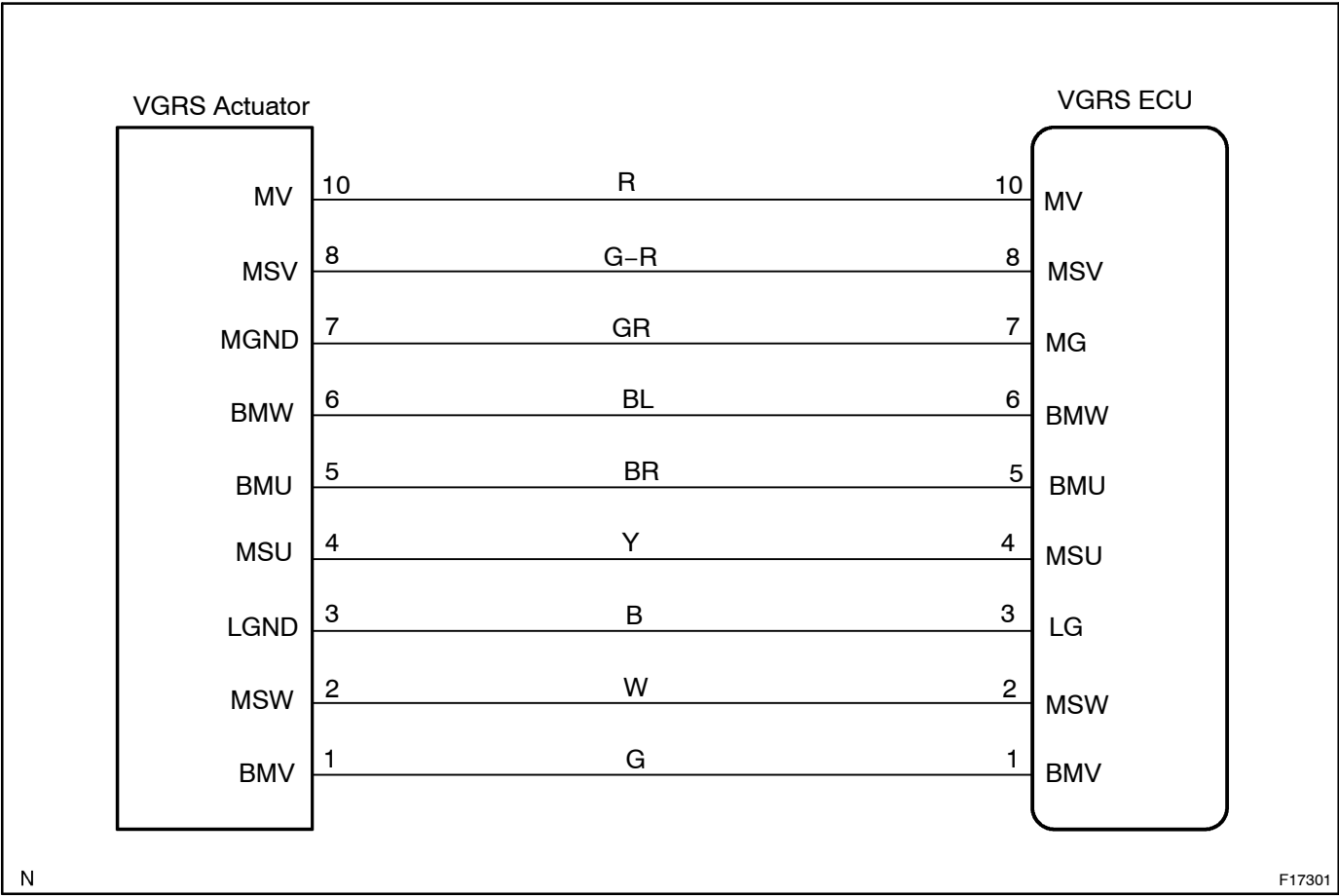DIASK−01

DTC	C1561 / 61	Lock Mechanism Malfunction

CIRCUIT DESCRIPTION

When the VGRS ECU detects a malfunction in the lock mechanism, it turns the warning light on, records the DTC, and stops VGRS operation.

DTC No.	DTC Detecting Condition	Trouble Area
C1561/61	The system detects that the LG terminal voltage is equal to battery voltage x 0.4 ± 3 V, or that the LG terminal voltage is outside the range of battery voltage x 0.6 ± 3 V for 1.2 sec.	• VGRS actuator • VGRS ECU

WIRING DIAGRAM

VGRS Actuator

VGRS ECU

MV	10	R	10	MV	
MSV	8	G–R	8	MSV	
MGND	7	GR	7	MG	
BMW	6	BL	6	BMW	
BMU	5	BR	5	BMU	
MSU	4	Y	4	MSU	
LGND	3	B	3	LG	
MSW	2	W	2	MSW	
BMV	1	G	1	BMV	

N

F17301

INSPECTION PROCEDURE

1	Check the position of the VGRS ECU connectors.

CHECK:
Check that VGRS ECU connectors are properly connected to the ECU.
OK:
   Connection is good.

NG > DTC C1561/61 is detected because the connector is disconnected or is likely to be disconnected. Connect the connector correctly.

OK

2	Check for an open or short circuit in the harness and connector (See page IN−38).

PREPARATION:
(a)   Turn the ignition switch OFF.
(b)   Disconnect the VGRS ECU connector.
CHECK:
Measure resistance between terminals MV and LG of the VGRS ECU connector.
OK:
   1 to 100 Ω
CHECK:
Check continuity between terminals MV and LG of the VGRS ECU and body ground.
OK:
   No continuity

H MV   LG   F17774

NG > Replace VGRS actuator.

OK

Replace VGRS ECU.