

# Sub-throttle Position Sensor Range/Performance Monitor Description

## MONITOR SUMMARY

The sub-throttle is used for the traction control system. It is equipped with a throttle position sensor that changes its electrical resistance with the opening and closing of the sub-throttle valve.

The ECM applies a regulated reference voltage to the throttle position sensor “+” terminal and calculates the angle of the throttle valve based on the voltages present at the throttle position sensor “signal” terminals. When the sub-throttle valve is near the fully closed position, output voltage of the sub-throttle position sensor is low. When it is near the fully open position, the voltage is high.

The ECM compares the opening angle of the main throttle valve to that of the sub-throttle valve. If the difference between the opening angles between the main throttle valve and sub-throttle valve is large, the ECM interprets this as a malfunction in the sub-throttle position sensor and sets a DTC.

## RELATED DTC

|              |       |                                          |
|--------------|-------|------------------------------------------|
| Related DTCs | P1401 | Sub-throttle position sensor malfunction |
|--------------|-------|------------------------------------------|

## MODEL YEAR CHART

| Model Year   | See Page              |
|--------------|-----------------------|
| 1996 to 1998 | <a href="#">Ce-82</a> |