



1971-73 Ford Mustang

Condenser Kit *with* Drier
(011071)



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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):

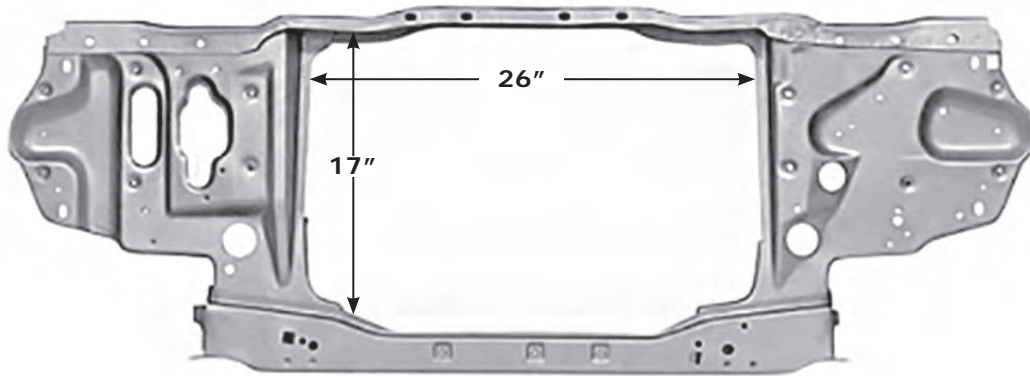
Heater hose may be purchased from Vintage Air (Part#31800-VUD) or your local parts retailer. Routing and required length will vary based on installer preference.



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Core Support Measurements

This kit was developed based on the measurements below, which were taken from a 1972 Ford Mustang Mach 1 with factory air.





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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, photos & diagrams.

Perform the following:

1. Disconnect the battery.
2. Remove the hood latch bracket assembly and the factory U-nuts as shown in Photos 1 and 2, below.
NOTE: The following steps are for with A/C vehicles only.
3. Remove the factory condenser and hardlines (See Photos 3 and 4, below).
4. Remove the (2) lower factory U-nuts as shown in Photo 5, below.

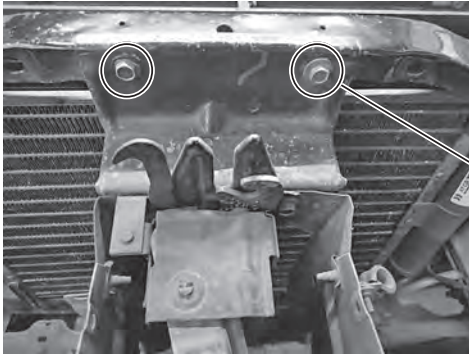


Photo 1

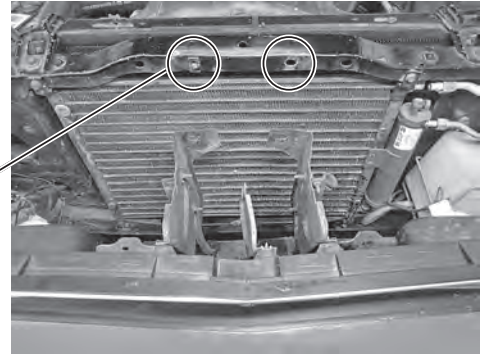


Photo 2

Remove hood latch bracket assembly and factory U-nuts

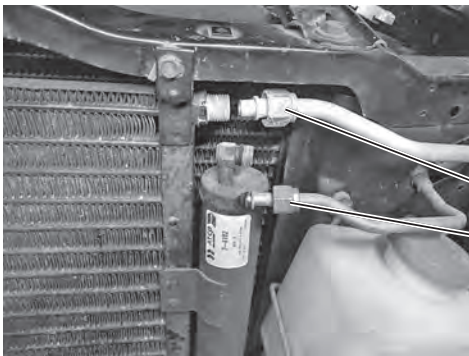


Photo 3

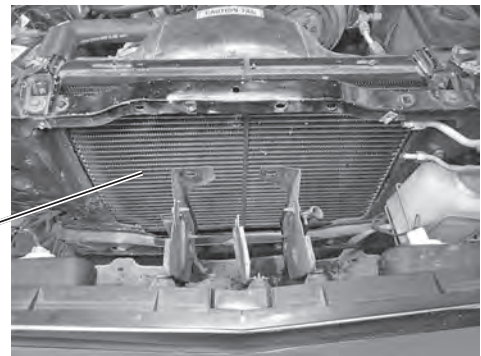


Photo 4

Remove factory condenser and hardlines



Photo 5

Remove (2) lower factory U-nuts



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Core Support Modification

NOTE: This condenser kit is designed for with and without A/C vehicles.

