

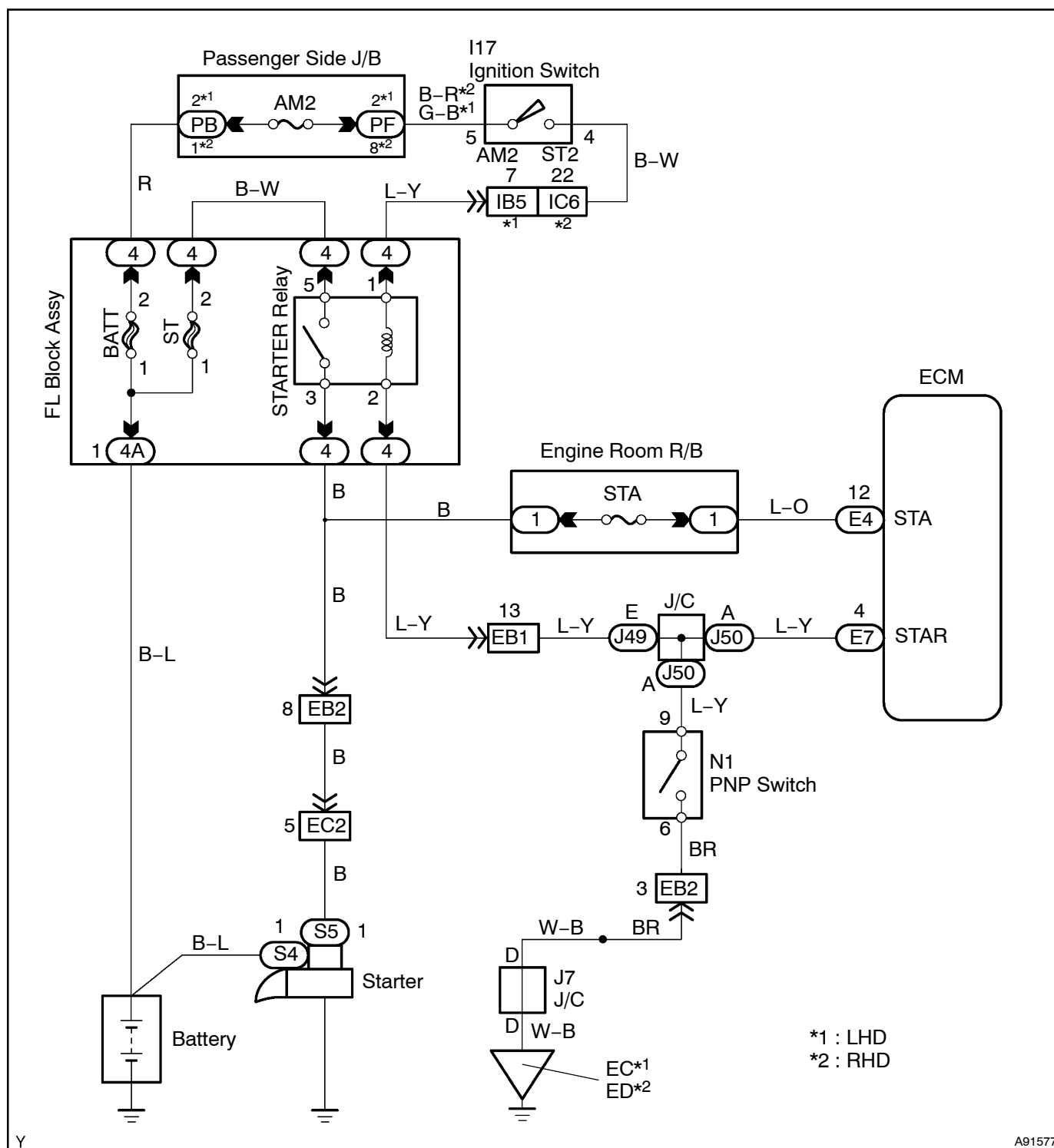
DTC	P0617	STARTER RELAY CIRCUIT HIGH
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CIRCUIT DESCRIPTION

While the engine is being cranked, the battery positive voltage is applied to terminal STA of the ECM. If the ECM detects the Starter Control Signal (STA) while the vehicle is being driven, it will conclude that there is a fault in the starter control circuit. The ECM will turn on the MIL and set a DTC. This monitor runs when the vehicle is driven at 20 km/h (12 mph) for over 20 seconds.

