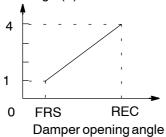
DTC B1432 AIR INLET DAMPER POSITION SENSOR CIRCUIT

CIRCUIT DESCRIPTION

LHD Models:

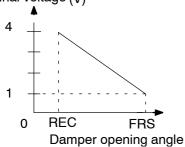
TPI terminal voltage (V)



This sensor detects the position of the air inlet servomotor and sends the appropriate signals to the A/C amplifier. The position sensor is built in the air inlet servomotor.

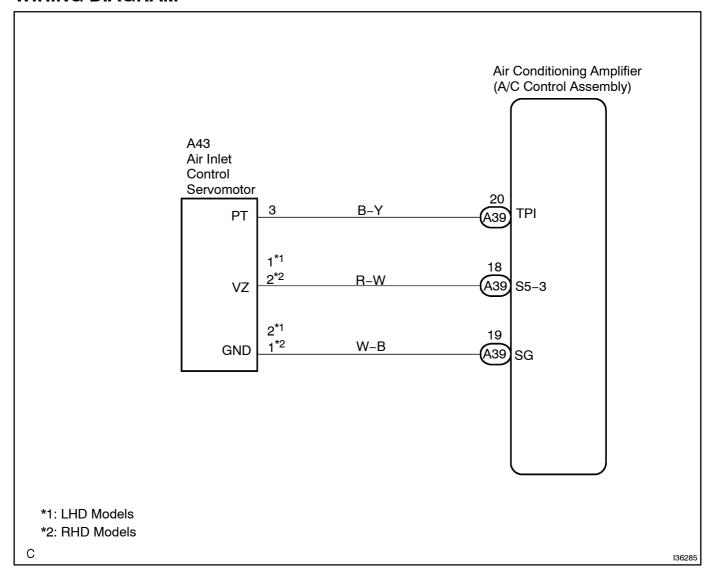
RHD Models:

TPI terminal voltage (V)



DTC No.	Detection Item	Trouble Area
B1432	Air inlet damper position sensor circuit (Open or short)	Air inlet servomotor Harness or connector between air inlet servomotor and A/C amplifier A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

1 | READ[YALUE[ON[INTELLIGENT[TESTER[II

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

DATA LIST AIR CONDITIONER:

Item	Measure⊡tem/Display (Range)	Normal Condition	Diagnostic <u>∏</u> Note
Air[jnlet[damper[position (A/I[Damp[Pos)	Air@nlet@damper@osition@ min.: -14%@nax.:@13.5%	RECIRCULATION:[Approx.[]]% FRESH:[Approx.[]]00%	-
Air[]nlet[damper[]arget[]position (A/I[]Damp[]arg)	Air[]nlet[]damper[]arget[] min.: –14%[]nax.:[]13.5%	RECIRCULATION:[Approx.[0%] FRESH:[Approx.] 00% HARF-RECIRCULATION: 43[]o[99.5[%	-

OK:

The display is as specified in the normal condition.

Result:

NG	А
OK[[Checking[]rom[]he[PROBLEM[\$YMPTOM[TABLE)	В
OK (Checking from the DTC)	С

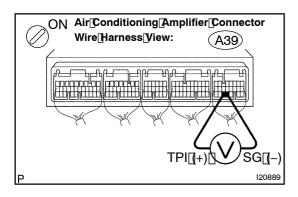
B PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05-778)

С

REPLACE AIR CONDITIONING AMPLIFIER (SEE PAGE 55-15)

Α

2 | INSPECT_AIR_CONDITIONING_AMPLIFIER(TPI - SG)



- (a) Remove[the]A/C[amplifier]with[connectors[still]connected.
- $\begin{tabular}{ll} (b) & Turn & e & e & to &$
- (c) Change the set RECIRC/FRESH to activate the air inlet servomotor.
- (d) Measure[the[voltage]according[to[the[value(s)]in[the[table below.

Standard:

Tester@onnection	Condition	Specified@ondition
A39-20[[TPI) - A39-19[[SG)	RECIRC	3.5[]o[4.5[]V
A39–20[[TPI) – A39–19[[SG)	FRESH	0.5[] o[] .5[]V

HINT:

LHD:

Asthe air inlets ervomotor moves from the RECIRC side to the FRESH side, the voltage decreases gradually without interruption.

