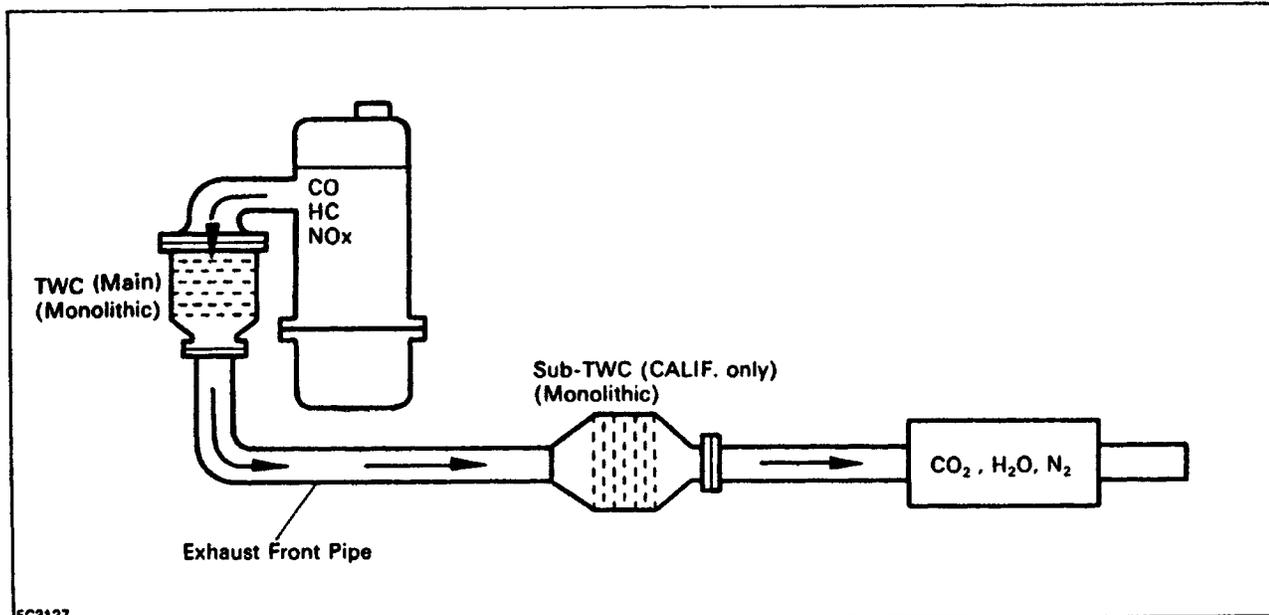


THREE-WAY CATALYST (TWC) SYSTEM

80080-02



EC3127

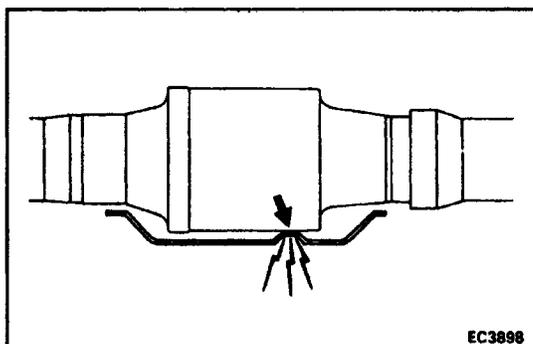
To reduce CO, HC and NOx emissions, they are oxidized, reduced and converted to carbon dioxide (CO₂), water (H₂O) and nitrogen (N₂) by the catalyst.

