

AUTOMATIC SPEED CONTROL DEVICE

Trouble-shooting

Preparation — Remove A.S.C.D. control unit from its mounting (behind R.H. seat panel), leaving the harness connected.

Note: relays located under bonnet at relay bracket.

FAULT — Type 1. Cruise speed cannot be set.

Turn A.S.C.D. main switch "OFF" and then "ON" to make sure "Cruise On" light illuminates.

Yes

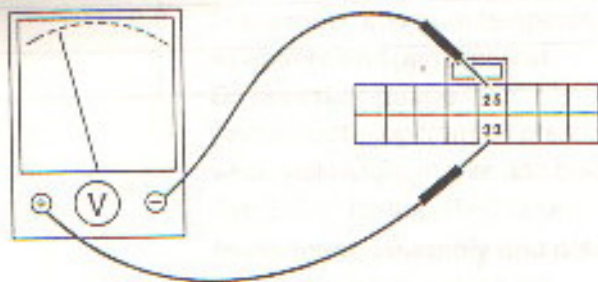
Check for loose vacuum hose to A.S.C.D. activator.

O.K.

No

Check A.S.C.D. main switch and A.S.C.D. relay No. 1.

1. Release brake pedal
2. Place gear selection in "D"
3. Turn ignition switch "ON"
4. Turn A.S.C.D. switch "ON"
5. Check voltage between pins 33 and 25 of A.S.C.D. harness plug. Should be approx. 12V.



O.K.

(A)

N.G.

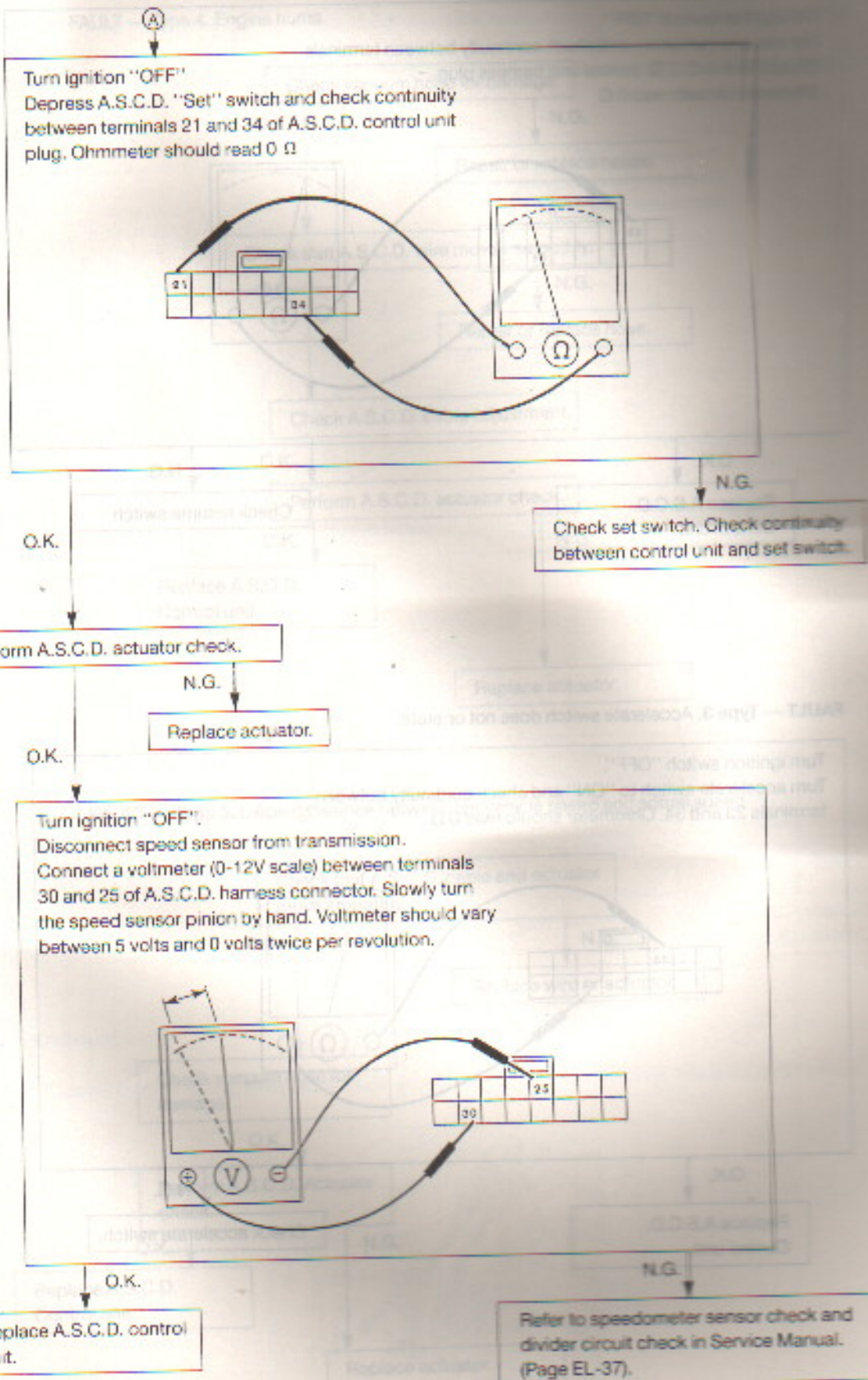
Check stop switch, inhibitor switch, inhibitor relay, A.S.C.D. relay No. 1.

