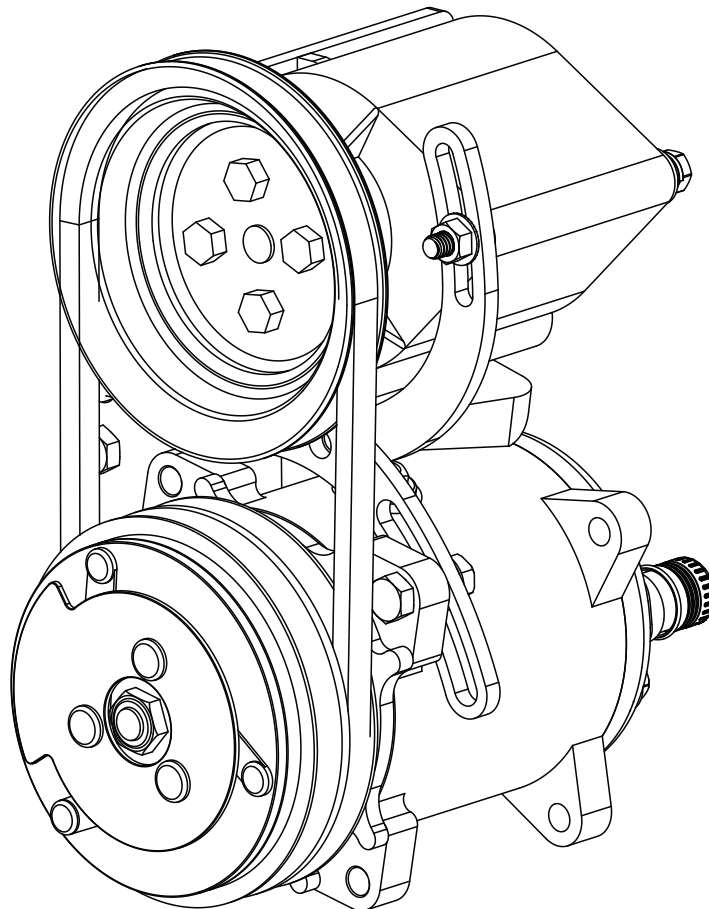




Datsun Z

Smog Pump Add-On Bracket Kit (158140)



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Additional Info: Please Read Before Beginning

- This kit is designed to work in conjunction with and requires Compressor Bracket Kit (158130).
- Instructions are intended for Datsun / Nissan L-series engines L20 to L28.
- This kit requires a 2-groove balancer. See Belt Rounting Diagram, Page 11 for more information.
- This kit is designed to use a Sanden 508 style rear-exit compressor, such as, Vintage Air PN# 047000-SUR.
- Belt sizes may vary based on pulley diameters. Vintage Air used (1) Gates XL9341 and (1) Gates XL7280.

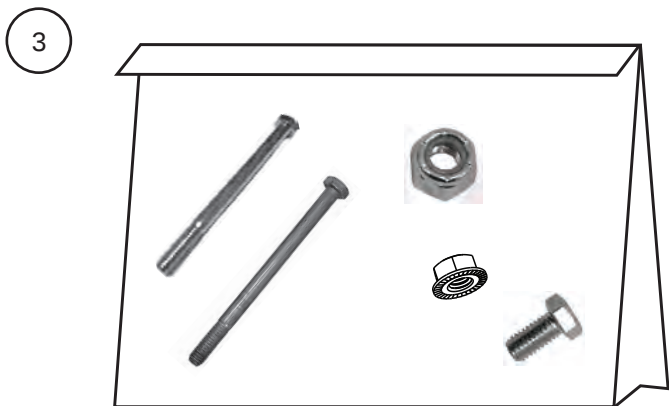
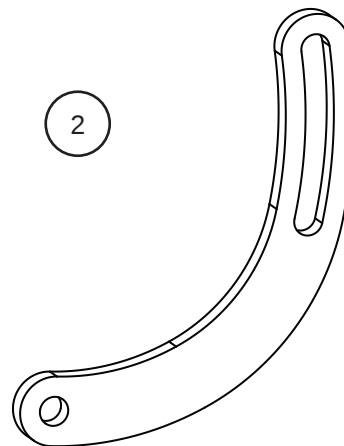
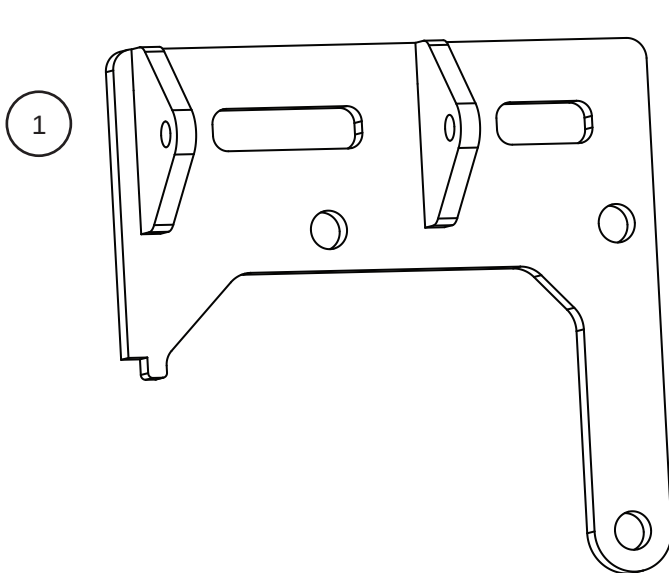


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Packing List: Bracket Kit (158140)

No.	Qty.	Part No.	Description
1.	1	158141	Bracket Assembly
2.	1	158144	Bracket, Arm
3.	1	191147	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.**

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

Engine Disassembly

NOTE: If your engine is not equipped with OEM A/C or Smog/air pump, ignore steps that do not pertain to your engine configuration.

