



M.U.T.-III SE Function

APPLICABLE ITEM

Diagnosis mode	Description
Self Diagnostic Result	Display DTC which TCM memorizes
Data List	Displays TCM input/output data in real time
Special Function	• Displays TCM part number • This mode enables a technician to adjust some devices faster and more accurately
CALIB DATA	The calibration data status of TCM can be checked

SELF DIAGNOSTIC RESULTS

Display Item List

Refer to [DTC Index](#) .

How to Read DTC

DTC is displayed on “Self Diagnostic results” of M.U.T.-III SE.

When DTC is currently detected, “Active DTC” is displayed. If “Stored DTC” is displayed, it shows a malfunction occurred in the past.

How to Erase DTC

note

If the ignition switch is left ON after repair, turn OFF the ignition switch and wait for 10 seconds or more. Then, turn the ignition ON again. (Engine stop)

1. Touch “SHIFT” of M.U.T.-III SE.
 2. Touch “Self Diagnostic Result”.
 3. Touch “Erase DTCs”. (DTC memorized in electric shift control module is erased.)
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Freeze Frame Data (FFD)

The following vehicle status is recorded when DTC is detected and is displayed on M.U.T.-III SE.

Monitored item	Displayed contents
ODO/TRIP METER	Displays the mileage at the time the malfunction is detected.
DTC count (Count)	Displays the number of times DTC is detected.

DATA MONITOR

note

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to M.U.T.-III SE display items.

Monitored item	(Unit)	Remarks
Range position		Displays the position recognized by the electric shift control module
Shift position judgment		Displays the shift input position recognized by the electric shift control module
Target shift position		Displays the target shift position recognized by the electric shift control module
Actual shift position		Displays the shift position signal received from TCM
Vehicle state		Displays the status of vehicle • State1: Ignition switch OFF • State2: Ignition switch is ACC • State3: Ignition switch is ON (Engine is stopped) • State4: While engine starting • State5: Engine started
Shift sensor 1		Displays the signal value of electric shift sensor No. 1
Shift sensor 2		Displays the signal value of electric shift sensor No. 2
Shift sensor 3		Displays the signal value of electric shift sensor No. 3
Shift sensor 4		Displays the signal value of electric shift sensor No. 4
Shift sensor 5		Displays the signal value of electric shift sensor No. 5
Shift sensor 6		Displays the signal value of electric shift sensor No. 6
Shift sensor 7		Displays the signal value of electric shift sensor No. 7
Shift sensor 8		Displays the signal value of electric shift sensor No. 8
Shift switch 1		Displays the signal value of P position switch No. 1
Shift switch 2		Displays the signal value of P position switch No. 2
Power supply relay A		Displays the command value from the electric shift control module to shift actuator relay A
Power supply relay B		Displays the command value from the electric shift control module to shift actuator relay B
Ignition switch		Displays the input status of the ignition switch

Monitored item	(Unit)	Remarks
Power supply voltage		Displays the status of battery voltage
ECU power 1		Monitors the power supply of electric shift control module and displays the status
Main power voltage	(V)	Monitors the voltage value of the main power supply for the electric shift control module and displays the monitored value
ECU power 2		Monitors the power supply of electric shift control module and displays the status
Motor A U voltage	(V)	Displays the motor A U-phase terminal voltage A/D converted value
Motor A V voltage	(V)	Displays the motor A V-phase terminal voltage A/D converted value
Motor A W voltage	(V)	Displays the motor A W-phase terminal voltage A/D converted value
Motor B U voltage	(V)	Displays the motor B U-phase terminal voltage A/D converted value
Motor B V voltage	(V)	Displays the motor B V-phase terminal voltage A/D converted value
Motor B W voltage	(V)	Displays the motor B W-phase terminal voltage A/D converted value
Shift sensor 1 voltage	(V)	Displays the voltage value of electric shift sensor No. 1
Shift sensor 2 voltage	(V)	Displays the voltage value of electric shift sensor No. 2
Shift sensor 3 voltage	(V)	Displays the voltage value of electric shift sensor No. 3
Shift sensor 4 voltage	(V)	Displays the voltage value of electric shift sensor No. 4
Shift sensor 5 voltage	(V)	Displays the voltage value of electric shift sensor No. 5
Shift sensor 6 voltage	(V)	Displays the voltage value of electric shift sensor No. 6
Shift sensor 7 voltage	(V)	Displays the voltage value of electric shift sensor No. 7
Shift sensor 8 voltage	(V)	Displays the voltage value of electric shift sensor No. 8
Shift switch 1 voltage	(V)	Displays the voltage value of P position switch No. 1
Shift switch 2 voltage	(V)	Displays the voltage value of P position switch No. 2

WORK SUPPORT

Function name	Item name	Description
ECU Information	-	Displays TCM part number
Learned value clear	ACTUATOR LERNING VALVE ELIMINATION	Erases learning value memorized by electric shift control module.