

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

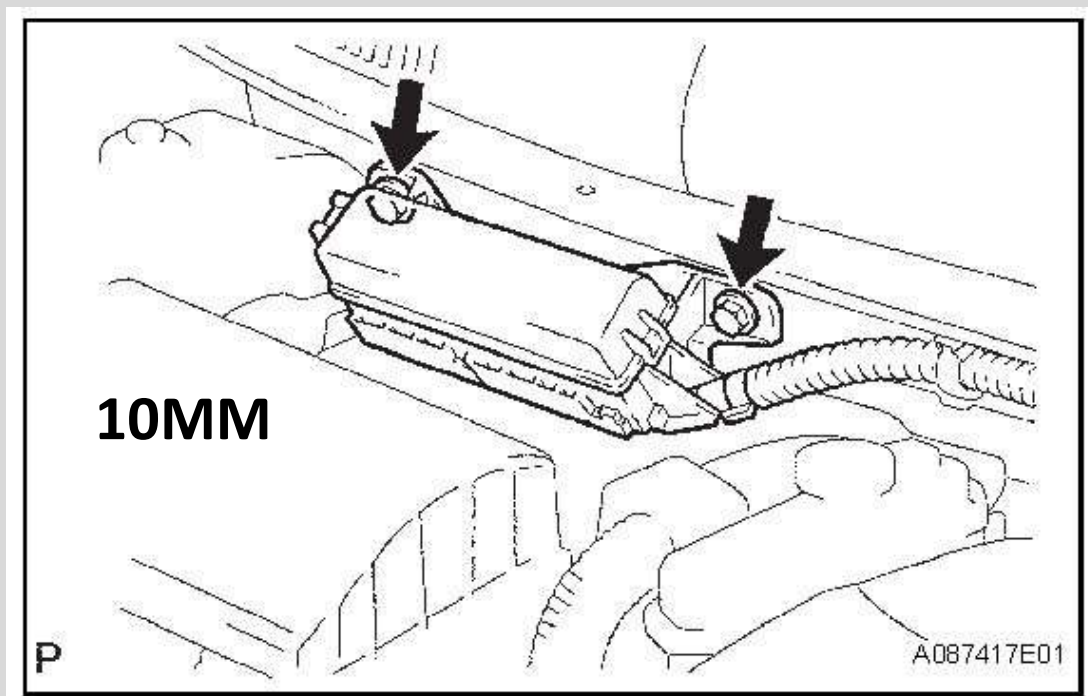
## Parts Needed:

- 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)

