

AUDIO

System Description

BASE SYSTEM FOR COUPE MODELS

Refer to Owner's Manual for audio system operating instructions.

Power is supplied at all times

- through 15A fuse [No. 37, located in the fuse and fusible link box]
- to audio unit terminal 6.

With the ignition switch in the ACC or ON position, power is supplied

- through 10A fuse [No. 6, located in the fuse block (J/B)]
- to audio unit terminal 10.

Ground is supplied through the case of the audio unit.

When of audio switch is pushed, audio signals are supplied

- through audio unit terminals 1, 2, 3, 4, 13, 14, 15 and 16
- to terminals 1 and 2 of driver door speaker and passenger door speaker
- to terminals 1 and 2 of rear speaker LH and RH
- to terminals 1 and 2 of tweeter (driver side) and tweeter (passenger side).

BASE SYSTEM FOR ROADSTER MODELS

Refer to Owner's Manual for audio system operating instructions.

Power is supplied at all times

- through 15A fuse [No. 37, located in the fuse and fusible link box]
- to audio unit terminal 6.

With the ignition switch in the ACC or ON position, power is supplied

- through 10A fuse [No. 6, located in the fuse block (J/B)]
- to audio unit terminal 10.

Ground is supplied through the case of the audio unit.

When of audio switch is pushed, audio signals are supplied

- through audio unit terminals 1, 2, 3, 4, 13, 14, 15 and 16
- to terminals 1 and 2 of driver door speaker and passenger door speaker
- to terminals 1 and 2 of rear speaker LH and RH
- to terminals 1 and 2 of tweeter (driver side) and tweeter (passenger side).

BOSE SYSTEM FOR COUPE MODELS

CD auto changer (built into audio unit) operation is controlled by audio unit.

Refer to Owner's Manual for audio system operating instructions.

Power is supplied at all times

- through 15A fuse [No. 37, located in the fuse and fusible link box]
- to audio unit terminal 6
- to BOSE speaker amp. terminal 11
- to option connector for satellite radio receiver terminal 1,
- through 15A fuse [No. 17, located in the fuse block (J/B)]
- to woofer amp. terminal 8.

With the ignition switch in the ACC or ON position, power is supplied

- through 10A fuse [No. 6, located in the fuse block (J/B)]
- to audio unit terminal 10
- to option connector for satellite radio receiver terminal 6,
- through audio unit terminal 12
- to BOSE speaker amp. terminal 41,
- through BOSE speaker amp. terminal 32
- to woofer amp. terminal 6.

Ground is supplied through the case of the audio unit.

AUDIO

Ground is also supplied

- to BOSE speaker amp. terminal 27
- to woofer amp. terminal 7
- through body ground B5, B6, D105 and T14.

When audio switch is pushed, audio signals are supplied

- through audio unit terminals 1, 2, 3, 4, 13, 14, 15 and 16
- to BOSE speaker amp. terminals 33, 34, 35, 36, 37, 38, 39 and 40.

Audio signals are amplified by the BOSE speaker amp.

The amplified audio signals are supplied

- through BOSE speaker amp. terminals 12, 19, 20, 21, 22, 23, 24, 25, 26 and 28
- to terminals 1 and 2 of driver door speaker and passenger door speaker
- to terminals 1 and 2 of rear speaker LH and RH
- to terminals 1 and 2 of tweeter (driver side) and tweeter (passenger side)
- to terminals 1 and 2 of woofer amp.

Audio signals are amplified by the woofer amp.

The amplified audio signals are supplied

- through woofer amp. terminals 3 and 4
- to terminals 1 and 2 of woofer.

BOSE SYSTEM FOR ROADSTER MODELS

CD auto changer (built into audio unit) operation is controlled by audio unit.

Refer to Owner's Manual for audio system operating instructions.

Power is supplied at all times

- through 15A fuse [No. 37, located in the fuse and fusible link box]
- to audio unit terminal 6
- to BOSE speaker amp. terminal 11,
- through 15A fuse [No. 17, located in the fuse block (J/B)]
- to woofer amp. terminal 8.

With the ignition switch in the ACC or ON position, power is supplied

- through 10A fuse [No. 6, located in the fuse block (J/B)]
- to audio unit terminal 10,
- through audio unit terminal 12
- to BOSE speaker amp. terminal 41,
- through BOSE speaker amp. terminal 32
- to woofer amp. terminal 6.

Ground is supplied through the case of the audio unit.

Ground is also supplied

- to BOSE speaker amp. terminal 27
- to woofer amp. terminal 7
- through body ground B5, B6 and T14.

When audio switch is pushed, audio signals are supplied

- through audio unit terminals 1, 2, 3, 4, 13, 14, 15 and 16
- to BOSE speaker amp. terminals 33, 34, 35, 36, 37, 38, 39 and 40.

Audio signals are amplified by the BOSE speaker amp.

The amplified audio signals are supplied

- through BOSE speaker amp. terminals 12, 19, 20, 21, 22, 23, 24, 25, 26 and 28
- to terminals 1 and 2 of driver door speaker and passenger door speaker
- to terminals 1 and 2 of rear speaker LH and RH
- to terminals 1 and 2 of tweeter (driver side) and tweeter (passenger side)
- to terminals 1 and 2 of woofer amp.

Audio signals are amplified by the woofer amp.

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The amplified audio signals are supplied

- through woofer amp. terminals 3 and 4
- to terminals 1 and 2 of woofer.

AudioPilot® System

AudioPilot® is the sound improving system that picks up any noises or the sound of music coming into the vehicle by a microphone under the steering, and that the BOSE speaker amp. revises the frequency feature of music at real time in response to the frequency feature of the noise while driving and listening to music.

- If low frequency area noise from vehicle is loud, it adjusts low frequency element of music to be bigger than vehicle noise.
- If high frequency area noise from vehicle is loud, it adjusts high frequency element of music to be bigger than vehicle noise.
- If vehicle noise is smaller than the setting volume, correction is not performed.

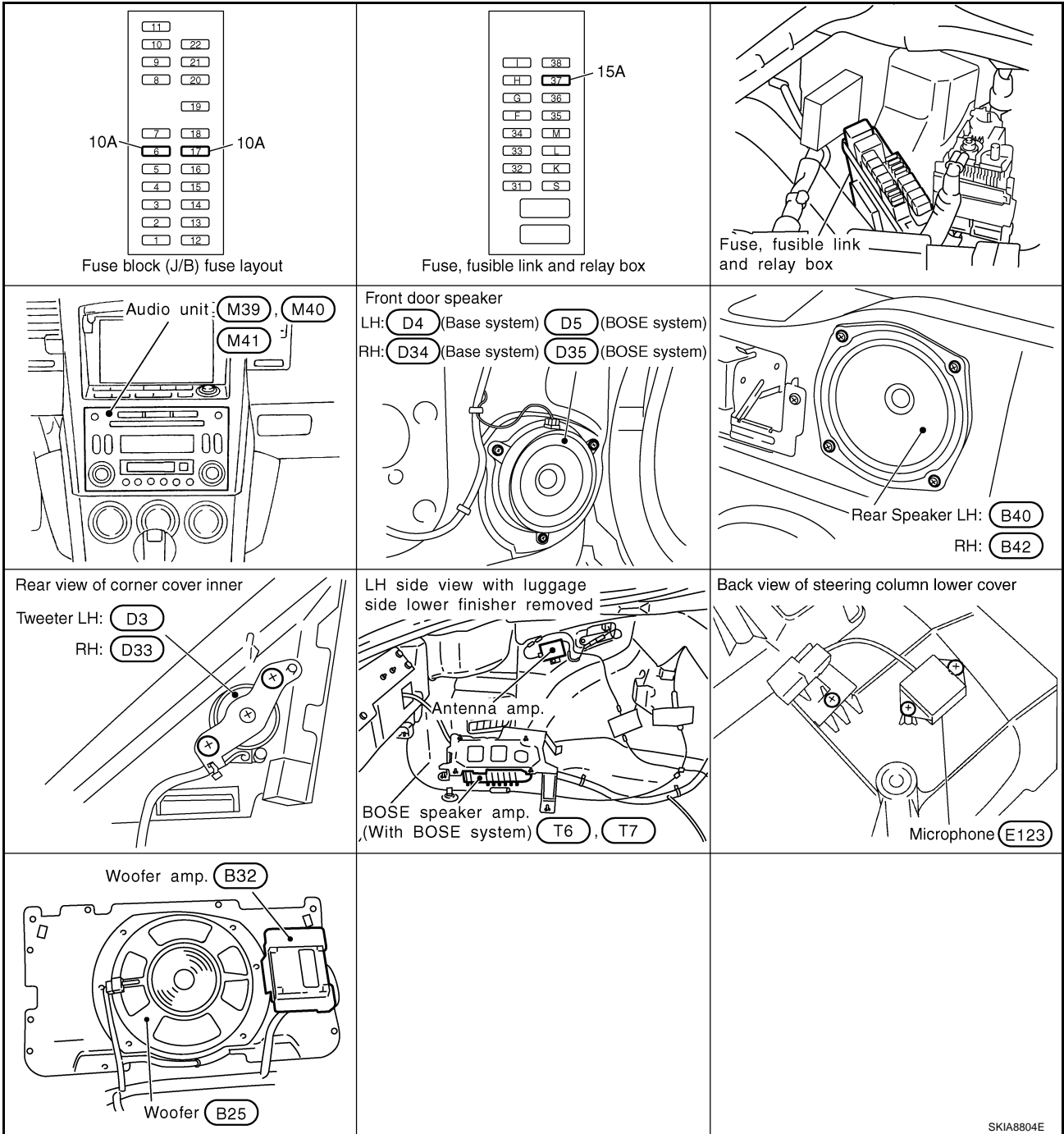
This eliminates vehicle noise when listening to music.

AUDIO

Component Parts and Harness Connector Location

AKS00995

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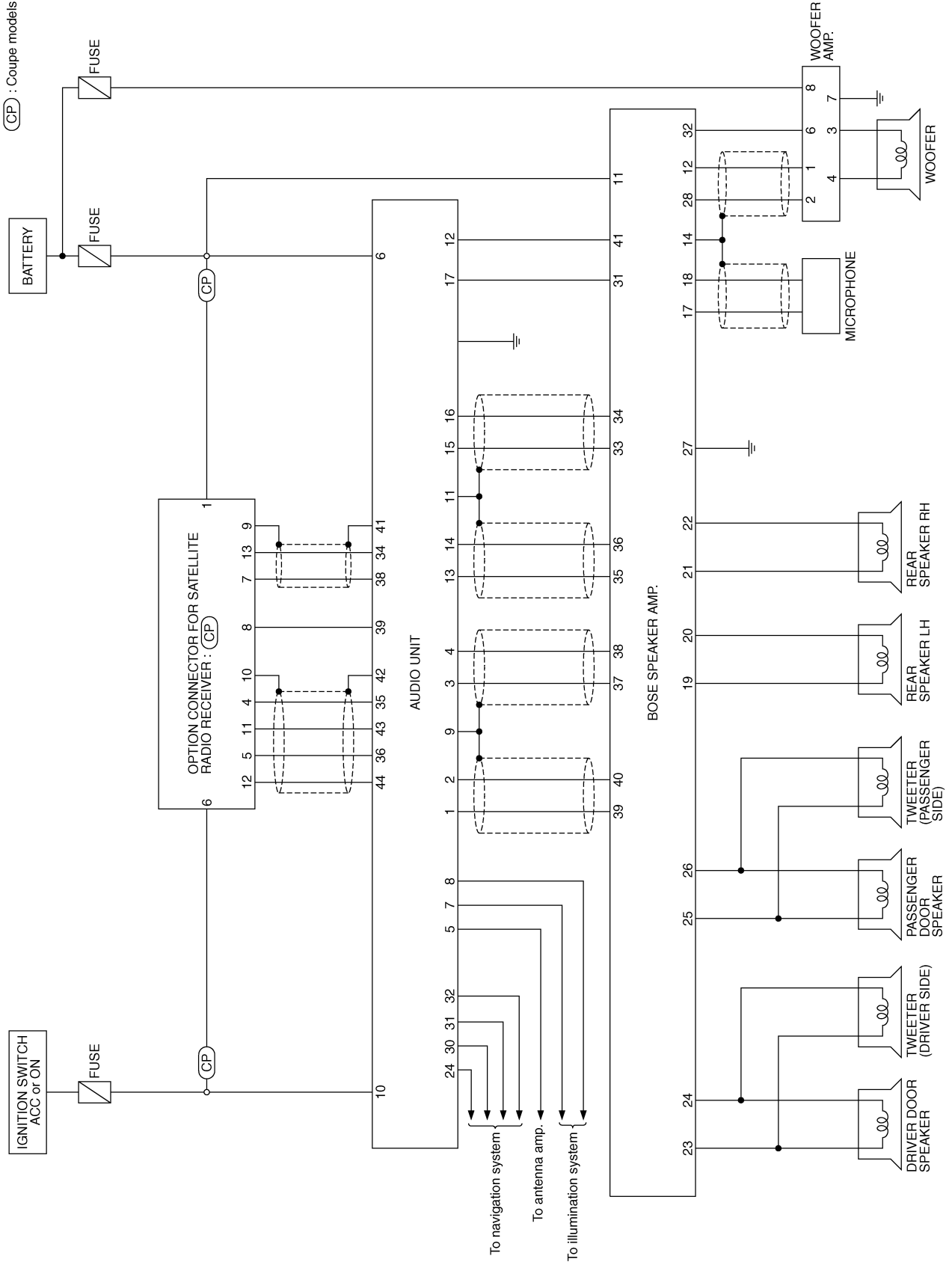


