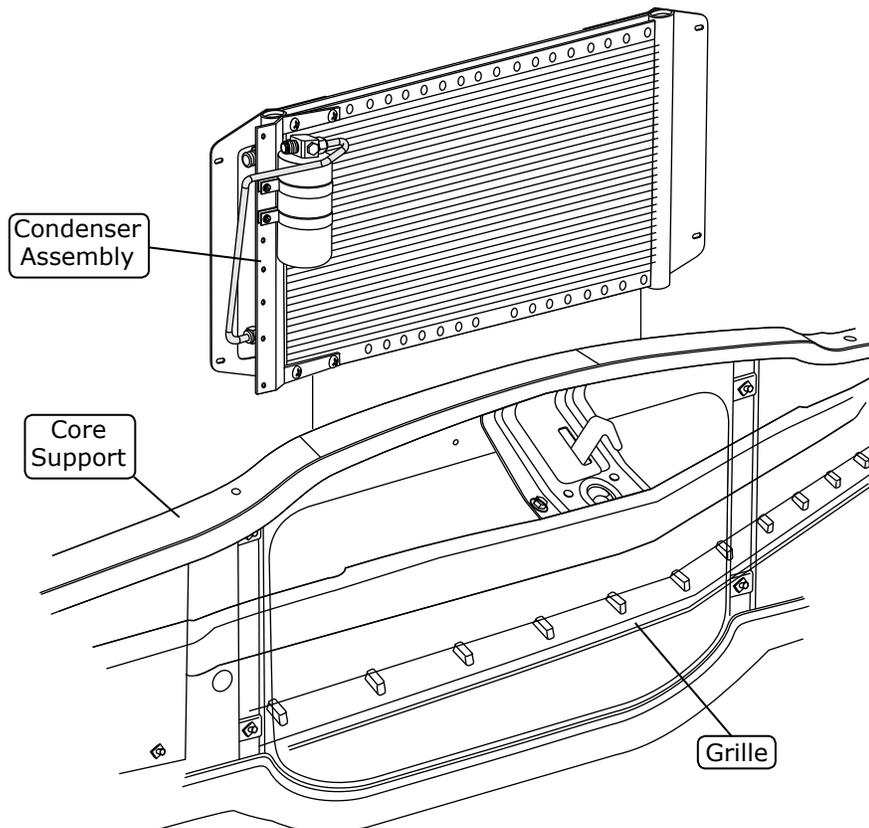
Figure 6



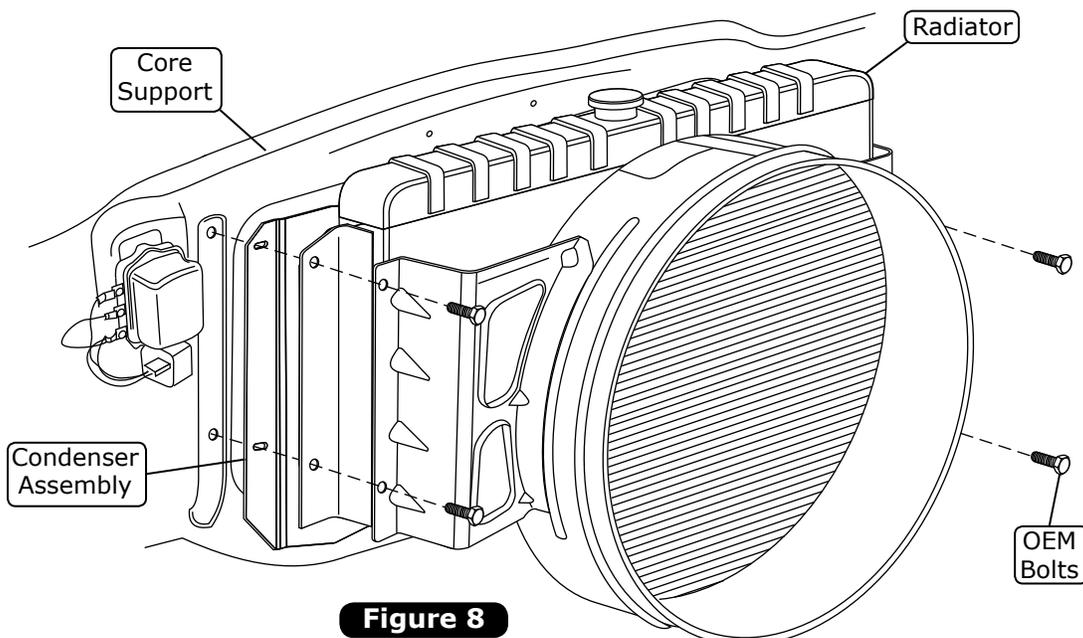
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## Condenser Assembly Installation

1. Install the condenser assembly onto the engine side of the core support as shown in Figure 7, below.
2. Using the OEM hardware, secure the condenser assembly between the radiator and the core support (See Figure 8, below).