1. Locate the core support template (See Photo 1, below).
2. Line up the template with the factory holes on the driver side of the core support, then mark the holes to be drilled as shown in Photos 1 and 2, below.
3. Remove the template, then drill (2) core support plate mounting holes using a 1/4" drill bit (See Photo 3, below).
4. If the oval shape is not cut out of your core support, drill the (2) holes in the center of the template, then enlarge the holes to 1 1/4" to accommodate the hardline grommets.

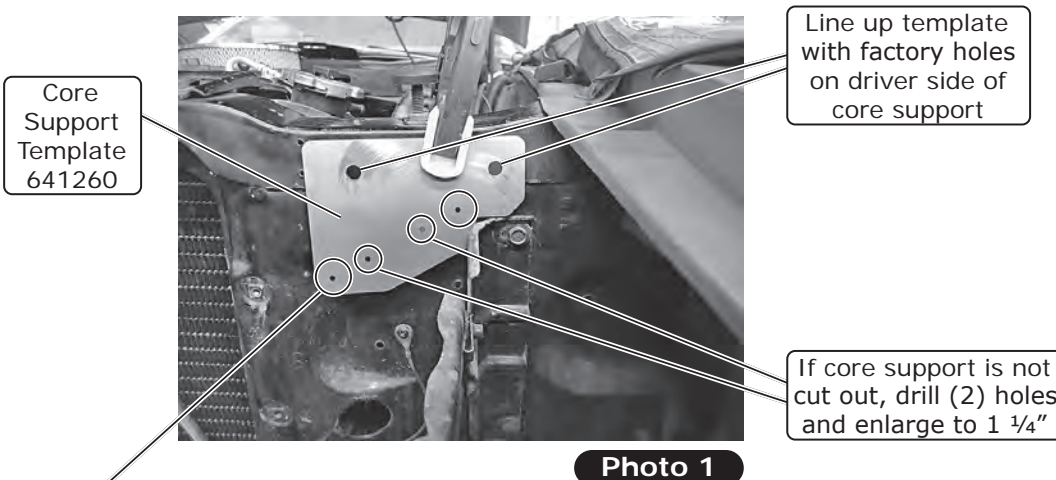


Photo 1

Mark holes to be drilled

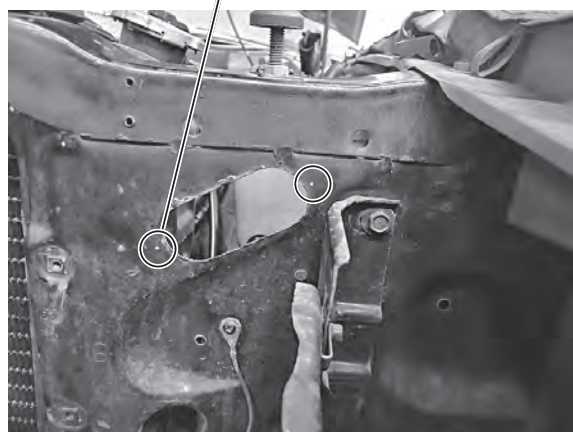


Photo 2

Remove template, then drill (2) mounting holes using a 1/4" drill bit

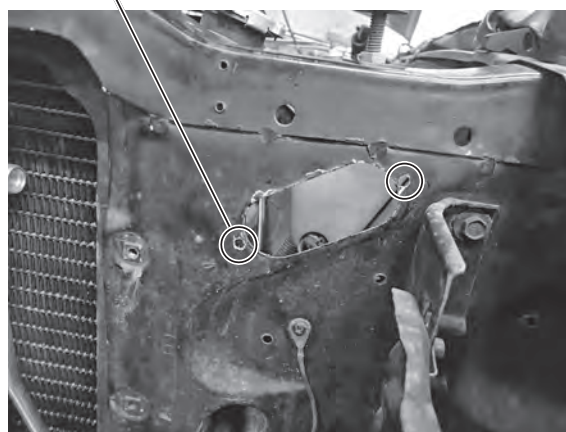


Photo 3



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Condenser and Drier Mounting Bracket Installation

NOTE: Some adjustments may be necessary after the bracket installation. Leave hardware with a small amount of movement.