O.K.

Check continuity between terminal 33 of A.S.C.D. harness plug and stop switch (Blue/Green wire, and between stop switch (Blue wire) and A.S.C.D. relay No. 2.

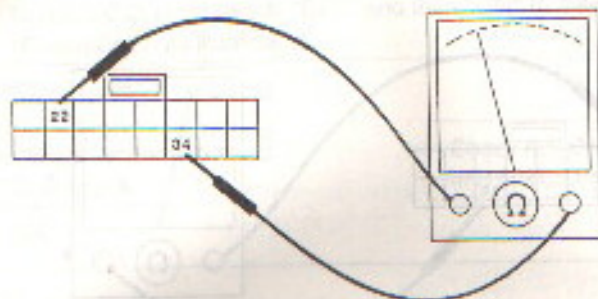
AUTOMATIC SPEED CONTROL DEVICE

Trouble-shooting (Cont'd)



FAULT — Type 2. Resume switch does not operate.

Turn ignition switch "OFF".
Turn resume switch on and check continuity between terminals
22 and 34 of A.S.C.D. control unit harness plug.
Ohmmeter should read 0 Ω



O.K.

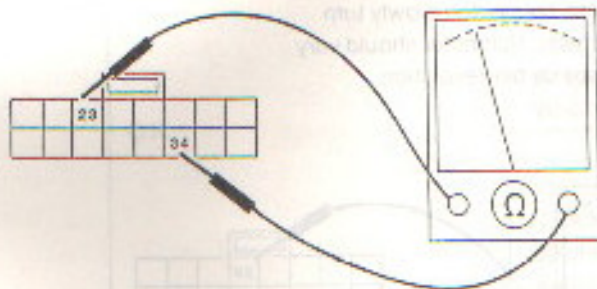
Replace A.S.C.D.
Control unit.

N.G.

Check resume switch.

FAULT — Type 3. Accelerate switch does not operate.

Turn ignition switch "OFF".
Turn accelerate switch to "ON" and check continuity between
terminals 23 and 34. Ohmmeter should read 0 Ω



O.K.

Replace A.S.C.D.
Control unit.

