

IGNITION TIMING INSPECTION AND ADJUSTMENT

1. WARM UP ENGINE

Allow the engine to warm up to normal operating temperature.

2. CONNECT TOYOTA HAND-HELD TESTER OR OBD II SCAN TOOL

- Remove the fuse cover on the instrument panel.
- Connect the TOYOTA hand-held tester or OBD II scan tool to the DLC3.
- Please refer to the TOYOTA hand-held tester or OBD II scan tool operator's manual for further details.

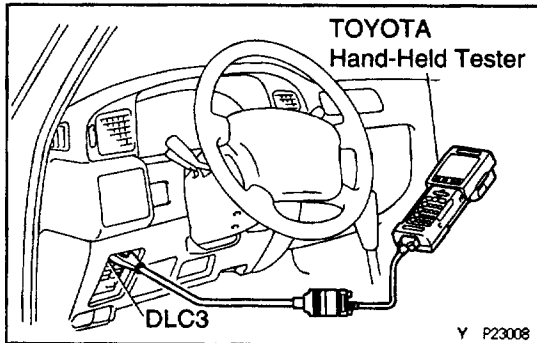
3. CONNECT TIMING LIGHT TO ENGINE

4. CHECK IDLE SPEED

- Race the engine speed at 2,500 rpm for approx. 90 seconds.
- Check the idle speed.

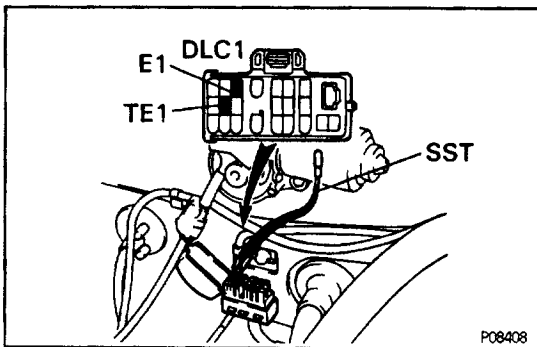
Idle speed:

650 ± 50 rpm



5. INSPECT AND ADJUST IGNITION TIMING

- Using SST, connect terminals TE1 and E1 of the DLC 1. SST 09843-18020

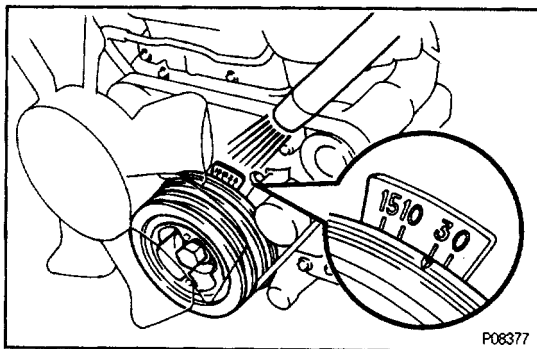


- Using a timing light, check the ignition timing.

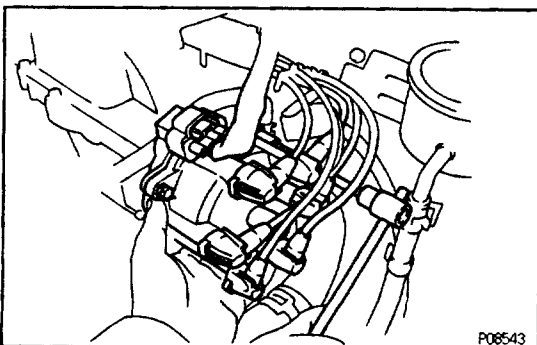
Ignition timing:

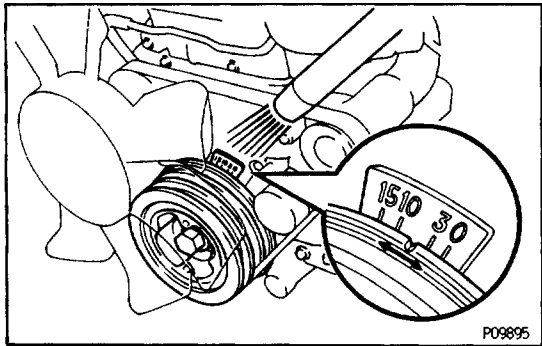
3° BTDC @ idle

(Transmission in neutral position and A/C OFF)



- Loosen the hold-down bolt, and adjust by turning the distributor.
- Tighten the hold-down bolt, and recheck the ignition timing. **Torque: 18 N·m (180 kgf·cm, 13 ft·lbf)**
- Remove the SST from the DLC1. SST 09843-18020





6. FURTHER CHECK IGNITION TIMING

Ignition timing:

2 – 13° BTDC @ idle

(Transmission in neutral position and A/C OFF)

HINT: The timing mark moves in a range between 2° and 13°.

7. DISCONNECT TIMING LIGHT FROM ENGINE

8. DISCONNECT TOYOTA HAND-HELD TESTER OR OBD II SCAN TOOL

IDLE SPEED INSPECTION

1. INITIAL CONDITIONS

- (a) Engine at normal operating temperature
- (b) Air cleaner installed
- (c) All pipes and hoses of air induction system connected
- (d) All accessories switched OFF
- (e) All vacuum lines properly connected

HINT: All vacuum hoses for EGR system, etc. should be properly connected.

- (f) SFI system wiring connectors fully plugged
- (g) Ignition timing set correctly
- (h) Transmission in neutral position
- (i) Air conditioning switched OFF

2. CONNECT TOYOTA HAND-HELD TESTER OR OBD II SCAN TOOL

(See step 2 in ignition timing inspection and adjustment)

3. INSPECT IDLE SPEED

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

Idle speed:

650 ± 50 rpm

If the idle speed is not as specified, check the IAC valve.

4. DISCONNECT TOYOTA HAND-HELD TESTER OR OBD II SCAN TOOL