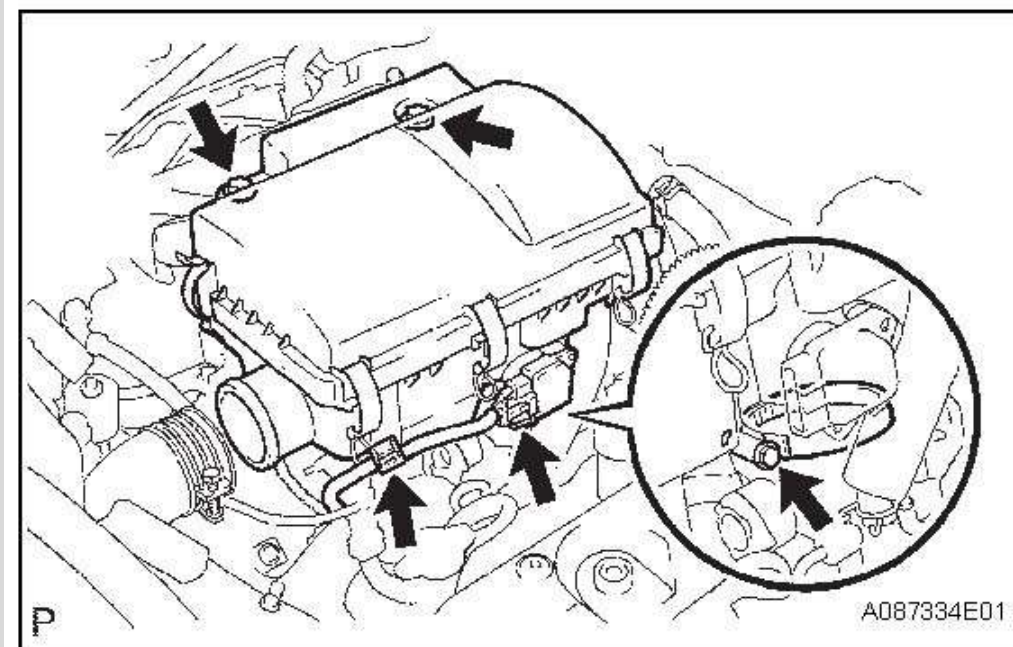
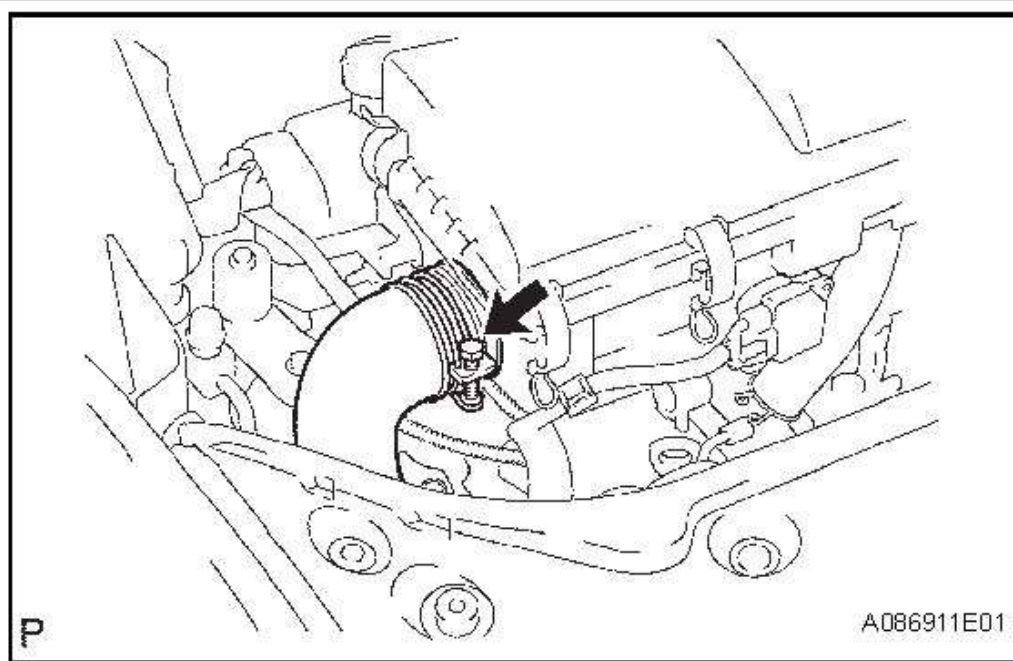
**HANG OUT OF WAY WITH BUNGIE CORD ON HOOD**



