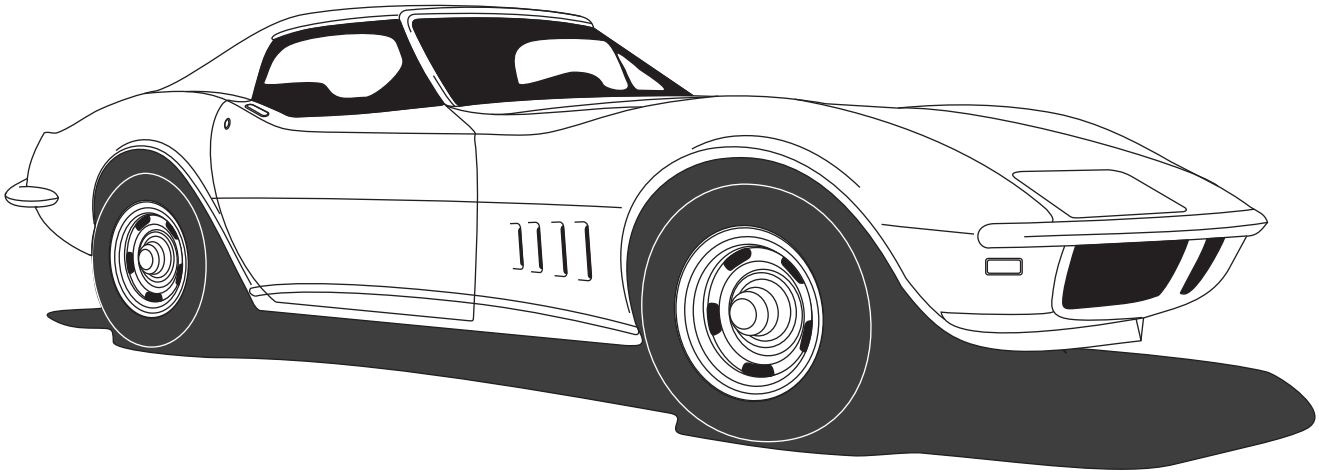
1968 Corvette

Condenser Kit *with* Drier
(021068)



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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.

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 first and third holes in the condenser.**

