

How to Replace Gen II Prius Spark Plugs and Vent Valve (PCV)

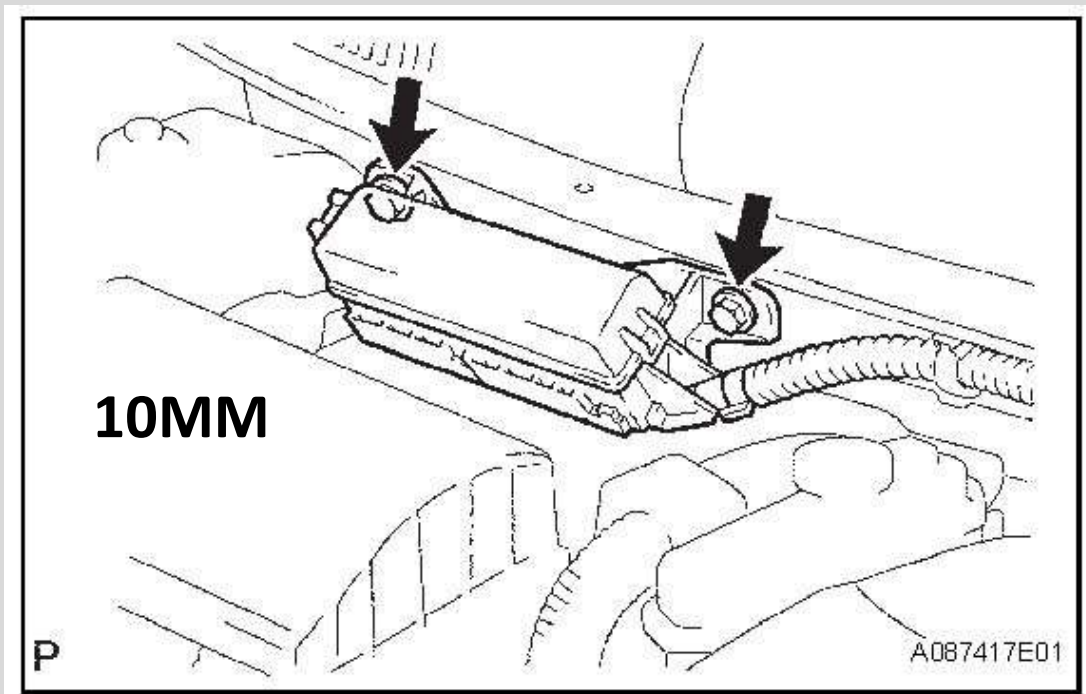
Parts Needed:

- PARTS (Prices I paid purchased at Dealer):
 - (4) Part # **90080-91184, SK16R11 IRIDIUM Spark Plugs @ 9.70 = \$38.80**
 - (1) Part # **12204-21011 Valve Sub-assembly (PCV Valve) @ \$9.12**
 - (1 packet) **Anti-seize compound** for plug threads, buy a foil packet at auto parts store @ \$1. One packet will do all 4 plugs.
- TOOLS Needed:
 - **Torque Wrench**
 - **Ratchet**
 - **10mm socket**
 - **Ratchet Extension**
 - **19mm Reversible Ratcheting Combination Wrench (\$22) – This allows you to replace PCV without removing the wipers and cowl.**
 - **Flathead Screwdriver**

Gen II Engine Compartment

5. REMOVE ENGINE ROOM NO. 2 RELAY BLOCK
- (a) Remove the 2 bolts and relay block.
 - (b) Remove the 4 wire harness clamps. (Optional)

