



1970-78 Datsun Z

**Condenser Kit
(039025)**



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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.



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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Bracket Assembly

NOTE: This kit is intended to be installed without the OEM overflow reservoir that is equipped on later model vehicles.

1. Locate the condenser, mounting brackets, and hardware.
2. Determine the bracket/condenser orientation and assemble as shown in Figures 1-5, below.

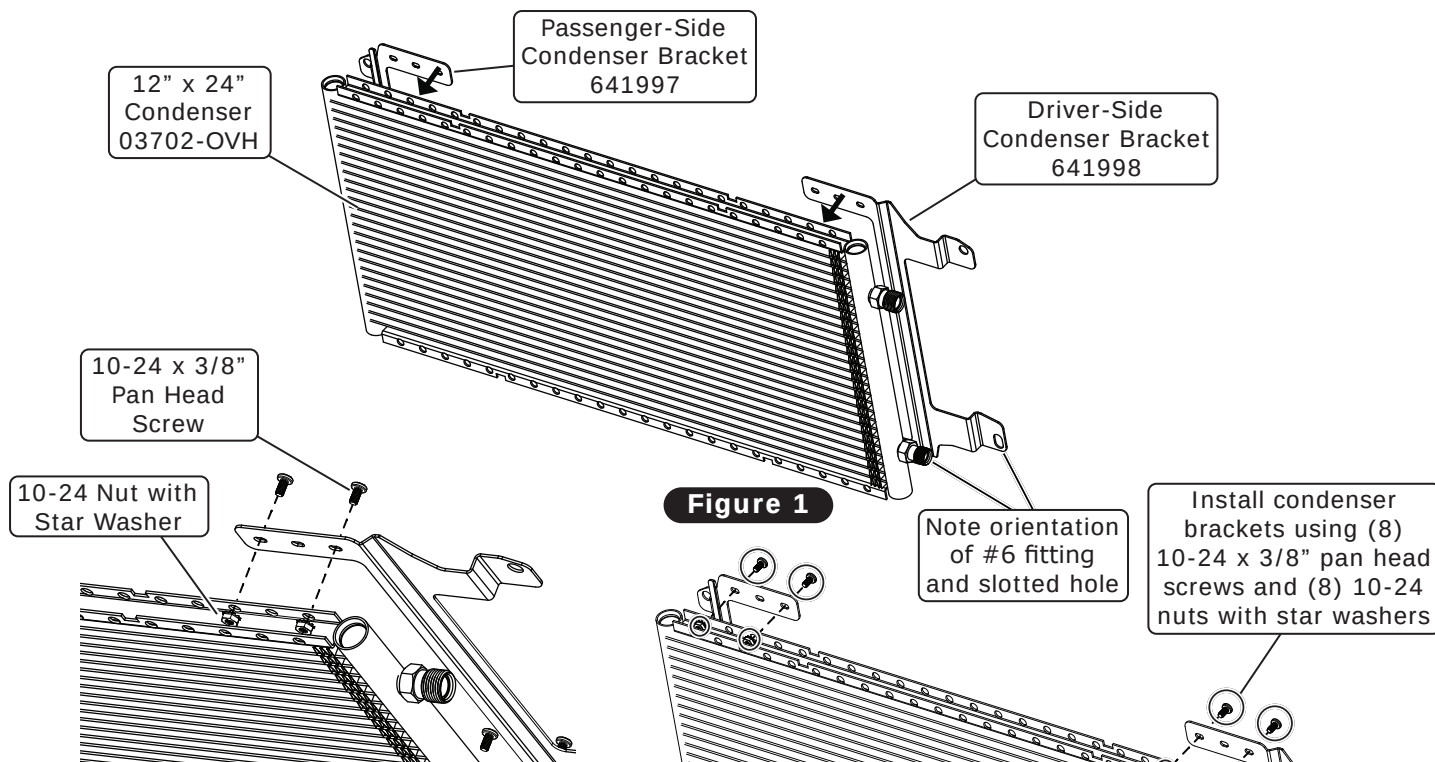


Figure 1

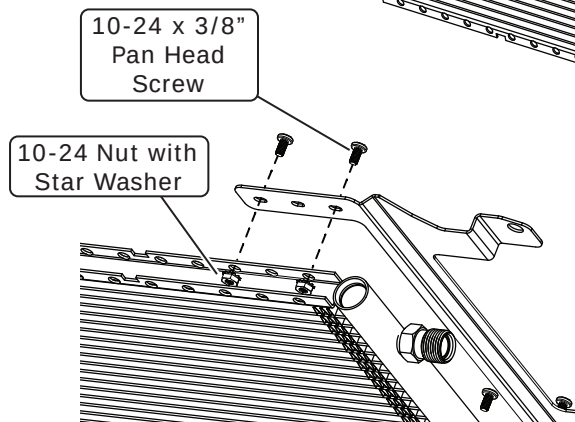


Figure 2

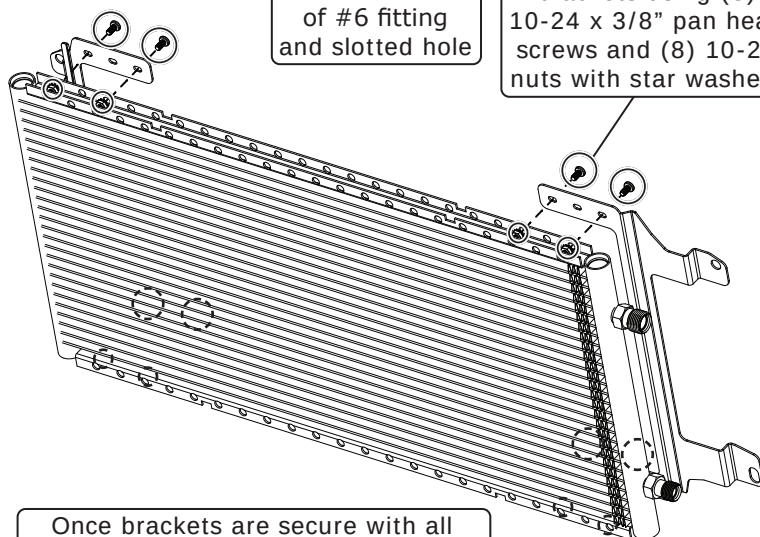


Figure 3

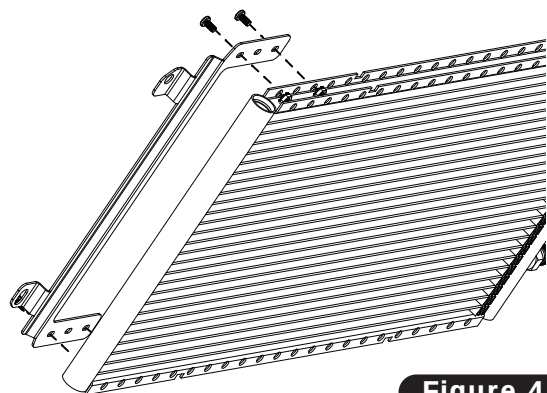


Figure 4

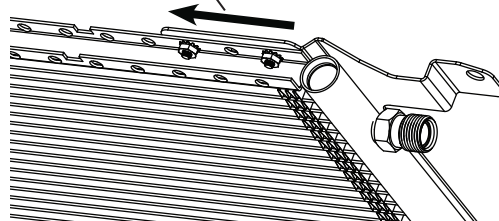


Figure 5



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Bracket Assembly (Cont.)