SKIA8804E

AUDIO

AKS0010I

Schematic BOSE SYSTEM



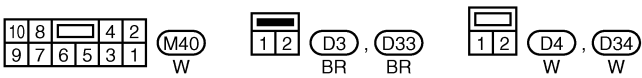
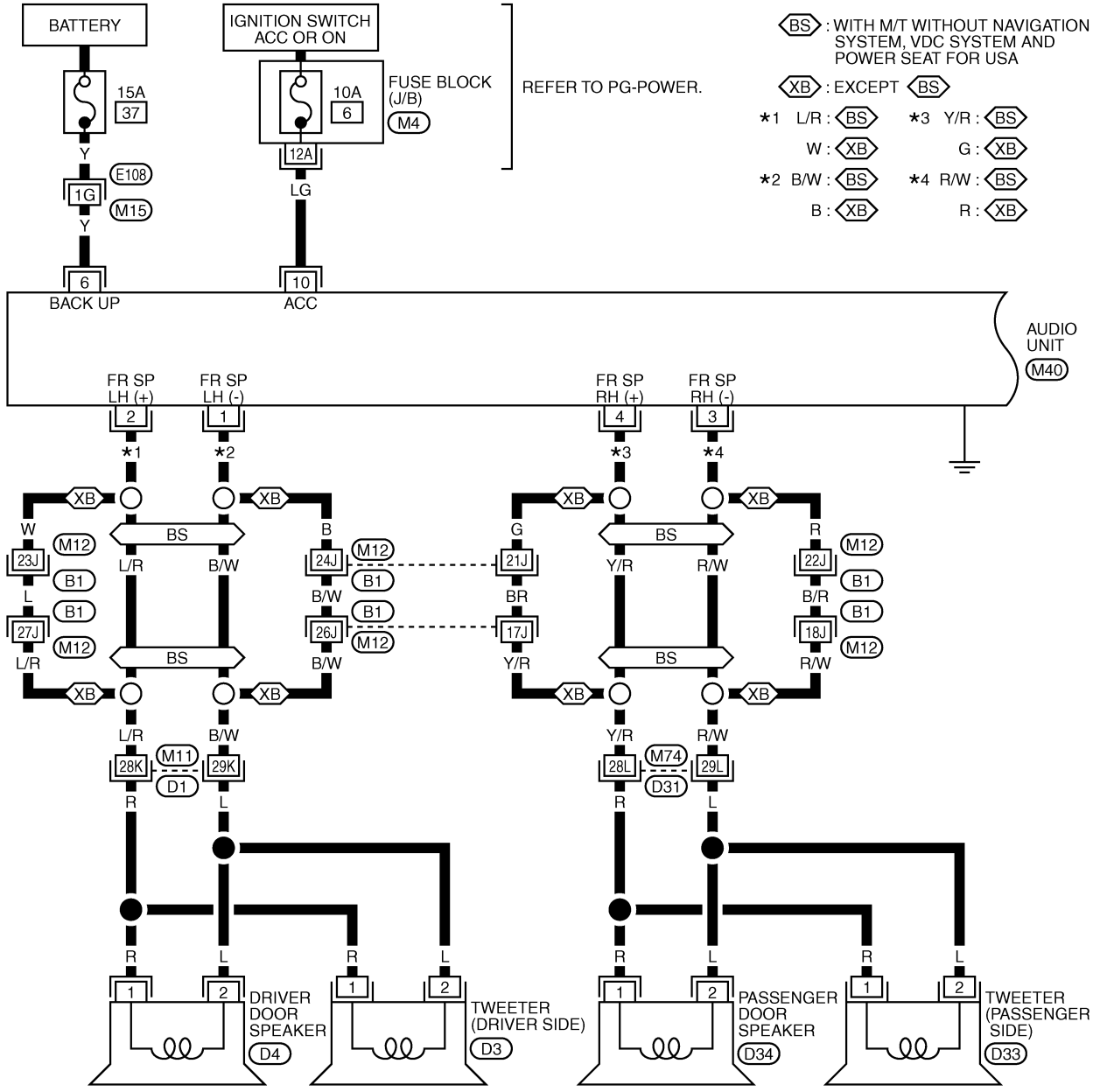
TKWT1528E

AUDIO

AKS0010J

Wiring Diagram — AUDIO — BASE SYSTEM FOR COUPE MODELS

AV-AUDIO-01



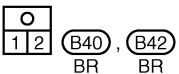
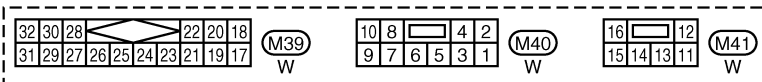
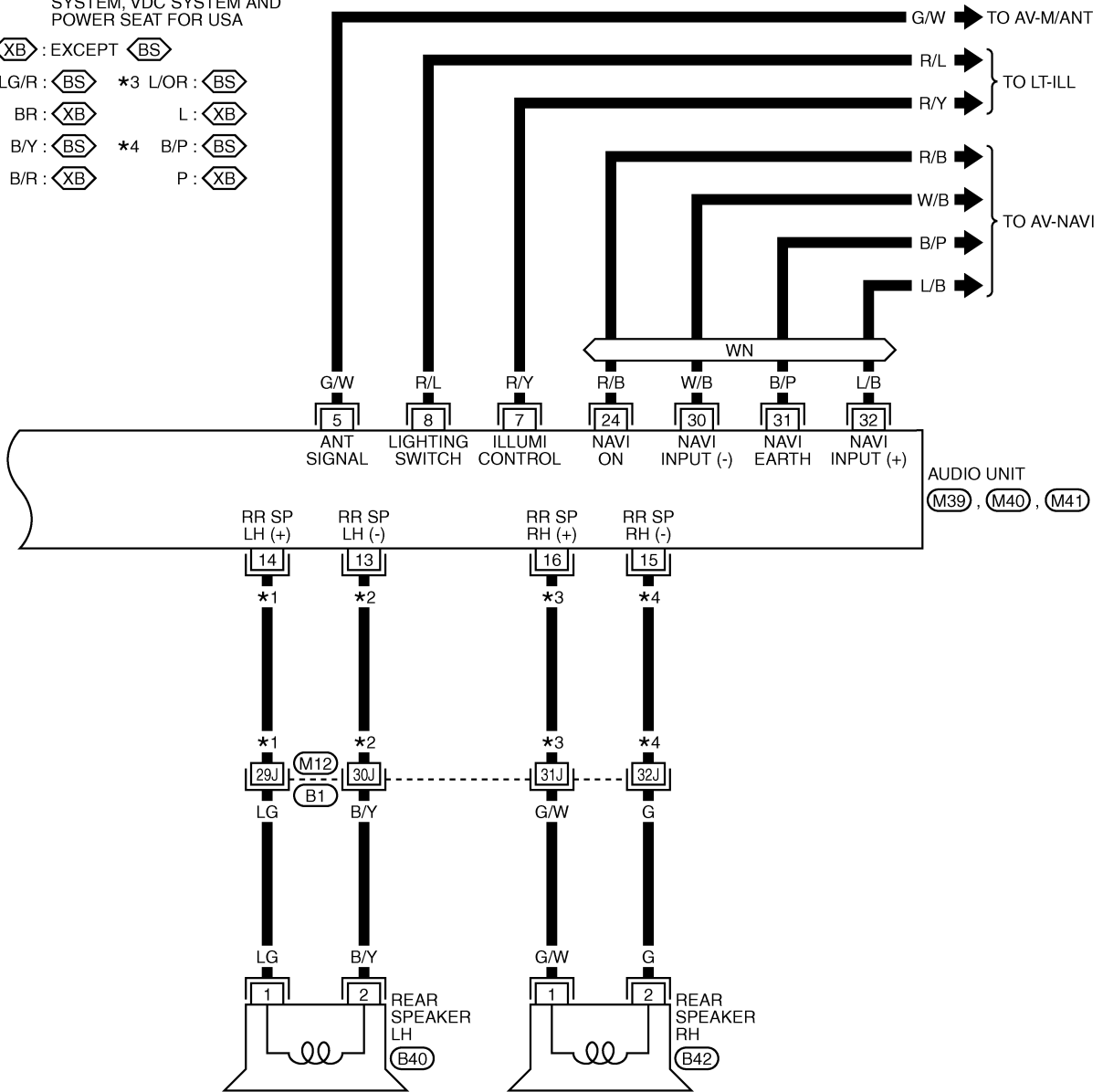
REFER TO THE FOLLOWING.
 (E108), (B1), (D1), (D31)
 -SUPER MULTIPLE JUNCTION (SMJ)
 (M4) -FUSE BLOCK-JUNCTION BOX (J/B)

TKWT1524E

AUDIO

AV-AUDIO-02

- WN : WITH NAVIGATION SYSTEM
- BS : WITH M/T WITHOUT NAVIGATION SYSTEM, VDC SYSTEM AND POWER SEAT FOR USA
- XB : EXCEPT BS
- *1 LG/R : BS *3 L/OR : BS
 BR : XB L : XB
- *2 B/Y : BS *4 B/P : BS
 B/R : XB P : XB



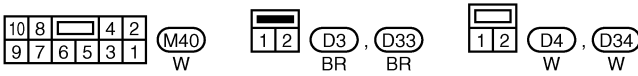
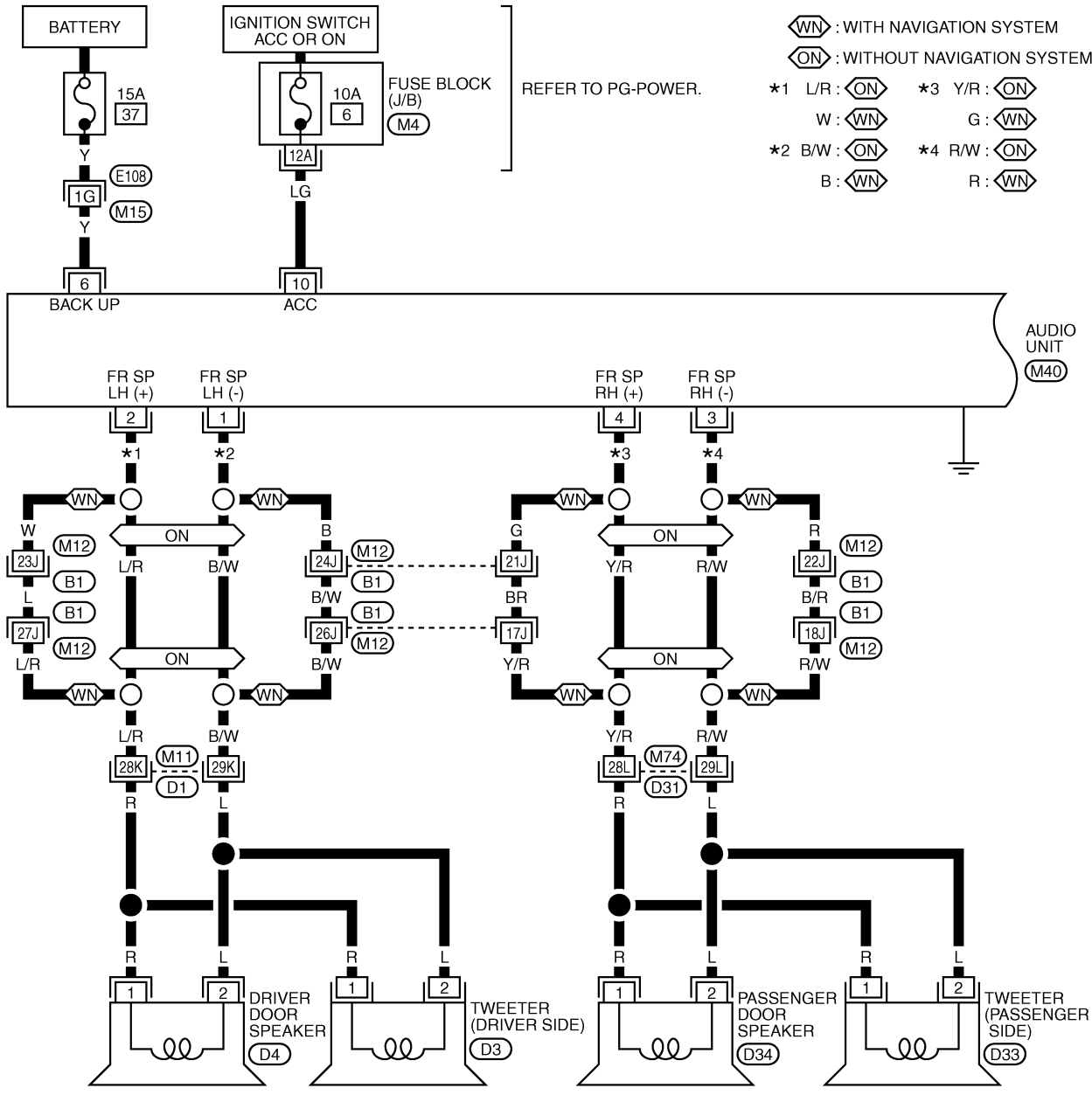
REFER TO THE FOLLOWING.
B1 -SUPER MULTIPLE JUNCTION (SMJ)

