



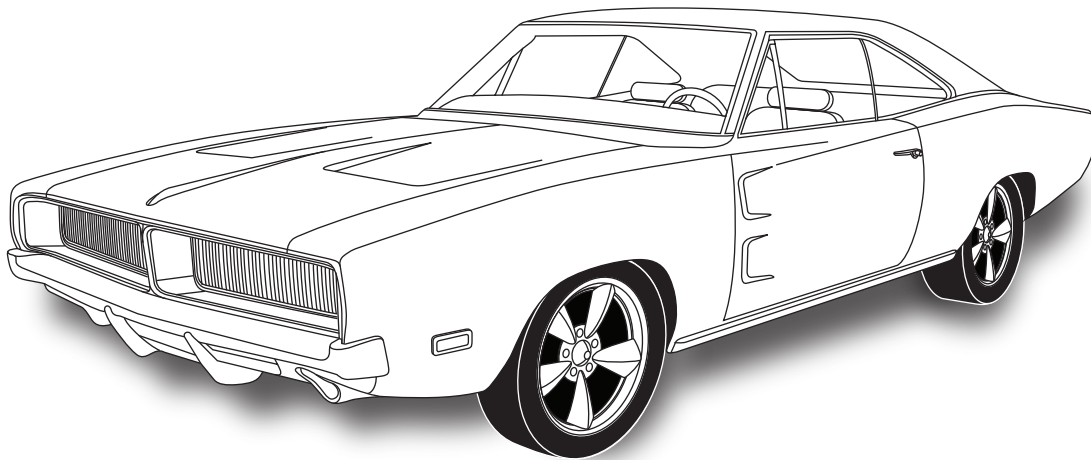
## 1966-70 Mopar B-Body

Condenser Kit *with* Drier  
(051066)

**Fits:**

**Plymouth: Belvedere, Satellite,  
Road Runner (Except 1970), GTX**

**Dodge: Charger (Except 1966-67), Coronet, Super Bee**



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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):

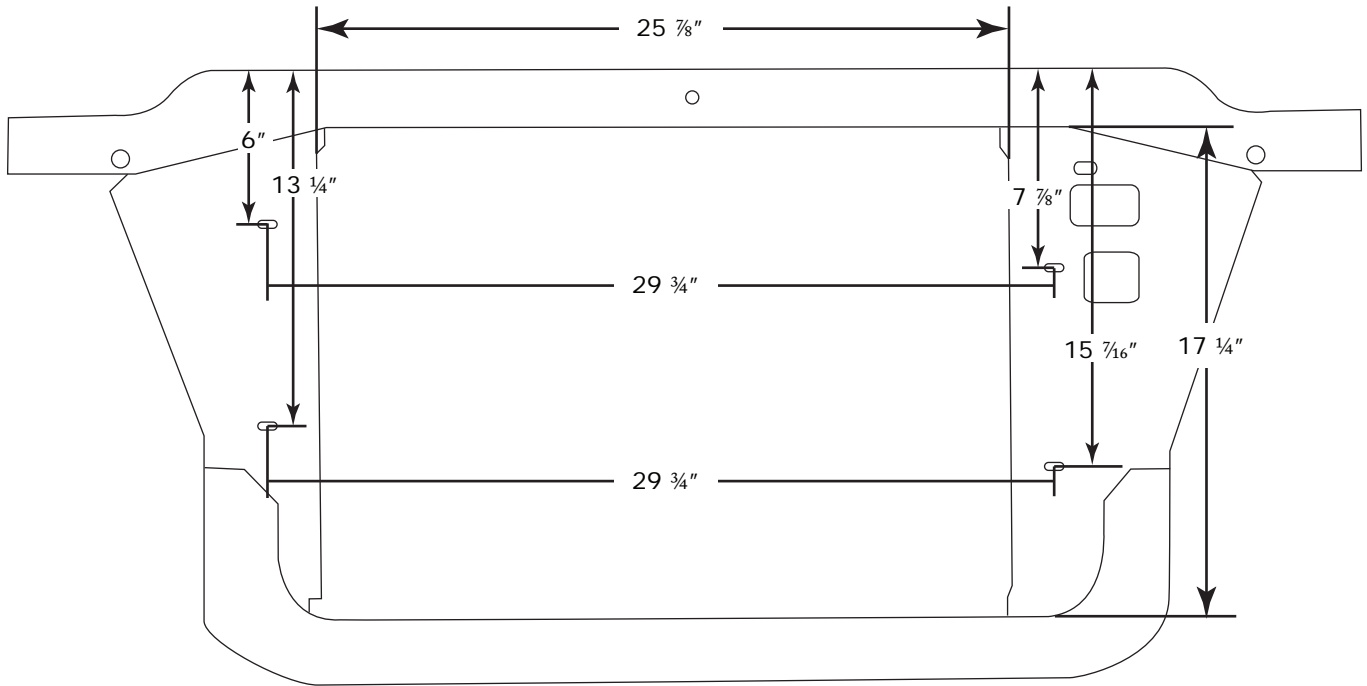
Heater hose may be purchased from Vintage Air (Part#31800-VUD) or your local parts retailer. Routing and required length will vary based on installer preference.