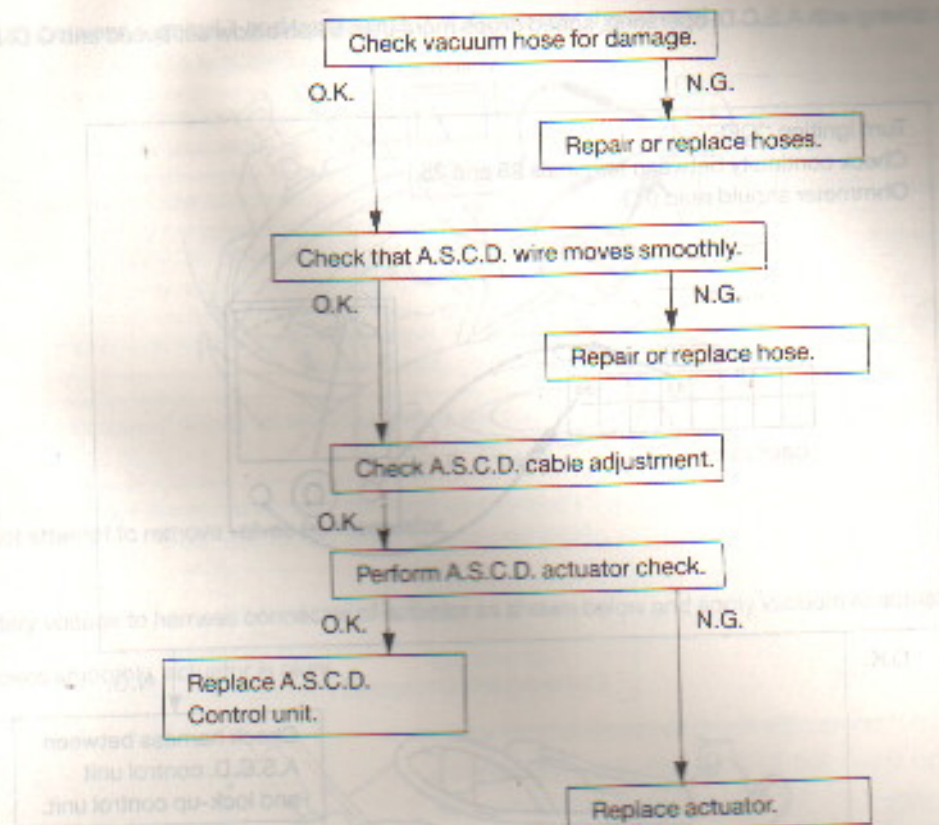
N.G.

Check accelerate switch.

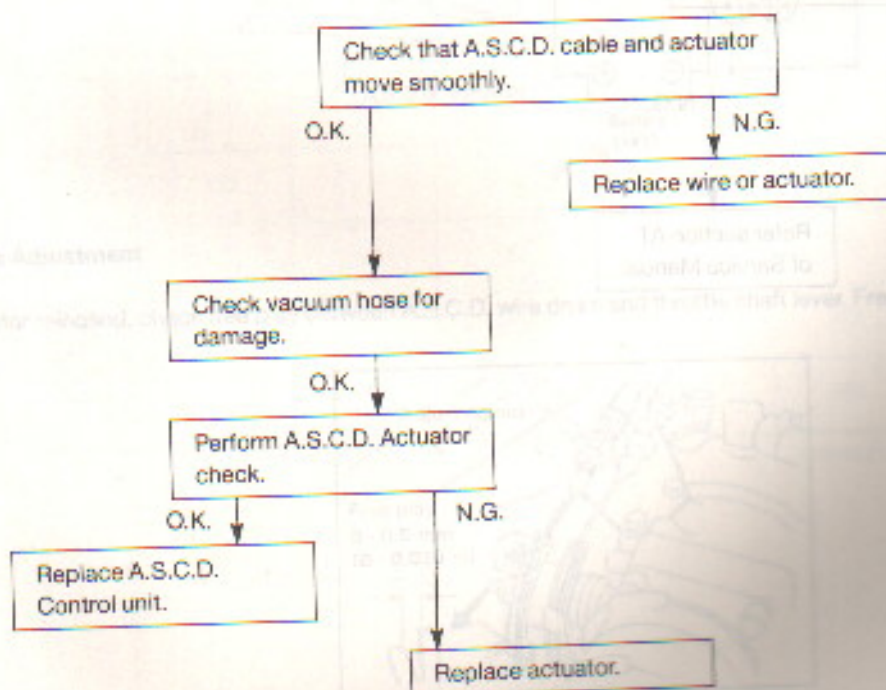
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Trouble-shooting (Cont'd)

FAULT — Type 4. Engine hunts.