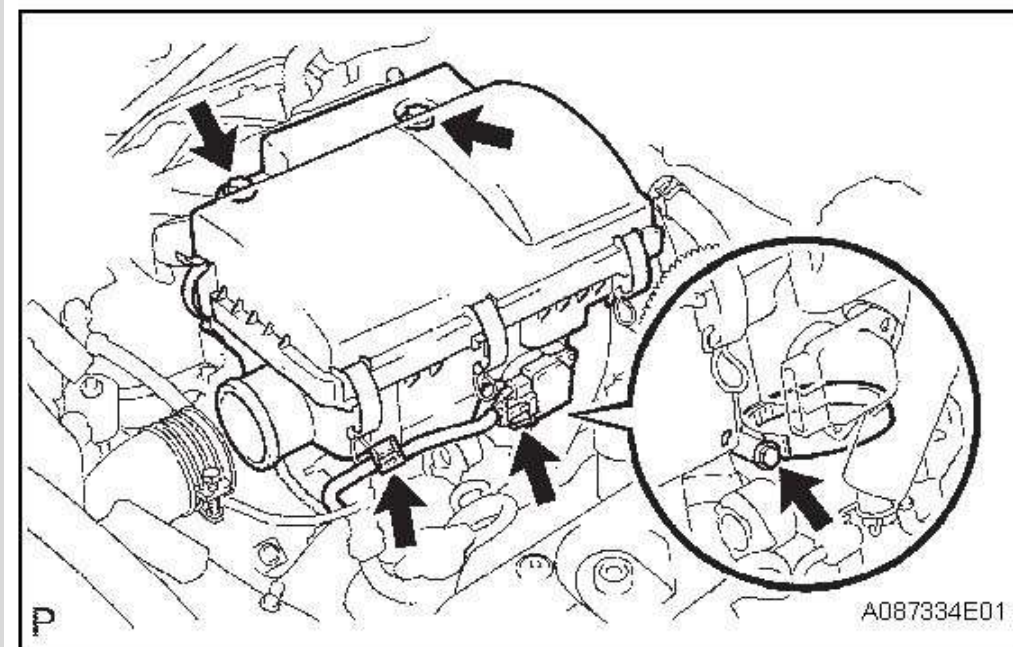
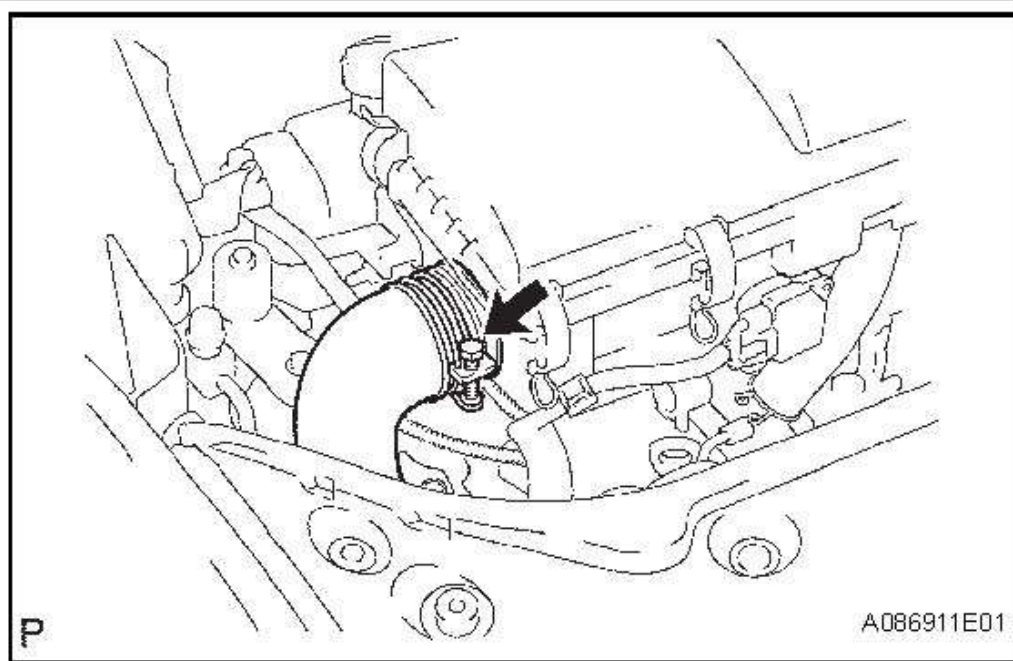
HANG OUT OF WAY WITH BUNGIE CORD ON HOOD



6. REMOVE AIR CLEANER ASSEMBLY

- (a) Loosen the clamp, then disconnect the No. 1 air cleaner inlet from the air cleaner case.
- (b) Disconnect the mass air flow meter connector, then remove the wire harness clamp.
- (c) Loosen the 2 clamps, then remove the 2 bolts and air cleaner assembly.