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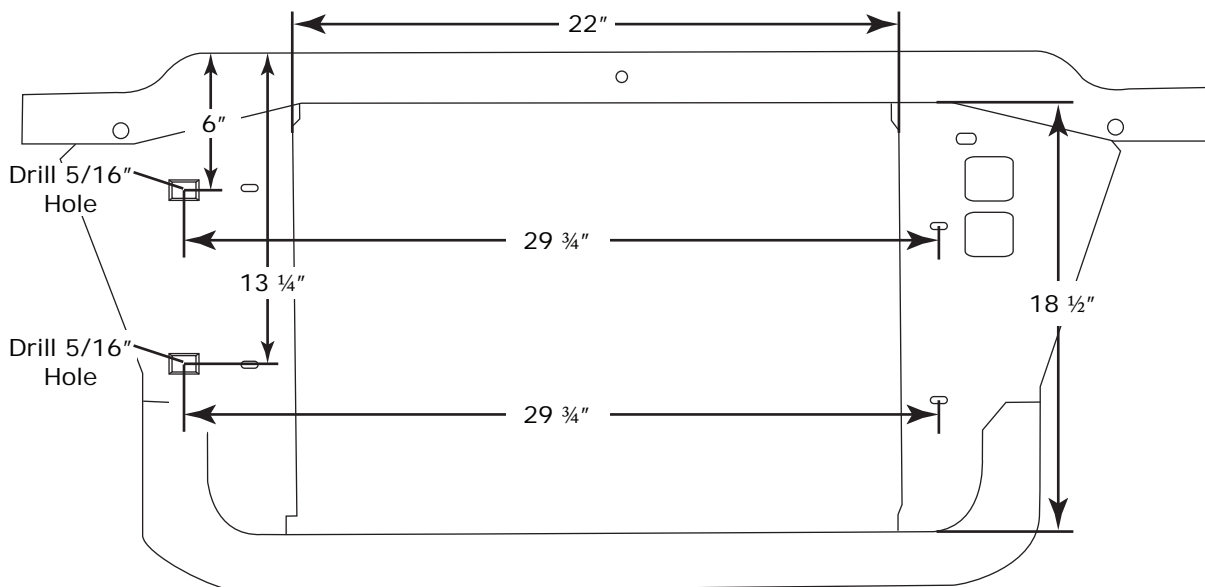
## Measurements: 1966-70 B-Body Core Support

*This kit was developed based on the measurements below, which were taken from a 1969 Dodge Charger core support.*



Front View

*This modification was developed based on the measurements below, which were taken from a 1969 Dodge Coronet without A/C, with 318 engine core support.*



Front View



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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 battery (retain).
3. Drain the radiator.
4. Remove the radiator mounting bolts (discard), and replace them with 1/4-20 x 1/2" hex bolts and 1/4" flat washers.

## Drier Installation

**NOTE:** Do not remove the caps from the drier. The drier contains a desiccant that will quickly absorb moisture from the air, causing it to lose effectiveness. For this reason, Vintage Air recommends that the drier remains capped until the installer is ready to evacuate the system.

1. Insert the drier into the clamp on the passenger side condenser bracket assembly, and secure it with a 1/4" flat washer and a 1/4-20 nut with star washer (See Photos 1, 2 and 3, below). **NOTE: Do not fully tighten nut at this time. Refrigerant flow through drier is IN from condenser, OUT to evaporator.**

