



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.



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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.

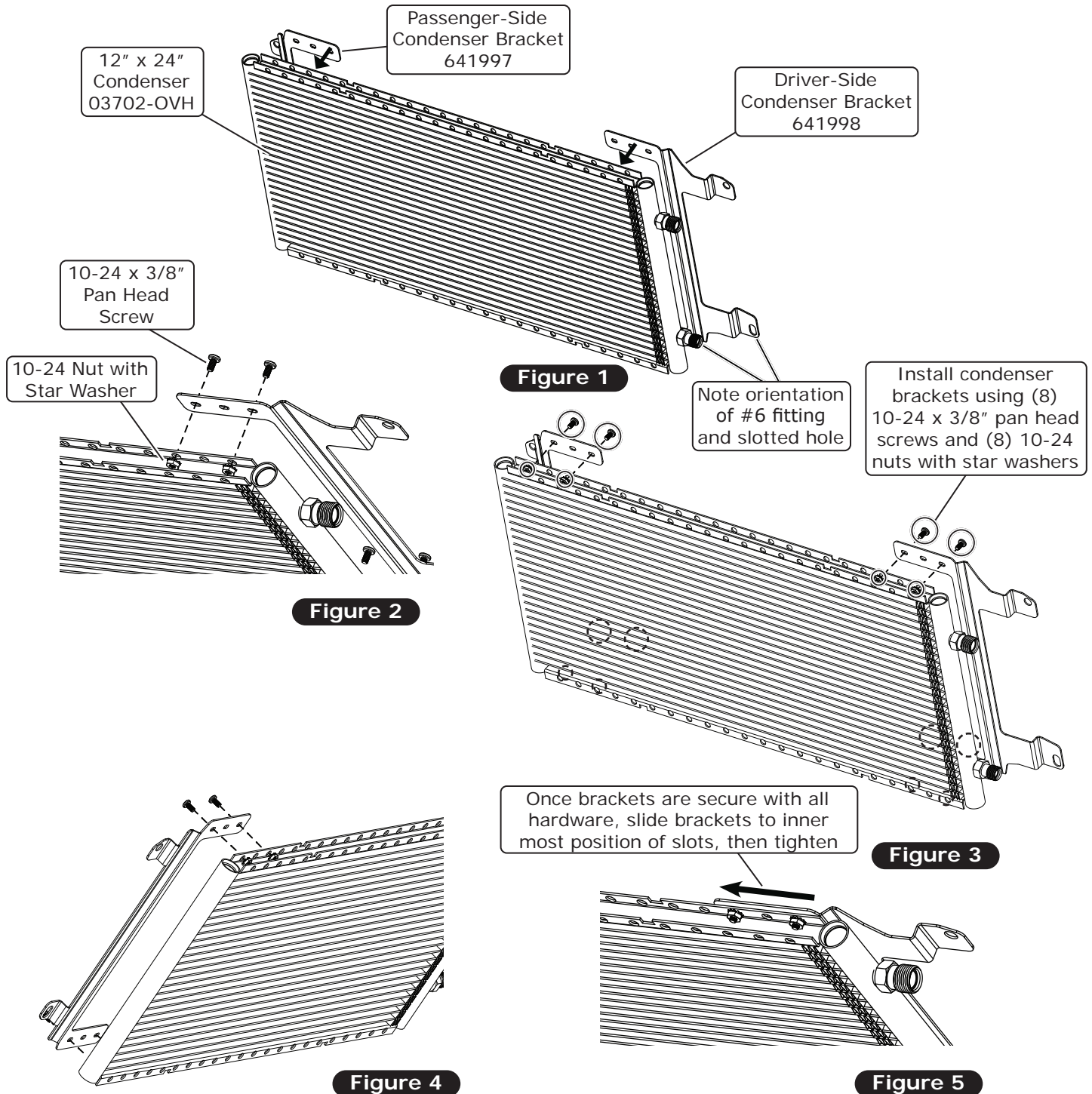


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Bracket Assembly

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.





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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.

