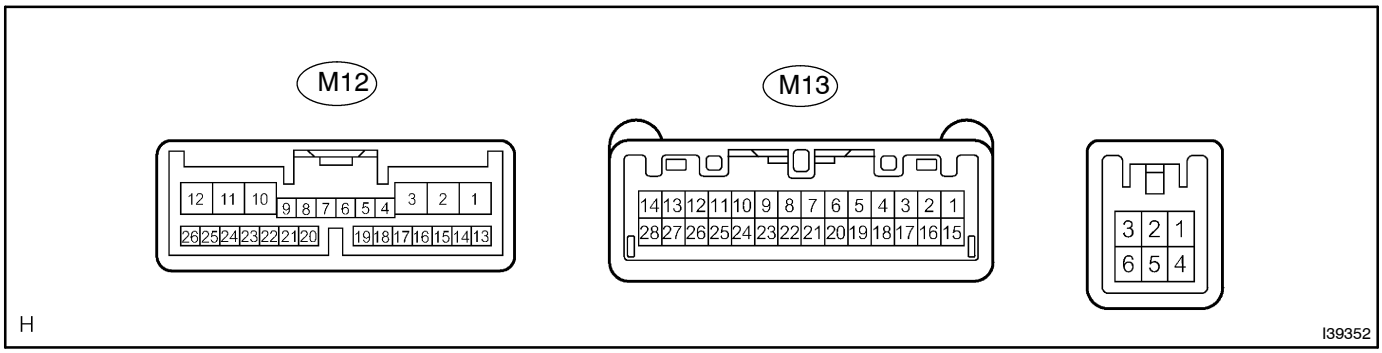
05HHF–01

TERMINALS OF ECU

1. MULTI–DISPLAY

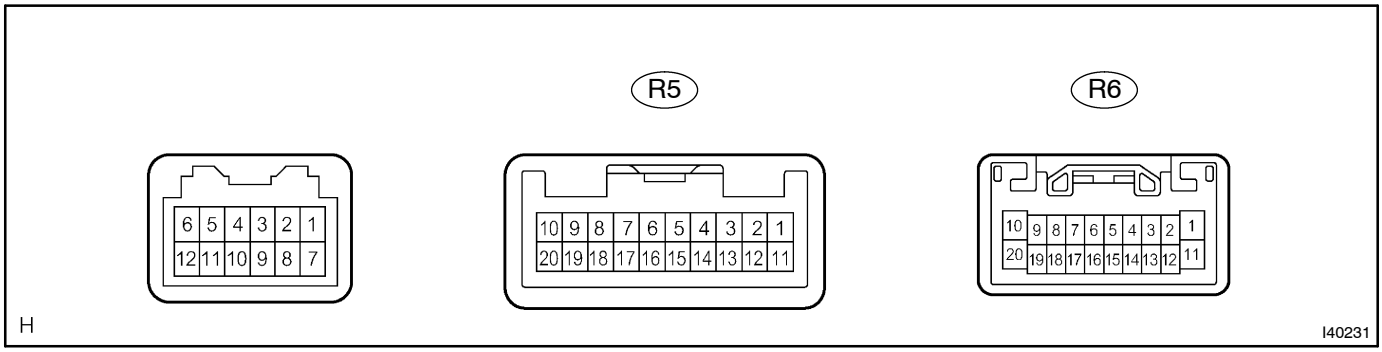


Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specification
ILL+ (M12–1) – GND1 (M12–3)	G – BR	Illumination (rheostat) signal	Power switch OFF → ON (IG)	Below 1 V → 10 to 14 V
GND1 (M12–3) – Body ground	BR – Body ground	Ground	Always	Below 1 Ω
TX1+ (M12–4) – GND1 (M12–3)	B – BR	AVC–LAN communication signal	See ”system check mode” → Power switch ON (IG)	– → 2 to 3 V
TX1– (M12–5) – GND1 (M12–3)	W – BR	AVC–LAN communication signal	See ”system check mode” → Power switch ON (IG)	– → 2 to 3 V
TC (M12–7) – GND1 (M12–3)	P – BR	Diagnosis ON signal	Power switch OFF → ON (IG)	Below 1 V → 10 to 14 V
IG (M12–10) – GND1 (M12–3)	B – BR	Power switch IG	Power switch OFF → ON (IG)	Below 1 V → 10 to 14 V
ACC (M12–11) – GND1 (M12–3)	GR – BR	Power switch ACC	Power switch OFF → ON (ACC)	Below 1 V → 10 to 14 V