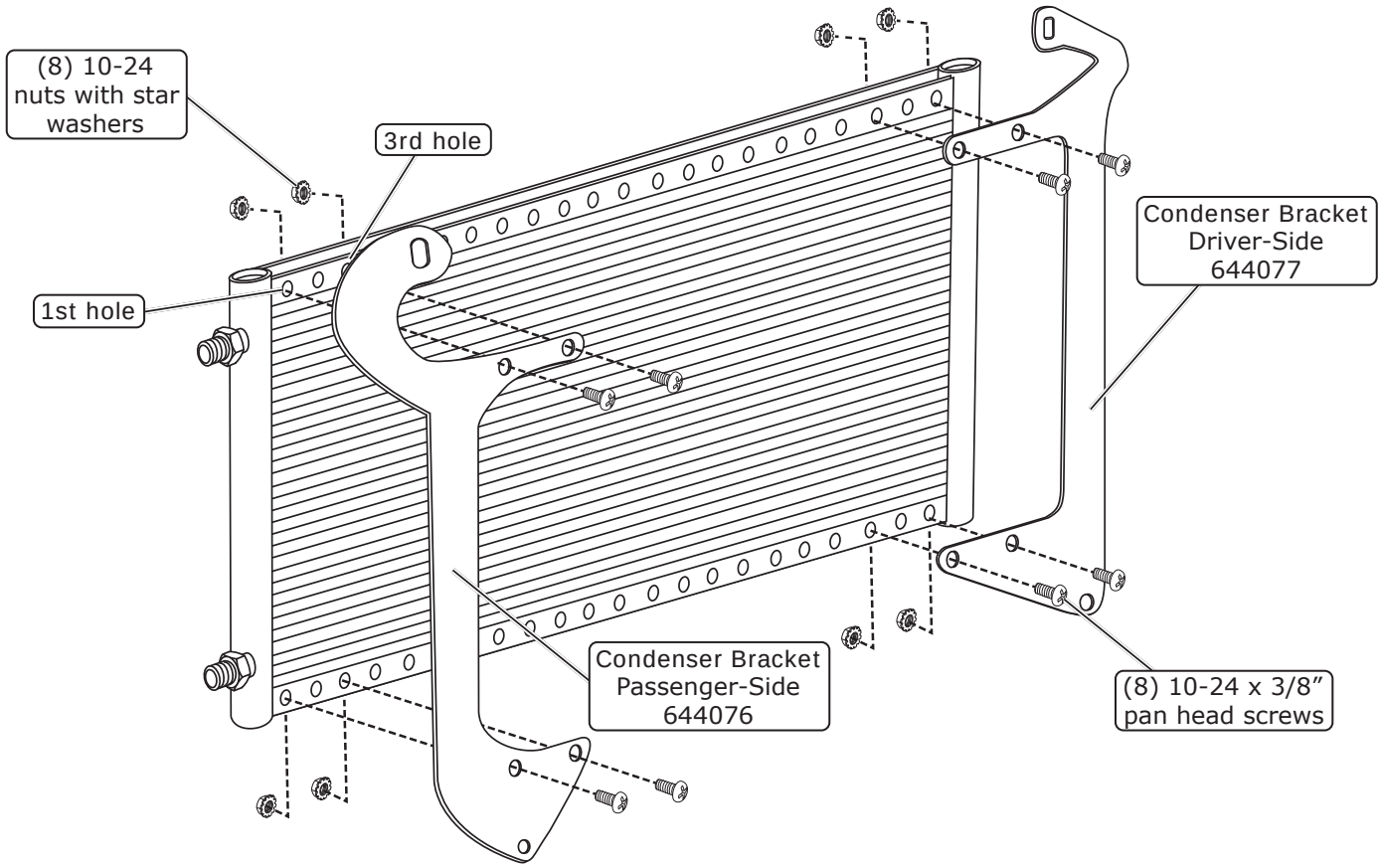

Figure 1

Condenser Installation

1. Remove the OEM condenser and lines (if equipped with factory air) (retain mounting hardware).
2. Install the condenser assembly by placing the condenser on the front side of the core support and aligning it with the OEM mounting holes as shown in Figure 1, below.

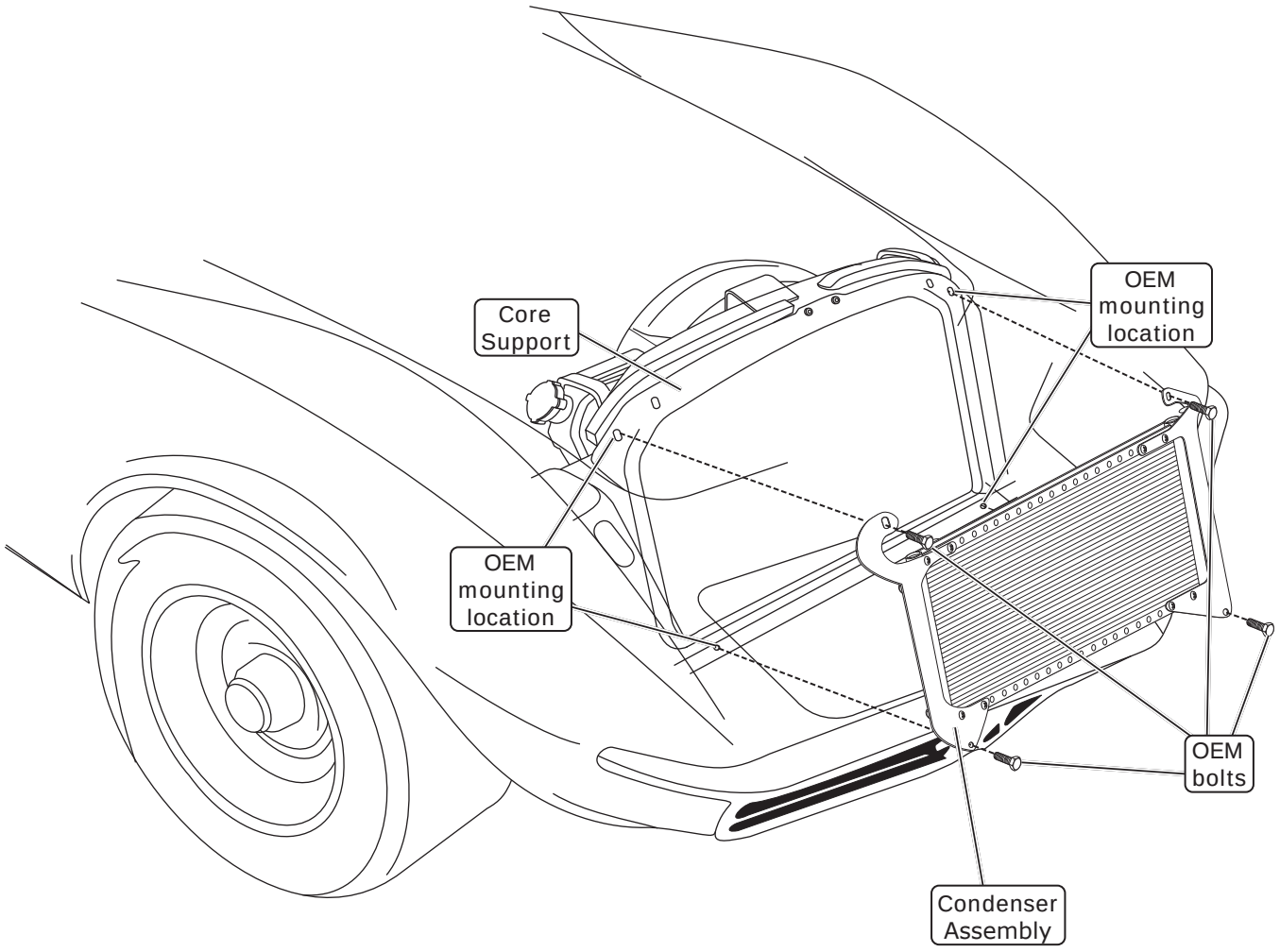

Figure 1

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Core Support Modification (Non-Air Cars Only)

1. Cut out the front core support template located on Page 11.
2. Position the template as shown in Figure 1, below. Place the top edge along the hood latch and fold the template over, aligning the edge of the template with the edge of the core support as shown in Figure 1, below.
3. Once the template is in place and secure, use a center-punch to mark the center of the (2) circles on the template.
4. Remove the template and use a 1/8" drill bit to drill a pilot hole through the core support.
5. From under the fenderwell, use a 1 ¼" hole saw to cut out the (2) holes as shown in Figure 2, below.
6. Once the holes are made, use a straight edge to mark a straight line from the edge of one hole to the other as shown in Figure 2, below.
7. Cut along the edges and remove the center portion between the (2) holes (See Figure 2, below).

