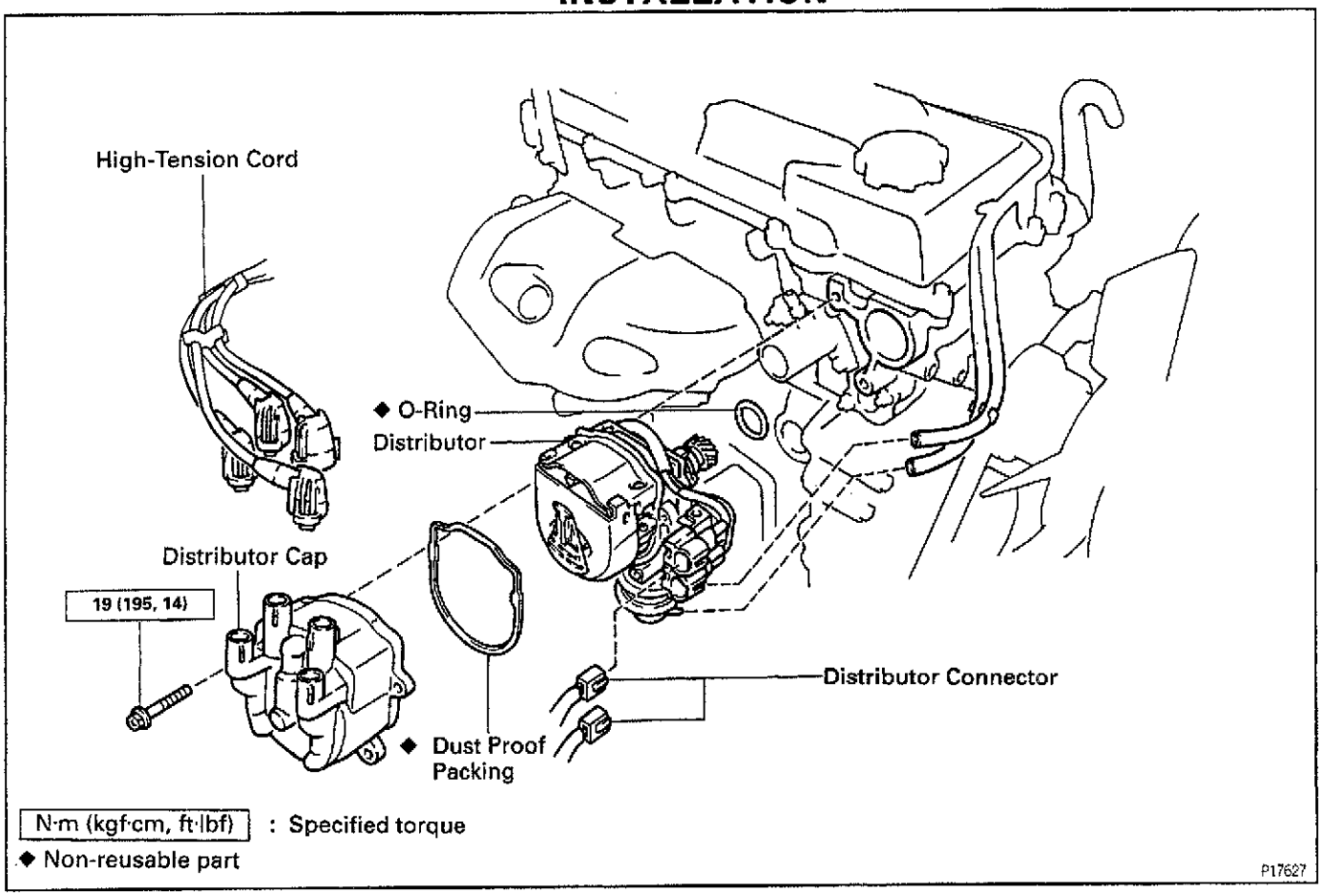
DISTRIBUTOR (3RZ–F)

IG039-0C

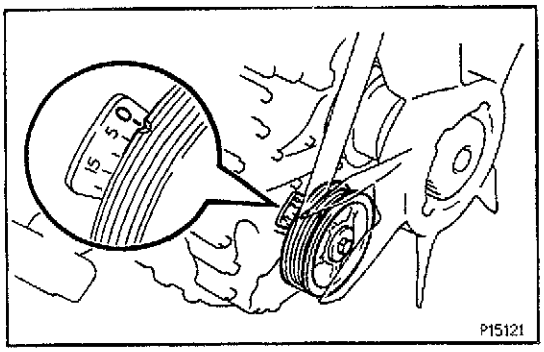
COMPONENTS FOR REMOVAL AND INSTALLATION



IG008-01

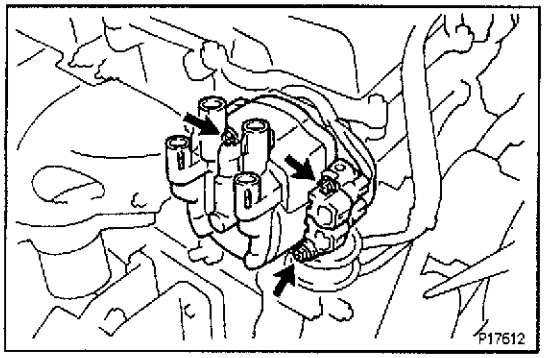
DISTRIBUTOR REMOVAL

1. **DISCONNECT NEGATIVE (–) TERMINAL CABLE FROM BATTERY**
2. **DISCONNECT DISTRIBUTOR CONNECTORS**
3. **DISCONNECT HIGH–TENSION CORDS FROM DISTRIBUTOR CAP**
   (See step 2 in high–tension cords inspection)

