

DTC P1500 Starter Signal Circuit Malfunction

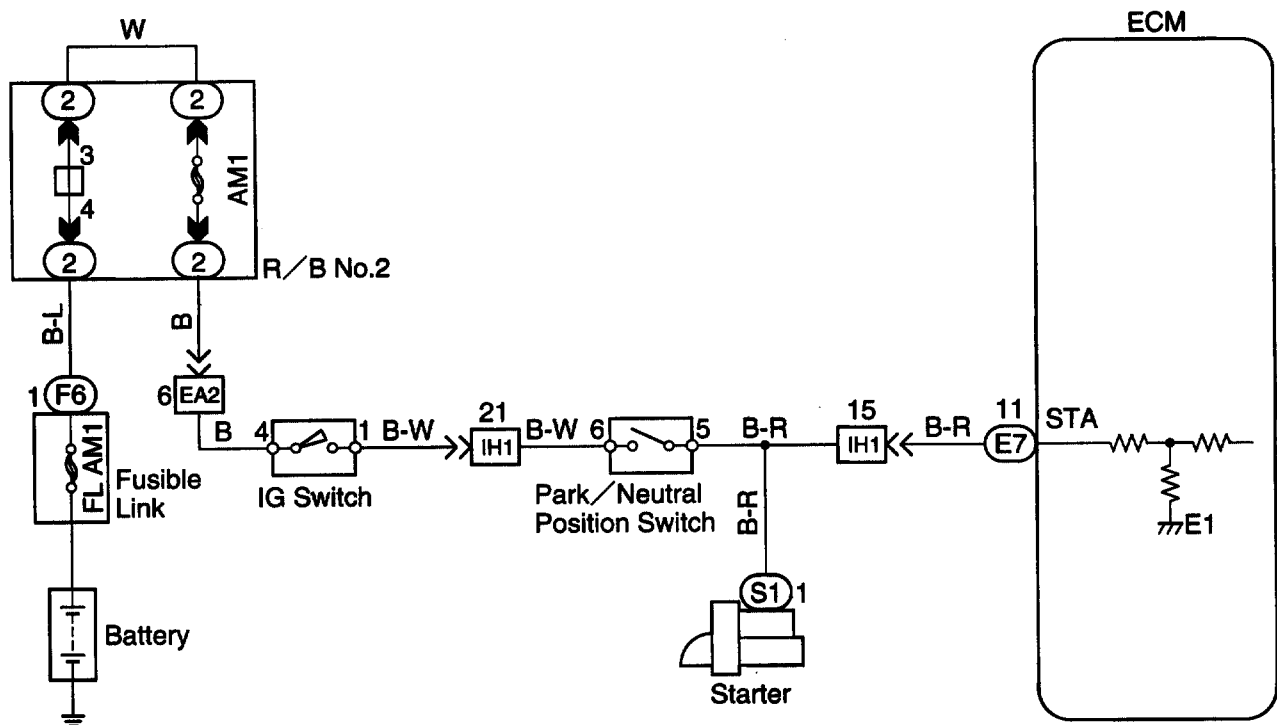
CIRCUIT DESCRIPTION

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 ECM. The starter signal is mainly used to increase the fuel injection volume for the starting injection control and after-start injection control.

DTC No.	Diagnostic Trouble Code Detecting Condition	Trouble Area
P1500	No starter signal to ECM	- Open or short in starter signal circuit - ECM

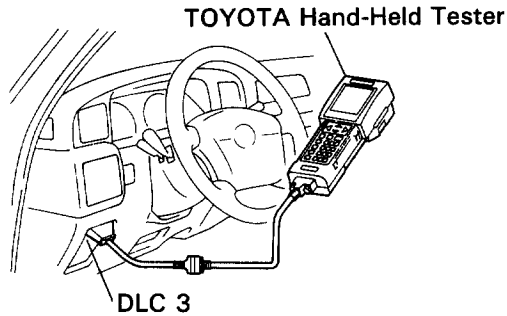
HINT: In this circuit, diagnosis can only be made in the check mode.

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT: This diagnostic chart is based on the premise that the engine is cranked normally. If the engine is not cranked, proceed to the matrix chart of problem symptoms on page [EG-243](#).

1 Connect the TOYOTA hand-held tester and check STA signal.

- P**
- (1) Remove the fuse cover on the instrument panel.
 - (2) Connect the TOYOTA hand-held tester to the DLC 3.
 - (3) Turn ignition switch ON and TOYOTA hand-held tester main switch ON.

C Read STA signal on the TOYOTA hand-held tester while starter operates.

OK

Ignition switch position	STA signal
ON	OFF
START	ON

BE6653
P22892

NG

OK

Proceed to next circuit inspection shown on matrix chart (See page [EG-243](#)).

2 Check for open in harness and connector between ECM and park/neutral position switch (See page [IN-26](#)).

OK

NG

Repair or replace harness or connector.

Check and replace ECM (See page [IN-31](#)).