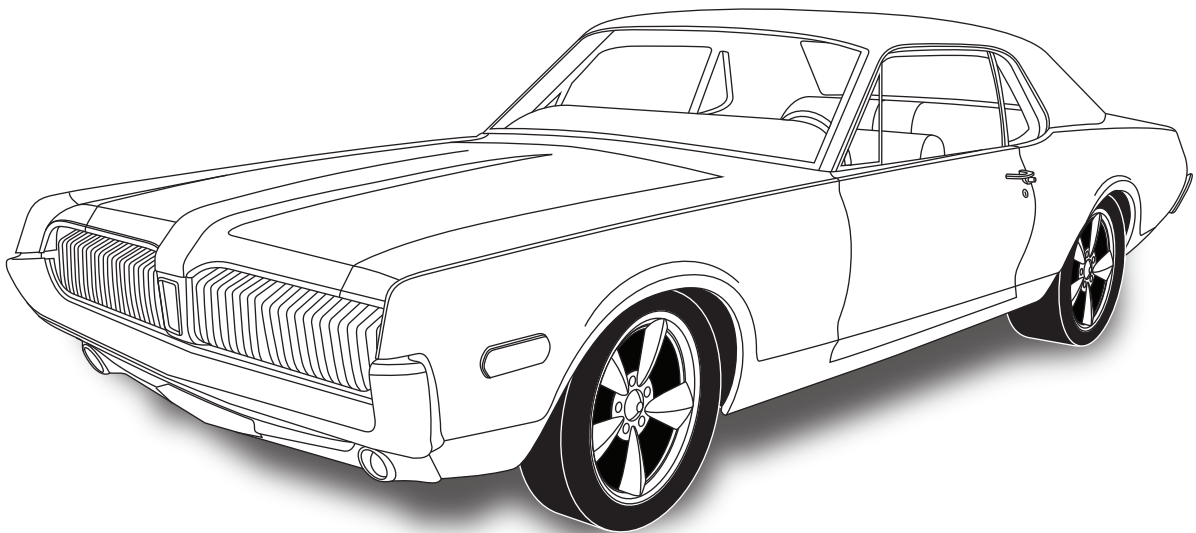




1967-68 Mercury Cougar

Condenser Kit *with* Drier
(011067)



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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):

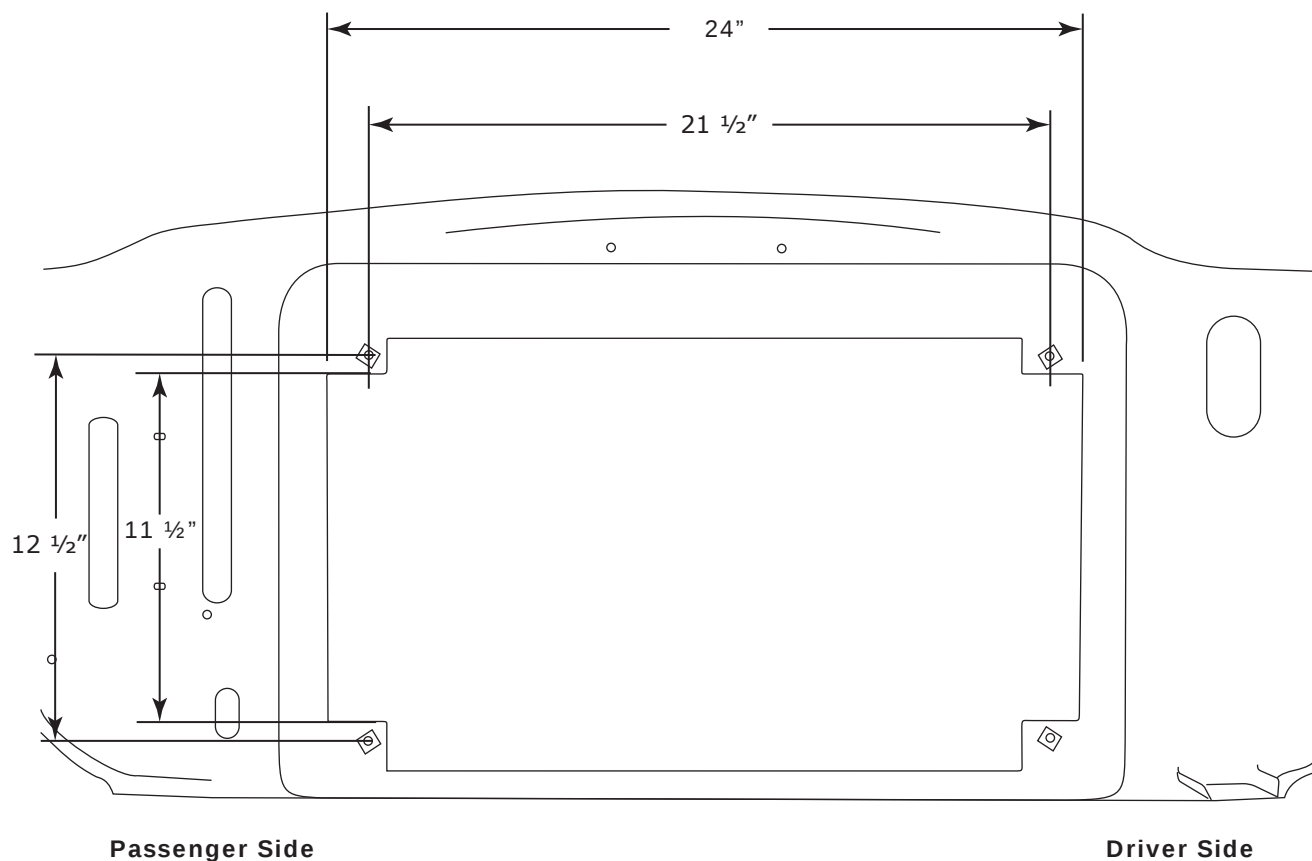
Heater hose may be purchased from Vintage Air (Part#31800-VUD) or your local parts retailer. Routing and required length will vary based on installer preference.