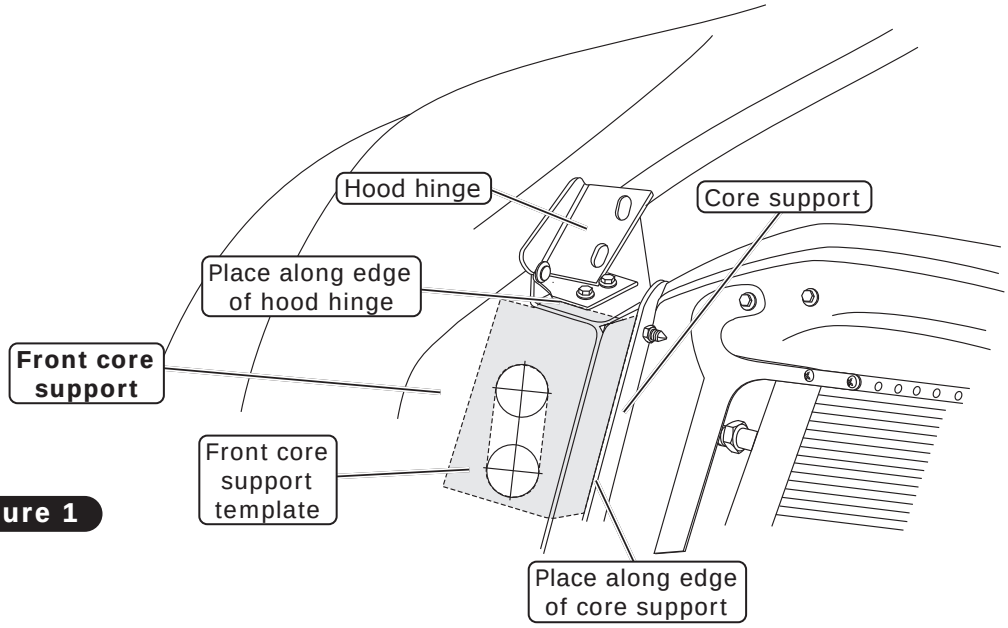


Figure 1

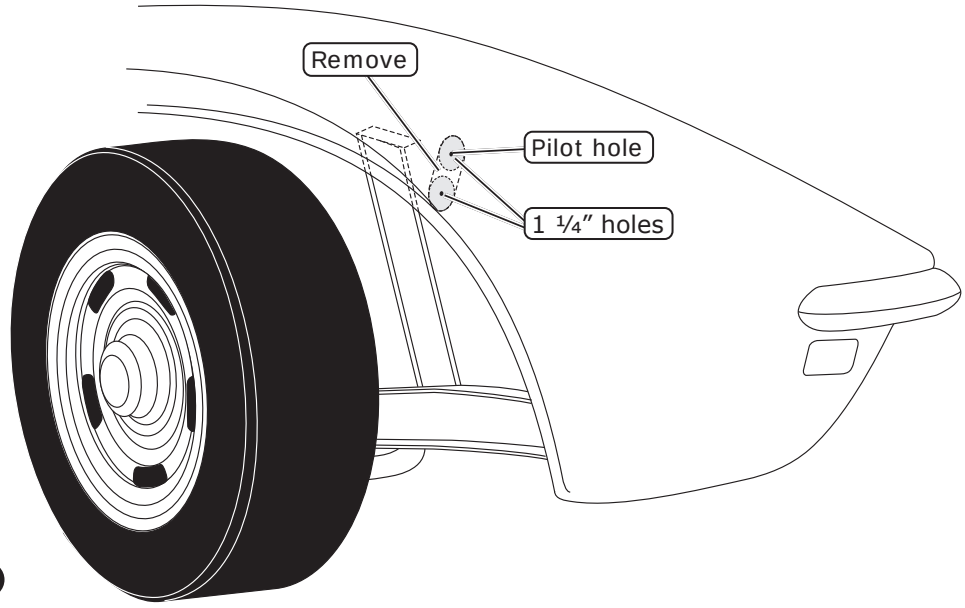


Figure 2

Core Support Modification (Non-Air Cars Only) (Cont.)

8. Cut out the rear core support template located on Page 11.
9. Position the template as shown in Figure 3, below. Place the top edge along the top edge of the inner fenderwell and fold the template around the inner fenderwell, aligning the edge of the template with the edge of the core support.
10. Once the template is in place and secure, use a center-punch to mark the center of the (2) circles on the template.
11. Remove the template and use a 1/8" drill bit to drill a pilot hole through the fenderwell.
12. From under the fenderwell, use a 1 ¼" hole saw to cut out the (2) holes as shown in Figure 4, below.
13. Once the holes are made, use a straight edge to mark a straight line from the edge of one hole to the other as shown in Figure 4, below.
14. Cut along the edges and remove the center portion between the (2) holes (See Figure 4, below).

