

FOR CAR USE ONLY/POUR APPLICATION AUTOMOBILE UNIQUEMENT/PARA USO EN AUTOMÓVILES

# ALPINE

## MRV-M250 MONO POWER AMPLIFIER

- OWNER'S MANUAL  
Please read this manual to maximize your enjoyment of the outstanding performance and feature capabilities of the equipment, then retain the manual for future reference.
- MODE D'EMPLOI  
Veuillez lire ce mode d'emploi pour tirer pleinement profit des excellentes performances et fonctions de cet appareil, et conservez-le pour toute référence future.
- MANUAL DE OPERACION  
Lea este manual, por favor, para disfrutar al máximo de las excepcionales prestaciones y posibilidades funcionales que ofrece el equipo. Luego guarde el manual para usarlo como referencia en el futuro.

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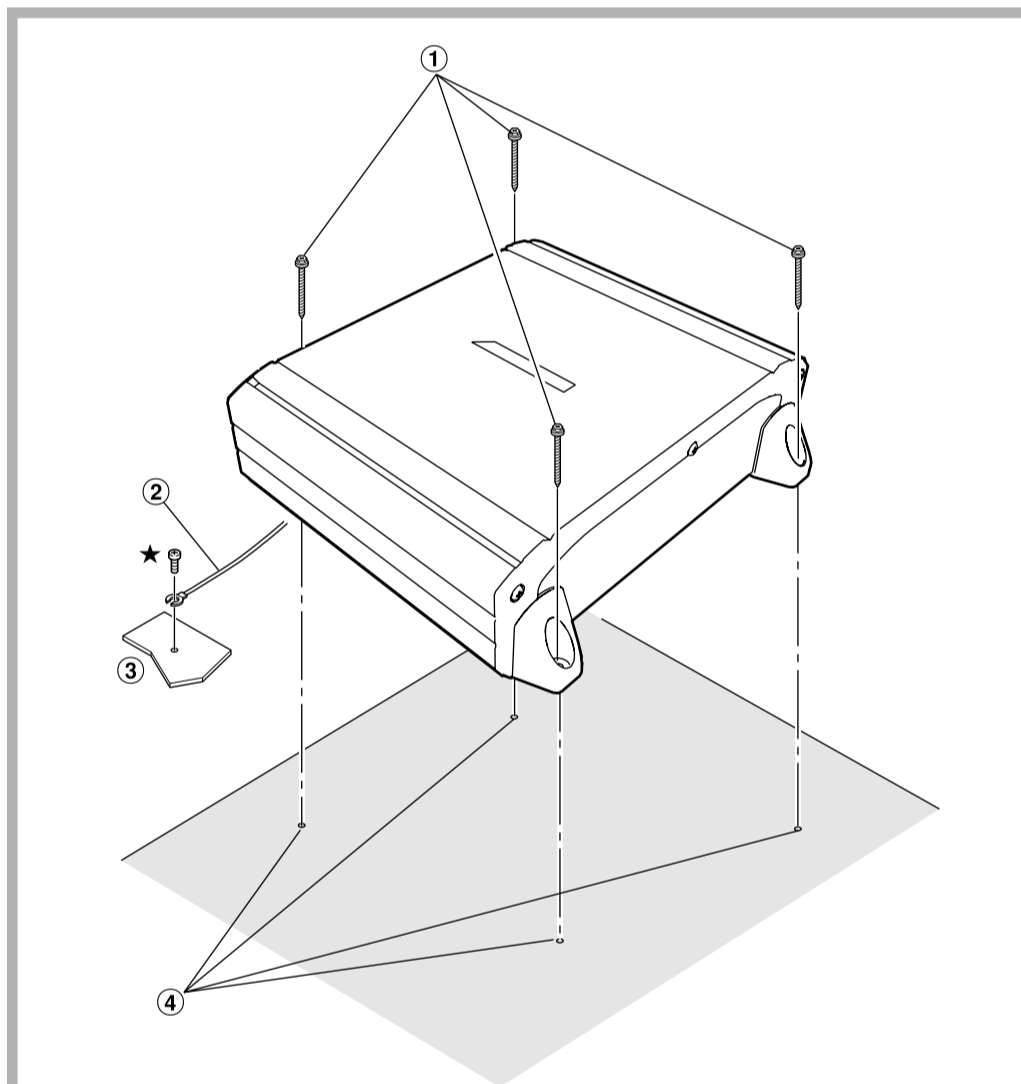
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- Self-Tapping Screws (M4 x 20) / Vis auto-taraudées/Tornillos autorroscantes
- Ground Lead/ Conducteur de mise à la terre/ Cable de tierra
- Chassis/ Châssis/ Chasis
- Holes/ Trous/ Agujeros