RHD:

As[the[air[inlet[servomotor[inoves[from[the]RECIRC[side[to[the FRESH[side,[the]voltage]]ncrease[gradually[without]]nterruption.

Result:

NG	А
OK (Checking[from[f]he[PROBLEM[\$YMPTOMS[TABLE)	В
OK[[Checking]]rom[]he[]DTC)	С

B∏\

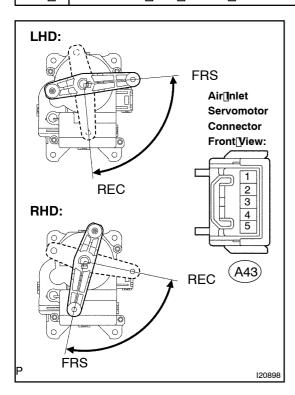
PROCEED TO NEXT CIRCUIT INSPECTION SHOWN NPROBLEM SYMPTOMS TABLE (SEE PAGE 05-778)

C

REPLACE AIR CONDITIONING AMPLIFIER (SEE PAGE 55-16)

Α

3 | INSPECT_AIR INLET SERVOMOTOR



- (a) Remove the air inlet servomotor.
- (b) Measure the resistance according to the value (s) in the table below.

Standard:

Tester@onnection	Condition	Specified@ondition
A43-1[[VZ) - A43-2[[GND)]*1	Always	4.2[] o[] 7.8[] k[]
A43-2[[VZ] - A43-1[[GND]]*2	Always	4.2[jo[] ⁷ .8[jk[] ₂

HINT:

- •□ *1:[LHD
- •□ *2:[RHD
- (c) Measure[the[resistance[according[to[the[value(s)]]n[the table[below.

HINT:

Seepage 05-863 ffor operation procedure ffor the air in let servomotor.

Standard:

Tester@onnection	Condition	Specified@ondition
A43-3[[PT) - A43-2[[GND)]*1	RECIRCULATION	3.4[10[6.2[]k[]]
A43-3[[PT) - A43-2[[GND)[* 1	FRESH	0.8団0団.6団段
A43-3[[PT) - A43-1[[GND)[* 2	RECIRCULATION	3.4[10[6.2[]k[]]
A43-3[[PT) - A43-1[[GND)]*2	FRESH	0.8団0団.6団段

HINT:

- •□ *1:[LHD
- •□ *2:\\R\H\D
- •□ LHD:

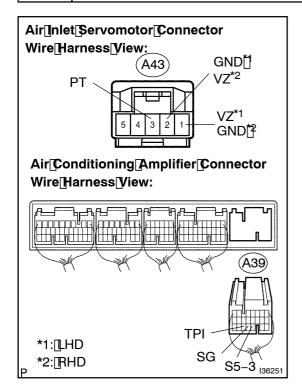
Asthe air inlet servo motor in ovest from fresh to fecirculation, the fresh tance decreases gradually without interruption.

- •□ RHD:
 - As[]the[]air[]nlet[]servomotor[]noves[]from[]resh[]to[]ecirculation,[]the[]resistance[]ncrease[]gradually[]without[]nterruption.
- Seepage 05-863 ffor operation procedure ffor the air inlet servomotor.

NG

REPLACE AIR INLET SERVOMOTOR

4 CHECK[HARNESS[AND]CONNECTOR(AIR[INLET[SERVOMOTOR - [AIR CONDITIONING[AMPLIFIER)][SEE[PAGE[0]1-4]4)



(a) Measure the resistance according to the value (s) in the table below.

Standard:

Tester[connection	Condition	Specified@ondition
A39-20[[TPI] - A43-3[[PT]	Always	Below[] [Ω
A39-18[[S5-3) - A43-1[[VZ][*]1	Always	Below[] [Ω
A39-18[[S5-3) - A43-2[[VZ][[*]]2	Always	Below[] []2
A39-19[[SG) - A43-2[[GND)[] 1	Always	Below[] [Ω
A39-19[[SG) - A43-1[[GND)[] 2	Always	Below[] [Ω
A39–20[[TPI] – Body[ground	Always	10[kᢩᡌ[o̞r[ḫigher
A39–18∏S5–3) – Body[ground	Always	10[k̞͡ᡌᢩᢙr[ħigher
A39−19∏SG) − Body[ground	Always	10隂糜ြpr[higher

HINT:

*1: \\LHD

*2:[RHD

NG

OK

REPLACE[AIR[CONDITIONING[AMPLIFIER[SEE[PAGE[55-16]