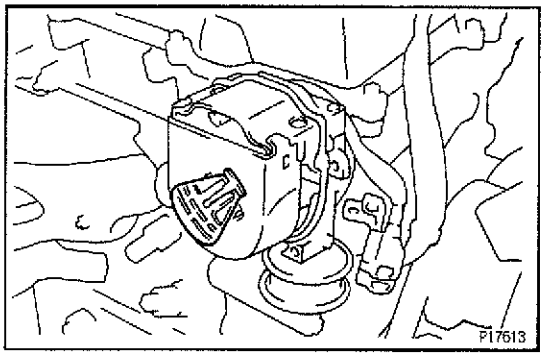


4. **SET NO.1 CYLINDER TO TDC/COMPESSION**

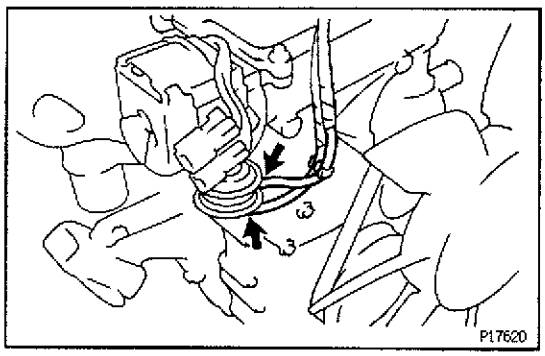
(a) Turn the crankshaft pulley clockwise until the timing mark is aligned with "0" mark on the oil pump cover.



(b) Remove the 3 bolts and distributor cap.

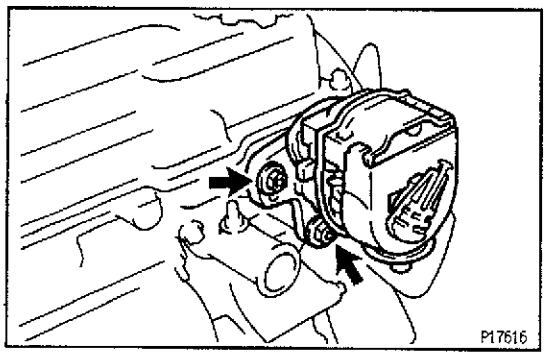


(c) Check that the distributor rotor direction is as shown. If not, turn the crankshaft pulley one complete revolution.



5. REMOVE DISTRIBUTOR

(a) Disconnect the 2 vacuum hoses.