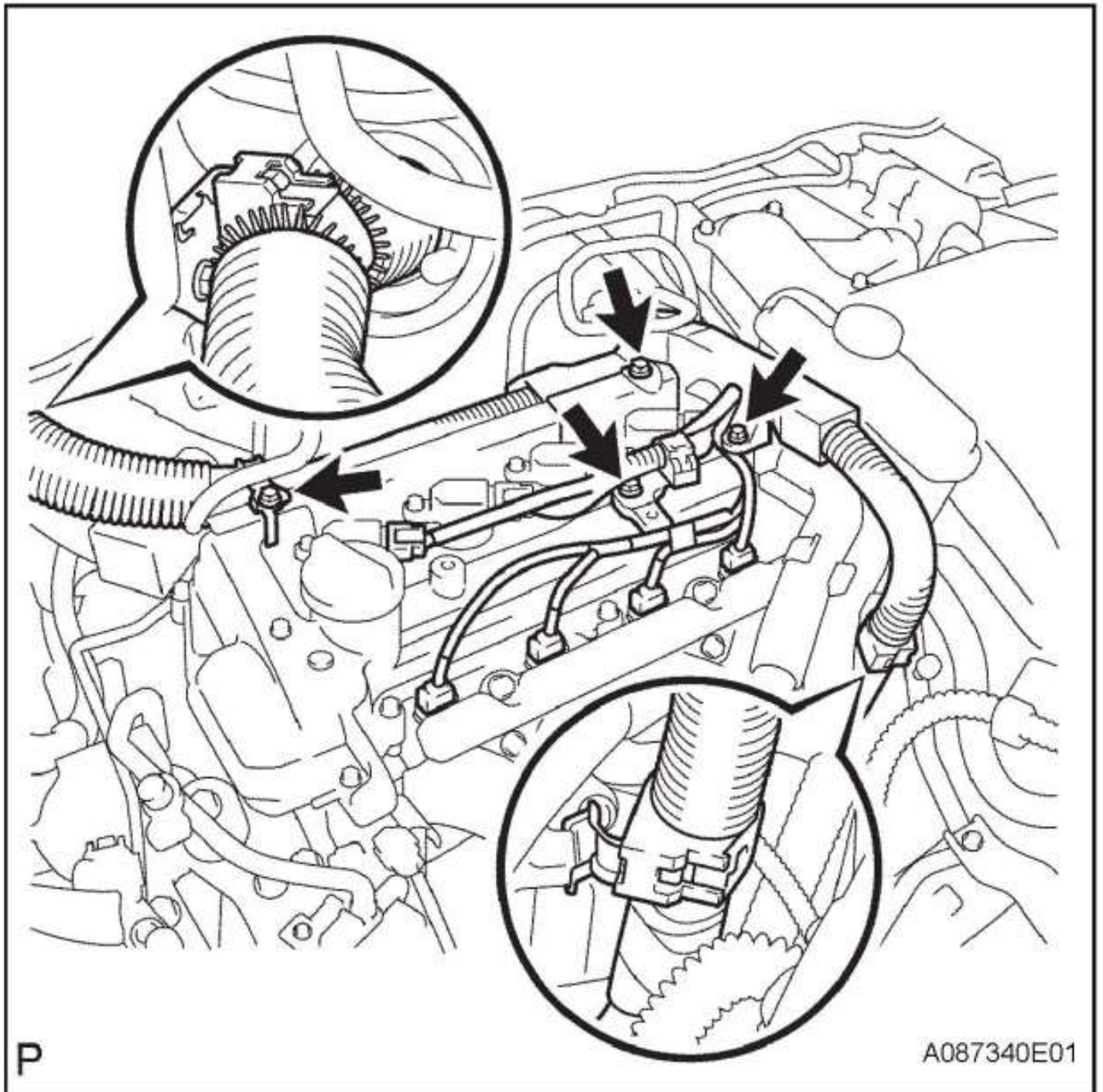
COVER THROTTLE BODY THROAT AFTER REMOVING AIR CLEANER ASSEMBLY



7. REMOVE WIRE HARNESS

- (a) Disconnect the fuel injector connector and ignition coil connector.
- (b) Remove the 3 bolts and wire harness clamp, then disconnect the wire harness.

