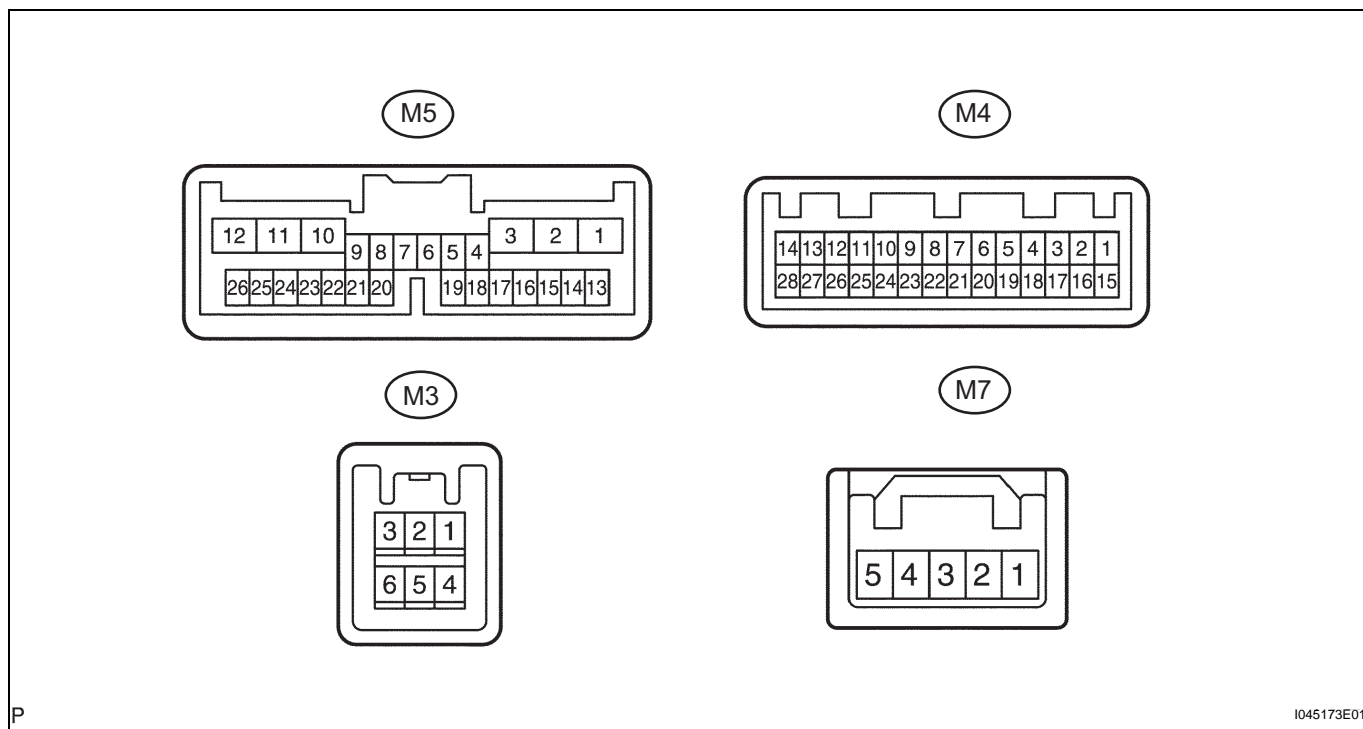


TERMINALS OF ECU

1. MULTI-DISPLAY:



P

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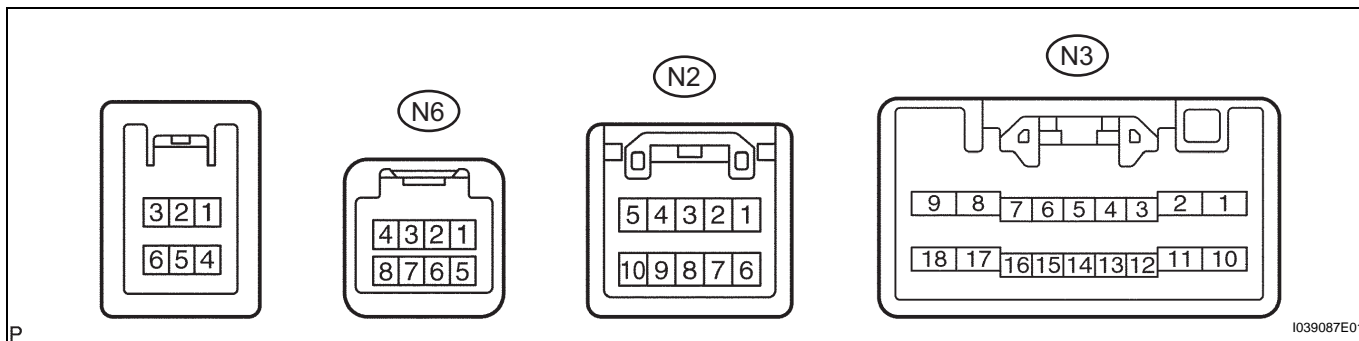
NS

