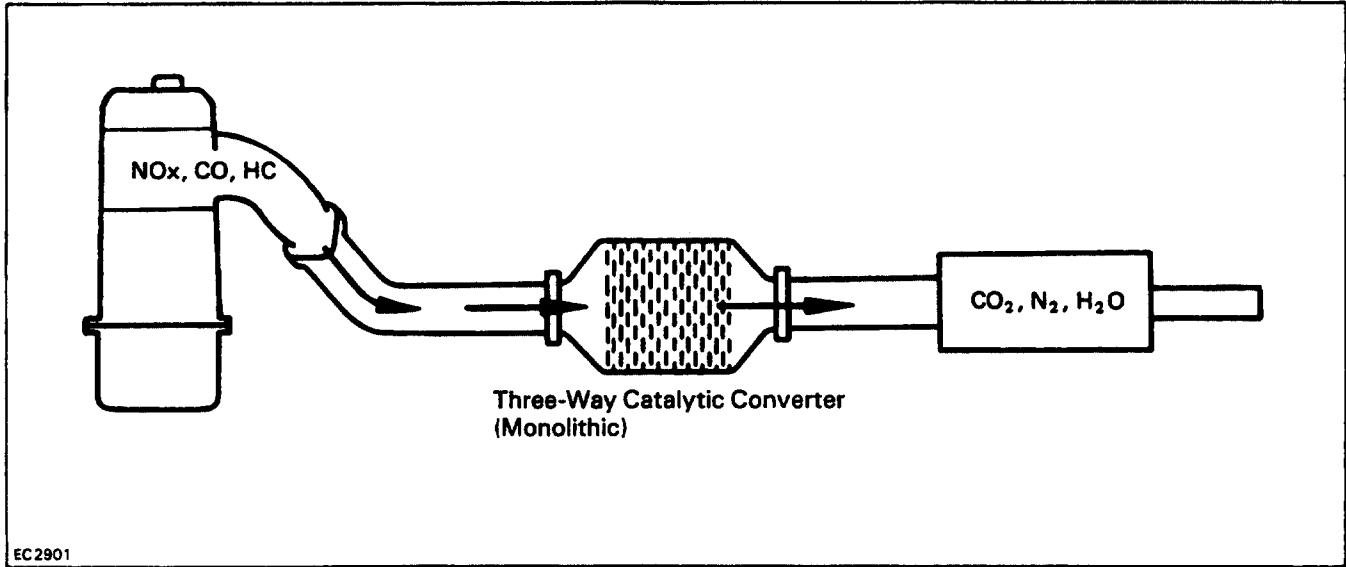


# THREE-WAY CATALYTIC CONVERTER (TWC) SYSTEM

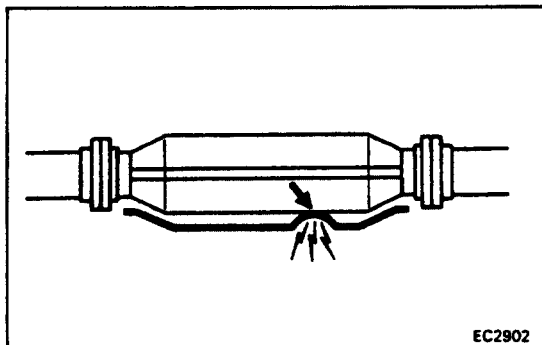


To reduce HC, CO and NOx emissions, they are oxidized, reduced and converted to nitrogen (N<sub>2</sub>), carbon dioxide (CO<sub>2</sub>), and water (H<sub>2</sub>O) by the catalytic converter.

Exhaust Port	TWC	Exhaust Gas
HC, CO and NOx	Oxidation and reduction	CO <sub>2</sub> H <sub>2</sub> O N <sub>2</sub>

## EXHAUST PIPE ASSEMBLY INSPECTION

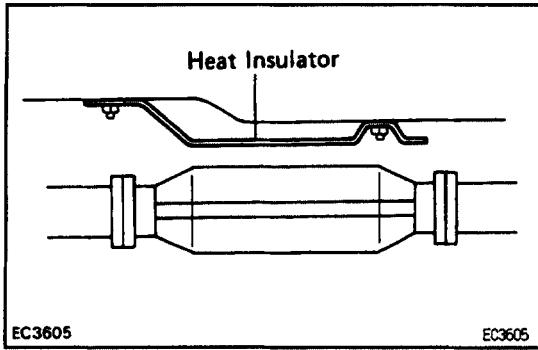
1. CHECK CONNECTIONS FOR LOOSENESS OR DAMAGE
2. CHECK CLAMPS FOR WEAKNESS, CRACKS OR DAMAGE



## THREE-WAY CATALYTIC CONVERTER INSPECTION

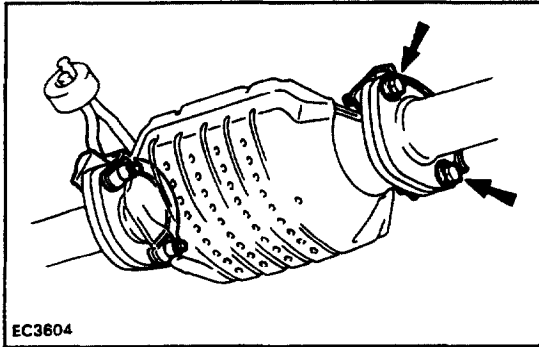
### CHECK FOR DENTS OR DAMAGE

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



## HEAT INSULATOR INSPECTION

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



## THREE-WAY CATALYTIC CONVERTER REPLACEMENT

1. REMOVE CONVERTER
  - (a) Jack up the vehicle.
  - (b) Check that the converter is cool.
  - (c) Remove the bolts at the front and rear of the converter.
  - (d) Remove the converter and gaskets.
2. INSTALL CONVERTER
  - (a) Place new gaskets on the converter front and rear pipes, and connect the converter to the exhaust pipes.
  - (b) Torque the bolts.  
**Torque: 39 N·m (400 kgf·cm, 29 ft·lbf)**
  - (c) Reinstall the bracket bolts and tighten them.

## SERVICE SPECIFICATIONS

### TORQUE SPECIFICATIONS

Part tightened	N·m	kgf·cm	ft·lbf
Cylinder head X EGR valve	13	130	9
Air intake chamber X EGR pipe	13	130	9
Intake manifold X PAIR reed valve	13	130	9
No. 1 air injection manifold X PAIR reed valve	13	130	9
Three-way catalytic converter X Front and rear pipes	39	400	29