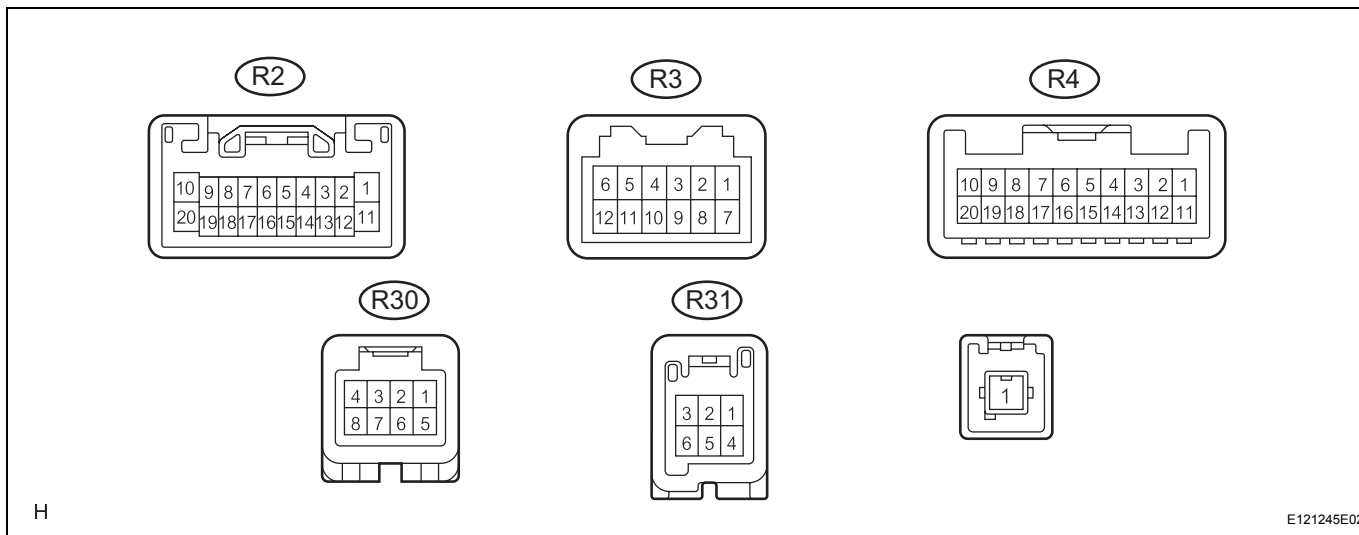


TERMINALS OF ECU

1. RADIO RECEIVER



H

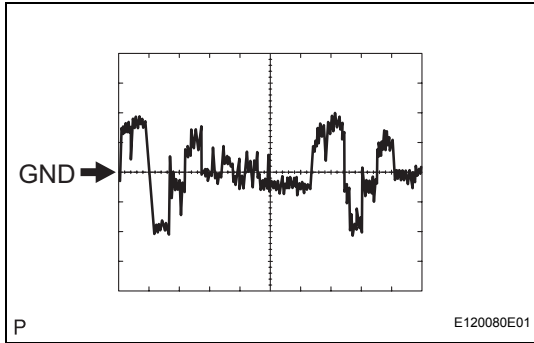
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Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specification
B (R2-1) - GND (R2-20)	SB - BR	Battery	Always	10 to 14 V
ILL+ (R2-2) - GND (R2-20)	G - BR	Illumination signal	Light control switch OFF	Below 1 V
ILL+ (R2-2) - GND (R2-20)	G - BR	Illumination signal	Light control switch TAIL	10 to 14 V
ATX+ (R2-5) - GND (R2-20)	SB - BR	AVC-LAN communication signal	Turn ignition switch to the ACC position	2 to 3 V
MUTE (R2-7) - GND (R2-20)	Y - BR	Mute signal	Audio system is playing	Above 3.5 V
MUTE (R2-7) - GND (R2-20)	Y - BR	Mute signal	Audio system is changing	Below 1 V
R+ (R2-8) - GND (R2-20)	B - BR	Sound signal (Right)	Audio system is playing	A waveform synchronized with sounds is output
L+ (R2-9) - GND (R2-20)	R - BR	Sound signal (Left)	Audio system is playing	A waveform synchronized with sounds is output
SLD (R2-10) - Body ground	Shielded - Body ground	Shielded ground	Always	Below 1 V
ACC (R2-11) - GND (R2-20)	GR - BR	Accessory (ON)	Turn ignition switch off	Below 1 V
ACC (R2-11) - GND (R2-20)	GR - BR	Accessory (ON)	Turn ignition switch to the ACC position	10 to 14 V
ILL- (R2-12) - GND (R2-20)	W - BR	Illumination signal	Light control switch OFF	Below 1 V
ILL- (R2-12) - GND (R2-20)	W - BR	Illumination signal	Light control switch TAIL	10 to 14 V
ANT (R2-13) - GND (R2-20)	O - BR	Power source of antenna	Radio switch ON and AM or FM	10 to 14 V
ATX- (R2-15) - GND (R2-20)	GR - BR	AVC-LAN communication signal	Turn ignition switch to the ACC position	2 to 3 V
R- (R2-18) - GND (R2-20)	W - BR	Sound signal (Right)	Audio system is playing	A waveform synchronized with sounds is output
L- (R2-19) - GND (R2-20)	G - BR	Sound signal (Left)	Audio system is playing	A waveform synchronized with sounds is output
GND (R2-20) - Body ground	BR - Body ground	Ground	Always	Below 1 V
CSLD (R3-1) - Body ground (*5)	Shielded - Body ground	Shielded ground	Always	Below 1 V
CDR+ (R3-2) - GND (R2-20) (*5)	L - BR	Sound signal from RSE	RSE system is playing	A waveform synchronized with sounds is output
CDR- (R3-3) - GND (R2-20) (*5)	O - BR	Sound signal from RSE	RSE system is playing	A waveform synchronized with sounds is output
CDL+ (R3-4) - GND (R2-20) (*5)	Y - BR	Sound signal from RSE	RSE system is playing	A waveform synchronized with sounds is output

