DI3H0–03

DTC	C1796 / 96	**Center DIFF. Lock Position Switch Circuit**

CIRCUIT DESCRIPTION

This circuit is sending the signal to the ECU by detecting that the transfer center differential is in the "LOCK" condition.

DTC No.	DTC Detecting Condition	Trouble Area
C1796 / 96	Center diff. lock position switch signal does not change.	• Center diff. lock position switch • Center diff. lock position switch circuit • Suspension control ECU

WIRING DIAGRAM

*1: 2UZ–FE and 1HD–FTE Engine
*2: 1HD–T Engine

F05857
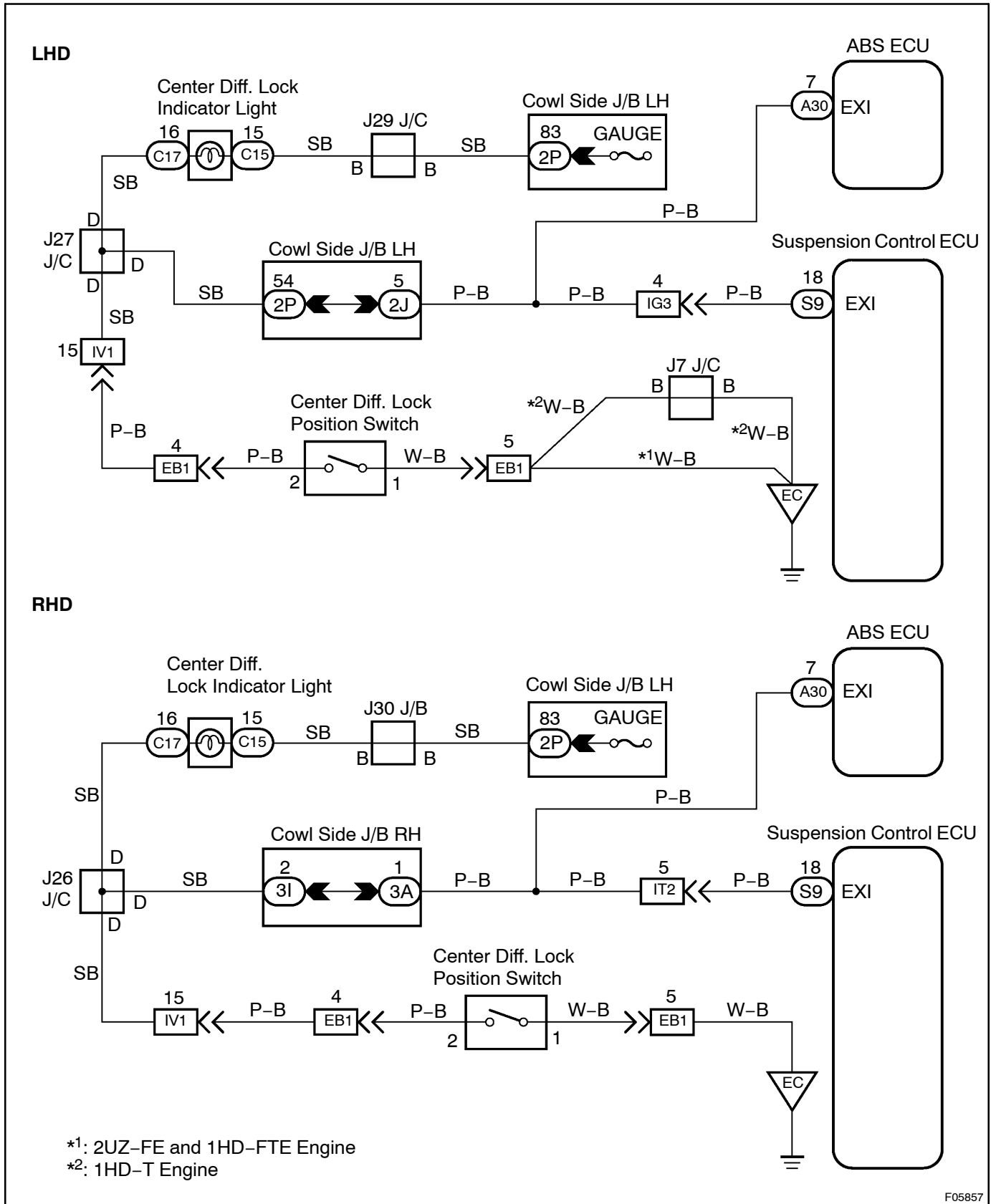
INSPECTION PROCEDURE

1	Check output signal of center diff. lock position switch.

IN CASE OF USING HAND–HELD TESTER:
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.
(c)   Select the DATALIST mode on the hand–held tester.
CHECK:
Check the center diff. lock position switch condition displayed on the hand–held tester when pushing the center diff. lock switch.
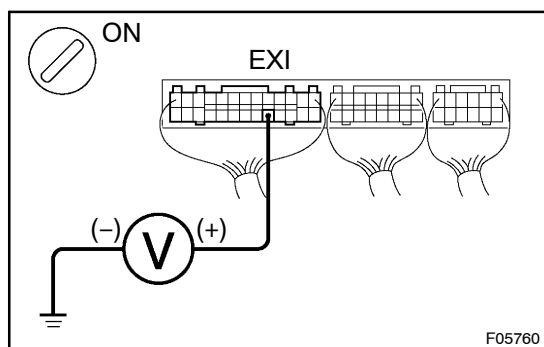**OK:**

> **When the center diff. lock switch pushed once:**
> **"ON" is displayed for center diff. lock position switch condition.**
> **When the center diff. lock switch pushed twice:**
> **"OFF" is displayed for center diff. lock position switch condition.**

F05760

IN CASE OF NOT USING HAND–HELD TESTER:
PREPARATION:
Remove the suspension control ECU with connectors still connected.
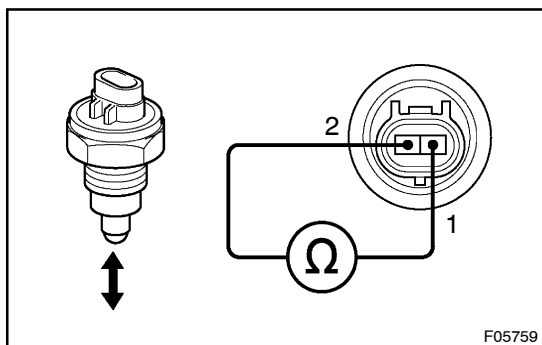**CHECK:**
(a)   Turn the ignition switch ON.
(b)   Measure voltage between terminal EXI of suspension control ECU connector and body ground when the center diff. lock switch is pushed twice.
OK:

Center diff. lock Switch condition	Voltage
Pushed once	Below 1.5 V
Pushed twice	9 – 14 V

OK 〉 **No problem.**

NG

2	Check center diff. lock position switch.

F05759

PREPARATION:
(a)   Disconnect the center diff. lock position switch connector.
(b)   Remove the center diff. lock position switch (See page TR-9).

CHECK:
Measure resistance between the terminal 1 and 2 of center diff. lock position switch connector when the center diff. lock position switch pushed and released.

OK:

Switch condition	Resistance
Pushed	0 Ω (Continuity)
Released	∞ Ω (Open)

NG ⟩	Replace center diff. lock position switch.

OK

3	Check for open and short circuit in harness and connector between center diff. lock position switch and suspension control ECU (See page IN-35).

NG ⟩	Repair or replace harness or connector.

OK

Check and replace suspension control ECU.