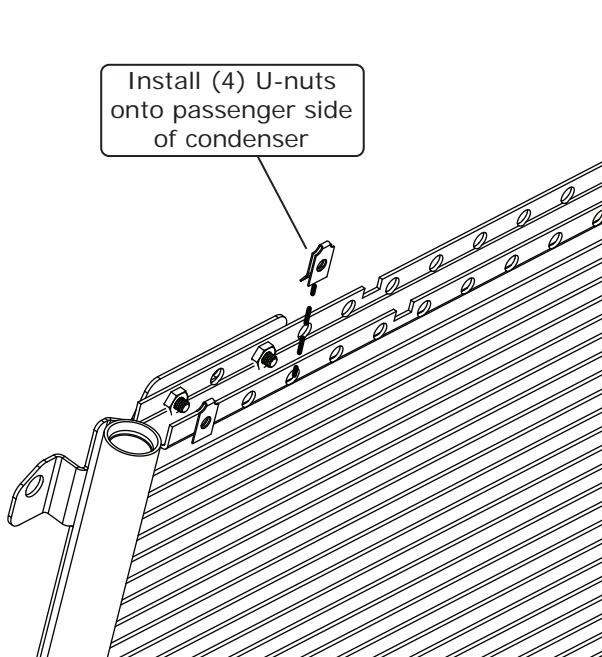


Figure 6

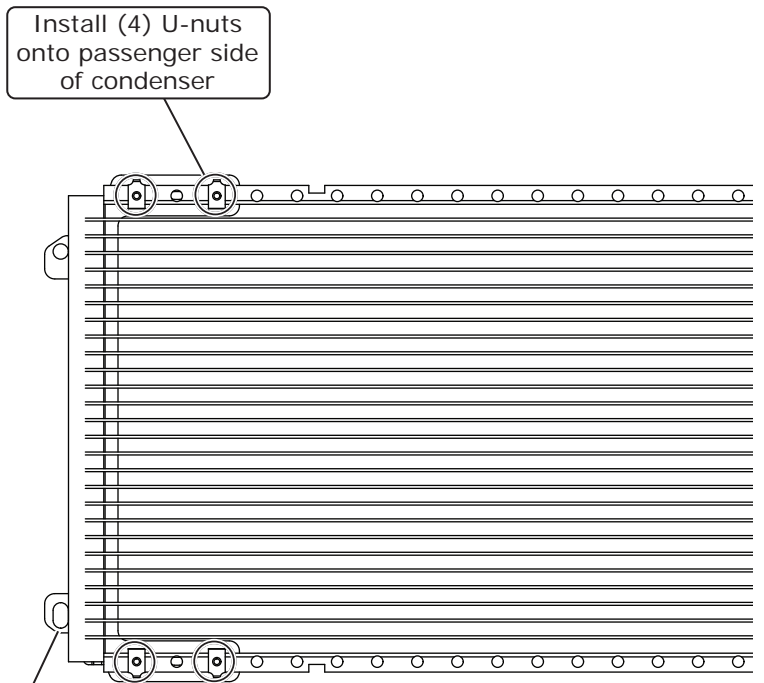


Figure 7

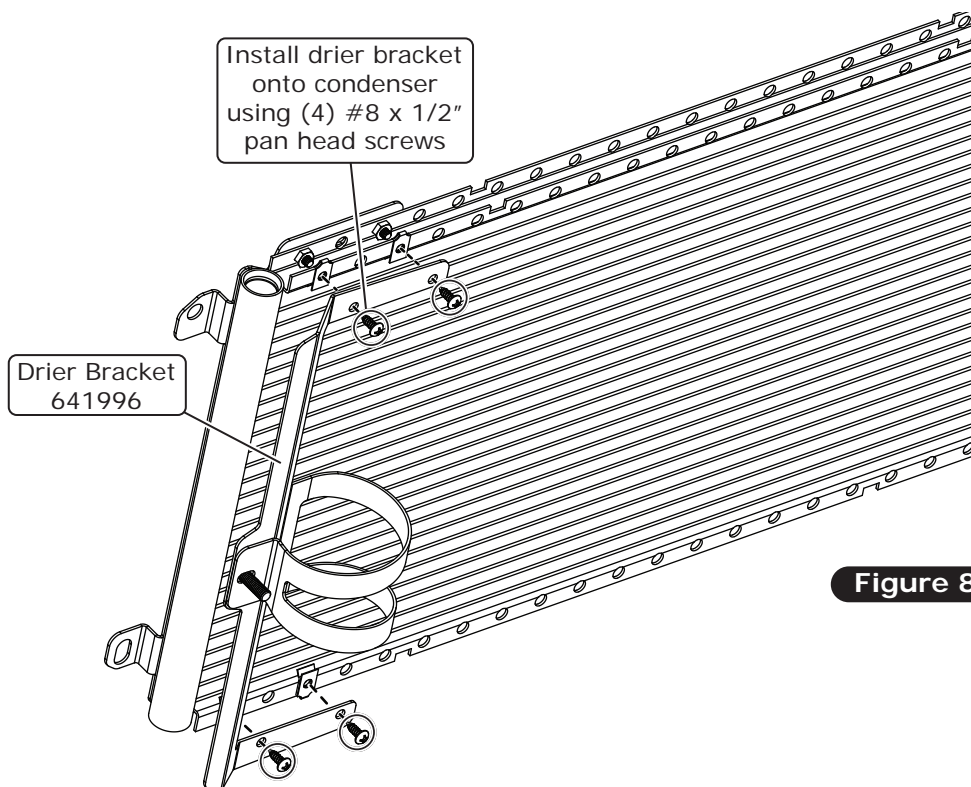


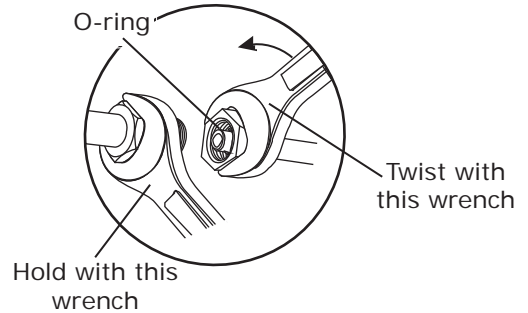
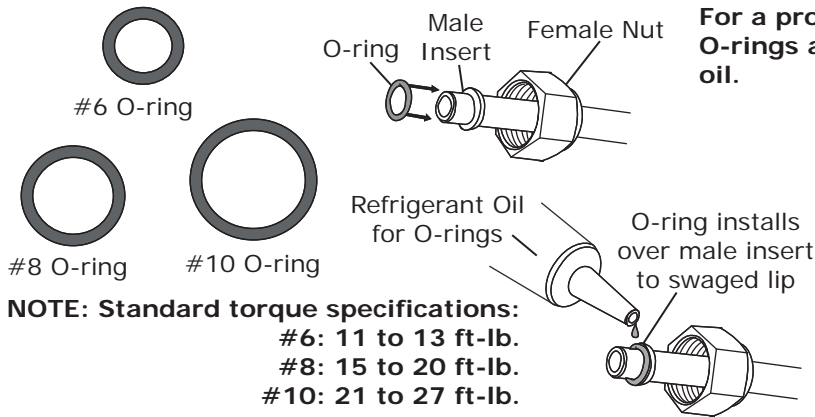
Figure 8



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Lubricating O-rings

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. All necessary mounting points should remain the same.

- Using the (4) OEM radiator/condenser mounting bolts (if applicable), 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: The condenser is intended to be installed using the factory radiator mounting hardware. If the factory radiator and or hardware are not being used, you must supply your own hardware. If equipped with OEM horns mounted in front of the core support, temporarily removing them may ease installation.