**Figure 7**



**Figure 8**



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## Hardline Installation (Cont.)

1. Install the grommet into the core support (See Figure 9, below).
2. Lubricate a #6 O-ring and a #8 O-ring (See Figure 5, Page 10), and install the #6 drier/core hardline and the #8 condenser hardline as shown in Figure 9, below. Tighten fittings as shown in Figure 5, Page 10.

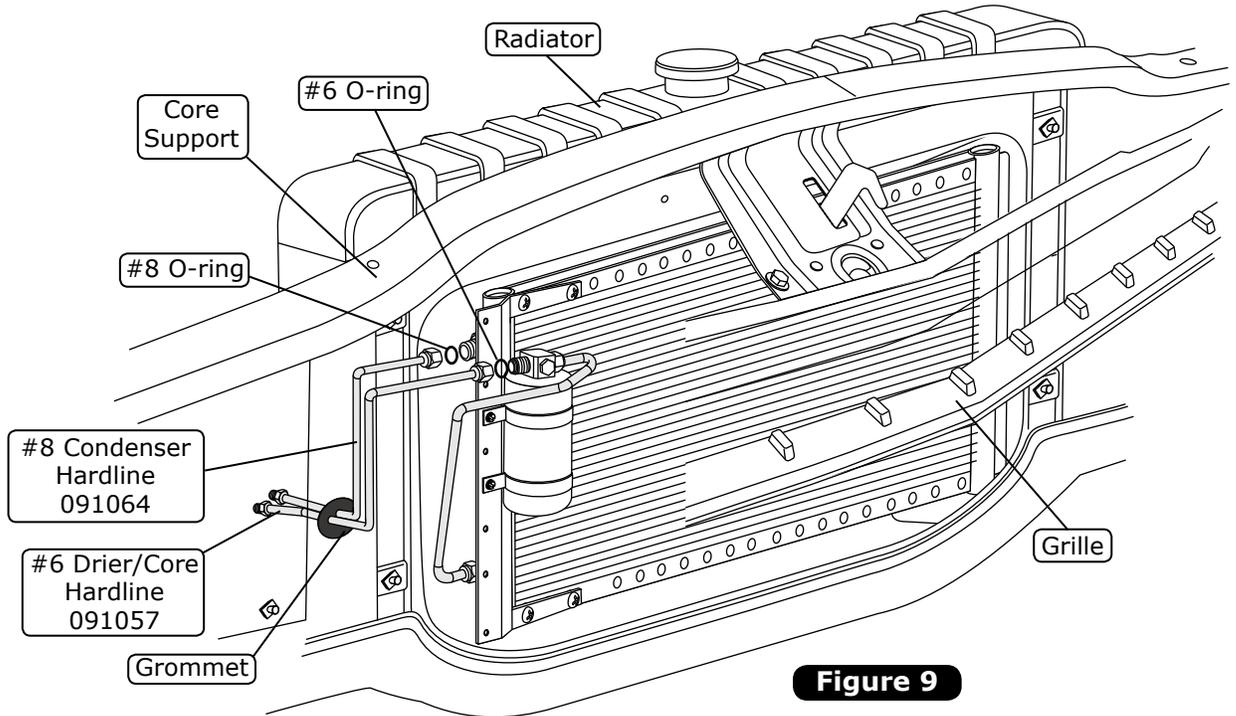


Figure 9

## Binary Switch Installation

1. Install the binary switch onto the drier as shown in Figure 10, below.

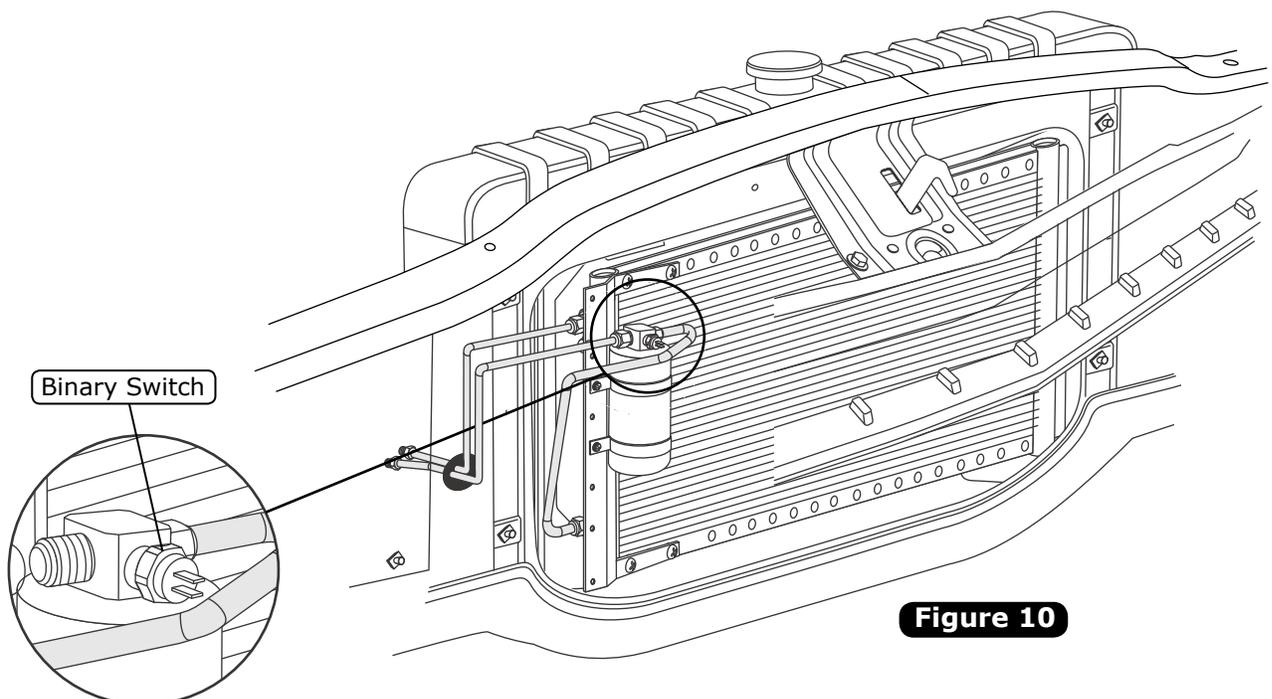
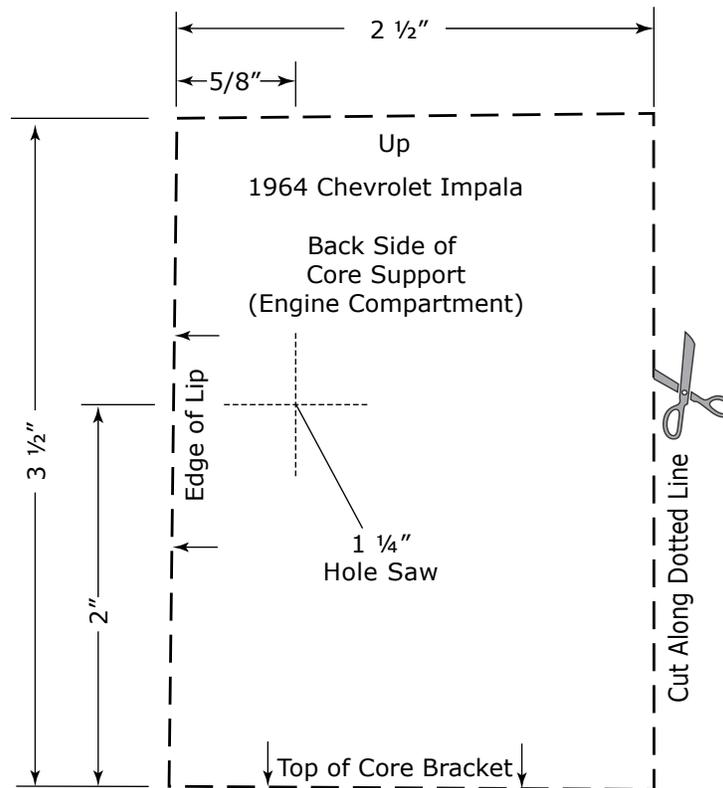


