

THROTTLE POSITION SENSOR (TPS)

Inspection

1. Disconnect battery negative cable at battery.
2. Disconnect TPS coupler.
3. Using ohmmeter, check resistance between each terminals under each condition given in below table.

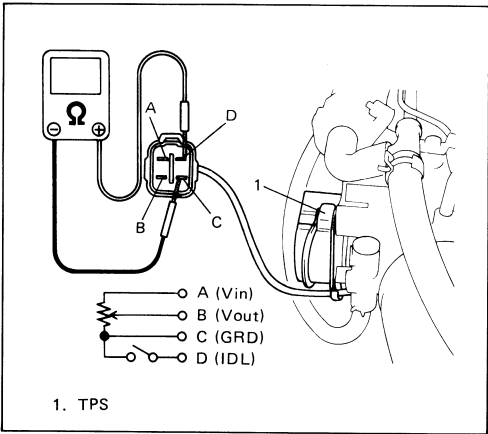


Fig. 6E-121 Checking TPS

TERMINALS	CONDITION	RESISTANCE
Between C and D terminals (Idle switch)	When throttle lever-to-stop screw clearance is 0.3 mm (0.012 in.)	0 – 500 Ω
	When throttle lever-to-stop screw clearance is 0.9 mm (0.035 in.)	∞
Between C and A terminals	—	3.5 – 6.5 kΩ
Between C and B terminals	Throttle valve is at idle position	0 – 500 Ω
	Throttle valve is fully opened	3.5 – 6.5 kΩ

If idle switch check result is not satisfactory, adjust installation angle of TPS and if found defective in the other check, replace TPS.

4. Connect TPS coupler securely.
5. Connect battery negative cable.

Adjustment

1. Disconnect battery negative cable and disconnect TPS coupler.
2. Loosen TPS screws.
3. Insert 0.65 mm (0.025 in) thickness gauge between throttle stop screw and throttle lever.

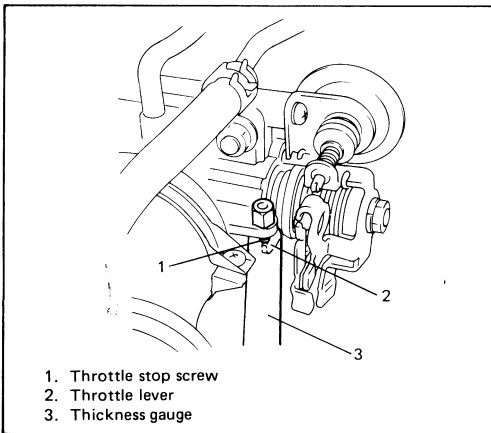


Fig. 6E-122 Inserting Thickness Gauge

4. Connect ohmmeter between C and D terminals.
5. First, turn TPS clockwise fully and then counterclockwise gradually to find position where ohmmeter reading changes from 0 (Zero, continuity) to ∞ (no continuity). Then fix TPS at that position by tightening screws to specified torque.

Tightening torque of TPS screw	N·m	kg·m	lb·ft
	3.5	0.35	2.5

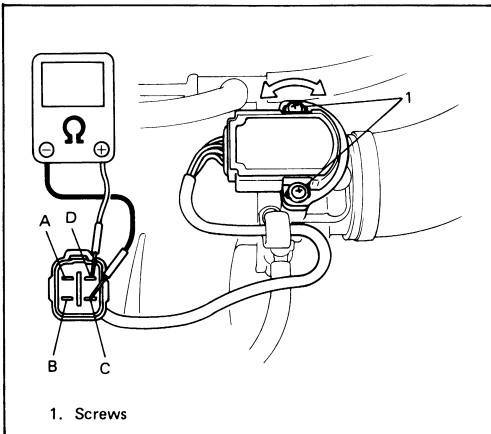


Fig. 6E-123 Adjusting TPS

6. Check that there is no continuity between terminals C and D when 0.9 mm (0.035 in) thickness gauge is inserted.
7. Check that there is continuity between terminals C and D when 0.3 mm (0.012 in) thickness gauge is inserted.

If check result is unsatisfactory in steps 6 and 7, it means that installation angle of TPS is not adjusted properly. Therefore, start all over again from step 1.

CAUTION:

As throttle stop screw is factory adjusted precisely, don't remove or adjust it.

8. Connect coupler to TPS securely and connect battery negative cable.