On a workbench, perform the following:

1. With the condenser ports facing right, and the #8 condenser port on top, install the top condenser bracket onto the 8th, 11th and 14th (counting from left to right) mounting provisions using (3) 10-24 x 3/8" pan head screws, and (3) 10-24 nuts with star washers (See Photo 1, below).
2. Install the passenger-side bottom condenser bracket onto the 1st and 3rd (counting from left to right) mounting provisions using (2) 10-24 x 3/8" pan head screws and (2) 10-24 nuts with star washers as shown in Photo 2, below.
3. Using (2) 10-24 x 3/8" pan head screws and (2) 10-24 nuts with star washers, secure the universal drier mount to the 18th and 20th (counting from left to right) mounting provisions on the upper condenser mount (See Photo 3, below).
4. Slide the driver-side bottom condenser bracket under the universal drier bracket, then secure the brackets to the condenser in the 18th and 20th (counting from left to right) mounting provisions using (2) 10-24 x 3/8" pan head screws and (2) 10-24 nuts with star washers as shown in Photo 4, below.
5. Install (2) 5/16" U-nuts onto the top condenser bracket (See Photo 5, below).

Top Condenser Bracket
641268

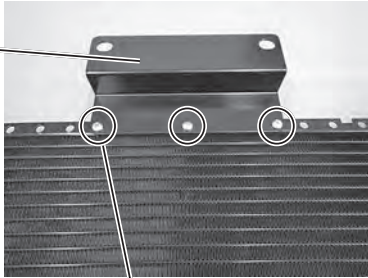


Photo 1

Install using (3) 10-24 x 3/8" Pan Head Screws and (3) 10-24 Nuts with Star Washers into 8th, 11th, and 14th mounting provisions

Passenger-Side Bottom Condenser Bracket
641267

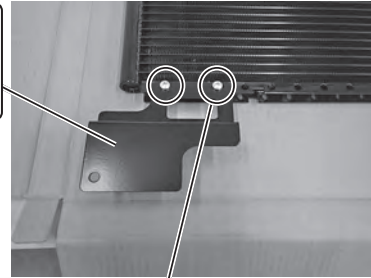


Photo 2

Install using (2) 10-24 x 3/8" Pan Head Screws and (2) 10-24 Nuts with Star Washers into 1st and 3rd mounting provisions

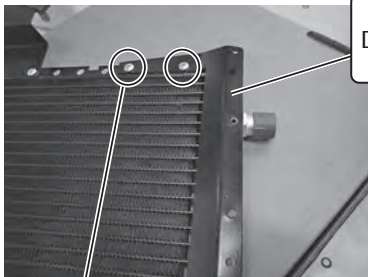


Photo 3

Secure using (2) 10-24 x 3/8" Pan Head Screws and (2) 10-24 Nuts with Star Washers into 18th and 20th mounting provisions

Universal Drier Bracket
65998-VUB

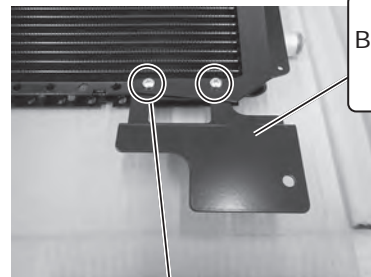


Photo 4

Slide driver-side bottom condenser bracket under universal drier bracket, then secure using (2) 10-24 x 3/8" Pan Head Screws and (2) 10-24 Nuts with Star Washers into 18th and 20th mounting provisions

Driver-Side Bottom Condenser Bracket
641266

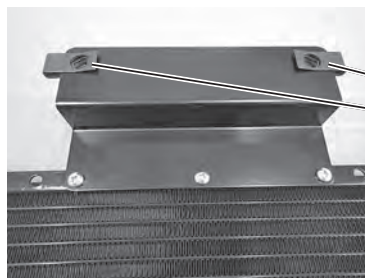


Photo 5

Install (2) 5/16" U-nuts onto top condenser bracket



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Condenser Installation

1. Install (2) 1/4-20 U-nuts onto the lower core support in the factory locations (See Photos 1 and 2, below).
2. Insert the condenser assembly into the core support opening and using (2) 5/16-18 x 3/4" self-tapping screws, loosely secure the upper condenser mount to the hood latch bracket (See Photo 3, below).
3. Install (2) 1/4-20 x 1/2" flange head black bolts into the bottom mounting brackets (See Photos 4 and 5, below).