3. Locate the drier bracket and install it onto the condenser as shown in Figures 6-8, below.

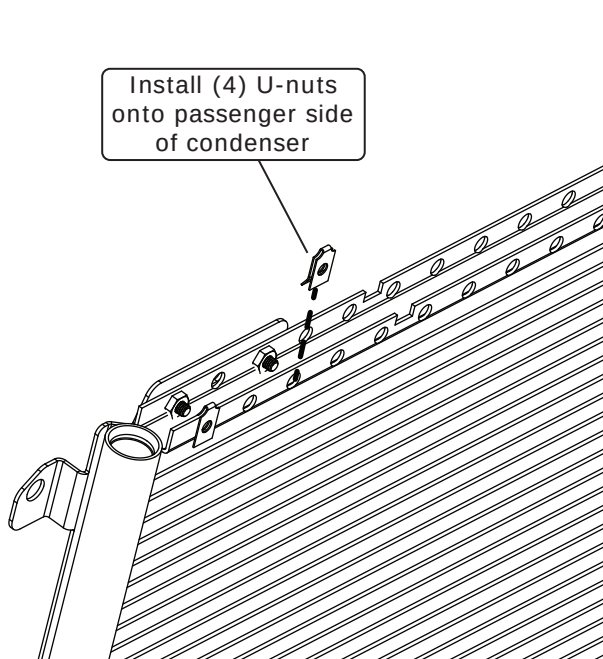


Figure 6

Install (4) U-nuts onto passenger side of condenser

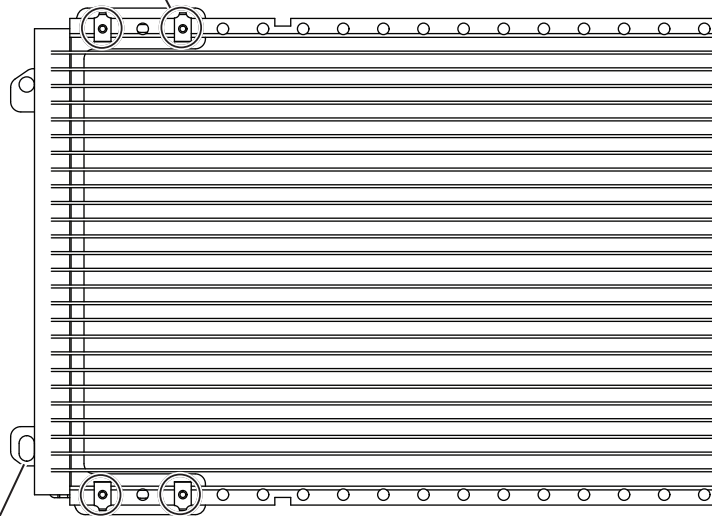


Figure 7

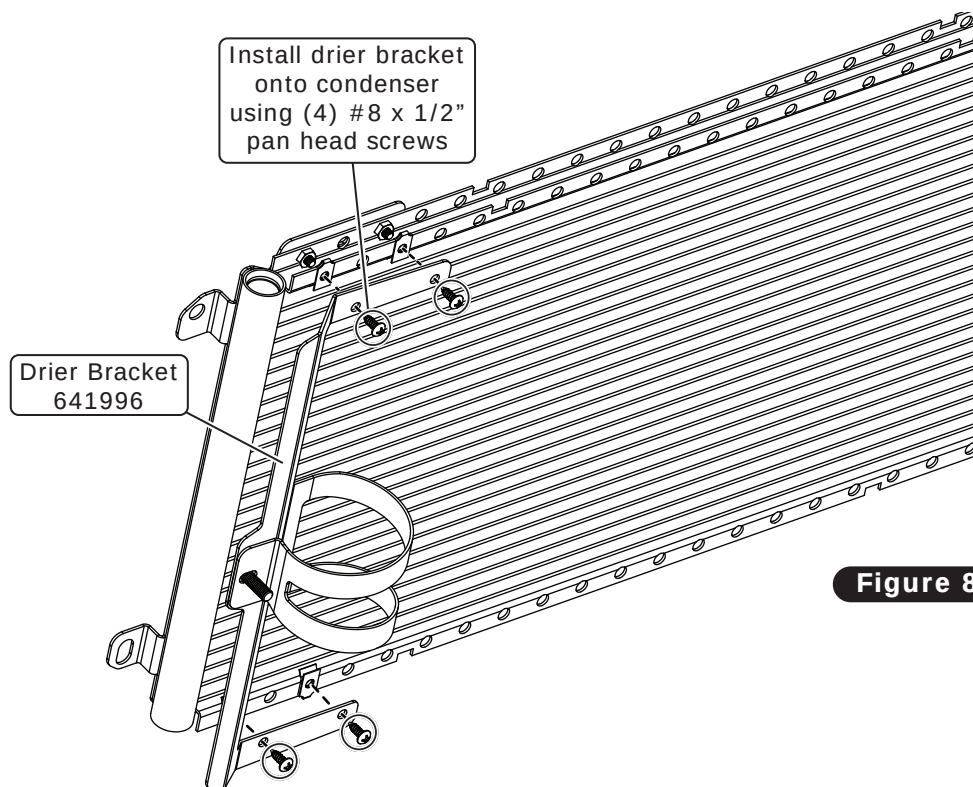
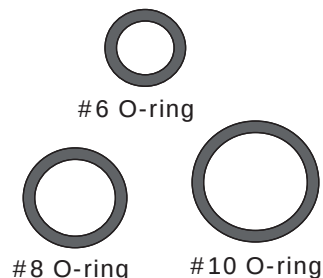