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Core Support Measurements

This kit was developed based on the measurements below, which were taken from a 1968 Ford Mustang with Factory Air core support.





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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 radiator (retain).
4. Remove the OEM fan and fan shroud (retain).

Drier Bracket Installation

1. 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: Brackets mount through the 1st and 3rd holes in the condenser.**

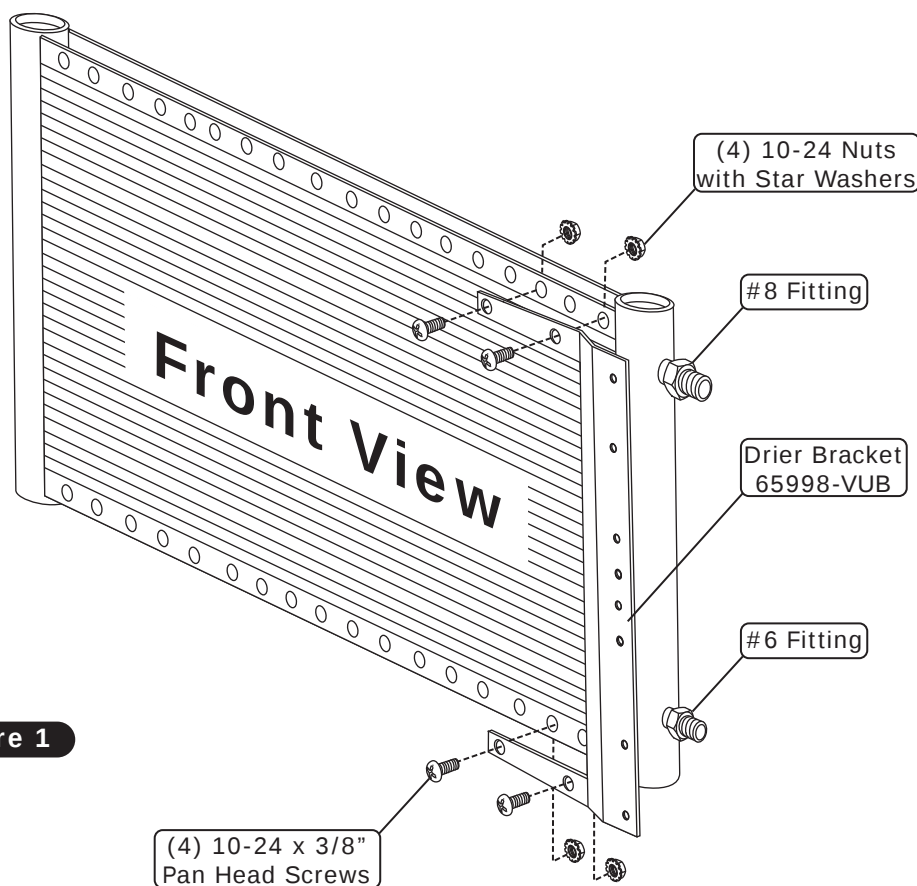


Figure 1



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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 1, below). **NOTE: Brackets mount through the 1st and 2nd holes on the condenser.**

