

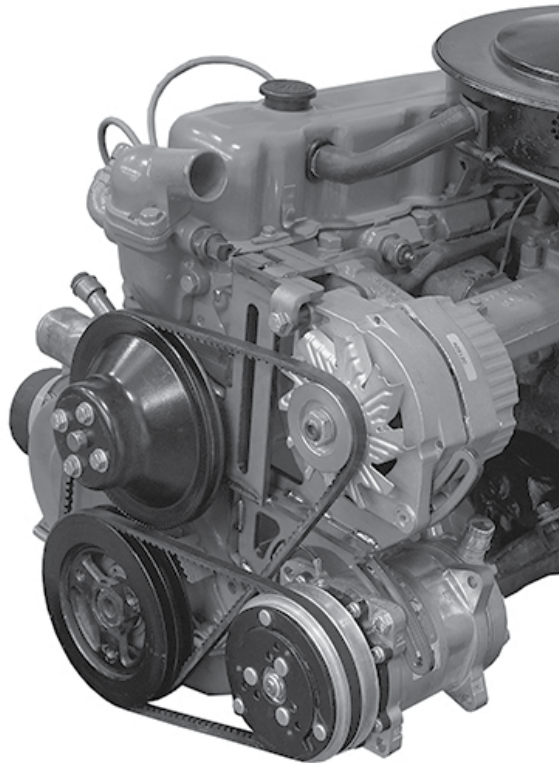


an ISO 9001:2015 Registered Company

230/250

1963-84 Chevrolet

Compressor/Alternator Bracket Kit
(146037)



18865 Goll St. San Antonio, TX 78266
Phone: 800-862-6658
Sales: sales@vintageair.com
Tech Support: tech@vintageair.com
www.vintageair.com



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Additional Info: Please Read Before Beginning

This bracket kit is not compatible with power steering.

This bracket was designed using a double groove crankshaft pulley and a single groove water pump pulley.

This installation utilized a Gates belt #7450 for the alternator, water pump and single or double groove crankshaft pulleys.

A Gates belt #7280 was utilized for the alternator, compressor pulleys on the single groove crankshaft setup and a Gates belt #7365 for the compressor, crankshaft pulleys on the double groove setup.

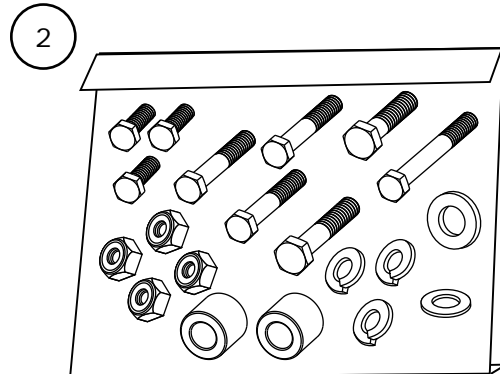
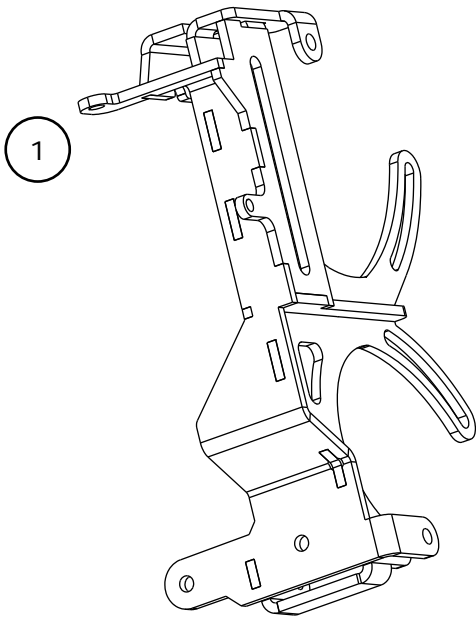


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Packing List: Bracket Kit (146037)

No.	Qty.	Part No.	Description
1.	1	146043	Bracket, 1963-84 GM 6-Cylinder
2.	1	191036	Hardware Kit

**** 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.



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NOTE: Before tightening bolts, assemble all brackets loosely to engine. This will ensure proper alignment of all brackets.