Figure 8



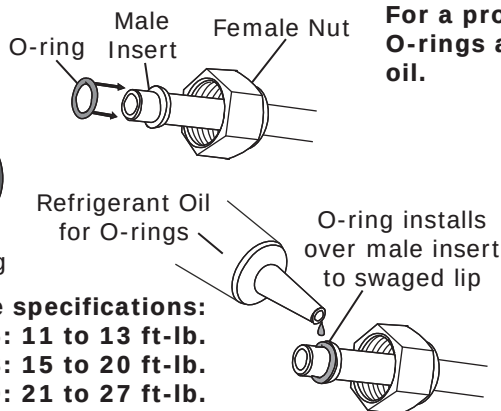
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Lubricating O-rings

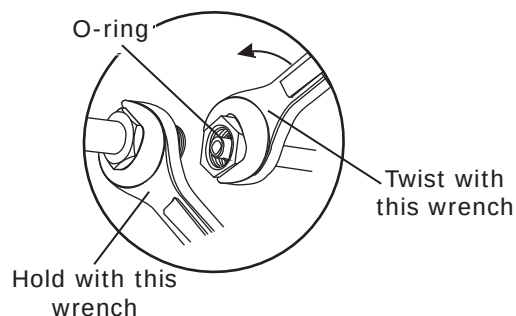


NOTE: Standard torque specifications:

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



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



Condenser Installation

NOTE: Core support stampings and holes may differ between years and models, but all necessary mounting points should remain the same.

1. Using the (4) OEM radiator/condenser (if applicable) mounting bolts, install the condenser and bracket assembly to the front side of the core support as shown in Photos 1 and 2, below. Leave loose.
NOTE: Condenser is intended to be installed using factory radiator mounting hardware, if you are not using the factory radiator and or hardware, you must supply your own hardware. If equipped with OEM horns mounted in front of the core support, temporarily removing them may ease installation.
2. Install 1 1/4" with 3/8" hole grommet onto the #6 A/C line as shown in Photo 3, below.

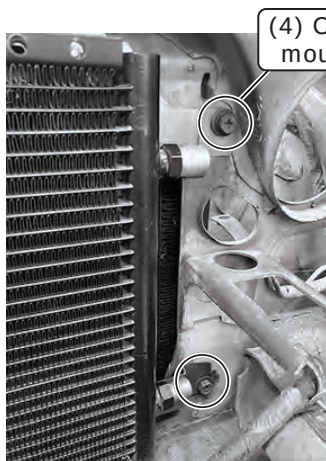


Photo 1

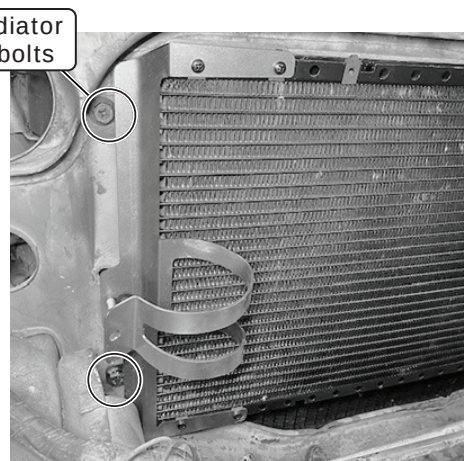


Photo 2



Photo 3



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Condenser Installation (Cont.)

3. Insert the hose through the air cleaner bracket, and with a properly lubricated O-ring (See Lubricating O-rings, Page 6), connect it to the condenser as shown in Photo 4, below. **NOTE: Only 280z models will have the air cleaner bracket. Carbureted models will be configured as shown in Photo 5, below.**
4. With a properly lubricated O-ring (See Lubricating O-rings, Page 6), install a #8 hardline onto the top fitting of the condenser as shown in Photo 6, below. Condenser mounting bolts should still be loose enough to slightly pull the condenser away from the core support to allow clearance for installation of the hardline (See Photo 7, below).

