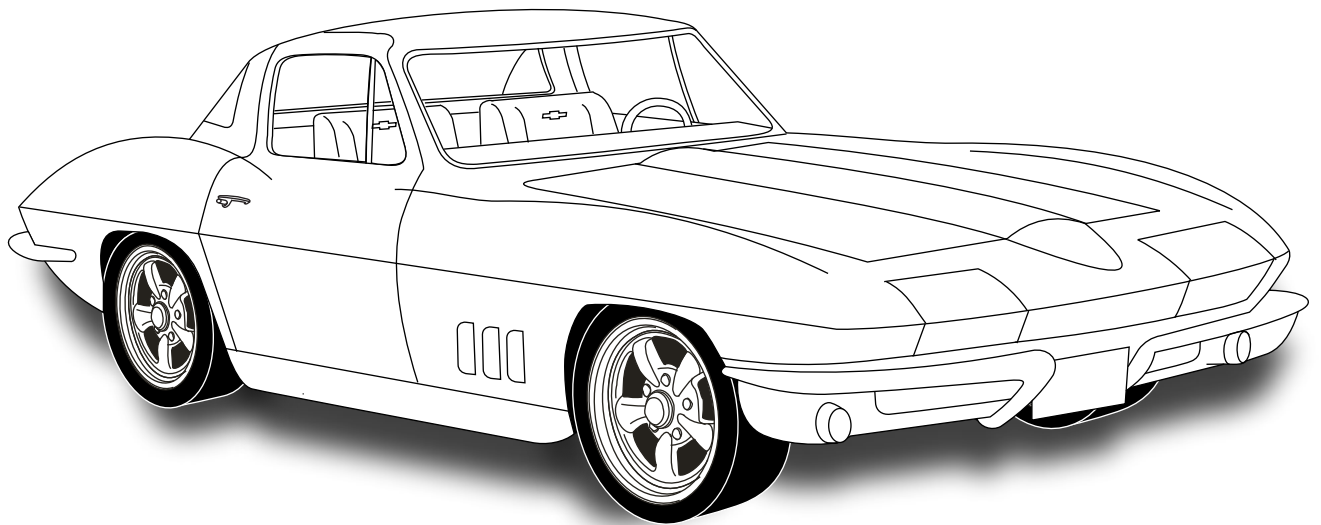




an ISO 9001:2015 Registered Company

# 1963-65 Chevrolet Corvette

Condenser Kit *with* Drier  
**(021163)**



18865 Goll St. San Antonio, TX 78266  
Phone: 800-862-6658  
Sales: [sales@vintageair.com](mailto:sales@vintageair.com)  
Tech Support: [tech@vintageair.com](mailto:tech@vintageair.com)  
[www.vintageair.com](http://www.vintageair.com)



[www.vintageair.com](http://www.vintageair.com)

# Table of Contents

Cover.....	1
Table of Contents.....	2
Packing List/Parts Disclaimer.....	3
Important Notice.....	4
Mounting Bracket Installation.....	5
Mounting Bracket and Drier Installation.....	6
Condenser and Hardline Installation.....	7
Lubricating O-rings, Hardline Clamp and Safety Switch Installation.....	8
Packing List.....	9

