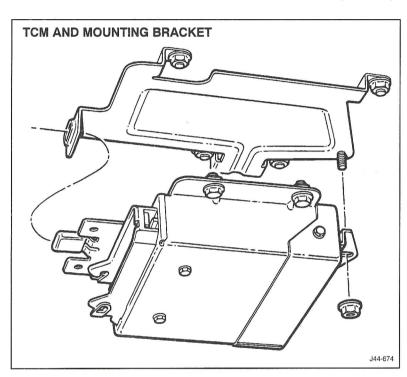
6.0 Litre and Supercharged 4.0 Litre - Transmission Management

On 6.0 litre models a new transmission control module (TCM) accommodates the introduction of new engine management system, on-board diagnostics (OBD) II and traction control. The sa TCM, with revised calibration, is adopted for the supercharged 4.0 litre models.

Inputs and Outputs

The TCM now receives an engine torque input from the engine control module (ECM), and a trac control active input from the anti-lock braking system/traction control, electronic control module (ABS/TC CM). The barometric pressure, air temperature, air conditioning clutch active and one of two calibration select inputs are deleted.

On 6.0 litre models, there is a road speed output for the ECM.



Transmission Control Module

The new TCM is a single board unit containe a rectangular casing. A 55-way connector the casing provides the interface with vehicle wiring. The TCM is installed on a t part bracket assembly in the interior, on passenger side of the upper toe-board. part of the bracket attaches to the moun studs of the anti-lock braking system modul and the other to the TCM. A single securing locks the two parts together, enabling e removal/installation of the TCM.

The main feature differences of the new T are as follows:

- · The TCM uses an engine torque input f the ECM instead of calculating it from three position, engine speed, barometric pressure temperature and air conditioning clutch ac inputs
- · On receipt of the traction control ac input, the TCM adopts a traction control : pattern to assist in preventing wheelspin.
- On 6.0 litre models the TCM generate road speed output for the ECM
- · The calibration select input is not utili (but remains hardwired for future eventualiti To accommodate the calibration differen between the 6.0 litre and the supercharged litre models, the respective TCM's are load with different software
- The torque reduction request to the ECN variable instead of fixed, so the ignition retar gear change is optimised to the driv configuration
- The check engine input from the ECM longer causes any default action. Only if TCM detects a fault will it revert to a back mode of operation
- The numbering of the TCM fault code: revised to conform to the requirements of OBD II system (see Electric/Electronic - OB
- · Additional fault codes are introduced for traction control signals.