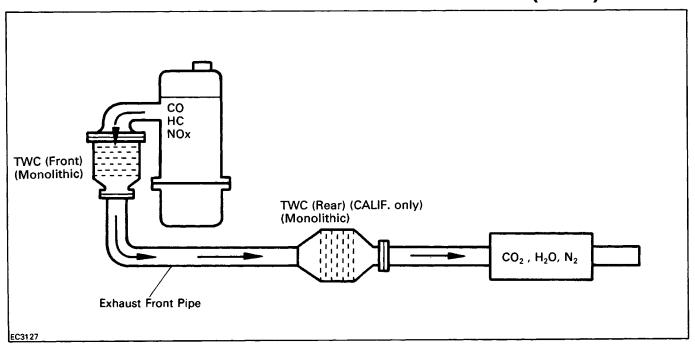
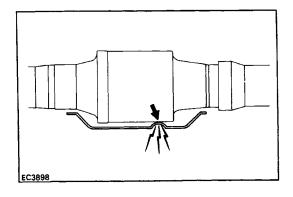
THREE-WAY CATALYTIC CONVERTER (TWC) SYSTEM



d nitrogen (N ₂) by th	e three-w	ay catalytic converter		 _
Exhaust Port		TWC (Front)	TWC (Rear) (CALIF. only)	Exhaust Gas
CO HC NOx		OXIDATION AND REDUCTION	OXIDATION AND REDUCTION	CO ₂ H ₂ O N ₂

INSPECTION OF EXHAUST PIPE ASSEMBLY

- 1. INSPECT CONNECTIONS FOR LOOSENESS OR **DAMAGE**
- 2. INSPECT CLAMPS FOR WEAKNESS, CRACKS OR **DAMAGE**

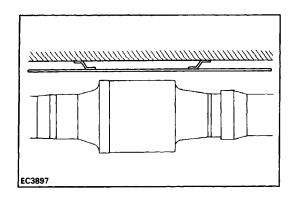


INSPECTION OF THREE-WAY CATALYTIC **CONVERTER**

(Three-Way Catalytic Converter-Rear (CALIF. only))

INSPECT FOR DENTS OR DAMAGE

If any part of protector is damaged or dented to the extent that it contacts the three-way catalytic converter, repair or replace it.



INSPECTION OF HEAT INSULATOR (Three-Way Catalytic Converter-Rear (CALIF. only))

- 1. INSPECT HEAT INSULATOR FOR DAMAGE
- 2. INSPECT FOR ADEQUATE CLEARANCE BETWEEN THREE-WAY CATALYTIC CONVERTER AND HEAT **INSULATOR**

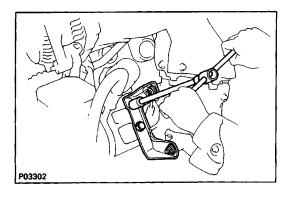
REPLACEMENT OF THREE-WAY **CATALYTIC CONVERTER**

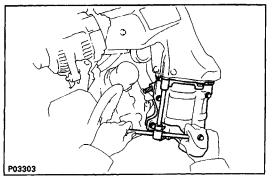
(Three-Way Catalytic Converter (Front))

1. DISCONNECT CABLE FROM NEGATIVE TERMINAL **OF BATTERY**

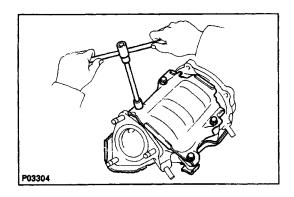
CAUTION: Work must be started after. approx. 20 seconds or longer from the time the ignition switch is turned to the "LOCK" position and the negative (-) terminal cable is disconnected from the battery.

- 2. REMOVE RH ENGINE UNDER COVER
- 3. REMOVE FRONT EXHAUST PIPE (See step 2 on page EC-45)
- 4. REMOVE THREE-WAY CATALYTIC CONVERTER (FRONT)
 - (a) Check that the three-way catalytic converter is cool
 - (b) Disconnect the main oxygen sensor connector.
 - (c) (CALIF. only) Disconnect the sub-oxygen sensor connector.
 - (d) Remove the two bolts, two nuts and three-way catalytic converter stay.



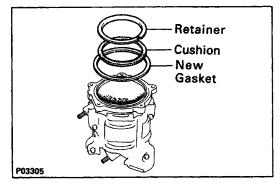


- (e) Remove the three bolts, two nuts, three-way catalytic converter, gasket, retainer and cushion.
- (f) Remove the eight bolts and two heat insulators from the three-way catalytic converter.

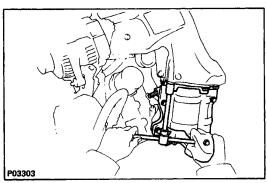


5. REINSTALL THREE-WAY CATALYTIC CONVERTER (FRONT)

(a) Install the two heat insulators to a new three—way catalytic converter with the eight bolts.

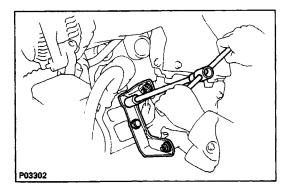


(b) Place the cushion, retainer and a new gasket on the three–way catalytic converter.



(c) Install the three–way catalytic converter with the three bolts and two new nuts.

Torque: 29 N-m (300 kgf-cm, 21 ft-lbf)



(d) Install the three–way catalytic converter stay with the two bolts and two nuts.

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

- (e) Connect the main oxygen sensor connector.
- (f) (CALIF. only)

Connect the sub-oxygen sensor connector.

6. REINSTALL FRONT EXHAUST PIPE

(See step 3 on page EC-45)

- 7. REINSTALL RH ENGINE UNDER COVER
- 8. CONNECT CABLE TO NEGATIVE TERMINAL OF BATTERY

(Three–Way Catalytic Converter–Rear (CALIF. only))

- 1. REMOVE RH ENGINE UNDER COVER
- 2. REMOVE FRONT EXHAUST PIPE (THREE-WAY CATALYTIC CONVERTER-REAR)
 - (a) Loosen the bolt, and disconnect the clamp from the bracket.
 - (b) Remove the two bolts and nuts holding the front exhaust pipe to the center exhaust pipe.
 - (c) Using a 14 mm deep socket wrench, remove the three nuts holding the front exhaust pipe to the three–way catalytic converter (front).
 - (d) Disconnect the support hook on the front exhaust pipe from the support bracket, and remove the front exhaust pipe and two gaskets.

3. REINSTALL FRONT EXHAUST PIPE (THREE-WAY CATALYTIC CONVERTER-REAR)

- (a) Install the support hook on the front exhaust pipe to the support bracket.
- (b) Place two new gaskets on the front and rear of the front exhaust pipe.
- (c) Temporarily install the two bolts and two new nuts holding the front exhaust pipe to the center exhaust pipe.
- (d) Using a 14 mm deep socket wrench, install the three new nuts holding the front exhaust pipe to the three–way catalytic converter (front).

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

(e) Tighten the two bolts and nuts holding the front exhaust pipe to the center exhaust pipe.

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

(f) Install the clamp with the bolt.

4. REINSTALL RH ENGINE UNDER COVER