FAULT — Type 5. Large difference between set vehicle speed and actual speed.



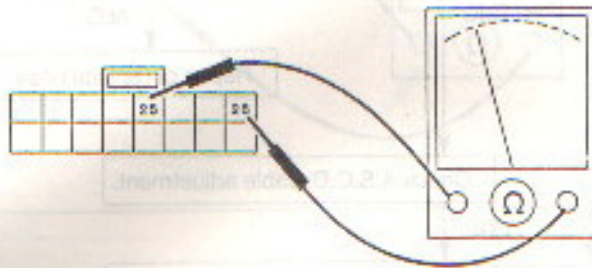
AUTOMATIC SPEED CONTROL DEVICE

Trouble-shooting (Cont'd)

FAULT — Type 6. When A.S.C.D. is "set", transmission shifts out of O.D. and remains in 3rd thereafter.

FAULT — Type 7. When driving with A.S.C.D. operating, speed drops more than 6 kph below set speed and O.D. ~~remains in 3rd thereafter.~~

Turn ignition "OFF".
Check continuity between terminals 28 and 25.
Ohmmeter should read 0 Ω



O.K.

N.G.

Check harness between
A.S.C.D. control unit
and lock-up control unit.

Disconnect A.S.C.D. control
unit and drive vehicle to
confirm transmission operates
properly.

O.K.

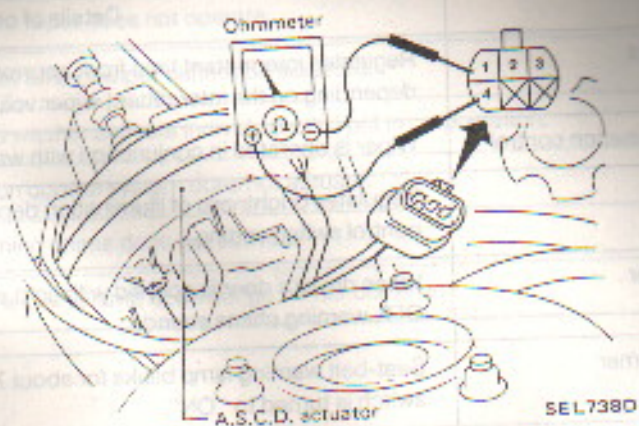
Replace A.S.C.D.
Control unit.

N.G.

Refer section AT
of Service Manual.

A.S.C.D. Actuator Check.

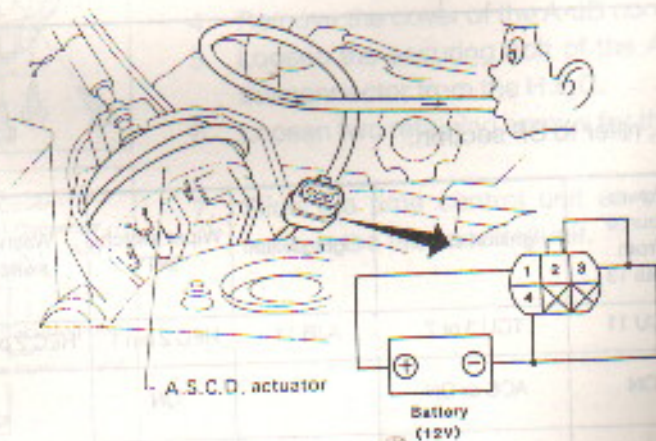
1. Check continuity between terminal 1 and terminals 2, 3, 4. Continuity should exist.



CAUTION: Do not attempt to remove valves from actuator.

2. Connect battery voltage to harness connector of actuator as shown below and apply vacuum to actuator.

If diaphragm moves smoothly, actuator is okay.



A.S.C.D. Wire Adjustment

With accelerator released, check free play between A.S.C.D. wire drum and throttle shaft lever. Free play 1-4.5 mm.