**CAREFULLY MOVE WIRE HARNESS
SO YOU CAN ACCESS COILS & PLUGS**



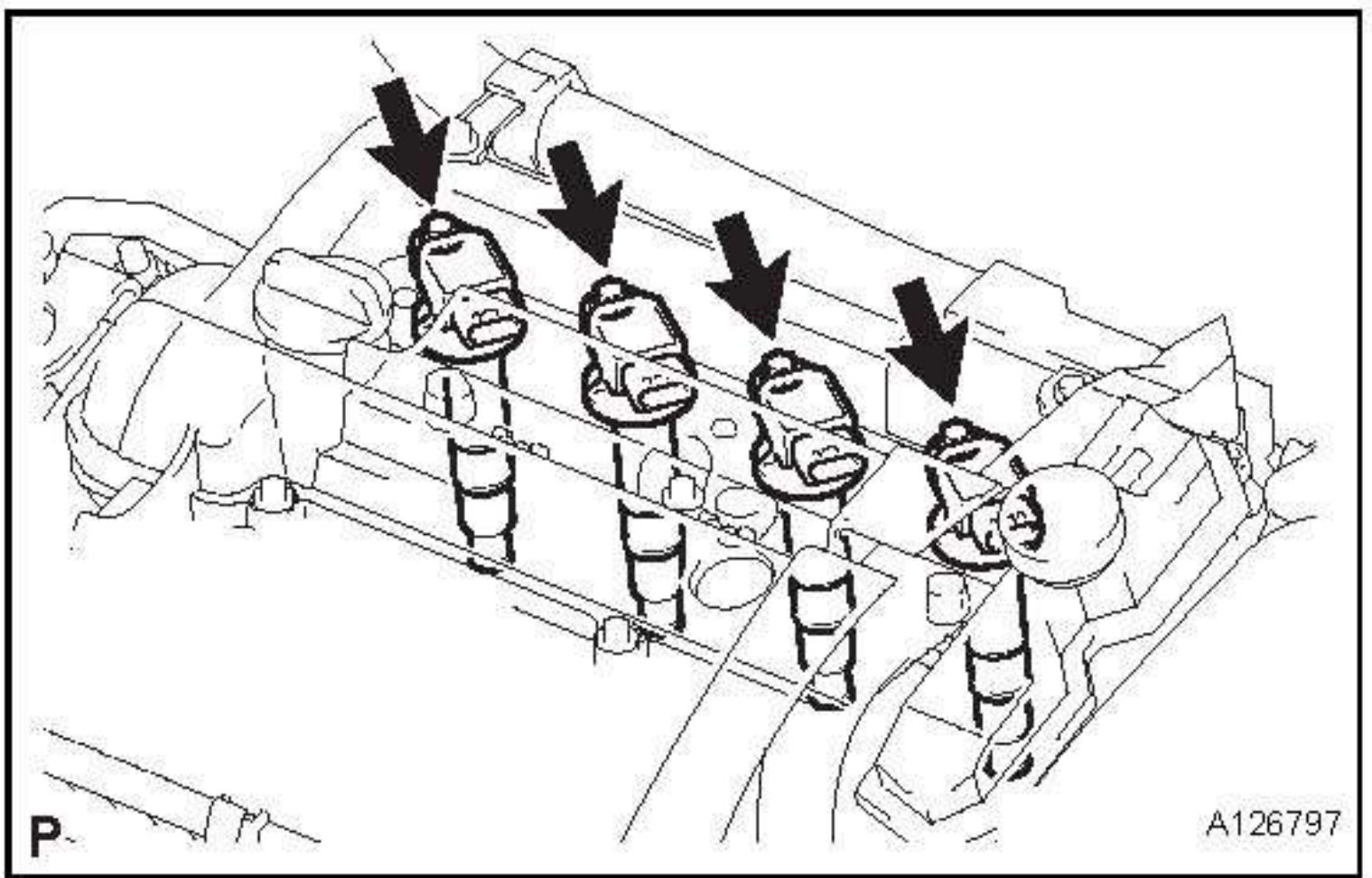
-DISCONNECT ELECTRICAL CONNECTOR FROM EACH IGNITION COIL.

-USE 10MM SOCKET TO REMOVE COIL ATTACHMENT BOLTS.

--PULL UP GENTLY TO REMOVE EACH COIL.