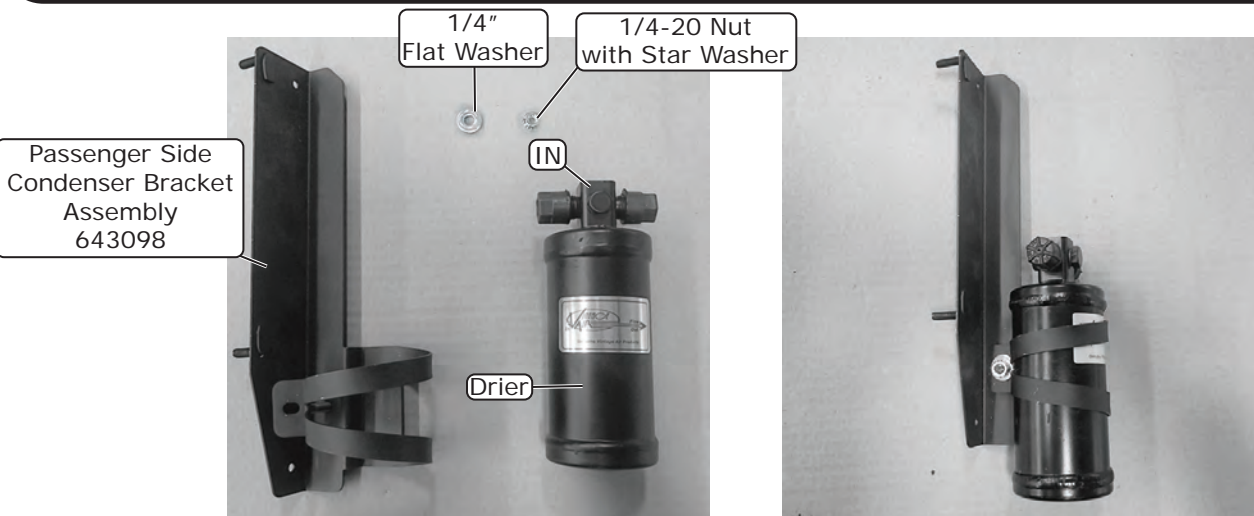


Photo 1

Photo 2

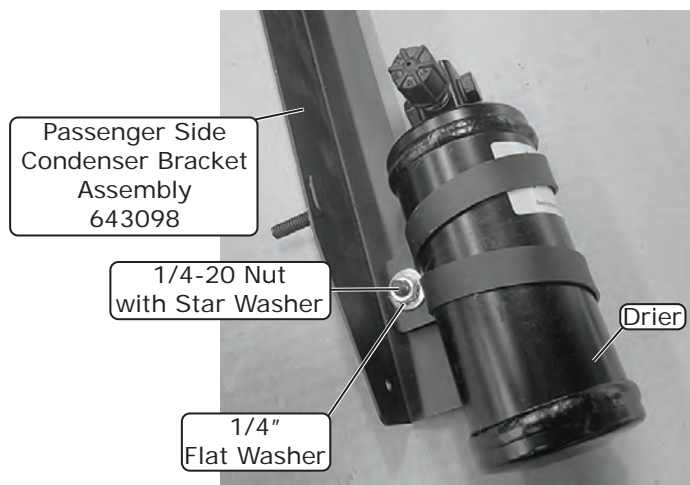


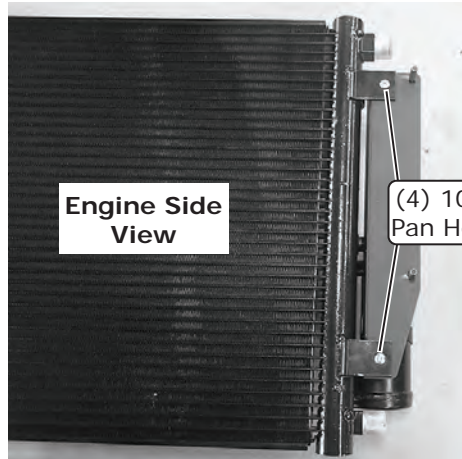
Photo 3



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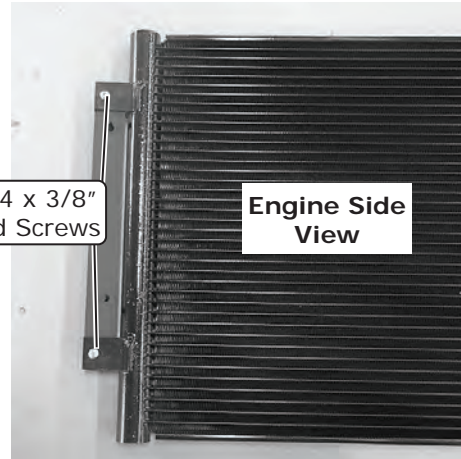
## Mounting Bracket Installation

1. Install the condenser mounting brackets onto the condenser using (4) 10-24 x 3/8" pan head screws and (4) 10-24 nuts with star washers as shown in Photos 1, 2, 3 and 4, below.