Compressor/Alternator Bracket Installation

1. Remove the fan and water pump pulley by removing (4) bolts.
2. Remove the water pump mounting bolt as shown in Photo 1, below.
3. Secure the bracket to the engine block using (2) 3/8-16 x 3/4" hex bolts and (2) 3/8" lock washers (See Photo 2, below).
4. Secure the bracket to the cylinder head using a 3/8-16 x 3/4" hex bolt and a 3/8" lock washer (See Photo 3, below).
5. Install a .125" length spacer between the bracket and the water pump, then install a 5/16-18 x 1" hex bolt (See Photo 4, below).

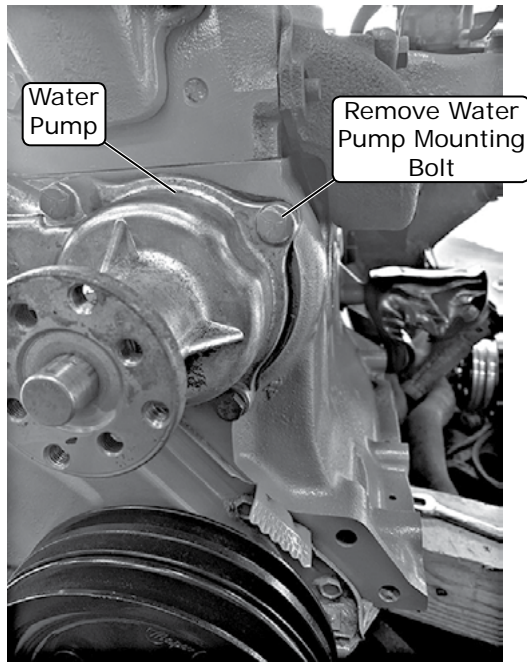


Photo 1

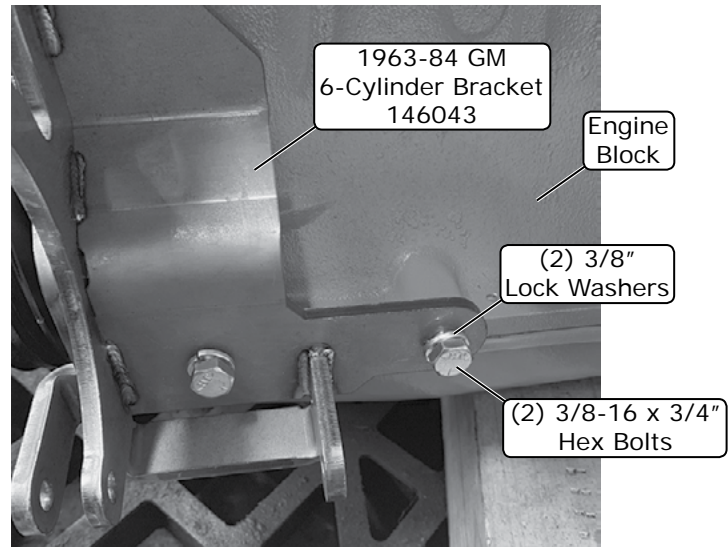


Photo 2

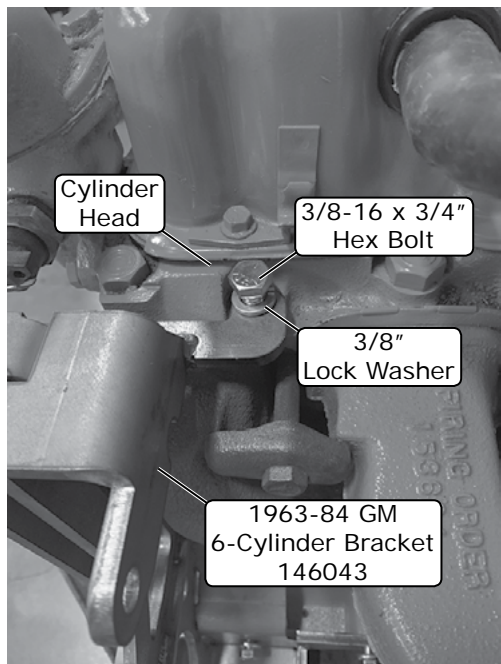


Photo 3

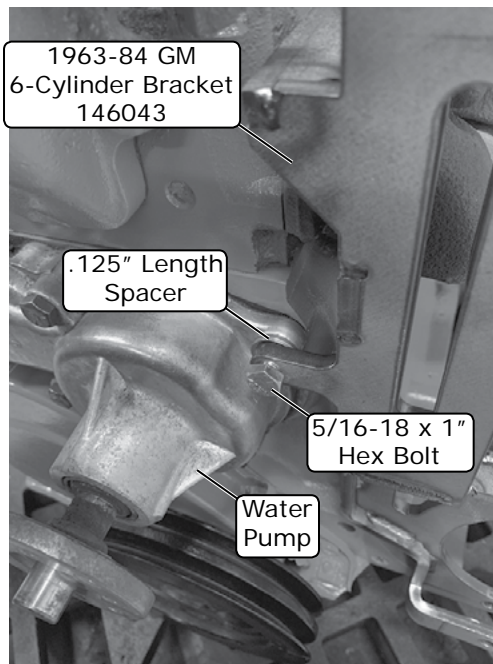
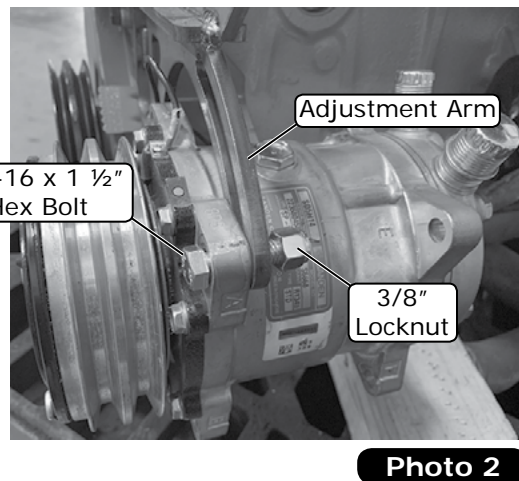
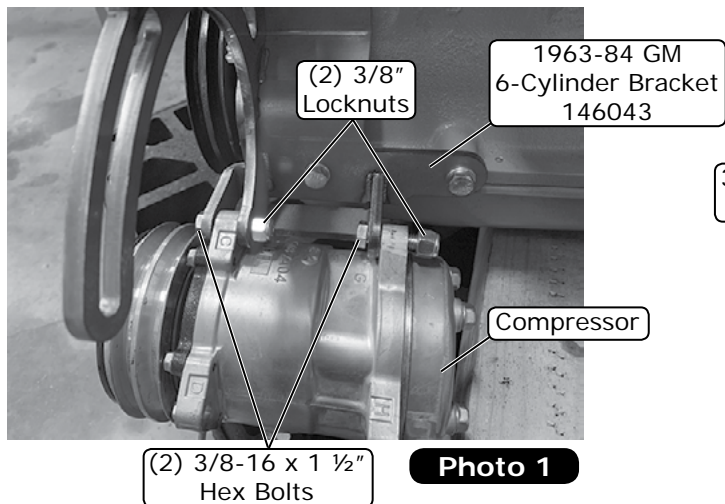


Photo 4

Compressor Installation (Vehicle with Double-Groove Crankshaft Pulley)

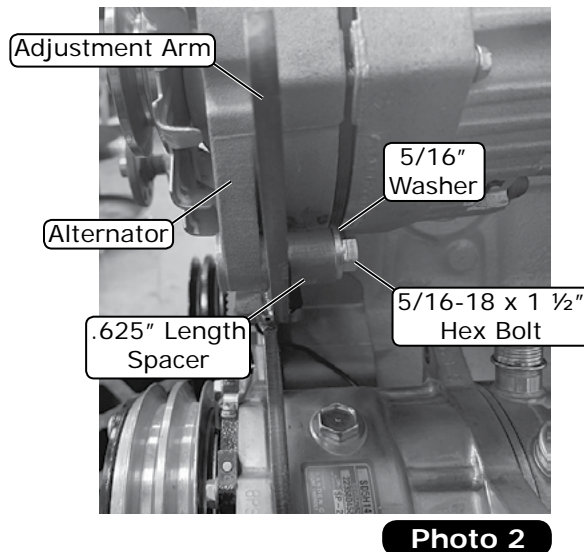
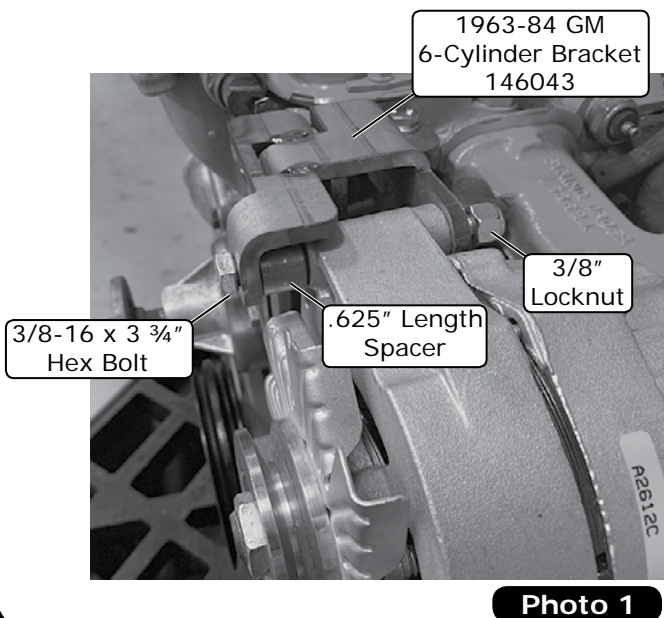
NOTE: If vehicle has a single groove crankshaft pulley, proceed to Page 7 to continue with the installation.

