

DATSUN CATALYTIC CONVERTER

All Models

NOTE — A 3-way catalytic converter is used on all California 280ZX and 810 models. This converter is used with the Mixture Ratio Feedback system.

DESCRIPTION & OPERATION

The Catalytic Converter is installed in the exhaust system ahead of the main muffler, so that all exhaust gases must pass through it. The converter contains a substance coated with a catalyst material. On California 280ZX and 810 models, the exhaust gas oxygen sensor monitors the oxygen content of the exhaust gases and sends electrical impulses to the electronic fuel injection control unit. The control unit adjusts air/fuel ratio accordingly, so the catalytic converter can convert the unburned components into carbon dioxide, water and nitrogen gas.

On all other models, when exhaust gases, mixed with secondary air from the injection/induction system, pass through the converter, the catalyst material promotes a chemical reaction. This chemical reaction converts unburned hydrocarbons and carbon monoxide into carbon dioxide and water.

TESTING

NOTE — Other than visual inspection for cracks or damage, the only test for checking catalytic converter operation is to check CO level variations as follows:

1) Perform test with engine at normal operating temperature, transmission in Neutral or "Park" and engine idle speed and CO level adjusted to specifications.

2) Run engine at 2000 RPM for approximately four minutes, then allow one minute for engine speed to stabilize before checking CO level.

NOTE — Air injection/induction system must be **CONNECTED** when checking CO levels during this test.

3) If CO level is less than 0.3%, catalytic converter is okay. If CO level is greater than 0.3%, and air injection/induction (mixture ratio feedback) system is operating properly, catalytic converter must be replaced.