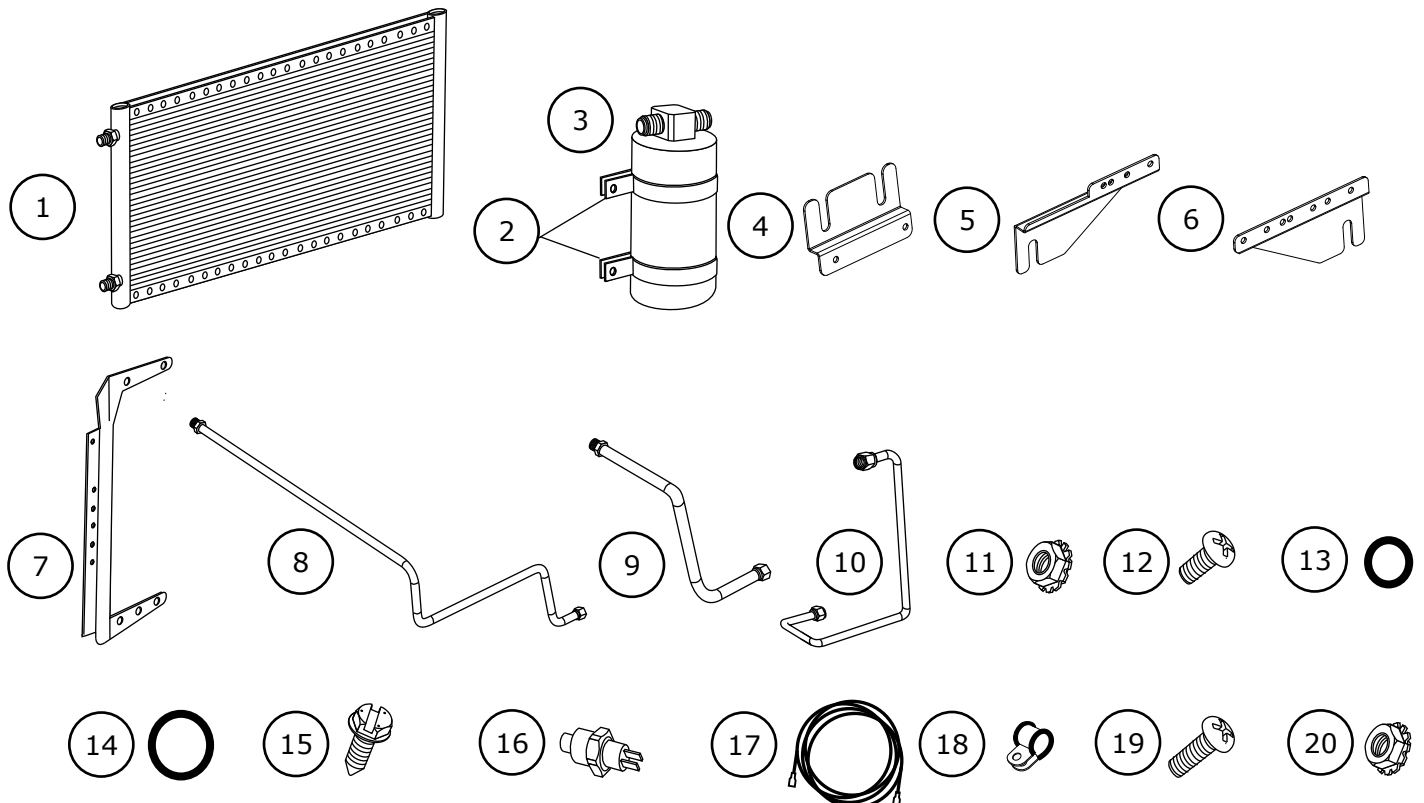


www.vintageair.com

## Packing List: Condenser Kit (021163)

No.	Qty.	Part No.	Description
1.	1	03766-VUC	Condenser, 14" x 22", Parallel Flow
2.	2	07113-VUB	Drier Clamp
3.	1	07321-VUC	Drier
4.	1	644037	Bracket, Condenser Top
5.	1	644038	Bracket, Condenser Passenger Side Bottom
6.	1	644039	Bracket, Condenser Driver Side Bottom
7.	1	644051	Bracket, Universal Drier
8.	1	091079	Hardline, #6 Drier/Core
9.	1	091080	Hardline, #8 Condenser
10.	1	35130-VCG	Hardline, Condenser/Drier
11.	8	18260-VUB	Nut with Star Washer, 10-24
12.	8	18249-VUB	Screw, 10-24 x 3/8", Pan Head
13.	3	33857-VUF	O-ring, #6
14.	1	33858-VUF	O-ring, #8
15.	2	18247-VUB	Screw, #10 x 1/2", Sheet Metal
16.	1	11079-VUS	Binary Switch, Male
17.	1	23135-VUW	Compressor Lead
18.	1	31600-VUD	Adel Clamp, #2
19.	1	18250-VUB	Screw, 10-32 x 1/2", Pan Head
20.	1	18251-VUB	Nut with Star Washer, 10-32

