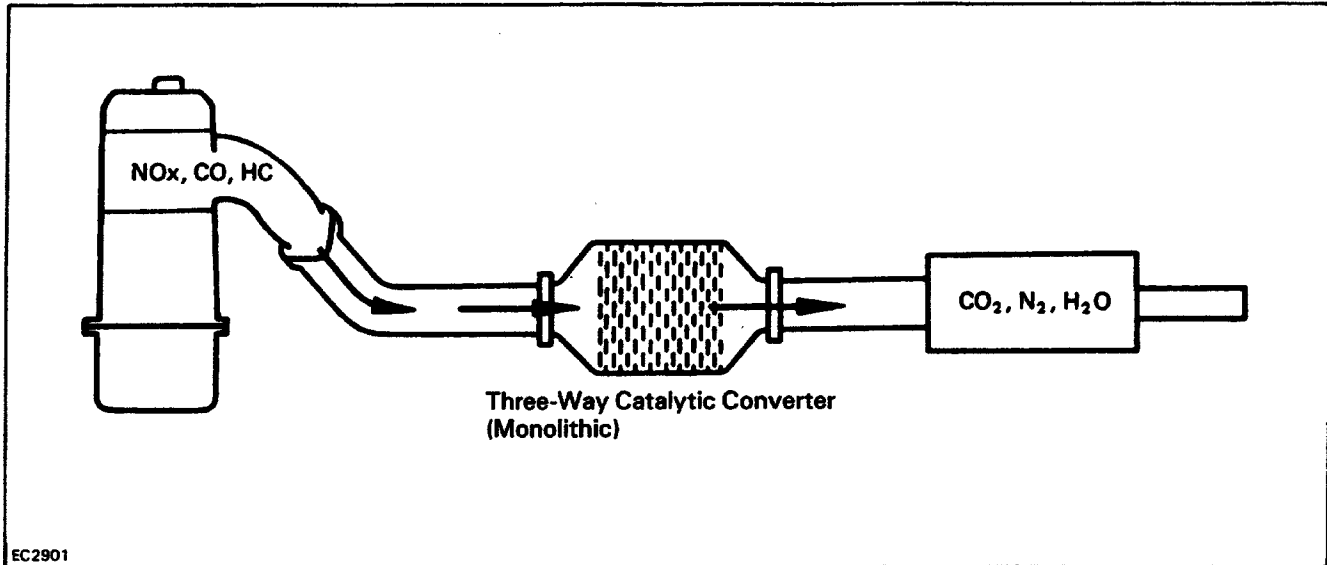


# THREE-WAY CATALYTIC CONVERTER (TWC) SYSTEM

B01W1-02



To reduce HC, CO and NO<sub>x</sub> 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.

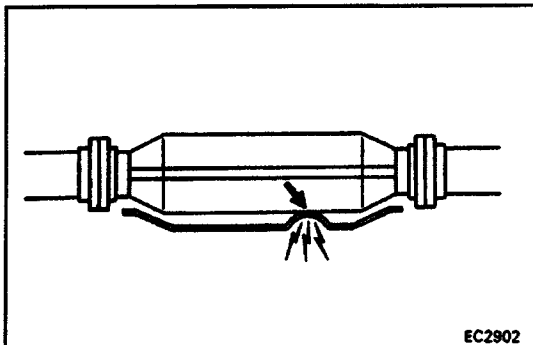
Exhaust Port		TWC		Exhaust Gas
HC, CO and NO <sub>x</sub>	→	Oxidation and reduction	→	CO <sub>2</sub> H <sub>2</sub> O N <sub>2</sub>

V01777

IG1WY-11

## EXHAUST PIPE ASSEMBLY INSPECTION

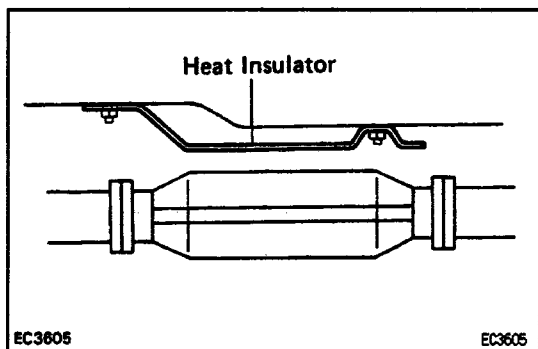
1. CHECK CONNECTIONS FOR LOOSENESS OR DAMAGE
2. CHECK CLAMPS FOR WEAKNESS, CRACKS OR DAMAGE



## THREE-WAY CATALYTIC CONVERTER INSPECTION

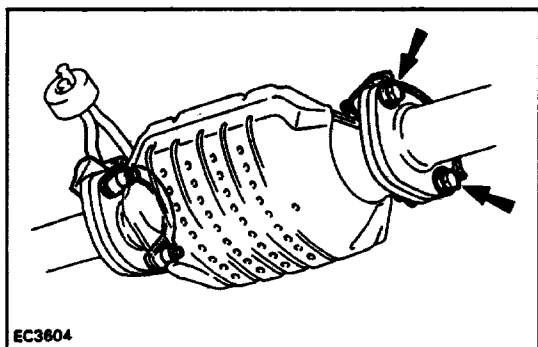
### CHECK FOR DENTS OR DAMAGE

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	kgf-cm	ft-lbf
Cylinder head x EGR valve	•13 <sup>^</sup>	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