TKWT2323E

AUDIO

BASE SYSTEM FOR ROADSTER MODELS

AV-AUDIO-03



REFER TO THE FOLLOWING.
 (E108), (B1), (D1), (D31)
 -SUPER MULTIPLE JUNCTION (SMJ)
 (M4) -FUSE BLOCK-JUNCTION BOX (J/B)

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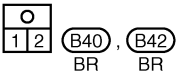
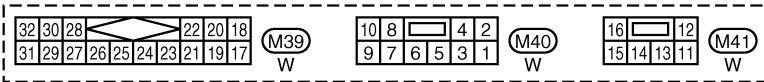
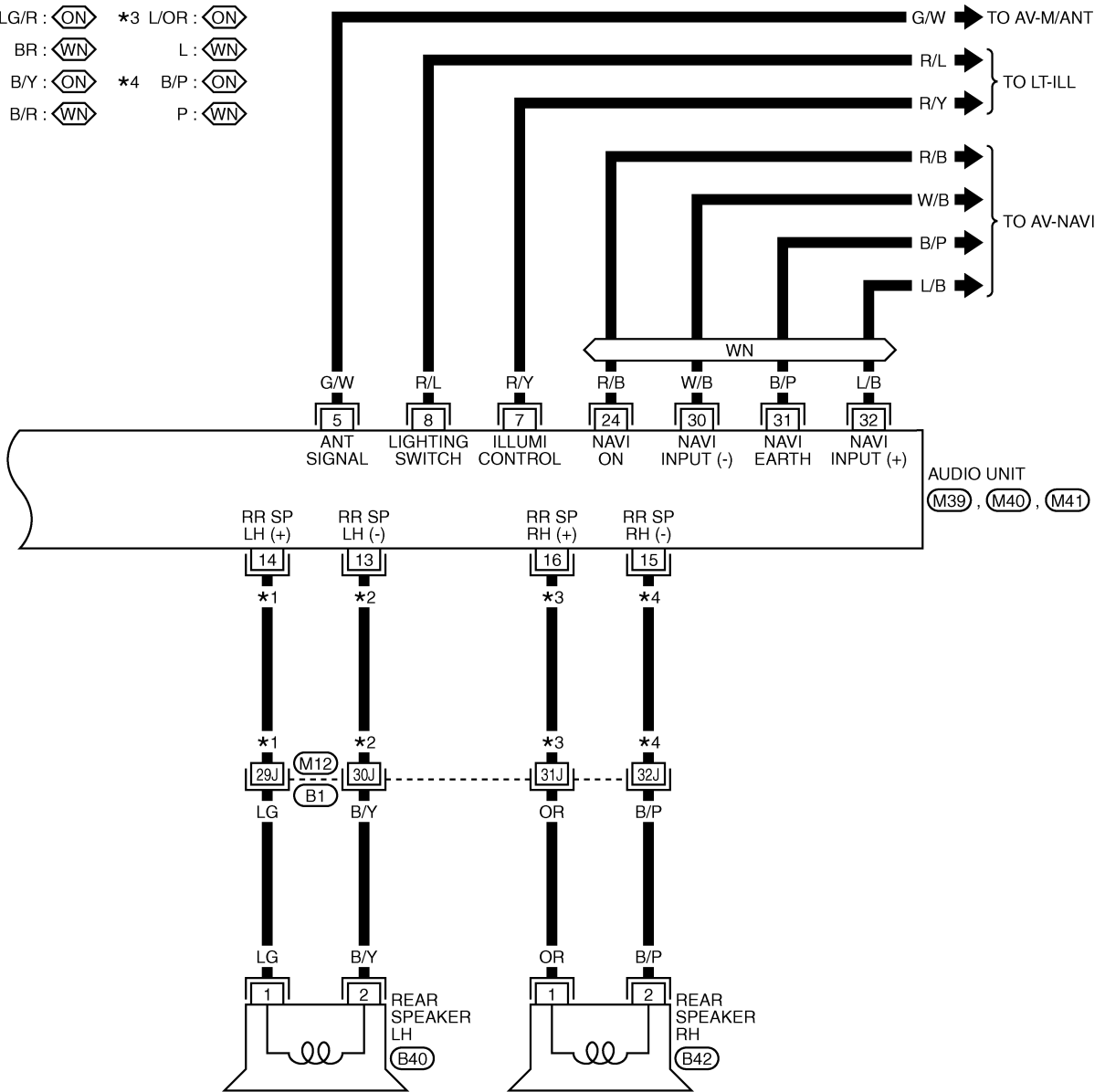
AUDIO

AV-AUDIO-04

WN : WITH NAVIGATION SYSTEM

ON : WITHOUT NAVIGATION SYSTEM

- *1 LG/R : ON *3 L/OR : ON
- BR : WN L : WN
- *2 B/Y : ON *4 B/P : ON
- B/R : WN P : WN



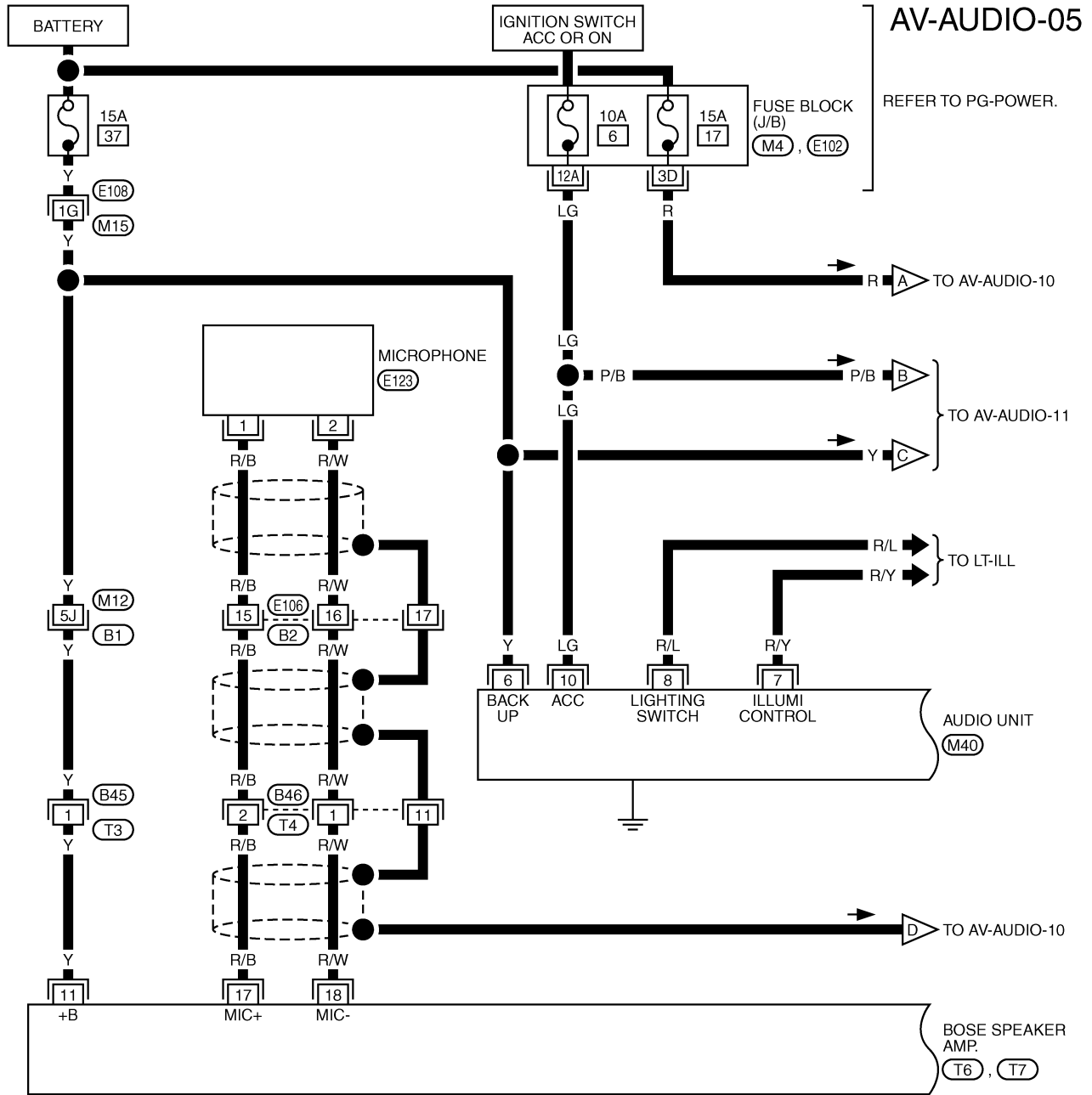
REFER TO THE FOLLOWING.

(B1) -SUPER MULTIPLE JUNCTION (SMJ)

TKWT2324E

AUDIO

BOSE SYSTEM FOR COUPE MODELS



AV-AUDIO-05

REFER TO PG-POWER.

TO AV-AUDIO-10

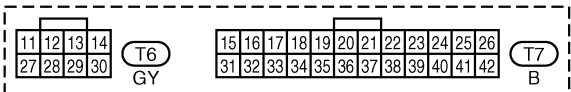
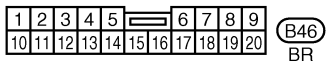
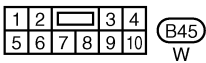
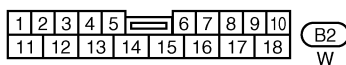
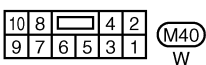
TO AV-AUDIO-11

TO LT-ILL

AUDIO UNIT (M40)

TO AV-AUDIO-10

BOSE SPEAKER AMP. (T6, T7)



REFER TO THE FOLLOWING.