Engine Side View

(4) 10-24 x 3/8"  
Pan Head Screws



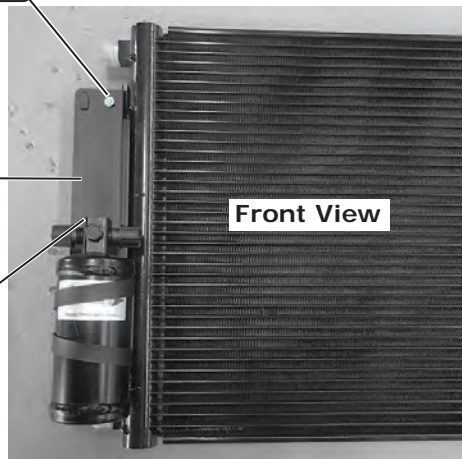
Engine Side View

Photo 1

Photo 2

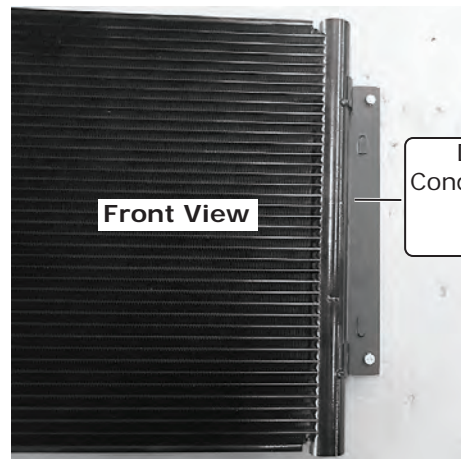
(4) 10-24 Nuts  
with Star Washers

Passenger Side  
Condenser Bracket  
Assembly  
643098



Front View

Photo 3



Front View

Driver Side  
Condenser Bracket  
Assembly  
643096

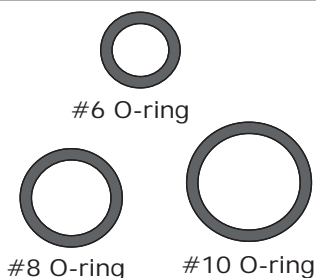
Photo 4



## Lubricating O-rings

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

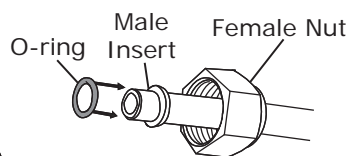
Figure 1



#6 O-ring

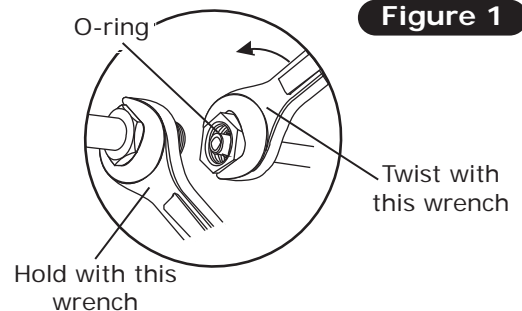
#8 O-ring

#10 O-ring



Refrigerant Oil  
for O-rings

O-ring installs  
over male insert  
to swaged lip



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.



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## #6 Drier/Condenser Hardline & Binary Switch Installation

1. Lubricate (2) #6 O-rings as shown in Figure 1, Page 6. Install the #6 drier/condenser hardline as shown in Photos 1 and 2, below. Tighten fittings as shown in Figure 1, Page 6. **NOTE: Orient the #6 drier/condenser hardline as shown in Photo 2, below. Reversing the hardline orientation will push the drier into the wrong position. Tighten the 1/4-20 nut with star washer securing the drier to the drier bracket at this time.**
2. Install binary switch onto the drier as shown in Photo 2, below. **NOTE: The binary switch and the drier each come with an O-ring. Only one of the (2) O-rings will be used.**