AV

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specification
CDL- (R3-5) - GND (R2-20) (*5)	V - BR	Sound signal from RSE	RSE system is playing	A waveform synchronized with sounds is output
MUTE (R3-6) - GND (R2-20) (*5)	BR - BR	MUTE signal from RSE	RSE system is playing	Above 3.5 V
MUTE (R3-6) - GND (R2-20) (*5)	BR - BR	MUTE signal from RSE	RSE system is changing	Below 1 V
TX+ (R3-9) - GND (R2-20)	B - BR	AVC-LAN communication signal	Turn ignition switch to the ON position	2 to 3 V
TX- (R3-10) - GND (R2-20)	W - BR	AVC-LAN communication signal	Turn ignition switch to the ON position	2 to 3 V
SWG (R4-6) - GND (R2-20)	O - BR	Steering pad switch ground	Always	Below 1 V
SW1 (R4-7) - GND (R2-20)	G - BR	Steering pad switch signal	Steering pad switch not operated	4 V or more
SW1 (R4-7) - GND (R2-20)	G - BR	Steering pad switch signal	SEEK+ switch pushed	Approx. 0.5 V
SW1 (R4-7) - GND (R2-20)	G - BR	Steering pad switch signal	SEEK- switch pushed	Approx. 0.9 V
SW1 (R4-7) - GND (R2-20)	G - BR	Steering pad switch signal	VOL+ switch pushed	Approx. 2.0 V
SW1 (R4-7) - GND (R2-20)	G - BR	Steering pad switch signal	VOL- switch pushed	Approx. 3.4 V
SW2 (R4-8) - GND (R2-20)	V - BR	Steering pad switch signal	Steering pad switch not operated	4 V or more
SW2 (R4-8) - GND (R2-20)	V - BR	Steering pad switch signal	MODE switch pushed	Approx. 0.5 V
SW2 (R4-8) - GND (R2-20) (*1)	V - BR	Steering pad switch signal	ON HOOK switch pushed	Approx. 0.9 V
SW2 (R4-8) - GND (R2-20) (*1)	V - BR	Steering pad switch signal	OFF HOOK switch pushed	Approx. 2.0 V
SW2 (R4-8) - GND (R2-20) (*1)	V - BR	Steering pad switch signal	VOICE switch pushed	Approx. 3.4 V
TX+ (R4-9) - GND (R2-20) (*4)	R - BR	AVC-LAN communication signal	Turn ignition switch to the ACC position	2 to 3 V
TX- (R4-10) - GND (R2-20) (*4)	B - BR	AVC-LAN communication signal	Turn ignition switch to the ACC position	2 to 3 V
ADIM (R4-20) - GND (R2-20)	P - BR	Illumination (auto dimmer) signal	Ignition switch on, headlight dimmer switch in TAIL or ON and automatic light control sensor covered by hand	Above 9 V
NTSC (R30-1) - GND (R2-20) (*1, *3)	R - BR	DVD image signal	DVD played on multi-display	Pulse generation Refer to waveform 1
GND (R30-2) - Body ground (*1, *3)	G - Body ground	Ground	Always	Below 1 V
SLD (R30-3) - Body ground (*1, *3)	Shielded - Body ground	Shielded - Body ground	Always	Below 1 V
VV+ (R31-1) - GND (R2-20) (*3, *5)	R - BR	DVD image signal	DVD played on television display assembly	Pulse generation Refer to waveform 1
VV- (R31-4) - GND (R2-20) (*3, *5)	G - BR	Ground	Always	Below 1 V
VA- (R31-5) - Body ground (*3, *5)	Shielded - Body ground	Shielded - Body ground	Always	Below 1 V