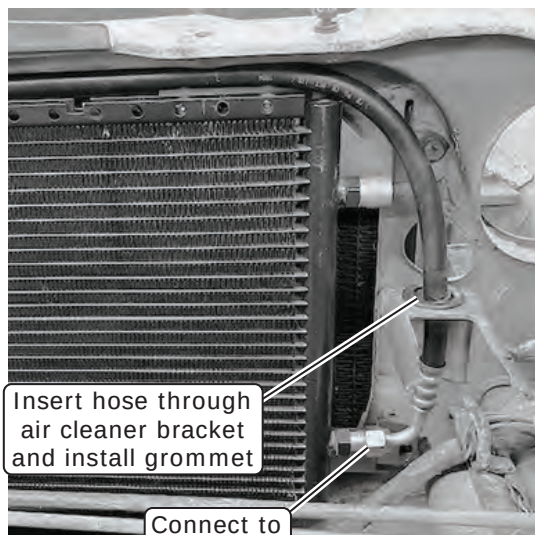


Photo 4



Carbureted Models

Photo 5

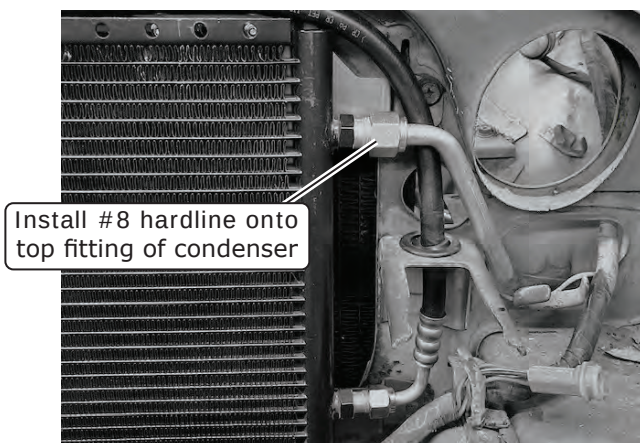


Photo 6

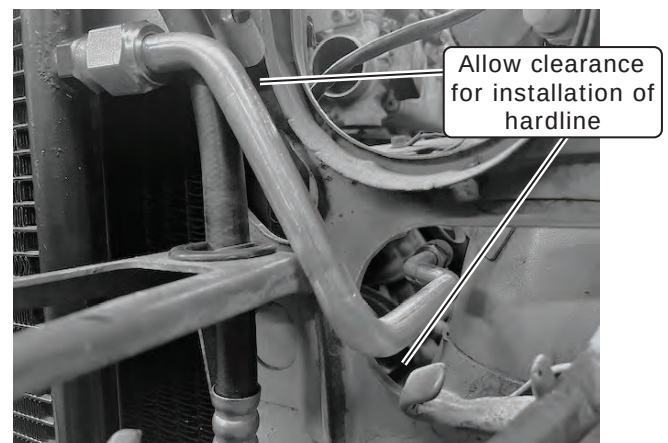


Photo 7

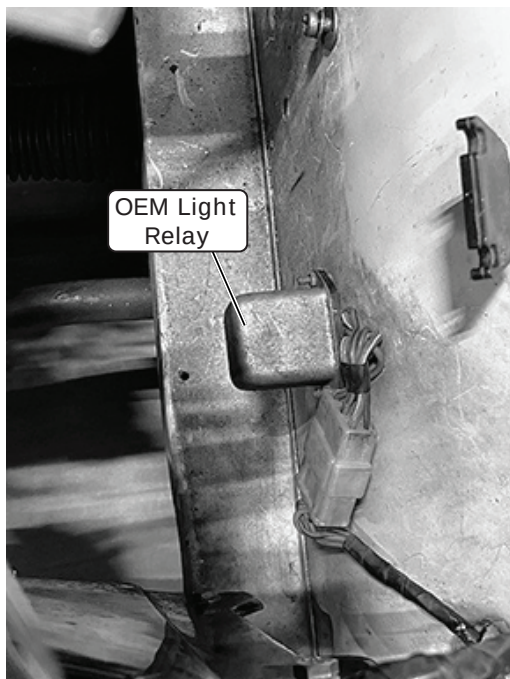


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Condenser Installation (Cont.)

NOTE: Be sure the hardline is not pressed against or making contact with any other surfaces. If equipped with an OEM light relay on the driver-side inner fender, you may need to flip the relay to match the orientation as shown in Photos 8 and 9, below, to allow clearance for the hardline.

5. Install (2) U-nuts onto the top of the condenser (See Photo 10, below), then secure the #6 A/C line to the U-nuts using (2) supplied Adel clamps and (2) #8 x 1/2" pan head screws as shown in Photo 11, below.



