IGNITION TIMING INSPECTION

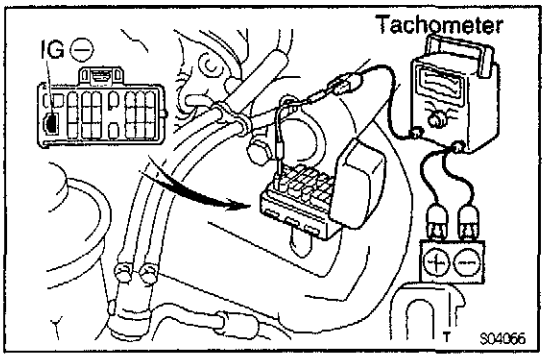
EG7BG–01

IGNITION TIMING INSPECTION

(3RZ–FE)

1. WARM UP ENGINE

Allow the engine to warm up to normal operating temperature.

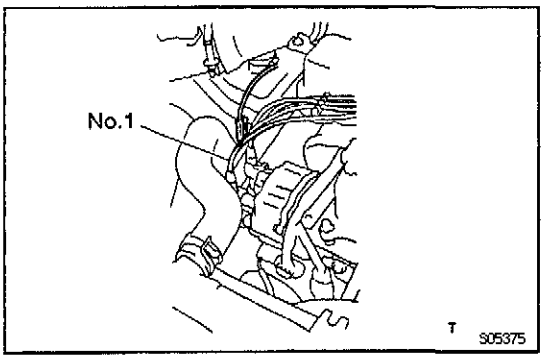


2. CONNECT TACHOMETER TO ENGINE

Connect the tester probe of a tachometer to terminal IG⊖ of the check connector.

NOTICE:

- **Never allow the tachometer terminal to touch ground as it could result in damage to the igniter *and/or* ignition coil.**
- **As some tachometers are not compatible with this ignition system, we recommend that you confirm the compatibility of your unit before use.**



3. CONNECT TIMING LIGHT TO ENGINE

Connect the tester probe of a timing light to the high –tension cord for No.1 cylinder.

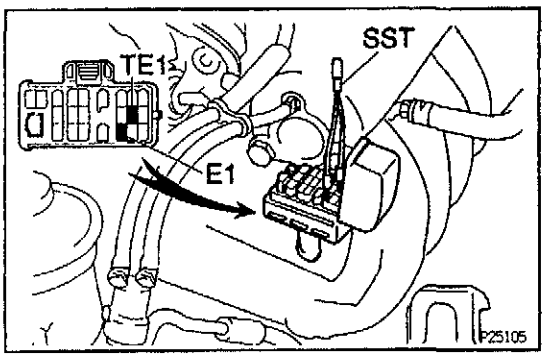
4. CHECK IDLE SPEED

(a) Race the engine speed at 2,500 rpm for approx. 90 seconds.

(b) Check the idle speed.

Idle speed:

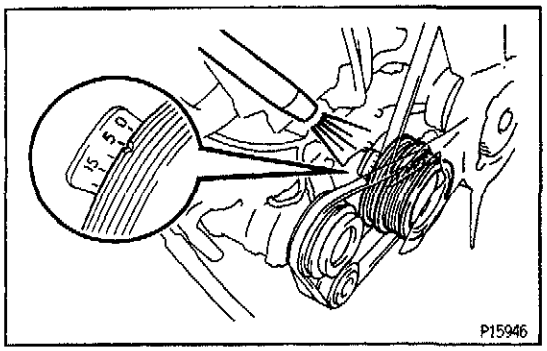
650 – 750 rpm



5. INSPECT IGNITION TIMING

(a) Using SST, connect terminals TE1 and E1 of the check connector.

SST 09843–18020



(b) Using a timing light, check the ignition timing.

Ignition timing:

3 – 7° BTDC @ idle

(Transmission in neutral position)

(c) Remove the SST from the check connector.