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specification
V+ (M3-1) - GND (M5-3)	G - W-B	Display signal	DVD is played on multi-display	A waveform synchronized with display signals is output.
V- (M3-4) - Body ground	R - Body ground	Ground	Always	Below 1 V
SLD (M3-5) - Body ground	Shielded - Body ground	Shielded ground	Always	Below 1 V
GND (M4-3) - Body ground	W-B - Body ground	Ground	Always	Below 1 V
MIC+ (M4-4) - GND (M5-3)	G - W-B	Microphone voice signal	See "microphone check" (See page NS-22)	-
MIC- (M4-5) - Body ground	R - Body ground	Microphone voice signal	See "microphone check" (See page NS-22)	-
MACC (M4-6) - GND (M5-3)	Y - W-B	Microphone AMP power supply	Turn ignition switch OFF → ON	Below 1 V → 5 V
TX+ (M4-13) - GND (M5-3)	P - W-B	AVC-LAN communication signal	Turn ignition switch to ACC	2 to 3 V
TX- (M4-14) - GND (M5-3)	L - W-B	AVC-LAN communication signal	Turn ignition switch to ACC	2 to 3 V
SLD (M4-17) - Body ground	Shielded - Body ground	Shielded ground	Always	Below 1 V
MCO+ (M4-18) - GND (M5-3)	BR - W-B	Microphone voice signal	See "microphone check" (See page NS-22)	-
MCO- (M4-19) - GND (M5-3)	Y - W-B	Microphone voice signal	See "microphone check" (See page NS-22)	-
SLD (M4-20) - Body ground	Shielded - Body ground	Shielded ground	Always	Below 1 V
IVO+ (M4-21) - IVO- (M4-22)	R - G	Telephone voice signal (bluetooth)	Multi-display is receiving the other caller's voice signals via Bluetooth.	A waveform synchronized with sounds is output.
VR (M4-23) - GND (M5-3)	Y - W-B	Video return signal	Turn ignition switch OFF	Below 1 V