## 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

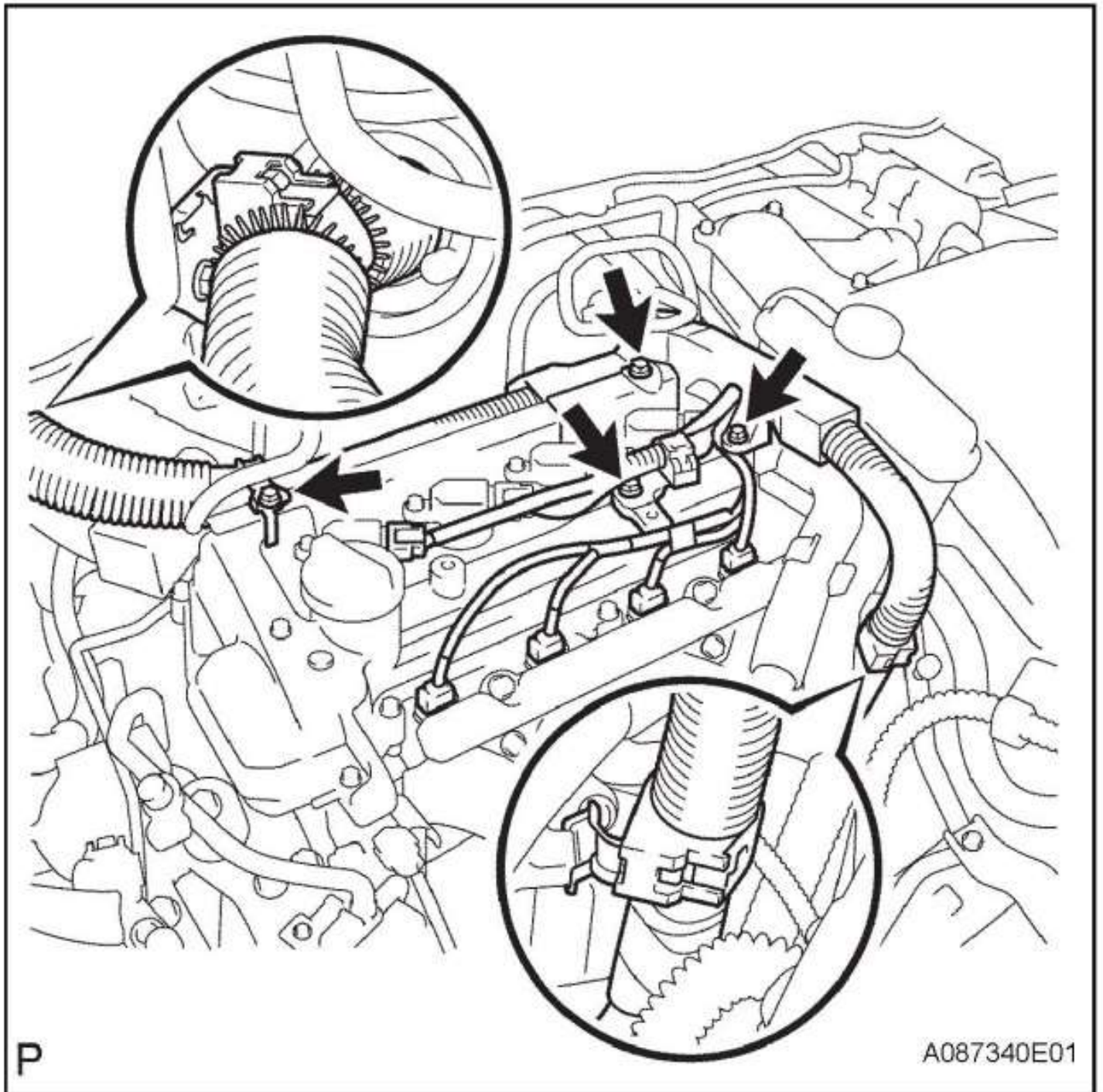




## 7. REMOVE WIRE HARNESS

- (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**



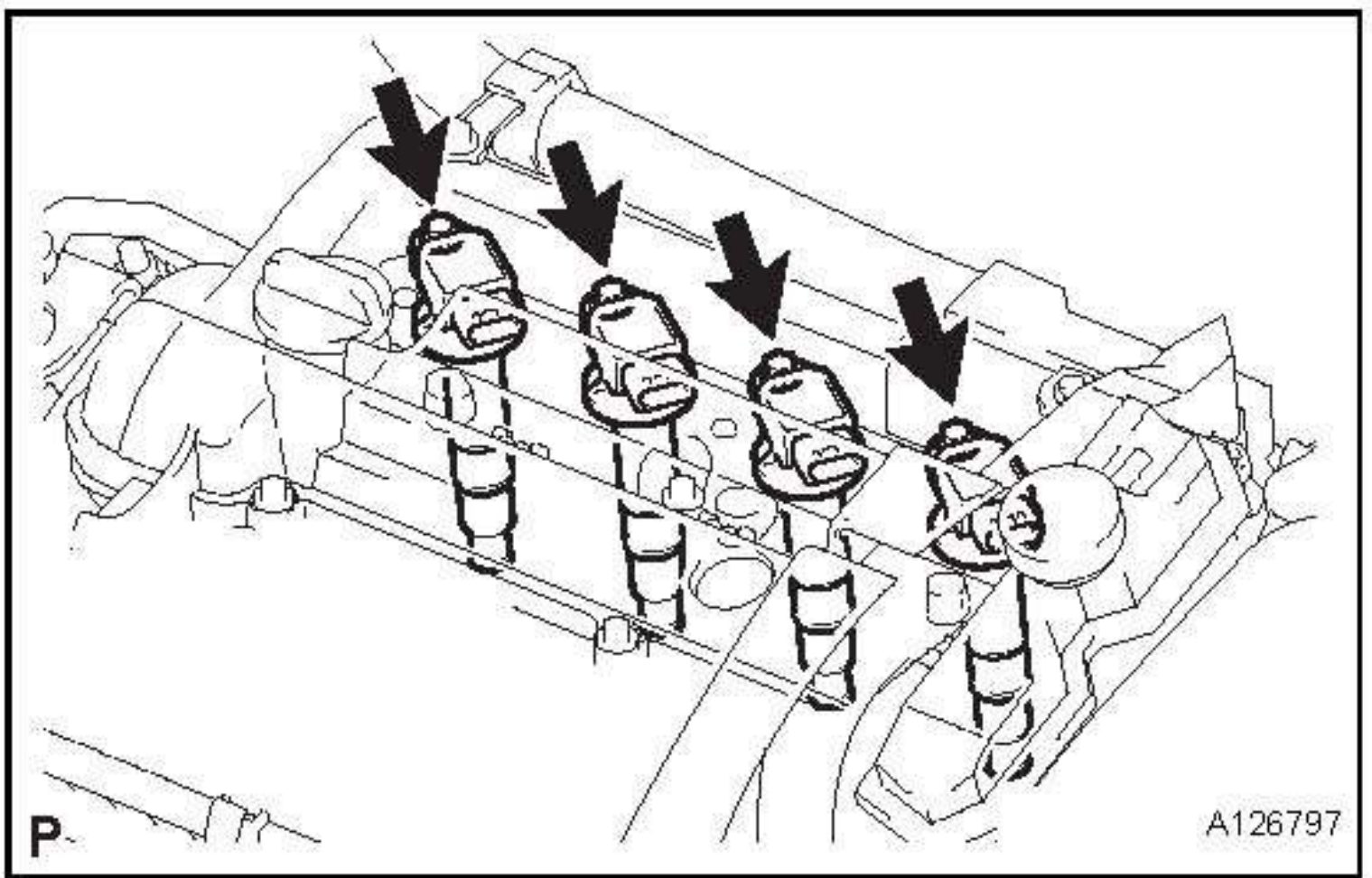