+B1 (M12–12) – GND1 (M12–3)	Y – BR	Battery	Always	10 to 14 V
PKB (M12–16) – GND1 (M12–3)	R – BR	Parking brake signal	Turn parking brake switch ON → OFF	Below 1 V → 10 to 14 V
DR (M12–17) – GND1 (M12–3)	B – BR	Dimmer signal	Light control switch OFF → TAIL or HEAD	Below 1 V → 10 to 14 V
TX2+ (M12–18) – GND1 (M12–3)	P (*1), LG (*2) – BR	AVC–LAN communication signal	See ”system check mode” → Power switch ON (IG)	– → 2 to 3 V
TX2– (M12–19) – GND1 (M12–3)	W (*1), P (*2) – BR	AVC–LAN communication signal	See ”system check mode” → Power switch ON (IG)	– → 2 to 3 V
SPD (M12–25) – GND1 (M12–3)	V – BR	Speed signal from combination meter	See ”vehicle signal check mode”	–

*1: LHD, RHD (Built–in Type Amplifier)

*2: RHD (Separate Type Amplifier)

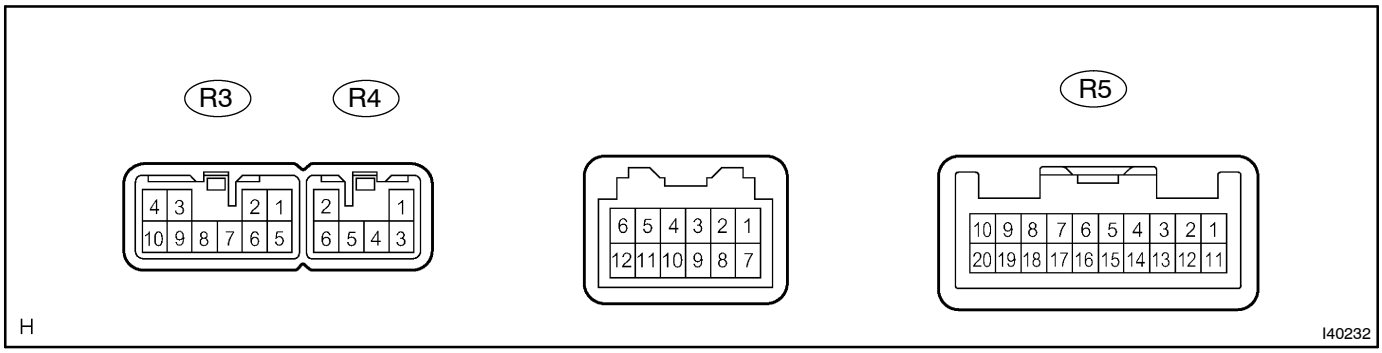
2. RADIO RECEIVER ASSY (SEPARATE TYPE AMPLIFIER)



Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specification
GND (R5–6) – Body ground	R – Body ground	Steering pad switch ground	Always	Below 1 Ω
SW1 (R5–7) – GND (R6–20)	B – BR	Steering pad switch signal	Steering pad switch not operating. → SEEK+ switch push → SEEK– switch push → VOL+ switch push → VOL– switch push	4 V or more → Approx. 0.5 V → Approx. 0.9 V → Approx. 2.0 V → Approx. 3.4 V
SW2 (R5–8) – GND (R6–20)	W – BR	Steering pad switch signal	Steering pad switch not operating. → MODE switch push	4 V or more → Below 2.5 V
TX+ (R5–9) – GND (R6–20)	P (*1), LG (*2) – BR	AVC–LAN communication signal	See ”system check mode” → Power switch ON (IG)	– → 2 to 3 V
TX– (R5–10) – GND (R6–20)	W (*1), P (*2) – BR	AVC–LAN communication signal	See ”system check mode” → Power switch ON (IG)	– → 2 to 3 V
+B (R6–1) – GND (R6–20)	SB – BR	Battery	Always	10 to 14 V
ILL+ (R6–2) – GND (R6–20)	G – BR	Illumination (rheostat) signal	Power switch OFF → ON Light control switch TAIL or HEAD	Below 1V → 10 to 14V
TX+ (R6–5) – GND (R6–20)	P – BR	AVC–LAN communication signal	See ”system check mode” → Power switch ON (IG)	– → 2 to 3 V
MUTE (R6–7) – GND (R6–5)	W – BR	Mute signal	Audio system is playing → Changing	Above 3.5 V → Below 1 V
R+ (R6–8) – GND (R6–5)	R – BR	Sound signal (Right)	Audio system is playing	A waveform synchronized with sounds is output
L+ (R6–9) – GND (R6–5)	W – BR	Sound signal (Left)	Audio system is playing	A waveform synchronized with sounds is output
SLD (R6–10) – Body ground	Shield – Body ground	Shielded ground	Always	Below 1 Ω
ACC (R6–11) – GND (R6–20)	GR – BR	Power switch ACC	Power switch OFF → ON (ACC)	Below 1 V → 10 to 14 V
ANT+ (R6–13) – GND (R6–20)	O – BR	Power source of antenna	Radio power switch ON and AM or FM	10 to 14 V
TX– (R6–15) – GND (R6–20)	O – BR	AVC–LAN communication signal	See ”system check mode” → Power switch ON (IG)	– → 2 to 3 V
R– (R6–18) – GND (R6–20)	G – BR	Sound signal (Right)	Audio system is playing	A waveform synchronized with sounds is output
L– (R6–19) – GND (R6–20)	B – BR	Sound signal (Left)	Audio system is playing	A waveform synchronized with sounds is output
GND (R6–20) – Body ground	BR – Body ground	Ground	Always	Below 1 Ω

*1: LHD
*2: RHD

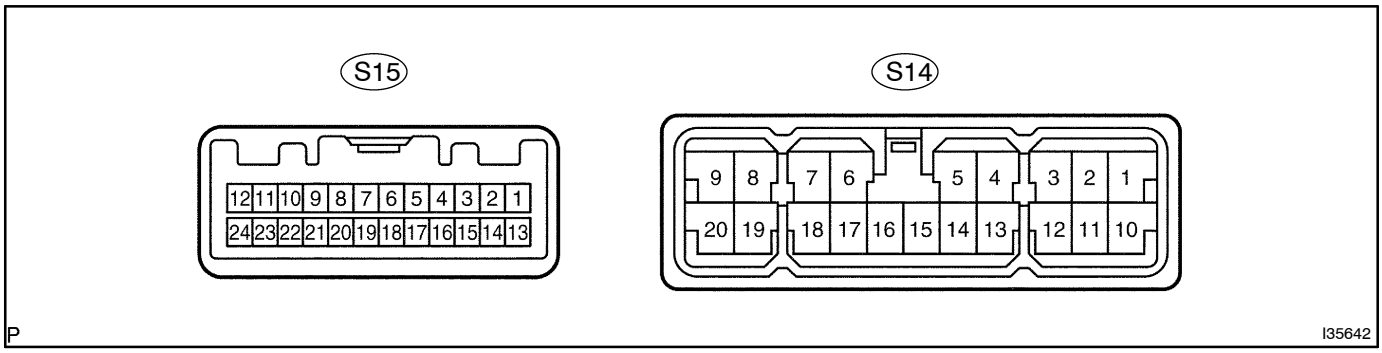
3. RADIO RECEIVER ASSY (BUILT–IN TYPE AMPLIFIER)



Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specification
GND (R5–6) – Body ground	R – Body ground	Steering pad switch ground	Always	Below 1 Ω
SW1 (R5–7) – GND (R3–7)	B – BR	Steering pad switch signal	Steering pad switch not operating. → SEEK+ switch push → SEEK– switch push → VOL+ switch push → VOL– switch push	4 V or more → Approx. 0.5 V → Approx. 0.9 V → Approx. 2.0 V → Approx. 3.4 V
SW2 (R5–8) – GND (R3–7)	W – BR	Steering pad switch signal	Steering pad switch not operating. → MODE switch push	4 V or more → Below 2.5V
TX1+ (R5–9) – GND (R6–20)	P – BR	AVC–LAN communication signal	See ”system check mode” → Power switch ON (IG)	– → 2 to 3 V
TX1– (R5–10) – GND (R6–20)	W – BR	AVC–LAN communication signal	See ”system check mode” → Power switch ON (IG)	– → 2 to 3 V
FR+ (R3–1) – GND (R3–7)	LG – BR	Sound signal (Right)	Audio system is playing	A waveform synchronized with sounds is output
FL+ (R3–2) – GND (R3–7)	P – BR	Sound signal (Left)	Audio system is playing	A waveform synchronized with sounds is output
ACC (R3–3) – GND (R3–7)	GR – BR	Power switch ACC	Power switch OFF → ON (ACC)	Below 1 V → 10 to 14 V
+B (R3–4) – GND (R3–7)	SB – BR	Battery	Always	10 to 14 V
FR– (R3–5) – GND (R3–7)	L – BR	Sound signal (Right)	Audio system is playing	A waveform synchronized with sounds is output
FL– (R3–6) – GND (R3–7)	V – BR	Sound signal (Left)	Audio system is playing	A waveform synchronized with sounds is output
GND (R3–7) – Body ground	BR – Body ground	Ground	Always	Below 1 Ω
ANT+ (R3–8) – GND (R3–7)	O – BR	Power source of antenna	Radio power switch ON and AM or FM	10 to 14 V
ILL+ (R3–10) – GND (R3–7)	G – BR	Illumination (rheostat) signal	Power switch OFF → ON Light control switch TAIL or HEAD	Below 1V → 10 to 14V
RR+ (R4–1) – GND (R3–7)	R – BR	Sound signal (Right)	Audio system is playing	A waveform synchronized with sounds is output
RL+ (R4–2) – GND (R3–7)	B – BR	Sound signal (Left)	Audio system is playing	A waveform synchronized with sounds is output

RR– (R4–3) – GND (R3–7)	W – BR	Sound signal (Right)	Audio system is playing	A waveform synchronized with sounds is output
RL– (R4–6) – GND (R3–7)	Y – BR	Sound signal (Left)	Audio system is playing	A waveform synchronized with sounds is output