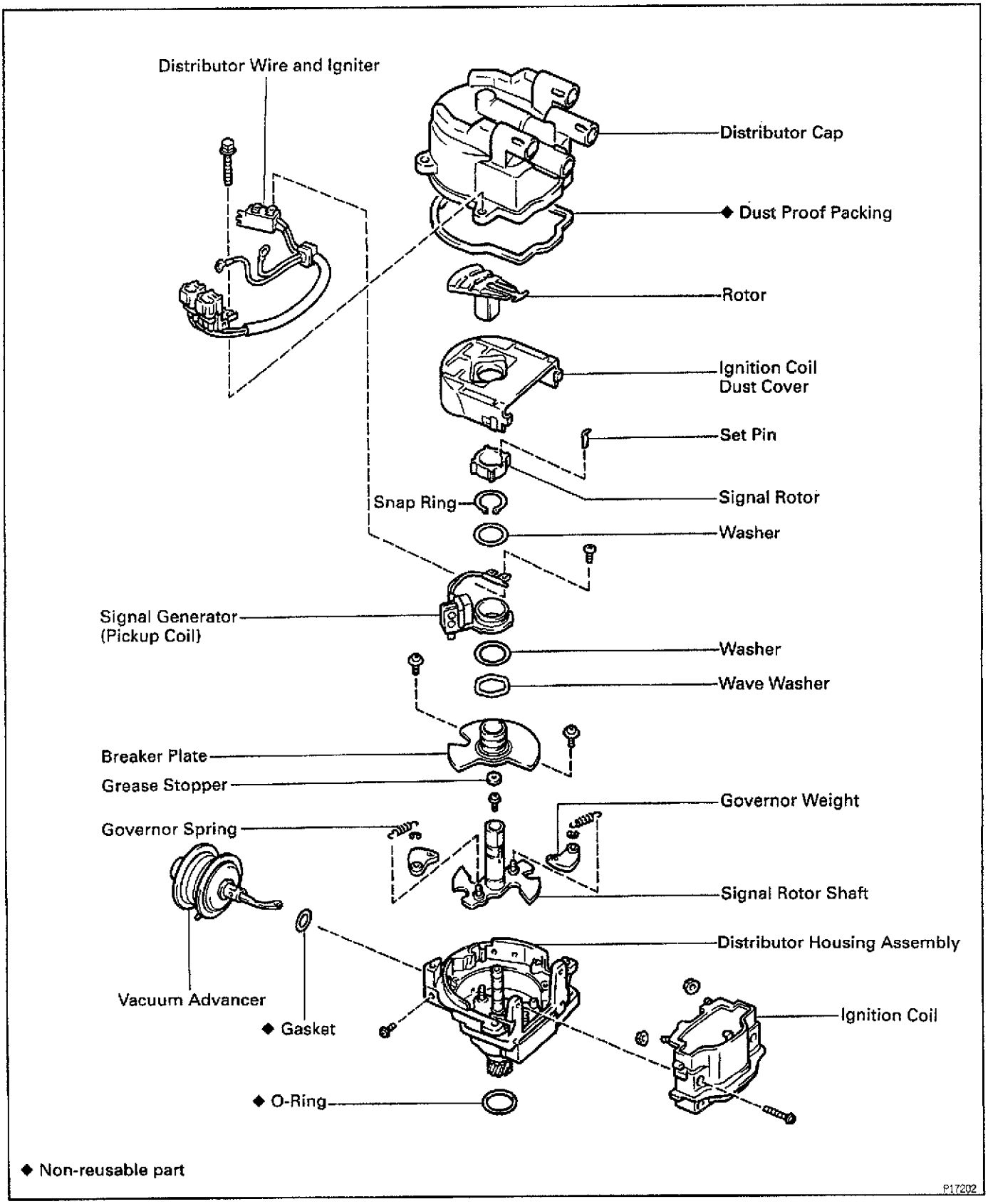


(a) Remove the 2 mounting bolts, and pull out the distributor.

(b) Remove the O–ring from the distributor housing.

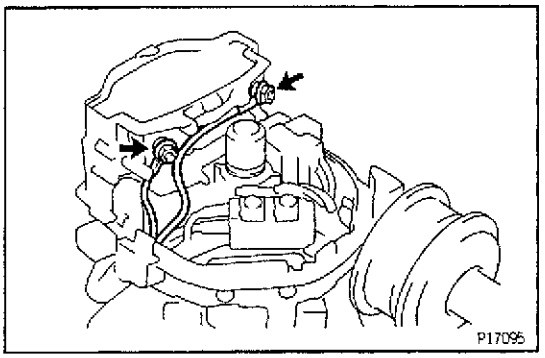
IG039-0D

COMPONENTS FOR DISASSEMBLY AND ASSEMBLY



I0QQ7-01

DISTRIBUTOR DISASSEMBLY



1. REMOVE ROTOR

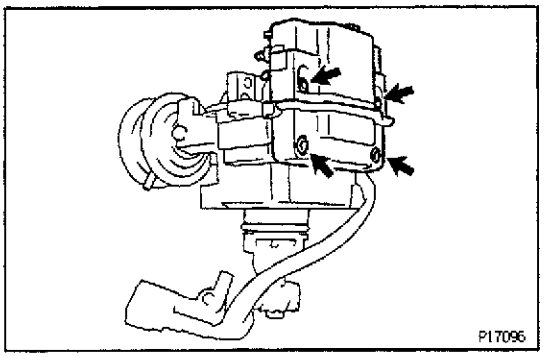
2. REMOVE IGNITION COIL DUST COVER

(a) Remove the dust cover.

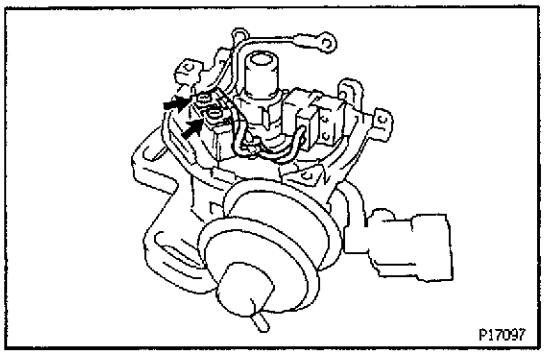
(b) Remove the dust proof packing.

3. REMOVE IGNITION COIL

(a) Remove the 2 nuts, and disconnect the 2 wires from the ignition coil terminals.

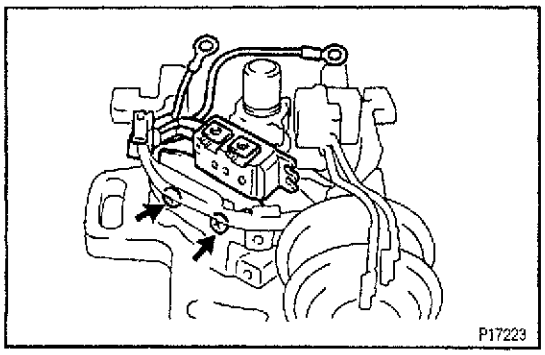


(b) Remove the 4 screws and ignition coil.

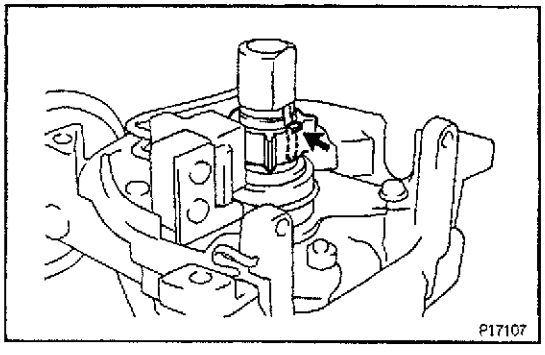


4. REMOVE IGNITER

(a) Remove the 2 screws, and disconnect the 2 pickup coil wire from the igniter.



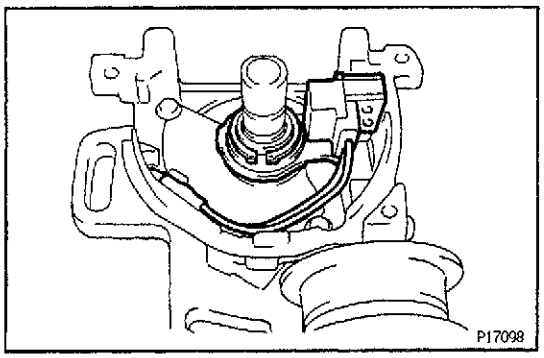
(b) Remove the 2 screws and igniter.