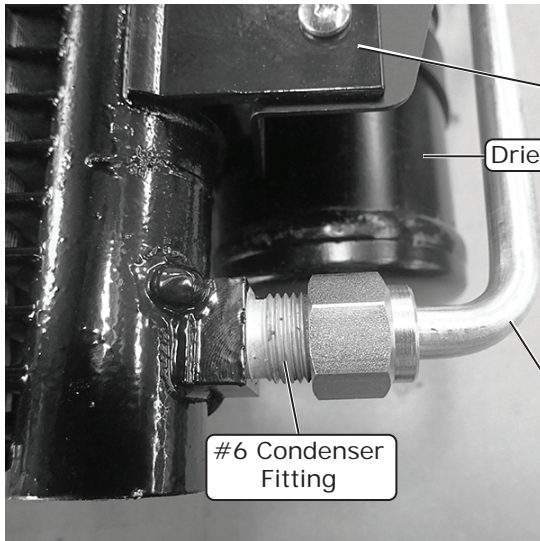


Photo 1

Passenger Side Condenser Bracket Assembly 643098

Drier

#6 Condenser Fitting

#6 Drier/Condenser Hardline 101000

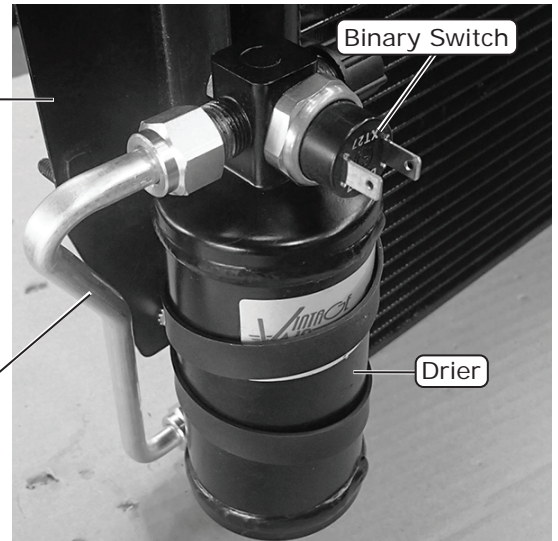


Photo 2

Binary Switch

Drier

## Nylon Spacer Installation

1. Install (4) 5/16" nylon spacers on the passenger and driver side condenser bracket weld studs as shown in Photos 1 and 2, below.