---INSPECT EACH COIL FOR WATER DAMAGE, CRACKS AND CUTS.

PRIUS HAS HAD SOME ISSUES WITH WATER RUNNING DOWN THE COWL BELOW WIPERS AND SITTING ON THE COILS CAUSING DAMAGE TO COILS AND ROUGH RUNNING.



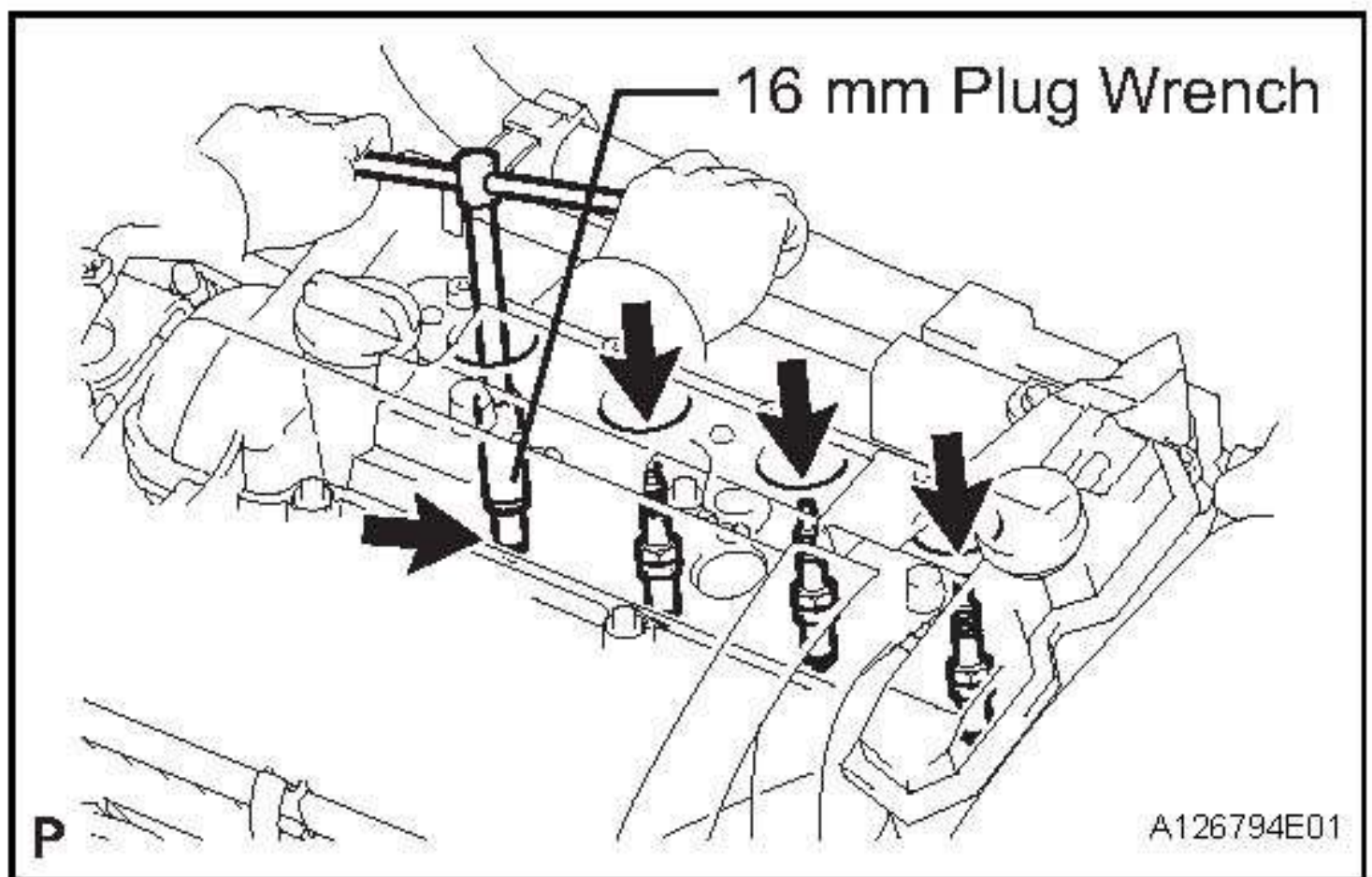
-USE SOCKET WITH RUBBER-LINED 16MM PLUG SOCKET TO REMOVE AND INSTALL PLUGS TO AVOID BREAKING CERAMIC.