5. REMOVE SIGNAL ROTOR

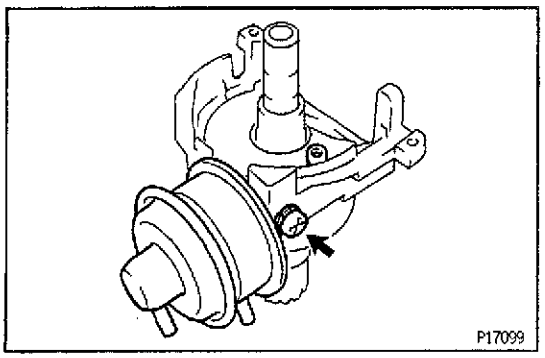
(a) Using a small screwdriver, pry out the rotor set spring.

(b) Pull out the signal rotor.



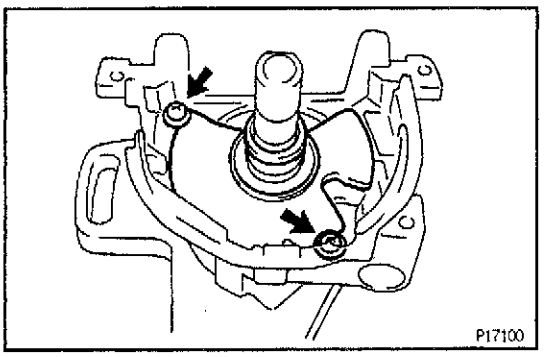
6. REMOVE SIGNAL GENERATOR (PICKUP COIL)

(a) Using snap ring pliers, remove the snap ring.
(b) Pull out the signal generator (pickup coil) and washer.
(c) Remove the washer and wave washer.



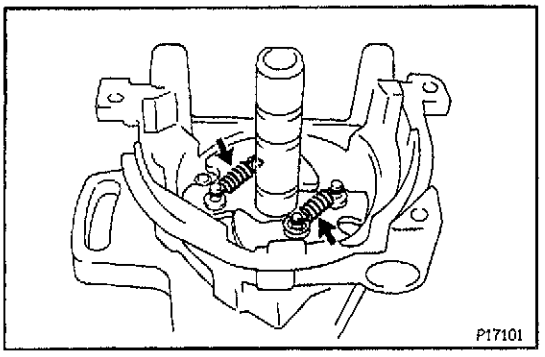
7. REMOVE VACUUM ADVANCER

Remove the screw and vacuum advancer.



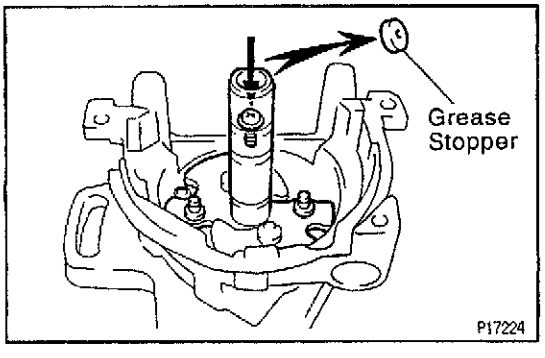
8. REMOVE BREAKER PLATE

Remove the 2 screws and breaker plate.



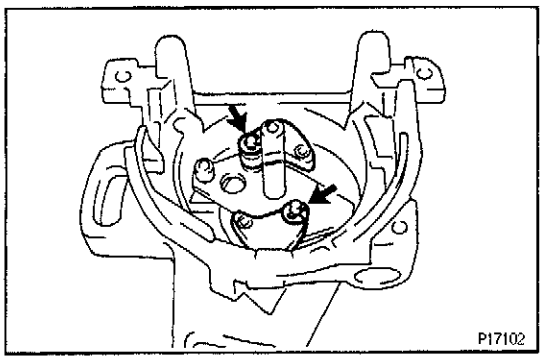
9. REMOVE GOVERNOR SPRINGS

Using needle–nose pliers, remove the 2 springs.



10. REMOVE SIGNAL ROTOR SHAFT

(a) Pry out the grease stopper.
(b) Remove the screw at the top of the governor shaft.
(c) Pull out the signal rotor shaft.

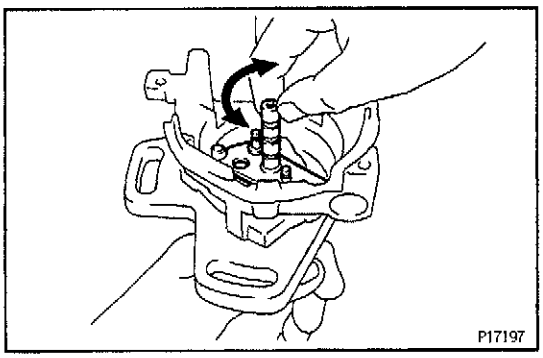


11. REMOVE GOVERNOR WEIGHTS

Using a small screwdriver, remove the E–rings and pull out the 2 weights.

IG0C1–02

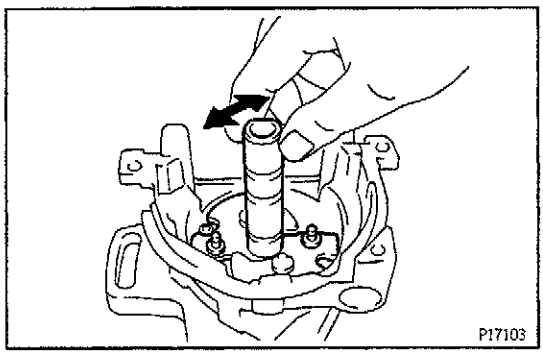
DISTRIBUTOR INSPECTION



1. INSPECT GOVERNOR SHAFT

Turn the governor shaft and check that it is not rough or worn.