1. Install the compressor onto the bracket using (2) 3/8-16 x 1 1/2" hex bolts and (2) 3/8" locknuts (See Photo 1, below). **NOTE:** Install the hardware through the compressor mounting ears marked "C" and "G".
2. Secure the compressor to the adjustment arm using a 3/8-16 x 1 1/2" hex bolt and a 3/8" locknut (See Photo 2, below). **NOTE:** Install the hardware through the compressor mounting ear marked "A".



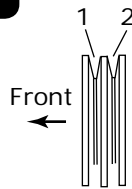
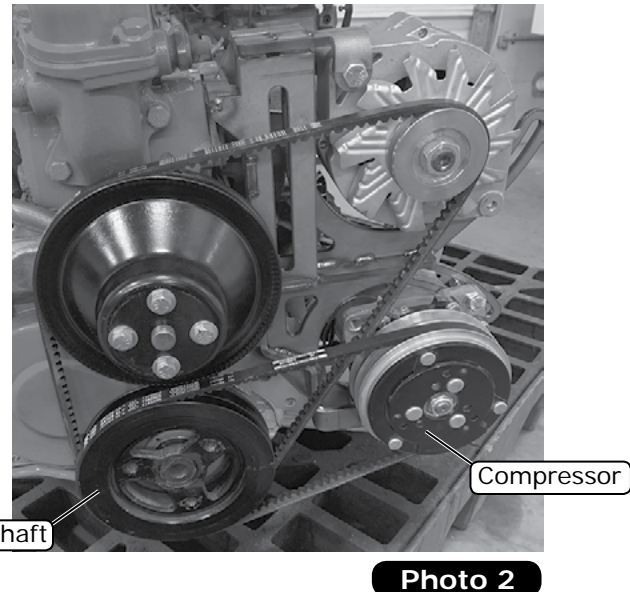
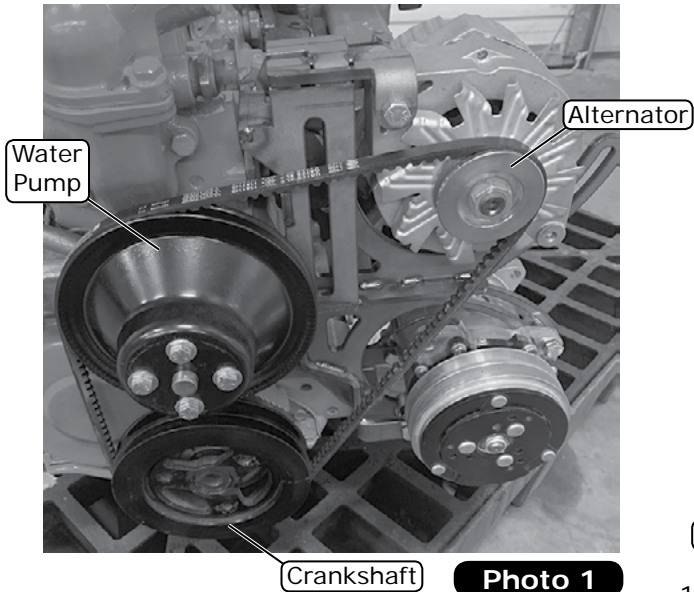
Alternator Installation (Vehicle with Double-Groove Crankshaft Pulley)

1. Install the alternator into the top mount of the bracket using a 3/8-16 x 3 3/4" hex bolt, a .625" length spacer and a 3/8" locknut (See Photo 1, below).
2. Secure the alternator to the adjustment arm using a 5/16-18 x 1 1/2" hex bolt, a 5/16" washer and a .625" length spacer (See Photo 2, below).
3. Reinstall the water pump pulley and fan using the OEM mounting bolts.



