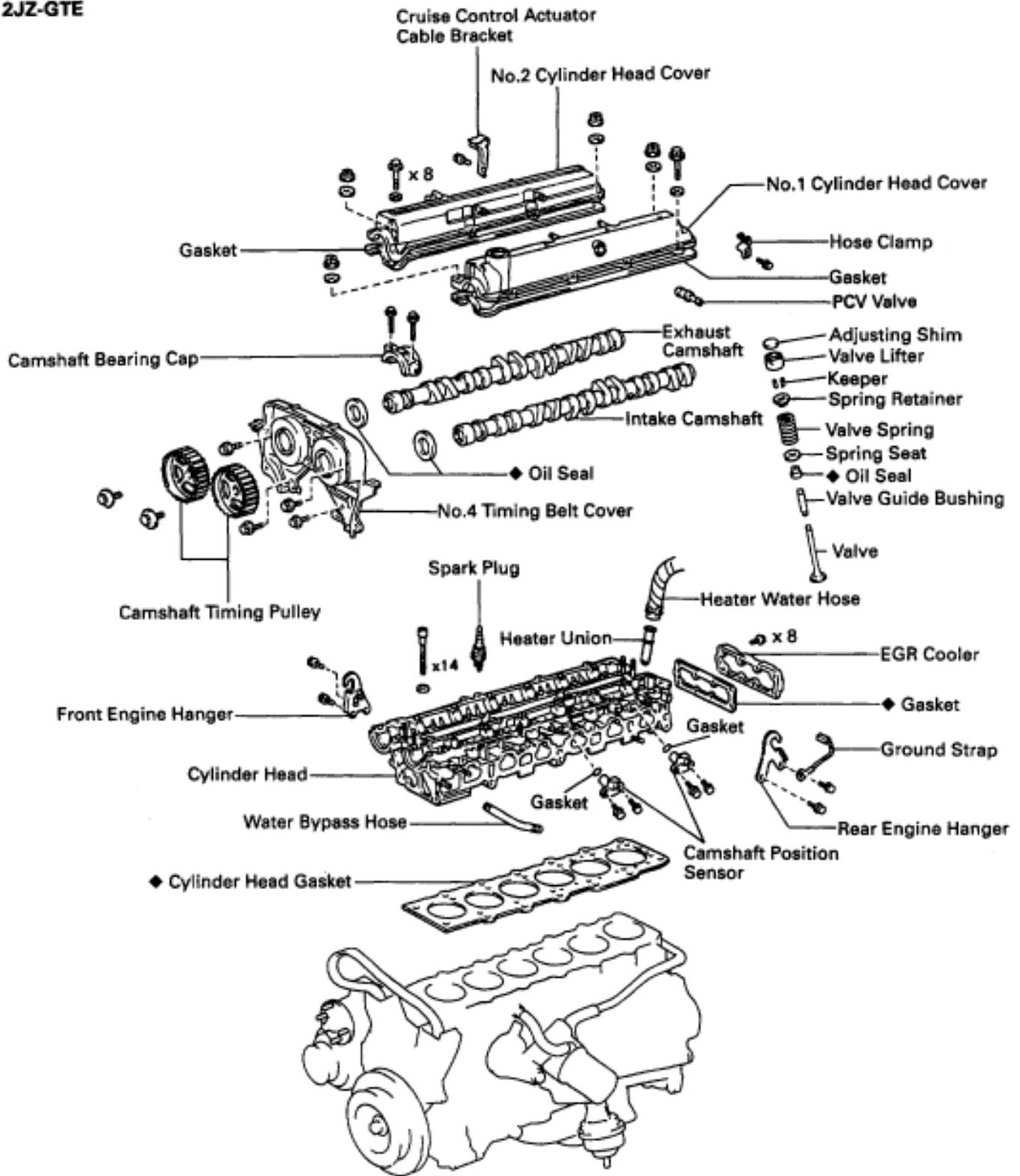