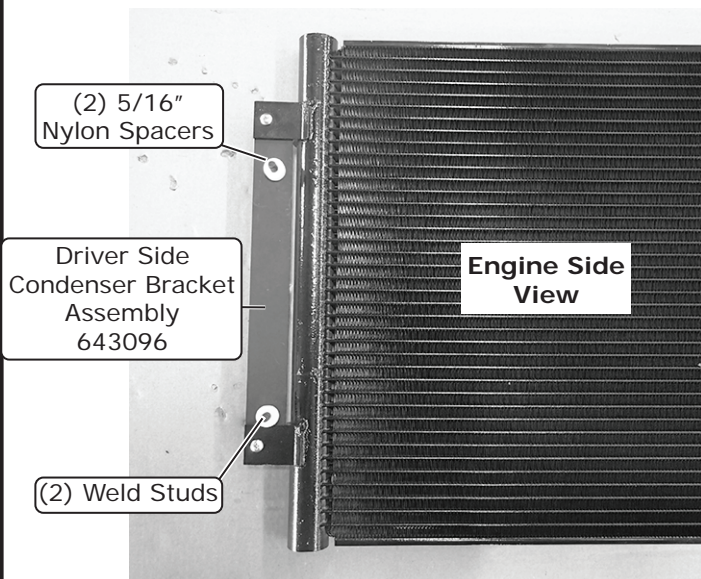


Photo 1

(2) 5/16" Nylon Spacers

Driver Side Condenser Bracket Assembly 643096

(2) Weld Studs

Engine Side View

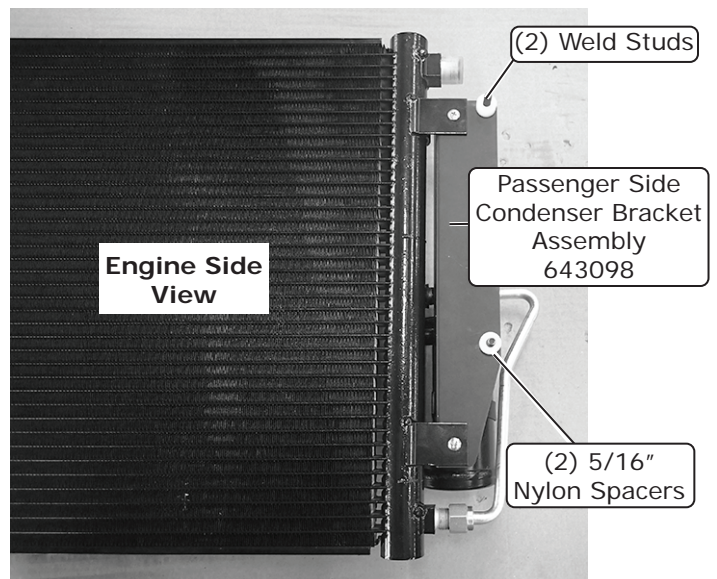


Photo 2

(2) Weld Studs

Passenger Side Condenser Bracket Assembly 643098

(2) 5/16" Nylon Spacers

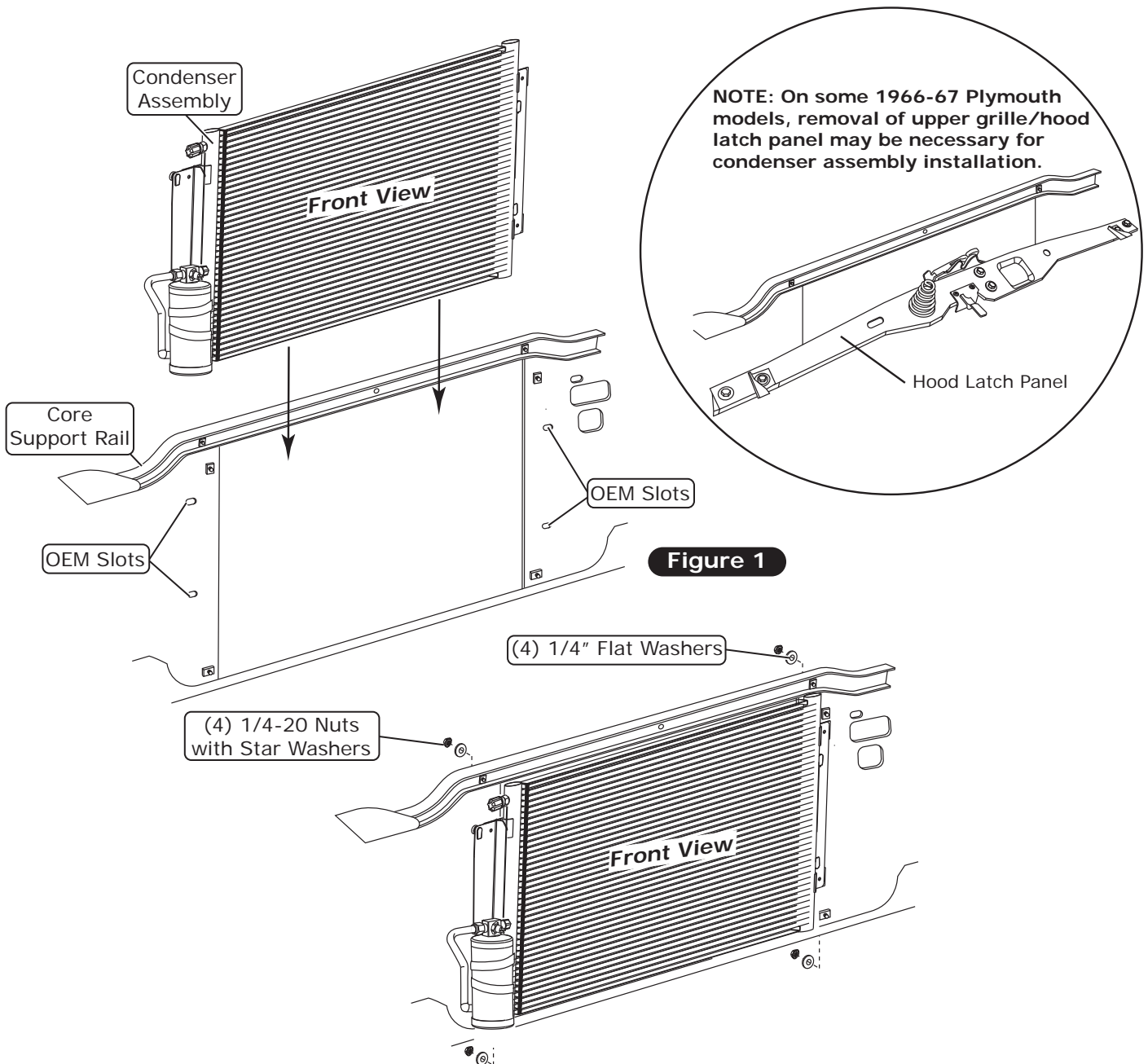
Engine Side View



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## Condenser Installation

1. Install the condenser assembly onto the front of the core support as shown in Figure 1, below.
2. Insert the (4) weld studs into the (4) OEM slots on the front of the core support, and secure the condenser using (4) 1/4-20 nuts with star washers and (4) 1/4" flat washers as shown in Figure 2, below. **NOTE: Big block core support is shown below. If vehicle has small block or 6-cylinder core support, either refer to dimensions on Page 4 to drill (2) 5/16" holes in core support, or do the following: Insert weld studs on driver side condenser bracket into OEM slots on core support. Align top edge of condenser assembly such that it's parallel with bottom edge of upper core support rail, and scribe the location of the passenger side condenser bracket weld studs onto the core support. Using these marks, drill (2) 5/16" holes in core support, and insert passenger side condenser bracket weld studs. Secure with (4) 1/4" hex nuts and (4) 1/4" flat washers.**







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## #6 and #8 Hardline Installation

1. Lubricate a #6 O-ring as shown in Figure 1, Page 6. Install the #6 drier/core hardline onto the drier as shown in Photo 1, below. Tighten the fitting as shown in Figure 1, Page 6.
2. Lubricate a #8 O-ring as shown in Figure 1, Page 6. Install the #8 condenser hardline onto the #8 condenser fitting as shown in Photo 2, below. Tighten the fitting as shown in Figure 1, Page 6.