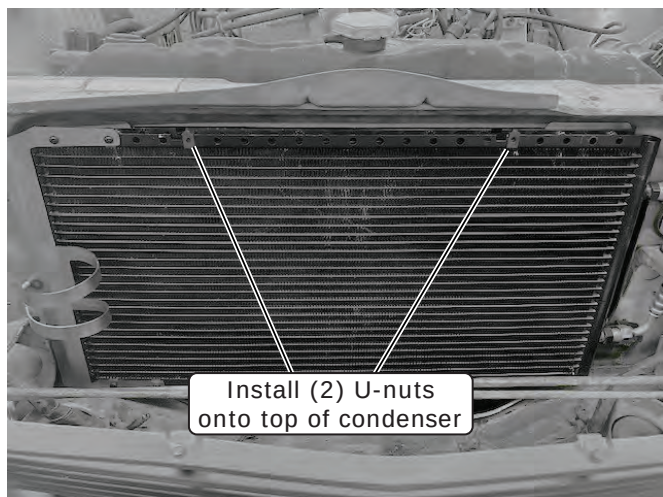
Incorrect

Photo 8



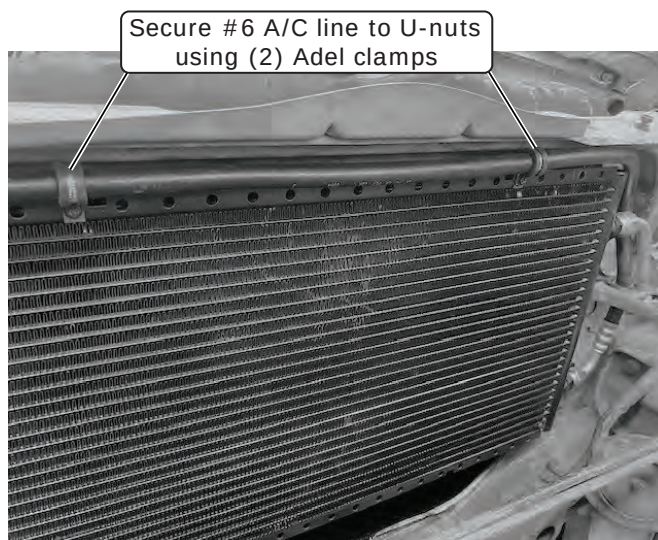
Correct

Photo 9



Install (2) U-nuts
onto top of condenser

Photo 10



Secure #6 A/C line to U-nuts
using (2) Adel clamps

Photo 11



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Condenser Installation (Cont.)

6. Install the drier into the bracket and secure using 1/4-20 hex nut with star washer as shown in Photo 12, below.
7. With a properly lubricated O-ring (See Lubricating O-rings, Page 6), connect the #6 condenser line to the drier and install the male binary switch as shown in Photo 12 and 13, below. **NOTE: Ensure proper flow direction on drier (See Figure 1, below).**
8. Tighten all hardware.