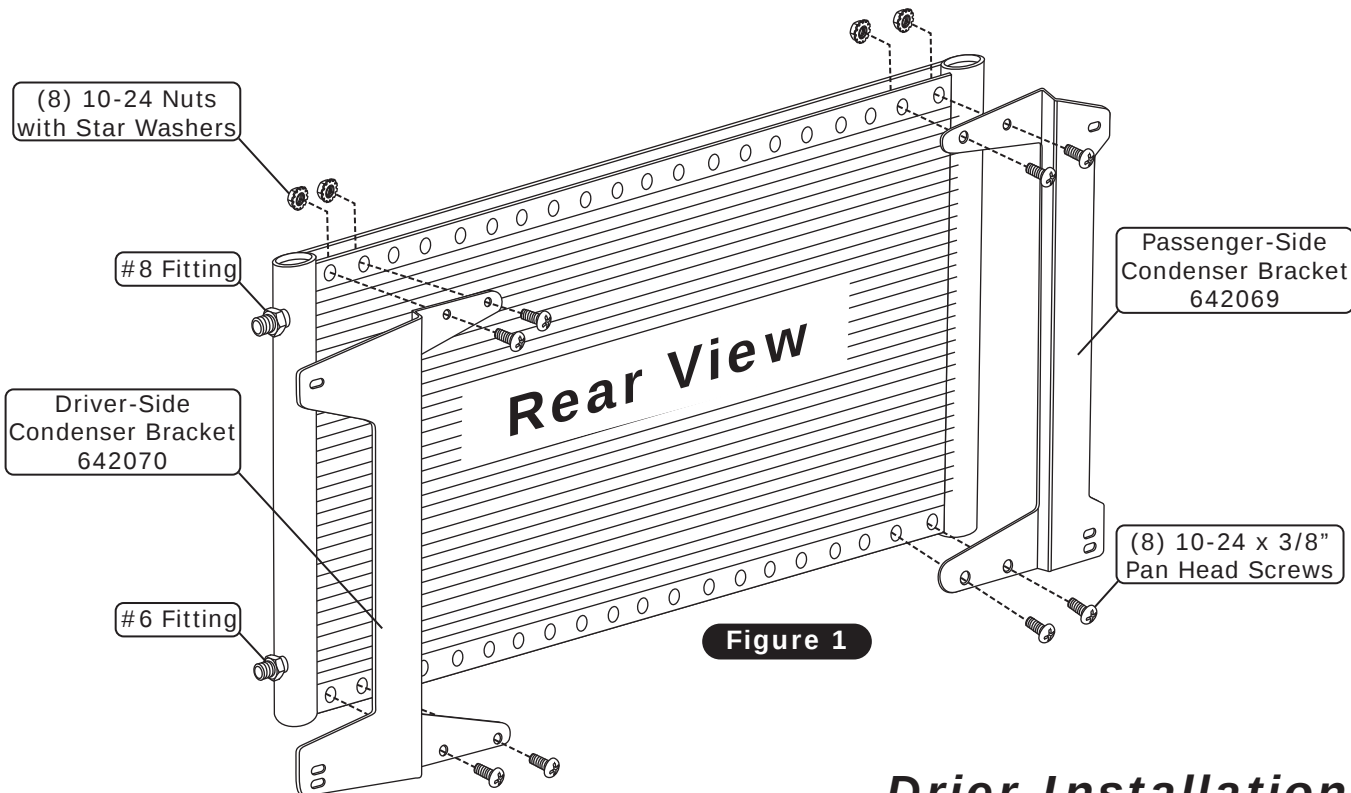


Figure 1

Drier Installation

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

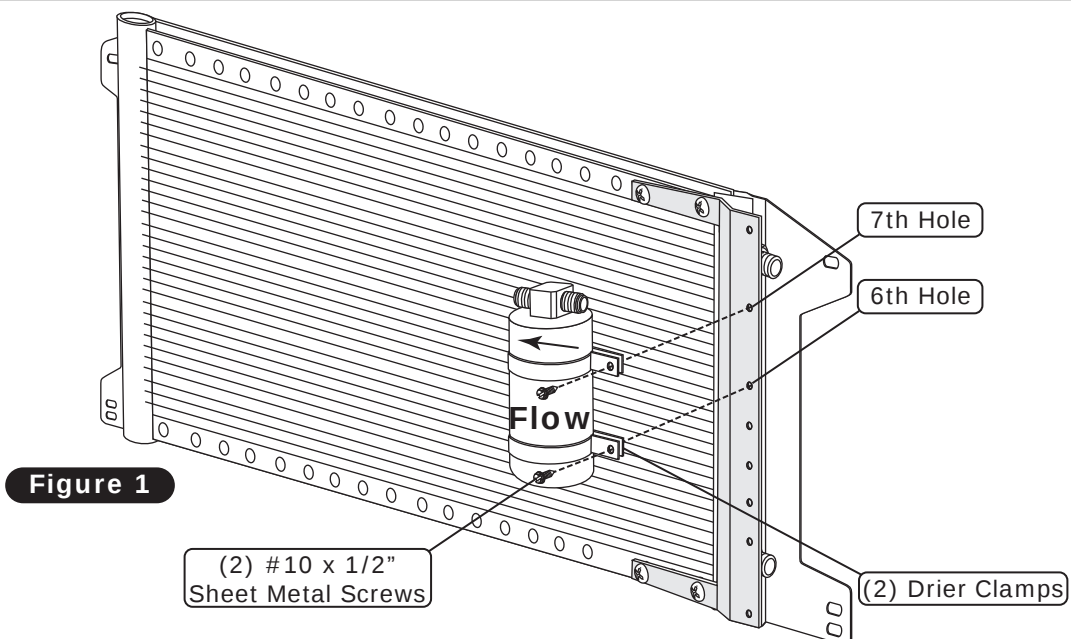
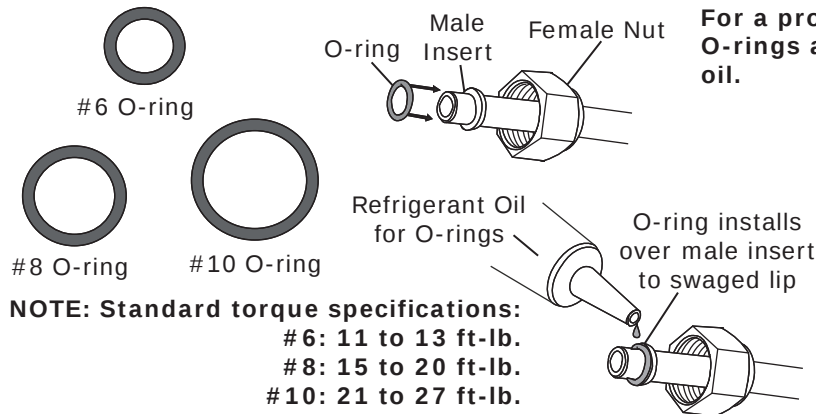