(4) OEM radiator mounting bolts

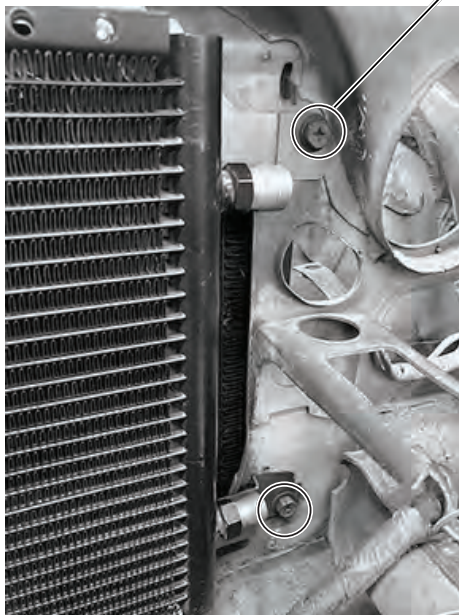


Photo 1

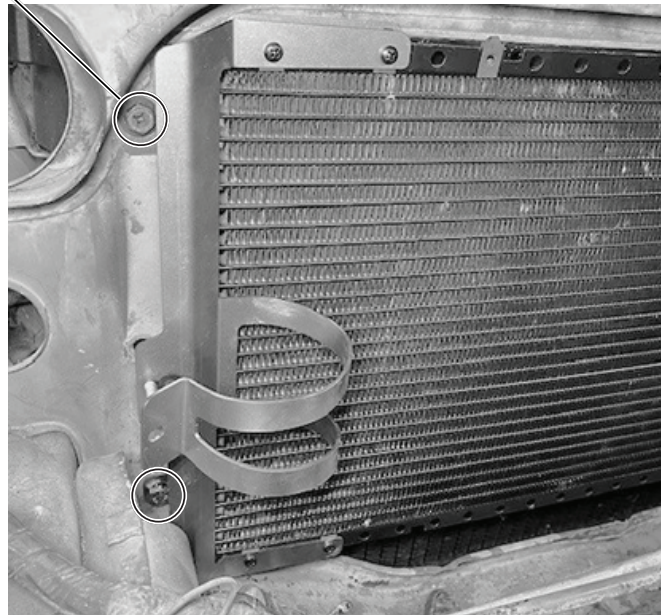


Photo 2



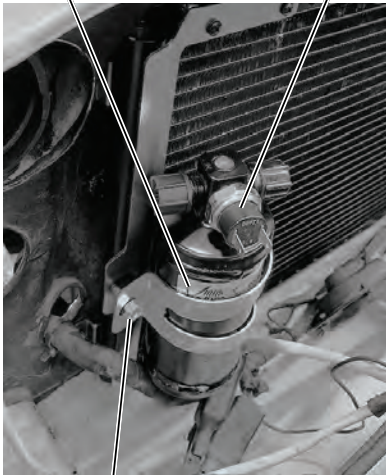
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Condenser Installation (Cont.)

2. Install the drier into the bracket and secure it using a 1/4-20 hex nut with star washer as shown in Photo 3, below. Leave loose. **NOTE: Ensure proper flow direction on drier (See Figure 1, below).**
3. With properly lubricated O-rings (See Lubricating O-rings, Page 6), install the #6 hardline onto the drier and #6 condenser fitting as shown in Photo 4, below.
4. Install the male binary switch onto the drier (See Photo 3, below).
5. Tighten all hardware at this time.