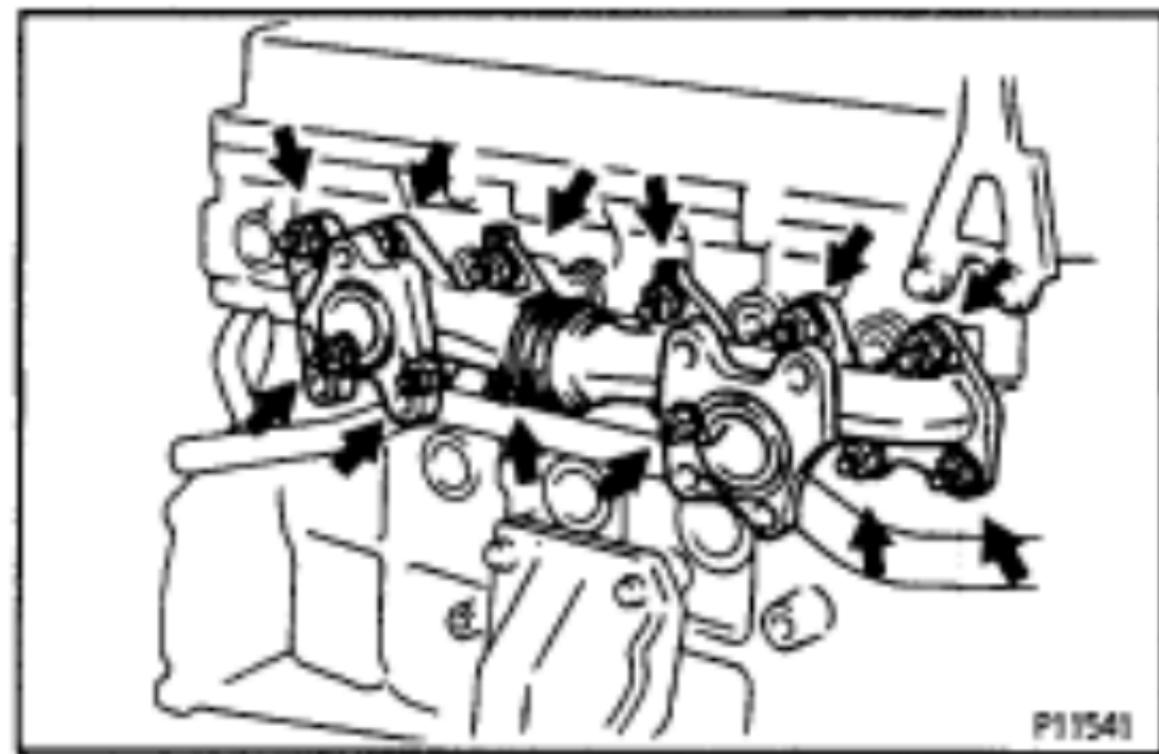