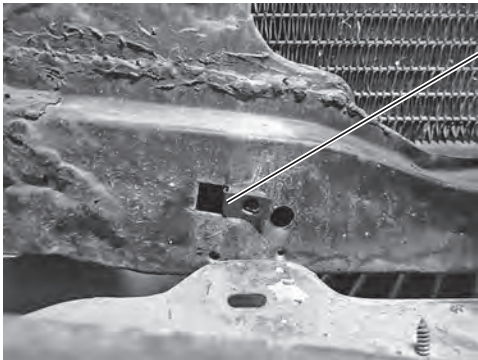


Photo 1

Install (2) 1/4-20 U-nuts onto lower core support in factory locations

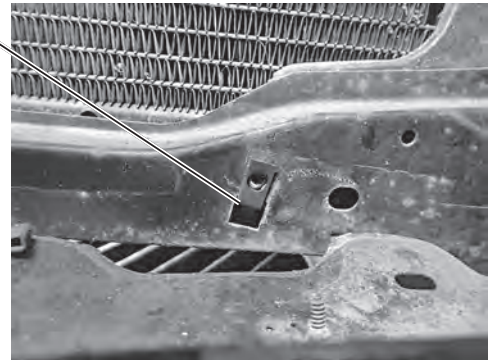


Photo 2

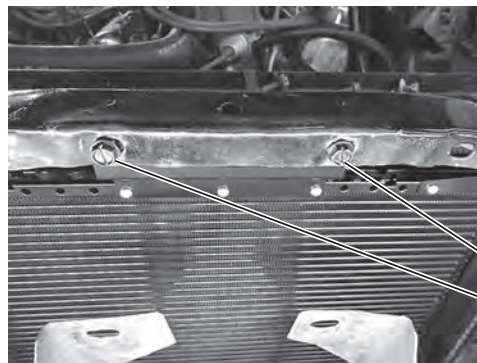


Photo 3

Using (2) 5/16-18 x 3/4" Self-Tapping Screws, loosely secure upper condenser mount to hood latch bracket



Photo 4

Install (2) 1/4-20 x 1/2" Flange Head Black Bolts into bottom mounting brackets

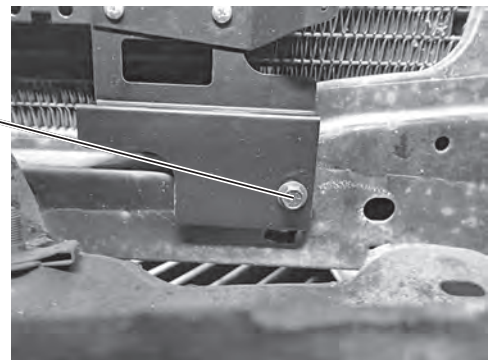


Photo 5



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Drier and Hardline Installation

NOTE: Drier contains a desiccant that will quickly absorb moisture from the atmosphere and can lose effectiveness in less than 30 minutes. Remove caps and plugs only long enough to install safety switch and hardlines onto a sealed condenser assembly. Do not uncap again until ready to connect hoses and evacuate system before charging.

Perform the following:

1. Install the drier clamps onto the drier, and secure them to the drier bracket using (2) #10 x 1/2" sheet metal screws in the 6th and 7th holes from the bottom as shown in Photo 1, below. **NOTE: Refrigerant flow through the drier is IN from condenser, OUT to evaporator.**
2. Install the (2) 1 1/4" with 3/8" hole grommets into the core support plate (See Photo 2, below).
3. Route the #8 condenser/compressor hardline through the grommet as shown in Photo 3, below. Then, with a properly lubricated #8 O-ring (See Lubricating O-rings and Fitting Torque Specs, Page 11), install the #8 condenser/compressor hardline onto the #8 fitting of the condenser.