- *1: with Navigation System
- *2: for CD Changer Models
- *3: for DVD Changer Models
- *4: without Navigation System
- *5: with Rear Seat Entertainment System

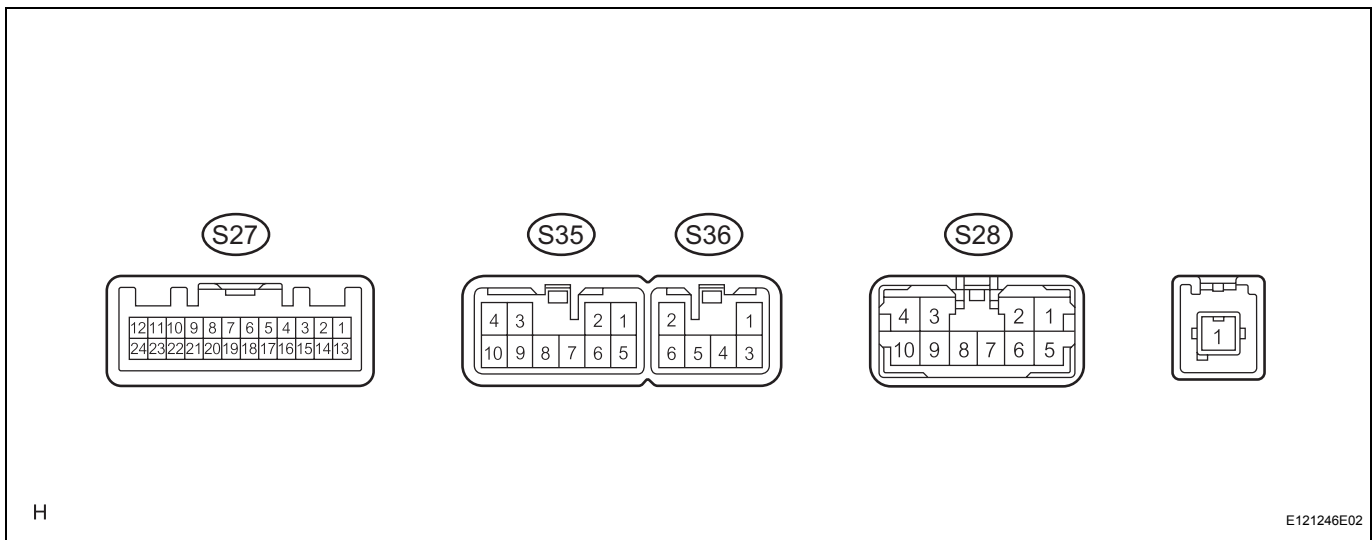


(a) Reference: waveform 1

HINT:

- Terminal: NTSC or VV+ - Body ground
- Setting: 200 mV/DIV, 10 μ s/DIV
- Condition: DVD display is ON.

