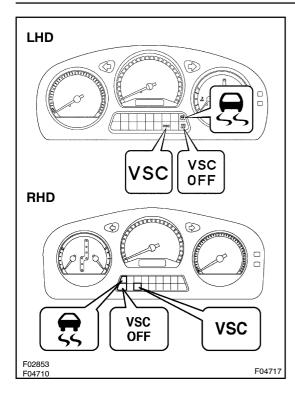
DI287-02



PRE-CHECK

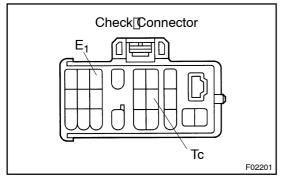
1. DIAGNOSIS SYSTEM

(a) Check[he]indicator.

When[he[ignition]switch[is[furned[DN,@heck[that[the]VSC]] warning[ight,]VSC[DFF[indicator[ight]and[\$LIP[indicator]] light[goes[DN[for]\$]seconds.

HINT:

- ☐ If[]he[]ECU[]stores[]DTC,[]VSC[]warning[]ight[]and[]VSC[]DFF indicator[]ight[]is[]DN.
- •□ Iffthe[indicator@heckresultrismotmormal,proceedftoftroubleshootingfforthe[VSCwarningfight@ircuit,[VSCDFFindicator_light@ircuit, and SLIP_indicator_light@ircuit_(Seepage[DI-342,[DI-344,[DI-347).



(b) In case of motusing mand-held tester: Check the DTC

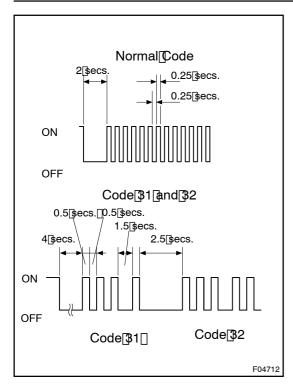
(1) Using SST, connect reminals Tc and F₁ of check connector.

SST∏ 09843 - 18020

- (2) Turn he ignition witch ON.
- (3) Read[the[DTC[from[the[VSC[warning[ight[bn[the combination[meter.]

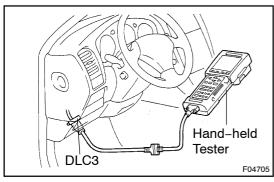
HINT:

• If hocode appears, hspect he diagnostic circuit or VSC warning ht circuit See page DI-301 or DI-342).



- •□ Asanexample, the blinking patterns for mormal code and code 1 and 22 are shown on the fet.
 - (4) Codes ar E explained ntile code to ble on page DI-313.
 - (5) After@ompleting@he@heck,@isconnect@erminals@c and fighther@isplay.

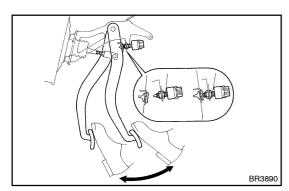
If [2] or [more malfunctions are indicated at the same time, the lowest numbered DTC will be displayed 1st.



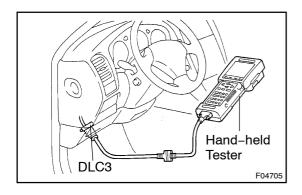
- (c) Incaseof@singmand-held@ester@ Check@he@DTC.
 - (1) ☐ Hook [up] the [hand-held] tester [to] the [DLC3.
 - (2) Turn the ignition switch ON.
 - (3) Read the DTC by following the prompts on the terscreen.



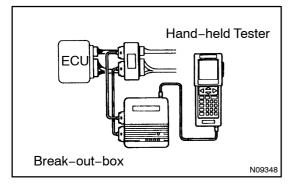
Please per for the perator from an under the form of t



- (d) Incase of not using hand-held tester:
 - Clear The TDTC.
 - (1) Using SST, connect rminals Tc and F₁ of check connector.
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 - (2) ☐ Turn the ignition switch ON.
 - (3) Clear the DTC stored n ECU by depressing the brake pedal for more times within seconds.
 - (4) Check that the warning light shows the normal code.
 - (5) Remove the SST from the terminals of check connector.
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- (e) In case of using hand-held tester: Clear the DTC.
 - (1) Hook up the hand-held tester to the DLC3.
 - (2) Turn the ignition switch ON.
 - (3) Operate the hand-held tester to erase the codes. (See hand-held tester operator's manual.)



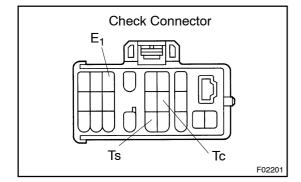
(f) (Reference):

Using break-out-box and hand-held tester, measure the ECU terminal values.

- (1) Turn the ignition switch OFF.
- (2) Hook up the break-out-box and hand-held tester to the vehicle.
- (3) Turn the ignition switch ON.
- (4) Read the ECU input/output values by following the prompts on the tester screen.

HINT:

- Hand-held tester has a "Snapshot" function. This records the measured values and is effective in the diagnosis of intermittent problems.
- Please refer to the hand-held tester/break-out-box operator's manual for further details.



2. VSC SENSOR CHECK (TEST MODE)

HINT:

If the ignition switch is turned from ON to ACC or LOCK during test mode, DTC will be erased.