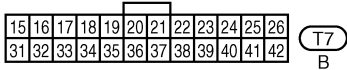
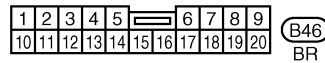
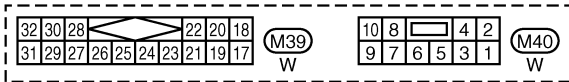
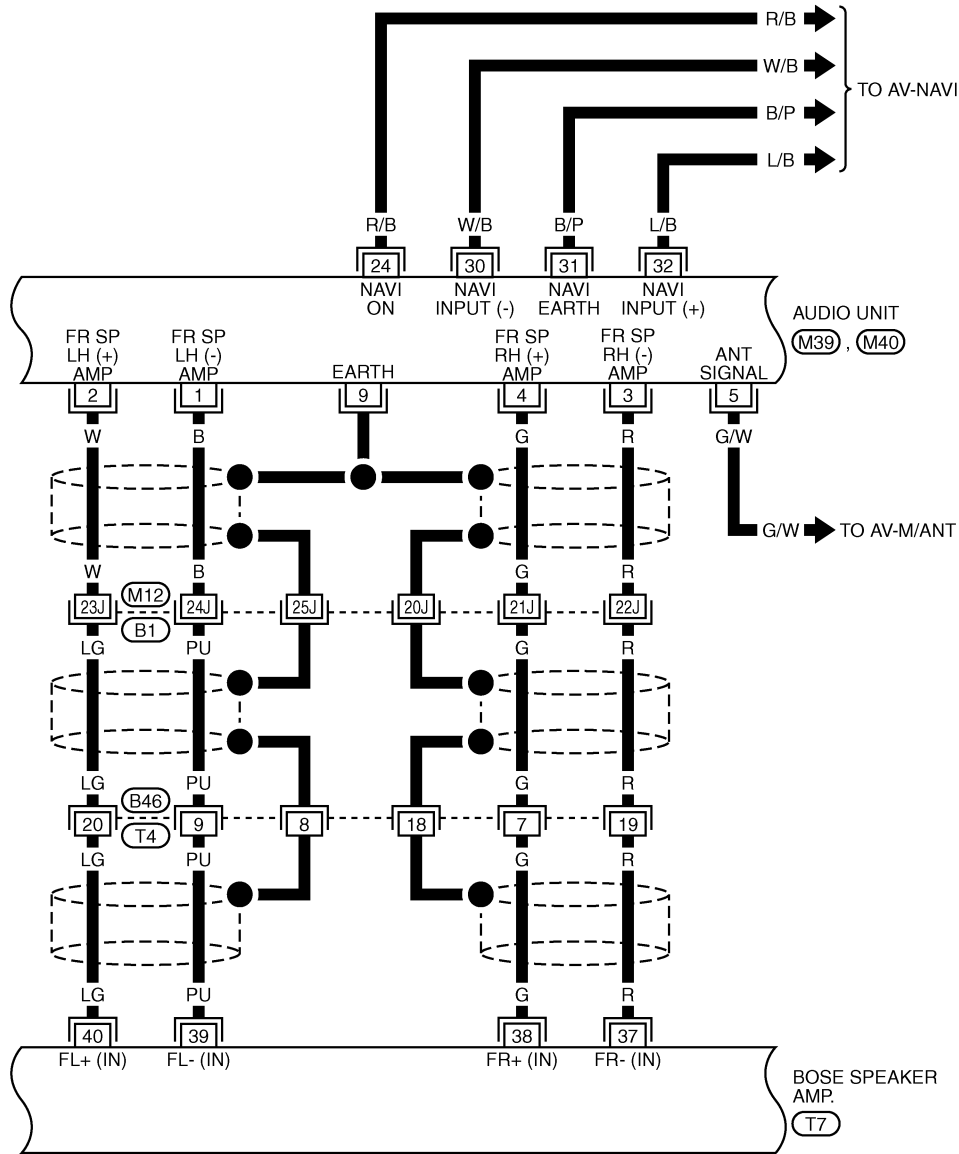
(E108), (B1) -SUPER MULTIPLE JUNCTION (SMJ)

(M4), (E102) -FUSE BLOCK-JUNCTION BOX (J/B)

TKWT1529E

AUDIO

AV-AUDIO-06



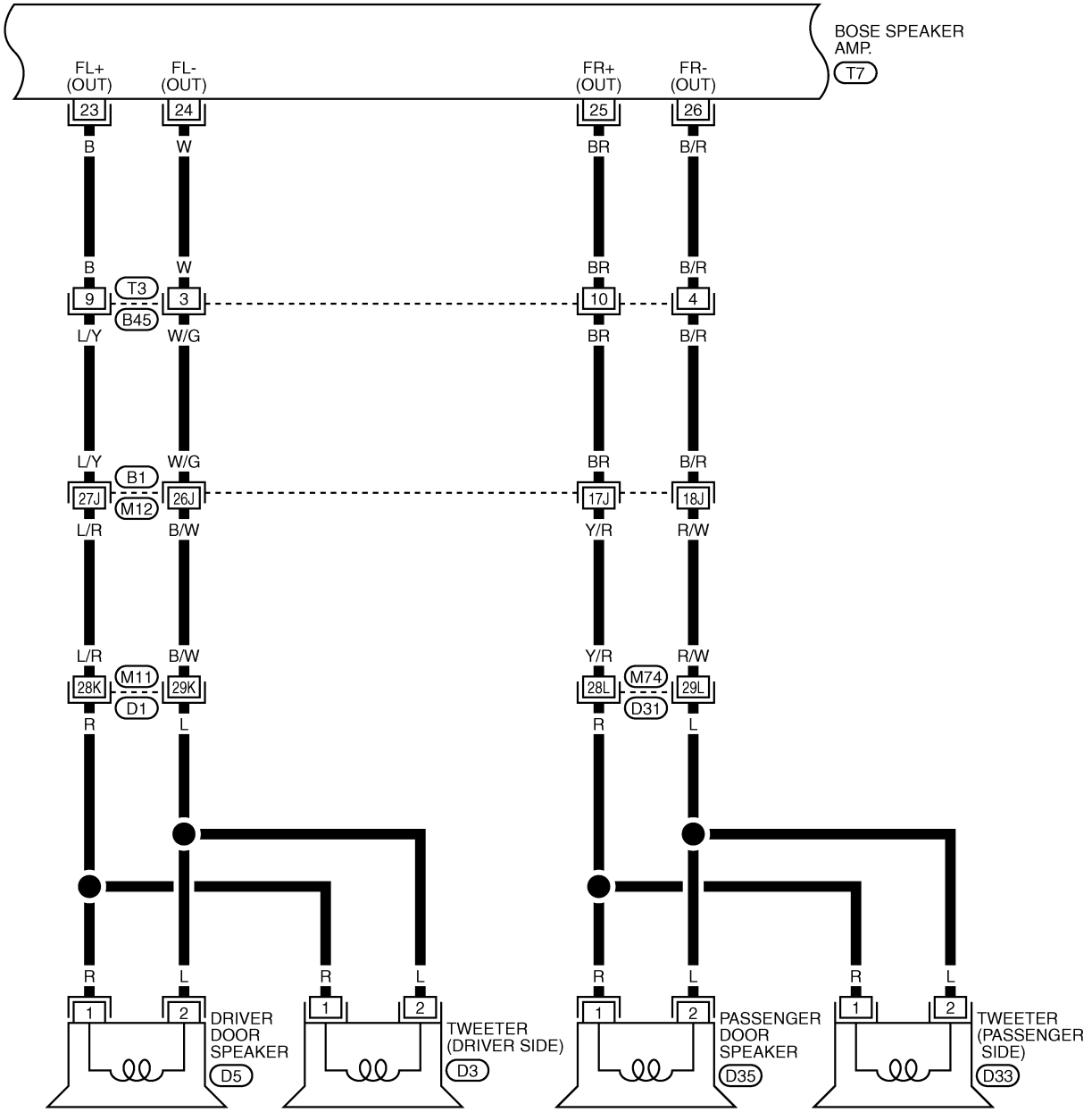
REFER TO THE FOLLOWING.

(B1) -SUPER MULTIPLE JUNCTION (SMJ)

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AV-AUDIO-07

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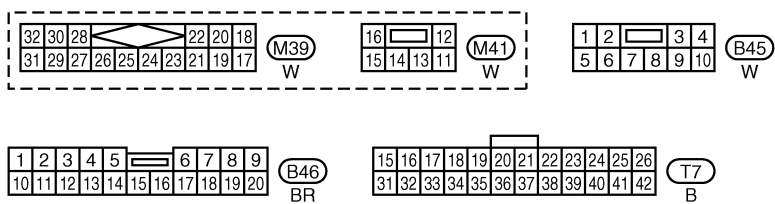
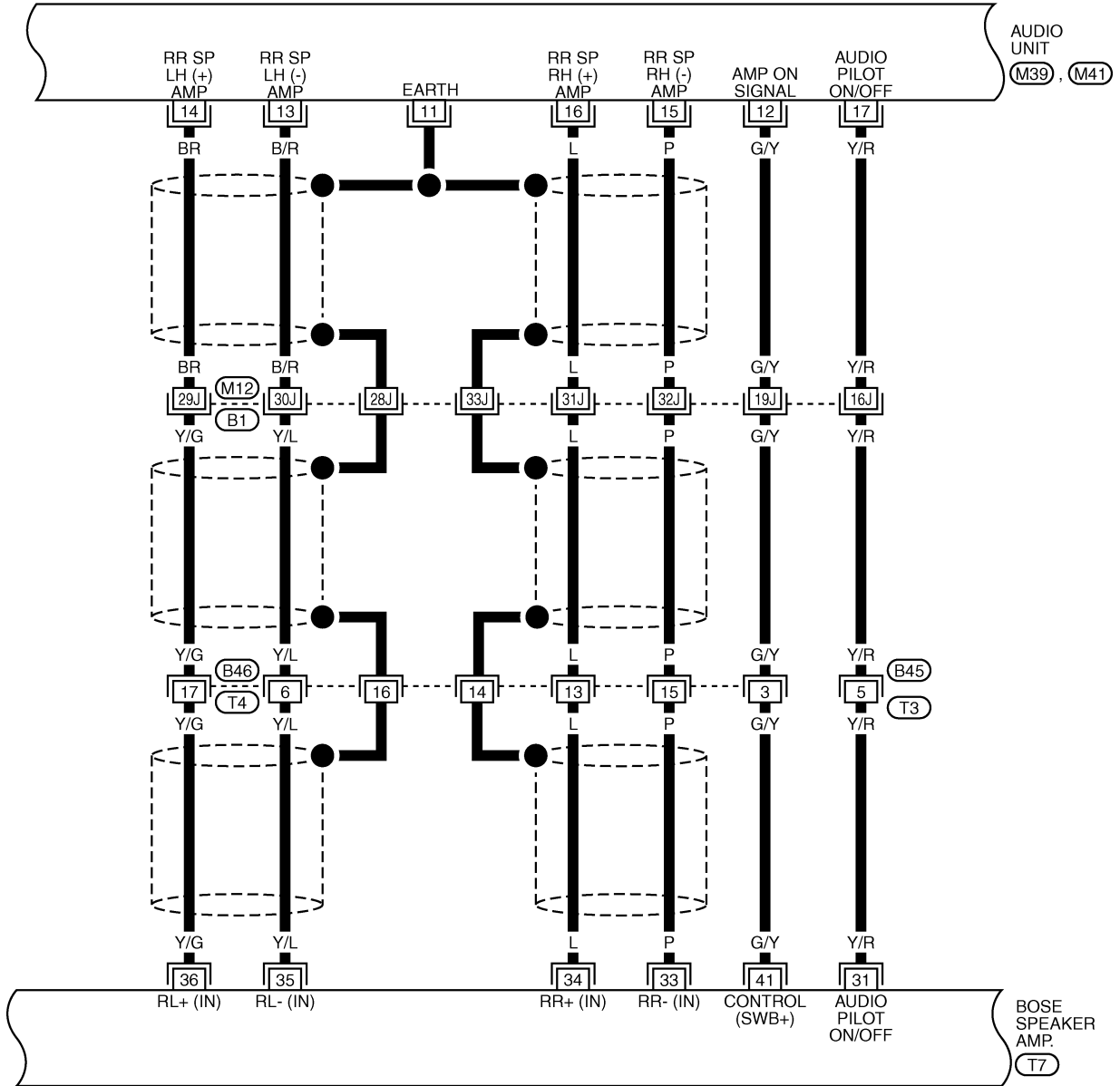


REFER TO THE FOLLOWING.
 (B1), (D1), (D31) -SUPER
 MULTIPLE JUNCTION (SMJ)

