

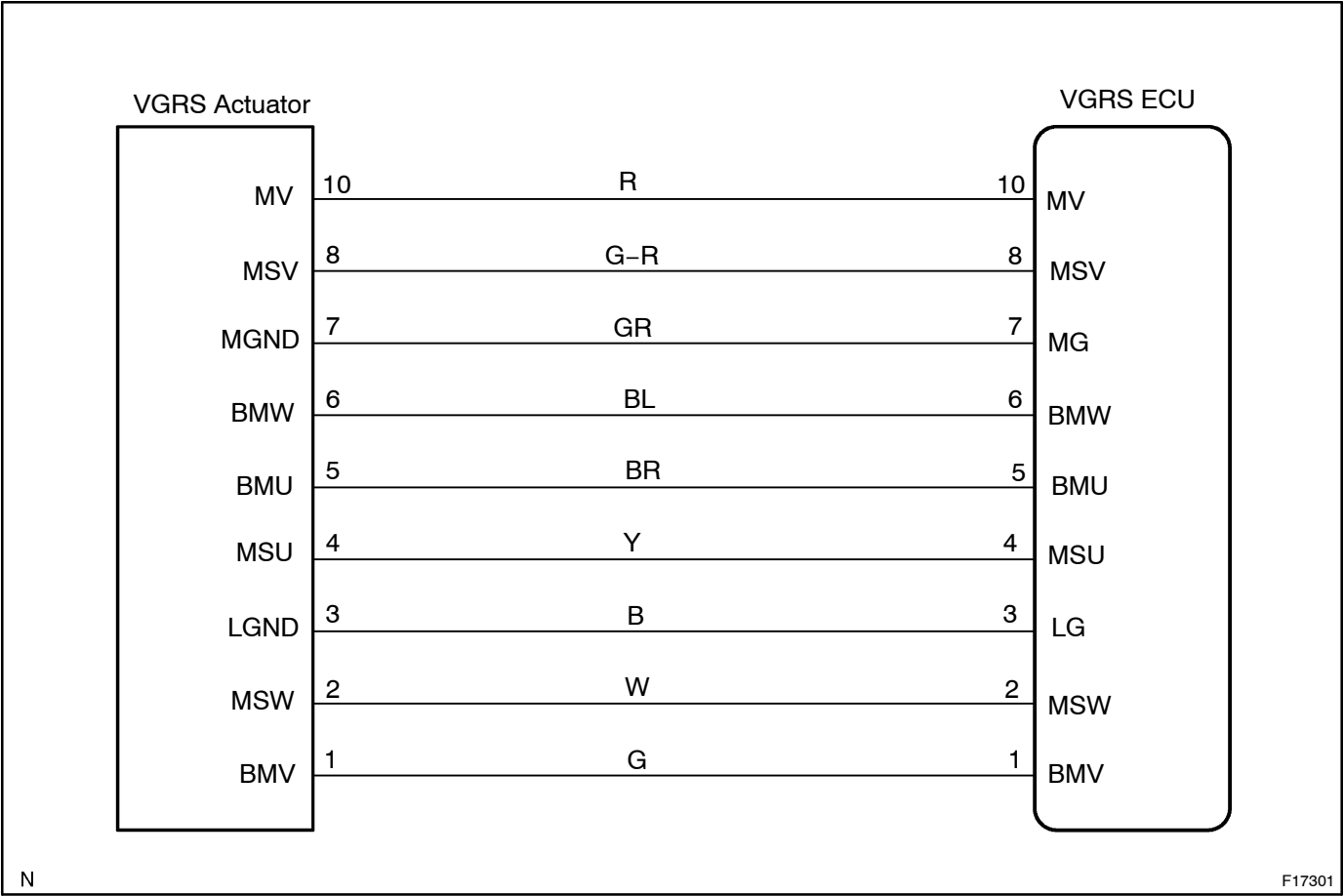
DTC	C1522 / 22	VGRS Actuator Malfunction
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CIRCUIT DESCRIPTION

The VGRS ECU drives the actuator based on the steering angle sensor signal and the vehicle speed signal. If the VGRS ECU detects excessive current flowing into the actuator, or a malfunction inside the ECU, it turns on the warning light, records the DTC, and stops VGRS operation.

DTC No.	DTC Detecting Condition	Trouble Area
C1522/22	The system detects a malfunction in the motor drive circuit.	•VGRS actuator •VGRS ECU

WIRING DIAGRAM

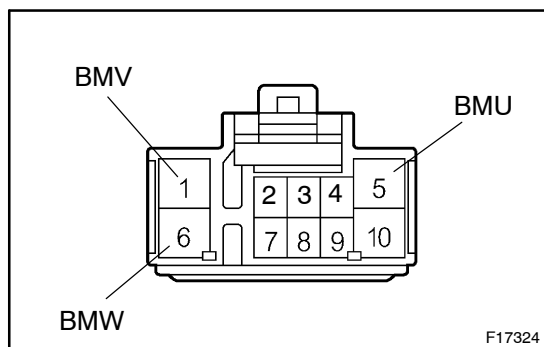


INSPECTION PROCEDURE

HINT:

Since only the actuator can be checked in this procedure, if it is normal, the VGRS ECU is faulty.

1 Inspect the VGRS actuator for an open circuit.



PREPARATION:

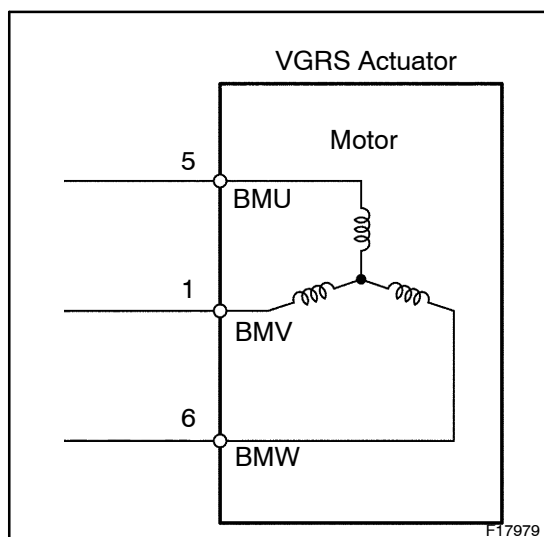
- (a) Turn the ignition switch OFF.
- (b) Disconnect the actuator connector from the VGRS ECU.

CHECK:

- (a) Check resistance between terminals of the actuator connector.

OK:

Symbols (Terminals)	Resistance
BMV (1) – BMU (5)	0.1 Ω to 1 Ω
BMU (5) – BMW (6)	



- (b) Check continuity between terminals of the actuator connector and body ground.

OK:

Symbols (Terminals)	Specified condition
BMV (1) – Body ground	No Continuity
BMU (5) – Body ground	
BMW (6) – Body ground	

OK

Replace VGRS ECU.

NG

Replace VGRS actuator.