DIASM-01

DTC C1568 68 Lock Holder Deviation Detection

CIRCUIT DESCRIPTION

The VGRS actuator contains allock mechanism that mechanically locks the DC motor so the motor will not rotate if a failure occurs or when the engine is not funning. The VGRS CU supplies current to the lock solenoid for elease the lock ever for VGRS operation.

When the VGRS ECU detects a malfunction in the lock holder, it durns the warning that and records the DTC.

DTC[No.	DTC[Detecting[Condition	Trouble[Area		
C1568/68	The[system@letects@limalfunction[in]the@actuator[lock[system.	• ☑GRS[actuator		

INSPECTION PROCEDURE

HINT:

Determine the trouble area by the cking the motor evolution angle sensor signal with thand-held tester. When the true is an all with the cking that the cking the ckin

1 Observ

Observe[the[data[for[MTR[REV[ANG[U,[V,[W]on[the[hand-held[tester.]

PREPARATION:

- (a) ☐ Connect The Thand-held Tester To TDLC3.
- (b) Turn the ignition switch ON. Engine stop)
- (c) ☐ Turn The Steering Wheel To The Tight and Teft.
- (d) ☐ Using The Thand-held Tester, This play The Thata Tist.

CHECK:

Check[the[motor]]evolution[angle[sensor]signal]when[slowly[turning[the[steering]]wheel[]eferring[to[the[data list.

OK:

A, Bor Cas shown below

	A		В		С	
	turn[to[left	turn[t lo[r ight	turn[t o[]eft	turn[t lo[r ight	turn to left	turn to right
MTR REV ANG U	High	High	High	High	High	High
MTR REV ANG V	Low	Low	Low	Low	High	Low
MTR REV ANG W	Low	Low	Low	High	Low	Low

NG

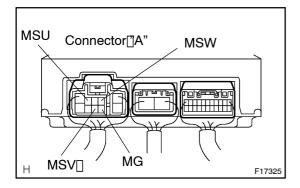
Replace VGRS actuator.

OK

Perform VGRS system calibration (See page DI-357).

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Check[the[voltage[motor[revolution[angle[sensor[signal.



PREPARATION:

Turn[the[ignition[switch[ON.

CHECK:

Measure[the]voltage[between[terminals[in]the]vGRS[ECU]while slowly[turning[the]steering[wheel.

OK:

A, Bor Cas shown below

	A		В		С	
	turn[to]]eft	turn[to[right	turn[to]]eft	turn[to[right	turn[t lo[l left	turn[to[right
MSU[[A4) -[]MG (A7)	Above[3.5[V	Above[3.5[V	Above[3.5[V	Above[3.5[V	Above[3.5[V	Above[3.5[V
MSV[[A8] -[]MG (A7)	Below 1[]V	Below 1[]V	Below 1[]V	Below 1[]V	Above[3.5[V	Below 1[]V
MSW[[A2) -[MG (A7)	Below 1[]V	Below 1[V	Below 1[V	Above[3.5[V	Below 1[]V	Below 1 V

NG

Replace VGRS actuator.

OK

PerformVGRS system calibration (See page DI-357).