1. Disconnect the battery.
2. Evacuate the OEM A/C system.
3. Loosen tension on the A/C and Smog pump brackets (See Photos 1 and 2, below). Remove the belts.
4. Disconnect the hoses from the Smog pump.
5. Remove (2) nuts and (2) bolts from the Smog pump (See Photo 2, below), then remove from the bracket.
6. Disconnect the A/C hoses from the compressor.
7. Remove (2) bolts on the bottom-side of the compressor (See Photo 3, below).
8. Remove (2) upper bolts from the compressor to the bracket (See Photo 4, below).
9. Remove the compressor from the bracket.
10. Remove (4) bolts (See Photo 5, below), then remove the compressor bracket from the engine block.



Loosen
tension

Remove (2) nuts
and (2) bolts from
Smog pump, then
remove from bracket

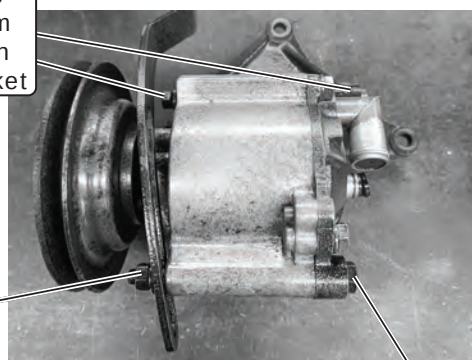
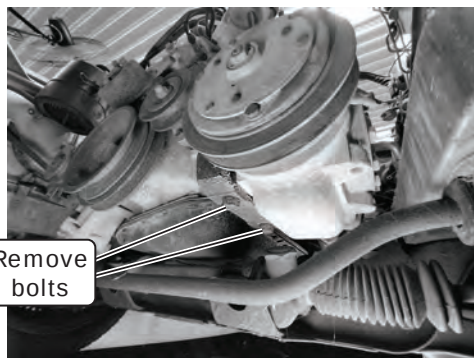