SST 09843–18020

6. DISCONNECT TIMING LIGHT FROM ENGINE

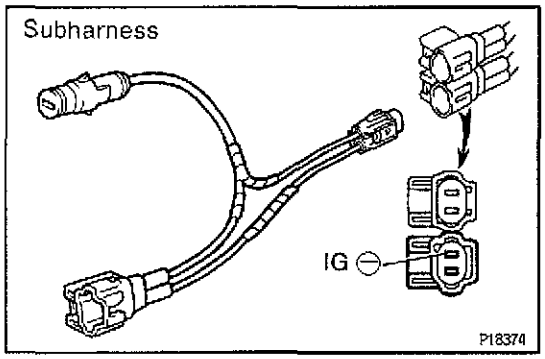
7. DISCONNECT TACHOMETER FROM ENGINE

IGNITION TIMING INSPECTION AND ADJUSTMENT (3RZ–F)

1. WARM UP ENGINE

Allow the engine to warm up to normal operating temperature.

EG

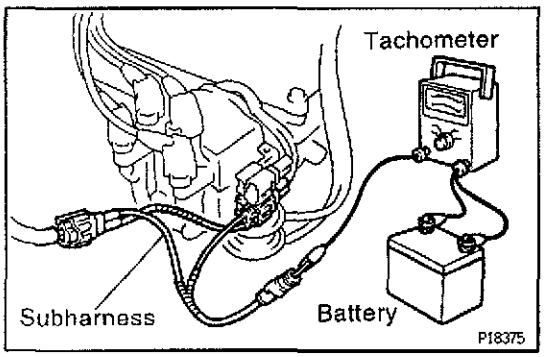


2. CONNECT TACHOMETER AND TIMING LIGHT

(a) Assemble the tachometer subharness using the following parts.

Subharness

Parts No.:
90980–11137,
82998–12440, 90980–11038, 82998–12430,
90980–10115, 82998–12020

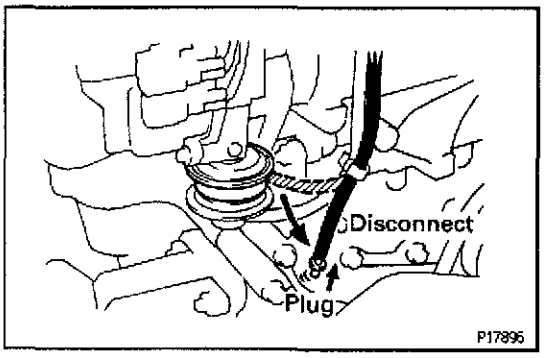


(b) Disconnect the distributor connector (for negative (–) terminal of ignition coil).
Then connect the subharness to the distributor.

(c) Connect the test probe of a tester to the subharness form the distributor.

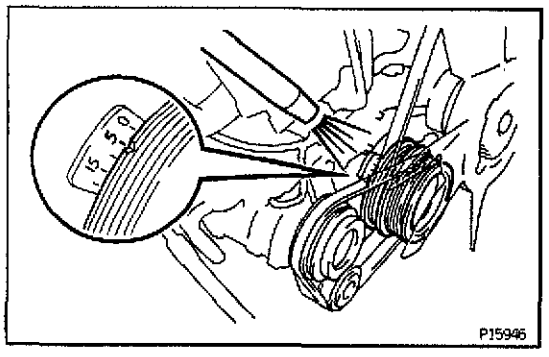
NOTICE:

- **NEVER allow the tachometer terminal to touch ground as it could result in damage to the igniter and/or ignition coil.**
- **As some tachometers are not compatible with this ignition system, we recommend that you confirm the compatibility of your unit before use.**



3. INSPECT AND ADJUST IGNITION TIMING

(a) Disconnect the vacuum hose from the sub vacuum advancer diaphragm and plug the hose.



(b) With the engine idling as specified, use a timing light to check the timing.

Ignition timing:

3 – 7° BTDC @ Max. 850 rpm