2JZ-GTE

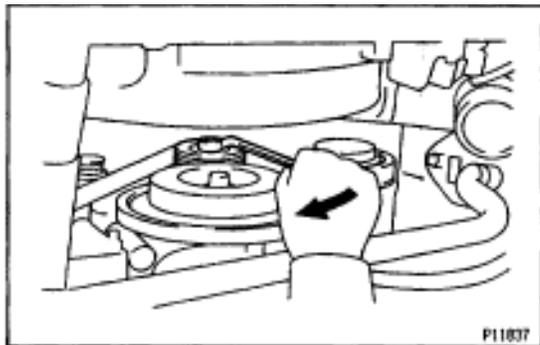


◆ Non-reusable part



## **CYLINDER HEAD REMOVAL (2JZ-GTE)**

- 1. REMOVE TURBOCHARGER**  
(See turbocharger removal in Turbocharger System)
- 2. REMOVE EXHAUST MANIFOLD**  
Remove the 12 nuts, exhaust manifold and 2 gaskets.
- 3. M/T:**  
**REMOVE DRIVE BELT TENSIONER DAMPER**  
(See step 2 in timing belt removal)



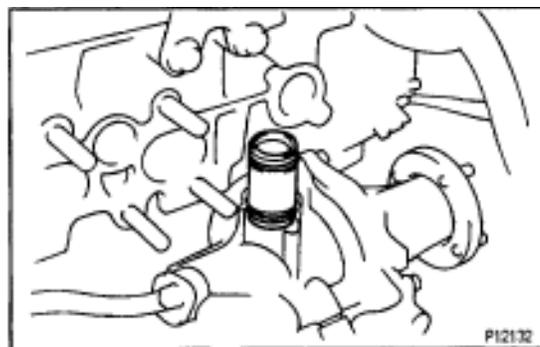
#### 4. REMOVE DRIVE BELT

Loosen the drive belt tension by turning the drive belt tensioner clockwise, and remove the drive belt.

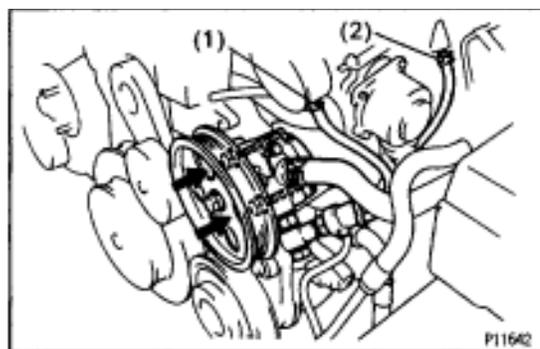


#### 5. REMOVE WATER OUTLET AND NO.1 WATER BYPASS PIPE

- (a) Disconnect the upper radiator hose from the water outlet.
- (b) Disconnect the ECT sensor and sender gauge connectors.
- (c) Remove the 2 bolts, water outlet and gasket.

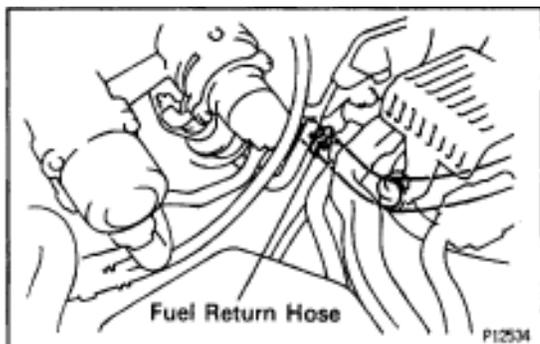


- (d) Remove the No.1 water bypass pipe and 2 O-rings.



#### 6. DISCONNECT PS PUMP WITHOUT DISCONNECTING HOSES

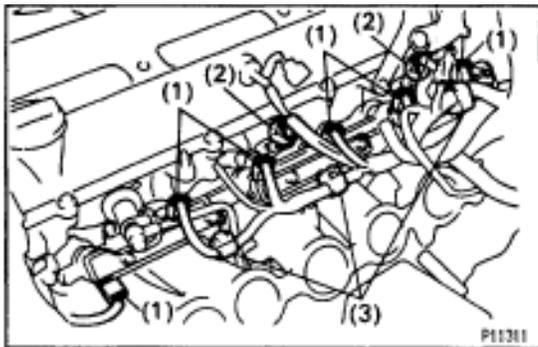
- (a) Disconnect these hoses:
  - (1) Air hose from throttle body
  - (2) Air hose from air intake chamber
- (b) Remove the 2 bolts, and disconnect the pump housing from the pump bracket.  
HINT: Put aside the pump housing, and suspend it securely.