2. STEREO COMPONENT AMPLIFIER (WITH FRONT CENTER SPEAKER)



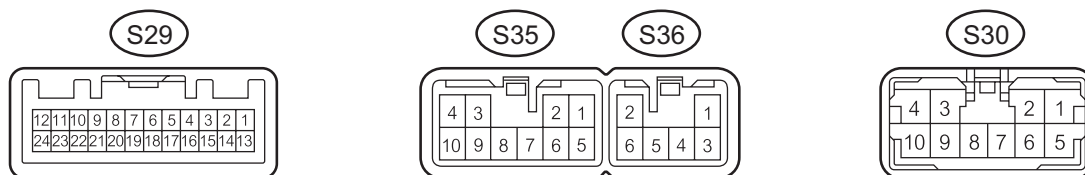
AV

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specification
B+ (S36-1) - GND (S36-2)	G - W-B	Battery	Always	10 to 14 V
GND (S36-2) - Body ground	W-B - Body ground	Ground	Always	Below 1 V
B+ (S36-3) - GND (S36-2)	O - W-B	Battery	Always	10 to 14 V
GND (S36-6) - Body ground	W-B - Body ground	Ground	Always	Below 1 V
CH7+ (S35-3) - GND (S36-2)	GR - W-B	Sound signal (Front center)	Audio system is playing	A waveform synchronized with sounds is output
CH6+ (S35-4) - GND (S36-2)	V - W-B	Sound signal (Front left)	Audio system is playing	A waveform synchronized with sounds is output
CH7- (S35-9) - GND (S36-2)	B - W-B	Sound signal (Front center)	Audio system is playing	A waveform synchronized with sounds is output
CH6- (S35-10) - GND (S36-2)	W - W-B	Sound signal (Front left)	Audio system is playing	A waveform synchronized with sounds is output
CH5+ (S28-1) - GND (S36-2)	P - W-B	Sound signal (Front right)	Audio system is playing	A waveform synchronized with sounds is output
CH4+ (S28-2) - GND (S36-2)	BR - W-B	Sound signal (Front left)	Audio system is playing	A waveform synchronized with sounds is output
CH2+ (S28-3) - GND (S36-2)	R - W-B	Sound signal (Rear left)	Audio system is playing	A waveform synchronized with sounds is output
CH1+ (S28-4) - GND (S36-2)	L-B - W-B	Sound signal (Rear right)	Audio system is playing	A waveform synchronized with sounds is output
CH5- (S28-5) - GND (S36-2)	L-B - W-B	Sound signal (Front right)	Audio system is playing	A waveform synchronized with sounds is output

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specification
CH4- (S28-6) - GND (S36-2)	R-Y - W-B	Sound signal (Front left)	Audio system is playing	A waveform synchronized with sounds is output
CH3- (S28-7) - GND (S36-2)	P - W-B	Sound signal (Front right)	Audio system is playing	A waveform synchronized with sounds is output
CH3+ (S28-8) - GND (S36-2)	V - W-B	Sound signal (Front right)	Audio system is playing	A waveform synchronized with sounds is output
CH2- (S28-9) - GND (S36-2)	GR - W-B	Sound signal (Rear left)	Audio system is playing	A waveform synchronized with sounds is output
CH1- (S28-10) - GND (S36-2)	P - W-B	Sound signal (Rear right)	Audio system is playing	A waveform synchronized with sounds is output
MUTE (S27-1) - GND (S36-2)	V - W-B	Mute signal	Audio system is playing	Above 3.5 V
MUTE (S27-1) - GND (S36-2)	V - W-B	Mute signal (Front center)	Audio system is changing	Below 1 V
L- (S27-2) - GND (S36-2)	R - W-B	Sound signal (Left)	Audio system is playing	A waveform synchronized with sounds is output
L+ (S27-3) - GND (S36-2)	G - W-B	Sound signal (Left)	Audio system is playing	A waveform synchronized with sounds is output
R- (S27-4) - GND (S36-2)	B - W-B	Sound signal (Right)	Audio system is playing	A waveform synchronized with sounds is output
R+ (S27-5) - GND (S36-2)	W - W-B	Sound signal (Right)	Audio system is playing	A waveform synchronized with sounds is output
SLD (S27-6) - Body ground	Shielded - Body ground	Shielded ground	Always	Below 1 V
TX- (S27-7) - GND (S36-2)	L - W-B	AVC-LAN communication signal	Turn ignition switch to the ACC position	2 to 3 V
TX+ (S27-8) - GND (S36-2)	P - W-B	AVC-LAN communication signal	Turn ignition switch to the ACC position	2 to 3 V
SPD (S27-11) - GND (S36-2)	O - W-B	Speed signal	Turn ignition switch to the ON position, drive wheels are turned slowly	Pulse generation
ACC (S27-12) - GND (S36-2)	GR - W-B	Accessory (ON)	Turn ignition switch off	Below 1 V
ACC (S27-12) - GND (S36-2)	GR - W-B	Accessory (ON)	Turn ignition switch to the ACC position	10 to 14 V
SS11- (S27-14) - GND (S36-2) (*1)	Y - W-B	Voice guidance signal	Voice guidance is provided	A waveform synchronized with sounds is output
SS11+ (S27-15) - GND (S36-2) (*1)	BR - W-B	Voice guidance signal	Voice guidance is provided	A waveform synchronized with sounds is output