Photo 2

Remove

Loosen to
remove belt,
then remove bolt



Remove
bolts

Photo 3

Remove
upper bolts

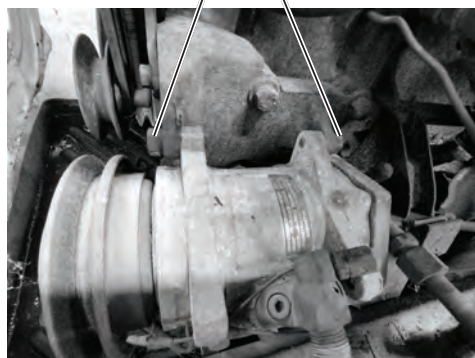


Photo 4

Remove
(4) bolts

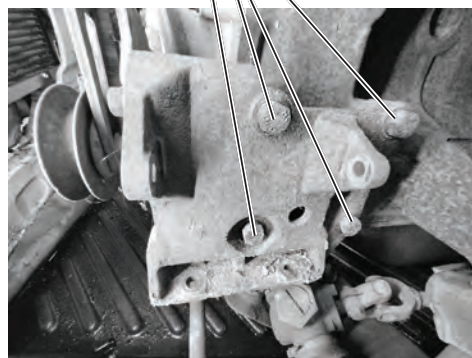
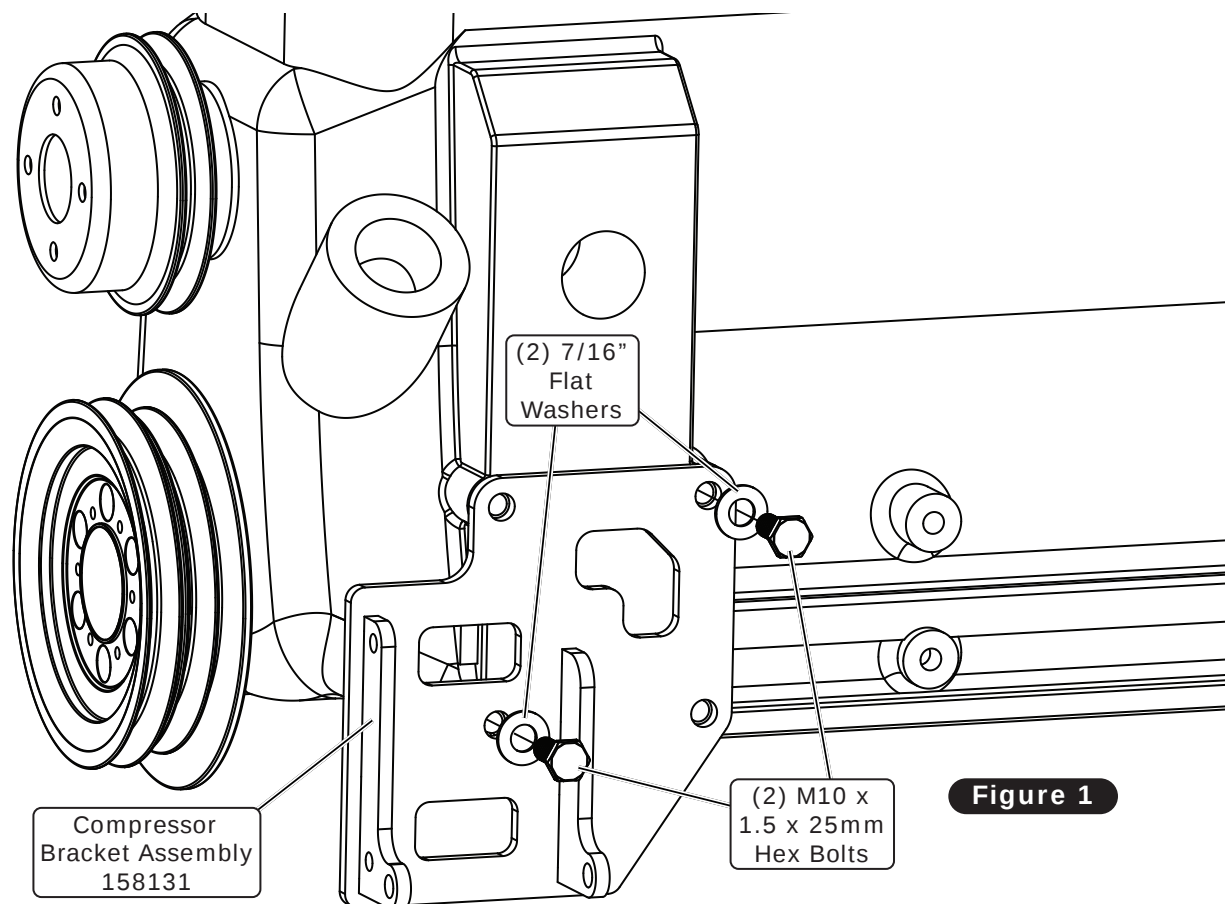


Photo 5

Compressor Bracket Installation

NOTE: Some hardware will be reused from Compressor Bracket Kit (158130).

1. Using the hole in the center of the bracket and in the corner, install the compressor bracket assembly onto the engine block using (2) M10 x 1.5 x 25mm hex bolts and (2) 7/16" flat washers as shown in Figure 1, below.
2. Once the bracket assembly is aligned, tighten the center bolt, then remove the corner bolt.



NOTE: Before tightening bolts, assemble all brackets loosely to the engine. This will ensure proper alignment of all brackets. Refer to 1970-83 Datsun Z Compressor Bracket Kit Instructions (158130) for additional information.

Compressor Bracket Installation (Cont.)

3. Install the bracket assembly through the compressor bracket and into the engine block using (3) M10 x 1.5 x 25mm hex bolts and (3) 7/16" flat washers as shown in Figure 2, below. Tighten all bolts.
4. Install the front compressor bracket onto the compressor using a 3/8-16 x 1 1/4" hex bolt inserted into the threaded hole at the bottom (See Figure 3, below).
5. Install a 3/8-16 x 1 1/4" hex bolt through the compressor and adjustment slot, then secure it with a 3/8-16 serrated flange nut on the back of the adjustment arm as shown in Figure 3, below.