Exhaust Port	TWC (Main)	Sub-TWC (CALIF. only)	Exhaust Gas
CO HC NOx	OXIDATION AND REDUCTION	OXIDATION AND REDUCTION	CO ₂ H ₂ O N ₂

V01005

EXHAUST PIPE ASSEMBLY INSPECTION

1. CHECK CONNECTIONS FOR LOOSENESS OR DAMAGE
2. CHECK CLAMPS FOR WEAKNESS, CRACKS OR DAMAGE



EC3898

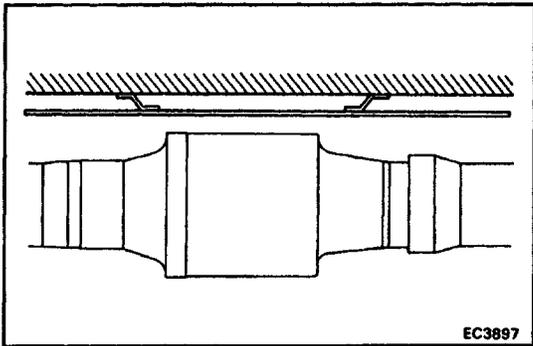
SUB-TWC INSPECTION (CALIF. only)

INSPECT FOR DENTS OR DAMAGE

If any part of protector is damaged or dented to the extent that it contacts the sub-TWC, repair or replace it.

