

REFERENCES

Source name	KMM-BT204
	Display information
STANDBY	Source name ➡ Clock ➡ (back to the beginning)
RADIO	Frequency ➡ Clock ➡ (back to the beginning)
	(For FM Radio Data System only) Station name ➡ Radio text ➡ Radio text+ ➡ Title/Artist ➡ Frequency ➡ Clock ➡ (back to the beginning)
USB	(For MP3/WMA/AAC/WAV/FLAC files) Song title/Artist ➡ Album title/Artist ➡ Folder name ➡ File name ➡ Playing time ➡ Clock ➡ (back to the beginning)
iPod USB/ iPod BT or ANDROID	When [MODE OFF]/[BROWSE MODE] is selected (➡ 9): Song title/Artist ➡ Album title/Artist ➡ Playing time ➡ Clock ➡ (back to the beginning)
PANDORA/ PANDORA BT	Station name ➡ Shared/Radio station ➡ Song title ➡ Artist ➡ Album title ➡ Playing time ➡ Clock ➡ (back to the beginning)
SPOTIFY/ SPOTIFY BT	Context title ➡ Song title ➡ Artist name ➡ Album name ➡ Playing time ➡ Clock ➡ (back to the beginning)
BT AUDIO	Song title/Artist ➡ Album title/Artist ➡ Playing time ➡ Clock ➡ (back to the beginning)
AUX	Source name ➡ Clock ➡ (back to the beginning)

INSTALLATION/CONNECTION

⚠ Warning

- The unit can only be used with a 12 V DC power supply, negative ground.
- Disconnect the battery's negative terminal before wiring and mounting.
- Do not connect Battery wire (yellow) and Ignition wire (red) to the car chassis or Ground wire (black) to prevent a short circuit.
- To prevent short circuit:
 - Insulate unconnected wires with vinyl tape.
 - Be sure to ground this unit to the car's chassis again after installation.
 - Secure the wires with cable clamps and wrap vinyl tape around the wires that come into contact with metal parts to protect the wires.

⚠ Caution

- For safety's sake, leave wiring and mounting to professionals. Consult the car audio dealer.
- Install this unit in the console of your vehicle. Do not touch the metal parts of this unit during and shortly after use of the unit. Metal parts such as the heat sink and enclosure become hot.
- Do not connect the ⊖ wires of speakers to the car chassis or Ground wire (black), or connect them in parallel.
- Mount the unit at an angle of less than 30°.
- If your vehicle wiring harness does not have the ignition terminal, connect Ignition wire (red) to the terminal on the vehicle's fuse box which provides 12 V DC power supply and is turned on and off by the ignition key.
- Keep all cables away from heat dissipate metal parts.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- If the fuse blows, first make sure the wires are not touching car's chassis, then replace the old fuse with one that has the same rating.

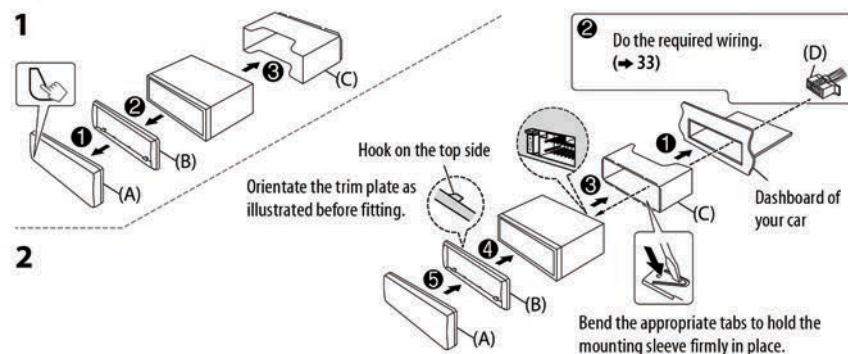
Basic procedure

- 1 Remove the key from the ignition switch, then disconnect the ⊖ terminal of the car battery.
- 2 Connect the wires properly.
See Wiring connection. (➡ 33)
- 3 Install the unit to your car.
See Installing the unit (in-dash mounting). (➡ 32)
- 4 Connect the ⊖ terminal of the car battery.
- 5 Press **SRC** to turn on the power.
- 6 Detach the faceplate and reset the unit within 5 seconds. (➡ 3)

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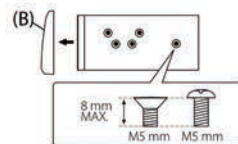
INSTALLATION/CONNECTION

Installing the unit (in-dash mounting)



When installing without the mounting sleeve

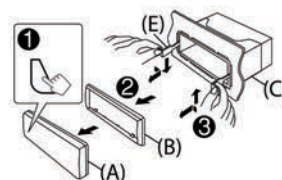
- 1 Remove the mounting sleeve and trim plate from the unit.
- 2 Align the holes in the unit (on both sides) with the vehicle mounting bracket and secure the unit with screws (supplied).