Install drier into bracket

Male Binary Switch



1/4-20 Hex Nut with Star Washer

Photo 3

Install #6 hardline onto drier and #6 condenser fitting

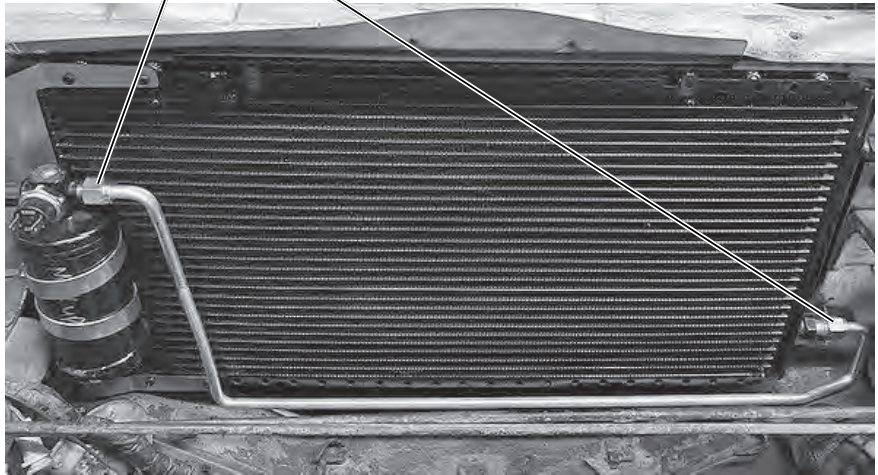


Photo 4

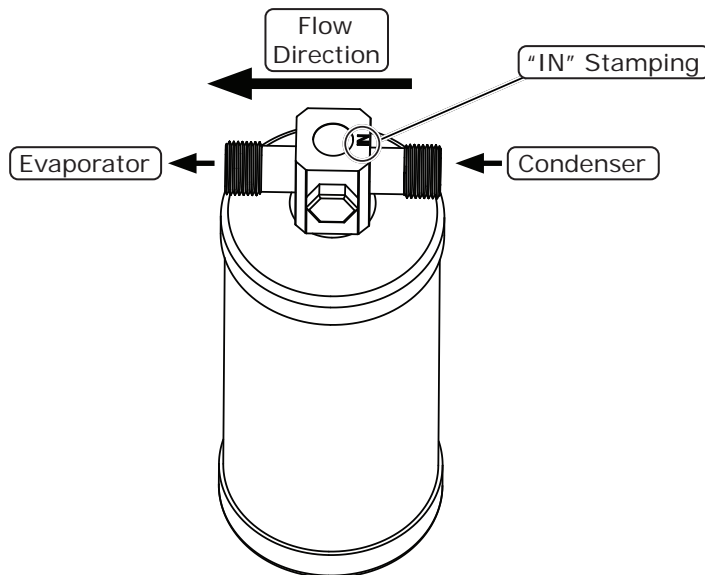


Figure 1



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Condenser Installation (Cont.)

- With a properly lubricated O-ring (See Lubricating O-rings, Page 6), install the #8 hardline onto the #8 fitting of the condenser as shown in Photo 5, 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 5, below). **NOTE: Be sure the hardline is not pressed against or making contact with any other surfaces.**

NOTE: 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 6 and 7, below, to allow clearance for the hardline.

- Install (2) U-nuts onto the bottom of the condenser (See Photo 8, below), then secure the #6 hardline to the U-nuts using (2) Adel clamps and (2) #8 x 1/2" pan head screws as shown in Photo 9, below.

