DTC P0120 THROTTLE POSITION SENSOR

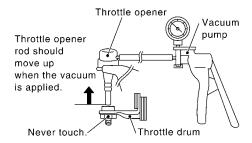
VG33E

Diagnostic Procedure (Cont'd)

10 CHECK THROTTLE POSITION SENSOR

(X) Without CONSULT-II

- 1. Start engine and warm it up to normal operating temperature.
- 2. Stop engine (ignition switch OFF).
- 3. Remove the vacuum hose connected to the throttle opener (If so equipped).
- 4. Connect suitable vacuum hose to the vacuum pump and the opener.
- 5. Apply vacuum [more than -40.0kPa (-300mmHg, 11.81inHG)] until the throttle drum becomes free from the rod of the throttle opener.



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- 6. Turn ignition switch ON.
- 7. Check voltage between ECM terminal 23 (Throttle position sensor signal) and ground. Voltage measurement must be made with throttle position sensor installed in vehicle.

Throttle valve conditions	Voltage
Completely closed (a)	0.15 - 0.85V
Partially open	Between (a) and (b)
Completely open (b)	3.5 - 4.7V

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OK or NG

OK	GO TO 12.
NG	GO TO 11.

11 ADJUST CLOSED THROTTLE POSITION SWITCH

Adjust closed throttle position switch. Refer to "Basic Inspection", EC-669.

Items	Specifications
Ignition timing	15° ± 2° BTDC
Base idle speed	700 ± 50 rpm (in "P" or "N" position)
Closed throttle position switch idle position adjustment	Feeler gauge thickness and switch condition 0.3 mm (0.012 in): ON 0.4 mm (0.016 in): OFF
Target idle speed	750 ± 50 rpm (in "P" or "N" position)

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OK o	r NG
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OK	GO TO 12.
NG	Replace throttle position sensor. To adjust it, perform "Basic Inspection", EC-669.