Figure 1



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Lubricating O-rings



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

#6 Drier/Condenser Hardline Installation

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

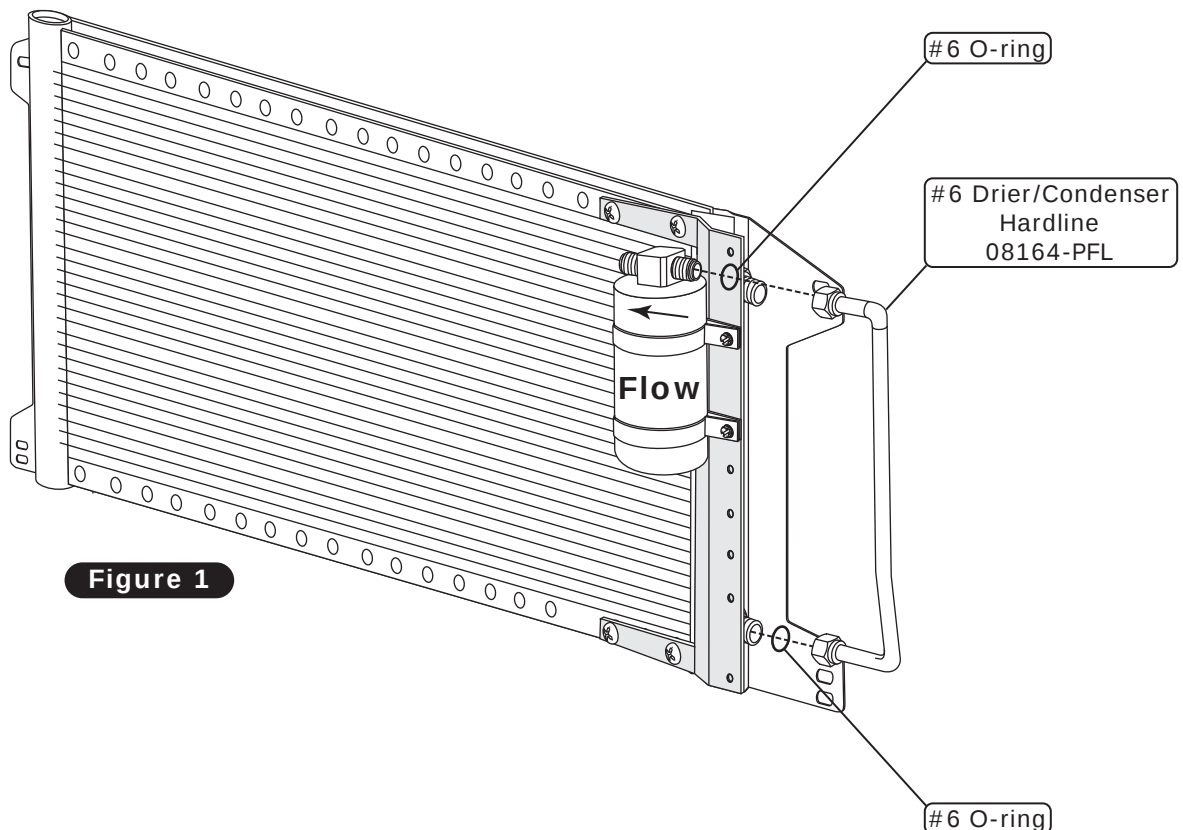


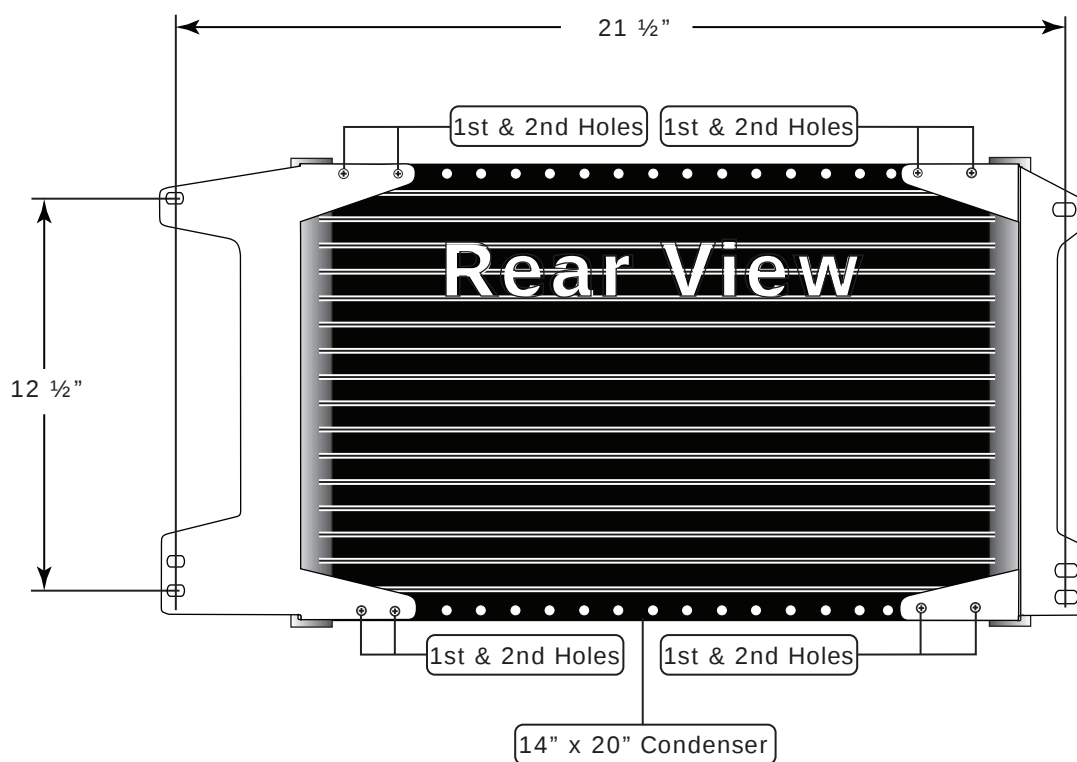
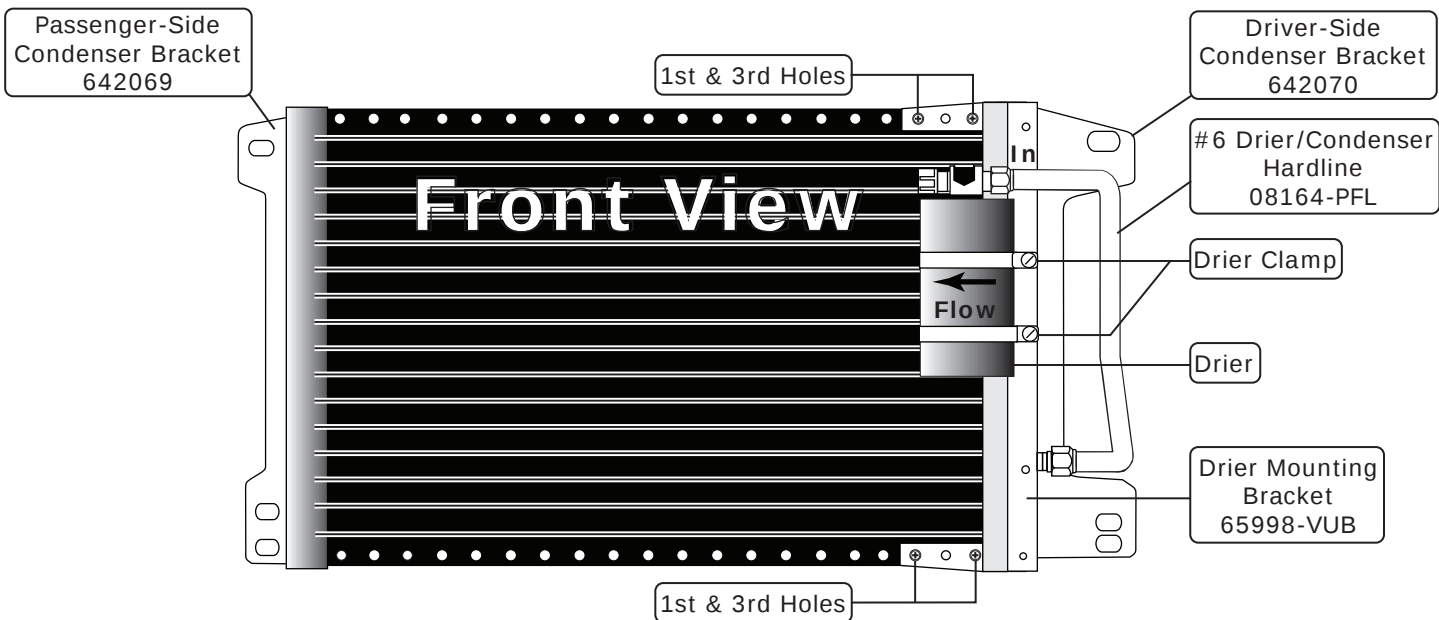
Figure 1