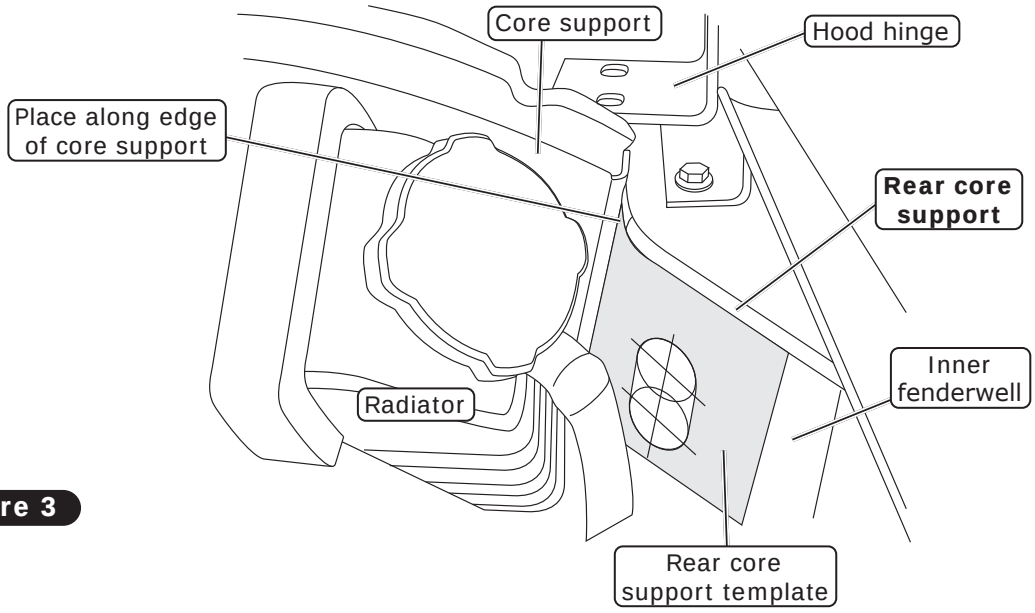


Figure 3

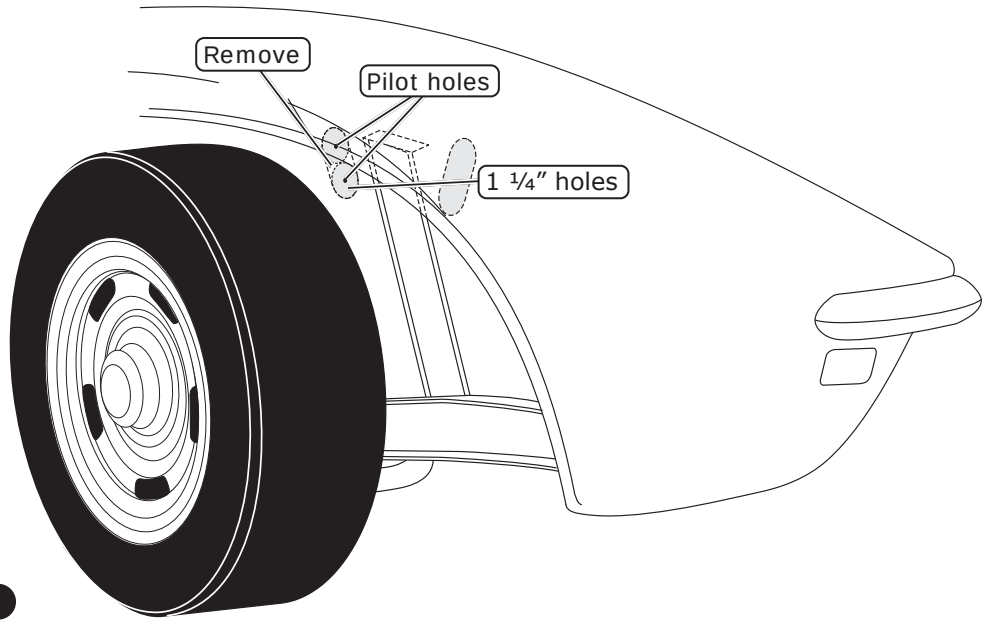
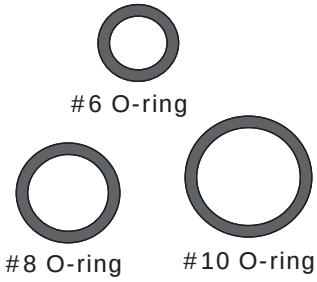
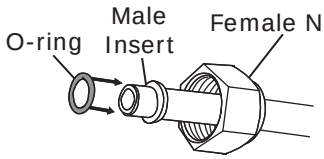


