



Installation Instructions

1985-1991 Corvette Air Pump Eliminator Pulley Kit

CA's new smog pump delete kit allows you to eliminate the weight and complexity of your smog pump while maintaining the OEM belt routing. Made completely from aluminum, this kit reduces weight and removes the parasitic drag from the original smog pump, freeing up horsepower. *This Kit is for off-road or race use only. Not legal for sale or for use in California for street driven vehicles.*



Tools Required

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| 1. Serpentine Belt Tool or Breaker Bar | 3. Ratchet with 3/8" and 5/16" Sockets |
| 1. Flat screwdriver | 4. Torque Wrench |
| 2. Phillips screwdriver | |

WORK SAFELY - Use eye protection, be sure engine is cool and disconnect battery cable prior to installation.

1. Use serpentine belt tool or breaker bar to take tension off of belt. Slide tool into opening on belt tensioner and turn clockwise. This will relieve tension on the belt and allow you to slide it off of the alternator and air pump pulleys.
2. At the rear of the alternator is a brace. Loosen bolts and remove brace. Next, loosen, but do not remove lower alternator bolt.
3. Remove bolts and dismount air pump to alternator bracket.
4. Swing alternator out of the way.
5. Remove black bracket connecting air pump to intake manifold.
6. With screwdriver, loosen clamp on air pump hose and pull hose away from pump outlet.
7. Remove two bolts and a stud with nut from beneath the air pump.
8. Carefully remove air pump and set aside.
9. Remove air pump stud.
10. Use supplied 3/8" diameter bolt and install in cylinder head hole directly under air pump (outer hole - to the right, looking at the front of the engine).
11. Tape over or plug air pump hose to prevent debris from entering. You may remove hose and piping, but be sure to leave check valves in place.
12. Install pulley kit in place of air pump. Large spacer should be in upper position - short spacer in lower position. Screw bolts finger-tight into holes in engine.
13. Swing alternator back into position and loosely re-install rear brace.
14. Swing pulley kit's upper brace into position with alternator. Upper alternator bolt hole should align with one of the holes in the end the brace.
15. Install 5/16" bolt through brace and upper hole of alternator and secure with washer, lock washer and nut.
16. Check alignment of kit pulley with alternator pulley. You may need to shim the long and short kit spacers out from engine with supplied washers.
17. Once pulleys align, retighten all bolts: (3/8" bolts - approx. 50 ft./lbs., 5/16" bolts 35 ft./lbs.)
18. Use Serpentine Belt Tool or Breaker Bar to depress tensioner and install new belt on pulleys. Remove Tool or Bar.
19. Connect battery cable, start car and check for correct belt operation.

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