80080-02

50090-02

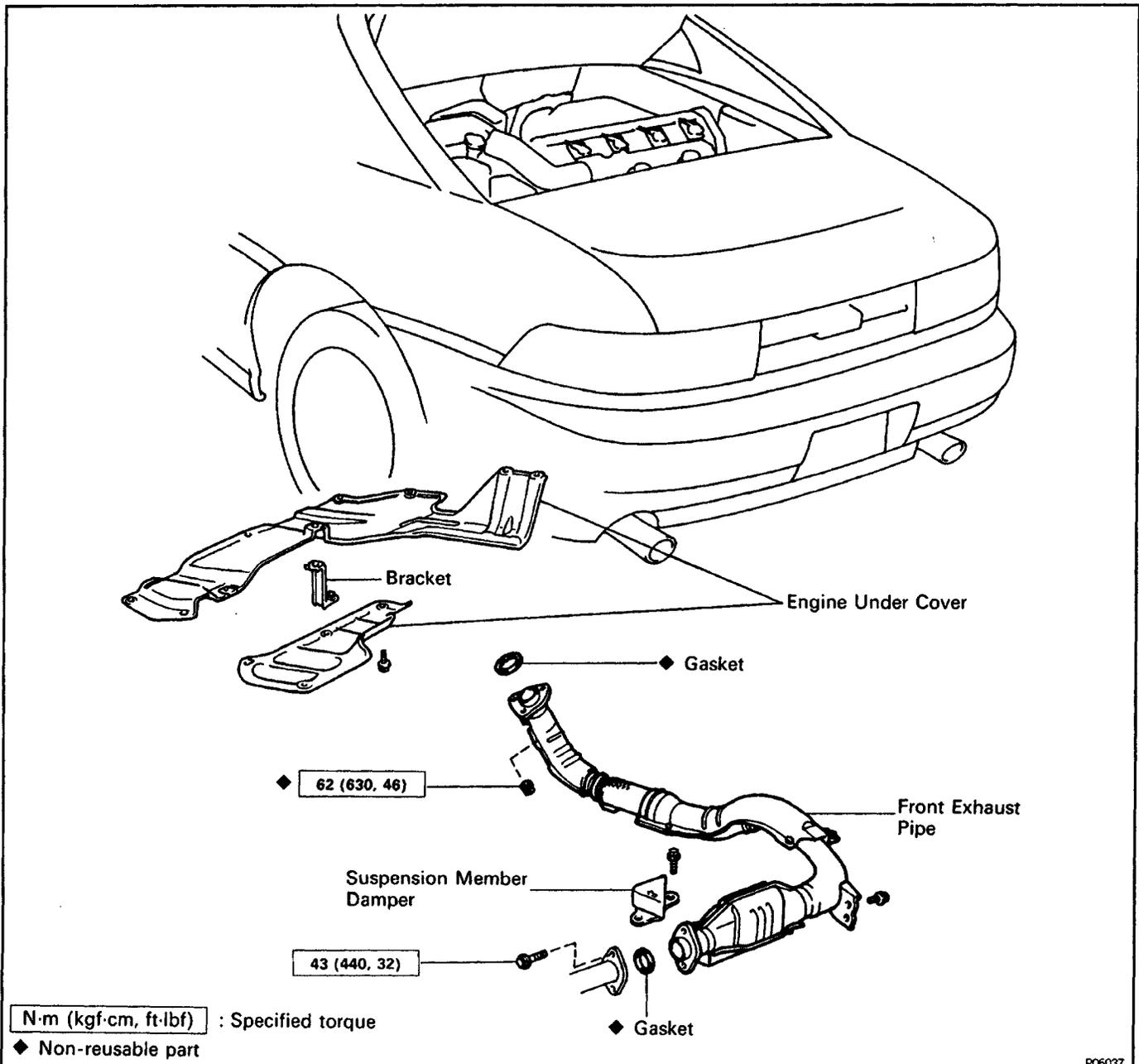


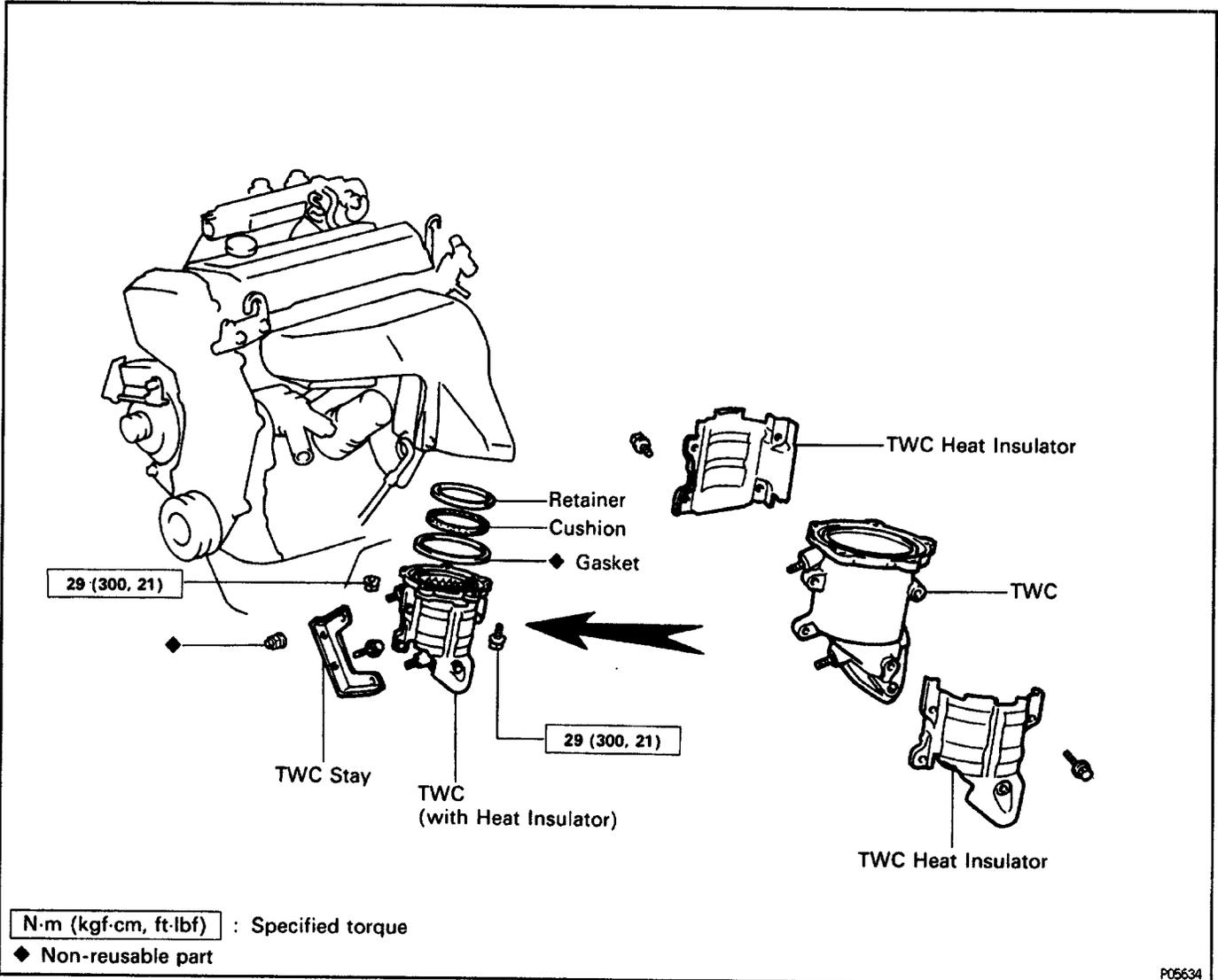
SUB-TWC HEAT INSULATOR INSPECTION (CALIF. only)