**\*\* 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.**



**NOTE: Images may not depict actual parts and quantities. Refer to packing list for actual parts and quantities.**



www.vintageair.com

## 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 remained 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.



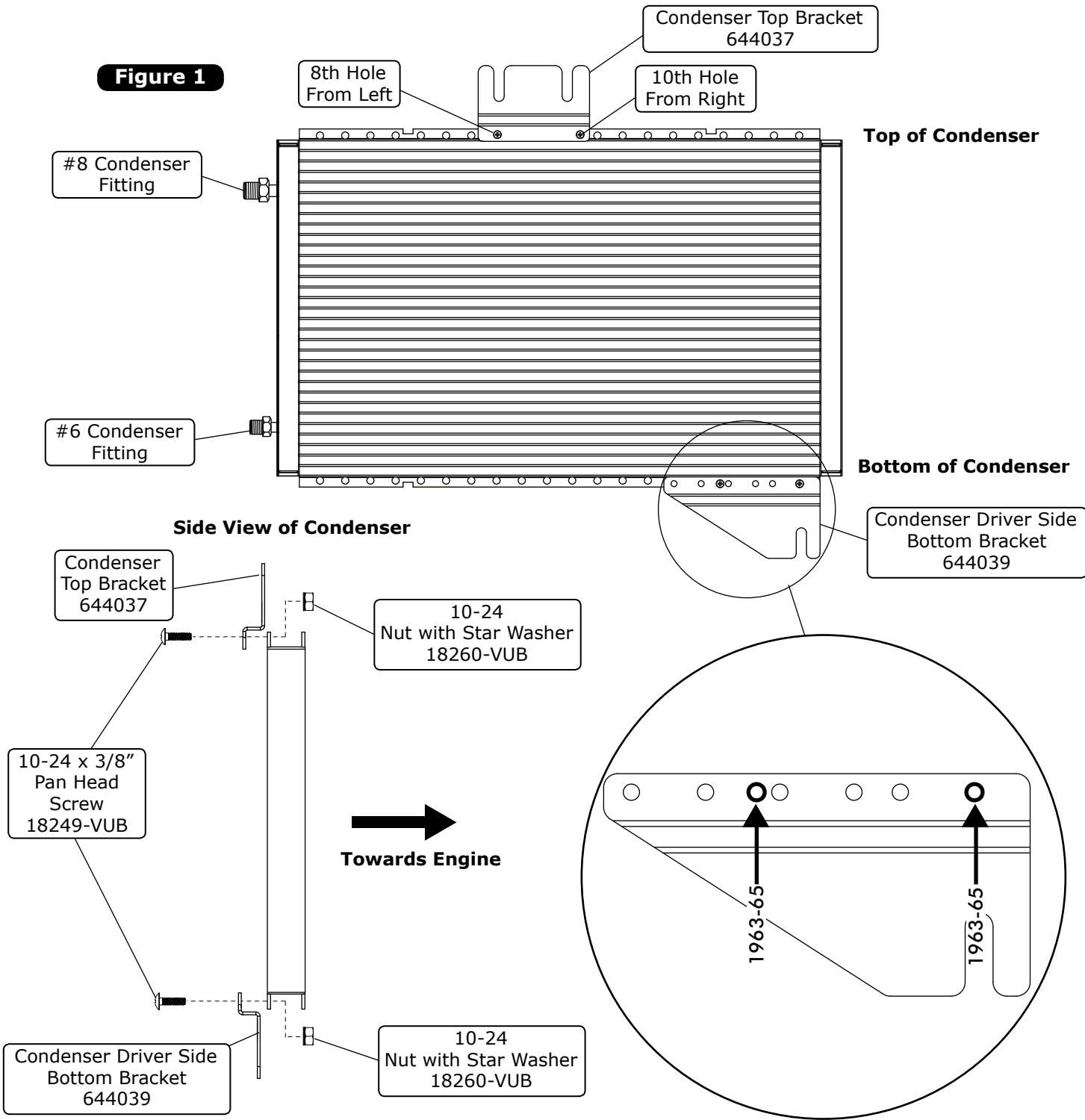
www.vintageair.com

# Mounting Bracket Installation

**NOTE: Mark the hinge location on the hood, then remove the hood. Remove the hood prop.**

**1.** Install the 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 Figure 1, below.

**Figure 1**

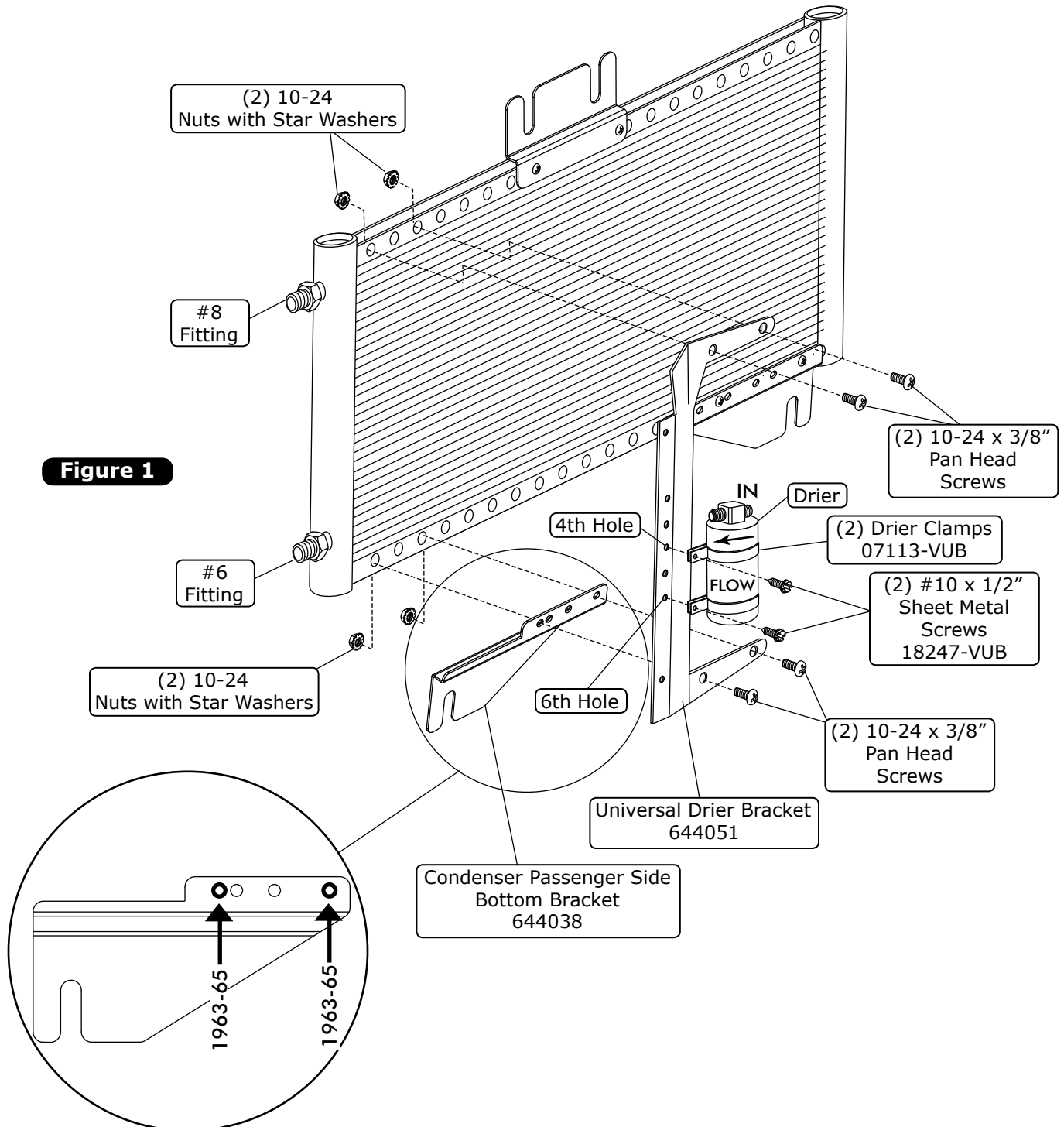