If it feels rough or worn, replace the distributor housing.



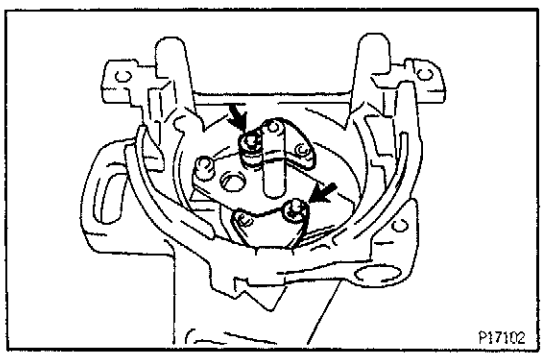
2. INSPECT SIGNAL ROTOR SHAFT

Temporarily install the signal rotor to the governor shaft and check that they fit together correctly.

If necessary, replace the signal rotor shaft or distributor housing.

IG0D8–02

DISTRIBUTOR ASSEMBLY



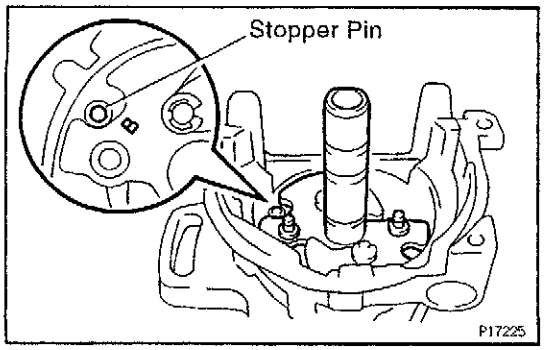
1. INSTALL GOVERNOR WEIGHTS

(a) Lightly coat the pivot pin of the governor shaft with high–temperature grease.

(b) Slide the weights over the small shafts.

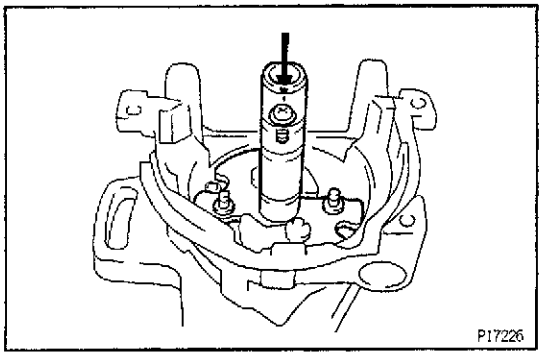
(c) Using needle–nose pliers, install the E–rings.

2. LIGHTLY COAT GOVERNOR SHAFT WITH HIGH–TEMPERATURE GREASE

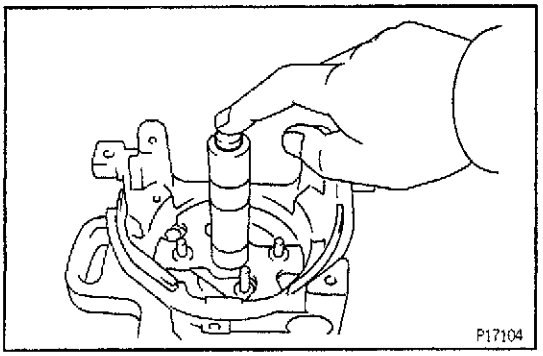


3. INSTALL SIGNAL ROTOR SHAFT

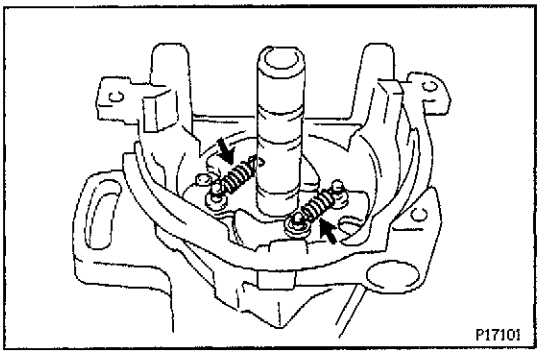
(a) Install the signal rotor shaft on the governor shaft as shown in the illustration.



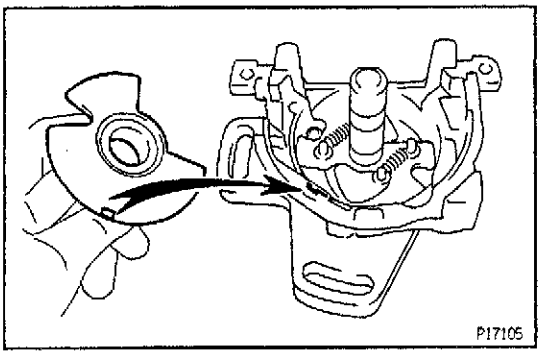
(b) Install the screw.
(c) Pack high–temperature grease into the shaft.



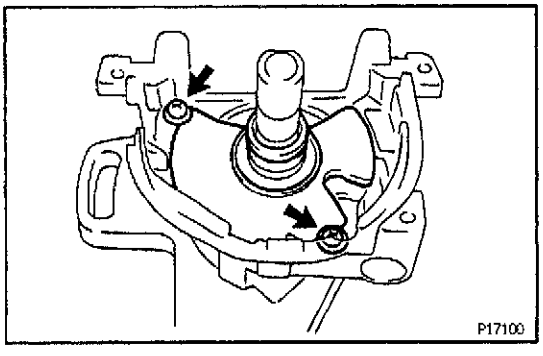
(d) Push on the grease stopper with your finger.