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AV-AUDIO-08

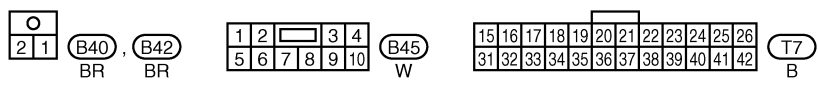
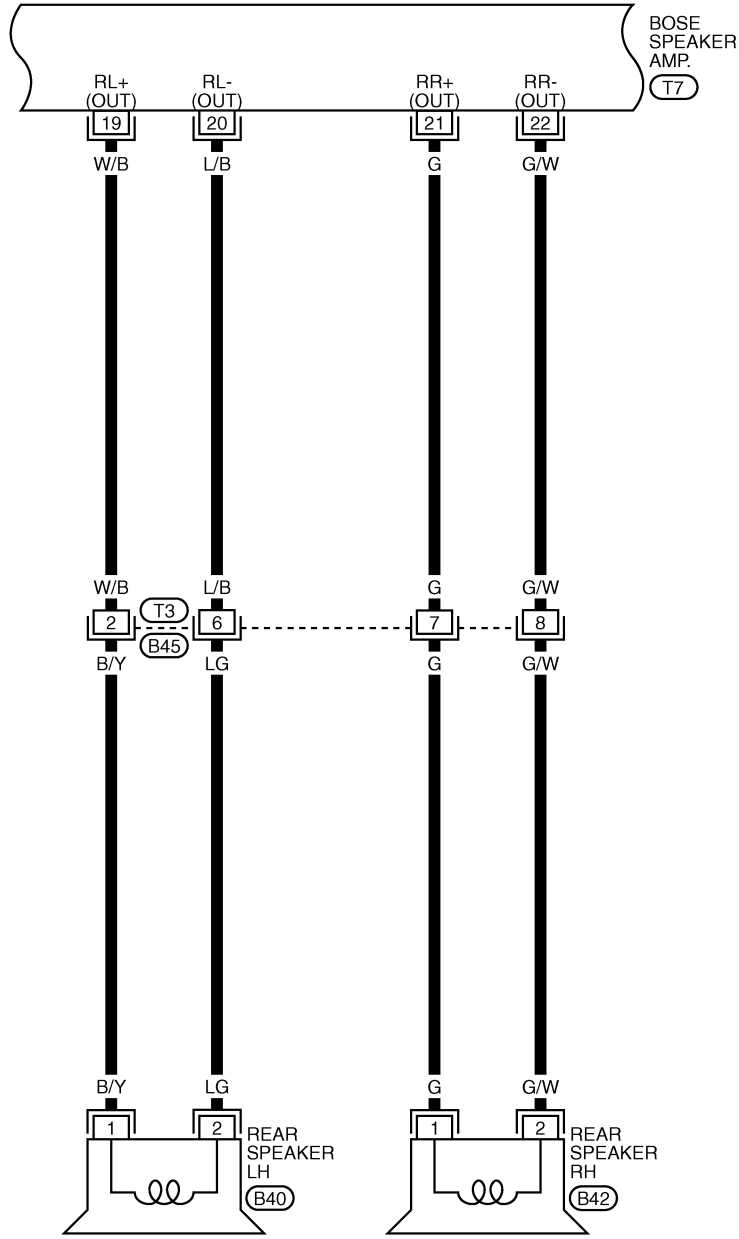


REFER TO THE FOLLOWING.
(B1) -SUPER MULTIPLE JUNCTION (SMJ)

AUDIO

AV-AUDIO-09

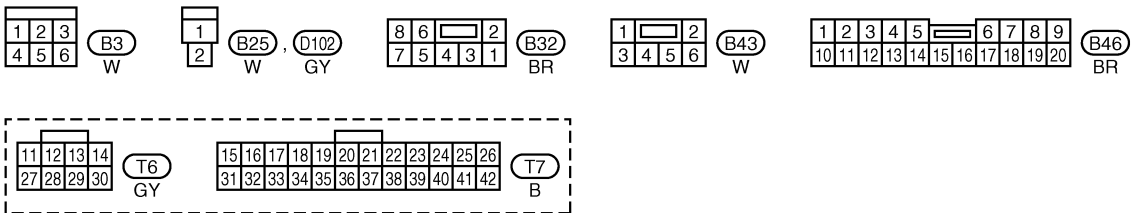
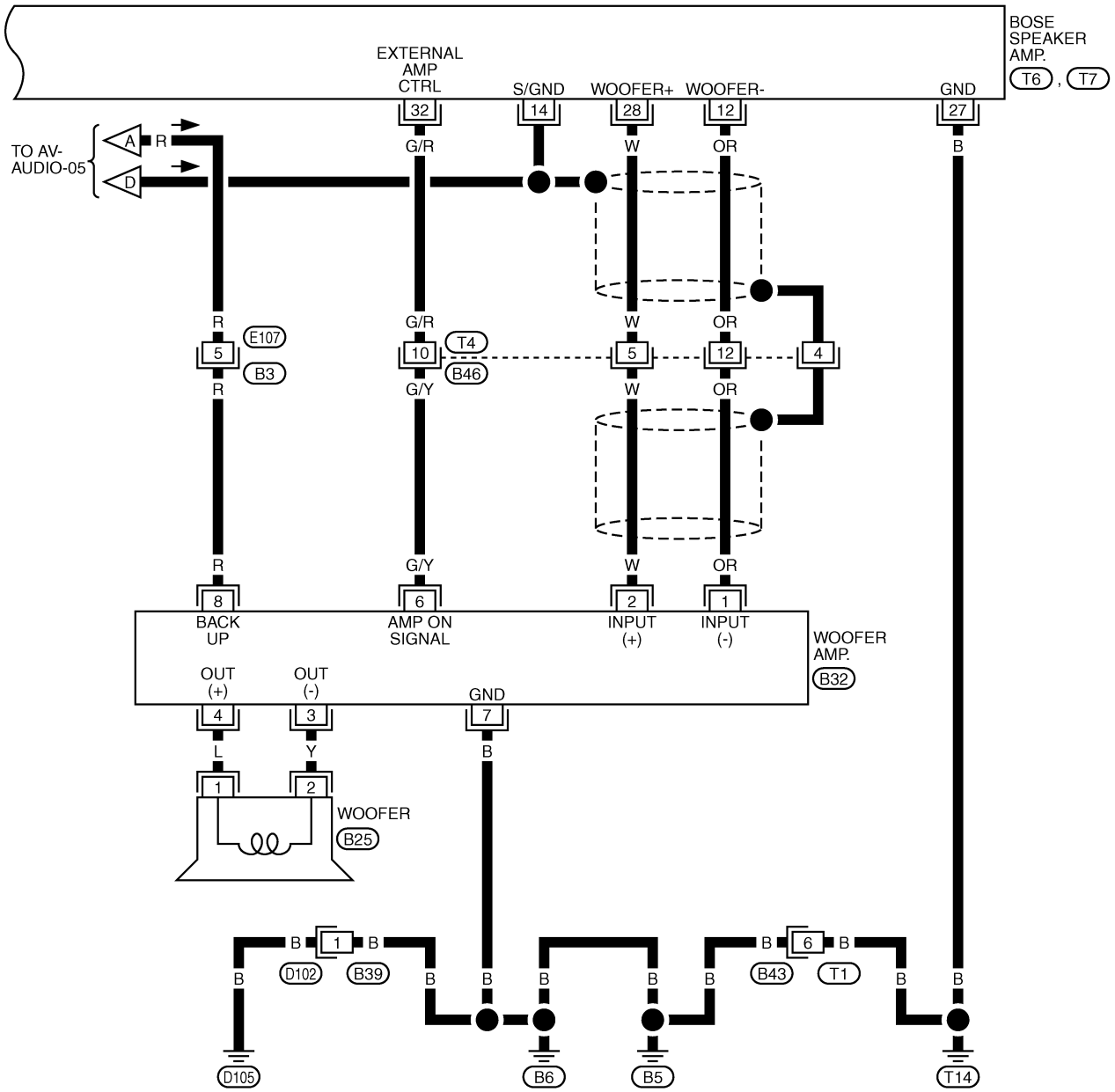
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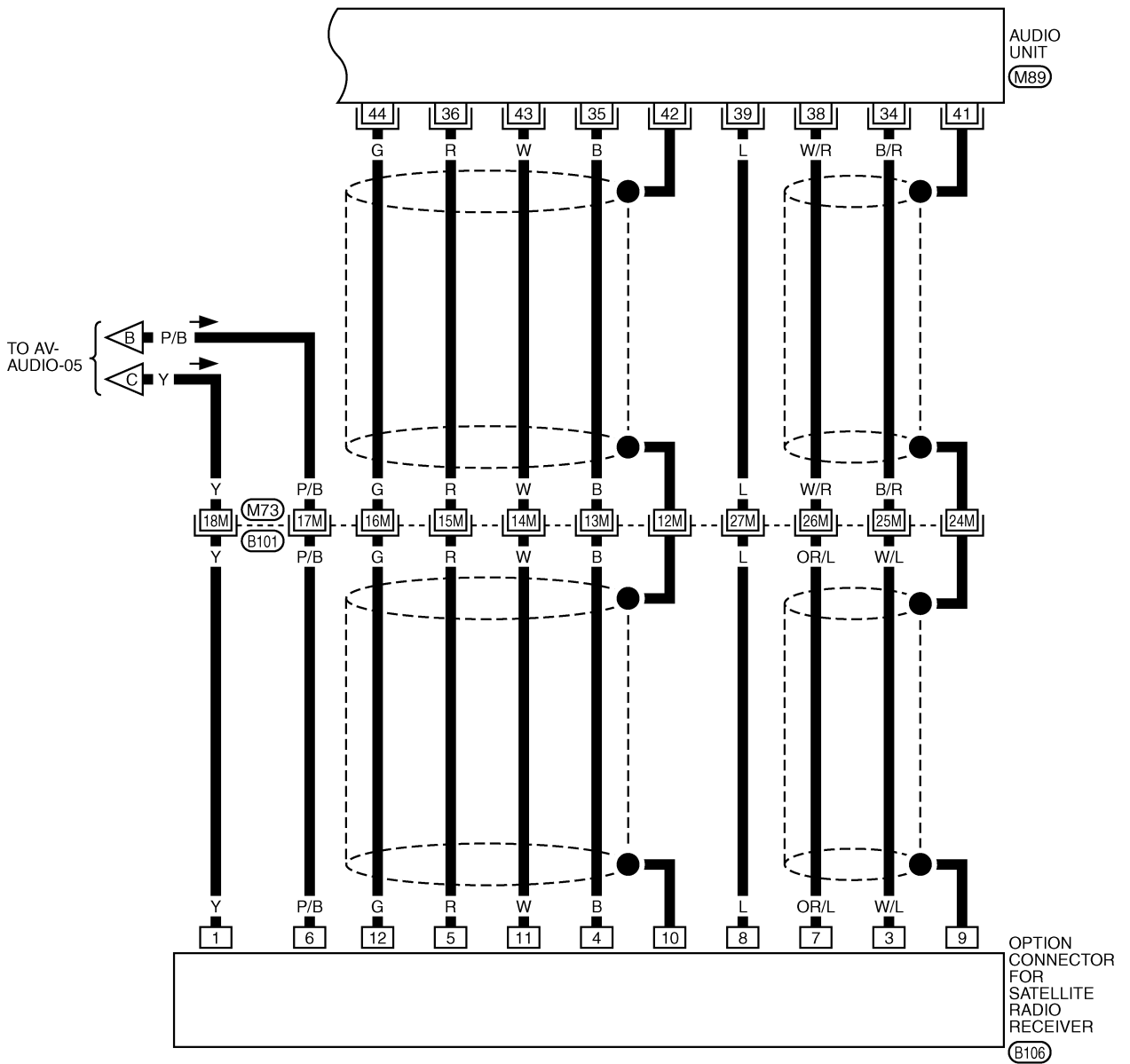
AV-AUDIO-10



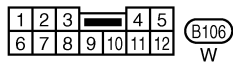
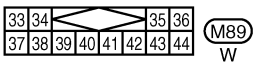
TKWT1534E

