

KENWOOD

KAC-M1814

COMPACT 4 CHANNEL DIGITAL AMPLIFIER

INSTRUCTION MANUAL

AMPLIFICATEUR COMPACT DIGITAL 4 CANAUX

MODE D'EMPLOI

AMPLIFICADOR DIGITAL COMPACTO DE CUATRO CANALES

MANUAL DE INSTRUCCIONES

JVC KENWOOD Corporation

Take the time to read through this instruction manual.

Familiarity with installation and operation procedures will help you obtain the best performance from your new power amplifier.

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your Kenwood dealer for information or service on the product.

Model KAC-M1814 Serial number _____

US Residence Only

Register Online

Register your Kenwood product at **www.kenwood.com/usa**

Specifications

Specifications subject to change without notice.

Audio section

Max power output.....	400 W
Rated power output (+B = 14.4 V)	
Stereo (2 Ω).....	45 W $\times$ 4 (1 kHz, $\leq$ 1.0% THD)
Bridged (4 Ω).....	90 W $\times$ 2 (1 kHz, $\leq$ 1.0% THD)
Speaker impedance.....	4 Ω (2 Ω to 8 Ω allowable)
(Bridged connection: 4 Ω to 8 Ω allowable)	
Frequency response (+0, -1 dB).....	20 Hz–20 kHz
Input sensitivity (RCA).....	0.2 V–5.0 V
Signal to noise ratio.....	98 dB
Input impedance.....	10 k Ω
Low pass filter frequency (-12 dB/oct.)	
.....	50 Hz–200 Hz (variable)
High pass filter frequency (-12 dB/oct.)	
.....	50 Hz–200 Hz (variable)

General

Operating voltage.....	12 V DC car battery
Current consumption.....	15 A
Dimensions (W $\times$ H $\times$ D).....	145 $\times$ 45 $\times$ 99 mm
	5-11/16 $\times$ 1-3/4 $\times$ 3-7/8 inch
Weight.....	0.7 kg (1.5 lbs)

45 Watts RMS $\times$ 4 at 4 Ohms and $\leq$ 1% THD+N
82 dBA (Reference: 1 Watt into 4 Ohms)



Spécifications

Les spécifications sont sujettes à changements sans notification.

Section audio

Puissance de sortie maximale.....	400 W
Puissance de sortie nominale (+B = 14,4 V)	
Stéréo (2 Ω).....	45 W $\times$ 4 (1 kHz, $\leq$ 1,0% THD)
Pont (4 Ω).....	90 W $\times$ 2 (1 kHz, $\leq$ 1,0% THD)
Impédance d'enceinte.....	4 Ω (2 Ω à 8 Ω admissible)
(Connexions en pont: 4 Ω à 8 Ω admissible)	
Réponse en fréquence (+0, -1 dB).....	20 Hz–20 kHz
Sensibilité d'entrée (RCA).....	0,2 V–5,0 V
Taux de signal/bruit.....	98 dB
Impédance d'entrée.....	10 k Ω
Fréquence du filtre passe-bas (-12 dB/oct.)	
.....	50 Hz–200 Hz (variable)
Fréquence du filtre passe-haut (-12 dB/oct.)	
.....	50 Hz–200 Hz (variable)

Général

Tension de fonctionnement.....	Batterie de voiture 12 V CC
Courant absorbé.....	15 A
Taille d'installation (L $\times$ H $\times$ P).....	145 $\times$ 45 $\times$ 99 mm
	5-11/16 $\times$ 1-3/4 $\times$ 3-7/8 pouce
Masse.....	0,7 kg (1,5 lbs)

45 Watts RMS $\times$ 4 à 4 Ohms et $\leq$ 1% THD+N
82 dBA (Référence: 1 Watt dans 4 Ohms)



Especificaciones

Las especificaciones se encuentran sujetas a cambios sin previo aviso.

Sección de audio

Máxima potencia de salida.....	400 W
Salida de potencia nominal (+B = 14,4 V)	
Estereofónicas (2 Ω).....	45 W $\times$ 4
(1 kHz, $\leq$ 1,0% de distorsión armónica total)	
Punteada (4 Ω).....	90 W $\times$ 2
(1 kHz, $\leq$ 1,0% de distorsión armónica total)	
Impedancia de altavoz.....	4 Ω (2 Ω a 8 Ω permitido)
(Conexiones en puente: 4 Ω a 8 Ω permitido)	
Respuesta de frecuencia (+0, -1 dB).....	20 Hz–20 kHz
Sensibilidad de entrada (RCA).....	0,2 V–5,0 V
Relación señal a ruido.....	98 dB
Impedancia de entrada.....	10 k Ω
Frecuencia del filtro pasa bajos (-12 dB/octava)	
.....	50 Hz–200 Hz (variable)
Frecuencia del filtro pasa altos (-12 dB/octava)	
.....	50 Hz–200 Hz (variable)

General

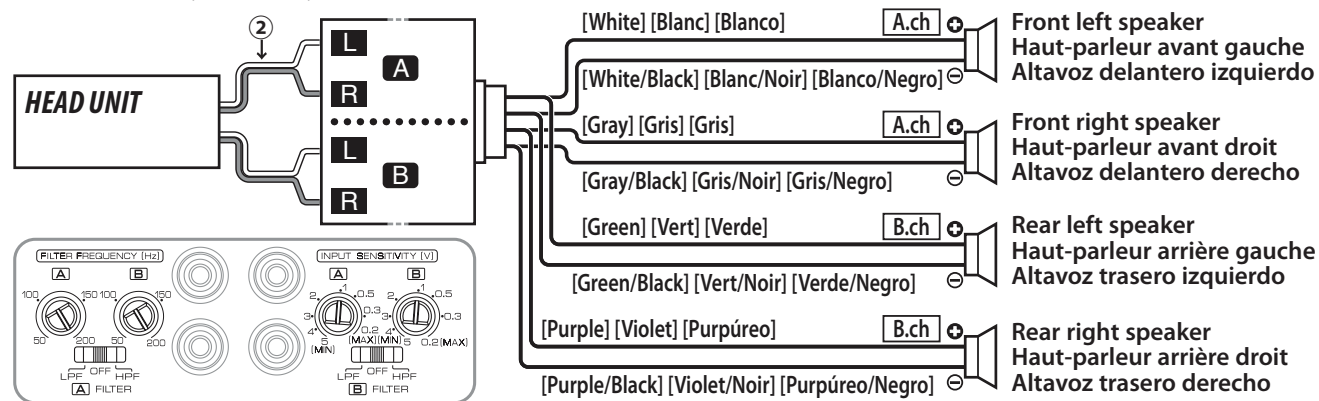
Tensión de funcionamiento.....	Batería de coche de 12 V CC
Consumo.....	15 A
Tamaño de instalación (Anch $\times$ Alt $\times$ Prof).....	145 $\times$ 45 $\times$ 99 mm
	5-11/16 $\times$ 1-3/4 $\times$ 3-7/8 pulgada
Peso.....	0,7 kg (1,5 libras)