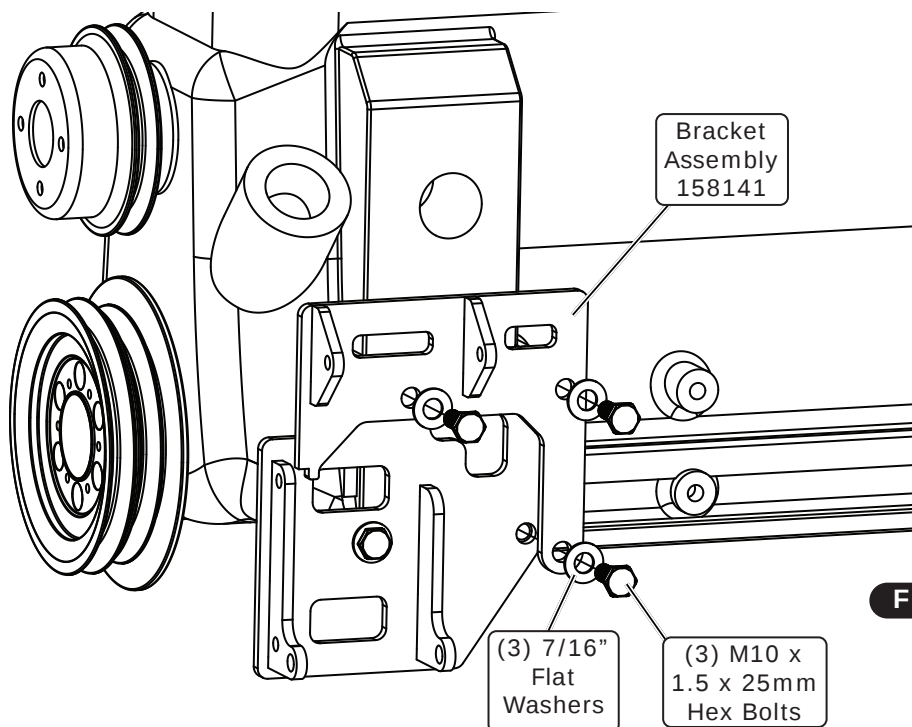


Figure 2

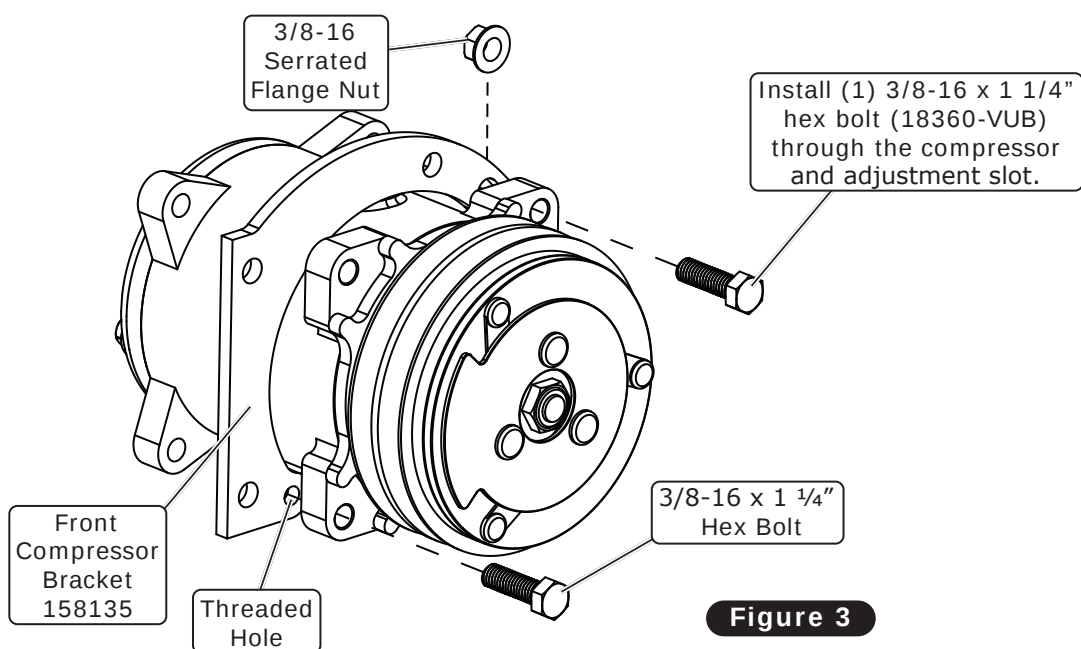


Figure 3

Compressor Bracket Installation (Cont.)

6. Install the compressor with the front compressor bracket onto the compressor bracket assembly by pinning the bolt through the bracket using the through-hole as shown in Figure 4, below. **NOTE: This will support the compressor for the next steps.**
7. Secure the compressor assembly to the threaded holes on the compressor bracket assembly using (2) 3/8-16 x 3/4" hex bolts as shown in Figure 5, below.