AUDIO

AV-AUDIO-11



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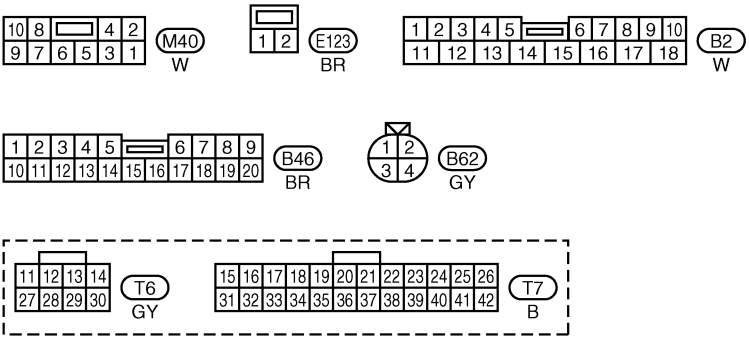
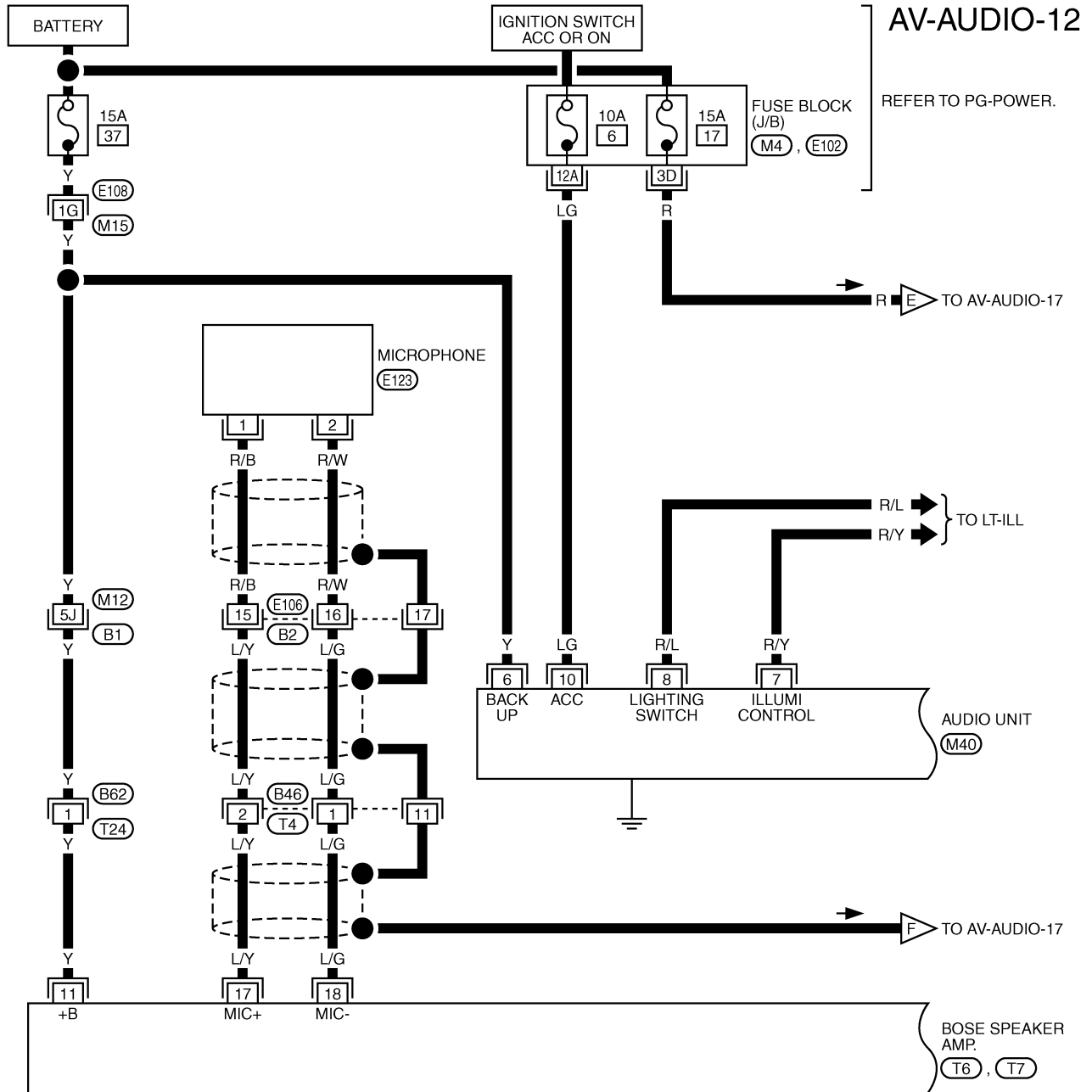


REFER TO THE FOLLOWING.
(B101) -SUPER MULTIPLE JUNCTION (SMJ)

TKWT1535E

AUDIO

BOSE SYSTEM FOR ROADSTER MODELS



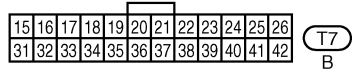
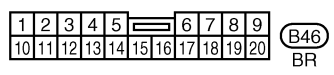
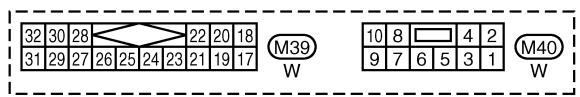
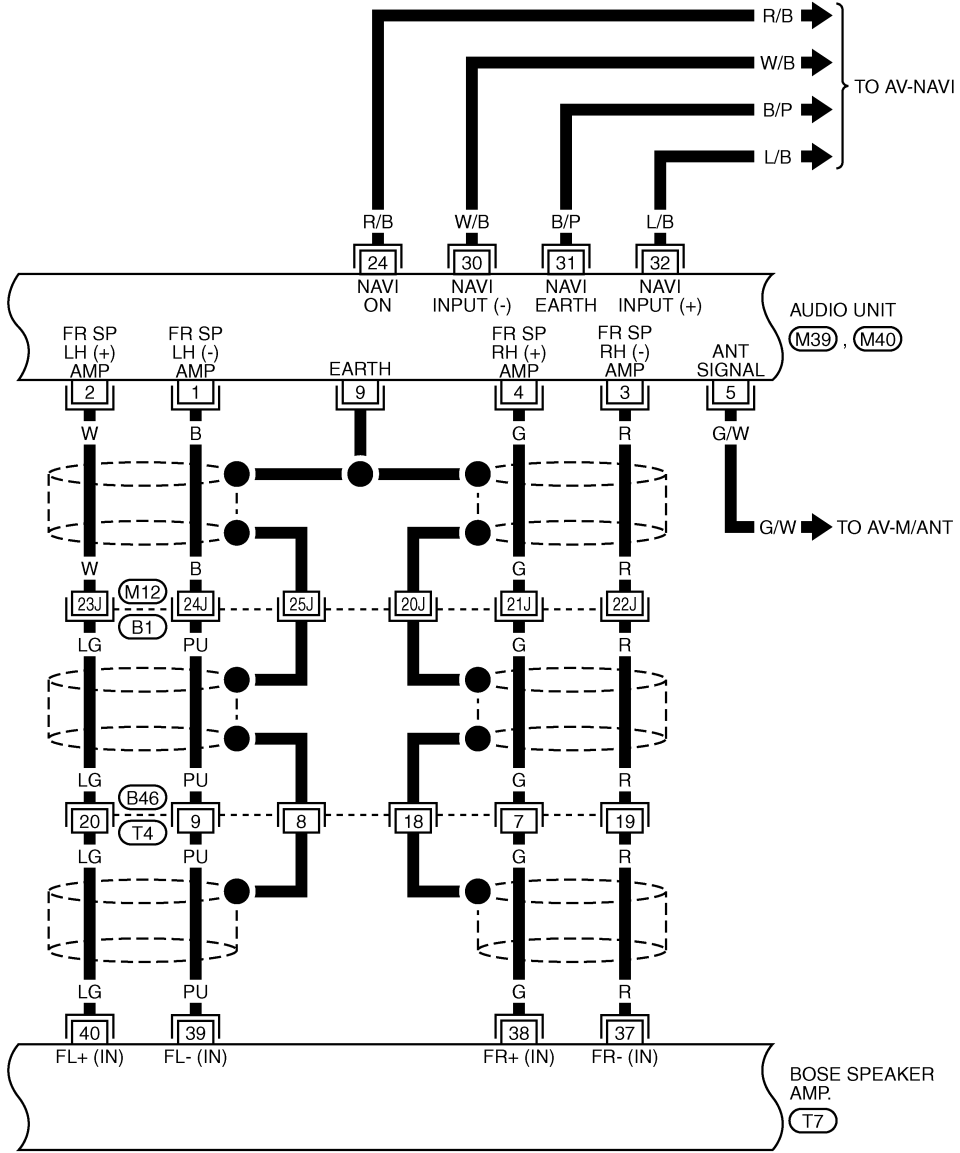
REFER TO THE FOLLOWING.
 (E108), (B1) -SUPER MULTIPLE JUNCTION (SMJ)
 (M4), (E102) -FUSE BLOCK-JUNCTION BOX (J/B)

TKWT1536E

AUDIO

AV-AUDIO-13

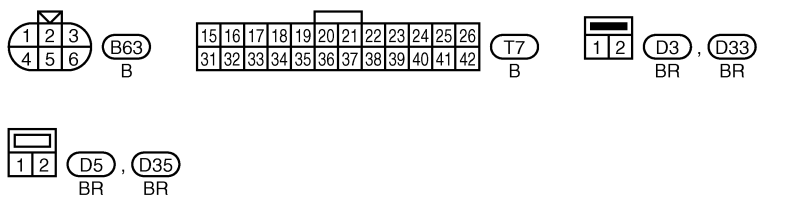
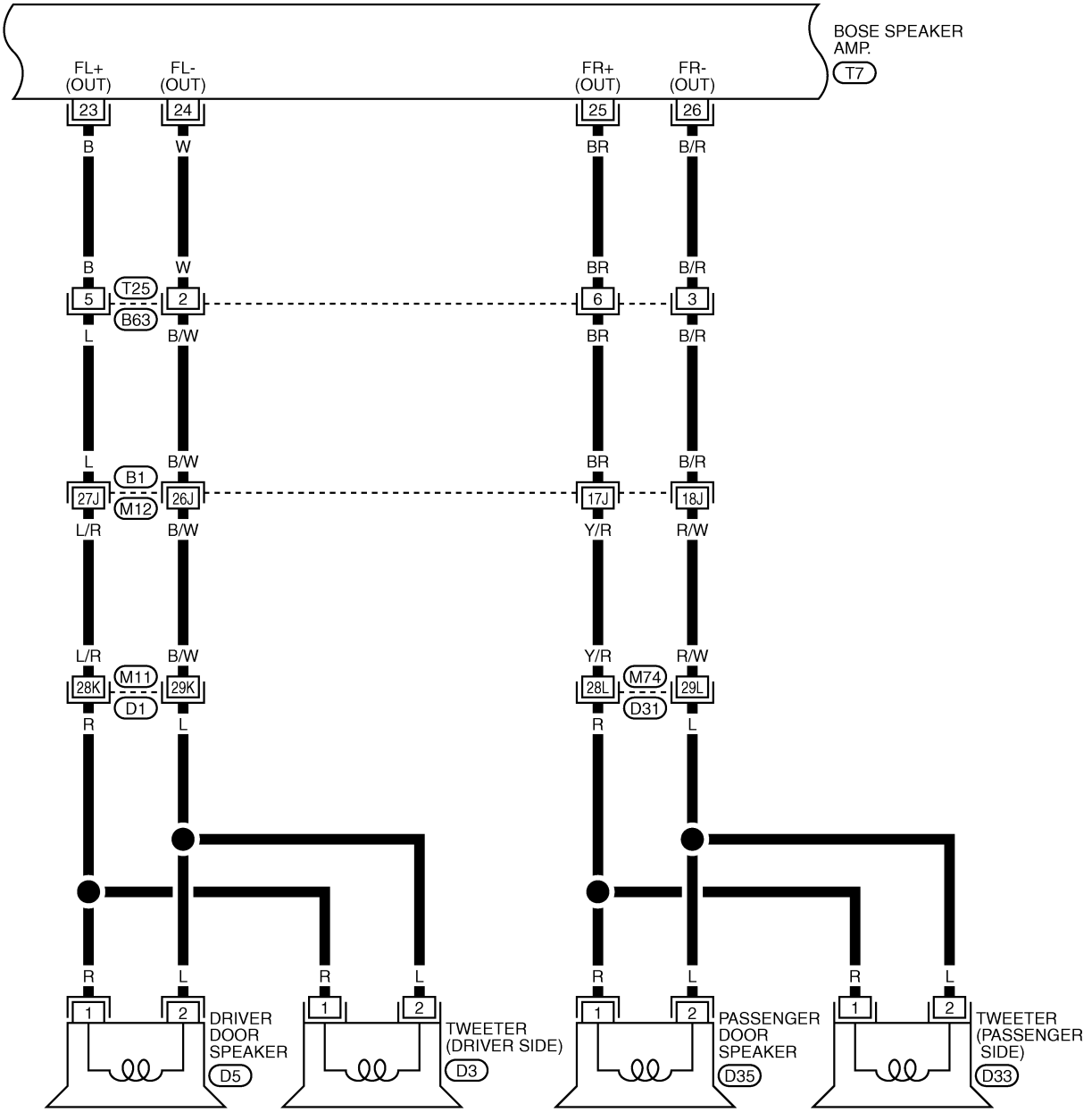
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REFER TO THE FOLLOWING.
(B1) -SUPER MULTIPLE JUNCTION (SMJ)