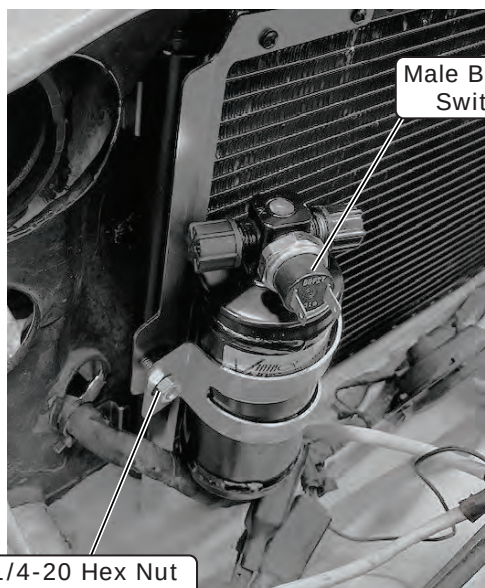


Photo 12

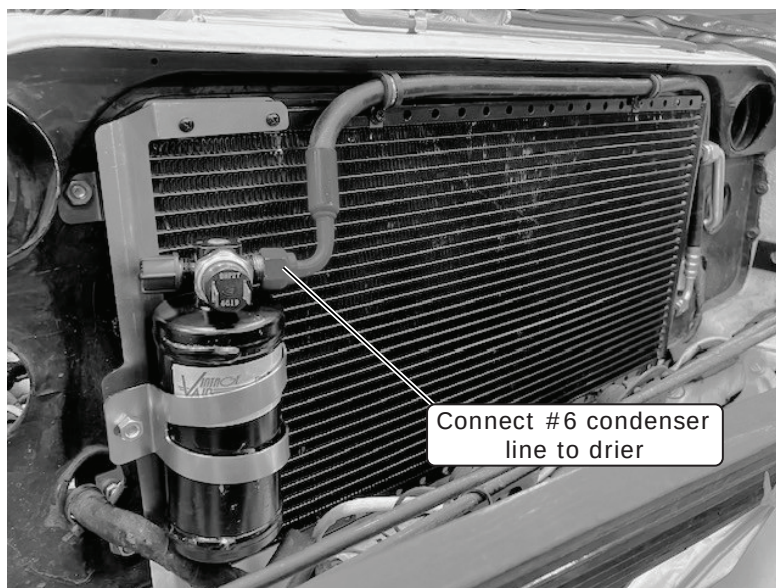


Photo 13

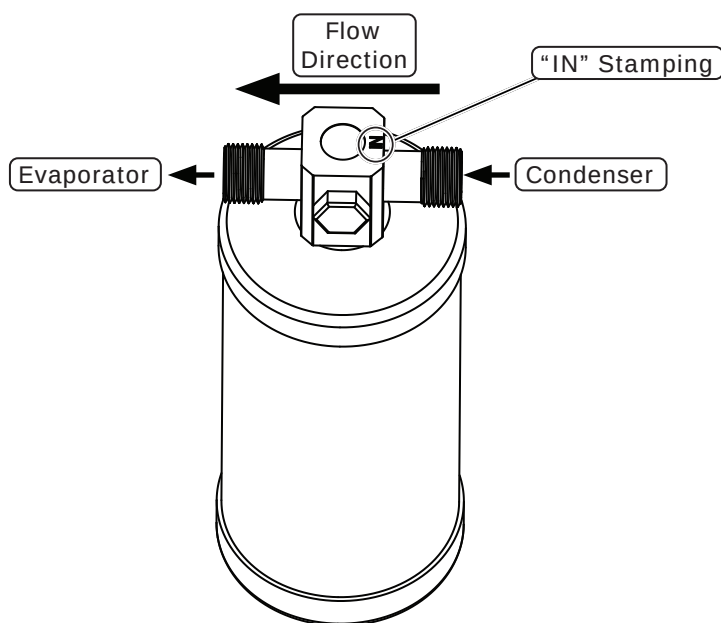


Figure 1



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Condenser Installation (Final)

9. Identify the hardline support bracket.
10. Secure the hardline to the inner fender well using the bracket and Adel clamp with provided hardware, See Figure 2 and Photo 14, below.

