

GENERAL

OUTLINE OF CHANGES

Due to the addition of vehicles with the M-ASTC (where applicable), the M-ATC (where applicable) and the 4LLc indicator lamp, the service procedure different from the previous one has been established.

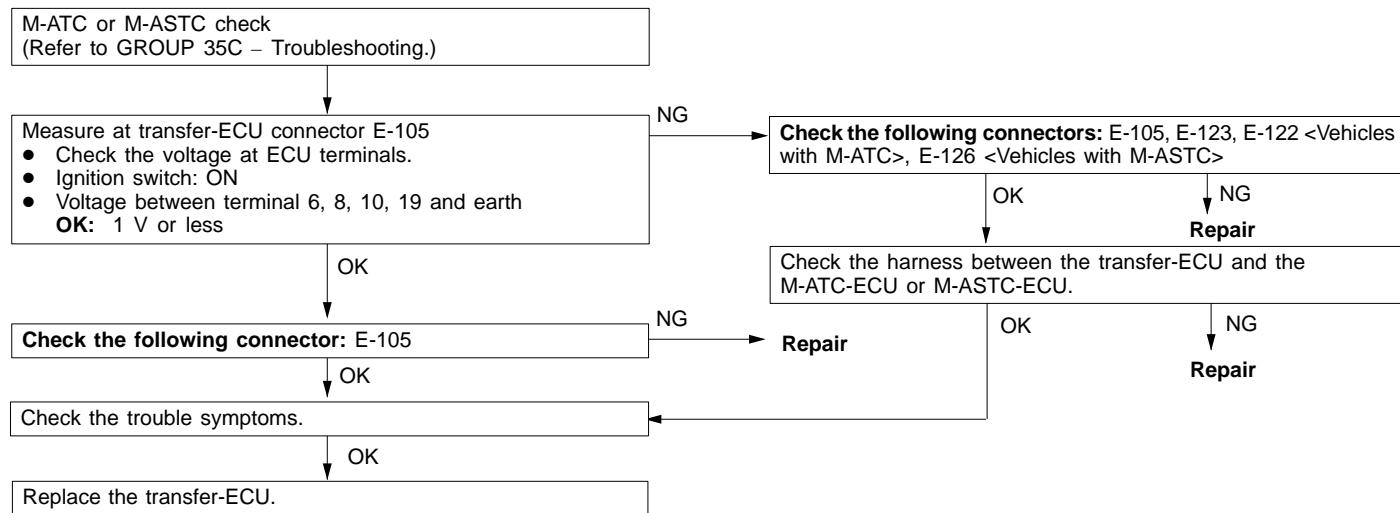
TROUBLESHOOTING <SS4 II>

INSPECTION CHART FOR DIAGNOSIS CODE

Code	Diagnosis item	Reference page
61	M-ATC-ECU or M-ASTC-ECU signal <Vehicles with M-ATC or M-ASTC>	Open circuit 23-1

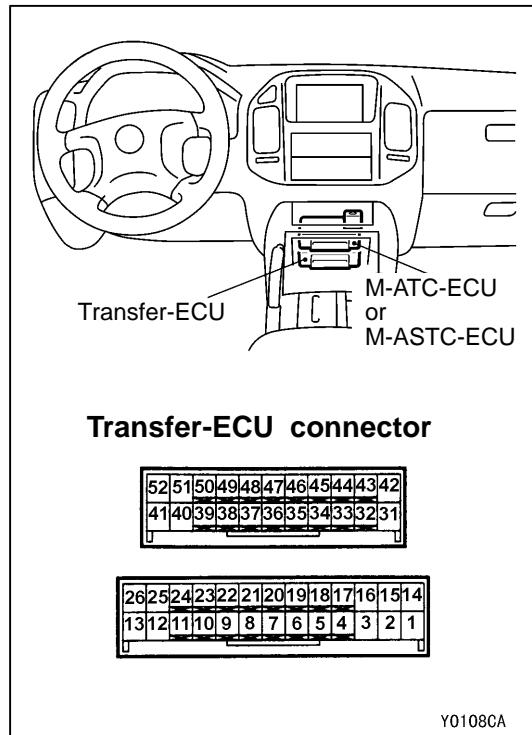
INSPECTION PROCEDURES FOR DIAGNOSIS CODES

Code No. 61 M-ATC-ECU or M-ASTC-ECU signal <Vehicles with M-ATC or M-ASTC>	Probable cause
When all signal lines become open circuit, Code No. 61 is output.	<ul style="list-style-type: none"> Malfunction of harness or connector Malfunction of the transfer-ECU Malfunction of M-ATC or M-ASTC