45 Vatios RMS $\times$ 4 a 4 Ohmios y $\leq$ 1% de distorsión armónica total+N
82 dBA (Referencia: 1 Vatio en 4 Ohmios)

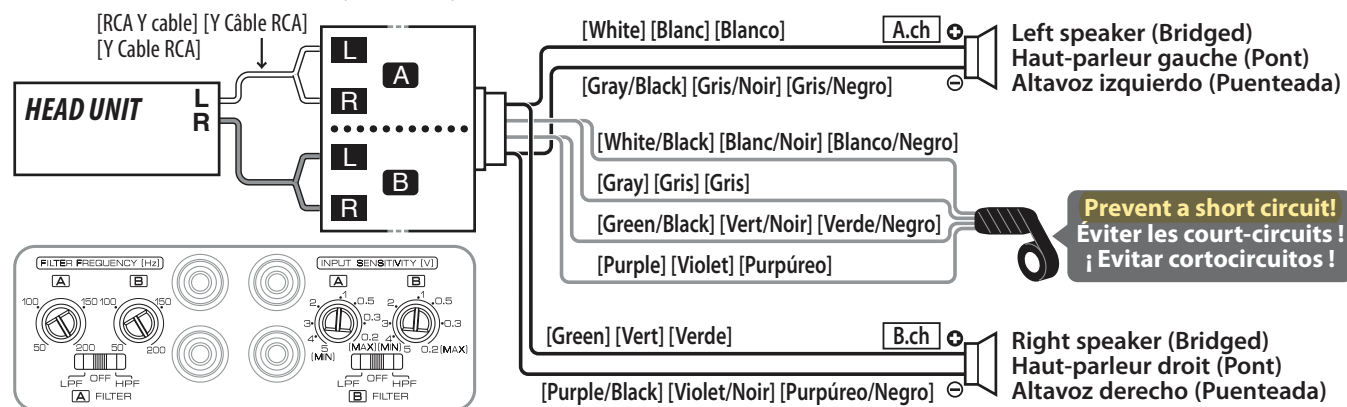


System examples / Exemple de configuration / Ejemplos del sistema

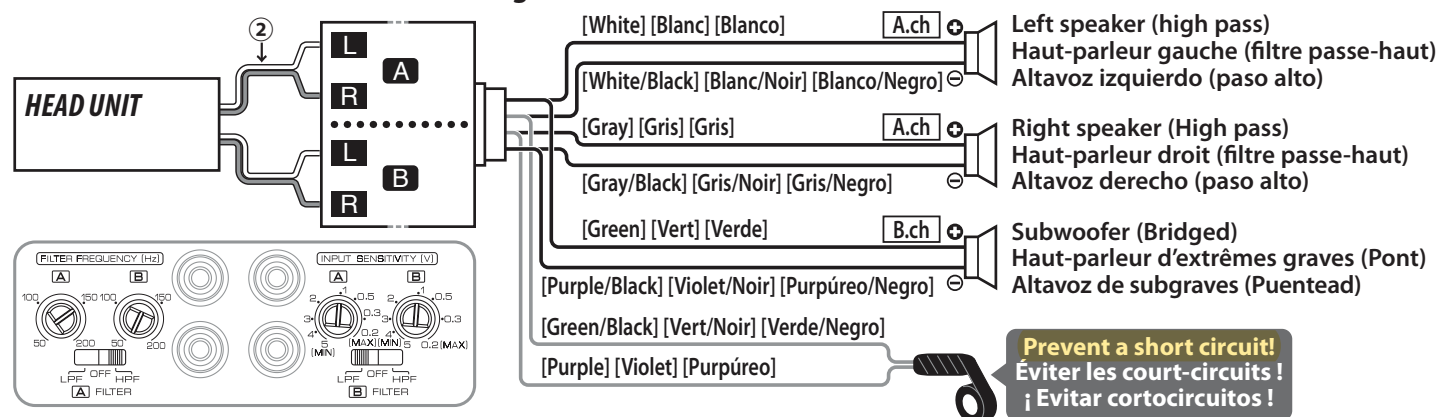
■ 4-channel system / Système 4 voies / Sistema de 4 canales



■ High-power 2-channel system / Système 2 voies, puissance élevée / Sistema de 2 canales de alta potencia



■ 2-channel + Subwoofer system / Système 2 voies + enceinte d'extrêmes graves / Sistema de 2 canales + Altavoz de subgraves



For U.S.A.

FCC WARNING

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

FCC NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment may cause harmful interference to radio communications, if it is not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Supplier's Declaration of Conformity

Trade Name: KENWOOD
Products: COMPACT 4 CHANNEL DIGITAL AMPLIFIER
Model Name: KAC-M1814
Responsible Party: JVCKENWOOD USA CORPORATION
2201 East Dominguez Street,
Long Beach, CA 90810, U.S.A.
PHONE: 310 639-9000

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

- (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
- (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.