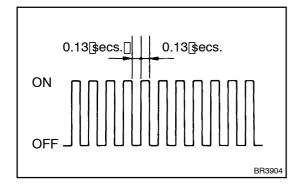
(a) In case of not using hand-held tester :

Check the VSC sensor signal.

- (1) Turn the ignition switch OFF.
- (2) Check that the shift lever position is at P range, turn the steering wheel to the neutral position.
- (3) Using SST, connect terminals Ts and E₁ of check connector.

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(4) Start the engine.



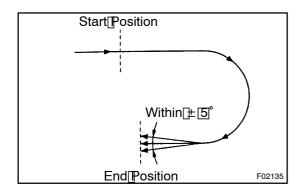
(5) ☐ Check That The TVSC Twarning Tight Thlinks.

HINT:

If the LYSC warning the LySC warning the LySC warning light the LySC warning light the LySC warning the LySC warning light the LySC warning warning the LySC warning the LySC warning warning the LySC warning warning

(See_page_DI-303, DI-303)

- (6) After hew ECU installed, the first time only:
 Start the engine and keep the vehicle in the stationary condition on the flat place for sec. or more, and check the zero point calibration of the yaw fate sensor.
- (7) Check[the[steering[angle[sensor.
 Turn[the[steering[wheel[either[to[left[or[ight[for[450° or[more[from[the[vehicle[stationary[condition,[and turn[back[the[steering[wheel[to[the[straight[ahead position.



- (8) Check he waw rate sensor.
 - Shift@he[\$hift@ever@o@he[D@ange@and@rive@he[Vehicle@t@he[Vehicle@speed@f@pprox.@km/h@amph), turn@he[\$teering@vheel@tiher@o@eft@r@ight@or@o° or@nore,@and@naintain 180° corcular@rive@or@he[Vehicle.

Stop[]the[]vehicle[]and[]shift[]the[]shift[]ever[]to[]the[] range,[]check[]that[]the[]vSC[]buzzer[]saunds[]far[]secs.

- If the VSC buzzer sounded, the sensor check is n normal completion.
- If the VSC buzzer does not sound, do the sensor check again.
- If the VSC buzzer still won't sound, there is malfunction in the VSC sensor, so check the DTC.

HINT:

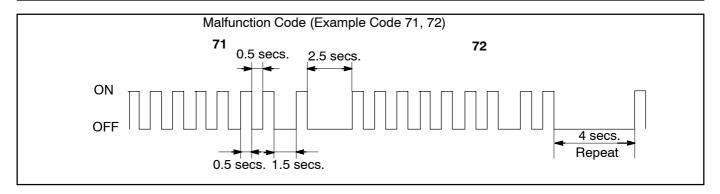
- •□ Drive[the]vehicle@ircularly[by 180°.[Att]he@nd@f[the[turn, the]direction]of[the]vehicle[should]be]within 180°±5° of its[start]position.
- □ Do not spin the rear wheels.
 - (9) Using SST, connect terminals Tc and E₁ of check connector.

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(10) Read the number of blinks of the VSC warning light.

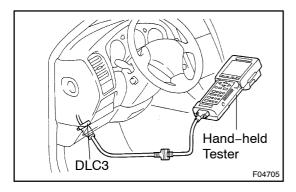
HINT:

- See the list of DTC shown on step the next page.
- If every sensor is normal, a normal code is output. (A cycle of 0.25 secs. ON and 0.25 secs. OFF is repeated.)
- If 2 or more malfunctions are indicated at the same time, the lowest numbered code will be displayed 1st.



(11) After doing the check, disconnect the SST from terminals Ts and E_1 , Tc and E_1 of check connector, and turn ignition switch OFF.

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- (b) In case of using hand-held tester:
 - Check the VSC sensor signal.
 - (1) Hook up the hand-held tester to the DLC3.
 - (2) Do steps (2) and (4)~ (8) (See 2 pages before).
 - (3) Read the DTC by following the prompts on the tester screen.

HINT:

Please refer to the hand-held tester operator's manual for further details.

DTC of the VSC sensor check function:

Code No.	Diagnosis	Trouble Area
C0371 / 71	Yaw rate sensor output signal malfunction	Yaw rate sensor Yaw rate sensor circuit
C1208 / 72	Steering position sensor output signal malfunction	Steering position sensor Steering position sensor circuit

3. YAW RATE SENSOR ZERO POINT CALIBRATION

HINT:

When replacing the yaw rate sensor or ECU, make sure to perform yaw rate sensor zero point calibration.

(a) When replacing the ECU:

After replacing ECU, shift the shift lever in P position and turn the ignition switch ON. Do not move the vehicle for 15 seconds or more.

HINT:

At this time, VSC warning light and VSC OFF indicator light are on for 15 seconds and go off.

(b) When replacing the yaw rate sensor: Shift the shift lever in P position and turn the ignition switch ON, repeat connecting and releasing Ts and E1 terminals of check connector 4 times or more for 8 secs. After that do not move the vehicle for 15 secs. or more.

HINT:

When the operation (b) is performed, DTC is deleted. At this time, ABS warning light flushes. VSC OFF light lights up for 15 secs., then goes off. VSC warning light lights up for approx. 15 secs., then flushes to indicate DTC.