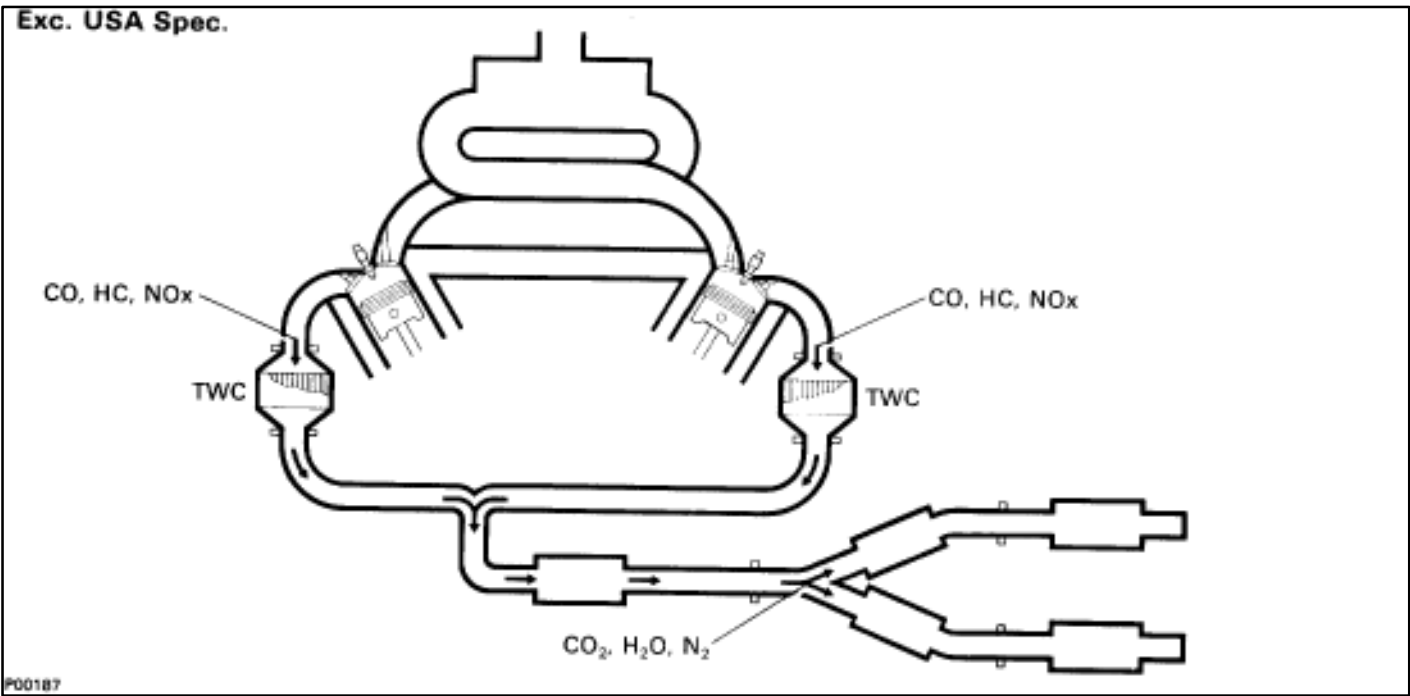
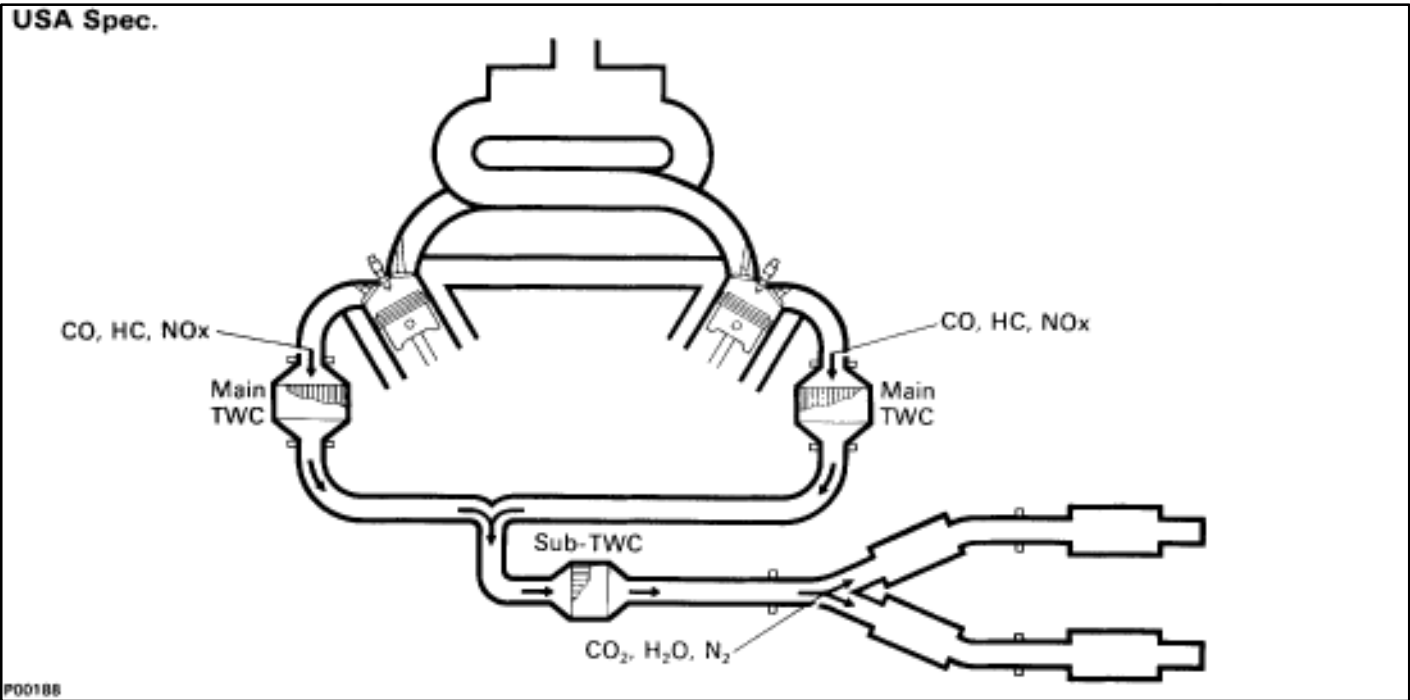