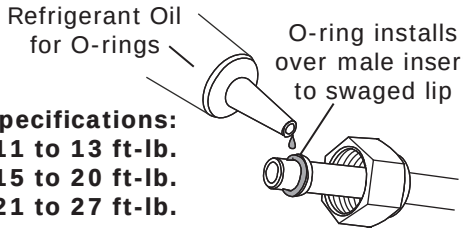
Figure 4

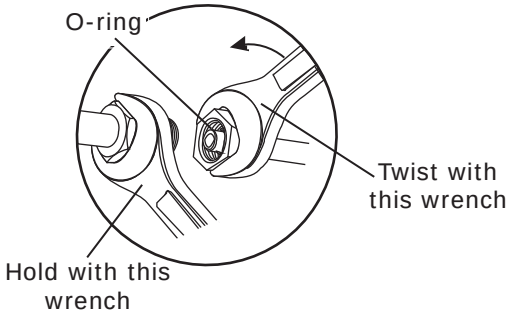
Lubricating O-rings





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





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

Hardline and Drier Installation

1. Install the caterpillar grommet around the front and rear holes in the inner fenderwell as shown in Figure 1 and 2, below.
2. Lubricate a #6 O-ring (See Lubricating O-rings, above) and install the #6 condenser/drier hardline as shown in Figure 1, below. **NOTE: Only hand tighten the #6 hardline.**

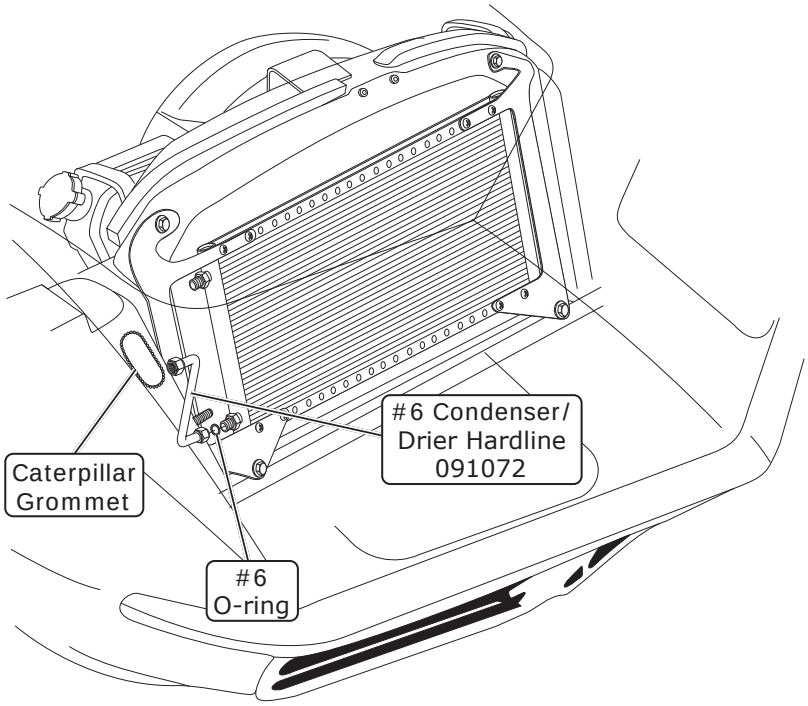


Figure 1

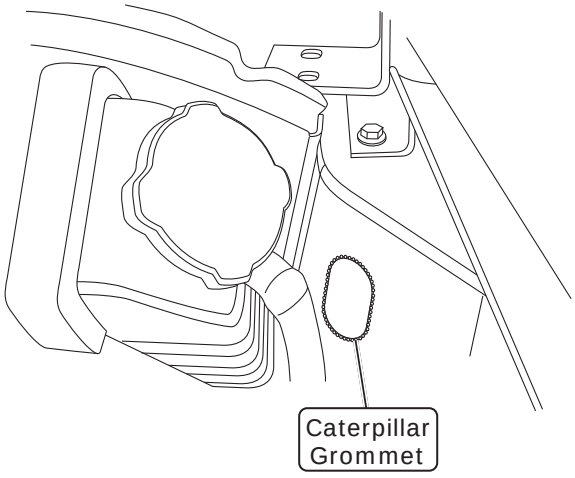


Figure 2

Hardline and Drier Installation (Cont.)

3. Remove the front fenderwell mounting bolt that goes through the core support as shown in Figure 3, below. Replace the bolt using a 5/16-18 x 1 ¼" hex bolt with washer.
4. Install the drier with mounting bracket on the fenderwell bolt, and secure it using a 5/16-18 nut (See Figure 3, below). **NOTE: Only hand tighten the drier mounting bracket nut.**
5. Lubricate a #6 O-ring (See Lubricating O-rings, Page 8) and connect the #6 condenser/drier hardline to the drier as shown in Figure 4, below. **NOTE: Only hand tighten the #6 hardline.**
6. Install the binary switch on the drier as shown in Figure 4, below.