▲ Use only the specified screws. Using wrong screws might damage the unit.

How to remove the unit

- 1 Detach the faceplate.
- 2 Remove the trim plate.
- 3 Insert the extraction keys deeply into the slots on each side, then follow the arrows as shown on the illustration.



Part list for installation

(A) Faceplate (×1)

(B) Trim plate (×1)

(C) Mounting sleeve (×1)

(D) Wiring harness (×1)

(E) Extraction key (×2)

(F) Screws

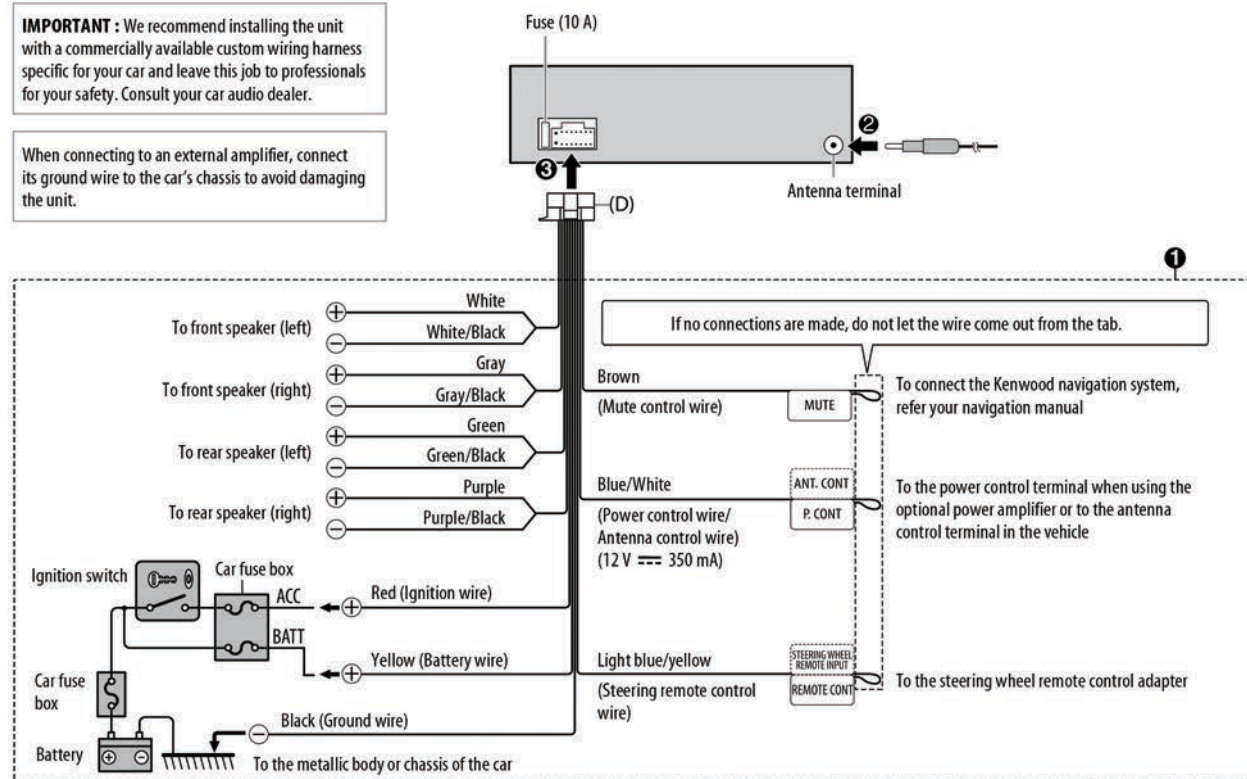
- M5 × 8 mm (×4)
- M5 × 8 mm (×4)
- M4 × 8 mm (×1)

INSTALLATION/CONNECTION

Wiring connection

IMPORTANT : We recommend installing the unit with a commercially available custom wiring harness specific for your car and leave this job to professionals for your safety. Consult your car audio dealer.

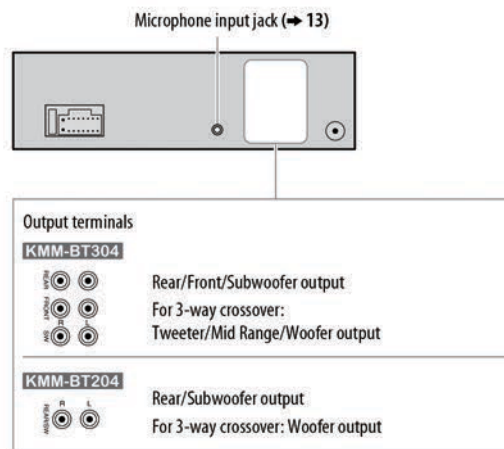
When connecting to an external amplifier, connect its ground wire to the car's chassis to avoid damaging the unit.