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Condenser Assembly

1. Compare your condenser assembly to the images below.





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Core Support Modification

With A/C:

1. Using the template provided on Page 12, drill a 1/4" hole (See Figure 1a, below).
2. Install the hardline support bracket on the back side of the core support using a 1/4-20 x 1/2" bolt, flat washer and 1/4-20 nut with star washer as shown in Figure 1b, below.
3. Install the 2-hole grommet onto the hardline support bracket as shown in Figure 1b, below.

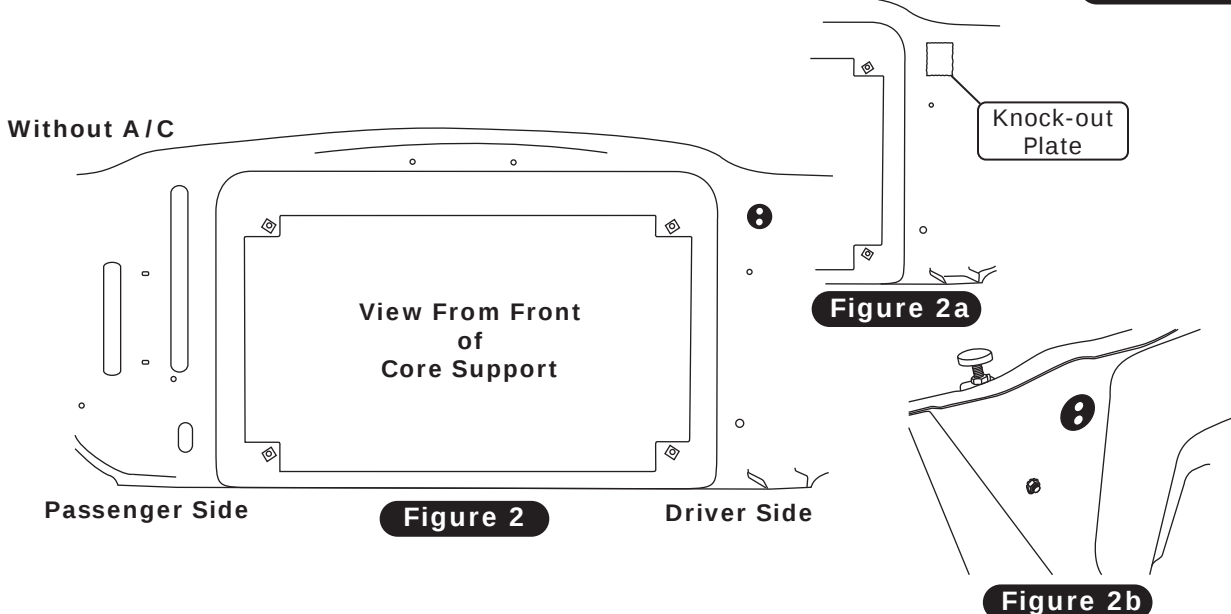
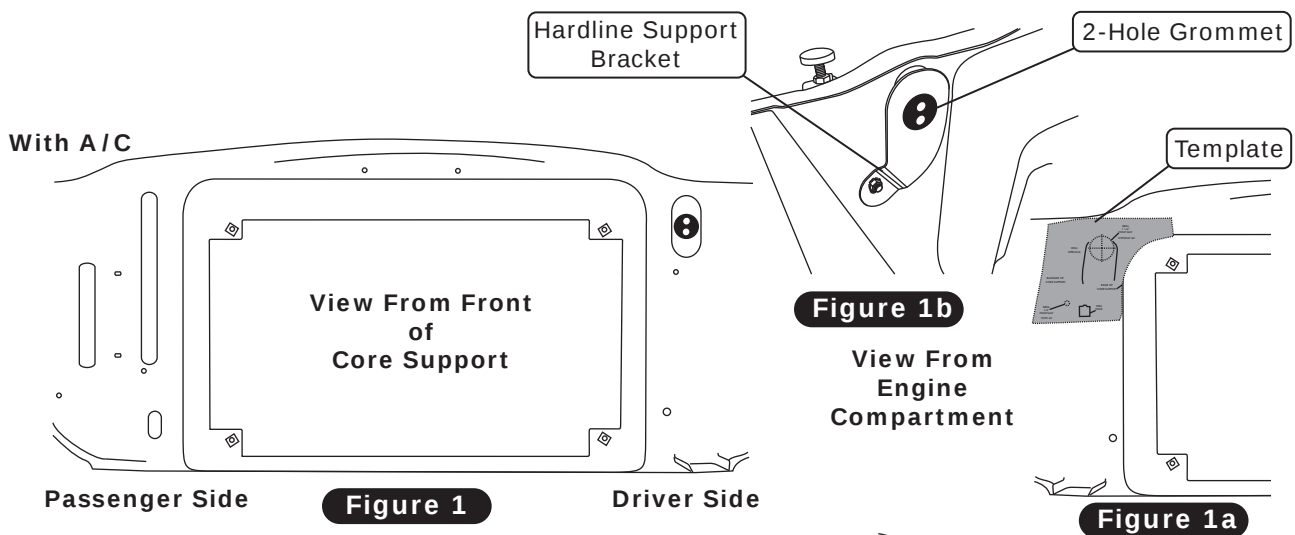
Without A/C:

Option 1:

1. Weld the knock-out plate to the core support as shown in Figure 2a, below.
2. Using the template provided on Page 12, drill a 1 1/4" hole in the core support.
3. Install the 2-hole grommet in the hole as shown in Figure 2b, below.