*For Europe
Pour l'Europe
Para Europa*

Declaration of Conformity with regard to the EMC Directive 2014/30/EU

Declaration of Conformity with regard to the RoHS Directive 2011/65/EU

Manufacturer:

JVC KENWOOD Corporation
3-12, Moriya-cho, Kanagawa-ku, Yokohama-shi,
Kanagawa, 221-0022, JAPAN

EU Representative:

JVCKENWOOD Europe B.V.
Amsterdamseweg 37, 1422 AC Uithoorn,
THE NETHERLANDS

Déclaration de conformité se rapportant à la directive EMC 2014/30/UE

Declaración de conformidad se rapportant à la directive RoHS 2011/65/UE

Fabricant:

JVC KENWOOD Corporation
3-12, Moriya-cho, Kanagawa-ku, Yokohama-shi,
Kanagawa, 221-0022, JAPAN

Représentants dans l'UE:

JVCKENWOOD Europe B.V.
Amsterdamseweg 37, 1422 AC Uithoorn, PAYS-BAS

Declaración de conformidad con respecto a la Directiva EMC 2014/30/UE

Declaración de conformidad con respecto a la Directiva RoHS 2011/65/UE

Fabricante:

JVC KENWOOD Corporation
3-12, Moriya-cho, Kanagawa-ku, Yokohama-shi,
Kanagawa, 221-0022, JAPAN

Representante en la UE:

JVCKENWOOD Europe B.V.
Amsterdamseweg 37, 1422 AC Uithoorn, PAÍSES
BAJOS



Information on Disposal of Old Electrical and Electronic Equipment (applicable for countries that have adopted separate waste collection systems)

Products with the symbol (crossed-out wheeled bin) cannot be disposed as household waste. Old electrical and electronic equipment should be recycled at a facility capable of handling these items and their waste byproducts. Contact your local authority for details in locating a recycle facility nearest to you. Proper recycling and waste disposal will help conserve resources whilst preventing detrimental effects on our health and the environment.

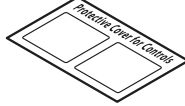
Information sur l'élimination des anciens équipements électriques et électroniques (applicable dans les pays qui ont adopté des systèmes de collecte sélective)

Les produits sur lesquels le pictogramme (poubelle barrée) est apposé ne peuvent pas être éliminés comme ordures ménagères. Les anciens équipements électriques et électroniques doivent être recyclés sur des sites capables de traiter ces produits et leurs déchets. Contactez vos autorités locales pour connaître le site de recyclage le plus proche. Un recyclage adapté et l'élimination des déchets aideront à conserver les ressources et à nous préserver des leurs effets nocifs sur notre santé et sur l'environnement.

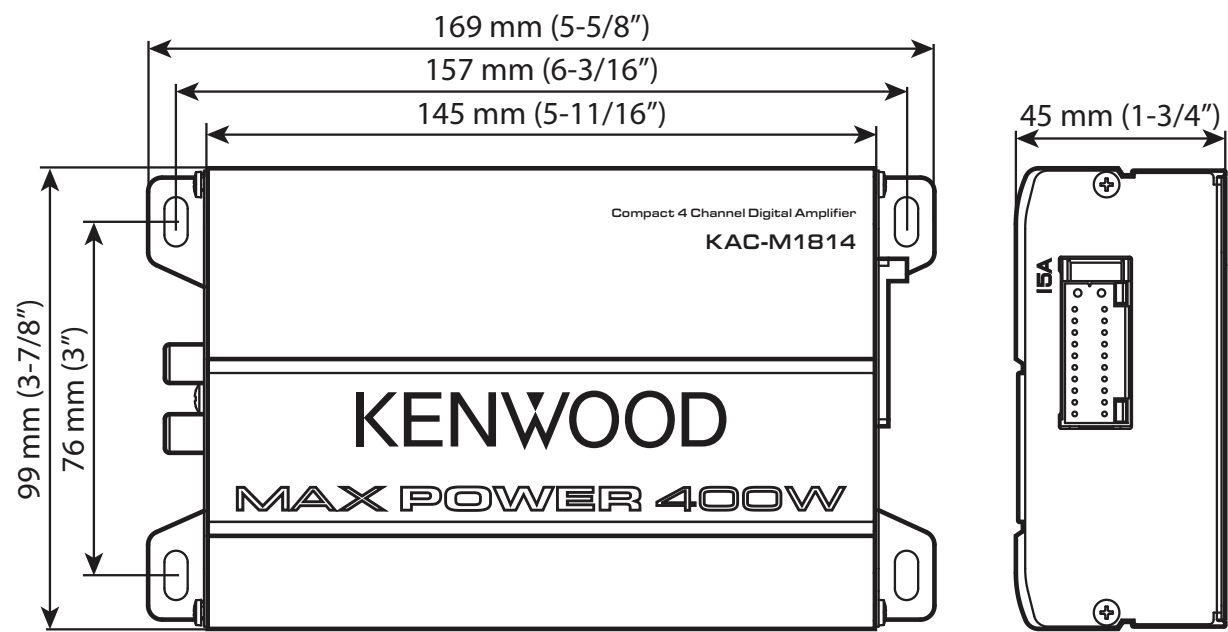
Información acerca de la eliminación de equipos eléctricos y electrónicos al final de la vida útil (aplicable a los países que hayan adoptado sistemas independientes de recogida de residuos)

Los productos con el símbolo de un contenedor con ruedas tachado no podrán ser desechados como residuos domésticos. Los equipos eléctricos y electrónicos al final de la vida útil, deberán ser reciclados en instalaciones que puedan dar el tratamiento adecuado a estos productos y a sus subproductos residuales correspondientes. Póngase en contacto con su administración local para obtener información sobre el punto de recogida más cercano. Un tratamiento correcto del reciclaje y la eliminación de residuos ayuda a conservar los recursos y evita al mismo tiempo efectos perjudiciales en la salud y el medio ambiente.

■ Accessories / Accessoires / Accesorios

①	 1.5 m (5 ft)	DC cable Câble CC Cable CC	1	④	 350 mm (13-3/4")	Wire band Serre-câble Atadura de cables	2
②	 1 m (3.3 ft)	RCA cable Câble RCA Cable RCA	2	⑤	 100 mm (3-15/16")	Wire band Serre-câble Atadura de cables	2
③	 Ø4×16 mm	Self-tapping screws Vis taraudeuses Tornillo autorroscantes	4	⑥		Protective cover Couvercle de protection Cubierta protectora	2

■ Dimensions / Dimensions / Dimensiones



Safety precautions

⚠ WARNING

To prevent injury or fire, take the following precautions:

- Mounting and wiring this product requires skills and experience. For safety's sake, leave the mounting and wiring work to professionals.
- To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit.
- If the unit starts to emit smoke or strange smells, turn off the power immediately and consult your KENWOOD dealer.
- Do not touch the unit during use because the surface of the unit becomes hot and may cause burns if touched.