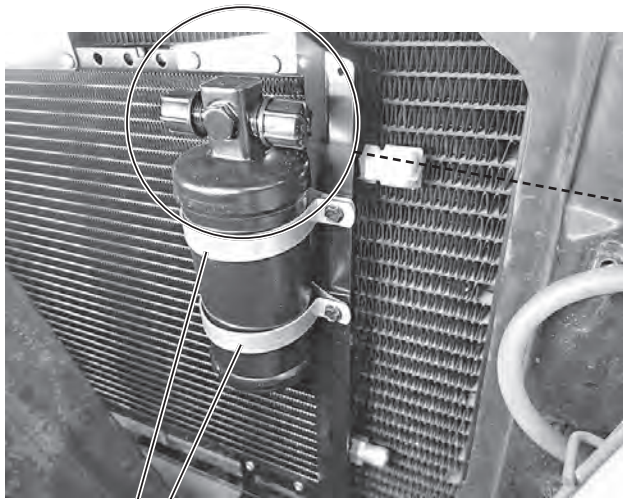
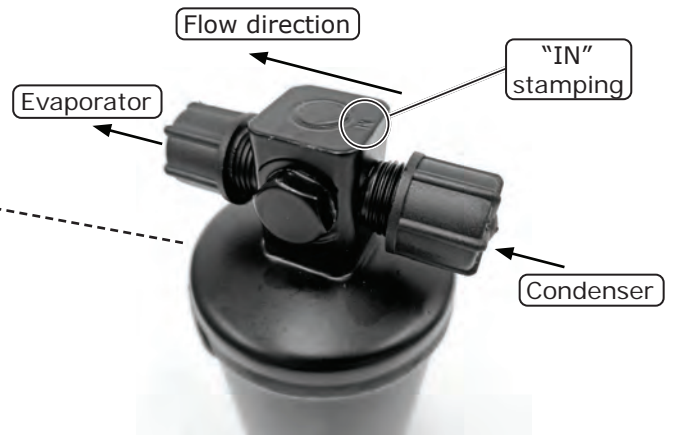


Photo 1

Install (2) Drier Clamps (07113-VUB) onto drier and secure them to drier bracket using (2) #10 x 1/2" Sheet Metal Screws



Install #8 Condenser/Compressor Hardline onto #8 fitting of condenser

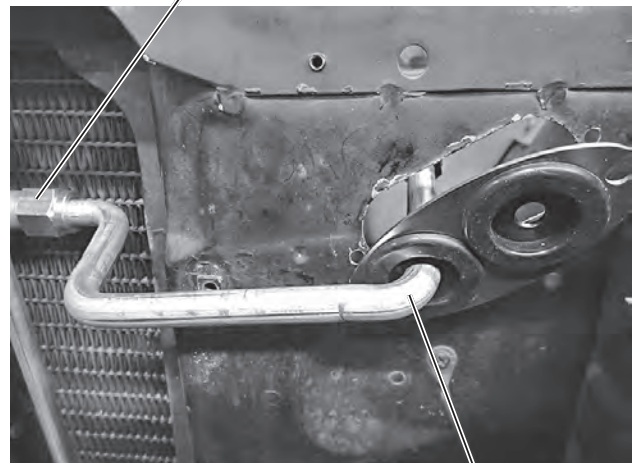


Photo 3

Route #8 Condenser/Compressor Hardline (081261) through grommet

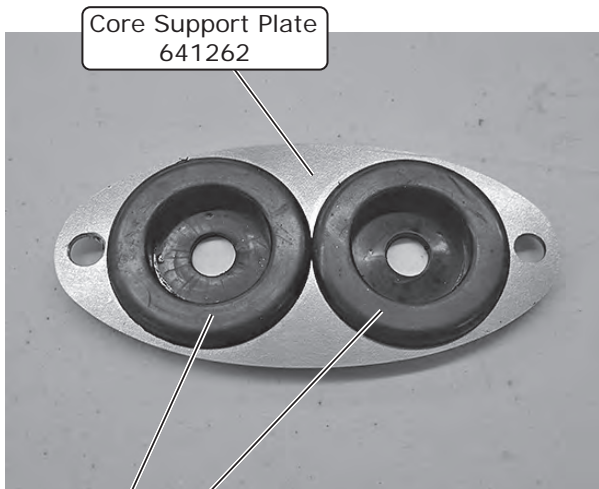


Photo 2

Install (2) 1 1/4" with 3/8" Hole Grommets into core support plate



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Drier and Hardline Installation (Cont.)

4. Using (2) properly lubricated #6 O-rings (See Lubricating O-rings and Fitting Torque Specs, Page 11), install one end of the hardline onto the #6 fitting of the condenser and the other end to the drier (See Photo 4, below). Tighten the fittings as shown in See Lubricating O-rings and Fitting Torque Specs, Page 11.
5. Route the #6 drier/evaporator hardline through the grommet, then with a properly lubricated #6 O-ring (See Lubricating O-rings and Fitting Torque Specs, Page 11), install the #6 drier/evaporator hardline onto the drier (See Photos 5 and 6, below).
6. Using (2) 10-24 x 3/8" screws and (2) 10-24 nuts with star washers, secure the core support plate to the core support as shown in Photo 7, below.