Option 2:

1. Knock out the plate on the core support (See Figure 2a, below).
2. Using the template provided on Page 12, drill a 1/4" hole. Install hardline support bracket on the back side of the core support using a 1/4-20 x 1/2" bolt, flat washer and 1/4-20 nut with star washer.
3. Install the 2-hole grommet onto the hardline support bracket as shown in Figure 1b, below.





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Condenser Assembly and Fan Shroud Installation

1. Install (4) 1/4-20 U-nuts on the core support as shown in Figure 1, below.
2. Install condenser assembly between the radiator and the core support as shown in Figure 1, below.
3. Secure the condenser assembly to the core support using (4) 1/4-20 x 3/4" hex bolts and (4) flat washers as shown in Figure 2, below.
4. Reinstall the fan shroud and radiator using the OEM hardware as shown in Figure 2, below.

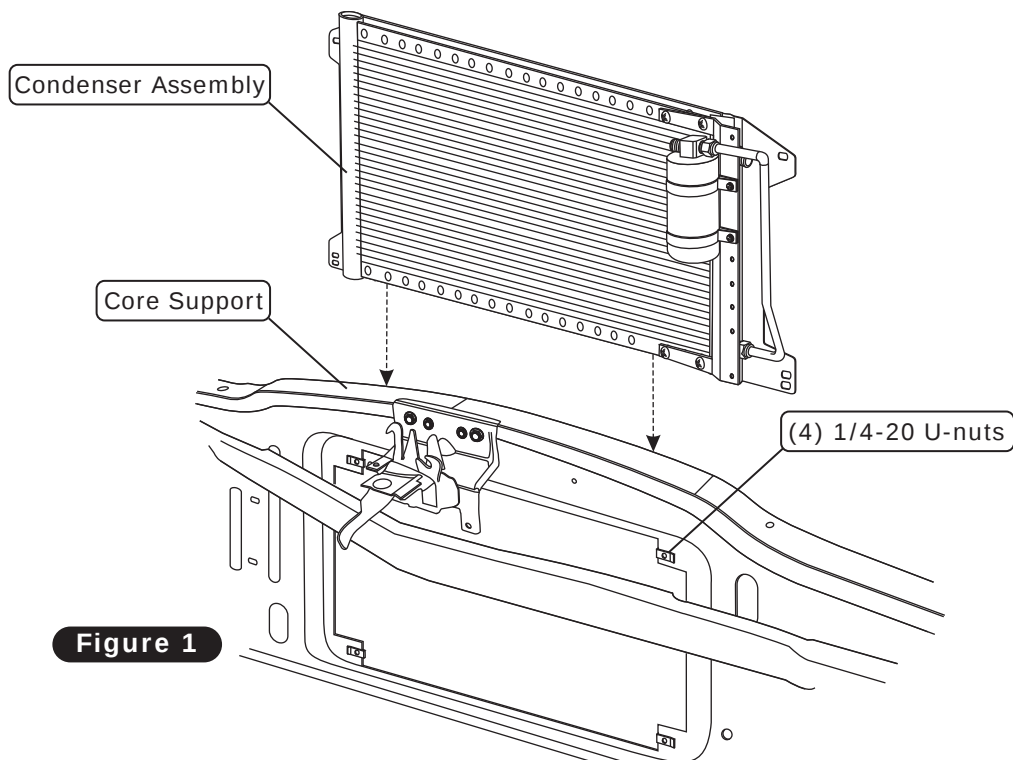


Figure 1

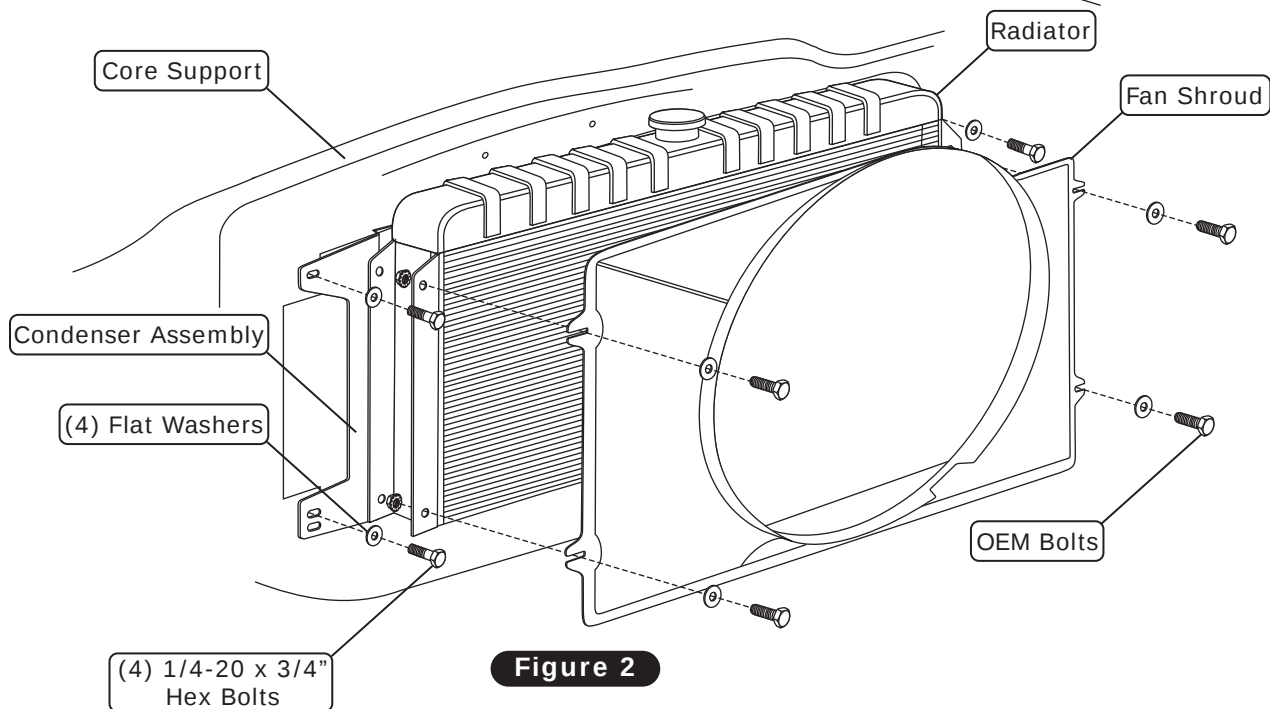


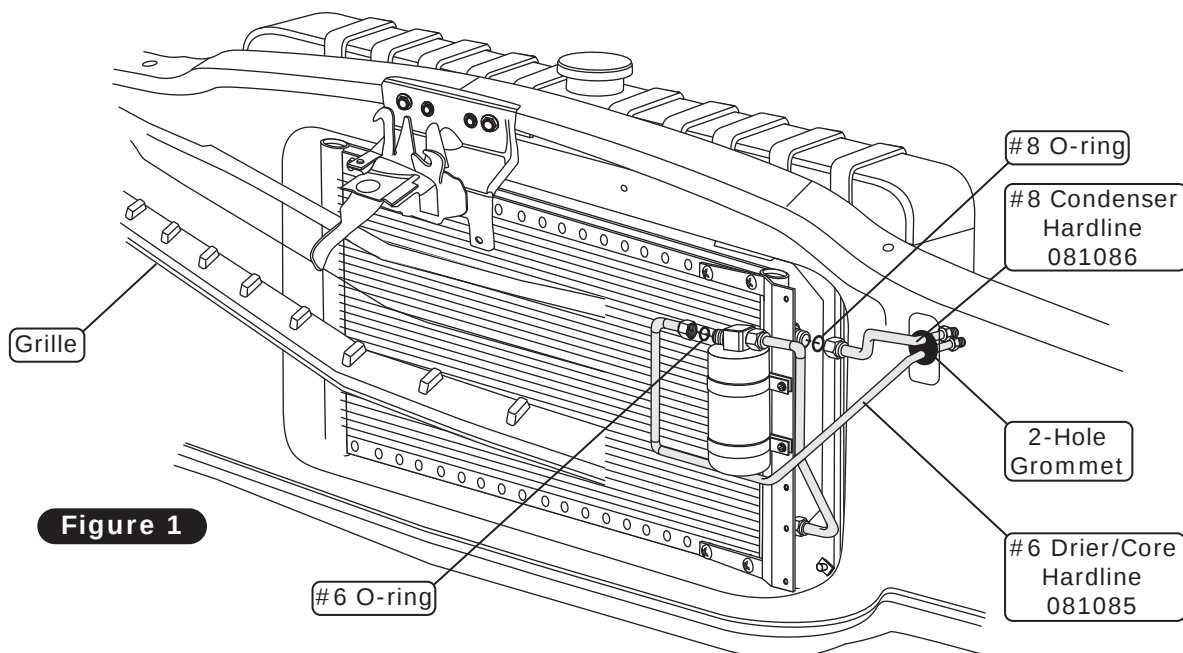
Figure 2



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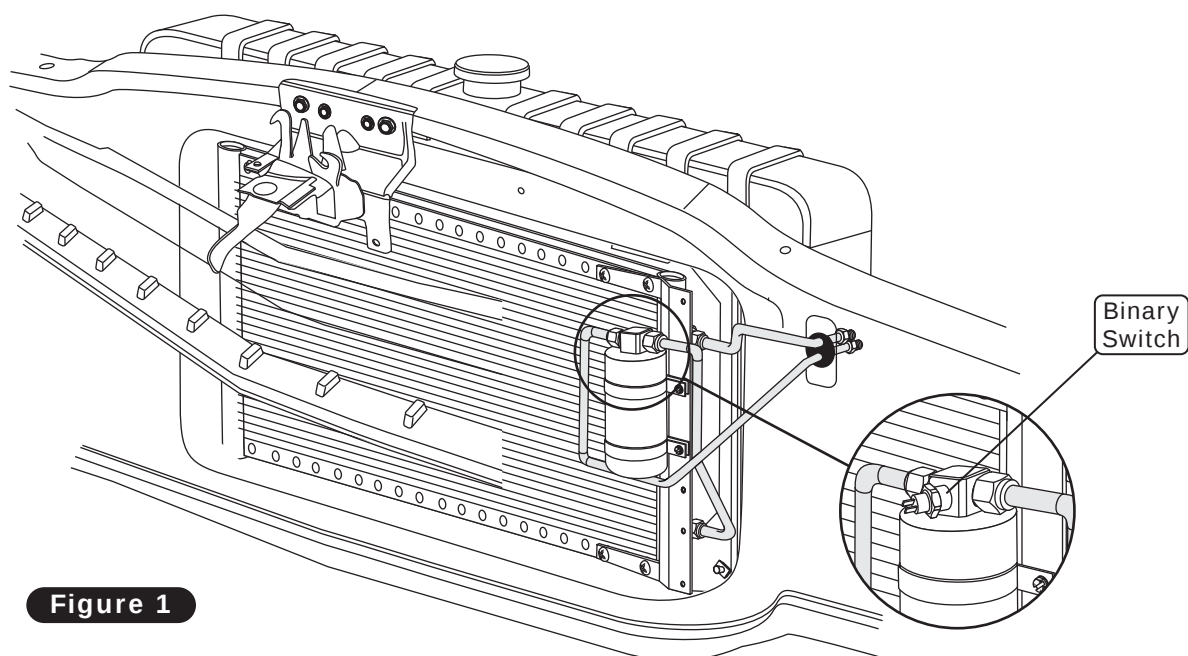
#6 and #8 Hardline Installation

1. Lubricate a #6 and #8 O-ring as shown in Lubricating O-rings, Page 7. 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 7.