⚠ CAUTION

To prevent damage to the machine, take the following precautions:

- Be sure the unit is connected to a 12 V DC power supply with a negative ground connection.
- Do not open the top or bottom covers of the unit.
- Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- When replacing a fuse, only use a new one with the prescribed rating. Using a fuse with the wrong rating may cause your unit to malfunction.
- To prevent a short circuit when replacing a fuse, first disconnect the wiring harness.

NOTE

- If you experience problems during installation, consult your KENWOOD dealer.
- If the unit does not seem to be working right, consult your KENWOOD dealer.

Cleaning the unit

If the front panel gets dirty, turn off the power and wipe the panel with a dry silicon cloth or soft cloth.

⚠ CAUTION

Do not wipe the panel with a hard cloth or a cloth dampened by volatile solvents such as paint thinner and alcohol. They can scratch the surface of the panel and/or cause the indicator letters to peel off.

To prevent battery rise

When the unit is used in the ACC ON position without turning the engine ON, it depletes the battery. Use it after starting the engine.

Protection function

The protection function is activated in the following situations:

This unit is equipped with a protection function for protecting this unit and your speakers from various accidents or problems that can occur.

When the protection function is triggered, the amplifier stops operating.

- When a speaker wire may be short-circuited.
- When a speaker output contacts ground.
- When the unit malfunctions and a DC signal is sent to the speaker output.
- When the internal temperature is high and unit won't operate.
- When detects a low impedance at the speaker connections.

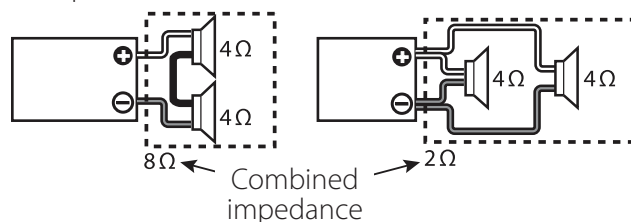
■ Wiring

- If a buzzing noise is heard from the speakers when the engine is running, connect a line noise filter (optional) to each of the battery wire.
- Do not allow the wire to directly contact the edge of the iron plate by using Grommets.
- Connect the ground wire to a metal part of the car chassis that acts as an electrical ground passing electricity to the battery's negative $\ominus$ terminal. Do not turn the power on if the ground wire is not connected.
- Be sure to install a protective fuse in the power cord near the battery. The protective fuse should be the same capacity as the unit's fuse capacity or somewhat larger.
- When more than one power amplifier are going to be used, use a power supply wiring wire and protective fuse of greater current-handling capacity than the total maximum current drawn by each amplifier.

■ Speaker selection

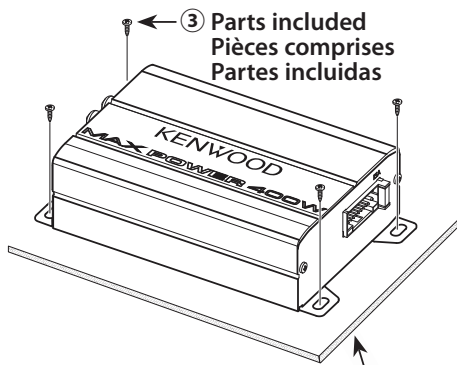
- Using speakers with smaller input ratings than the amplifier's output power would result in smoke generation or equipment failure.
- The impedance of the speakers that are going to be connected should be $2\ \Omega$ or greater (for stereo connections), or $4\ \Omega$ or greater (for bridged connections). When more than one set of speakers are going to be used, calculate the combined impedance of the speakers and then connect suitable speakers to the amplifier.

<Example>



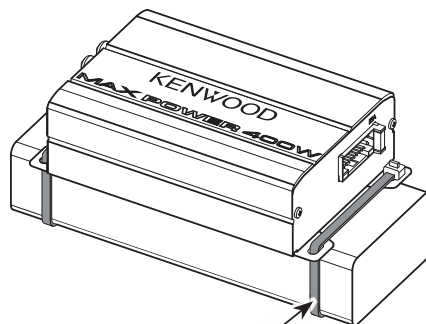
Installation / Installation / Instalación

Example A: using the screws
Exemple A: utilisation des vis
Ejemplo A: utilizando los tornillos



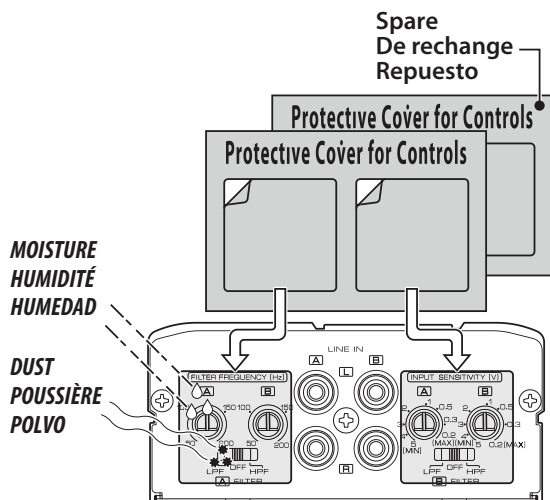
Installation board, etc. (thickness: 15 mm or more)
 Tableau d'installation, etc. (épaisseur: 15 mm ou plus)
 Tablero de instalación, etc. (grosor: 15 mm o más)

Example B: using the wire bands
Exemple B: utilisation des serre-câbles
Ejemplo B: utilizando los atadura de cables



④ Parts included
 Pièces comprises
 Partes incluidas
 (350 mm (13-3/4"))

Protective cover ⑥ / Couvercle de protection ⑥ / Cubierta protectora ⑥



After setting up the unit, put the protective cover ⑥ on the control panel.

Après avoir configuré l'unité, placez le couvercle de protection ⑥ sur le panneau de commande.

Después de configurar la unidad, coloque la cubierta protectora ⑥ sobre el panel de control.