AUDIO

AV-AUDIO-14

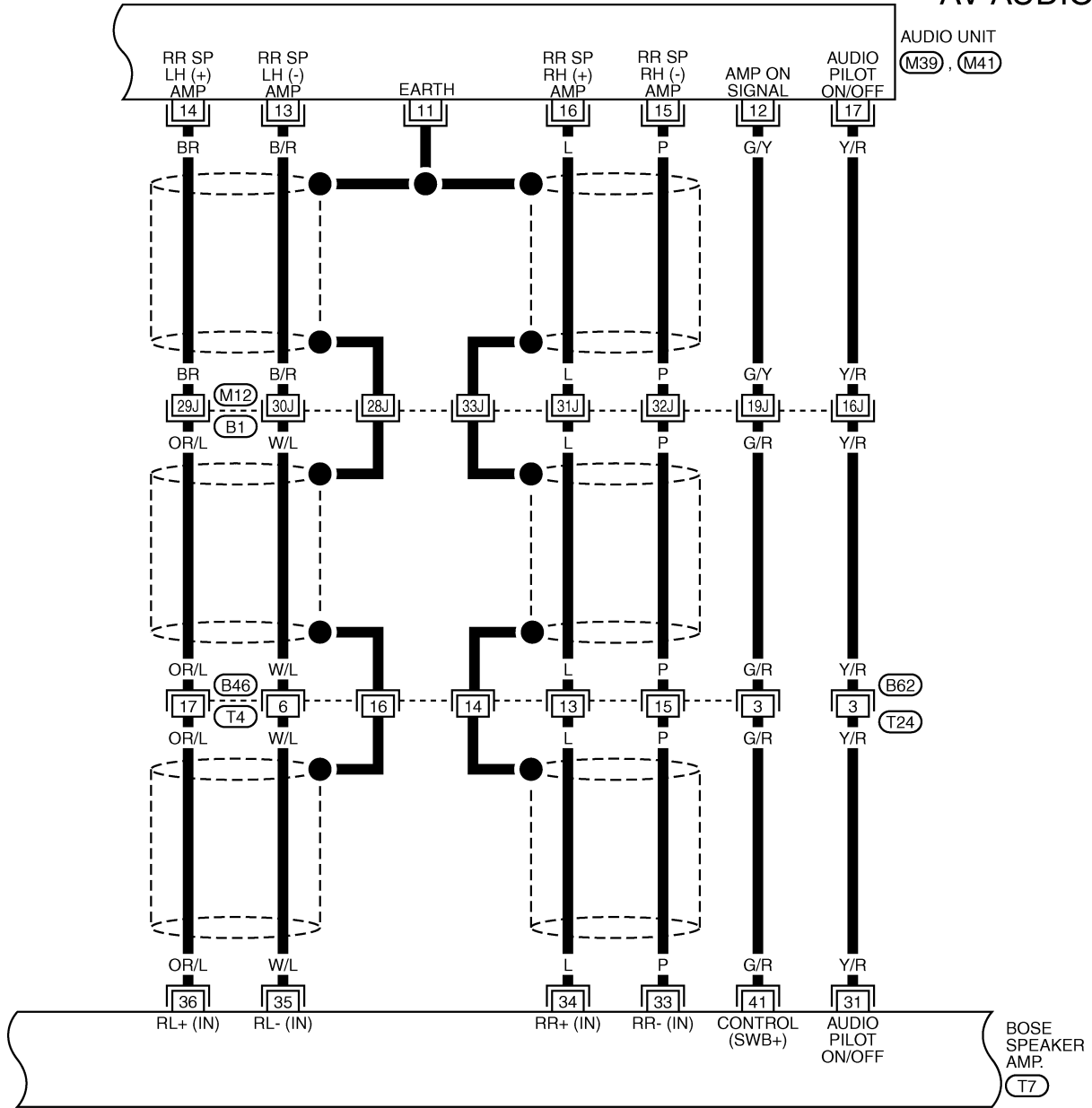


REFER TO THE FOLLOWING.
 (B1), (D1), (D31) -SUPER
 MULTIPLE JUNCTION (SMJ)

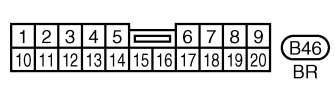
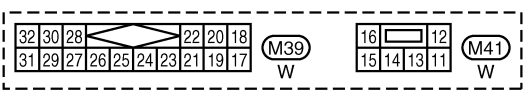
TKWT1538E

AUDIO

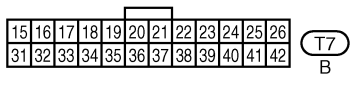
AV-AUDIO-15



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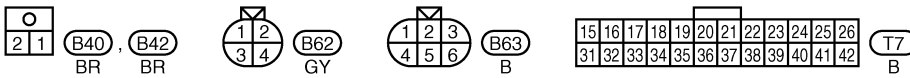
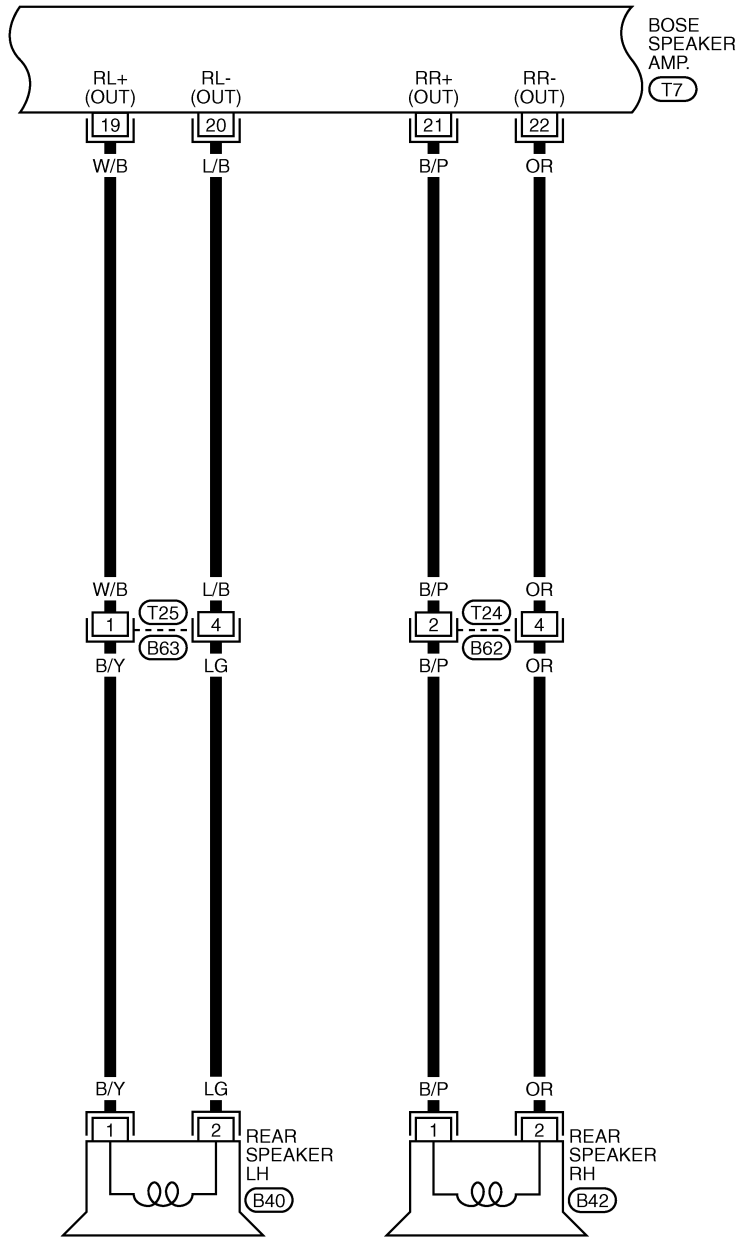
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 (B1) -SUPER MULTIPLE JUNCTION (SMJ)



TKWT1879E

AUDIO

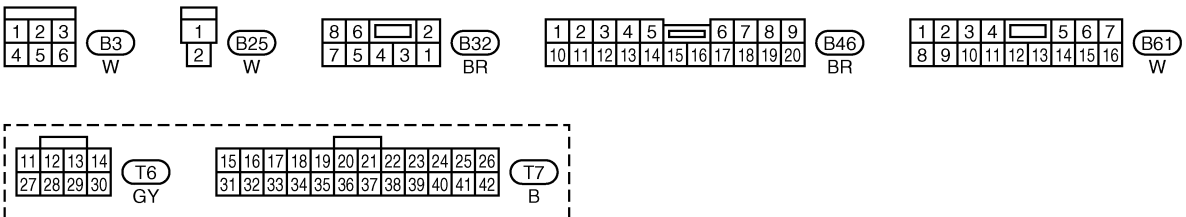
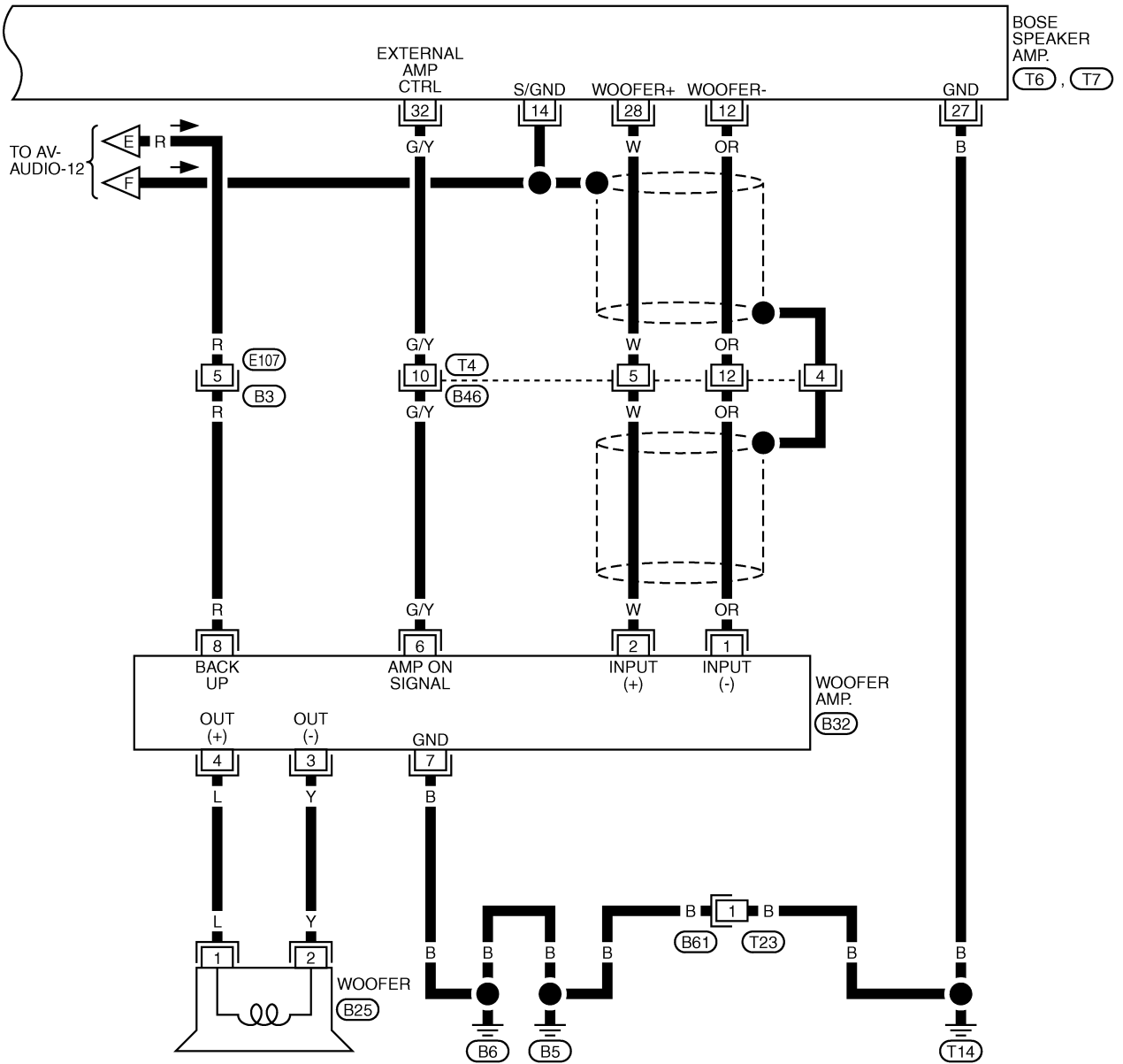
AV-AUDIO-16