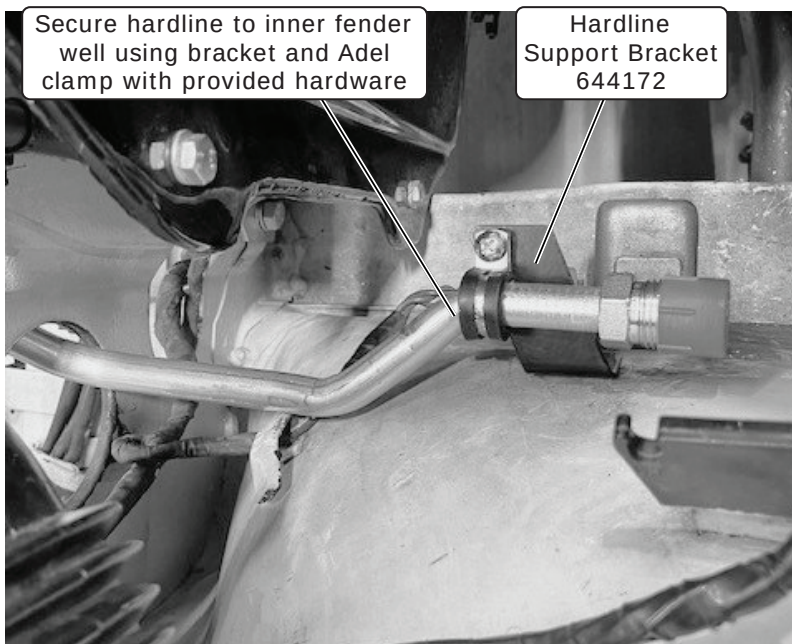


Photo 14

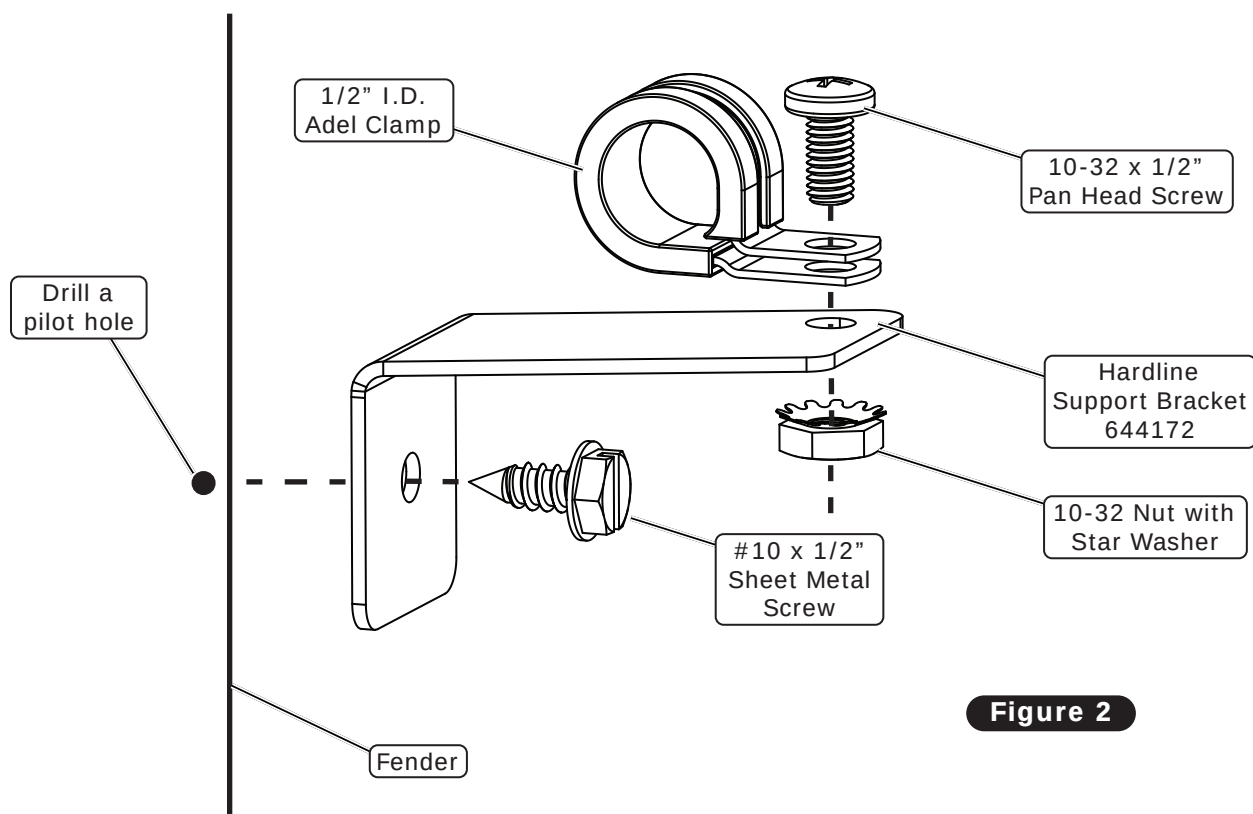


Figure 2



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Packing List: Condenser Kit (039025)

O-rings / Refrigerant Oil

	Qty		Part No	Description
	1	☐	11079-VUS	Binary Switch, Male
	1	☐	18152-VUB	Nut with Star Washer, 1/4-20, Hex
	4	☐	18235-VUB	Screw, #8 x 1/2", Pan Head
	2	☐	182353	Screw, #8 x 1/2", Wide Head
	1	☐	18247-VUB	Screw, #10 x 1/2", Sheet Metal
	8	☐	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
	8	☐	18260-VUB	Nut with Star Washer, 10-24
	6	☐	189801	U-nut, #8
	1	☐	23135-VUW	Compressor Lead
	3	☐	31603-VUD	Adel Clamp, 1/2" I.D.
	1	☐	33135-VUI	Grommet, 1 1/4" with 3/8" 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
	1	☐	641996	Bracket, Drier
	1	☐	641997	Bracket, Passenger-Side, Condenser
	1	☐	641998	Bracket, Driver-Side, Condenser
	1	☐	644172	Bracket, Hardline Support

Packed By: _____

Hardlines / Hoses

	Qty		Part No	Description
	1	☐	122025	Hardline, #8 Condenser
	1	☐	122026	Hose, #6 A/C, Condenser/Drier

Packed By: _____

Condenser / Drier

	Qty		Part No	Description
	1	☐	03702-OVH	Condenser, 12" x 24"
	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.**