⚠ CAUTION

- Do not install in the below locations; (Unstable location, In a location that interferes with driving, In a location that gets wet, In a dusty location, In a place that gets hot, In a place that gets direct sunlight, In a location that gets hit by hot air)
- Do not install the unit under the carpet. Otherwise heat build-up occurs and the unit may be damaged.
- Install this unit in a location which allows heat to easily dissipate. Once installed, do not place any object on top of the unit.
- The surface temperature of the amplifier will become hot during use. Install the amplifier in a place where people, resins, and other substances that are sensitive to heat will not come into contact with it.
- When making a hole under a seat, inside the trunk, or somewhere else in the vehicle, check that there is nothing hazardous on the opposite side such as a gasoline tank, brake pipe, or wiring harness, and be careful not to cause scratches or other damage.
- Do not install near the dashboard, rear tray, or air bag safety parts.
- The installation to the vehicle should securely fasten the unit to a place in which it will not obstruct driving. If the unit comes off due to a shock and hits a person or safety part, it may cause injury or an accident.
- After installing the unit, check to make sure that electrical equipment such as the brake lamps, turn signal lamps and windshield wipers operate normally.

■ Installation procedure

Read the instruction manual well to select the proper connection and setting.

1. Remove the ignition key and disconnect the negative ⊖ terminal of the battery to prevent short circuits.

2. There are two options:

* Refer to "Connection" as below.

Type A: RCA INPUT connection

- A-1** Connect the battery wire.
- A-2** Connect the ground wire to chassis ground of vehicle.
- A-3** Connect the power control wire.
- A-4** Connect the speakers.
- A-5** Connect the DC cable into the connector at KAC-M1814.
- A-6** Connect the RCA cable.

Type B: SPEAKER INPUT connection

- B-1** Connect the battery wire.
- B-2** Connect the ground wire to chassis ground of vehicle.
- B-3** Connect the speakers.
- B-4** Connect the DC cable into the connector at KAC-M1814.
- B-5** Cut off the RCA cable, then connect the correct corresponding speaker output from the FACTORY INSTALLED HEAD UNIT directly.

3. Attach the unit.

4. Connect the negative ⊖ terminal of the battery.

Connection / Raccordements / Conexiones

- ⚠ WARNING**

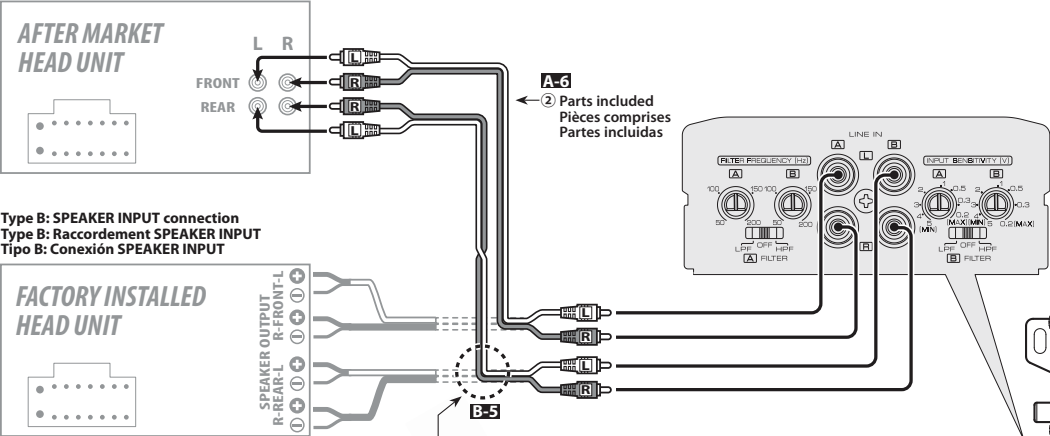
Remove the ignition key and disconnect the negative $\ominus$ terminal of the battery to prevent short circuits.
- ⚠ AVERTISSEMENT**

Retirer la clé de contact et débrancher la borne négative $\ominus$ de la batterie pour éviter les court-circuits.
- ⚠ ADVERTENCIA**

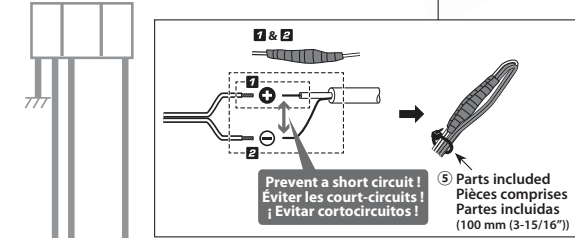
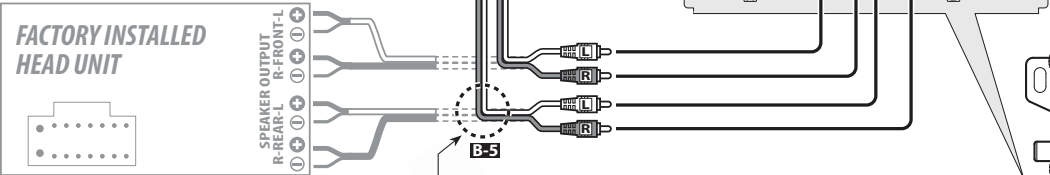
Retire la llave de encendido y desconecte el terminal negativo $\ominus$ de la batería para evitar cortocircuitos.

In a computer-equipped vehicle, when you remove the $\ominus$ terminal of the battery, the memory may disappear, or a defect may occur in the electrical system of the vehicle. Consult your dealer for further details.
Dans un véhicule équipé d'un ordinateur, lorsque vous retirez la borne $\ominus$ de la batterie, la mémoire peut disparaître ou un défaut peut se produire dans le système électrique du véhicule. Consultez votre revendeur pour de plus amples détails.
En un vehículo equipado con ordenador, cuando extrae el terminal $\ominus$ de la batería, la memoria puede desaparecer o puede producirse un defecto en el sistema eléctrico del vehículo. Consulte a su proveedor para obtener más detalles.