1. INSPECT HEAT INSULATOR FOR DAMAGE
2. INSPECT FOR ADEQUATE CLEARANCE BETWEEN CATALYTIC CONVERTER AND HEAT INSULATOR

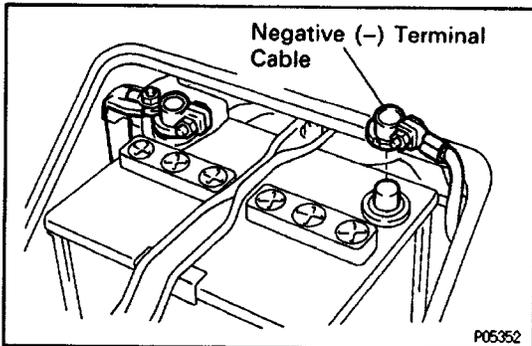
50091-02

COMPONENTS FOR TWC (MAIN) REMOVAL AND INSTALLATION





P05634



TWC (MAIN) REPLACEMENT

8000N-02

(See Components for Main (TWC) Removal and Installation)

CAUTION: Check that the TWC is cool.

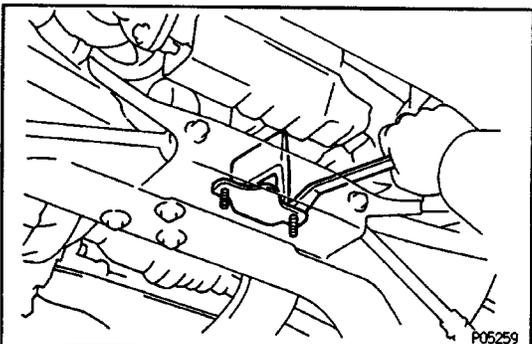
1. DISCONNECT CABLE FROM NEGATIVE TERMINAL OF BATTERY

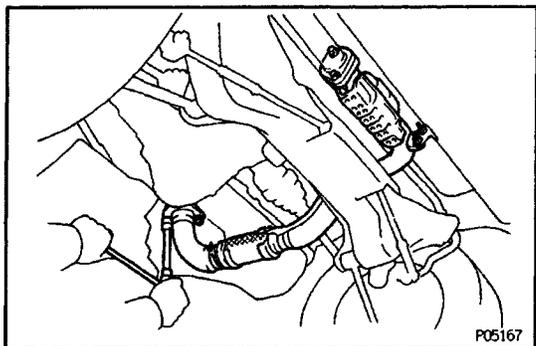
CAUTION: Turn the ignition switch to "LOCK". Disconnect the negative terminal from the battery. Wait at least 20 seconds before proceeding with work.

