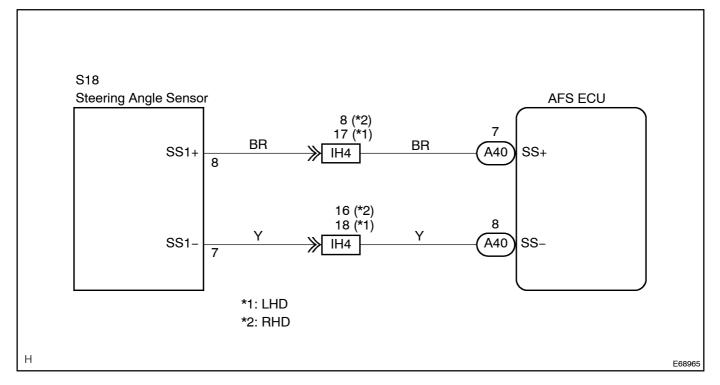
DTC	B2414	STEERING POSITION SENSOR MALFUNCTION
		WALFUNCTION

# **CIRCUIT DESCRIPTION**

The AFS ECU receives signals regarding the swerve–angle from the steering sensor in the steering wheel.

DT	C No.	DTC Detecting Condition	Trouble Area
B2	2414	Malfunction in steering sensor     Open or short in steering sensor circuit	Steering sensor     Wire harness or connector     AFS ECU

## **WIRING DIAGRAM**



# INSPECTION PROCEDURE

# 1 | READ[VALUE[OF[]NTELLIGENT[]TESTER[]I

- (a) Connect[]he[]ntelligent[]ester[]l[]to[]he[]DLC3.
- (b) Turn the ignition switch to the ON position and turn the intelligent tester is main witch on.
- (c) Select[the[items[below[in]the[DATA]LIST,[and[read[the[displays[bn]the[intelligent[tester]]]].

## AFS[AFS[ECU):

Item	Measurement <u>∏</u> tem/ Display <u>∏</u> Range)	Normal <b></b> [ <b>C</b> ondition	Diagnostic[Note
Steering[\$ens[\$ignal[]/al	Steering[şensor signal[yalue/ –384° [to[382.5°	Approx.[0]° (When[steering[wheel[is[straight)	-

## OK: Condition sign can be displayed.

#### Result:

OK[[When[checking[from[PROBLEM[\$YMPTOMS[TABLE]	Α
OK[[When[checking[from[DIAGNOSTIC[TROUBLE[CODE[CHART]	В
NG	С

B REPLACE AFS ECU (SEE PAGE 65-28 PR 65-29)

Α

PROCEED[TO[NEXT[CIRCUIT[INSPECTION[\$HOWN[IN[PROBLEM[\$YMPTOMS[TABLE (SEE[PAGE[05-1369)

2 CHECK DTC(ABS WITH EBD & BA & TRC & VSC SYSTEM)

(a) Check[he[DTC]of[he[ABS[with]EBD[&[BA[&[TRC]&[VSC]systems[[see]page[05-400]).

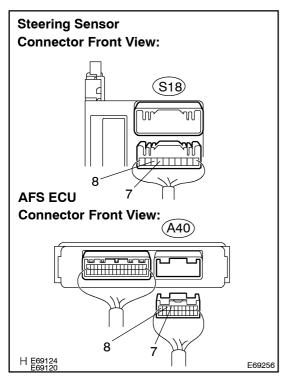
OK: Normal system code is output.

NG□

GO[TO[FLOW[CHART[SEE[PAGE[05-409]

OK

## 3 CHECK HARNESS AND CONNECTOR(STEERING SENSOR – AFS ECU)



- (a) Disconnect the steering sensor connector and A40 connector from the AFS ECU.
- (b) Measure the resistance according to the value(s) in the table below.

### Standard:

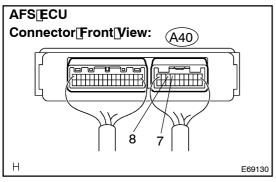
Tester Connection	Condition	Specified Condition
S18-7 (SS1-) - A40-8 (SS-)	Always	Below 1 Ω
S18-8 (SS1+) - A40-7 (SS+)	Always	Below 1 Ω
A40-8 (SS-) - Body ground	Always	10 k $\Omega$ or higher
A40-7 (SS+) - Body ground	Always	10 k $\Omega$ or higher

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

# 4 | INSPECT\_AFS\_ECU



- (a) Reconnect the steering sensor connector and A40 connector of the AFS ECU.
- (b) Measure the voltage according to the value (s) in the table below.

#### Standard:

Tester@onnection	Condition	Specified[]Voltage
A40 7099 ) DA40 9099 )	Ignition[switch[DN	0 to <u>5</u> V
A40-7[[SS+) -[A40-8[[SS-)		(Pulse@eneration)

### Result:

OK[[When[checking[from[fhe[DIAGNOSTIC[TROUBLE[CODE[CHART]	А
OK[[When[checking[from[the[PROBLEM[SYMPTOMS[TABLE)	В
NG	С

B∏∖

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 5-1369)

С

REPLACE STEERING SENSOR (SEE[PAGE[32-65)



REPLACE[AFS[ECU[[SEE]PAGE[65-28]OR[65-29]