THREE-WAY CATALYST (TWC) SYSTEM

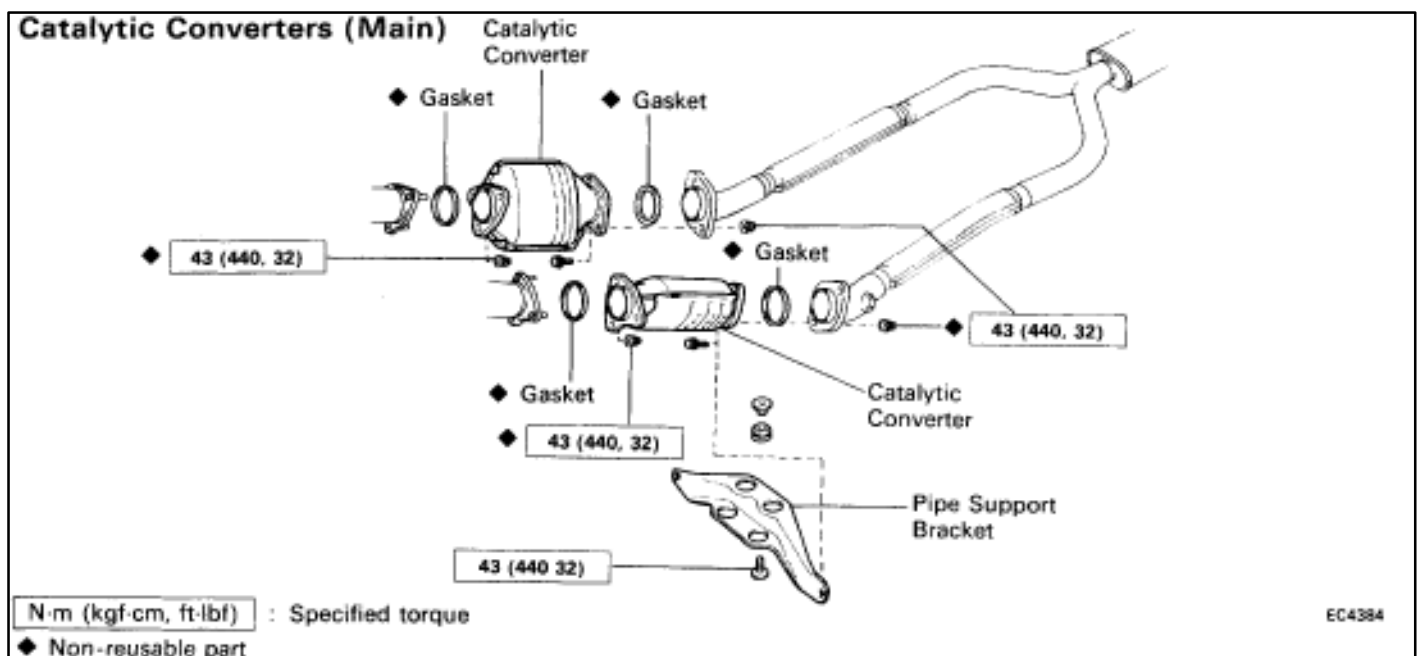
DESCRIPTION

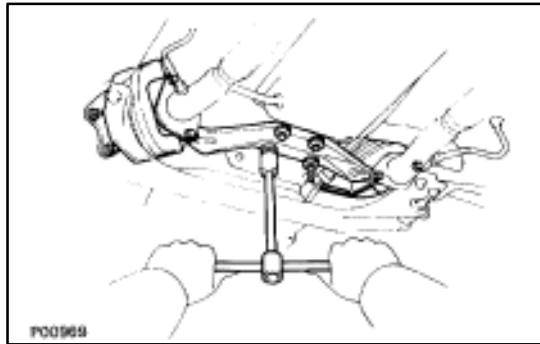
To reduce HC, CO and NO_x emissions, they are oxidized, reduced and converted to nitrogen (N₂), carbon dioxide (CO₂) and water (H₂O) by the catalyst.