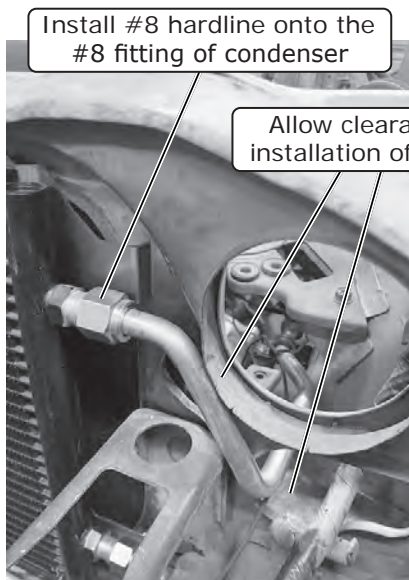


Photo 5



Incorrect



Correct

Photo 7

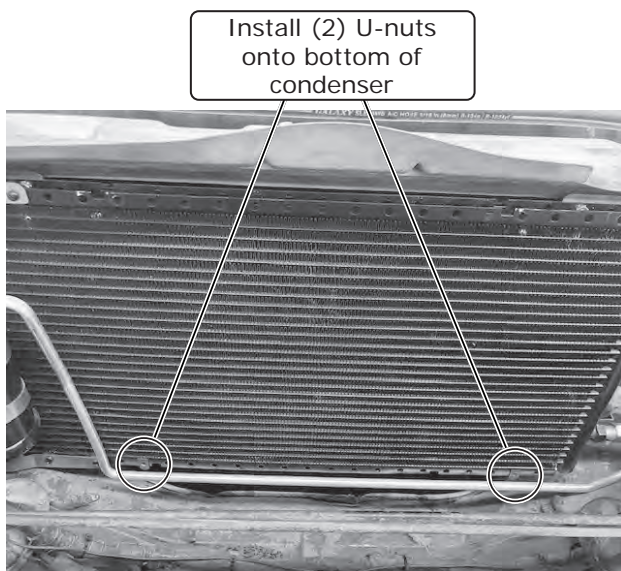


Photo 8

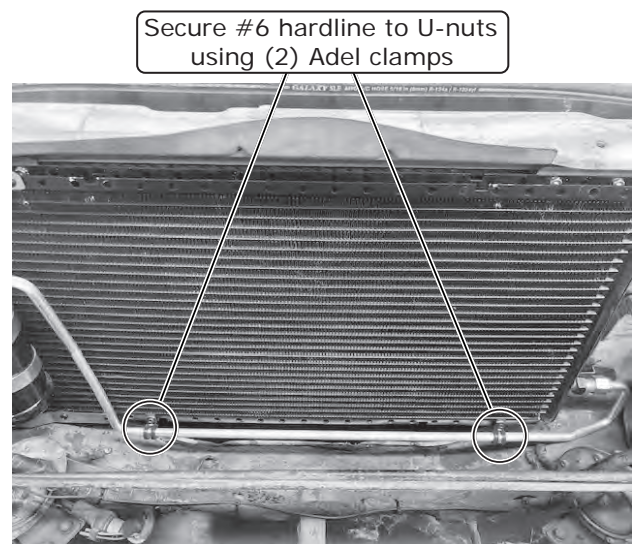


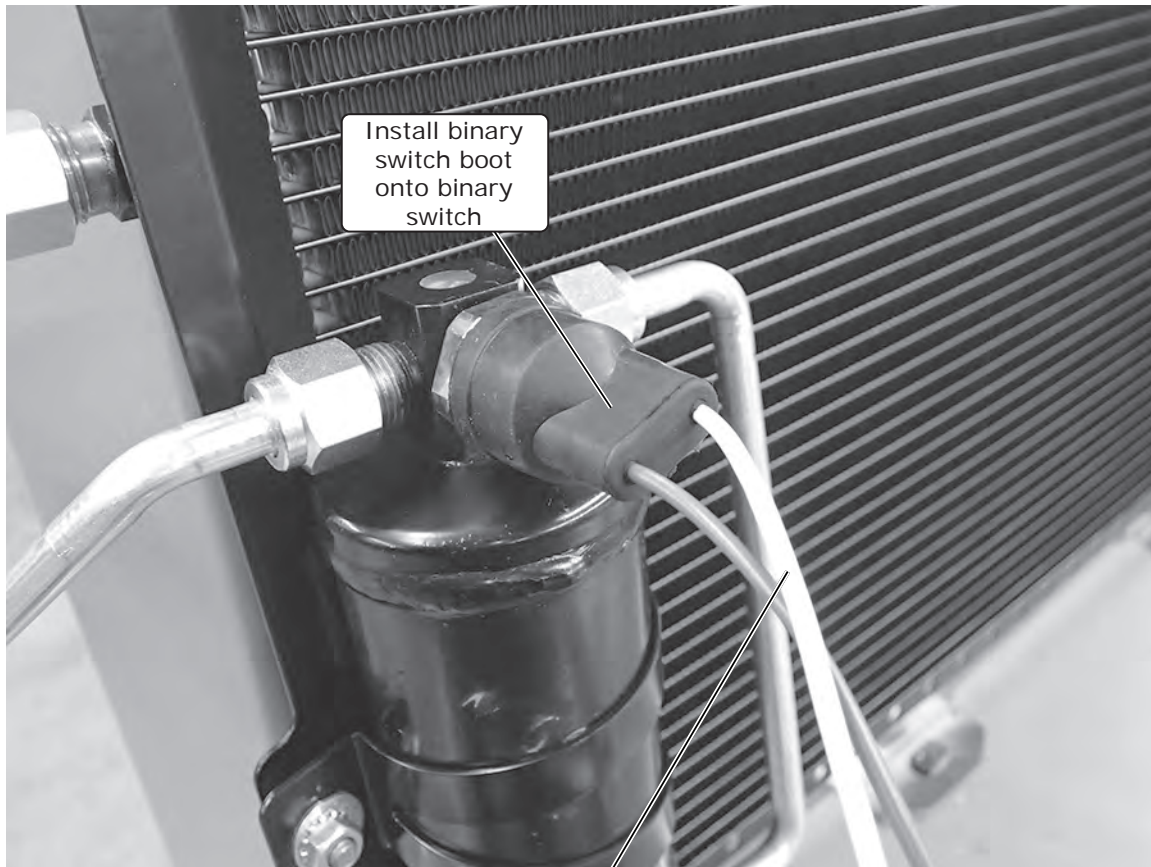
Photo 9



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Condenser Installation (Cont.)