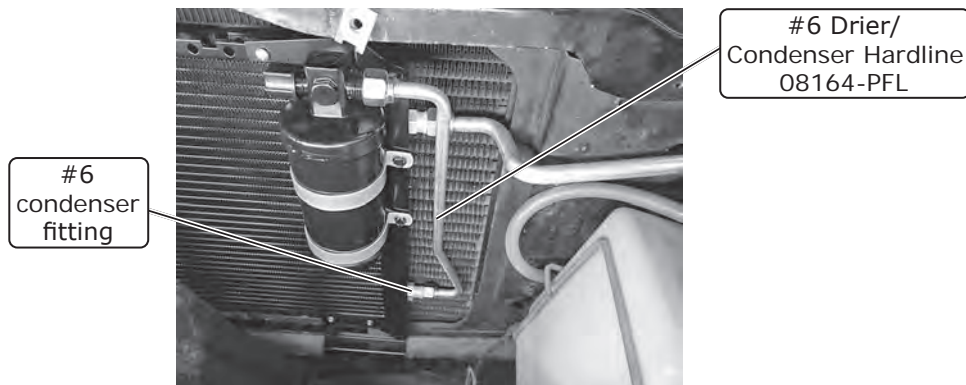


Photo 4

Route #6 Drier/Evaporator Hardline (081260) through grommet, and install onto drier

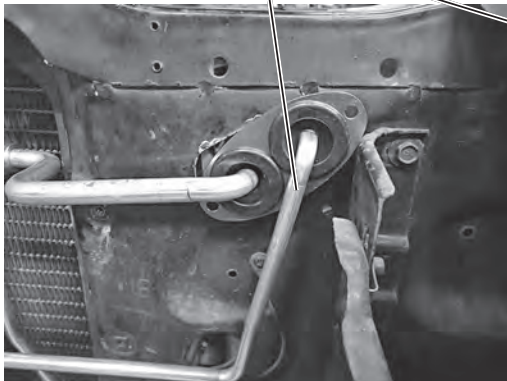


Photo 5

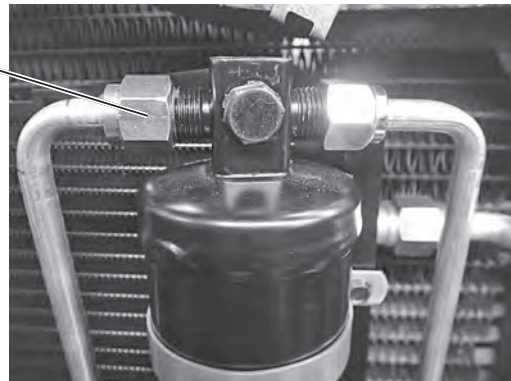


Photo 6



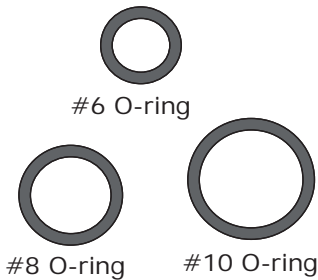
Using (2) 10-24 x 3/8" Screws and (2) 10-24 Nuts with Star Washers, secure core support plate to core support

Photo 7



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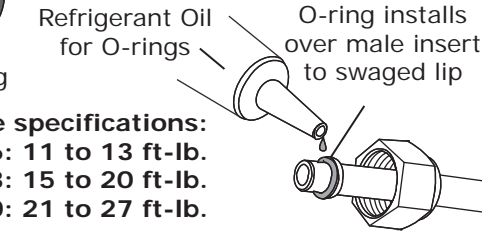
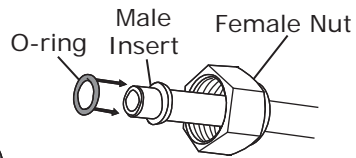
Lubricating O-rings & Fitting Torque Specs



#6 O-ring

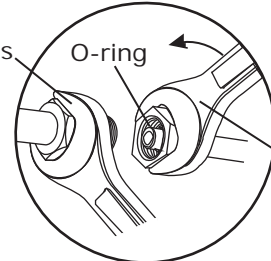
#8 O-ring

#10 O-ring



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

Hold with this wrench



Twist with this wrench

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

The use of a backup wrench is recommended to reduce the chance of damaging the fittings/hardline.