2. REMOVE ENGINE UNDER COVERS
3. REMOVE FRONT EXHAUST PIPE

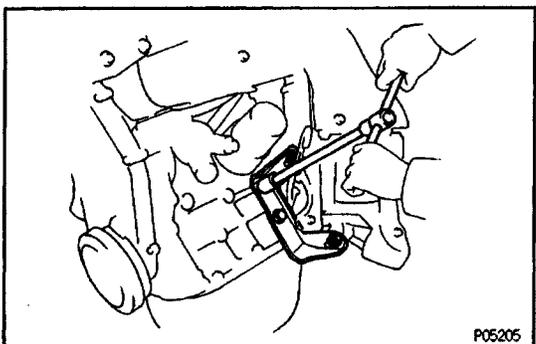
(a) (CALIF. only)

Remove the two bolts and damper.



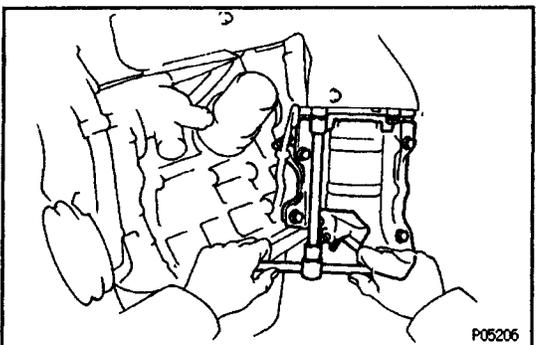


- (b) Remove the two bolts holding the front exhaust pipe to the tailpipe bracket.
- (c) Remove the two bolts holding the front exhaust pipe to the tailpipe.
- (d) Using a 14 mm deep socket wrench, remove the three nuts.
- (e) Remove the front exhaust pipe and two gaskets.

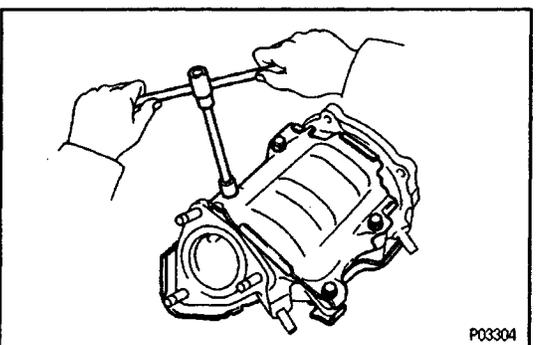


4. REMOVE TWC

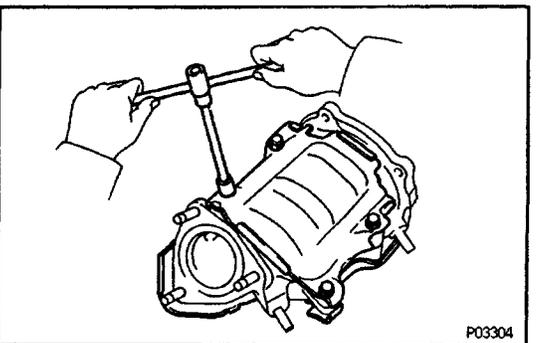
- (a) Remove the oxygen sensor and sub-oxygen sensor (CALIF. only) from the TWC.
- (b) Remove the two bolts, two nuts and TWC stay.



- (c) Remove the three bolts, two nuts, TWC, gasket, retainer and cushion.

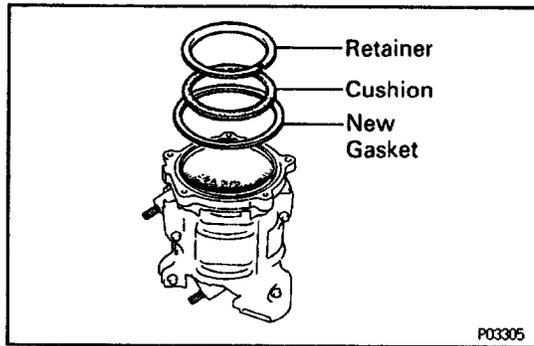


- (d) Remove the eight bolts and two heat insulators from the TWC.