4. STEREO COMPONENT AMPLIFIER ASSY



Terminal No. (Symbols)	Wiring Color	Terminal Description	Condition	Specification
+B (S14–1) – GND (S14–16)	SB – W–B (*1) SB – BR (*2)	Battery	Always	10 to 14 V
CTR+ (S14–3) – GND (S14–16)	R – W–B (*1) R – BR (*2)	Sound signal (Center)	Audio system is playing	A waveform synchronized with sounds is output
RL+ (S14–4) – GND (S14–16)	B – W–B (*1) B – BR (*2)	Sound signal (Left)	Audio system is playing	A waveform synchronized with sounds is output
RR+ (S14–5) – GND (S14–16)	R – W–B (*1) R – BR (*2)	Sound signal (Right)	Audio system is playing	A waveform synchronized with sounds is output
FL+ (S14–6) – GND (S14–16)	P – W–B (*1) P – BR (*2)	Sound signal (Left)	Audio system is playing	A waveform synchronized with sounds is output
FR+ (S14–7) – GND (S14–16)	LG – W–B (*1) LG – BR (*2)	Sound signal (Right)	Audio system is playing	A waveform synchronized with sounds is output
WF2+ (S14–8) – GND (S14–16)	P – W–B (*1) P – BR (*2)	Sound signal (Left)	Audio system is playing	A waveform synchronized with sounds is output
WF1+ (S14–9) – GND (S14–16)	LG – W–B (*1) LG – BR (*2)	Sound signal (Right)	Audio system is playing	A waveform synchronized with sounds is output
+B2 (S14–10) – GND (S14–16)	SB – W–B (*1) SB – BR (*2)	Battery	Always	10 to 14 V
CTR– (S14–12) – GND (S14–16)	W – W–B (*1) W – BR (*2)	Sound signal (Center)	Audio system is playing	A waveform synchronized with sounds is output
RL– (S14–13) – GND (S14–16)	Y – W–B (*1) Y – BR (*2)	Sound signal (Left)	Audio system is playing	A waveform synchronized with sounds is output
RR– (S14–14) – GND (S14–16)	W – W–B (*1) W – BR (*2)	Sound signal (Right)	Audio system is playing	A waveform synchronized with sounds is output
GND2 (S14–15) – Body ground	W–B (*1), BR (*1) – Body ground	Ground	Always	Below 1 Ω
GND (S14–16) – Body ground	W–B (*1), BR (*1) – Body ground	Ground	Always	Below 1 Ω

FL– (S14–17) – GND (S14–16)	V – W–B (*1) V – BR (*2)	Sound signal (Left)	Audio system is playing	A waveform synchronized with sounds is output
FR– (S14–18) – GND (S14–16)	L – W–B (*1) L – BR (*2)	Sound signal (Right)	Audio system is playing	A waveform synchronized with sounds is output
WF2– (S14–19) – GND (S14–16)	V – W–B (*1) V – BR (*2)	Sound signal (Left)	Audio system is playing	A waveform synchronized with sounds is output
WF1– (S14–20) – GND (S14–16)	L – W–B (*1) L – BR (*2)	Sound signal (Right)	Audio system is playing	A waveform synchronized with sounds is output
MUTE (S15–1) – GND (R6–5)	W – BR (*1) W – BR (*2)	Mute signal	Audio system is playing → Changing	Above 3.5 V → Below 1 V
L– (S15–2) – GND (S14–16)	B – W–B (*1) B – BR (*2)	Sound signal (Left)	Audio system is playing	A waveform synchronized with sounds is output
L+ (S15–3) – GND (S14–16)	W – W–B (*1) W – BR (*2)	Sound signal (Left)	Audio system is playing	A waveform synchronized with sounds is output
R– (S15–4) – GND (S14–16)	G – W–B (*1) G – BR (*2)	Sound signal (Right)	Audio system is playing	A waveform synchronized with sounds is output
R+ (S15–5) – GND (S14–16)	R – W–B (*1) R – BR (*2)	Sound signal (Right)	Audio system is playing	A waveform synchronized with sounds is output
SLD (S15–6) – Body ground	Shield – Body ground	Shielded ground	Always	Below 1 Ω
TX– (S15–7) – GND (S14–16)	O – BR (*1) O – BR (*2)	AVC–LAN communication signal	See ”system check mode” → Power switch ON (IG)	– → 2 to 3 V
TX+ (S15–8) – GND (S14–16)	P – BR (*1) P – BR (*2)	AVC–LAN communication signal	See ”system check mode” → Power switch ON (IG)	– → 2 to 3 V
ACC (S15–12) – GND (R6–20)	GR – BR (*1) GR – BR (*2)	Power switch ACC	Power switch OFF → ON (ACC)	Below 1 V → 10 to 14 V
(*3) N–MU (S15–21) – GND (R6–5)	W – BR (*1) W – BR (*2)	Mute signal	Audio system is playing → Changing	Below 3.5 V → Below 1 V

*1: LHD

*2: RHD

*3: w/ Navigation system