#### 7. DISCONNECT FUEL RETURN HOSE

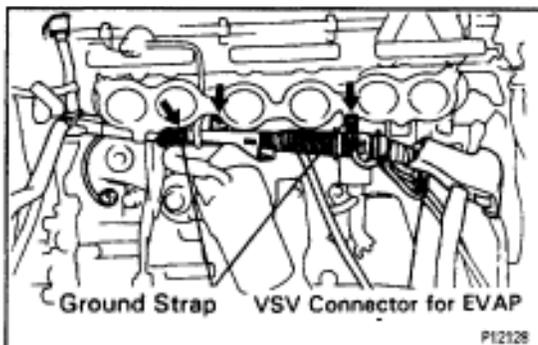
Disconnect the fuel return hose from the fuel return pipe. Plug the hose end.

#### 8. REMOVE AIR INTAKE CHAMBER ASSEMBLY (See injector removal in SFI System)



## 9. DISCONNECT ENGINE WIRE

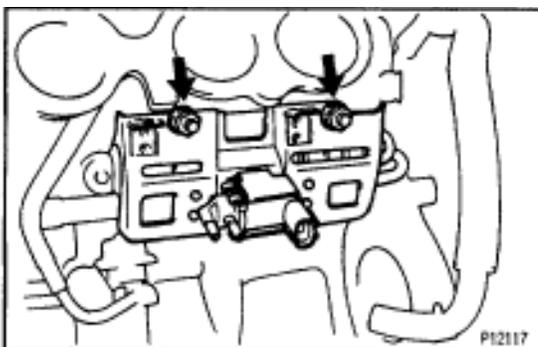
- (a) Disconnect these connectors and clamps:
- (1) 6 injectors connectors
  - (2) 2 camshaft position sensor connectors
  - (3) 3 engine wire clamps from injector holders



- (4) VSV connector for EVAP
- (b) Remove the 2 bolts, and disconnect the 2 ground straps from the intake manifold.
- (c) Remove the nut, and disconnect the engine wire protector from the intake manifold.

## 10. REMOVE STARTER

(See starter removal in Starting System)

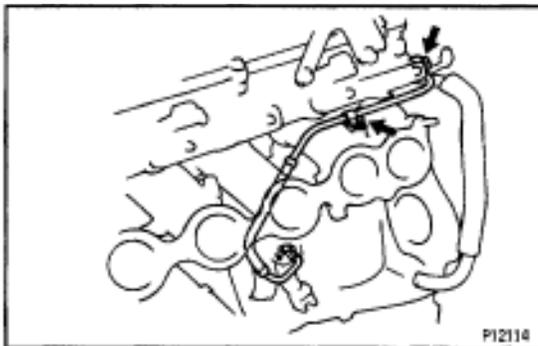


## 11. REMOVE PRESSURE TANK AND VSV ASSEMBLY

- (a) Disconnect the 2 vacuum hoses from the pressure tank.
- (b) Remove the 2 nuts and pressure tank and VSV assembly.

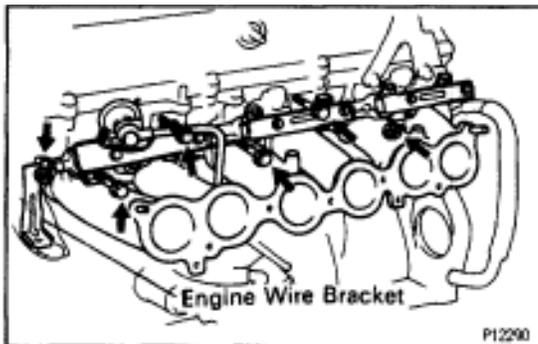
## 12. REMOVE FUEL PRESSURE PULSATION DAMPER

(See step 2 in fuel pressure pulsation damper in SFI System)



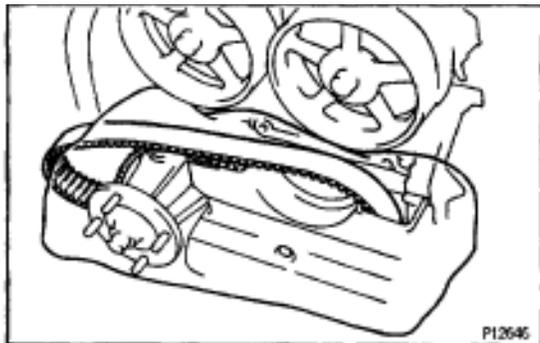
## 13. REMOVE FUEL INLET PIPE

Remove the union bolt, 2 gaskets, clamp bolt and fuel inlet pipe.