www.vintageair.com

## Mounting Bracket and Drier Installation

1. Install the 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 Figure 1, below. **NOTE: The brackets mount through the 1st and 3rd holes in the condenser.**
2. Install the drier clamps onto the drier as shown in Figure 1, below.
3. Using (2) #10 x 1/2" sheet metal screws, install the drier onto the bracket in the 4th and 6th holes from the top (See Figure 1, below). **NOTE: Refrigerant flow through drier is in from the condenser, out to the evaporator.**

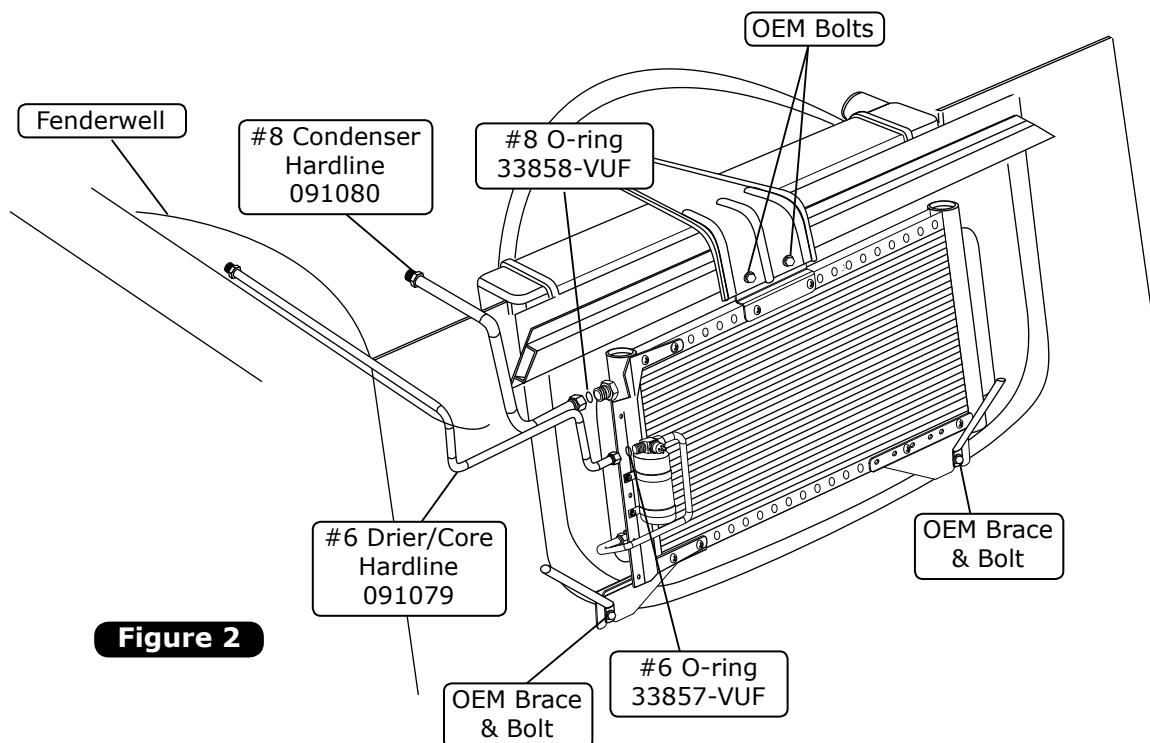
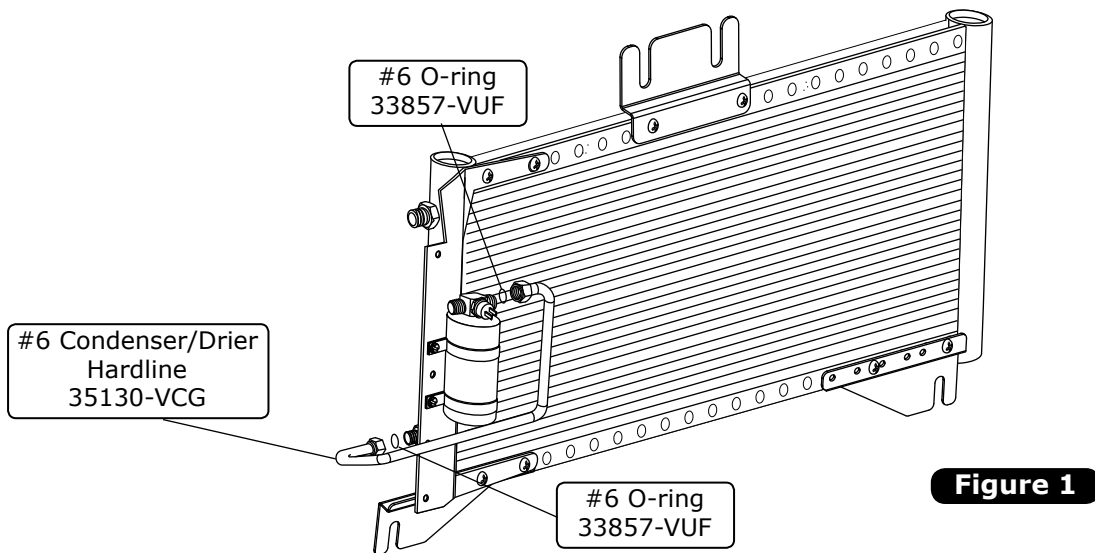