-PUT SOME ANTI-SEIZE COMPOUND ON NEW PLUG THREADS BEFORE INSTALLING. THEY'LL BE THERE FOR ANOTHER 120,000 MILES AND WILL BE EASIER TO REMOVE NEXT TIME.

-START THREADING NEW PLUGS BY HAND WITH SOCKET AND EXTENSION UNTIL YOU'RE SURE THEY'RE NOT CROSS THREADED.

THEN TORQUE TO 13 FT. LBS.

DON'T REINSTALL COIL CONNECTIONS UNTIL AFTER PCV REPLACEMENT.



8. REMOVE VENTILATION VALVE

- (a) Disconnect the ventilation hose.
- (b) Remove the ventilation valve.

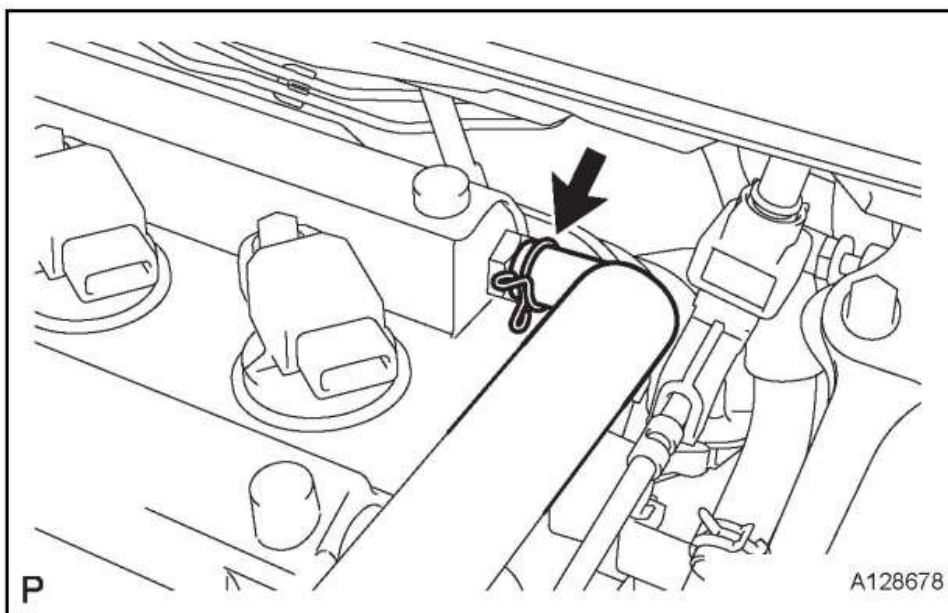
-USE 19MM REVERSIBLE RATCHETING BOX END WRENCH TO REMOVE AND INSTALL VENT VALVE SUB-ASSEMBLY (PCV).

-INSPECT VENT HOSE FOR CRACKS/TEARS.

-PUT SOME ANTI-SEIZE COMPOUND ON NEW PCV THREADS BEFORE INSTALLING NEW PCV.

-START THREADING PCV BY HAND, THEN TIGHTEN WITH RATCHETING BOX END.

CAN'T REALLY GET A TORQUE WRENCH IN WITHOUT REMOVING THE BRAKE MASTER CYLINDER, BUT TORQUE IS SUPPOSED TO BE TO 20FT. LBS. DON'T OVERTIGHTEN.



-REINSTALL ALL COMPONENTS IN REVERSE ORDER REMOVED..

5) Reconnect fuel injector connector and Ignition Coils (10 mm bolts), 80 IN LBS. 7 FT LBS.

**4) Reconnect Wire Harness (4 - 10mm bolts)
27 IN LBS, 2 FT. LBS**

3) Reinstall Air Cleaner Assembly, Hose and 2 bolts (10mm)

2) Reconnect Electrical Connector and 2 clamps of MAF Meter to Air Cleaner

1) Reattach Engine Room Relay Block (10mm). 80 IN LBS. 7 FT LBS

Job Complete.

Time To Put Away Tools

Enjoy The Next 120,000 Miles