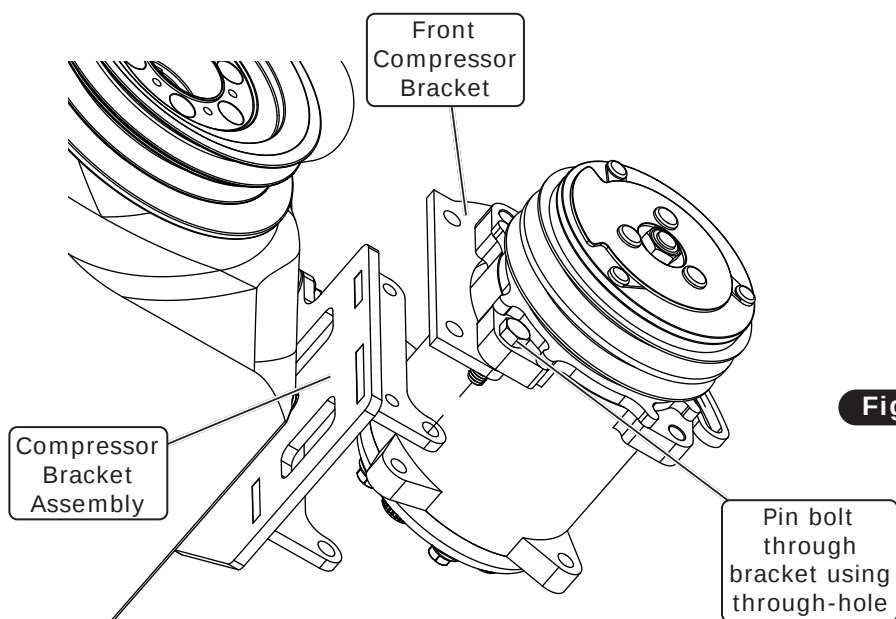


Figure 4

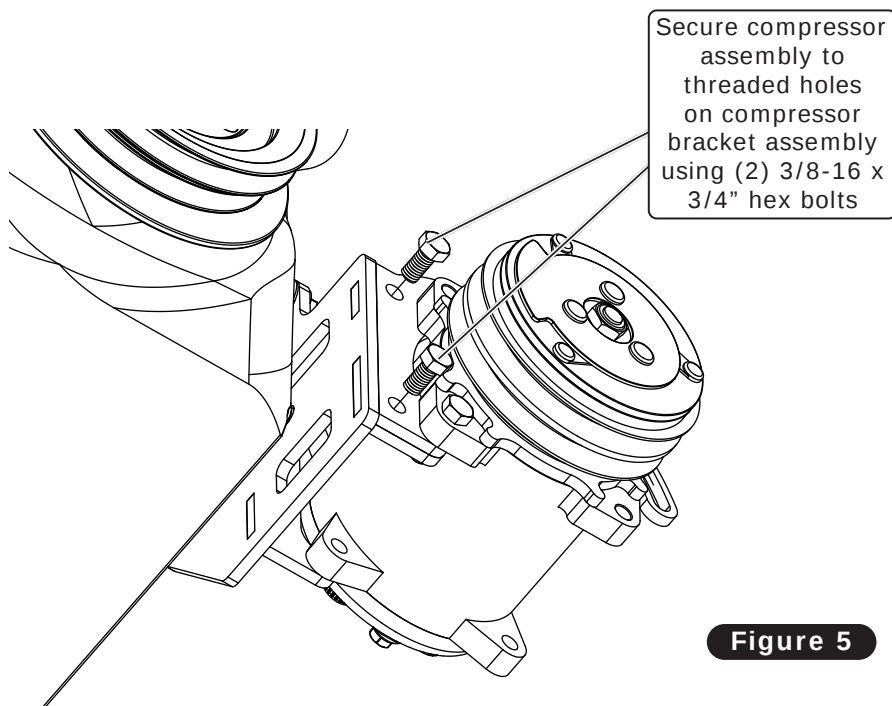


Figure 5

Compressor Bracket Installation (Cont.)

8. Secure the rear of the compressor to the engine bracket using a 3/8-16 x 1 1/4" hex bolt and a 3/8-16 serrated flange nut as shown in Figure 6, below. Leave loose.

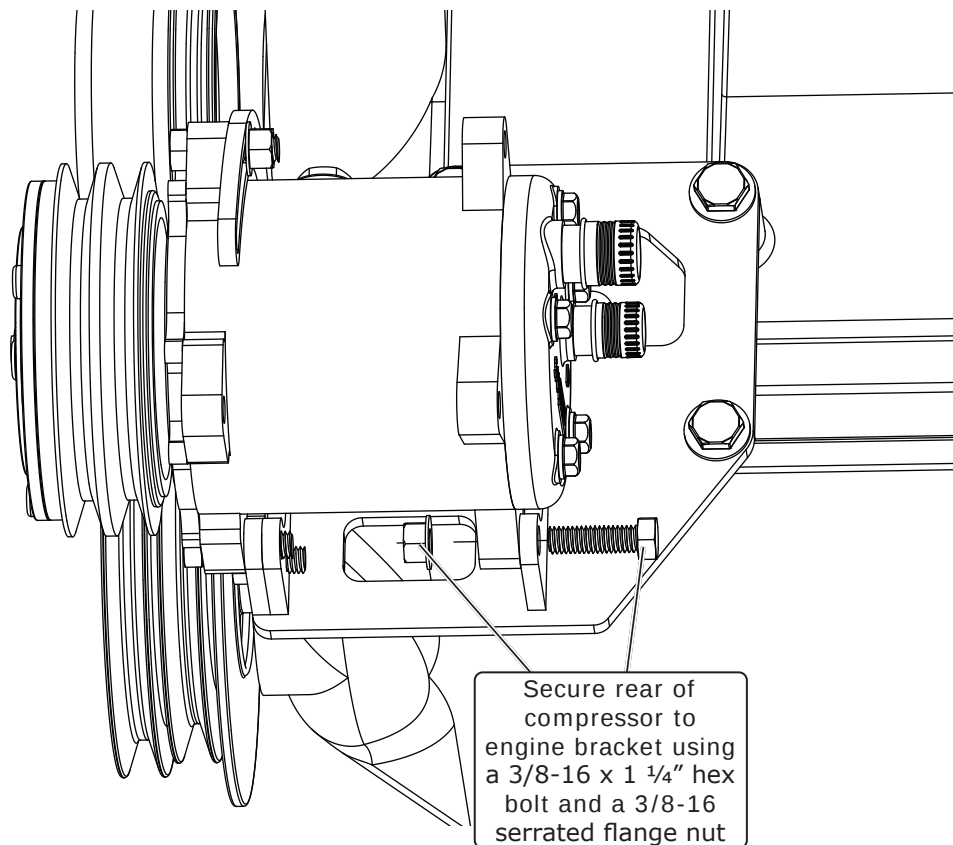


Figure 6

Compressor Bracket Installation (Final)