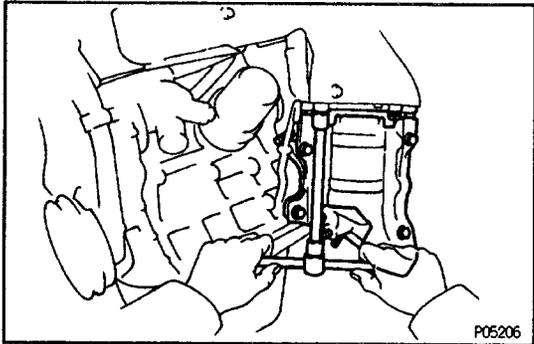


5. REINSTALL TWC

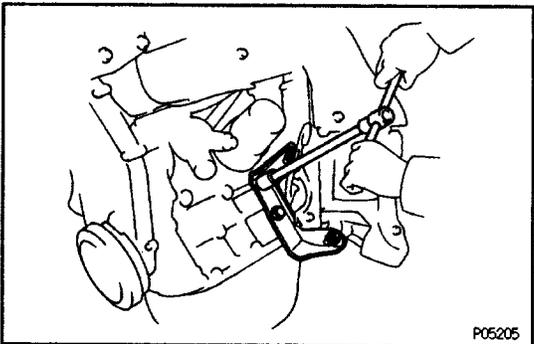
- (a) Install the two heat insulators to a new TWC with the eight bolts.



- (b) Place the cushion, retainer and a new gasket on the TWC.



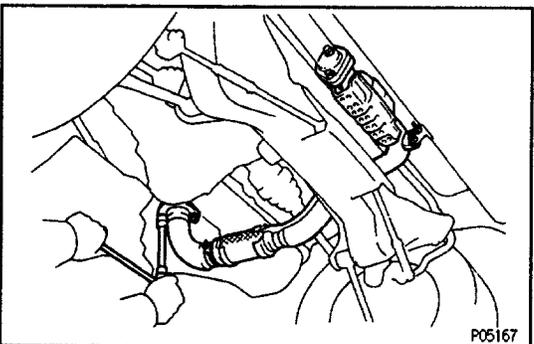
- (c) Install the TWC with the three bolts and two nuts.
Torque: 29 N-m (300 kgf-cm, 21 ft-lbf)



- (d) Install the TWC stay with the two bolts and two new nuts.

Torque: 42 N-m (425 kgf-cm, 31 ft-lbf)

- (e) Install the oxygen sensor and sub-oxygen sensor (CALIF. only) to the TWC.



6. REINSTALL FRONT EXHAUST PIPE

- (a) Place two new gaskets to the front and rear of the front exhaust pipe.

- (b) Using a 14 mm deep socket wrench, install the front exhaust pipe with three new nuts.

Torque: 62 N-m (630 kgf-cm, 46 ft-lbf)

- (c) Install the two bolts holding the front exhaust pipe to the tailpipe.

Torque: 43 N-m (440 kgf-cm, 32 ft-lbf)

- (d) Install the two bolts holding the front exhaust pipe bracket to the tailpipe bracket.

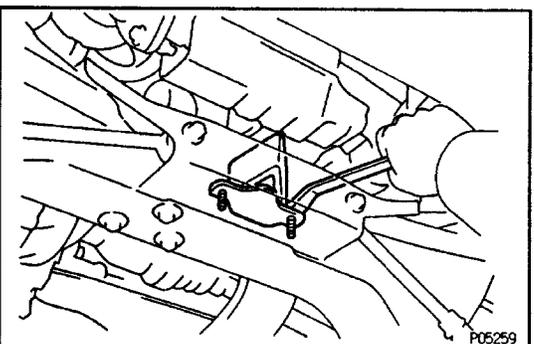
Torque: 19 N-m (190 kgf-cm, 14 ft-lbf)

- (e) Install the damper with the two bolts.