**-DISCONNECT ELECTRICAL CONNECTOR FROM EACH IGNITION COIL.**

**-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.**



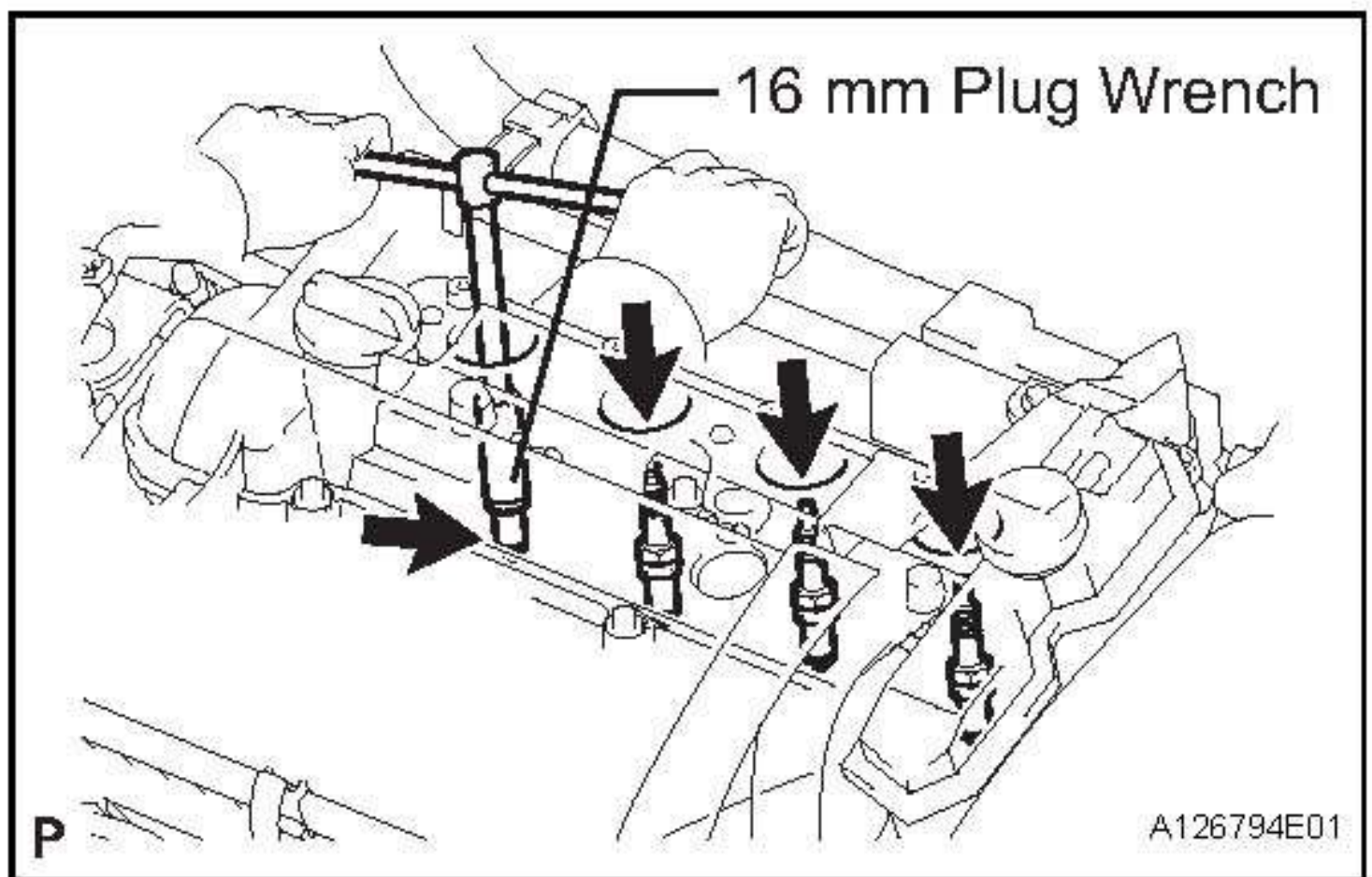
**-USE SOCKET WITH RUBBER-LINED 16MM PLUG SOCKET TO REMOVE AND INSTALL PLUGS TO AVOID BREAKING CERAMIC.