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INSTALLATION/CONNECTION

Connecting external components



SPECIFICATIONS

Tuner	FM	Frequency Range	87.5 MHz — 108.0 MHz (50 kHz space)	
		Usable Sensitivity (S/N = 26 dB)	8.2 dBf (0.71 µV/75 Ω)	
		Quieting Sensitivity (DIN S/N = 46 dB)	17.2 dBf (2.0 µV/75 Ω)	
		Frequency Response (±3 dB)	30 Hz — 15 kHz	
		Signal-to-Noise Ratio (MONO)	64 dB	
		Stereo Separation (1 kHz)	40 dB	
	AM	Frequency Range	Band 1 (MW)	531 kHz — 1 602 kHz (9 kHz space)
			Band 2 (SW1)	2 940 kHz — 7 735 kHz (5 kHz space)
			Band 3 (SW2)	9 500 kHz — 10 135 kHz / 11 580 kHz — 18 135 kHz (5 kHz space)
		Channel Space Selection	Band 1	9 kHz
			Band 2 / 3	5 kHz
		Usable Sensitivity (S/N = 20 dB)	MW	29.0 dBµ (28.2 µV)
			SW	30 dBµ (32 µV)

SPECIFICATIONS

USB	USB Standard	USB 1.1, USB 2.0 Full Speed
	File System	FAT12/16/32
	Maximum Supply Current	DC 5 V $\leq$ 1.5 A
	Frequency Response (± 1 dB)	20 Hz — 20 kHz
	Signal-to-Noise Ratio (1 kHz)	105 dB
	Dynamic Range	90 dB
	Channel Separation	85 dB
	MP3 Decode	Compliant with MPEG-1/2 Audio Layer-3
	WMA Decode	Compliant with Windows Media Audio
	AAC Decode	AAC-LC “.aac”, “.m4a” files
Bluetooth	WAV Decode	Linear-PCM
	FLAC Decode	FLAC file (Up to 96 kHz/24 bit)
	Version	Bluetooth 3.0
	Frequency Range	2.402 GHz — 2.480 GHz
	Output Power	+4 dBm (MAX), 0 dBm (AVE) Power Class 2
Auxiliary	Maximum Communication Range	Line of sight approx. 10 m (32.8 ft)
	Profile	HFP 1.6 (Hands-Free Profile) A2DP (Advanced Audio Distribution Profile) AVRCP 1.5 (Audio/Video Remote Control Profile) SPP (Serial Port Profile) PBAP (Phonebook Access Profile)
	Frequency Response (± 3 dB)	20 Hz — 20 kHz
	Input Maximum Voltage	1 000 mV
		Input Impedance 30 k Ω
Audio	Maximum Output Power	50 W $\times$ 4
	Full Bandwidth Power	22 W $\times$ 4 (at less than 1 % THD)
	Speaker Impedance	4 Ω — 8 Ω
	Tone Action	Band 1: 62.5 Hz $\pm$ 9 dB Band 2: 100 Hz $\pm$ 9 dB Band 3: 160 Hz $\pm$ 9 dB Band 4: 250 Hz $\pm$ 9 dB Band 5: 400 Hz $\pm$ 9 dB Band 6: 630 Hz $\pm$ 9 dB Band 7: 1 kHz $\pm$ 9 dB Band 8: 1.6 kHz $\pm$ 9 dB Band 9: 2.5 kHz $\pm$ 9 dB Band 10: 4 kHz $\pm$ 9 dB Band 11: 6.3 kHz $\pm$ 9 dB Band 12: 10 kHz $\pm$ 9 dB Band 13: 16 kHz $\pm$ 9 dB
	Preout Level/Load (USB)	KMM-BT304 : 4 000 mV/10 k Ω KMM-BT204 : 2 500 mV/10 k Ω
	Preout Impedance	$\leq$ 600 Ω
	Operating Voltage	14.4 V (10.5 V — 16 V allowable)
	Maximum Current Consumption	10 A
	Operational Temperature Range	–10°C — +60°C
General	Installation Size (W $\times$ H $\times$ D)	182 mm $\times$ 53 mm $\times$ 100 mm
	Net Weight (includes Trimplate, Mounting Sleeve)	0.6 kg

Subject to change without notice.

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libFLAC

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KENWOOD

KMM-BT304
KMM-BT204

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دليل التعليمات

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