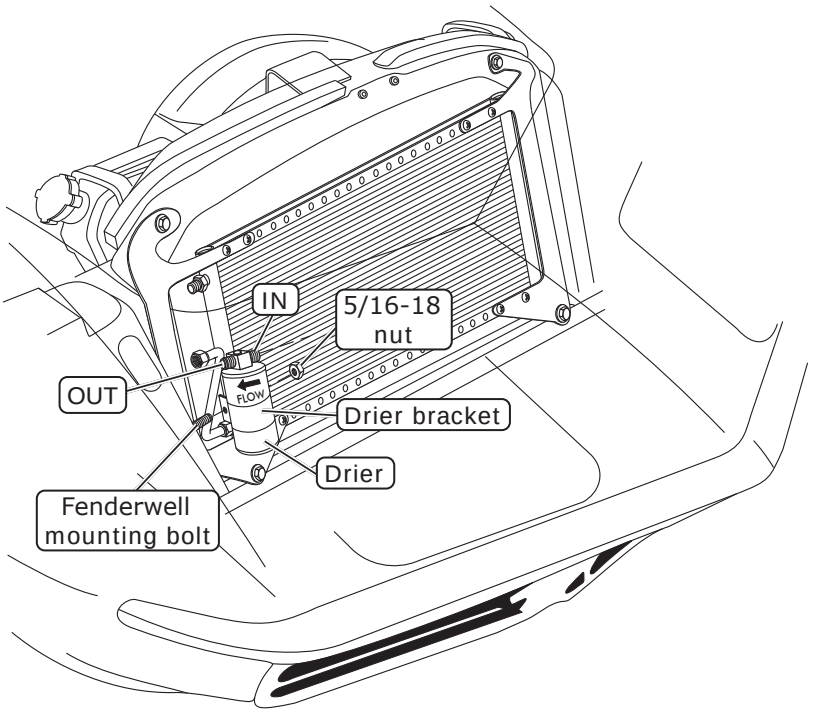


Figure 3

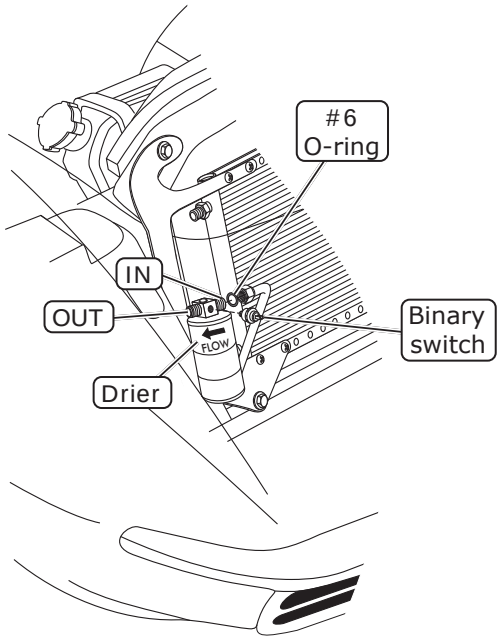


Figure 4

Hardline and Drier Installation (Final)

7. Lubricate a #8 O-ring (See Lubricating O-rings, Page 8) and connect the #8 condenser/compressor hardline onto the condenser as shown in Figure 5, below.
8. Lubricate a #6 O-ring (See Lubricating O-rings, Page 8) and connect the #6 drier/evaporator hardline onto the drier as shown in Figure 5, below.
9. Once all hardlines are properly attached, tighten the drier mounting bracket nut and all the hardline connections.

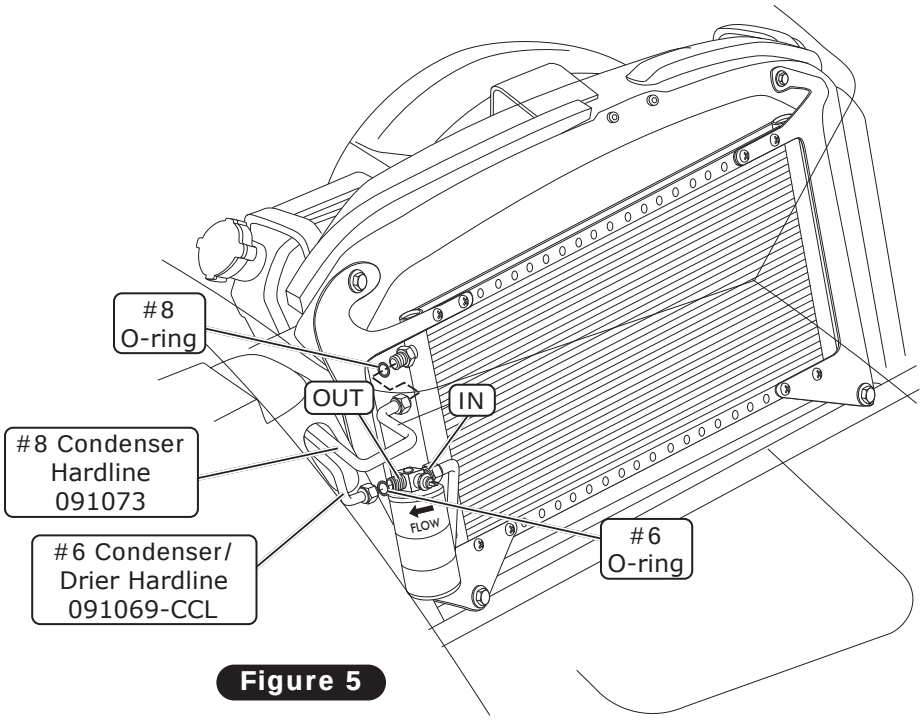


Figure 5

Hardline Cover Installation (Non-Air Cars Only)

1. Once the hardlines are installed, install the hardline cover using (4) #10 x 1/2" sheet metal screws as shown in Figure 1, below.