Type A: RCA INPUT connection
Type A: Raccordement RCA INPUT
Tipo A: Conexión RCA INPUT



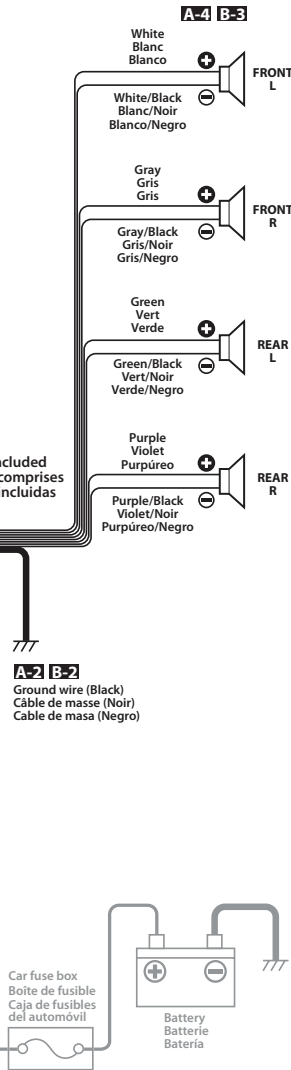
Type B: SPEAKER INPUT connection
Type B: Raccordement SPEAKER INPUT
Tipo B: Conexión SPEAKER INPUT



* 1
The output from the FACTORY INSTALLED HEAD UNIT up to 50 W can be input. The power is turned on and off as the unit detects input signal (SIGNAL SENSING TURN-ON). Therefore it is not necessary to connect the power control wire.
La puissance de sortie maximum de la FACTORY INSTALLED HEAD UNIT ne doit pas dépasser 50 W. L'alimentation est activée et désactivée lorsque l'appareil détecte le signal d'entrée (SIGNAL SENSING TURN-ON). C'est pourquoi il n'est pas nécessaire de connecter le câble de commande de l'alimentation.
El FACTORY INSTALLED HEAD UNIT deberá tener una potencia de salida máxima no superior a 50 W. La alimentación se enciende y apaga conforme la unidad detecte una señal de entrada (SIGNAL SENSING TURN-ON). Por lo tanto no es necesario conectar el cable de control de alimentación.

Fuse (15 A)
NOTE
If you can't find the specified capacity fuse at your store etc, consult your KENWOOD dealer.
Fusible (15 A)
REMARQUE
Si vous ne trouvez pas de fusible de calibre adéquat dans le commerce, etc., contactez votre agent KENWOOD.

Fusible (15 A)
NOTA
Si no puede encontrar el fusible de la capacidad especificada en su almacén etc., consulte su distribuidor KENWOOD.



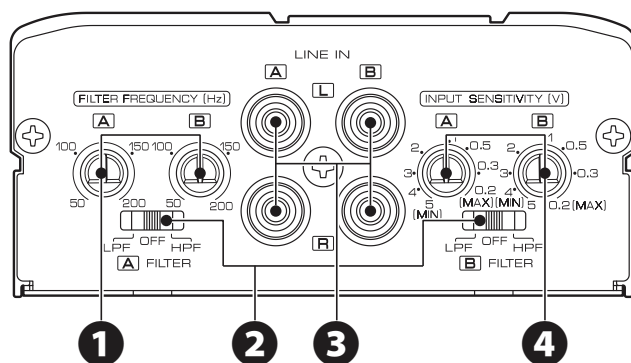
- ⚠ WARNING**

Particular attention must be given to making good electrical contact at the amplifier-output and speaker terminals.
Poor or loose connections can cause sparking or burning at the terminals because of the very high power that the amplifier can deliver.
- ⚠ CAUTION**

 - If sound is not output normally, immediately turn power off and check connections.
 - Be sure to turn the power off before changing the setting of any switch.
 - If the fuse blows, check wires for shorts, then replace the fuse with one of the same rating.
 - Check that no unconnected wires or connectors are touching the car body. Do not remove caps from unconnected wires or connectors to prevent short circuits.
 - Connect the speaker wires to appropriate speaker connectors separately. Sharing the negative wire of the speaker or grounding speaker wires to the metal body of the car can cause this unit to fail.
 - After installation, check that the brake lamps, turn signal lamps and windshield wipers work properly.
- ⚠ AVERTISSEMENT**

Veillez à ce que le contact électrique à la sortie de l'amplificateur et aux prises des enceintes soit bien établi.
Un mauvais branchement ou un branchement lâche peut causer des étincelles ou un réchauffement des prises dû fait de la très grande puissance de l'amplificateur.
- ⚠ ATTENTION**

 - En cas d'anomalie, mettre immédiatement l'appareil hors tension et vérifier tous les raccordements.
 - Veiller à mettre l'appareil hors tension avant de changer la position des commutateurs.
 - Si le fusible saute, vérifier si les câbles ne sont pas court-circuités, et remplacer le fusible par un autre fusible de même capacité nominale.
 - Vérifier qu'aucun câble ou connecteur non raccordé ne touche la carrosserie de la voiture. Ne pas retirer les capuchons des câbles ou connecteurs non raccordés afin d'éviter tout court-circuit.
 - Raccorder séparément les câbles de haut-parleur aux connecteurs de haut-parleur appropriés. La mise en commun du câble négatif d'un haut-parleur ou des fils de masse des haut-parleurs à la carrosserie métallique de la voiture pourrait rendre l'appareil inopérant.
 - Après l'installation, vérifier que les voyants de frein, les clignotants et les essuie-glace fonctionnent correctement.



This is a 4 channel amplifier including 2 stereo amplifiers in a body. One amplifier is referred to as amplifier A and the other is amplifier B. This unit is compatible with a large variety of systems by combining the switches and functions described in the following.

① FILTER FREQUENCY control (A.ch / B.ch)

Sets the cutoff frequency when the "FILTER" switch is set to "HPF" or "LPF".

② FILTER switch (A.ch / B.ch)

This switch allows to apply high-pass or low-pass filtering to the speaker outputs.

• HPF (High-Pass Filter) position:

The filter outputs the band of higher frequencies than the frequency set with the "FILTER FREQUENCY" control.

• OFF position:

The entire bandwidth is output without filtering.

• LPF (Low-Pass Filter) position:

The filter outputs the band of lower frequencies than the frequency set with the "FILTER FREQUENCY" control.

③ LINE IN terminal (A.ch / B.ch)

④ INPUT SENSITIVITY control (A.ch / B.ch)

Set this control according to the pre-output level of the HEAD UNIT connected with this unit.

NOTE

For the pre-output level, refer to the "Specifications" in the instruction manual of the HEAD UNIT.