9. Install a 3/8-16 x 3/4" hex bolt through the hole in the compressor bracket and into the threaded hole on the arm bracket (See Figure 7, below).
10. Install the Smog pump onto the bracket using a 5/16-18 x 4 1/2" hex bolt and a 5/16-18 locknut through the brackets near the engine block (See Figure 8, below). Leave loose.
11. Secure the Smog pump to the adjustment arm bracket using a 5/16-18 x 4" hex bolt and a 5/16-18 serrated flange nut (See Figure 8, below). Leave loose.

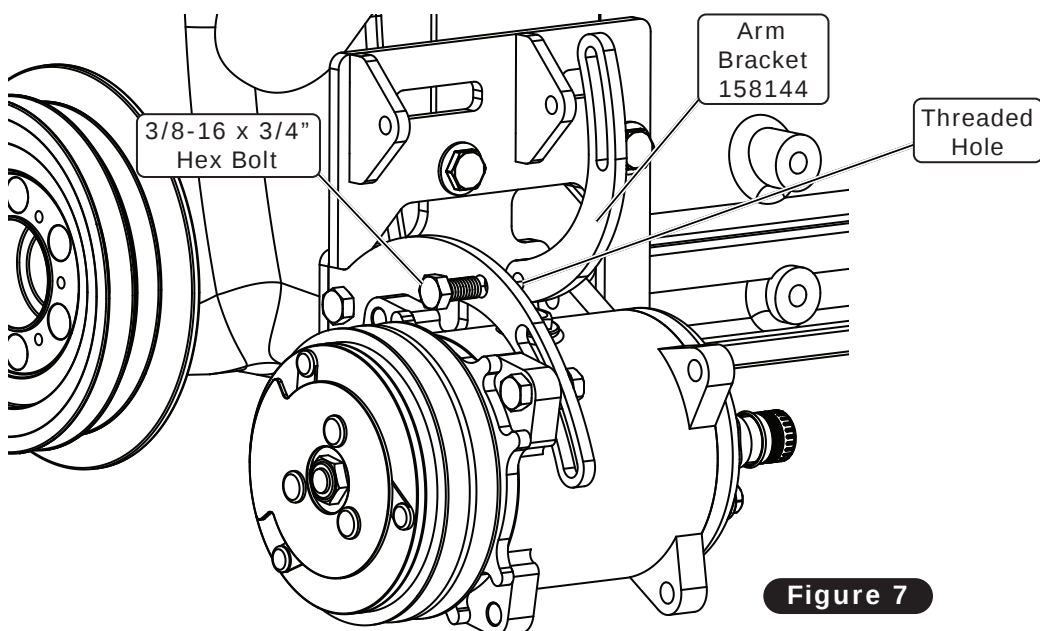


Figure 7

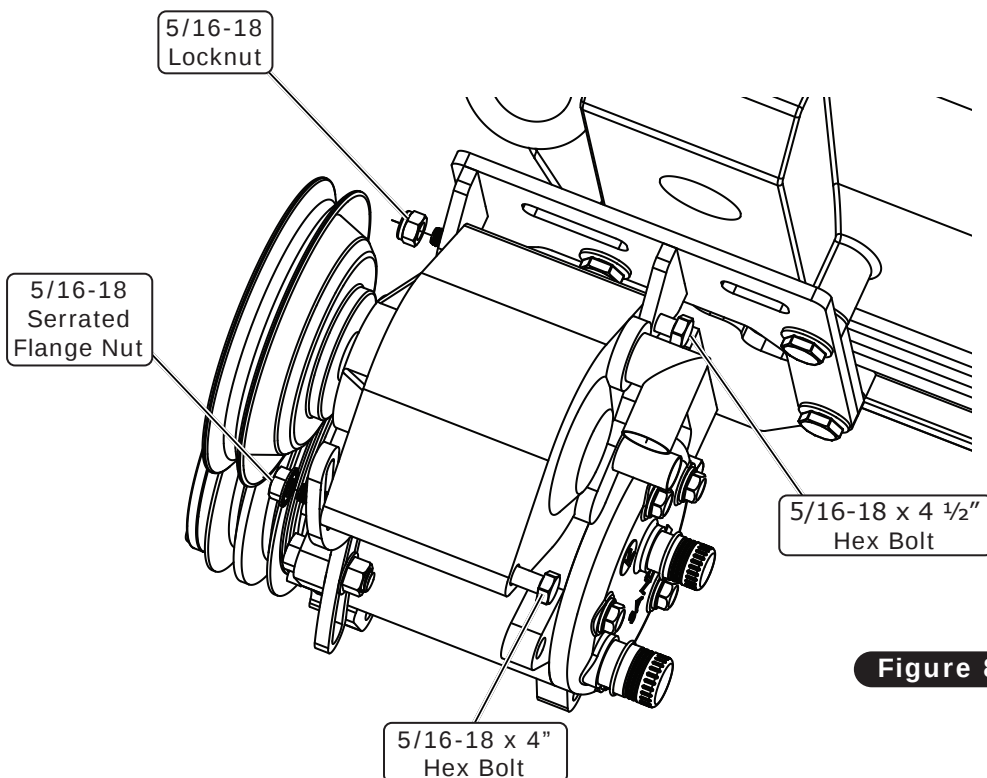
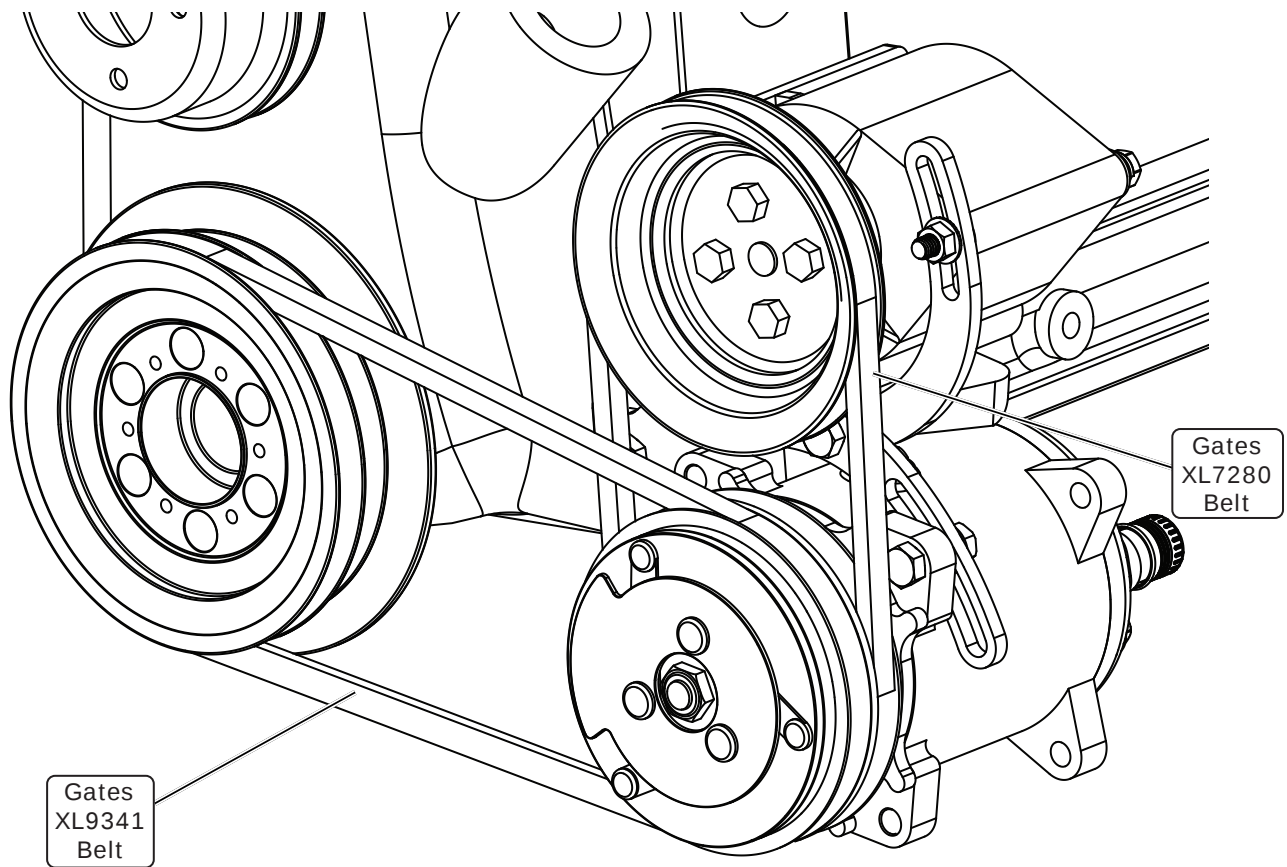


Figure 8

Belt Installation

1. Measure and install the belt onto the Smog pump and compressor. **NOTE: Belt length may vary based on pulley diameters. Vintage Air used a Gates XL7280 belt.**
2. Measure and install the belt onto the crank pulley and compressor. **NOTE: Belt length may vary based on pulley diameters. Vintage Air used a Gates XL9341 belt.**
3. Once both belts are loosely installed, tension the compressor belt first. Tension the belt and tighten the bolts starting with the serrated flange nut on the adjustment slot, then the lower bolts.
4. Tension the Smog pump belt and tighten the bolt for the adjustment arm. Then tighten the bolt closest to the engine block.