*1: with Navigation System

3. STEREO COMPONENT AMPLIFIER (WITHOUT FRONT CENTER SPEAKER)



Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specification
+B (S36-1) - GND (S36-2)	G - W-B	Battery	Always	10 to 14 V
GND (S36-2) - Body ground	W-B - Body ground	Ground	Always	Below 1 V
+B2 (S36-3) - GND (S36-2)	O - W-B	Battery	Always	10 to 14 V
GND2 (S36-6) - Body ground	W-B - Body ground	Ground	Always	Below 1 V
WFL+ (S35-1) - GND (S36-2)	V - W-B	Sound signal (Front left)	Audio system is playing	A waveform synchronized with sounds is output
WFR+ (S35-2) - GND (S36-2)	P - W-B	Sound signal (Front right)	Audio system is playing	A waveform synchronized with sounds is output
WFL- (S35-5) - GND (S36-2)	W - W-B	Sound signal (Front left)	Audio system is playing	A waveform synchronized with sounds is output
WFR- (S35-6) - GND (S36-2)	L-B - W-B	Sound signal (Front right)	Audio system is playing	A waveform synchronized with sounds is output
FL+ (S30-2) - GND (S36-2)	BR - W-B	Sound signal (Front left)	Audio system is playing	A waveform synchronized with sounds is output
RL+ (S30-3) - GND (S36-2)	R - W-B	Sound signal (Rear left)	Audio system is playing	A waveform synchronized with sounds is output
RR+ (S30-4) - GND (S36-2)	L-B - W-B	Sound signal (Rear right)	Audio system is playing	A waveform synchronized with sounds is output
FL- (S30-6) - GND (S36-2)	R-Y - W-B	Sound signal (Front left)	Audio system is playing	A waveform synchronized with sounds is output
FR- (S30-7) - GND (S36-2)	W - W-B	Sound signal (Front right)	Audio system is playing	A waveform synchronized with sounds is output
FR+ (S30-8) - GND (S36-2)	V - W-B	Sound signal (Front right)	Audio system is playing	A waveform synchronized with sounds is output
RL- (S30-9) - GND (S36-2)	GR - W-B	Sound signal (Rear left)	Audio system is playing	A waveform synchronized with sounds is output
RR- (S30-10) - GND (S36-2)	P - W-B	Sound signal (Rear right)	Audio system is playing	A waveform synchronized with sounds is output
MUTE (S29-1) - GND (S36-2)	V - W-B	Mute signal	Audio system is playing	Above 3.5 V
MUTE (S29-1) - GND (S36-2)	V - W-B	Mute signal (Front center)	Audio system is changing	Below 1 V
L- (S29-2) - GND (S36-2)	R - W-B	Sound signal (Left)	Audio system is playing	A waveform synchronized with sounds is output
L+ (S29-3) - GND (S36-2)	G - W-B	Sound signal (Left)	Audio system is playing	A waveform synchronized with sounds is output
R- (S29-4) - GND (S36-2)	B - W-B	Sound signal (Right)	Audio system is playing	A waveform synchronized with sounds is output
R+ (S29-5) - GND (S36-2)	W - W-B	Sound signal (Right)	Audio system is playing	A waveform synchronized with sounds is output
SLD (S29-6) - Body ground	Shielded - Body ground	Shielded ground	Always	Below 1 V
TX- (S29-7) - GND (S36-2)	L - W-B	AVC-LAN communication signal	Turn ignition switch to the ACC position	2 to 3 V
TX+ (S29-8) - GND (S36-2)	P - W-B	AVC-LAN communication signal	Turn ignition switch to the ACC position	2 to 3 V
SPD (S29-11) - GND (S36-2)	O - W-B	Speed signal	Turn ignition switch to the ON position, drive wheels are turned slowly	Pulse generation
ACC (S29-12) - GND (S36-2)	GR - W-B	Accessory (ON)	Turn ignition switch off	Below 1 V
ACC (S29-12) - GND (S36-2)	GR - W-B	Accessory (ON)	Turn ignition switch to the ACC position	10 to 14 V
II1- (S29-14) - GND (S36-2) (*1)	Y - W-B	Voice guidance signal	Voice guidance is provided	A waveform synchronized with sounds is output
II1+ (S29-15) - GND (S36-2) (*1)	BR - W-B	Voice guidance signal	Voice guidance is provided	A waveform synchronized with sounds is output

*1: with Navigation System

4. GATEWAY ECU (See page NS-43)

5. TELEVISION DISPLAY ASSEMBLY (See page [AV-173](#))