Binary Switch Installation and Final Steps

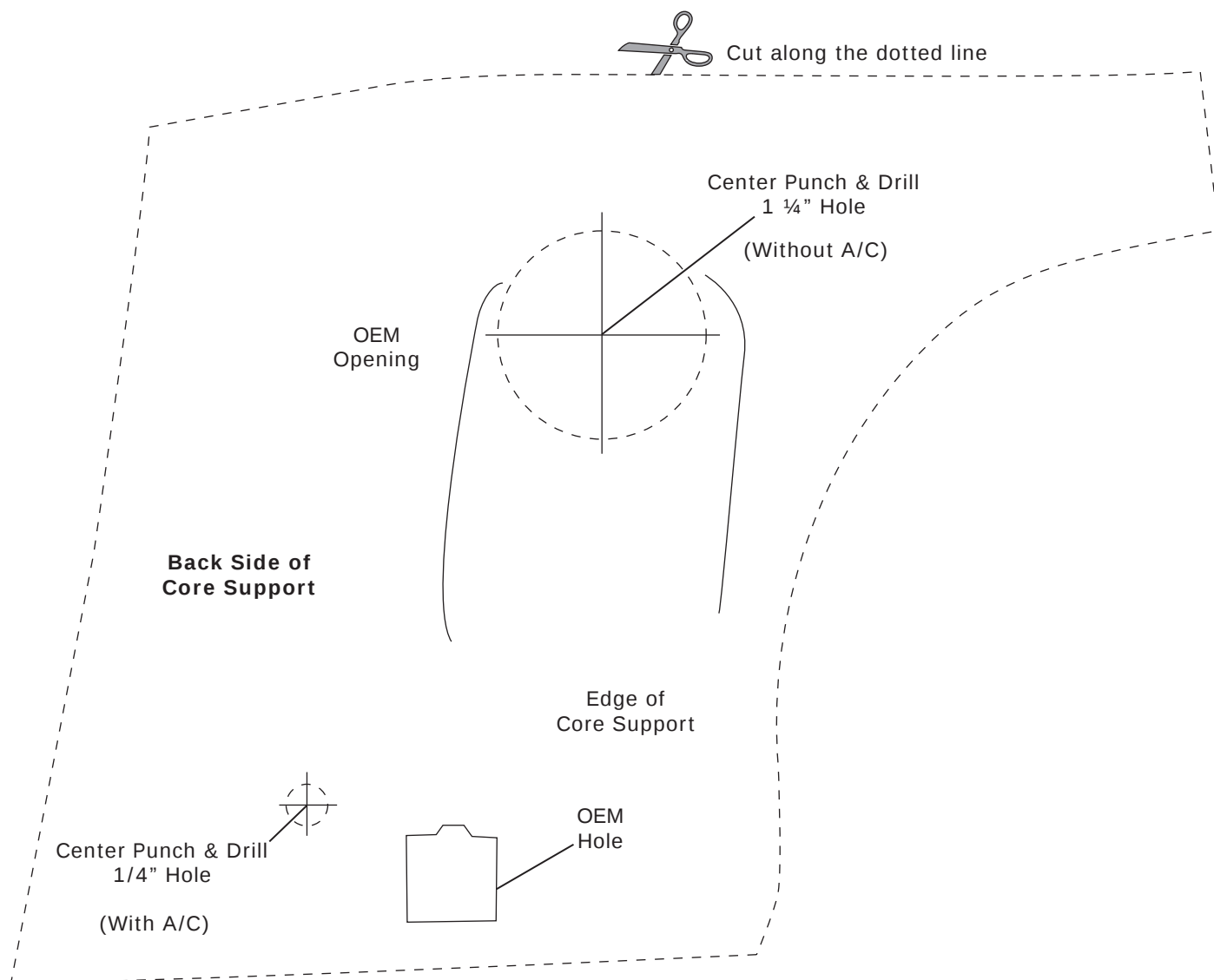
1. Install the binary switch onto the drier as shown in Figure 1, below.
2. Reinstall and/or reconnect all remaining items removed or disconnected in Steps 1-4 of the Engine Compartment Disassembly instructions on Page 5. This concludes the condenser kit portion of your installation.





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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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Packing List: Condenser Kit (011067)

O-rings / Refrigerant Oil

	Qty		Part No	Description
	1	☐	11079-VUS	Binary Switch, Male
	5	☐	18125-VUB	Washer, 1/4" USS, Flat
	1	☐	18152-VUB	Nut with Star Washer, 1/4-20
	2	☐	18247-VUB	Screw, #10 x 1/2", Sheet Metal
	12	☐	18249-VUB	Screw, 10-24 x 3/8", Pan Head
	12	☐	18260-VUB	Nut with Star Washer, 10-24
	1	☐	18287-VUB	Bolt, 1/4-20 x 1/2", Hex
	4	☐	182871	Bolt, 1/4-20 x 3/4", Hex
	4	☐	18978-VUB	U-nut, 1/4-20
	1	☐	23135-VUW	Compressor Lead
	1	☐	33134-VUI	Grommet, 2-Hole

Packed By: _____

	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	☐	642069	Bracket, Condenser, Passenger-Side
	1	☐	642070	Bracket, Condenser, Driver-Side
	1	☐	642073	Bracket, Hardline Support
	1	☐	65998-VUB	Bracket, Universal Drier

Packed By: _____

Hardlines / Hoses

	Qty		Part No	Description
	1	☐	081085	Hardline, #6, Drier/Core
	1	☐	081086	Hardline, #8, Condenser
	1	☐	08164-PFL	Hardline, #6, Drier/Condenser

Packed By: _____

Condenser / Drier

	Qty		Part No	Description
	1	☐	03765-VUC	Condenser, 14" x 20", Parallel Flow
	1	☐	07321-VUC	Drier

Packed By: _____

Inspected By: _____

Date: _____