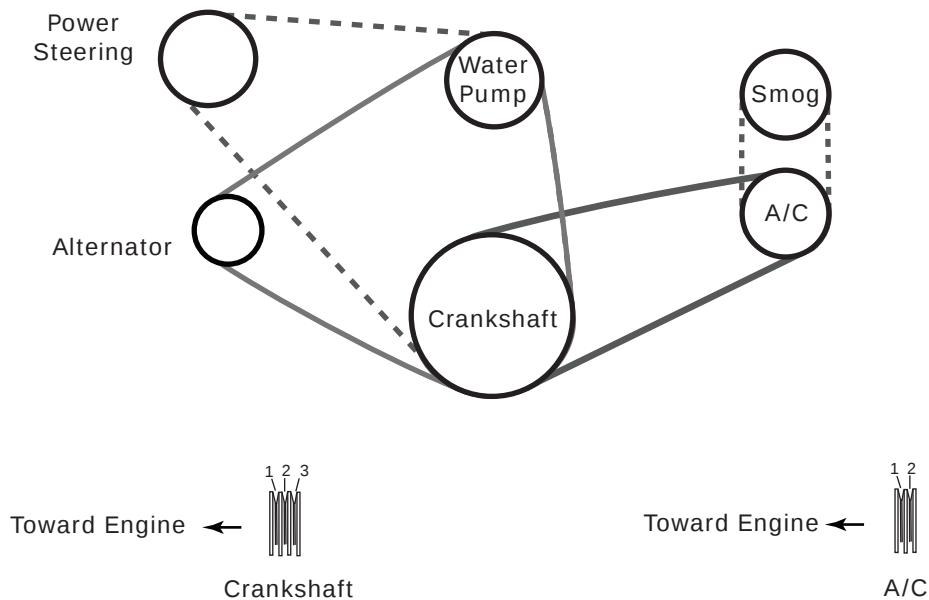


Final Belt Assembly

Figure 1

Belt Routing Diagram

NOTE: Not all vehicles were equipped with smog and/or power steering.



Crankshaft Pulley Grooves:

1. Crankshaft, Alternator & Water Pump
2. Crankshaft & A/C
3. Crankshaft, Power Steering & Water Pump

A/C Pulley Grooves:

1. A/C & Smog
2. Crankshaft & A/C

Crankshaft Pulley / Harmonic Balancer Options:

1. 280Z OEM 2-groove balancer and OEM timing marker
2. 280ZX style balancer and timing marker, such as Datsun 280ZX 2-Groove Pulley (735016) and 280ZX Timing Marker Kit (191149).

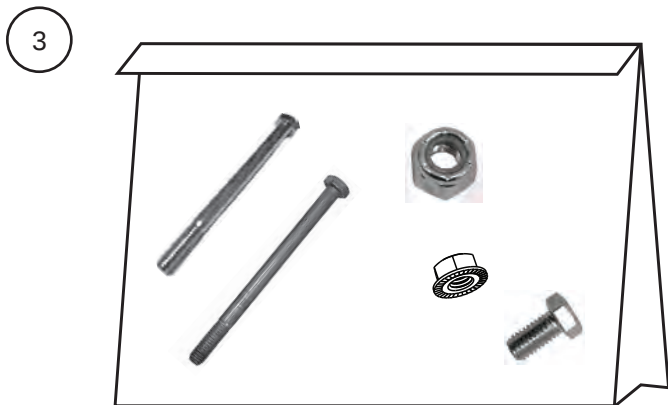
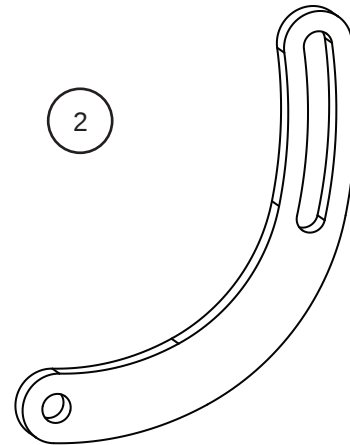
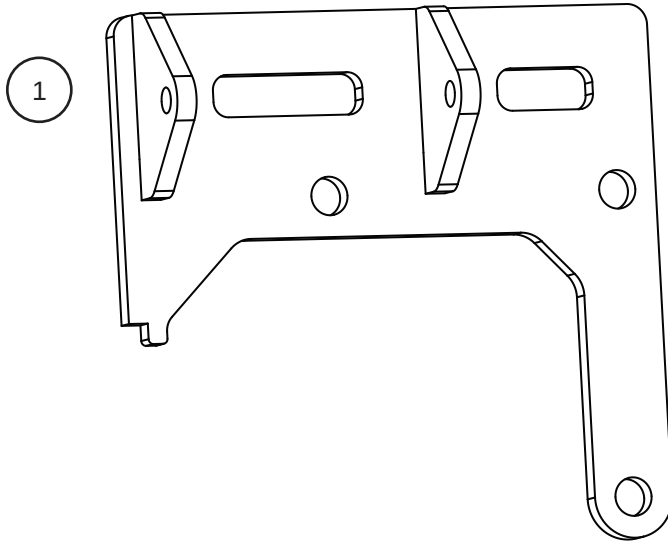


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Checked By: _____
Packed By: _____
Date: _____



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