Belt Routing (Vehicle with Double-Groove Crankshaft Pulley)

1. Route belt as shown in Photos 1 & 2, below. **NOTE: Vintage Air recommends using only Dayco, Gates or Goodyear brand reinforced V-belts with this compressor/alternator bracket kit. Belt lengths of 45 5/8" and 37 1/8" are recommended. However, belt lengths may vary depending on the accessories present and the diameter of the water pump, crankshaft, alternator and power steering pulleys.**



Crankshaft Pulley Grooves:

1. Crankshaft & Compressor (Front Groove)
2. Crankshaft, Water Pump & Alternator

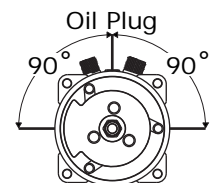
Compressor Warnings

NOTE: Failure to follow these procedures may void all warranties.

1. With compressor kit installed, and belt tightened, check angle of oil plug on compressor. As shown below, oil plug must not exceed 90° beyond vertical centerline.
2. Do not connect compressor clutch wire until system is being charged with refrigerant. Running compressor without refrigerant charge may result in compressor failure.

IMPORTANT NOTICE:

- Do not connect compressor clutch wire until system is being charged with refrigerant. Since an A/C system relies on refrigerant to circulate lubricant, running the compressor without refrigerant may destroy the compressor and void the warranty.
- Proper compressor orientation is important. Sanden compressors may be rotated from vertical (oil fill plug at top) up to 90° in either direction (See illustration).



Compressor Installation (Vehicle with Single-Groove Crankshaft Pulley)

1. Install the compressor onto the bracket using (2) 3/8-16 x 1 1/2" hex bolts and (2) 3/8" locknuts (See Photo 1, below). **NOTE: Install the hardware through the compressor mounting ears marked "C" and "G".**
2. Secure the compressor to the adjustment arm using a 3/8-16 x 1 1/2" hex bolt and a 3/8" locknut (See Photo 2, below). **NOTE: Install the hardware through the compressor mounting ear marked "A".**

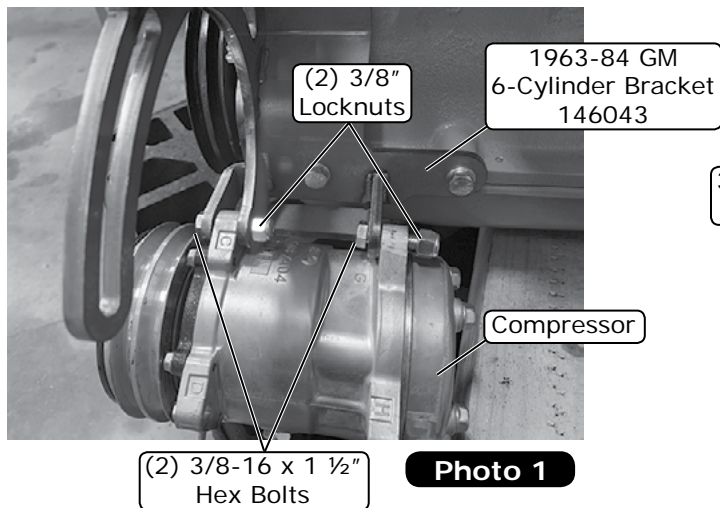


Photo 1

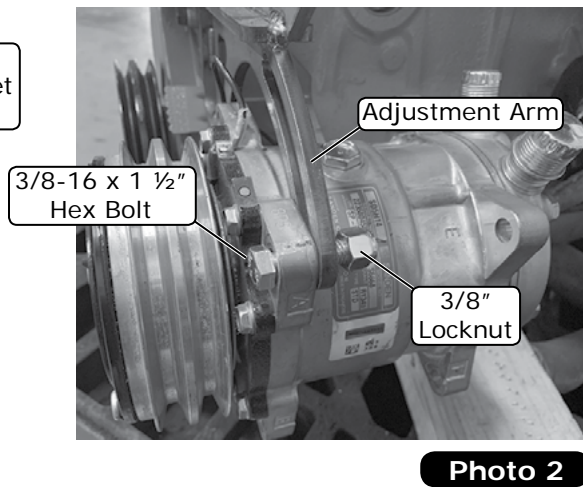


Photo 2

Alternator Installation (Vehicle with Single-Groove Crankshaft Pulley)

1. Install the alternator into the top mount of the bracket using a 3/8-16 x 3 3/4" hex bolt, a .625" length spacer and a 3/8" locknut (See Photo 1, below).
2. Secure the alternator to the adjustment arm using a 5/16-18 x 1 1/2" hex bolt, a 5/16" washer and a .625" length spacer (See Photo 2, below).
3. Reinstall the water pump pulley and fan using the OEM mounting bolts.

