

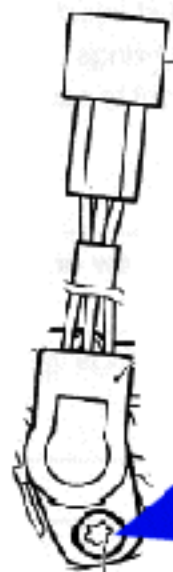
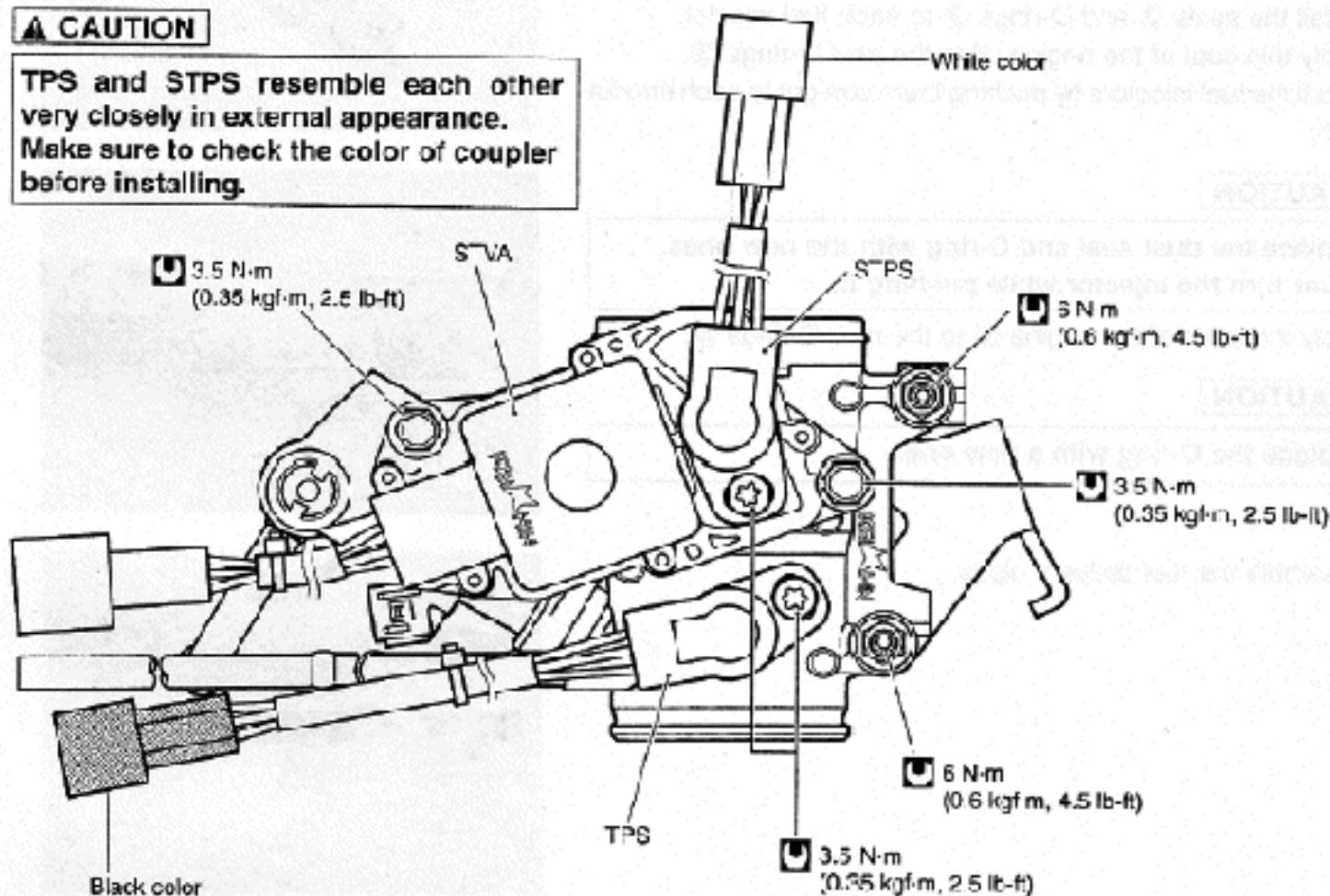
c28 and STPS notes by *The Bugman*

If you're getting a c28 error code, you might want to check your STPS adjustment FIRST, before going through all the c28 items in the service manual. A miscalibrated STPS WILL cause a c28 error code, NOT a c29. So check your STPS resistance and adjust as on page 2, before doing anything else. This is a common cause of the c28 error code that can be fixed in 10 seconds with a T25 torx screwdriver and a multimeter.

Here's how to find the STPS:

CAUTION

TPS and STPS resemble each other very closely in external appearance. Make sure to check the color of coupler before installing.