DATA LIST REFERENCE TABLE

Item No.	Check item	Inspection conditions	Normal condition
39	M-ATC-ECU or M-ASTC-ECU signal (FR)	M-ATC or M-ASTC activated (Front right wheel)	ON
		M-ATC or M-ASTC deactivated (Front right wheel)	OFF
40	M-ATC-ECU or M-ASTC-ECU signal (FL)	M-ATC or M-ASTC activated (Front left wheel)	ON
		M-ATC or M-ASTC deactivated (Front left wheel)	OFF
41	M-ATC-ECU or M-ASTC-ECU signal (RR)	M-ATC or M-ASTC activated (Rear right wheel)	ON
		M-ATC or M-ASTC deactivated (Rear right wheel)	OFF
42	M-ATC-ECU or M-ASTC-ECU signal (RL)	M-ATC or M-ASTC activated (Rear left wheel)	ON
		M-ATC or M-ASTC deactivated (Rear left wheel)	OFF



TRANSFER-ECU TERMINAL VOLTAGE TABLE

NOTE <Vehicles with M-ATC or M-ASTC>
The ECU located at the upper rear of the floor console is either M-ATC-ECU or M-ASTC-ECU, and the ECU located at the lower is transfer-ECU.

Terminal No.	Check item	Inspection conditions	Standard value
6	M-ATC-ECU or M-ASTC-ECU signal (FR) <Vehicles with M-ATC or M-ASTC>	Ignition switch: ON	1 V or less
8	M-ATC-ECU or M-ASTC-ECU signal (RL) <Vehicles with M-ATC or M-ASTC>	Ignition switch: ON	1 V or less
10	M-ATC-ECU or M-ASTC-ECU signal (RR) <Vehicles with M-ATC or M-ASTC>	Ignition switch: ON	1 V or less
19	M-ATC-ECU or M-ASTC-ECU signal (FL) <Vehicles with M-ATC or M-ASTC>	Ignition switch: ON	1 V or less
37	2WD indicator lamp (RL) <Vehicles with M-ATC or M-ASTC>	Selector lever position: N Transfer shift lever position: 4HLC ↔ 4LLC	After switching back and forth between system voltage and 1 V or less, the voltage is maintained at the system voltage.
		Selector lever position: N Transfer shift lever position: 2H ↔ 4H ↔ 4HLC	System voltage
38	4WD indicator lamp (FL) <Vehicles with M-ATC or M-ASTC>	Selector lever position: N Transfer shift lever position: 2H	1 V or less
		Selector lever position: N Transfer shift lever position: Other than the above	Switching back and forth between system voltage and 1 V or less.
48	2WD indicator lamp (RR) <Vehicles with M-ATC or M-ASTC>	Selector lever position: N Transfer shift lever position: 4HLC ↔ 4LLC	After switching back and forth between system voltage and 1 V or less, the voltage is maintained at the system voltage.
		Selector lever position: N Transfer shift lever position: 2H ↔ 4H ↔ 4HLC	System voltage
49	4WD indicator lamp (FR) <Vehicles with M-ATC or M-ASTC>	Selector lever position: N Transfer shift lever position: 2H	1 V or less
		Selector lever position: N Transfer shift lever position: Other than the above	Switching back and forth between system voltage and 1 V or less
52	4LLC indicator lamp	Selector lever position: N Transfer shift lever position: 4LLC	1 V or less
		Selector lever position: N Transfer shift lever position: Other than the above	System voltage