DI3GK–04

DTC	C1721 / 21, C1723 / 23	Damping Force Control Actuator Circuit

CIRCUIT DESCRIPTION

ECU sends a signal to damping force control actuator to drive the rotary valve of the shock absorber changing the shock absorber damping force.

The actuator is driven electromagnetically by step motor so that it can accurately follow the driving conditions that change frequently.

DTC No.	DTC Detecting Condition	Trouble Area
C1721 / 21	When detecting the over current detection condition (When the condition that the current between the actuator drive circuit terminal of ECU and GND is 3.5 to 6.0 A or more continued for 1 ± 0.5 msec.) 10 times continuously.	• Front damping force control actuator • Front damping force control actuator circuit • Suspension control ECU
C1723 / 23		• Rear damping force control actuator • Rear damping force control actuator circuit • Suspension control ECU

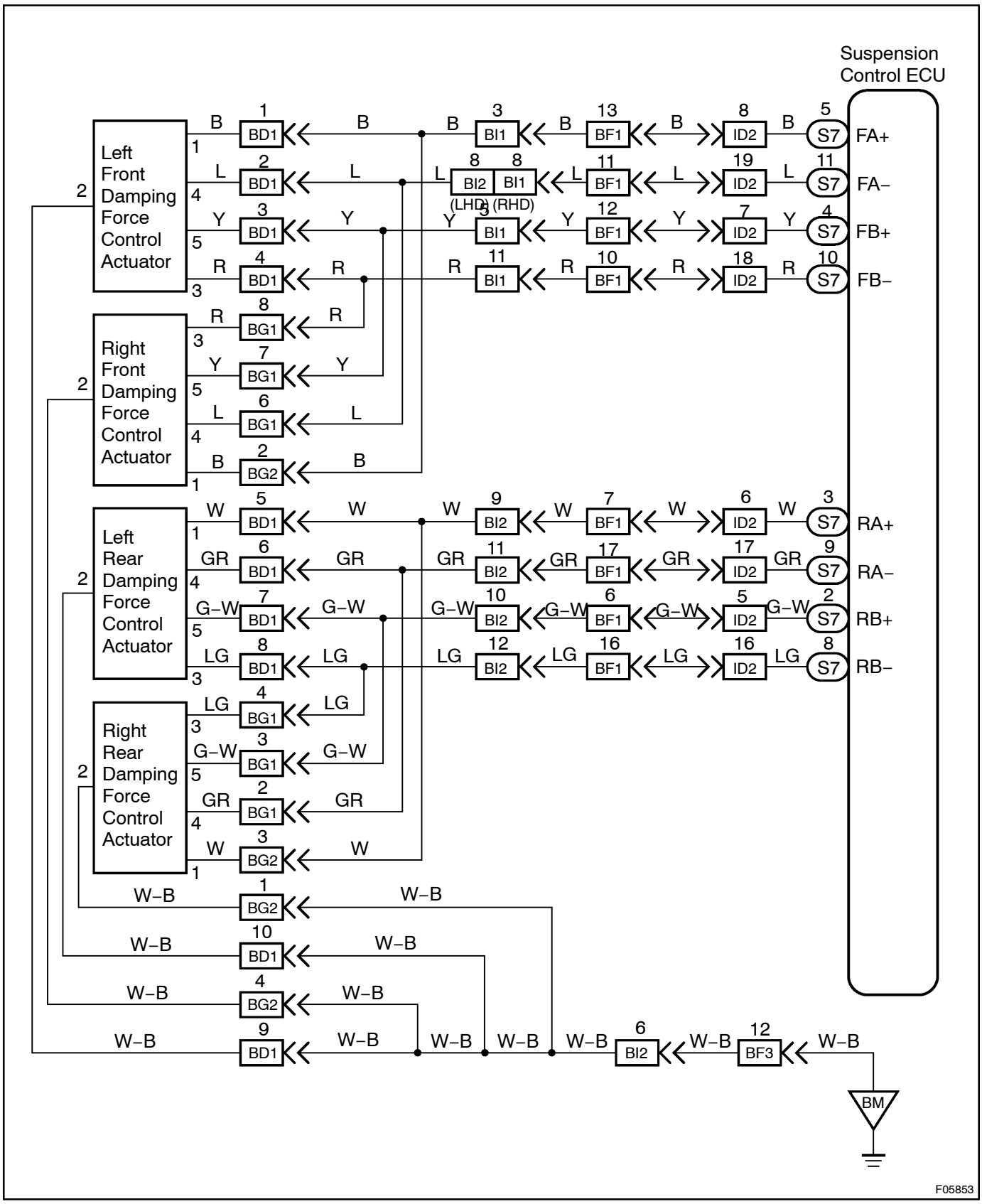
HINT:

- Code C 1721 / 21 corresponds to the front damping force control actuator circuit.
- Code C 1723 / 23 corresponds to the rear damping force control actuator circuit.

Fail safe function:

If trouble occurs in the front or rear wheel damping force control actuator circuit, ECU prohibits the damping force control after the ECU has returned the damping force of the other side wheel to the normal condition.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	**Check operation of damping force control actuator.**

CHECK:

Using the same method as used for the ”DAMPING FORCE CONTROLLING CHECK” (See page DI–208), bounce the vehicle and check that the shock absorber becoming harder.

OK → **Clear the DTC (See page DI–208).**

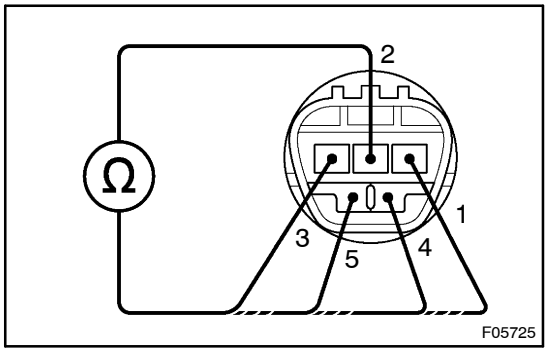
NG

2	**Check for open and short circuit in harness and connector between damping force control actuator and suspension control ECU (See page IN–35).**

NG → **Repair or replace harness or connector.**

OK

3	**Check damping force control actuator.**



PREPARATION:

Disconnect the damping force control actuator connector.

CHECK:

Measure resistance between each terminal of damping force control actuator.

OK:

Terminals 1 and 2	12.0 – 13.6 Ω
Terminals 2 and 3	12.0 – 13.6 Ω
Terminals 2 and 4	12.0 – 13.6 Ω
Terminals 2 and 5	12.0 – 13.6 Ω

NG → **Replace damping force control actuator.**

OK

Clear the DTC (See page DI–208).