THIS is the STPS

THIS is the torx screw you loosen in order to adjust the STPS. It requires a T25 torx screwdriver. (\$3 at your local ACE hardware store)

STP SENSOR ADJUSTMENT

If the STP sensor adjustment is necessary, measure the sensor resistance and adjust the STP sensor positioning as follows:

- Disconnect the STP sensor coupler.
- Set the ST valve to fully close position by finger and measure the resistance between yellow and black wires.

DATA STP sensor setting resistance

ST valve is fully closed: **Approx. 0.5 k Ω**
(**+** Yellow – **-** Black)

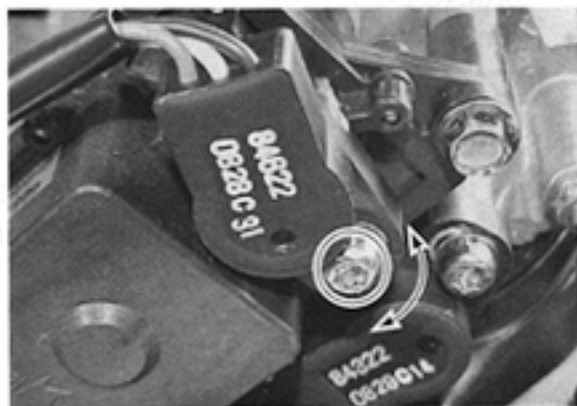
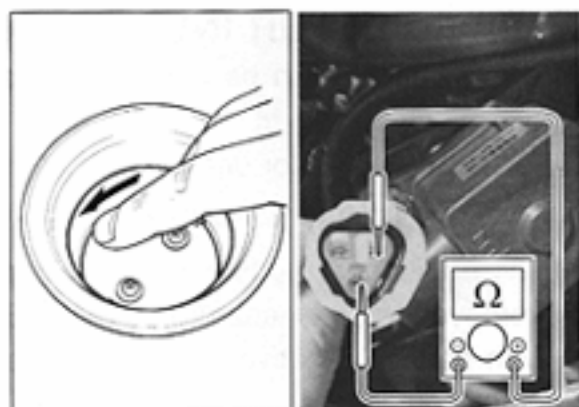
TOOL 09900-25008: Multi circuit tester

TEST Tester knob indication: Resistance (Ω)

- Loosen the STP sensor mounting screws.
- Adjust the STP sensor until resistance is within specification and tighten the STP sensor mounting screws.

TOOL 09930-11950: Torx wrench

T STP sensor mounting screw: **3.5 N·m**
(**0.35 kgf·m, 2.5 lb-ft**)



“C28” STV ACTUATOR CIRCUIT MALFUNCTION

DETECTED CONDITION	POSSIBLE CAUSE
The operation voltage does not reach the STVA. ECM does not receive communication signal from the STVA.	<ul style="list-style-type: none"> • STVA malfunction. • STVA circuit open or short. • STVA motor malfunction.

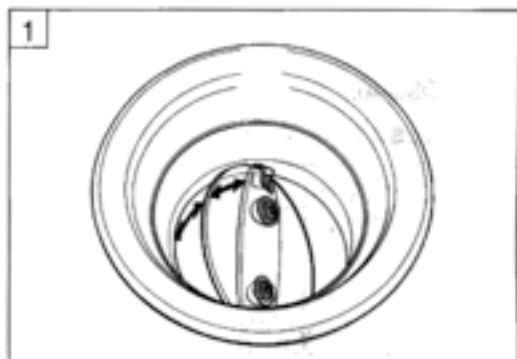
INSPECTION

- Lift and support the fuel tank with its prop stay. (☞ 4-56)
- Remove the air cleaner element.

1 Turn the ignition switch OFF.
Check the STVA lead wire coupler for loose or poor contacts.
Turn the ignition switch ON to check the STVA operation.
(STV operating order: Full open → 20% open)

No → Loose or poor contacts on the STVA coupler.
Open or short circuit in the (Pink or Black) and (W/Bl or Green) wires.

Yes



2 Turn the ignition switch OFF.
Disconnect the STVA lead wire coupler.
Check the continuity between each wire and ground.

DATA STVA continuity: $\infty\Omega$ (Infinity)

If OK, then measure the STVA resistance. (between Pink and Black wires) and (between W/B and Green wires)

DATA STVA resistance: Approx. $6.5\ \Omega$

(⊕ Pink – ⊖ Black)

(⊕ W/B – ⊖ Green)

BOOK 09900-25008: Multi circuit tester

TESTER Tester knob indication: Resistance (Ω)

No → Replace the STVA with a new one.

Yes



Loose or poor contacts on the STVA coupler.
If wire and connection are OK, intermittent trouble or faulty ECM. Recheck each terminal and wire harness for open circuit and poor connection. (☞ 4-4)

→ Replace the ECM with new one, and inspect it again.