TKWT1540E

AUDIO

AV-AUDIO-17

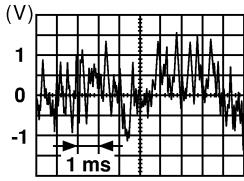
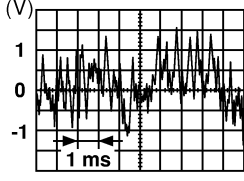
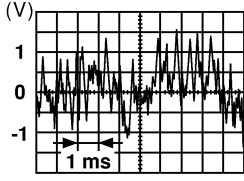
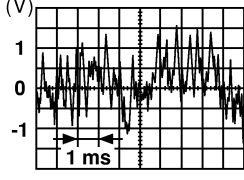


TKWT1541E

AUDIO

Terminals and Reference Value for Audio Unit for Base System

AKS0010K

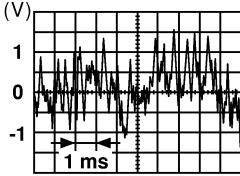
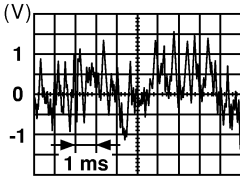
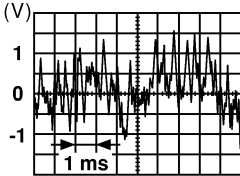
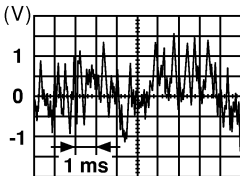
Terminal (Wire color)		Item	Signal input/ output	Condition		Reference value	Example of symptom
+	-			Ignition switch	Operation		
2 (L/R) ^{*1} (W) ^{*2}	1 (B/W) ^{*1} (B) ^{*2}	Audio sound signal front LH	Output	ON	Receive audio signal	 <p style="text-align: right; font-size: small;">SKIA0177E</p>	No sound from driver door speaker and tweeter (driver side).
4 (Y/R) ^{*1} (G) ^{*2}	3 (R/W) ^{*1} (R) ^{*2}	Audio sound signal front RH	Output	ON	Receive audio signal	 <p style="text-align: right; font-size: small;">SKIA0177E</p>	No sound from passenger door speaker and tweeter (passen- ger side).
5 (G/W)	Ground	Antenna signal	Output	ON	-	Approx. 12V	Antenna amp. does not work properly.
6 (Y)	Ground	Battery power supply	Input	OFF	-	Battery voltage	System does not work properly.
7 (R/Y)	Ground	Illumination control signal	Input	ON	Illumination control switch is operated by lighting switch in ON position	Changes between approx. 0 and approx. 12V	Audio unit illumina- tion cannot be controlled.
8 (R/L)	Ground	Lighting switch signal	Input	ON	Lighting switch ON	Approx. 12V	Audio unit illumina- tion does not function when lighting switch is ON.
				OFF	Lighting switch OFF	Approx. 0V	
10 (LG)	Ground	ACC power supply	Input	ACC	-	Battery voltage	System does not work properly.
14 (LG/R) ^{*1} (BR) ^{*2}	13 (B/Y) ^{*1} (B/R) ^{*2}	Audio sound signal rear LH	Output	ON	Receive audio signal	 <p style="text-align: right; font-size: small;">SKIA0177E</p>	No sound from rear speaker LH.
16 (L/OR) ^{*1} (L) ^{*2}	15 (B/P) ^{*1} (P) ^{*2}	Audio sound signal rear RH	Output	ON	Receive audio signal	 <p style="text-align: right; font-size: small;">SKIA0177E</p>	No sound from rear speaker RH.

- *1: Coupe models with M/T without navigation system, VDC system and power seat for USA, or Roadster models without navigation system
- *2: Except *1

AUDIO

Terminals and Reference Value for Audio Unit for BOSE System

AKS0010L

Terminal (Wire color)		Item	Signal input/ output	Condition		Reference value	Example of symptom
+	-			Ignition switch	Operation		
2 (W)	1 (B)	Audio sound signal front LH	Output	ON	Receive audio signal	 SKIA0177E	No sound from driver door speaker and tweeter (driver side).
4 (G)	3 (R)	Audio sound signal front RH	Output	ON	Receive audio signal	 SKIA0177E	No sound from passenger door speaker and tweeter (passen- ger side).
5 (G/W)	Ground	Antenna signal	Output	ON	-	Approx. 12V	Antenna amp. does not work properly.
6 (Y)	Ground	Battery power supply	Input	OFF	-	Battery voltage	System does not work properly.
7 (R/Y)	Ground	Illumination control signal	Input	ON	Illumination control switch is operated by lighting switch in ON position	Changes between approx. 0 and approx. 12V	Audio unit illumina- tion cannot be controlled.
8 (R/L)	Ground	Lighting switch signal	Input	ON	Lighting switch ON	Approx. 12V	Audio unit illumina- tion does not come on when lighting switch is ON.
					Lighting switch OFF	Approx. 0V	
9	Ground	Shield	-	ON	-	Approx. 0V	-
10 (LG)	Ground	ACC power supply	Input	ACC	-	Battery voltage	System does not work properly.
11	Ground	Shield	-	ON	-	Approx. 0V	-
12 (G/Y)	Ground	Amp. ON signal	Output	ON	-	Approx. 12V	BOSE speaker amp. does not work properly.
14 (BR)	13 (B/R)	Audio sound signal rear LH	Output	ON	Receive audio signal	 SKIA0177E	No sound from rear speaker LH.
16 (L)	15 (P)	Audio sound signal rear RH	Output	ON	Receive audio signal	 SKIA0177E	No sound from rear speaker RH.

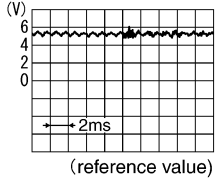
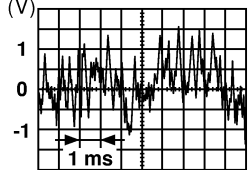
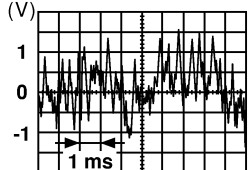
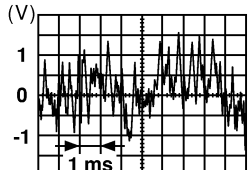
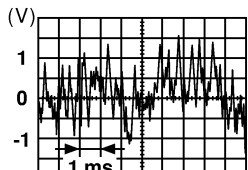
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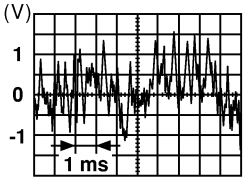
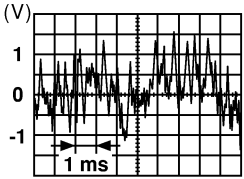
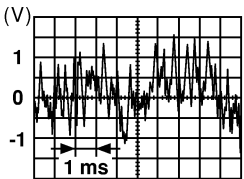
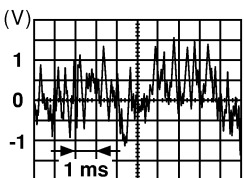
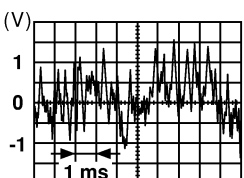
AUDIO

Terminal (Wire color)		Item	Signal input/ output	Condition		Reference value	Example of symptom
+	-			Ignition switch	Operation		
17 (Y/R)	Ground	AudioPilot® ON/OFF signal	Output	ON	AudioPilot® OFF	Approx. 7.5V	AudioPilot® sys- tem does not operate properly.
					AudioPilot® ON	Approx. 0V	

Terminals and Reference Value for BOSE Speaker Amp. AKS0010M

Terminal (Wire color)		Item	Signal input/ output	Condition		Reference value	Example of symptom
+	-			Ignition switch	Operation		
11 (Y)	Ground	Battery power supply	Input	ON	-	Battery voltage	BOSE speaker amp. does not work properly.
14	Ground	Shield	-	ON	-	Approx. 0V	-
17 (R/B) ^{*1} (L/Y) ^{*2}	18 (R/W) ^{*1} (L/G) ^{*2}	Microphone signal	Input	ON	Microphone test operate	 (reference value) PKIA2104E	AudioPilot® sys- tem does not operate properly.
19 (W/B)	20 (L/B)	Audio sound signal rear LH	Output	ON	Receive audio signal	 SKIA0177E	No sound from rear speaker LH.
21 (G) ^{*1} (B/P) ^{*2}	22 (G/W) ^{*1} (OR) ^{*2}	Audio sound signal rear RH	Output	ON	Receive audio signal	 SKIA0177E	No sound from rear speaker RH.
23 (B)	24 (W)	Audio sound signal front LH	Output	ON	Receive audio signal	 SKIA0177E	No sound from driver door speaker and tweeter (driver side).
25 (BR)	26 (B/R)	Audio sound signal front RH	Output	ON	Receive audio signal	 SKIA0177E	No sound from passenger door speaker and tweeter (passen- ger side).
27 (B)	Ground	Ground	-	ON	-	Approx. 0V	-

AUDIO

Terminal (Wire color)		Item	Signal input/ output	Condition		Reference value	Example of symptom
+	-			Ignition switch	Operation		
28 (W)	12 (OR)	Audio sound signal woofer	Output	ON	Receive audio signal	 SKIA0177E	No sound from woofer.
31 (Y/R)	Ground	AudioPilot® ON/OFF signal	Input	ON	AudioPilot® OFF	Approx. 7.5V	AudioPilot® sys- tem does not operate properly.
					AudioPilot® ON	Approx. 0V	
32 (G/R) ^{*1} (G/Y) ^{*2}	Ground	External amp. control signal	Output	ON	-	Approx. 12V	Woofer amp. does not work properly.
34 (L)	33 (P)	Audio sound signal rear RH	Input	ON	Receive audio signal	 SKIA0177E	No sound from rear speaker RH.
36 (Y/G) ^{*1} (OR/L) ^{*2}	35 (Y/L) ^{*1} (W/L) ^{*2}	Audio sound signal rear LH	Input	ON	Receive audio signal	 SKIA0177E	No sound from rear speaker LH.
38 (G)	37 (R)	Audio sound signal front RH	Input	ON	Receive audio signal	 SKIA0177E	No sound from passenger door speaker and tweeter (passen- ger side).
40 (LG)	39 (PU)	Audio sound signal front LH	Input	ON	Receive audio signal	 SKIA0177E	No sound from driver door speaker and tweeter (driver side).
41 (G/Y) ^{*1} (G/R) ^{*2}	Ground	Control signal (SWB+)	Input	ON	-	Approx. 12V	BOSE speaker amp. does not work properly.

*1: Coupe models

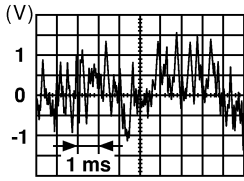
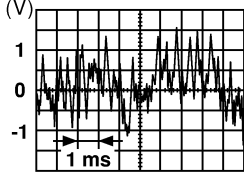
*2: Roadster models

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AUDIO

Terminals and Reference Value for Woofer Amp.

AKS009RD

Terminal (Wire color)		Item	Signal input/ output	Condition		Reference value	Example of symptom
+	-			Ignition switch	Operation		
2 (W)	1 (OR)	Audio sound signal woofer	Input	ON	Receive audio signal	 <p style="text-align: right; font-size: small;">SKIA0177E</p>	No sound from woofer.
4 (L)	3 (Y)	Audio sound signal woofer	Output	ON	Receive audio signal	 <p style="text-align: right; font-size: small;">SKIA0177E</p>	No sound from woofer.
6 (G/Y)	Ground	Amp. ON sig- nal	Input	ON	-	Approx. 12V	Woofer amp. does not work properly.
7 (B)	Ground	Ground	-	ON	-	Approx. 0V	-
8 (R)	Ground	Battery power supply	Input	OFF	-	Battery voltage	Woofer amp. does not work properly.