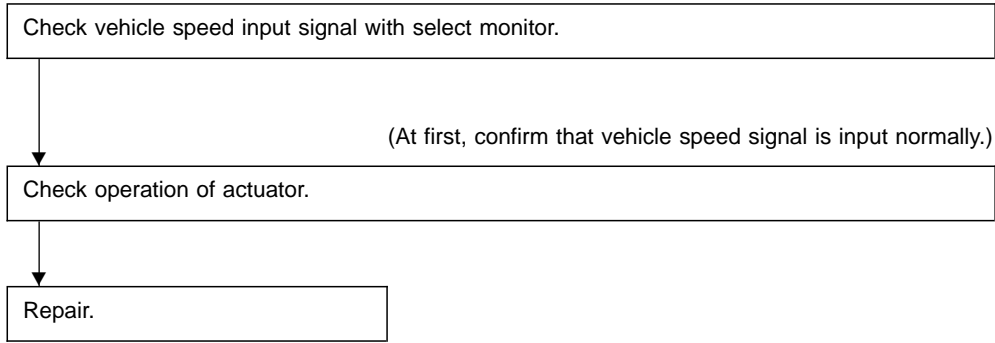


8. Diagnostics Chart for Actuator



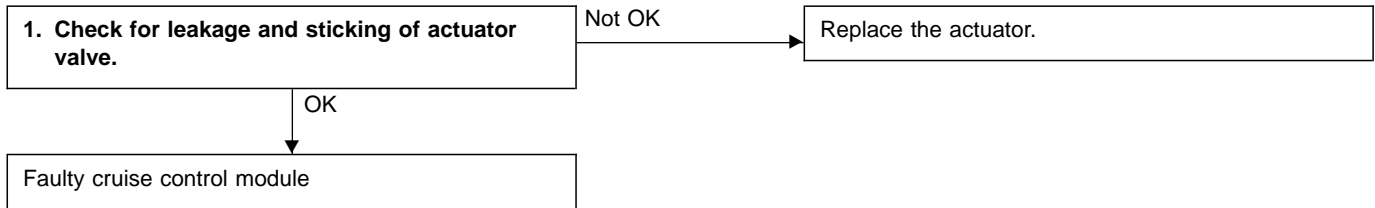
A: CHECK OPERATION OF ACTUATOR

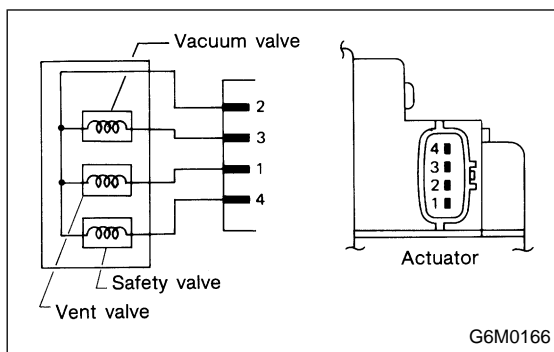
DIAGNOSIS:

- Sticking of air leaves of actuator, or sticking of valve and actuator diaphragm.

TROUBLE SYMPTOM:

- Cannot run at set speed ± 3 km/h (± 2 MPH).





1. CHECK FOR LEAKAGE AND STICKING OF ACTUATOR VALVE

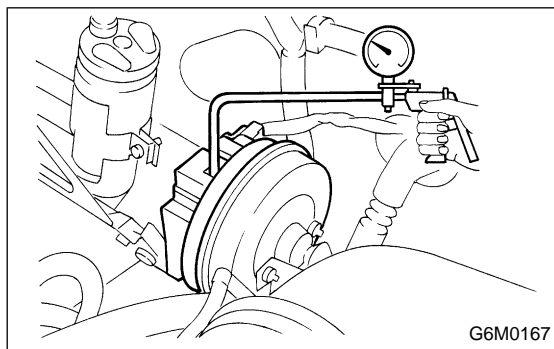
1) Measure resistance of actuator.

Terminals/Specified resistance:

No. 2 — No. 1/55 Ω (Vent valve)

No. 2 — No. 3/22 Ω (Vacuum valve)

No. 2 — No. 4/55 Ω (Safety valve)



2) Check operation of actuator.

(1) Connect ⊕ battery cable to terminal 2 and ⊖ battery cable to terminal 1, 3 and 4.

(2) Make sure cable moves smoothly when a vacuum pressure of 40.0 kPa (300 mmHg, 11.81 inHg) is applied to actuator using vacuum pump.

Stroke: 35 mm (1.38 in)

Movement time: Within 3 seconds

(3) When the battery is removed from condition (2) above, make sure the cable returns to its original position smoothly.

Movement time: Within 1.5 seconds

(4) Connect battery to each terminal and check cable movement when vacuum pressure is applied by vacuum pump.

Vacuum pressure	Terminal No.				Battery		Operation mode
	1	2	3	4	⊕	⊖	
OFF	—	—	—	—	—	—	—
ON (Vacuum pressure applied.)		○			○		Pull
			○			○	
	○					○	
				○		○	Hold
	○					○	
			○			○	Release
				○		○	
					○	○	