Fig. 1

## ENGLISH

### Introduction:

Please read this OWNER'S MANUAL thoroughly to familiarize yourself with each control and function. We at ALPINE hope that your new MRV-M250 will give you many years of listening enjoyment. In case of problems with installation of your MRV-M250, please contact your authorized ALPINE dealer. **CAUTION: These controls are for tuning your system. Please consult your authorized Dealer for adjustment.**

	<b>WARNING</b>	This symbol means important instructions. Failure to heed them can result in serious injury or death.
	<b>CAUTION</b>	This symbol means important instructions. Failure to heed them can result in injury or property damages.

### WARNING

- DO NOT OPERATE ANY FUNCTION THAT TAKES YOUR ATTENTION AWAY FROM SAFELY DRIVING YOUR VEHICLE.** Any function that requires your prolonged attention should only be performed after coming to a complete stop. Always stop the vehicle in a safe location before performing these functions. Failure to do so may result in an accident.
- KEEP THE VOLUME AT A LEVEL WHERE YOU CAN STILL HEAR OUTSIDE NOISES WHILE DRIVING.** Excessive volume levels that obscure sounds such as emergency vehicle sirens or road warning signals (train crossings, etc.) can be dangerous and may result in an accident. LISTENING AT LOUD VOLUME LEVELS IN A CAR MAY ALSO CAUSE HEARING DAMAGE.
- DO NOT DISASSEMBLE OR ALTER.** Doing so may result in an accident, fire or electric shock.
- USE THIS PRODUCT FOR MOBILE 12V APPLICATIONS.** Use for other than its designed application may result in fire, electric shock or other injury.
- USE THE CORRECT AMPERE RATING WHEN REPLACING FUSES.** Failure to do so may result in fire or electric shock.
- DO NOT BLOCK VENTS OR RADIATOR PANELS.** Doing so may cause heat to build up inside and may result in fire.
- MAKE THE CORRECT CONNECTIONS.** Failure to make the proper connections may result in fire or product damage.
- USE ONLY IN CARS WITH A 12 VOLT NEGATIVE GROUND.** (Check with your dealer if you are not sure.) Failure to do so may result in fire, etc.
- BEFORE WIRING, DISCONNECT THE CABLE FROM THE NEGATIVE BATTERY TERMINAL.** Failure to do so may result in electric shock or injury due to electrical shorts.
- DO NOT ALLOW CABLES TO BECOME ENTANGLED IN SURROUNDING OBJECTS.** Arrange wiring and cables in compliance with the manual to prevent obstructions when driving. Cables or wiring that obstruct or hang up on places such as the steering wheel, gear lever, brake pedals, etc., can be extremely hazardous.
- DO NOT SPlice INTO ELECTRICAL CABLES.** Never cut away cable insulation to supply power to other equipment. Doing so will exceed the current carrying capacity of the wire and result in fire or electric shock.
- DO NOT DAMAGE PIPE OR WIRING WHEN DRILLING HOLES.** When drilling holes in the chassis for installation, take precautions so as not to contact, damage or obstruct pipes, fuel lines, tanks or electrical wiring. Failure to take such precautions may result in fire.
- DO NOT USE BOLTS OR NUTS IN THE BRAKE OR STEERING SYSTEMS TO MAKE GROUND CONNECTIONS.** Bolts or nuts used for the brake or steering systems (or any other safety-related system), or tanks should NEVER be used for installations or ground connections. Using such parts could disable control of the vehicle and cause fire etc.
- KEEP SMALL OBJECTS SUCH AS BOLTS OR SCREWS OUT OF THE REACH OF CHILDREN.** Swallowing them may result in serious injury. If swallowed, consult a physician immediately.