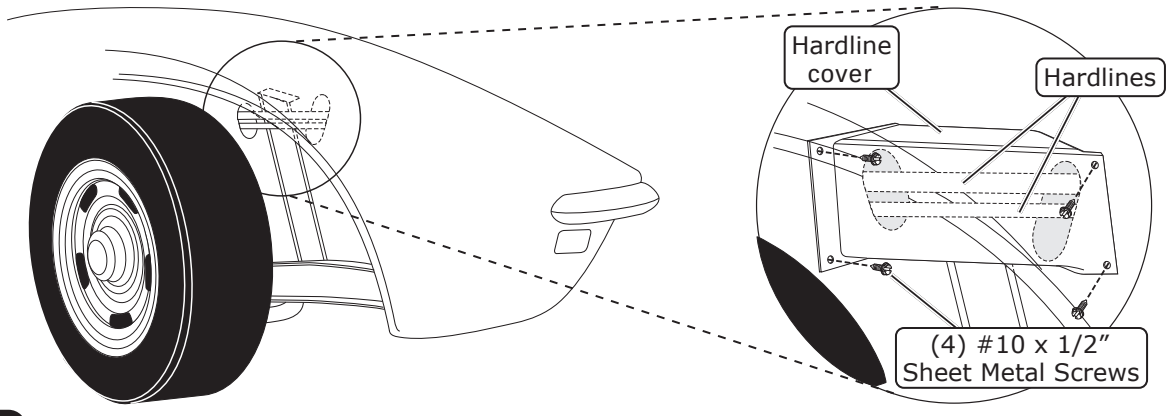
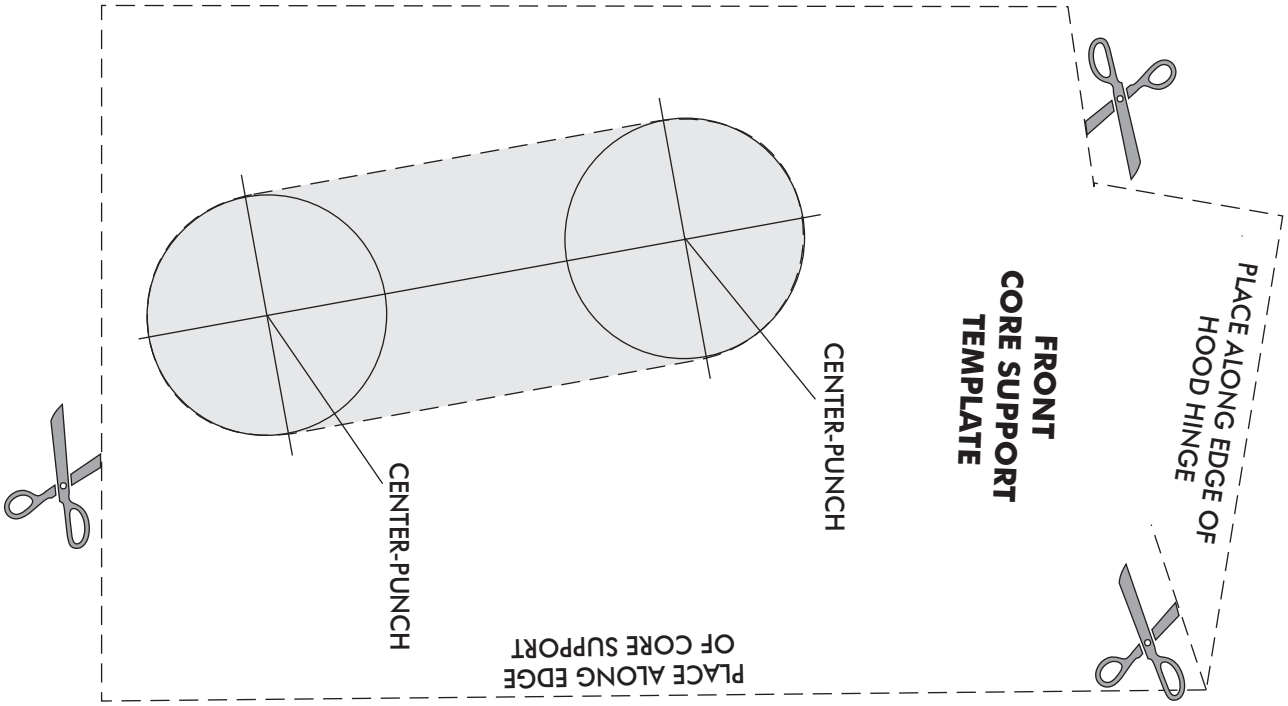
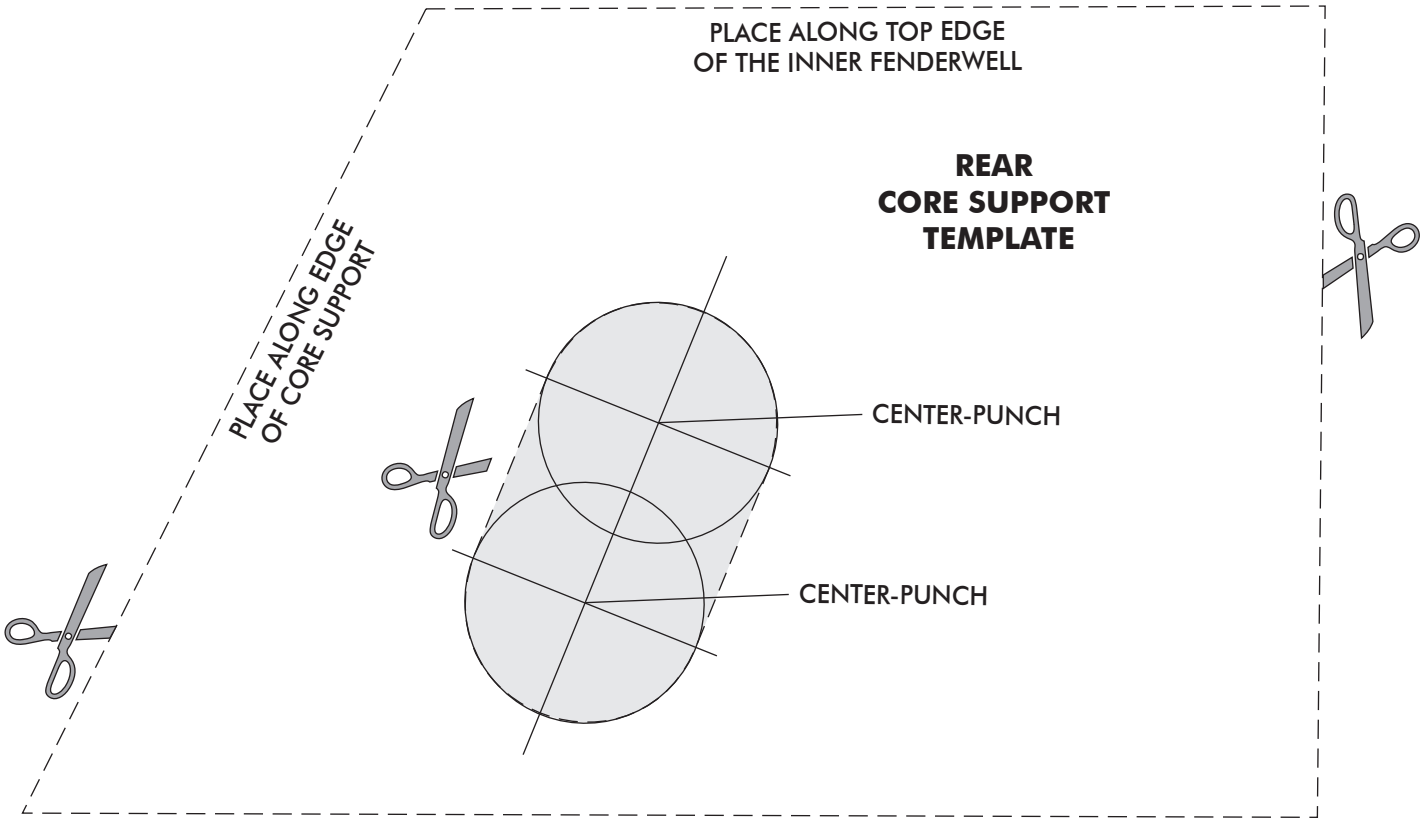


