

INSPECTION PROCEDURE

HINT:

- This DTC chart is on the premise that the engine is cranked normally. If the engine is not cranked, proceed to the problem symptoms table on page 05-233 .
- Read freeze frame data using the hand-held tester or the OBD II scan tool, as freeze frame data records the engine conditions when a malfunction is detected. When troubleshooting, it is useful for determining whether the vehicle was running or stopped, the engine was warmed up or not, the air-fuel ratio was lean or rich, etc. at the time of the malfunction.

Hand-held tester:

1 READ VALUE OF HAND-HELD TESTER(STA SIGNAL)

- Connect the hand-held tester to the DLC3.
- Turn the ignition switch ON and push the hand-held tester main switch ON.
- Select the item "DIAGNOSIS/ENHANCED OBD II/DATA LIST/ALL/STARTER SIG" and read its value displayed on the hand-held tester.

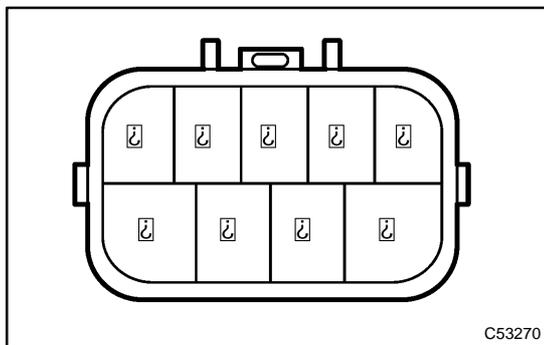
Standard:

Ignition Switch Position	ON	START
STARTER SIG	OFF	ON

OK → **CHECK AND REPLACE ECM (See page 01-35)**

NG

2 INSPECT PARK/NEUTRAL POSITION SWITCH ASSY



- Disconnect the park/neutral position switch connector.
- Check for continuity between each terminal shown below when the shift lever is moved to each range.

Standard:

Shift range	Terminal No.	Specified condition
P	1 - except 3	No continuity
	6 - except 9	
R	2 - except 3	
N	3 - except 5	
	6 - except 9	
D	3 - except 7	
3	3 - except 4	
2, L	3 - except 8	

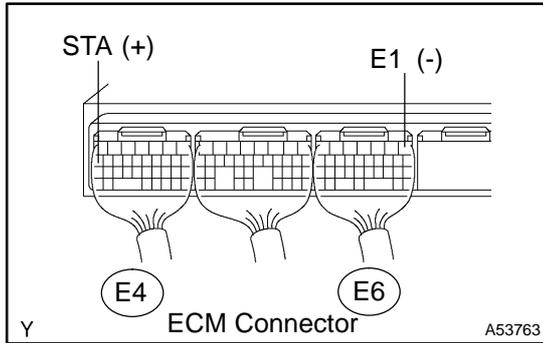
NG → **REPLACE PARK/NEUTRAL POSITION SWITCH ASSY (THEN CHECK FOR CRANKING HOLDING FUNCTION CIRCUIT) (See page 05-233)**

OK

CHECK CRANKING HOLDING FUNCTION CIRCUIT (See page 05-233)

OBD II scan tool (excluding hand-held tester):

1 INSPECT ECM(STA VOLTAGE)



- (a) During the engine cranking, measure the voltage between the terminals of the E4 and E6 ECM connectors.

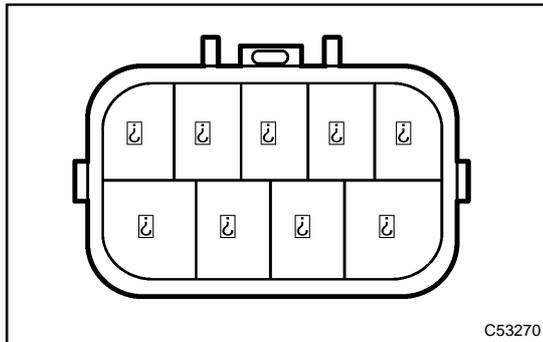
Standard:

Symbols (Terminal No.)	Condition	Specified condition
STA (E4-17) -	Ignition switch ON	Below 0.5 V
E1 (E6-1)	Cranking	9 to 14 V

OK → **CHECK AND REPLACE ECM (See page 01-35)**

NG

2 INSPECT PARK/NEUTRAL POSITION SWITCH ASSY



- (a) Disconnect the park/neutral position switch connector.
- (b) Check for continuity between each terminal shown below when the shift lever is moved to each range.

Standard:

Shift range	Terminal No.	Specified condition
P	1 - except 3	No continuity
	6 - except 9	
R	2 - except 3	
N	3 - except 5	
	6 - except 9	
D	3 - except 7	
3	3 - except 4	
2, L	3 - except 8	

NG → **REPLACE PARK/NEUTRAL POSITION SWITCH ASSY (THEN CHECK FOR CRANKING HOLDING FUNCTION CIRCUIT) (See page 05-233)**

OK

CHECK CRANKING HOLDING FUNCTION CIRCUIT (See page 05-233)