Binary Switch Installation

1. Lubricate the O-ring already installed on the binary switch (See Lubricating O-rings and Fitting Torque Specs, above), then install the switch onto the drier as shown in Photo 1, below. **NOTE: The binary switch and the drier each come with an O-ring. Use the O-ring that comes with the binary switch.**

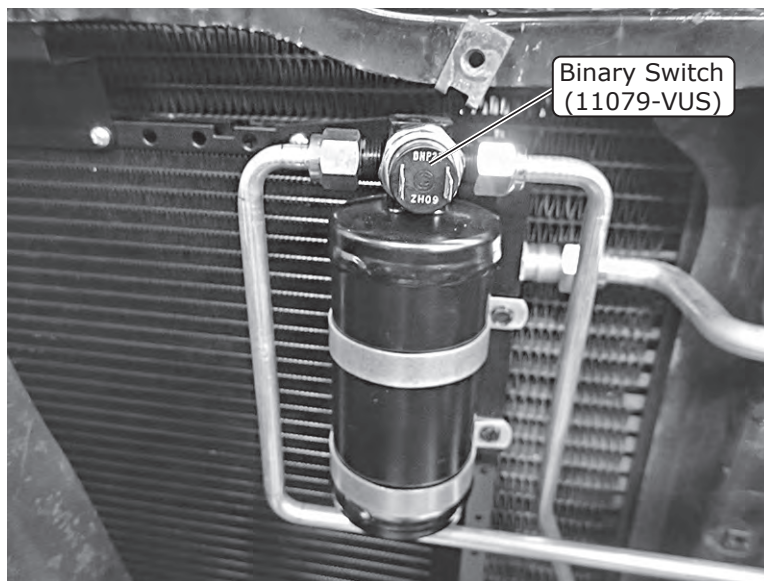


Photo 1



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Final Steps

1. Install the Adel clamp onto the #6 drier/evaporator hardline, and secure it to the drier bracket using a #10 x 1/2" sheet metal screw (See Photos 1 and 2, below).
2. Remove the (2) 5/16-18 x 3/4" self-tapping screws from the upper bracket, and reinstall the hood latch bracket assembly as shown in Photo 3, below.
3. Install the rubber boot over the binary switch connector (See Photo, 4, below).

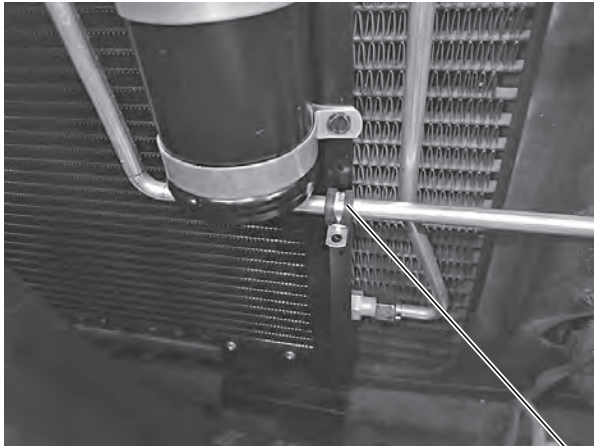


Photo 1

Install 1/2" I.D. Adel Clamp onto #6 drier/evaporator hardline, and secure it to drier bracket using a #10 x 1/2" sheet metal screw

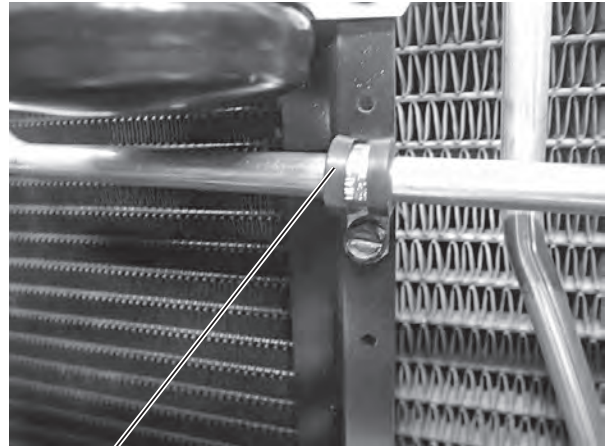


Photo 2

Remove (2) 5/16-18 x 3/4" Self-Tapping Screws from upper bracket and reinstall hood latch bracket assembly