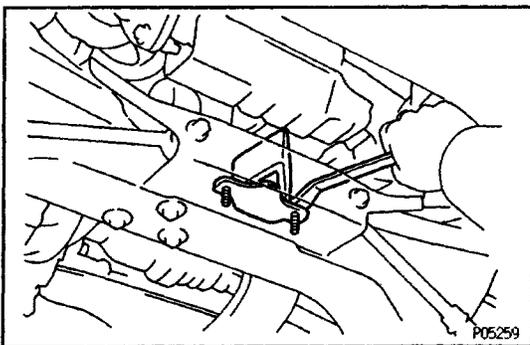
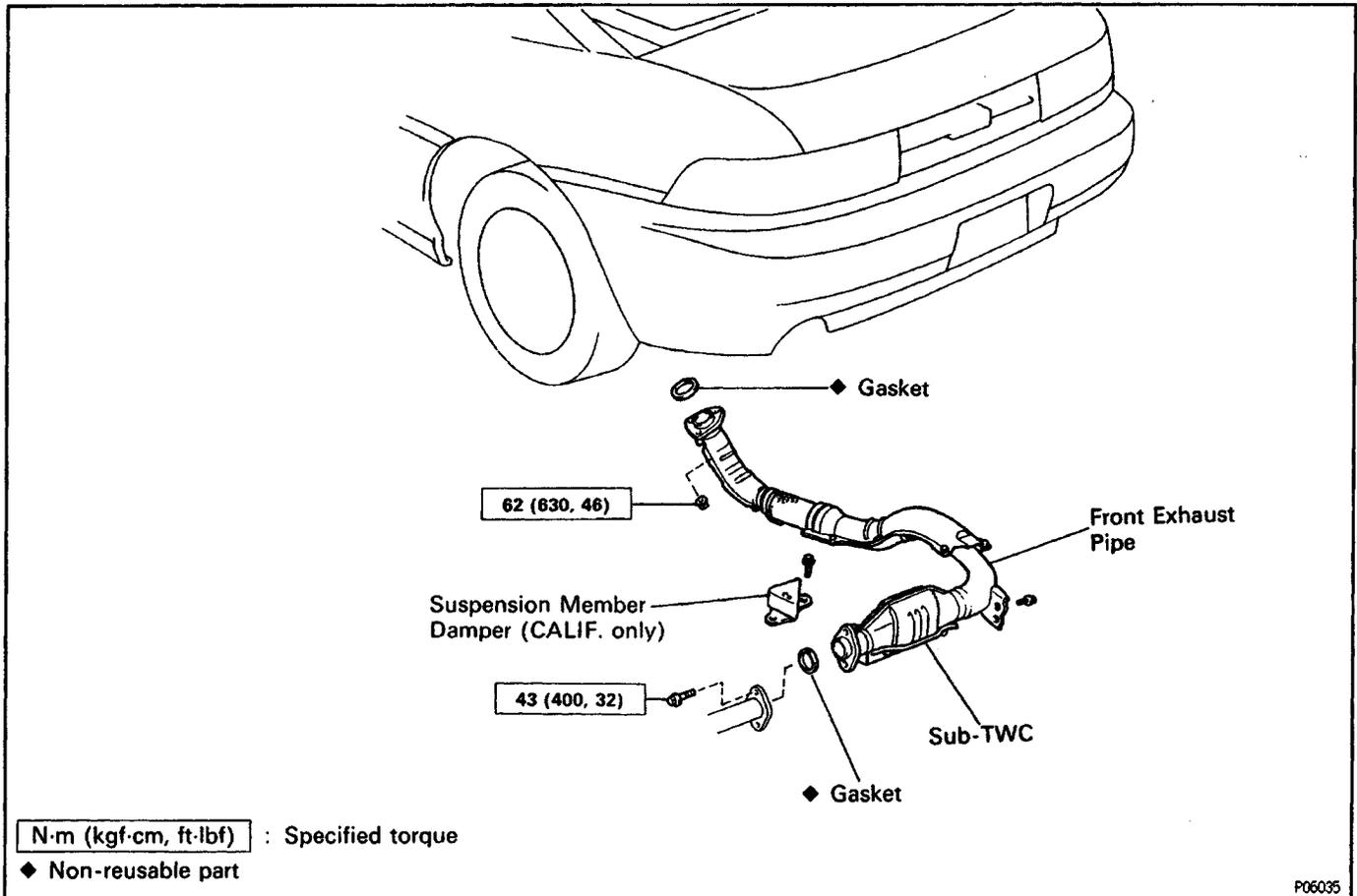
Torque: 21 N-m (210 kgf-cm, 15 ft-lbf)