Figure 10

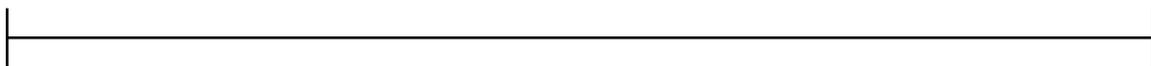


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# Core Support Modification Template



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







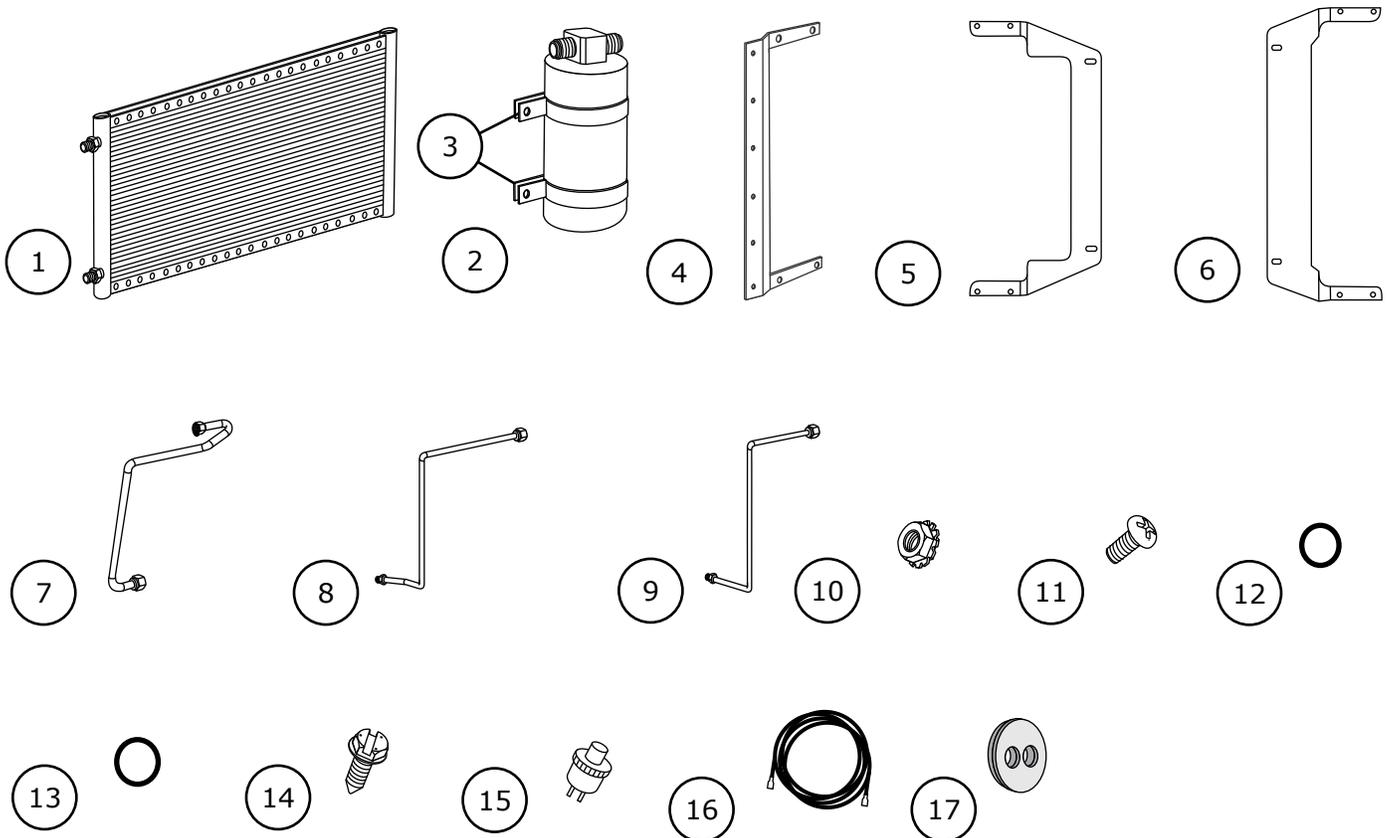


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15.	1	11079-VUS	Binary Switch, Male
16.	1	23135-VUW	Compressor Lead
17.	1	33134-VUI	Grommet

Checked By: \_\_\_\_\_  
Packed By: \_\_\_\_\_  
Date: \_\_\_\_\_



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Refer to packing list for actual parts and quantities.**