www.vintageair.com

## Condenser and Hardline Installation

1. Lubricate (2) #6 O-rings (See Lubricating O-rings, Page 8, and Figure 1, below), and install the #6 condenser/drier hardline as shown in Figure 1, below.
2. Install the condenser in front of the core support using the OEM bolts as shown in Figure 2, below.
3. Lubricate a #6 O-ring (See Lubricating O-rings, Page 8), and install the #6 drier/core hardline as shown in Figure 2, below. Lubricate a #8 O-ring (See Lubricating O-rings, Page 8), and install the #8 condenser hardline as shown in Figure 2, below.

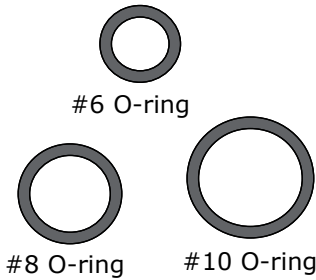




www.vintageair.com

## Lubricating O-rings

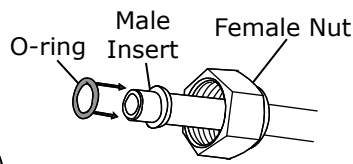
**For a proper seal of fittings: Install supplied O-rings as shown, and lubricate with supplied oil.**



#6 O-ring

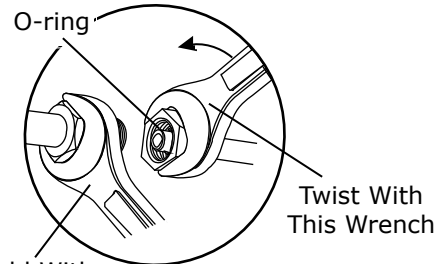
#8 O-ring

#10 O-ring



Supplied Oil for O-rings

O-ring Installs Over Male Insert to Swaged Lip



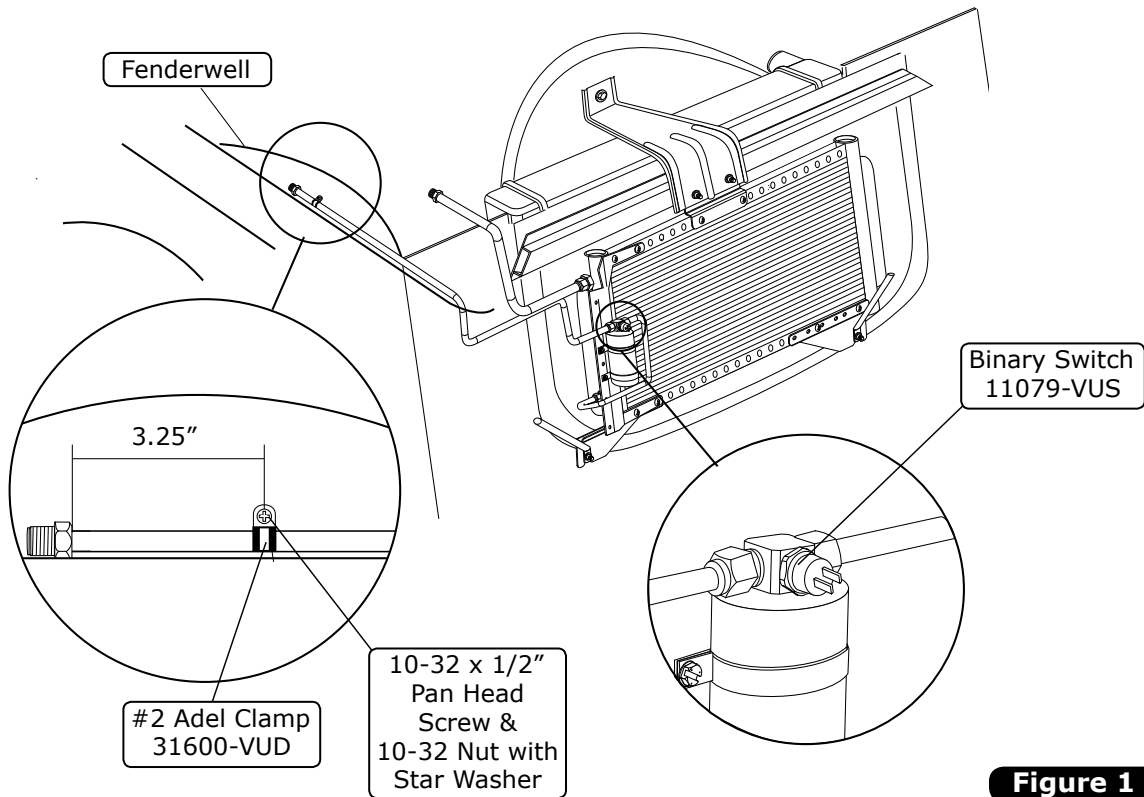
Twist With This Wrench

Hold 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.

## Hardline Clamp and Safety Switch Installation

1. Secure the #6 drier/core hardline to the inner fender using a #2 adel clamp, 10-32 x 1/2" pan head screw and a 10-32 nut with star washer as shown in Figure 1, below.
2. Install the safety switch as shown in Figure 1, below.
3. Install the hood and hood prop.