8. Install the supplied binary switch boot onto the binary switch as shown in Photo 10, below. One of the wires will connect to the compressor lead and the other will connect to the blue wire on the main harness.
9. Loom wires with provided 1/4" flexo sleeve.



Install binary
switch boot
onto binary
switch

Loom wires
with 1/4"
flexo sleeve

Photo 10

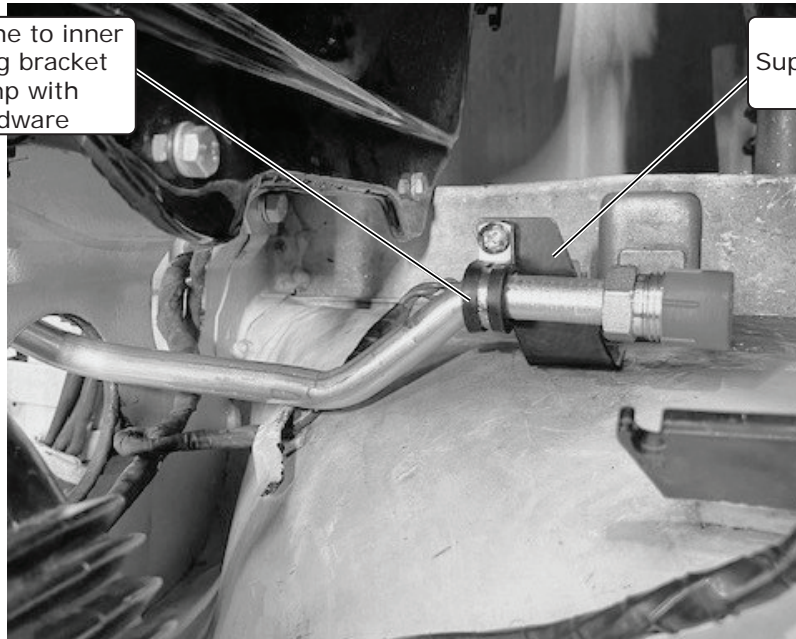


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Condenser Installation (Final)

10. Locate the hardline support bracket.
11. Secure the #8 hardline to the inner fender well using the bracket and Adel clamp with provided hardware (See Figure 2 and Photo 11, below).

Secure #8 hardline to inner fender well using bracket and Adel clamp with provided hardware