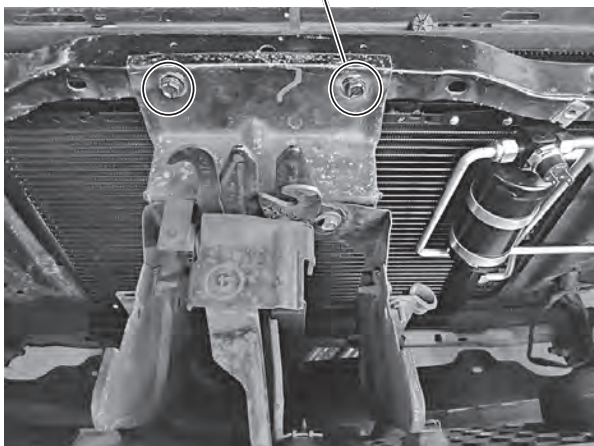


Photo 3

Install rubber boot over binary switch connector

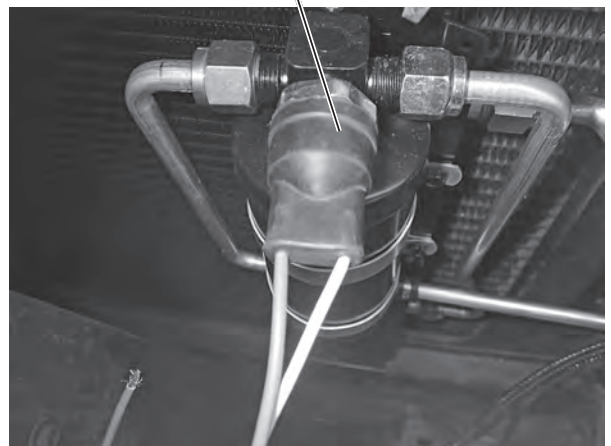


Photo 4



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Packing List: Condenser Kit (011071)

O-rings/Refrigerant Oil

	Qty		Part No	Description
	1	<input type="checkbox"/>	11079-VUS	Binary Switch, Male
	1	<input type="checkbox"/>	110790	Boot, Binary Switch
	2	<input type="checkbox"/>	182360	Screw, 5/16-18 x 3/4", Self-Tapping
	3	<input type="checkbox"/>	18247-VUB	Screw, #10 x 1/2", Sheet Metal
	9	<input type="checkbox"/>	18249-VUB	Screw, 10-24 x 3/8", Pan Head
	9	<input type="checkbox"/>	18260-VUB	Nut with Star Washer, 10-24
	2	<input type="checkbox"/>	182873	Bolt, 1/4-20 x 1/2", Flange Head, Black
	2	<input type="checkbox"/>	18977-VUB	U-Nut, 5/16"
	2	<input type="checkbox"/>	18978-VUB	U-Nut, 1/4-20
	1	<input type="checkbox"/>	23127-VUW	Compressor Lead, 72"
	1	<input type="checkbox"/>	31603-VUD	Adel Clamp, 1/2" I.D.
	2	<input type="checkbox"/>	33135-VUI	Grommet, 1 1/4" with 3/8" Hole

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
	2	<input type="checkbox"/>	07113-VUB	Clamp, Drier
	1	<input type="checkbox"/>	641260	Template, Core Support
	1	<input type="checkbox"/>	641262	Plate, Core Support
	1	<input type="checkbox"/>	641266	Bracket, Condenser, Driver-Side, Bottom
	1	<input type="checkbox"/>	641267	Bracket, Condenser, Pass-Side, Bottom
	1	<input type="checkbox"/>	641268	Bracket, Condenser, Top
	1	<input type="checkbox"/>	65998-VUB	Bracket, 14 3/4", Universal Drier

Packed By: _____

Hardlines/Hoses

	Qty		Part No	Description
	1	<input type="checkbox"/>	081260	Hardline, #6 Drier/Evaporator
	1	<input type="checkbox"/>	081261	Hardline, #8 Condenser/Compressor
	1	<input type="checkbox"/>	08164-PFL	Hardline, #6 Drier/Condenser

Packed By: _____

Condenser/Drier

	Qty		Part No	Description
	1	<input type="checkbox"/>	03766-VUC	Condenser, 14" x 22"
	1	<input type="checkbox"/>	07321-VUC	Drier

Packed By: _____

Inspected By: _____

Date: _____