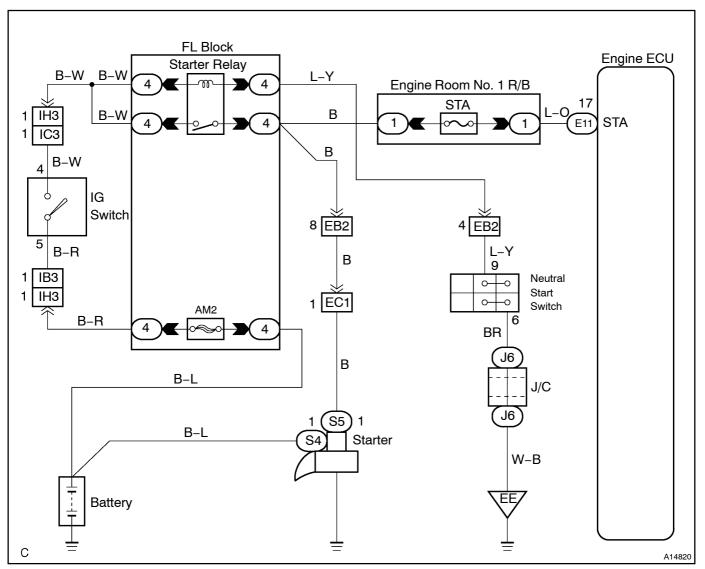
DISBD-01

# **Starter Signal Circuit**

## **CIRCUIT DESCRIPTION**

When the engine is cranked, the intake air flow is slow, so fuel vaporization is poor. A rich mixture is therefore necessary in order to achieve good startability. While the engine is being cranked, the battery positive voltage is applied to terminal STA of the engine ECU. The starter signal id mainly used to increase the fuel injection volume for the starting injection control and after–start injection control.

## **WIRING DIAGRAM**



## **INSPECTION PROCEDURE**

HINT:

This diagnostic hart s based n the premise that the engine s ranked normally. If the engine s hot cranked, proceed of the problem symptoms able n bage 1 - 25.

## When using hand-held tester:

1 Connect[hand-held[tester[and[check[\$TA[signal.

## PREPARATION:

- (a) Connect the hand-held tester to the DLC3.
- (b) Turn the ignition switch ON and push the hand-held tester main switch ON.

#### CHECK:

Read[\$TA[\$ignal[\phon]]he[\phand-held[\texter[\phand]]while[\pstarter[\phand]]hermand-held[\texter[\phand]] and the control of the control of

## OK:

Ignition[\$witch[Position	ON	START
STA[ <b>s</b> ignal	OFF	ON

ок□

Proceed[]o[]next[circuit[]nspection[]shown[]on problem[]symptoms[]table[[See[]page[]DI-25]).

NG

2 Check[for[open[]n[harness[and[connector[between[engine[ECU]and[starter[]elay (Marking:[STARTER)[[See[]page[]N-35).

NG□

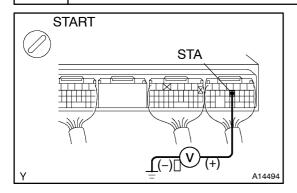
Repair or replace harness or connector.

OK

Check@and@replace@engine@ECU (See@page@N-35).

# When not using hand-held tester:

1 Check[voltage[between[terminal[\$TA[of[engine[ECU[connector[and[body[ground.



## **PREPARATION:**

- (a) Remove[]he[engine[]oom[ECU[cover.
- (b) ☐ Turn the ignition switch ON.

### **CHECK:**

Measure voltage between terminal TA of the engine ECU onnector and body fround, during engine cranking.

### OK:

Voltage: 6 Vor more



Proceed onext circuit nspection shown on problem symptoms able See page DI-25).

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2□

Check[for[open[]n[]harness[and[]connector[]between[]engine[ECU[]and[]starter[]elay (Marking:[]STARTER)[[See[]page[]N-35]).

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Repair or replace harness or connector.

ОК

Checkandreplaceengine ECU (Seepage N-35).