**Figure 1**





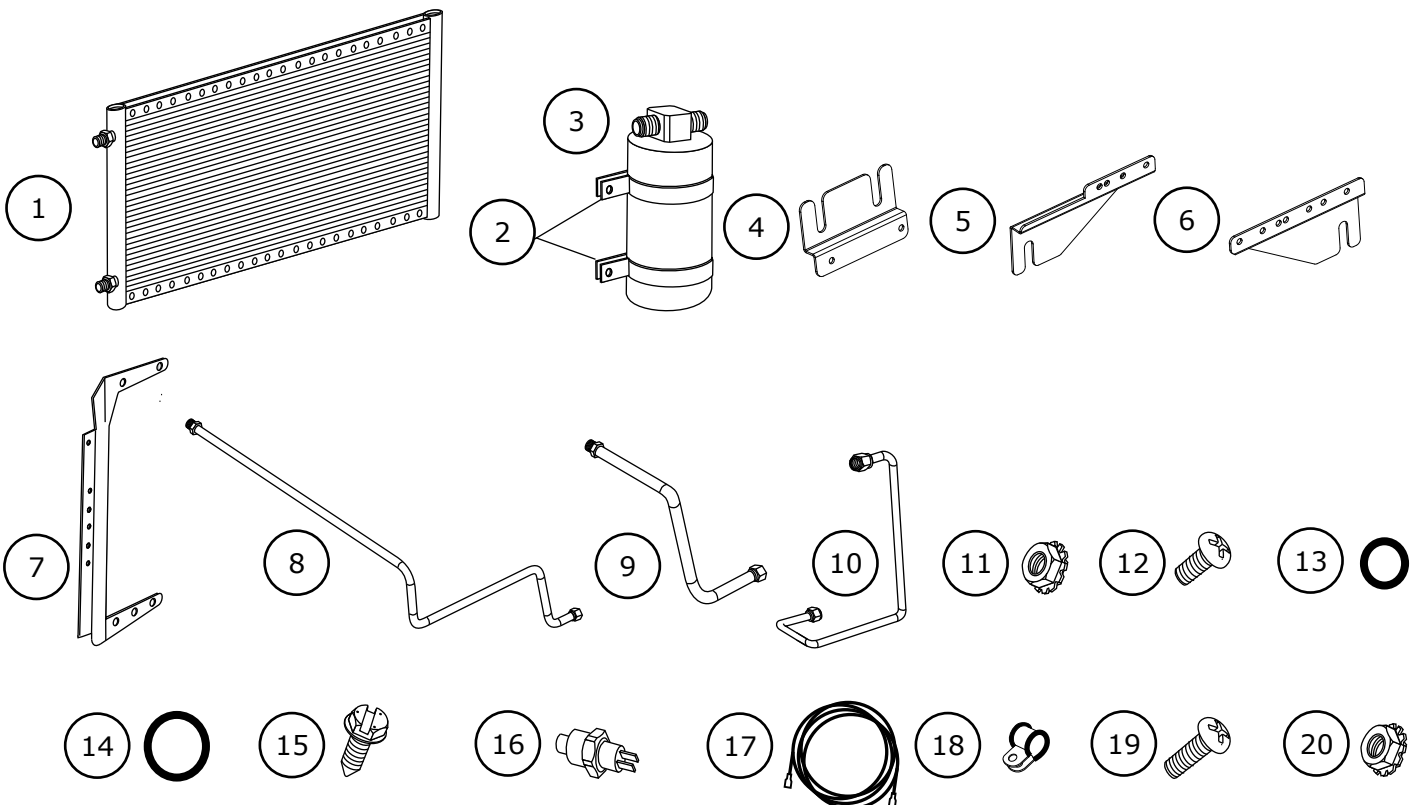


www.vintageair.com

# Packing List: Condenser Kit (021163)

No.	Qty.	Part No.	Description
1.	1	03766-VUC	Condenser, 14" x 22", Parallel Flow
2.	2	07113-VUB	Drier Clamp
3.	1	07321-VUC	Drier
4.	1	644037	Bracket, Condenser Top
5.	1	644038	Bracket, Condenser Passenger Side Bottom
6.	1	644039	Bracket, Condenser Driver Side Bottom
7.	1	644051	Bracket, Universal Drier
8.	1	091079	Hardline, #6 Drier/Core
9.	1	091080	Hardline, #8 Condenser
10.	1	35130-VCG	Hardline, Condenser/Drier
11.	8	18260-VUB	Nut with Star Washer, 10-24
12.	8	18249-VUB	Screw, 10-24 x 3/8", Pan Head
13.	3	33857-VUF	O-ring, #6
14.	1	33858-VUF	O-ring, #8
15.	2	18247-VUB	Screw, #10 x 1/2", Sheet Metal
16.	1	11079-VUS	Binary Switch, Male
17.	1	23135-VUW	Compressor Lead
18.	1	31600-VUD	Adel Clamp, #2
19.	1	18250-VUB	Screw, 10-32 x 1/2", Pan Head
20.	1	18251-VUB	Nut with Star Washer, 10-32

Checked By: \_\_\_\_\_  
 Packed By: \_\_\_\_\_  
 Date: \_\_\_\_\_



**NOTE: Images may not depict actual parts and quantities.  
 Refer to packing list for actual parts and quantities.**