## 14. REMOVE INTAKE MANIFOLD AND DELIVERY PIPE ASSEMBLY

Remove the 4 bolts, 2 nuts, engine wire bracket, the intake manifold, delivery pipe assembly and gasket.



### 15. REMOVE TIMING BELT FROM CAMSHAFT TIMING PULLEYS

(See steps 5 to 8 in timing belt removal)

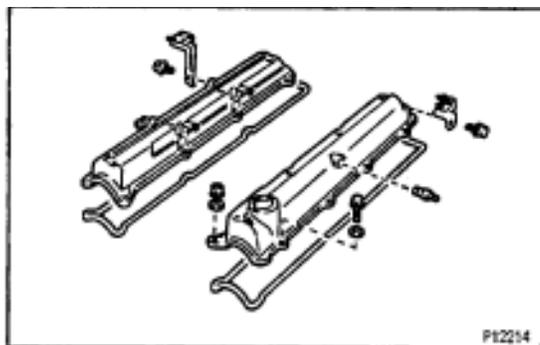
#### NOTICE:

- Support the timing belt, so that the meshing of the crankshaft timing pulley and timing belt does not shift.
- Be careful not to drop anything inside the timing belt cover.
- Do not allow the timing belt to come into contact with oil, water or dust.

### 16. REMOVE IGNITION COILS ASSEMBLIES

(See steps 2 to 5 in ignition coils removal in Ignition System)

### 17. REMOVE SPARK PLUGS



### 18. REMOVE NO.1 AND NO.2 CYLINDER HEAD COVERS

- Remove the 2 bolts, cruise control actuator cable bracket and IAC valve pipe clamp.
- Remove the PCV valve.
- Remove the 6 bolts, 2 nuts, 8 seal washers and No.1 cylinder head cover and gasket.
- Remove the 6 bolts, 2 nuts, 8 seal washers and No.2 cylinder head cover and gasket.

### 19. REMOVE CAMSHAFT TIMING PULLEYS

(See step 34 cylinder head removal (2JZ-GE))

### 20. REMOVE NO.4 TIMING BELT COVER

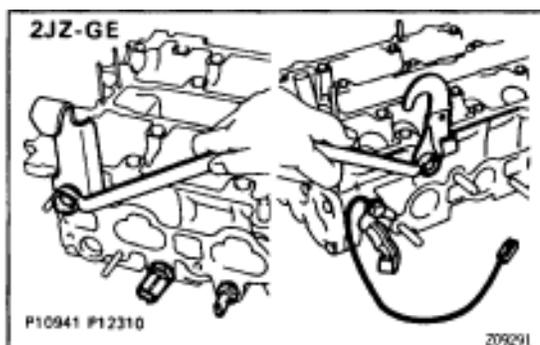
(See step 35 cylinder head removal (2JZ-GE))

### 21. REMOVE CAMSHAFTS

(See step 36 cylinder head removal (2JZ-GE))

### 22. REMOVE CYLINDER HEAD

(See step 37 cylinder head removal (2JZ-GE))



## CYLINDER HEAD DISASSEMBLY

- 2JZ-GE:  
REMOVE ENGINE HANGERS
- 2JZ-GE:  
REMOVE ECT SENSOR AND SENDER GAUGE
- 2JZ-GE:  
REMOVE THROTTLE CABLE BRACKET AND GROUND STRAP