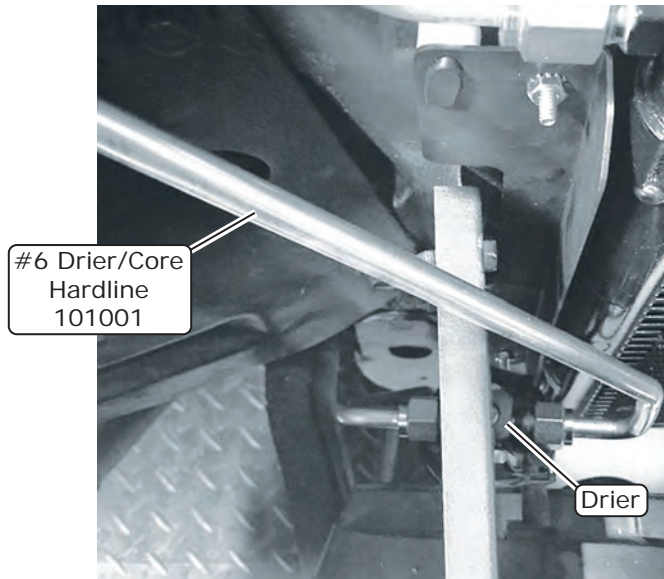


Photo 1

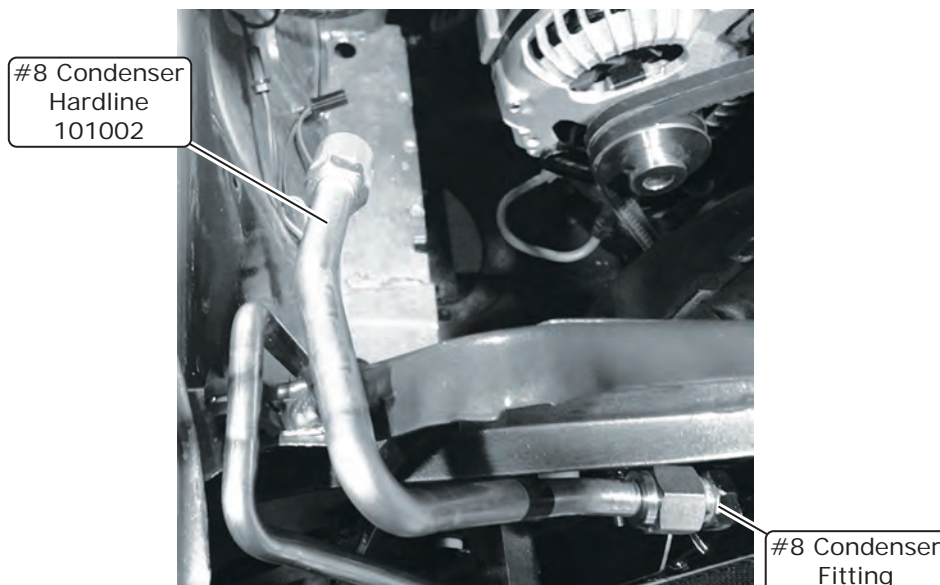


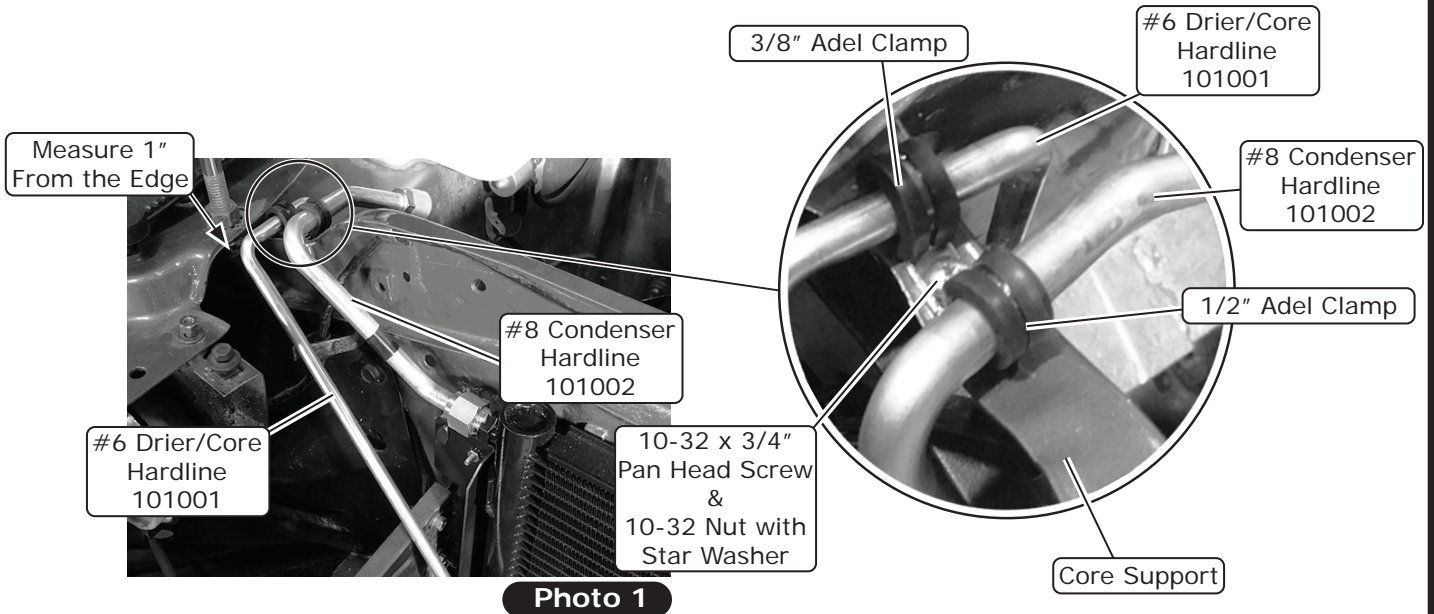
Photo 2



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## Securing Hardlines

1. Install a 3/8" Adel clamp onto the #6 drier/core hardline, and a 1/2" Adel clamp onto the #8 condenser hardline. Using the OEM hole on the top of the core support, install a 10-32 x 3/4" pan head screw and a 10-32 nut with star washer to secure the hardline as shown in Photo 1, below. **NOTE: Some core supports may not have the OEM hole. In this case, measure 1" from the edge (See Photo 1, below), and drill a 3/16" hole through the top of the core support.**



## Final Steps

1. Reinstall and/or reconnect all remaining items removed or disconnected in the Engine Compartment Disassembly instructions on Page 5. This concludes the condenser kit portion of your installation.





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# Packing List: (051066) Condenser Kit 1966-70 Mopar B-Body

## O-rings/Refrigerant Oil

	Qty		Part No	Description
	1	<input type="checkbox"/>	11079-VUS	Binary Switch, Male
	4	<input type="checkbox"/>	180392	Spacer, .625" OD x .312" ID x .312" L
	9	<input type="checkbox"/>	18125-VUB	Washer, 1/4" USS, Flat