Ceci est un amplificateur à 4 canaux avec deux amplificateurs stéréophoniques en un élément; l'un appelé Amplificateur A, l'autre Amplificateur B. Cet appareil est compatible avec diverses configurations de chaîne, simplement en sélectionnant les positions des commutateurs et les fonctions comme indiqué ci-après.

① Commande FILTER FREQUENCY (A.ch / B.ch)

Cette commande permet de préciser la fréquence de coupure quand le commutateur «FILTER» est sur la position «HPF» ou «LPF».

② Commutateur FILTER (A.ch / B.ch)

Ce commutateur permet d'effectuer un filtrage des graves, ou des aigus, appliqués vers les haut-parleurs.

• Position HPF (Filtre passe-haut):

Le filtre laisse passer les fréquences supérieures à la fréquence précisée au moyen de la commande «FILTER FREQUENCY».

• Position OFF:

Le filtre n'agit pas, autrement dit tout le spectre des fréquences est présent en sortie.

• Position LPF (Filtre passe-bas):

Le filtre laisse passer les fréquences inférieures à la fréquence précisée au moyen de la commande «FILTER FREQUENCY».

③ Borne LINE IN (entrée de ligne) (A.ch / B.ch)

④ Commande INPUT SENSITIVITY (sensibilité d'entrée) (A.ch / B.ch)

Régler cette commande selon le niveau de pré-sortie de la HEAD UNIT branché à cet amplificateur.

REMARQUE

Se référer à la section «Spécifications» du manuel des instructions de la HEAD UNIT à propos du niveau de pré-sortie.

Este es un amplificador de 4 canales con dos amplificadores estéreo en un mismo cuerpo. Uno de los amplificadores recibe el nombre amplificador A y el otro el de amplificador B. Combinando los conmutadores y las funciones descritas a continuación, esta unidad amplificadora es compatible con una amplia gama de sistemas.

① Control FILTER FREQUENCY (A.ch / B.ch)

Ajusta la frecuencia de corte cuando el conmutador "FILTER" está en "HPF" o "LPF".

② Conmutador FILTER (A.ch / B.ch)

Este conmutador permite aplicar la filtración de paso alto o paso bajo a las salidas de los altavoces.

• Posición HPF (filtro de paso alto):

El filtro da salida a la banda de frecuencias más altas que la frecuencia ajustada con el control "FILTER FREQUENCY".

• Posición OFF:

Todo el ancho de banda sale sin filtración.

• Posición LPF (filtro de paso bajo):

El filtro da salida a la banda de frecuencias más bajas que la frecuencia ajustada con el control "FILTER FREQUENCY".

③ Terminal LINE IN (entrada de línea) (A.ch / B.ch)

④ Control INPUT SENSITIVITY (sensibilidad de entrada) (A.ch / B.ch)

Ajustar este control de acuerdo con el nivel de pre-salida de la HEAD UNIT conectada a este amplificador.

NOTA

Referir a "Especificaciones" del manual de instrucciones de la HEAD UNIT con respecto al nivel de pre-salida.

KEENVOOD

Warranty Card

Identification du produit
Modelo do aparelho e numero de série
Model number & serial number

Revendeur & cachet
Nome da loja e carimbo
Dealer & stamp

Date d'achat
Data da compra
Purchase date

Nom & adresse du client
Nome e endereço do cliente
Name & address of customer

Attention:

This card and receipt (or invoice) are necessary to purchase a new panel in case of theft or damage.

Attention:

Vous aurez besoin de cette carte et du reçu (ou de la facture) pour acheter un nouveau panneau en cas de vol ou d'endommagement.

Atenção:

Em caso de dano ou perda do painel frontal, este Certificado de Garantia e a Nota Fiscal de compra serão requisitados para a aquisição de um novo painel.

U.S.A.

KENWOOD USA CORPORATION

This warranty will be honored only in the U.S.A.

KENWOOD LIMITED WARRANTY FOR CAR STEREO COMPONENTS

HOW LONG IS THE WARRANTY

Kenwood U.S.A. Corporation ("Kenwood") warrants this product for a period of one (1) year from the date of original purchase.

WHAT IS COVERED AND WHAT IS NOT COVERED

Except as specified below, this warranty covers all defects in material and workmanship in Kenwood car stereo components. The following are not covered by the warranty:

1. Any product which is not distributed in the U.S.A. by Kenwood or which is not purchased in the U.S.A. from an authorized Kenwood car stereo dealer or an automobile dealer, unless the product is purchased through the U.S.A. Military Exchange Service.
2. Any product on which the serial number has been defaced, modified or removed.
3. Damage, deterioration or malfunction resulting from:
 - a. Any shipment of the product (claims must be presented to the carrier).
 - b. Installation or removal of the product.
 - c. Accident, acts of nature, misuse, abuse, neglect, unauthorized product modification or failure to follow instructions supplied with the product.
 - d. Repair or attempted repair by anyone not authorized by Kenwood.
 - e. Any other cause which does not relate to a product defect.

WHO IS PROTECTED

This warranty is enforceable only by the original purchaser.

WHAT WE WILL PAY FOR

We will pay for all labor and material expenses for covered items. Payment of shipping charges is discussed in the next section of this warranty.

HOW TO OBTAIN WARRANTY SERVICE

If your KENWOOD product ever needs service:

1. Take or ship it to any KENWOOD Authorized Service Center in the U.S.A. along with & complete description of the problem. (if you are uncertain as to whether a Service Center is authorized, please call 1-800-KENWOOD for the nearest Service Center. 1-800-536-9663).
2. Although you must pay any shipping charges if it is necessary to ship the product for warranty service, we will pay the return shipping charges if the repairs are covered by the warranty within the United States.
3. Whenever your units are taken or sent for warranty service, you must include a copy of the original dated sales receipt as proof of warranty coverage.

LIMITATION OF IMPLIED WARRANTIES

ALL IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE LENGTH OF THIS WARRANTY.