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specification
R (M4-24) - GND (M5-3)	L - W-B	Display signal (red)	Navigation display is on	A waveform synchronized with display signals is output.
G (M4-25) - GND (M5-3)	W - W-B	Display signal (green)	Navigation display is on	A waveform synchronized with display signals is output.
B (M4-26) - GND (M5-3)	R - W-B	Display signal (blue)	Navigation display is on	A waveform synchronized with display signals is output.
SYNC (M4-27) - GND (M5-3)	BR - W-B	Display signal (synchronize)	Navigation display is on	A waveform synchronized with display signals is output.
VG (M4-28) - GND (M5-3)	Shielded - Body ground	Shielded ground	Always	Below 1 V
ILL+ (M5-1) - GND (M5-3)	G - W-B	Illumination signal	Turn ignition switch OFF → ON	Below 1 V → 10 to 14 V
ILL- (M5-2) - Body ground	W - Body ground	Illumination signal	Turn ignition switch OFF → ON	Below 1 V → 10 to 14 V
GND (M5-3) - Body ground	W-B - Body ground	Ground	Always	Below 1 V
TX1+ (M5-4) - GND (M5-3)	Y - W-B	AVC-LAN communication signal	Turn ignition switch to ACC	2 to 3 V
TX1- (M5-5) - GND (M5-3)	BR - W-B	AVC-LAN communication signal	Turn ignition switch to ACC	2 to 3 V
TC (M5-7) - GND (M5-3)	P - W-B	Diagnosis ON signal	Turn ignition switch to ON	9 to 14 V
F (M5-8) - GND (M5-3)	V - W-B	Hazard signal	Turn hazard switch OFF → ON	Below 1 V → 10 to 14 V or below 1 V
LIN (M5-9) - GND (M5-3)	Y - W-B	Passenger airbag ON indicator	Ignition SW ON Passenger airbag on indicator OFF → ON	Below 1 V → 10 to 14 V
IG (M5-10) - GND (M5-3)	LG - W-B	Ignition (ON)	Turn ignition switch OFF → ON	Below 1 V → 10 to 14 V
ACC (M5-11) - GND (M5-3)	GR - W-B	Accessory (ON)	Turn ignition switch OFF → ACC or ON	Below 1 V → 10 to 14 V
+B1 (M5-12) - GND (M5-3)	G - W-B	Battery	Always	10 to 14 V
PKB (M5-16) - GND (M5-3)	W - W-B	Parking brake signal	Turn parking brake switch ON → OFF	Below 1 V → 10 to 14 V
ADIM (M5-17) - GND (M5-3)	SB - W-B	Illumination (auto dimmer) signal	Ignition switch ON, light control switch TAIL or ON and automatic light control sensor covered by hand	Above 9 V
TX2+ (M5-18) - GND (M5-3)	R - W-B	AVC-LAN communication signal	Turn ignition switch to ON	2 to 3 V
TX2- (M5-19) - GND (M5-3)	B - W-B	AVC-LAN communication signal	Turn ignition switch to ON	2 to 3 V
AIR (M5-20) - GND (M5-3)	BR - W-B	Passenger airbag OFF indicator	Ignition SW ON Passenger airbag off indicator OFF → ON	Below 1 V → 10 to 14 V
PBEW (M5-21) - GND (M5-3)	O - W-B	Passenger (front) seat belt warning signal	Turn ignition switch to ON, front passenger seat and front seat buckle switch ON (Belt unfastened) → OFF (Belt fastened)	10 to 14 V → Below 1 V
SPD (M5-25) - GND (M5-3)	SB - W-B	Speed signal from combination meter	See "Vehicle Signal Check Mode" (See page NS-20)	-
HSY (M7-1) - GND (M5-3)	P - W-B	Theft deterrent indicator signal	Insert ignition key → Remove key from ignition key cylinder	Below 1 V → Pulse generation

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specification
ILL- (M7-5) - Body ground	W - Body ground	Illumination signal	Turn ignition switch OFF → ON	Below 1 V → 10 to 14 V

