

Pattern Select Switch Circuit (2nd Start Switch) & 2nd Start Switch Indicator Light Circuit

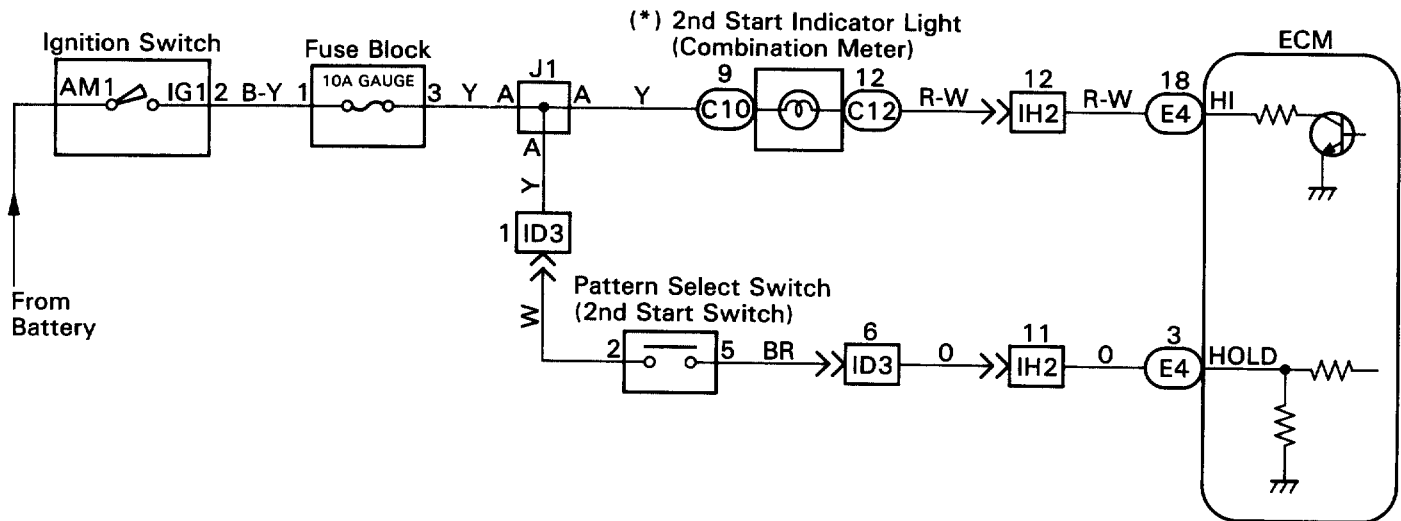
CIRCUIT DESCRIPTION

When 2nd start mode is selected with the pattern select switch, the ECM controls the solenoid valves and the transmission starts from 2nd gear.

In D position, the transmission automatically shifts up through 3rd to O/D as usual.

In 2nd position, the transmission is held in 2nd gear.

WIRING DIAGRAM



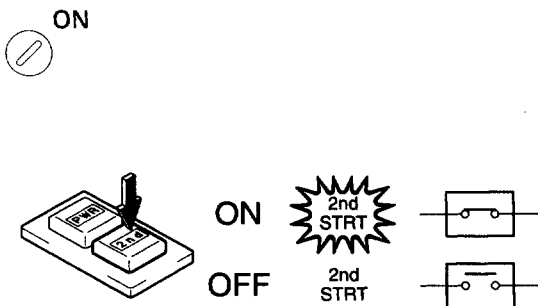
(*) Pattern Select Switch (2nd Start Switch)

When the 2nd start switch is pushed, the switch is contacted and the 2nd mode is selected.

To cancel the 2nd start, push the 2nd start switch once again. The 2nd start is automatically cancelled out when the ignition switch is turned OFF.

INSPECTION PROCEDURE

1 Check operation of 2nd start switch.



- C** 1. Turn ignition switch ON.
2. Check "2nd STRT" indicator light when 2nd start switch is pushed in to ON.

"2nd STRT" indicator light lights up.

- OK** 3. Check "2nd STRT" indicator light when 2nd start switch is pushed again, or PWR mode switch is pushed in to OFF.

C

Read the PWR signal on the TOYOTA hand-held tester.

OK

"2nd STRT" indicator light goes off.

When PWR mode switch is pushed in to ON, "2nd STRT" indicator light goes off, and "PWR" indicator light lights up.

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OK

Proceed to next circuit inspection shown on matrix chart (See page [AT-64](#)).

Go to step 2

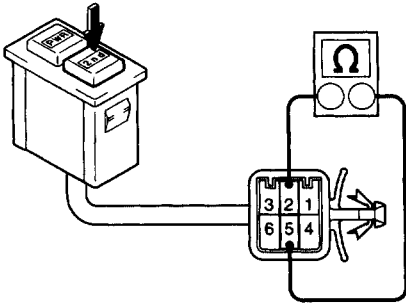
2 Check 2nd start indicator bulb.

OK

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Replace 2nd start indicator bulb.

3 Check 2nd start switch.



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OK

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Replace pattern select switch.

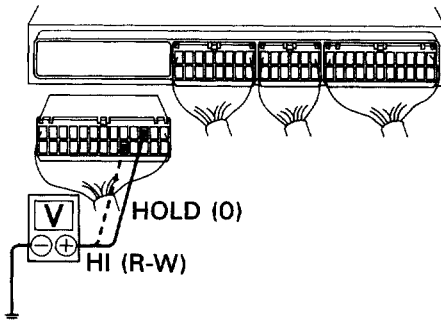
P Disconnect pattern select switch connector. (See page [BO-59](#))

C measure resistance between terminals 2 and 5 of pattern select switch connector when the select switch is set to 2nd start switch ON and OFF.

OK

2nd start switch	Resistance
ON	0 Ω (continuity)
OFF	∞ Ω (open)

4 Check voltage between terminal HOLD or HI of ECM and body ground.



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OK

P

1. Turn ignition switch ON.
2. Disconnect E7 connector of ECM.

C

Check voltage between terminal HOLD of ECM and body ground when the select switch is set to 2nd start switch ON and OFF.

OK

2nd Start Switch	Voltage
ON	9 ~ 14 V
OFF	Below 1.5 V

C

Check voltage between terminal HI of ECM and body ground.

OK

Voltage: 7.5 ~ 14V

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Check and replace harness and connector between battery and pattern select switch, pattern select switch and ECM (See page [IN-26](#)).

Check and replace harness and connector between battery and 2nd start indicator light, 2nd start indicator light and ECM (See page [IN-26](#)).

Check and replace ECM.