	5	<input type="checkbox"/>	18152-VUB	Nut with Star Washer, 1/4-20
	4	<input type="checkbox"/>	18249-VUB	Screw, 10-24 x 3/8", Pan Head
	1	<input type="checkbox"/>	18251-VUB	Nut with Star Washer, 10-32
	1	<input type="checkbox"/>	18258-VUB	Screw, 10-32 x 3/4", Pan Head
	4	<input type="checkbox"/>	18260-VUB	Nut with Star Washer, 1/4-20
	4	<input type="checkbox"/>	18287-VUB	Bolt, 1/4-20 x 1/2", Hex
	1	<input type="checkbox"/>	23135-VUW	Compressor Lead
	1	<input type="checkbox"/>	31600-VUD	Adel Clamp, 3/8" ID
	1	<input type="checkbox"/>	31603-VUD	Adel Clamp, 1/2" ID

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"/>	643096	Bracket, Condenser, Driver-Side Assembly
	1	<input type="checkbox"/>	643098	Bracket, Condenser, PS Assembly

Packed By: \_\_\_\_\_

## Hardlines

	Qty		Part No	Description
	1	<input type="checkbox"/>	101000	Hardline, #6 Drier/Condenser
	1	<input type="checkbox"/>	101001	Hardline, #6 Drier/Core
	1	<input type="checkbox"/>	101002	Hardline, #8 Condenser

Packed By: \_\_\_\_\_

## Condenser/Drier

	Qty		Part No	Description
	1	<input type="checkbox"/>	037030-OVR	Condenser, 16" x 28" Parallel Flow
	1	<input type="checkbox"/>	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.**