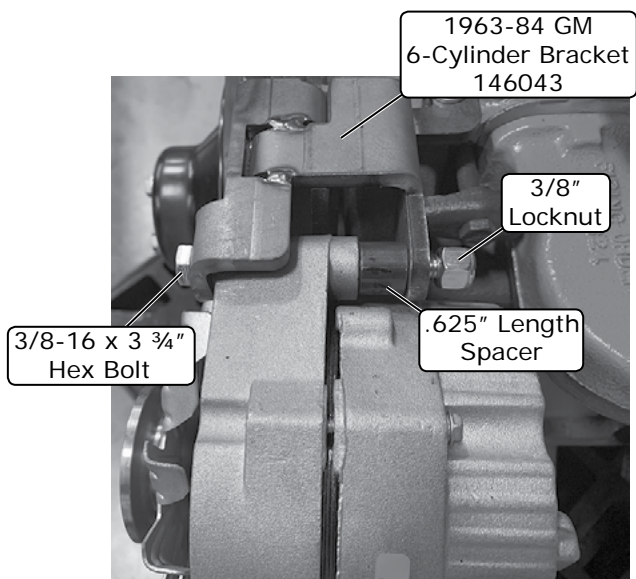


Photo 1

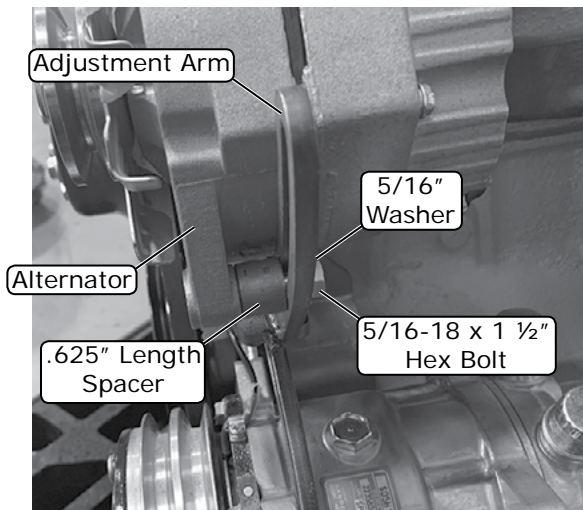
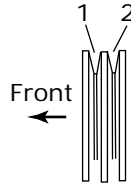
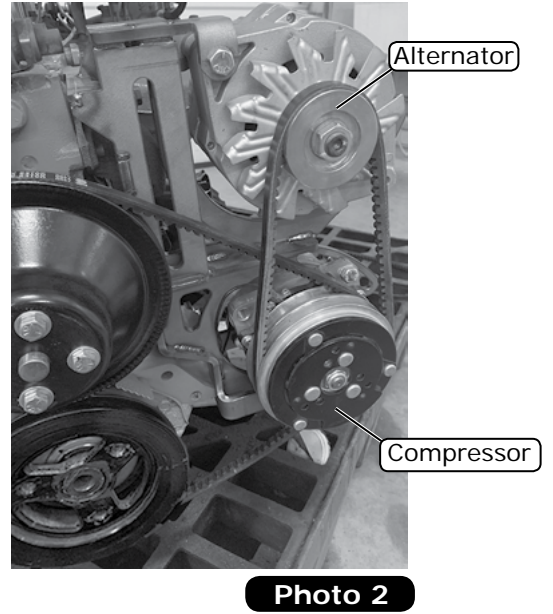
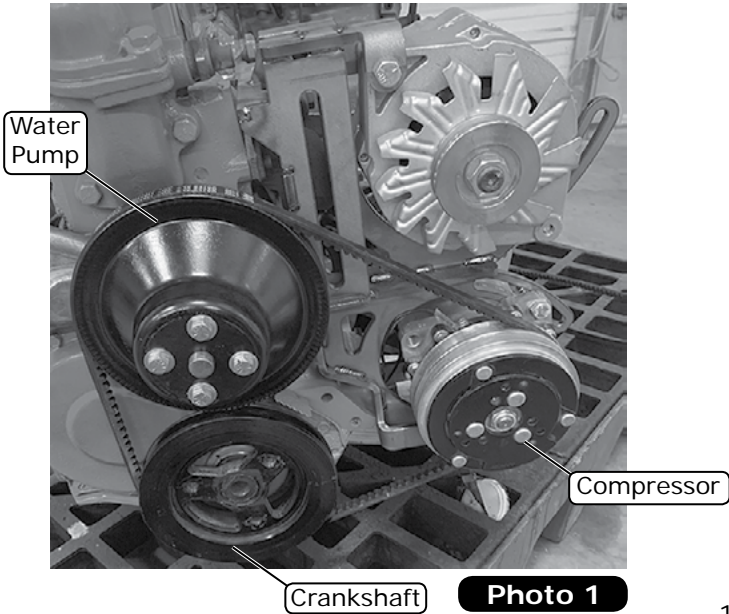