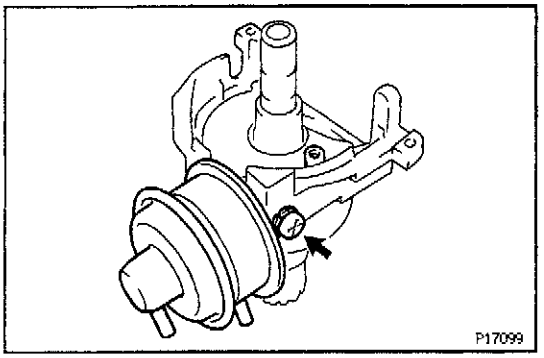
4. INSTALL GOVERNOR SPRINGS
Using needle–nose pliers, install the 2 springs.



5. INSTALL BREAKER PLATE
(a) Align the cutout parts of the breaker plate and housing, and install the breaker plate.

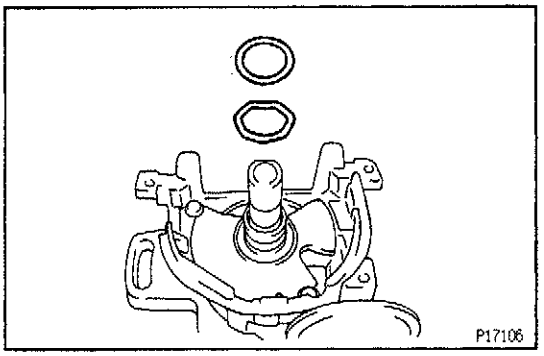


(b) Install the 2 screws.



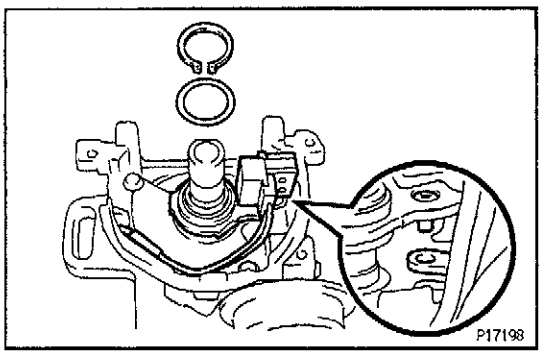
6. INSTALL VACUUM ADVANCER

(a) Install a new gasket to the advancer.
(b) Install the vacuum advancer with the screw.

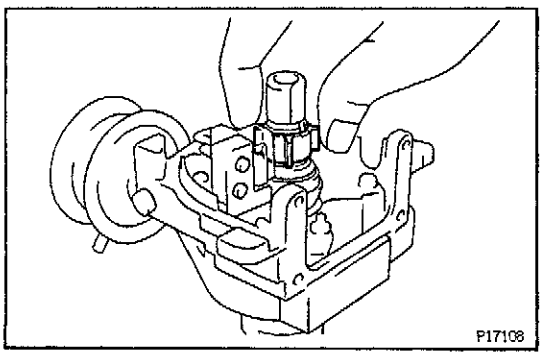


7. INSTALL SIGNAL GENERATOR (PICKUP COIL)

(a) Install the wave washer and washer.

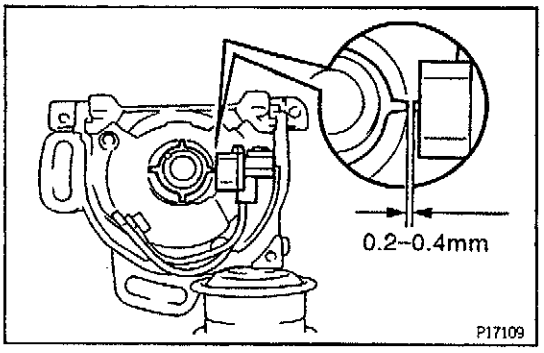


(b) Connect the advancer link to the signal generator pin and install the signal generator.
(c) Using needle—nose pliers, install the washer and snap ring.



8. INSTALL SIGNAL ROTOR

Push on the rotor with a new spring.



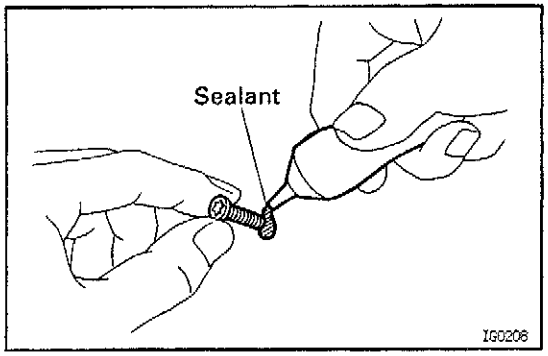
9. INSPECT AIR GAP

Using a thickness gauge, check the gap between the signal rotor and signal generator (pickup coil).

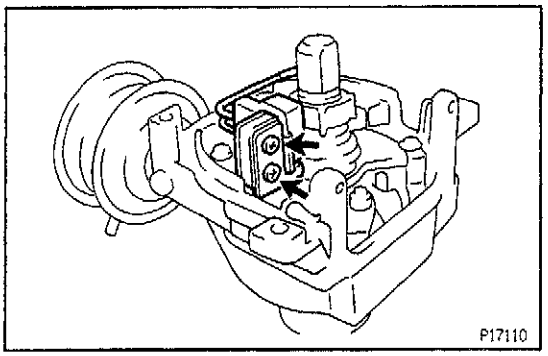
Air gap:

0.2 — 0.4 mm (0.008 — 0.016 in.)