**

**-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.

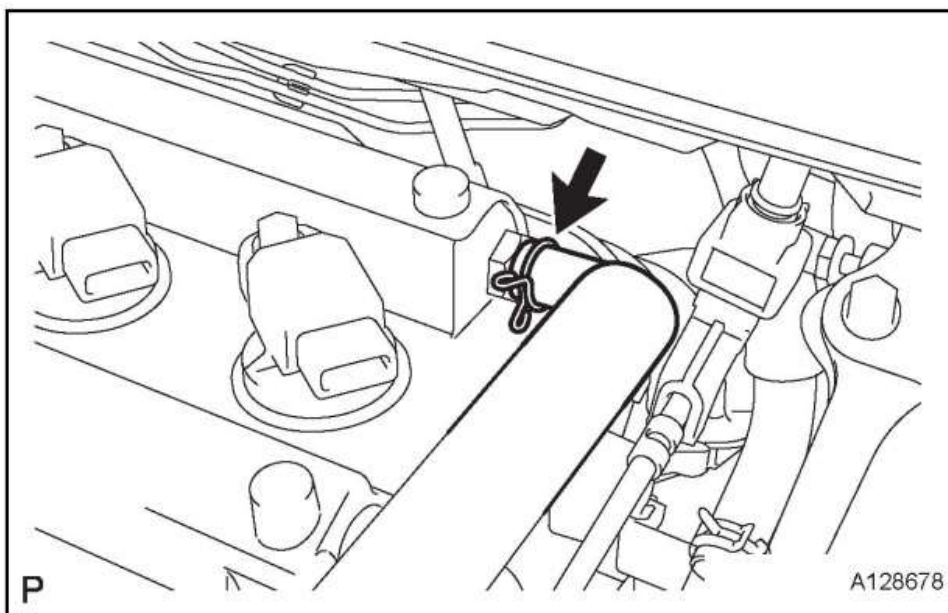
**-USE 19MM REVERSIBLE RATCHETING BOX END WRENCH TO REMOVE AND INSTALL VENT VALVE SUB-ASSEMBLY (PCV).**

**-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**