OPERATION

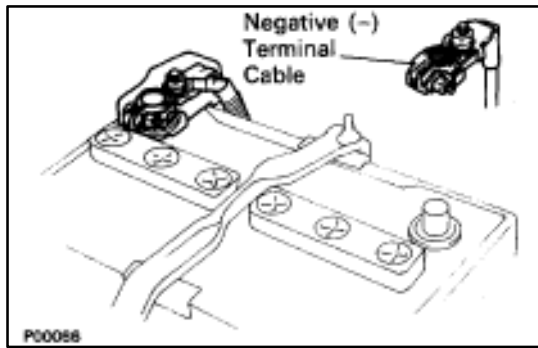


Exhaust Port		TWC (Main)		Sub-TWC (USA Spec. only)		Exhaust Gas
CO HC NO _x	➡	OXIDATION AND REDUCTION	➡	OXIDATION AND REDUCTION	➡	CO ₂ H ₂ O N ₂



[illegible]

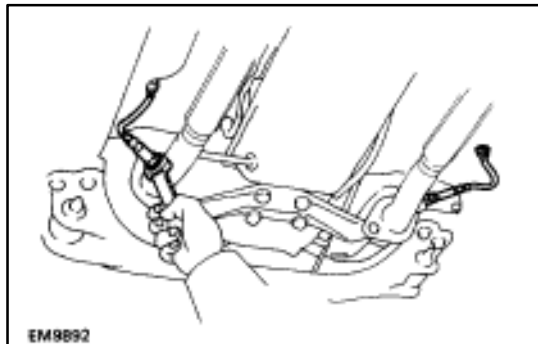
Torque: 43 N·m (440 kgf·cm, 32 ft·lbf)



(Sub-Catalytic Converter (USA Spec. only)

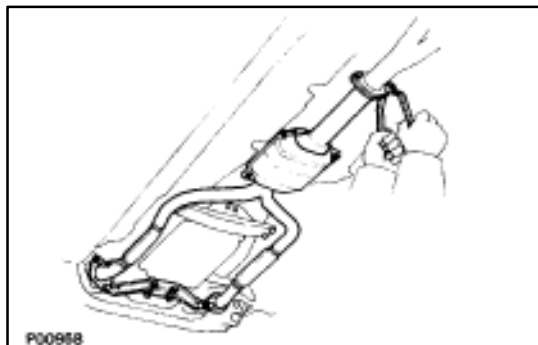
1. DISCONNECT CABLE FROM NEGATIVE TERMINAL OF BATTERY

CAUTION: Work must be started after, approx. 20 seconds or longer from the time the ignition switch is turned to the "LOCK" position and the negative (-) terminal cable is disconnected from the battery.



2. DISCONNECT SUB-OXYGEN SENSOR CONNECTORS

Disconnect the grommet from the floor, and disconnect the sub-oxygen sensor from the front exhaust pipe.



3. REMOVE FRONT EXHAUST PIPE (SUB-CATALYTIC CONVERTER)

- Remove the four bolts holding the front exhaust pipe to the transmission.
- Remove the two bolts and nuts holding the front exhaust pipe to the center exhaust pipe.
- Remove the four bolts and nuts holding the front pipe to the catalytic converter, and remove the pipe support bracket, front pipe and three gaskets.

4. REINSTALL FRONT EXHAUST PIPE (SUB-CATALYTIC CONVERTER)

- Temporarily install the pipe support bracket to the transmission with the four bolts.
- Install three new gaskets, the front exhaust pipe and pipe support bracket with the six bolts and new nuts.

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

- Tighten the four bolts holding the pipe support bracket to the transmission.

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

5. RECONNECT SUB-OXYGEN SENSOR CONNECTORS

- Install the two sub-oxygen sensors to the front exhaust pipe.

Torque: 44 N·m (450 kgf·cm, 33 ft·lbf)

HINT:

- Before installing the sub-oxygen sensor, twist the sensor wire counterclockwise $3\frac{1}{2}$ turns.
 - After installing the sub-oxygen sensor, check that the sensor wire is not twisted. If it is twisted, remove the sub-oxygen sensor and reinstall it.
- Install the two wire grommets to the floor.

6. RECONNECT CABLE TO NEGATIVE TERMINAL OF BATTERY