7. REINSTALL ENGINE UNDER COVERS

8. RECONNECT CABLE TO NEGATIVE TERMINAL OF BATTERY



COMPONENTS FOR SUB-TWC REMOVAL AND INSTALLATION (CALIF. only)



SUB-TWC REPLACEMENT (CALIF. only)

(See Components for Sub-TWC Removal and Installation (CALIF. only))

CAUTION: Check that the sub-TWC is cool.

1. REMOVE FRONT EXHAUST PIPE (SUB-TWC)

(a) (CALIF. only)

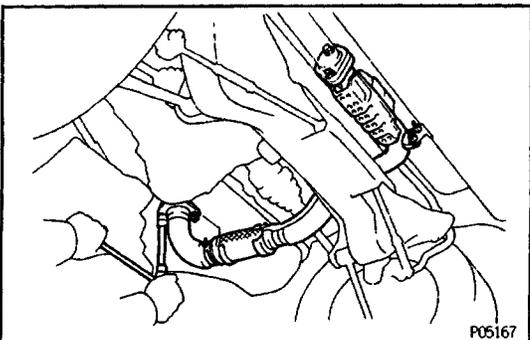
Remove the two bolts and damper.

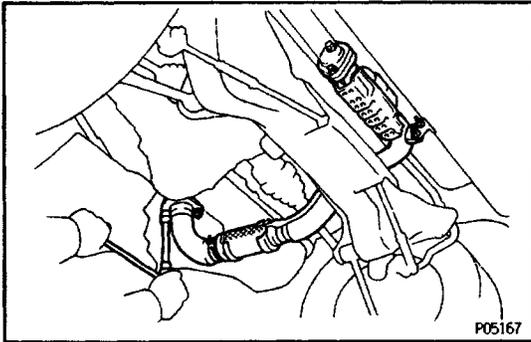
(b) Remove the two bolts holding the front exhaust pipe to the tailpipe bracket.

(c) Remove the two bolts holding the front exhaust pipe to the tailpipe.

(d) Using a 14 mm deep socket wrench, remove the three nuts.

(e) Remove the front exhaust pipe and two gaskets.





2. REINSTALL FRONT EXHAUST PIPE (SUB-TWC)

- (a) Place two new gaskets to the front and rear of the front exhaust pipe.
- (b) Using a 14 mm deep socket wrench, install the front exhaust pipe with three new nuts.

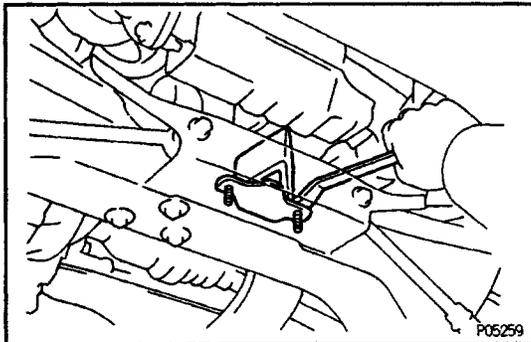
Torque: 62 N-m (630 kgf-cm, 46 ft-lbf)

- (c) Install the two bolts holding the front exhaust pipe to the tailpipe.

Torque: 43 N-m (440 kgf-cm, 32 ft-lbf)

- (d) Install the two bolts holding the front exhaust pipe bracket to the tailpipe bracket.

Torque: 19 N-m (190 kgf-cm, 14 ft-lbf)



- (e) (CALIF. only)

Install the damper with the two bolts.

Torque: 21 N-m (210 kgf-cm, 15 ft-lbf)