### CAUTION

- HALT USE IMMEDIATELY IF A PROBLEM APPEARS.** Failure to do so may cause personal injury or damage to the product. Return it to your authorized Alpine dealer or the nearest Alpine Service Center for repairing.
- HAVE THE WIRING AND INSTALLATION DONE BY EXPERTS.** The wiring and installation of this unit requires special technical skill and experience. To ensure safety, always contact the dealer where you purchased this product to have the work done.
- USE SPECIFIED ACCESSORY PARTS AND INSTALL THEM SECURELY.** Be sure to use only the specified accessory parts. Use of other than designated parts may damage this unit internally or may not securely install the unit in place. This may cause parts to become loose resulting in hazards or product failure.
- ARRANGE THE WIRING SO IT IS NOT CRIMPED OR PINCHED BY A SHARP METAL EDGE.** Route the cables and wiring away from moving parts (like the seat rails) or sharp or pointed edges. This will prevent crimping and damage to the wiring. If wiring passes through a hole in metal, use a rubber grommet to prevent the wire's insulation from being cut by the metal edge of the hole.
- DO NOT INSTALL IN LOCATIONS WITH HIGH MOISTURE OR DUST.** Avoid installing the unit in locations with high incidence of moisture or dust. Moisture or dust that penetrates into this unit may result in product failure.

## SERVICE CARE

### ◆ IMPORTANT NOTICE

This Amplifier has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart of Part 15 of FCC Rules. This equipment generates and uses radio frequency energy, and it must be installed and used properly in accordance with the manufacturer's instructions.

### ◆ For European Customers

Should you have any questions about warranty, please consult your store of purchase.

### ◆ For Customers in other Countries

### IMPORTANT NOTICE

Customers who purchase the product with which this notice is packaged, and who make this purchase in countries other than the United States of America and Canada, please contact your dealer for information regarding warranty coverage.

## SPECIFICATIONS

		MRV-M250
Performance		
Power Output	Ref: 4Ω, 14.4V Ref: 2Ω, 14.4V	150W RMS x 1 250W RMS x 1
THD+N	Ref: 10W into 4Ω Ref: 10W into 2Ω Ref: Rated Power into 4Ω Ref: Rated Power into 2Ω	<0.02% <0.03% <0.2% <0.3%
S/N Ratio	IHF A-wtd + AES-17 Ref: 1W into 4Ω IHF A-wtd + AES-17 Ref: Rated Power into 4Ω	>85dB >105dB
Frequency Response	+0/-3dB, Ref: 1W into 4Ω	7Hz-400Hz
Damping Factor	Ref: 10W into 4Ω at 100Hz	>500
Control	RCA Input Ref: Rated Power into 4Ω	0.15-4.0V
Input Sensitivity	Speaker Level Input Ref: Rated Power into 4Ω	0.4-10V
Crossover	Variable LPF (-24dB/oct.)	50Hz-400Hz
Equalizer	Variable Bass EQ (L=50Hz)	0 to +12dB
Remote Level*	Linear Attenuation *Requires optional RUX-KNOB	0 to -20dB
General		
Input Impedance		>10kΩ
Dimensions	Width Height Depth	Overall 190mm (7-1/2") 155mm (6-1/8") 55mm (2-3/16") 200mm (7-7/8")
Weight		1.5kg

**NOTE:**  
\* For product improvement, specifications and design are subject to change without notice.

## ACCESSORIES

- Speaker Input Connector.....1
- Self-Tapping Screw (M4 x 20).....4

## INSTALLATION (Fig. 1)

Due to the high power output of the MRV-M250, considerable heat is produced when the amplifier is in operation. For this reason, the amplifier should be mounted in a location which will allow for free circulation of air, such as inside the trunk. For alternate installation locations, please contact your authorized Alpine dealer.