Photo 2

Belt Routing (Vehicle with Single-Groove Crankshaft Pulley)

1. Route belt as shown in Photos 1 & 2, below. **NOTE: Vintage Air recommends using only Dayco, Gates or Goodyear brand reinforced V-belts with this compressor/alternator bracket kit. Belt lengths of 45 5/8" and 26 5/8" are recommended. However, belt lengths may vary depending on the accessories present and the diameter of the water pump, crankshaft, alternator and power steering pulleys.**



Compressor Pulley Grooves:
 1. Alternator & Compressor (Front Groove)
 2. Crankshaft, Water Pump & Compressor

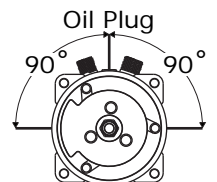
Compressor Warnings

NOTE: Failure to follow these procedures may void all warranties.

1. With compressor kit installed, and belt tightened, check angle of oil plug on compressor. As shown below, oil plug must not exceed 90° beyond vertical centerline.
2. Do not connect compressor clutch wire until system is being charged with refrigerant. Running compressor without refrigerant charge may result in compressor failure.

IMPORTANT NOTICE:

- Do not connect compressor clutch wire until system is being charged with refrigerant. Since an A/C system relies on refrigerant to circulate lubricant, running the compressor without refrigerant may destroy the compressor and void the warranty.
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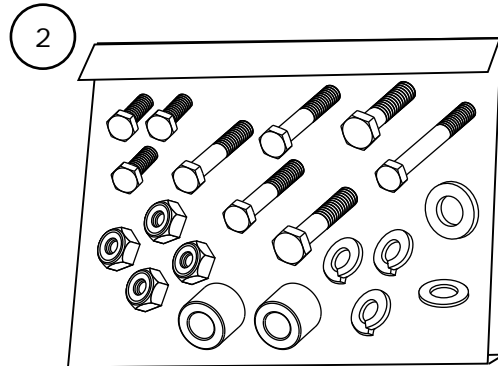
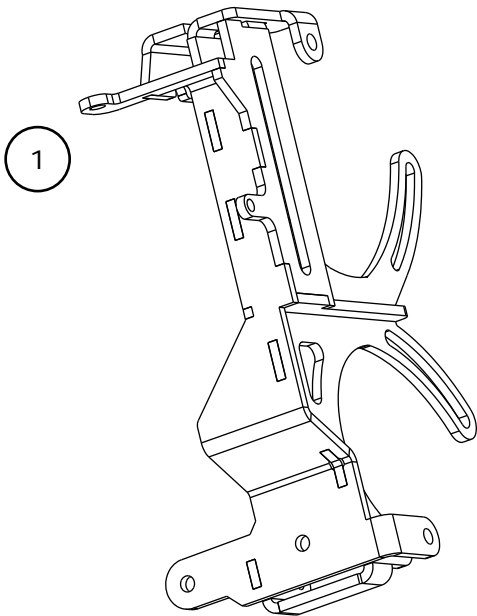


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No.	Qty.	Part No.	Description
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2.	1	191036	Hardware Kit

Checked By: _____
 Packed By: _____
 Date: _____



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 Refer to packing list for actual parts and quantities.**