2. NAVIGATION ECU:

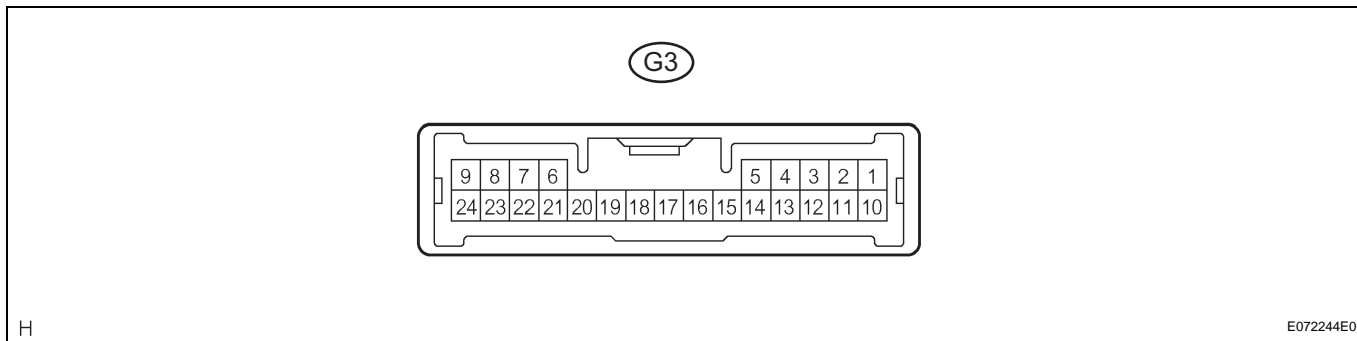


Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specification
VR (N2-1) - GND1 (N3-17)	Y - W-B	Video return signal	Turn ignition switch OFF	Below 1 V
R (N2-2) - GND1 (N3-17)	G - W-B	Display signal (red)	Navigation display is on	A waveform synchronized with display signals is output.
B (N2-3) - GND1 (N3-17)	R - W-B	Display signal (blue)	Navigation display is on	A waveform synchronized with display signals is output.
TX+ (N2-5) - GND1 (N3-17)	R - W-B	AVC-LAN communication signal	Turn ignition switch to ACC	2 to 3 V
VG (N2-6) - Body ground	Shielded - Body ground	Shielded ground	Always	Below 1 V
G (N2-7) - GND1 (N3-17)	W - W-B	Display signal (green)	Navigation display is on	A waveform synchronized with display signals is output.
SYNC (N2-8) - GND1 (N3-17)	B - W-B	Display signal (synchronize)	Navigation display is on	A waveform synchronized with display signals is output.
TX- (N2-10) - GND1 (N3-17)	Y - W-B	AVC-LAN communication signal	Turn ignition switch to ACC	2 to 3 V
AUI+ (N3-1) - GND1 (N3-17)	Y - W-B	Sound signal (input)	Audio system is playing	A waveform synchronized with sounds is output.
AUO+ (N3-2) - GND1 (N3-17)	BR - W-B	Sound signal (output)	Audio system is playing	A waveform synchronized with sounds is output.
SPD (N3-5) - GND1 (N3-17)	SB - W-B	Speed signal from combination meter	See "Vehicle Sensors" Mode (See page NS-22)	-
+B (N3-9) - GND1 (N3-17)	L - W-B	Battery	Always	10 to 14 V
AUI- (N3-10) - GND1 (N3-17)	LG - W-B	Sound signal (input)	Audio system is playing	A waveform synchronized with sounds is output.
AUO- (N3-11) - GND1 (N3-17)	R-Y - W-B	Sound signal (output)	Audio system is playing	A waveform synchronized with sounds is output.
VOI+ (N3-12) - VOI- (N3-13)	R - G	Telephone voice signal (bluetooth)	Multi-display is receiving the other caller's voice signals via Bluetooth.	A waveform synchronized with sounds is output.
REV (N3-14) - GND1 (N3-17)	R - W-B	Reverse signal from combination meter	See "Vehicle Sensors" Mode (See page NS-22)	-
MUT2 (N3-15) - GND1 (N3-17)	V - W-B	Mute signal	Audio system is playing → Changing	Above 3.5 V → Below 1 V
GND1 (N3-17) - Body ground	W-B - Body ground	Ground	Always	Below 1 V
ACC (N3-18) - GND1 (N3-17)	P - W-B	Accessory (ON)	Turn ignition switch OFF → ACC or ON	Below 1 V → 10 to 14 V

NS

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specification
MIC+ (N6-3) - GND1 (N3-17)	BR - W-B	Microphone voice signal	See "microphone check" (See page NS-22)	-
MIC- (N6-5) - GND1 (N3-17)	Y - W-B	Microphone voice signal	See "microphone check" (See page NS-22)	-
SNSE (N6-7) - Body ground	W-B - Body ground	Microphone connection detection signal	Always	Below 1 V

3. NETWORK GATEWAY ECU:



Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specification
IG (G3-1) - GND (G3-24)	Y - W-B	Ignition (ON)	Turn ignition switch OFF → ON	Below 1 V → 10 to 14 V
GTX+ (G3-6) - GND (G3-24)	R - W-B	AVC-LAN communication signal	Turn ignition switch to ACC	2 to 3 V
BATT (G3-10) - GND (G3-24)	SB - W-B	Battery	Always	10 to 14 V
ACC (G3-2) - GND (G3-24)	L - W-B	Accessory (ON)	Turn ignition switch OFF → ACC or ON	Below 1 V → 10 to 14 V
GTX- (G3-21) - GND (G3-24)	B - W-B	AVC-LAN communication signal	Turn ignition switch to ACC	2 to 3 V
GND (G3-24) - Body ground	W-B - Body ground	Ground	Always	Below 1 V

HINT:

When trouble occurs in the network gateway ECU, the following symptoms are also confirmed simultaneously.

- "Outside temperature" is not indicated on the multi-display.
- "Vehicle information" is not indicated on the multi-display.
- Unable to operate the air conditioner system.

4. **RADIO RECEIVER** (See page AV-11)
5. **STEREO COMPONENT AMPLIFIER** (See page AV-11)
6. **TELEVISION CAMERA ECU** (See page PM-11)
7. **MULTI-DISPLAY CONTROLLER** (See page AV-163)