EXCLUSION OF DAMAGES

KENWOOD'S LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE PRODUCT AT OUR OPTION. KENWOOD SHALL NOT BE LIABLE FOR:

1. INSTALLATION OR REMOVAL CHARGES, DAMAGE TO OTHER PROPERTY CAUSED BY ANY DEFECTS IN KENWOOD CAR STEREO COMPONENTS, DAMAGES BASED UPON INCONVENIENCE, LOSS OF USE OF THE PRODUCT; OR
2. ANY OTHER DAMAGES, WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

If a problem develops during or after the Limited Warranty Period, or if you have any questions regarding the operation of the product, you should contact your KENWOOD Authorized Dealer or Authorized Service Center. If the problem or your question is not handled to your satisfaction, please contact our Customer Relations Department at the address listed below:

KENWOOD USA CORPORATION
P.O. Box 22745, 2201 East Dominguez
Street, Long Beach, CA 90801-5745
Tel: (310) 639-5300

MILITARY

Units purchased through the U.S.A. military exchange service overseas may be serviced under warranty in the continental U.S.A., subject to the following conditions.

- 1) The original warranty is in effect.
- 2) Proof of purchase is provided to the servicer.

WARRANTY FOR MILITARY MARKET

Kenwood corporation is proud of the quality and workmanship of its audio equipment. This unit has been properly designed, tested and inspected before it was shipped to you. If properly installed and operated in accordance with instructions furnished, it should give you an optimum reliable performance.

WARRANTY PERIOD

This product is warranted for a period of (1) year from the date of the original purchase.

SCOPE OF WARRANTY

Except as specified below, this warranty covers all defects in materials and workmanship of the Kenwood brand products.

During the warranty period, any authorized Kenwood Service Center in the military market listed in the back of this warranty card will provide you free-of-charge both parts and labor required to correct any defect in materials or workmanship.

The following are not covered by this warranty.

1. Voltage conversions.
2. Periodic check-ups which do not disclose any defect covered by the warranty.
3. Cabinets, grilles, other exterior finishes, belts, tape heads, and other non-durable parts and accessories.
4. Units on which the serial number has been effaced, modified or removed.
5. Installation and/or removal charges.
6. Damaged magnetic tapes.
7. House call charges for any repairs.
8. Shipping or delivery charges to or from an authorized Kenwood Service Center.
9. This warranty will not cover any failure that is due to any of the following conditions in accordance with the visual inspection of the authorized Kenwood Service Center:
 - * Improper maintenance or repair, including the installation of parts or accessories that do not conform to the quality and specifications of the original parts.
 - * Misuse, abuse, neglect, unauthorized product modification or failure to follow instructions contained in the Owner's Manual.
 - * Accidental or intentional damages.
 - * Repairs or attempted repairs by an unauthorized agency. (All repairs must be performed at an authorized Kenwood Service Center.)
 - * Damages or deteriorations caused during shipment (Claims must be presented to the carrier).
 - * Damages or deteriorations resulting from removal and/or replacement.

PURCHASER'S RESPONSIBILITIES

As the purchaser of a new Kenwood brand product, you are requested to do the following in order to obtain Kenwood warranty service.

1. Retain your sales slip or other evidence of purchase for proving your eligibility for requesting Kenwood warranty service.
2. Make your unit available to an authorized Kenwood Service Center in the military market for inspection and approved warranty service, or ship your unit in its original carton box or equivalent, fully insured and shipping charges prepaid, to the authorized Kenwood Service Center.

LIMITATION OF IMPLIED WARRANTIES

Any and all implied warranties, including warranties of merchantability and fitness for a particular purpose, shall be limited in duration to the length of this warranty.

EXCLUSION OF CERTAIN DAMAGES

KENWOOD's liability for any defective product is limited to the repair or replacement of said product, at our option, and shall not include damages of any kind, whether incidental, consequential or otherwise, except to the extent prohibited by applicable law.

KENWOOD AUTHORIZED SERVICE CENTERS IN MILITARY MARKET

JAPAN:

Yokota

Kenwood Rep.,; c/o
Yokota BX, JAAX AAFES-PAC,
APO San Francisco 96328

Zama

Kenwood Rep.,; c/o
Zama PX, JAAX AAFES-PAC,
APO San Francisco 96343

Misawa

Kenwood Rep.,; c/o
Misawa BX, JAAX AAFES-PAC,
APO San Francisco 96519

Yokosuka

Kenwood Rep.,; c/o
A-33, Yokosuka NEX No. 260-010
FPO Seattle 98760

Atsugi

Kenwood Rep.,; c/o
Atsugi NEX No. 260-020 FPO Seattle
98767

Iwakuni

Kenwood Rep.,; c/o
Marine Corps Exchange, Marine Corps
Air Station,
FPO Seattle 98764

Sasebo

Sasebo NEX;
Navy Exchange 260-040
F.A. Box 115 FPO Seattle 98766

Okinawa

Kenwood Rep.,; c/o
OWAX, AAFES-PAC, APO San Francisco
96230

KOREA:

Kenwood Rep.,; c/o
KOAX Repair Shop, AAFES-PAC
DD-Camp Market, APO San Francisco
96488

GUAM:

Kenwood Rep.,; c/o
Guam NEX No. 230-010,
FPO San Francisco 96630
Kenwood Rep.,; c/o
GUAX, AAFES-PAC, APO San Francisco
96334

U.S.A.:

Hawaii

Kenwood Factory Service
99-994 Iwaena St., Aiea, Hawaii 96701

Alaska

Vista Radio TV;
861 East Loop Road, Anchorage, Alaska
99501
Anchorage Commercial Electronics, Inc.;
1450 East 9th Ave., Anchorage, Alaska
99501

In The Continental U.S.A.

For Nearest Authorized Service Center;
Tel: 1-800-536-9663

Kenwood Service U.S.A.

Kenwood Factory Service;
P.O. Box 22745, 2201 East Dominguez
Street,
Long Beach, California 90801-5745
Tel: (310) 639-5300

EUROPE:

Please inquire at the military resale
outlets where you bought your Kenwood
products, or
KENWOOD ELECTRONICS
DEUTSCHLAND GMBH:
Rembrücker-Str. 15, 63150 Heusenstamm,
Germany
Tel.: 49-06104-69010

Dear Customer,

Thank you for purchasing this Kenwood product. As mentioned in the pages of this booklet, our warranty is only valid in the countries listed. If your country is not listed please contact your retailer for information on warranty procedure, or write to:

JVC KENWOOD Customer Information Center

3-12, Moriyacho, Kanagawa-ku, Yokohama-shi, Kanagawa 221-0022, Japan