

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.

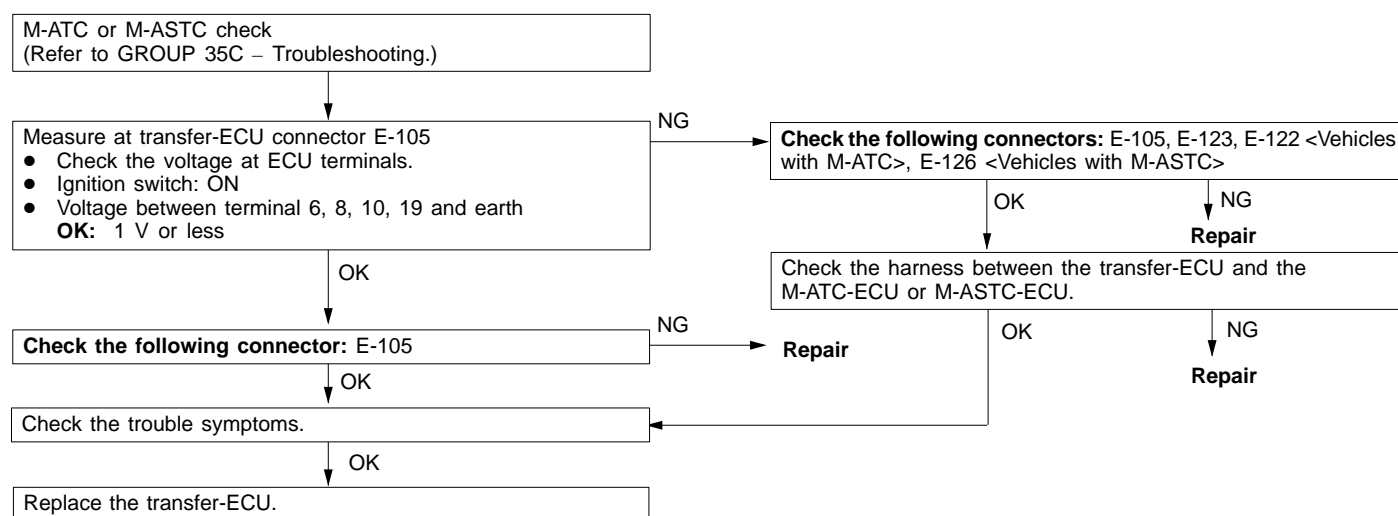
TROUBLESHOOTING <SS4 II>

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 |

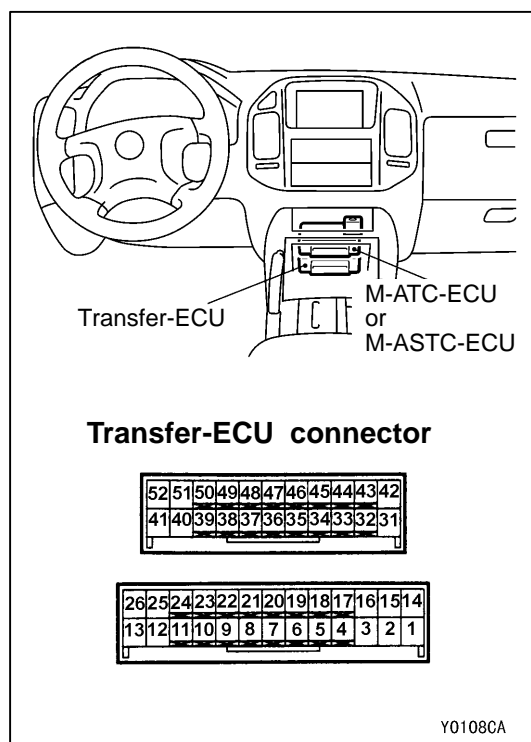
INSPECTION PROCEDURES FOR DIAGNOSIS CODES

| 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 |