Hardline Support Bracket 644172

Photo 11

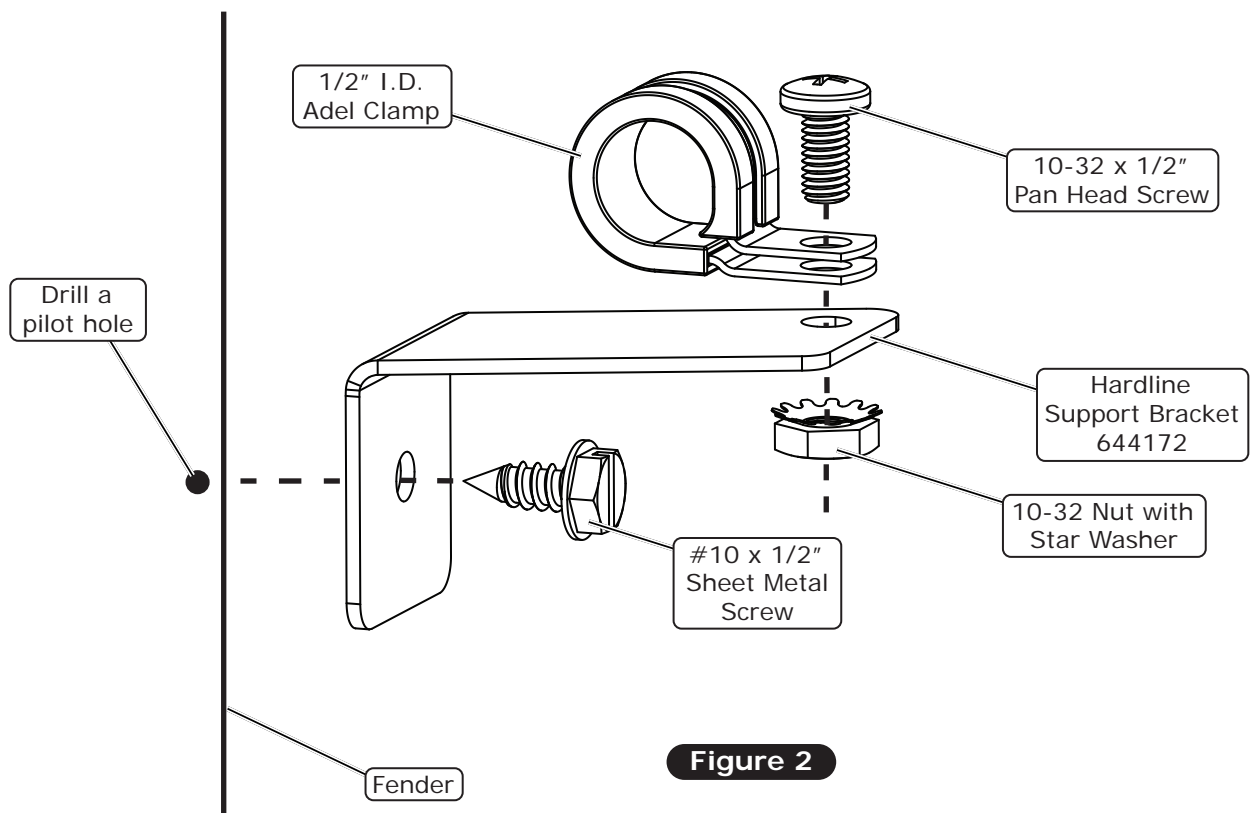


Figure 2



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Packing List: Condenser Kit (039025)

O-rings/Refrigerant Oil

	Qty		Part No	Description
	1	<input type="checkbox"/>	11079-VUS	Binary Switch, Male
	1	<input type="checkbox"/>	110790	Binary Switch Boot
	1	<input type="checkbox"/>	18152-VUB	Nut with Star Washer, 1/4-20, Hex
	4	<input type="checkbox"/>	18235-VUB	Screw, #8 x 1/2", Pan Head
	2	<input type="checkbox"/>	182353	Screw, #8 x 1/2", Wide Head
	1	<input type="checkbox"/>	18247-VUB	Screw, #10 x 1/2", Sheet Metal
	8	<input type="checkbox"/>	18249-VUB	Screw, 10-24 x 3/8", Pan Head
	1	<input type="checkbox"/>	18250-VUB	Screw, 10-32 x 1/2", Pan Head
	1	<input type="checkbox"/>	18251-VUB	Nut with Star Washer, 10-32
	8	<input type="checkbox"/>	18260-VUB	Nut with Star Washer, 10-24
	6	<input type="checkbox"/>	189801	U-nut, #8
	2	<input type="checkbox"/>	226004	Splice, Butt 22-16 AWG
	48"	<input type="checkbox"/>	238013	Flexo Sleeve, 1/4"
	1	<input type="checkbox"/>	23135-VUW	Compressor Lead
	2	<input type="checkbox"/>	31600-VUD	Adel Clamp 3/8" I.D.
	1	<input type="checkbox"/>	31603-VUD	Adel Clamp, 1/2" I.D.

Packed By: _____

	Qty		Part No	Description
	4	<input type="checkbox"/>	33857-VUF	O-ring, #6
	3	<input type="checkbox"/>	33858-VUF	O-ring, #8
	1	<input type="checkbox"/>	41117-VUP	Refrigerant Oil

Packed By: _____

Brackets

	Qty		Part No	Description
	1	<input type="checkbox"/>	641996	Bracket, Drier
	1	<input type="checkbox"/>	641997	Bracket, Passenger-Side, Condenser
	1	<input type="checkbox"/>	641998	Bracket, Driver-Side, Condenser
	1	<input type="checkbox"/>	644172	Bracket, Hardline Support

Packed By: _____

Hardlines/Hoses

	Qty		Part No	Description
	1	<input type="checkbox"/>	122025	Hardline, #8 Condenser
	1	<input type="checkbox"/>	122033	Hardline, #6 Condenser/Drier

Packed By: _____

Condenser/Drier

	Qty		Part No	Description
	1	<input type="checkbox"/>	03702-OVH	Condenser, 12" x 24"
	1	<input type="checkbox"/>	07321-VUC	Drier

Packed By: _____

Inspected By: _____

Date: _____