Figure 1

Core Support Template





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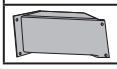
Packing List: Condenser Kit (021068)

	Qty		Part No	Description
	1	☐	11079-VUS	Binary Switch, Male
	1	☐	18151-VUB	Locknut, 5/16-18
	4	☐	18247-VUB	Screw, #10 x 1/2", Sheet Metal
	8	☐	18249-VUB	Screw, 10-24 x 3/8", Pan Head
	8	☐	18260-VUB	Nut with Star Washer, 10-24
	1	☐	183009-DSR	Bolt, 5/16-18 x 1¼", Hex
	1	☐	23135-VUW	Compressor Lead
	2	☐	33143-VUI	Caterpillar Grommet
	1	☐	620069-CCE	Hardline Cover

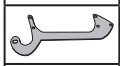
Packed By: _____

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

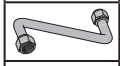
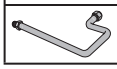
Packed By: _____

Brackets

	Qty		Part No	Description
	1	☐	65980-VCB	Bracket, Drier
	1	☐	644076	Bracket, Condenser, Passenger-Side
	1	☐	644077	Bracket, Condenser, Driver-Side

Packed By: _____

Hardlines

	Qty		Part No	Description
	1	☐	091069-CCL	Hardline, #6, Drier/Core
	1	☐	091072	Hardline, #6, Drier/Condenser
	1	☐	091073	Hardline, #8, Condenser

Packed By: _____

Condenser/Drier

	Qty		Part No	Description
	1	☐	03767-VUC	Condenser, 14" x 24" 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.