If not within specification, replace the breaker plate with the signal generator(pickup coil).



IG



10. IF NECESSARY, REPLACE SIGNAL GENERATOR (PICKUP COIL)

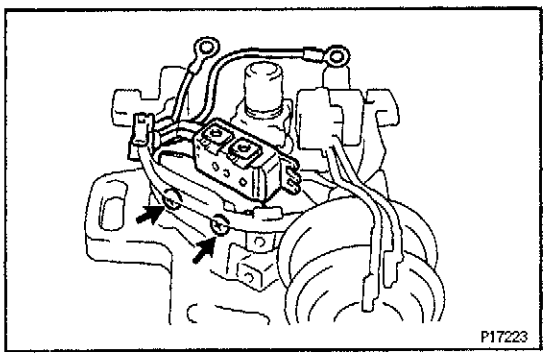
(a) Remove the signal rotor.
(See step 5 on page IG–11)

(b) Remove the signal generator (pickup coil)
(See step 6 on page IG–12)

(c) Clean a new pickup set screws and pickup screw holes of any oil and foreign particles.

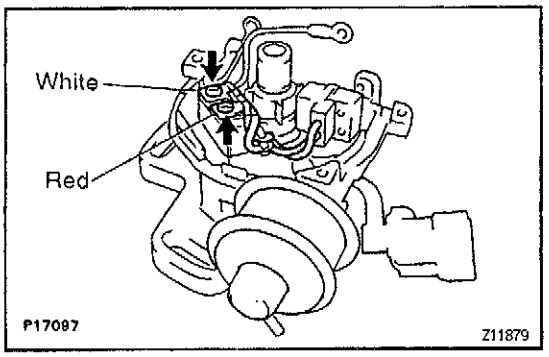
(d) Apply sealant to 3 or 5 mm (0.12 or 0.20 in.) of the screw end.
Sealant:
Part No. 08833–00070, adhesive 1324,
THREE BOND 1324 or Sealant:

(e) Using a torx driver, install the set screws and adjust the air gap.
HINT: After installing, do not run the engine for at least 30 min., or at high speed for at least 120 min.

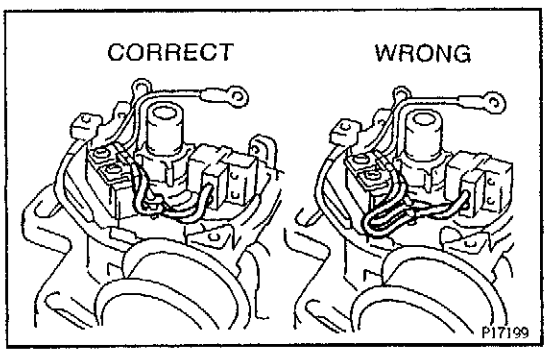


11. INSTALL IGNITER

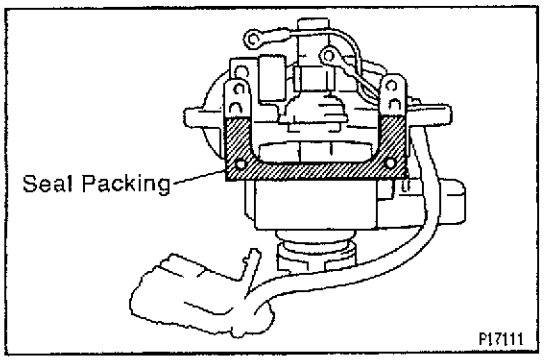
(a) Install the igniter with the 2 screws.



(b) Connect the 2 wires to the igniter with the 2 screws as shown in the illustration.



(c) Secure the pickup coil wires in the clips, allowing sufficient slack.
NOTICE: Be sure that the wires do not contact with signal rotor or distributor.



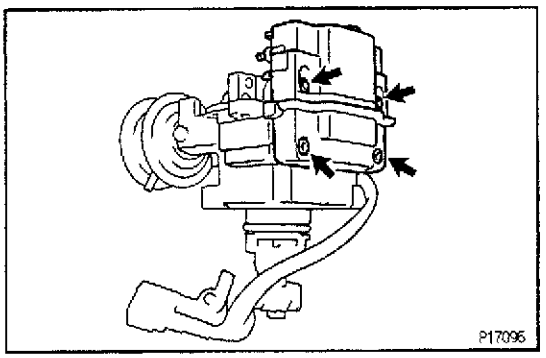
12. INSTALL IGNITION COIL

(a) Remove any old packing (FIPG) material.

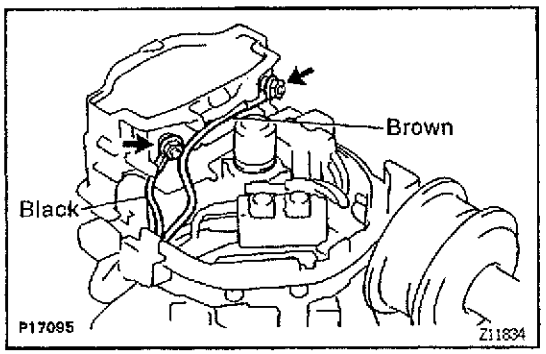
(b) Apply seal packing to the ignition coil installing surface of the housing as shown in the illustration.