DTC No.	DTC Detecting Condition	Trouble Area
P0617	The following conditions are met for 20 seconds: <ul style="list-style-type: none">• Vehicle speed is greater than 20 km/h (12 mph)• Engine RPM is greater than 1,000 rpm• ECM detects starter signal (STA)	<ul style="list-style-type: none">• Short in Park/Neutral Position (PNP) switch circuit• PNP switch• Ignition switch• ECM

WIRING DIAGRAM



INSPECTION PROCEDURE

1 READ VALUE OF INTELLIGENT TESTER II (STARTER SIGNAL)

- (a) Connect the Intelligent Tester II to the DLC3.
 (b) Turn the ignition switch ON and push the Intelligent Tester II main switch ON.
 (c) Enter the following menus: Enter/ Diagnosis/ OBD-MOBD/ Power train/ Engine and ECT/ Data List/ All Data/ Starter Signal.

Standard:

Ignition Switch Position	ON	START
Starter Signal	OFF	ON

OK

REPLACE ECM

NG

2 INSPECT PARK/NEUTRAL POSITION SWITCH ASSY (See page 05-563)**HINT:**

Move the shift lever to the P or N position. If the Intelligent Tester II indicates that the Neutral Position Switch Signal is ON, the PNP switch is considered to be normal.

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 REPAIR OR REPLACE PNP SWITCH
 (See page 40-10) AND GO TO STEP 3

OK

3 READ VALUE OF INTELLIGENT TESTER II (STARTER SIGNAL)

- (a) Connect the Intelligent Tester II to the DLC3.
 (b) Turn the ignition switch ON and push the Intelligent Tester II main switch ON.
 (c) Enter the following menus: Enter/ Diagnosis/ OBD-MOBD/ Power train/ Engine and ECT/ Data List/ All Data/ Starter Signal.

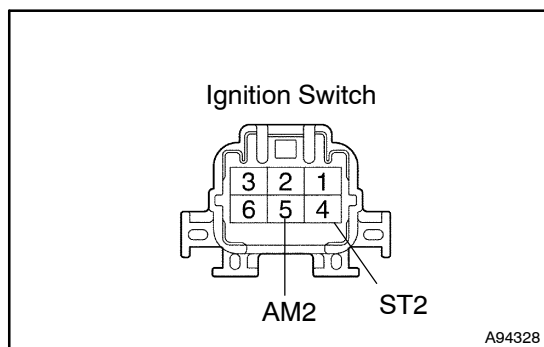
Standard:

Ignition Switch Position	ON	START
Starter Signal	OFF	ON

OK

SYSTEM OK

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4 INSPECT IGNITION SWITCH

Measure the resistance of the ignition switch.

Standard:

Switch Condition	Tester Connection	Specified Condition
ON	4 - 5	Below 1 Ω
START	4 - 5	10 k Ω or higher

NG**REPLACE IGNITION SWITCH AND GO TO STEP 5****OK****5 READ VALUE OF INTELLIGENT TESTER II (STARTER SIGNAL)**

- Connect the Intelligent Tester II to the DLC3.
- Turn the ignition switch ON and push the Intelligent Tester II main switch ON.
- Enter the following menus: Enter/ Diagnosis/ OBD·MOBD/ Power train/ Engine and ECT/ Data List/ All Data/ Starter Signal.

Standard:

Ignition Switch Position	ON	START
Starter Signal	OFF	ON

NG**REPAIR OR REPLACE HARNESS AND CONNECTOR****OK****SYSTEM OK**