Seal packing:

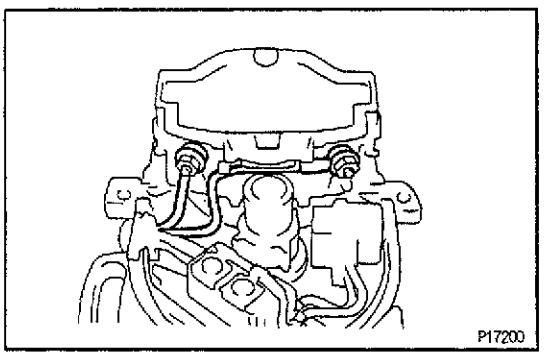
Part No. 08826–00080 or equivalent



(c) Install the ignition coil with the 4 screws.

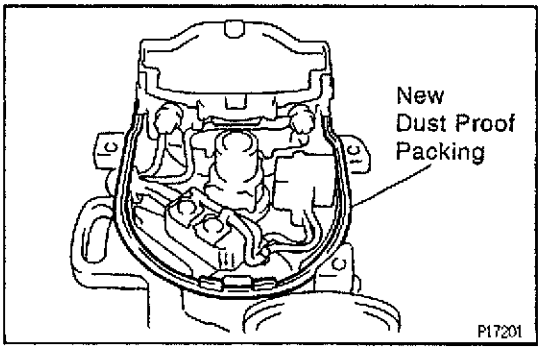


(d) Connect the 2 wires to the ignition coil terminals with the 2 nuts as shown in the illustration.



NOTICE:

- **When connecting the wires to the ignition coil, insert the wire properly into the groove found on the side of the ignition coil.**
- **Be sure the wires do not contact with signal rotor or distributor housing.**

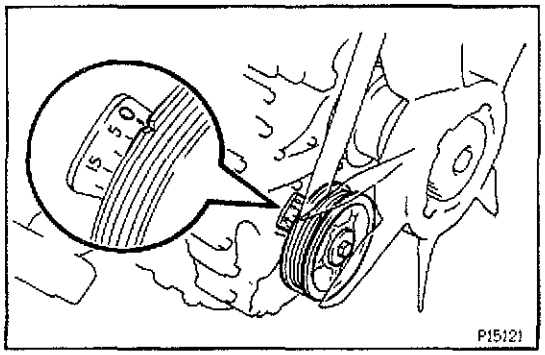


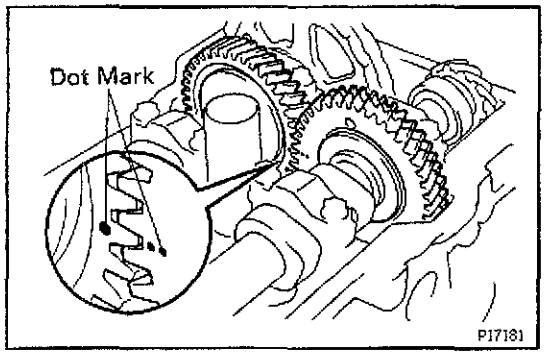
13. INSTALL IGNITION COIL DUST COVER

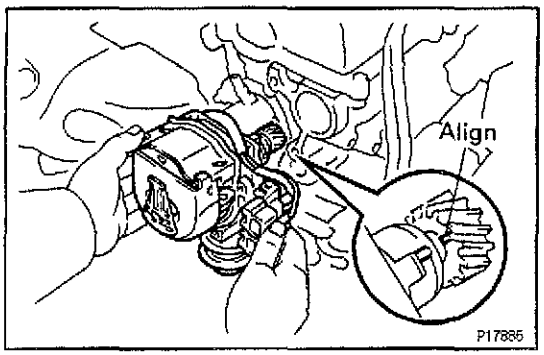
(a) Install a new dust proof packing to the distributor housing.

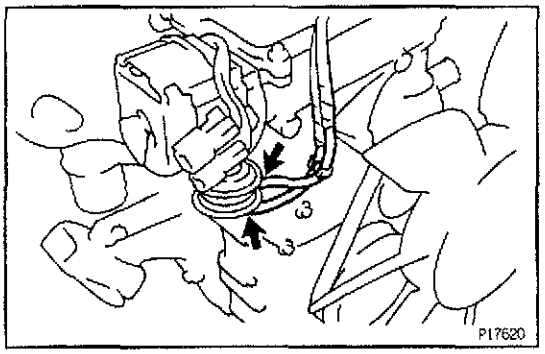
(b) Install the dust cover.

14. INSTALL ROTOR









DISTRIBUTOR INSTALLATION

1. **CHECK NO.1 CYLINDER TO TDC/COMPRESSION**
   If necessary, remove the cylinder head cover, and check the following conditions:
   - Turn the crankshaft pulley clockwise and align its groove with the timing mark "0" of the oil pump cover.
   - Verify that the timing marks with 1 and 2 dots are in a straight line on the cylinder head surface as shown in the illustration.

   If not, turn the crankshaft 1 revolution (360°) and align the mark as above.

2. **INSTALL DISTRIBUTOR**
   (a) *Install a new O–ring to the distributor.*
   HINT: Always use a new O–ring when installing the distributor.
   (b) Align the protrusion of the distributor housing with the groove on the driven gear.
   (c) Apply a light coat of engine oil on the O–ring.
   (d) Install the distributor with 2 bolts.
   Torque: 19 N·m (195 kgf·cm, 14 ft·lbf)

   (e) *Connect the 2 vacuum hoses.*
3. **INSTALL DISTRIBUTOR CAP**
   Install the distributor cap with the 3 bolts.
4. **RECONNECT HIGH–TENSION CORDS TO DISTRIBUTOR CAP**
5. **CONNECT DISTRIBUTOR CONNECTORS**
6. **CONNECT NEGATIVE (–) TERMINAL CABLE TO BATTERY**
7. **ADJUST IGNITION TIMING**
   (See ignition timing inspection in Engine Mechanical)