- Using the amplifier as a template, mark the four screw locations.
- Make sure there are no objects behind the surface that may become damaged during drilling.
- Drill the screw holes.
- Position the MRV-M250 over the screw holes, and secure with four self-tapping screws.

### NOTE:

- To securely connect the ground lead, use an already installed screw on a metal part of the vehicle (marked **(\*)**) or a clean, bare metal spot on the vehicle's chassis. Be sure this is a good ground by checking continuity to the battery (-) terminal. Connect all equipment to the same ground point while keeping wire length as short as possible. These procedures will help eliminate noise.

## FRANÇAIS

### Introduction:

Prêre de lire attentivement ce MODE D'EMPLOI pour se familiariser avec chaque commande et fonction. Chez Alpine, nous espérons que le nouveau MRV-M250 donnera de nombreuses années de plaisir d'écoute. En cas de problèmes lors de l'installation du MRV-M250, prière de contacter le revendeur agréé d'ALPINE. **PRECAUTION: Ces commandes sont utilisées pour la syntonisation du système. Prière de contacter le revendeur agréé pour le réglage.**

	<b>AVERTISSEMENT</b>	Ce symbole désigne des instructions importantes. Le non-respect de ces instructions peut entraîner de graves blessures, voire la mort.
	<b>ATTENTION</b>	Ce symbole désigne des instructions importantes. Le non-respect de ces instructions peut entraîner des blessures ou des dommages matériels.

### AVERTISSEMENT

- N'ACTIVER AUCUNE FONCTION SUSCEPTIBLE DE DETOURNER VOTRE ATTENTION DE LA CONDUITE DU VEHICULE.** Les fonctions requérant une attention prolongée ne doivent être exploitées qu'à l'arrêt complet du véhicule. Toujours arrêter le véhicule à un endroit sûr avant d'activer ces fonctions. Il y a un risque de provoquer un accident.
- GARDER LE VOLUME À FAIBLE NIVEAU DE MANIÈRE À POUVOIR ENTENDRE LES BRUITS EXTERIEURS PENDANT LA CONDUITE.** Des niveaux de volume excessifs qui couvrent les sirens des ambulances ou les signaux routiers (passages à niveau, etc.) peuvent être dangereux et provoquer un accident. UN NIVEAU DE VOLUME TROP ÉLEVÉ À L'INTERIEUR DU VEHICULE PEUT ÉGALEMENT AVOIR DES EFFETS IRRÉVERSIBLES SUR VOTRE AUDITION.
- NE PAS DESASSEMBLER NI MODIFIER L'APPAREIL.** Il y a un risque d'accident, d'incendie ou de choc électrique.
- UTILISER CET APPAREIL POUR DES APPLICATIONS MOBILES DE 12 V.** Toute utilisation autre que prévue entraîne un risque d'incendie, de choc électrique ou de blessure.
- UTILISER DES FUSIBLES DE L'AMPÉRAGE APPROPRIÉ.** Il y a un risque d'incendie ou de décharge électrique.
- NE PAS OBSTRUER LES SORTIES D'AIR NI LES PANNEAUX DU RADIATEUR.** Une surchauffe interne peut se produire et provoquer un incendie.
- EFFECTUER CORRECTEMENT LES CONNEXIONS.** Il y a un risque de blessures ou de dommages à l'appareil.
- A UTILISER UNIQUEMENT SUR DES VOITURES À MASSE NEGATIVE DE 12 VOLTS.** (Vérifiez auprès de votre concessionnaire si vous n'en êtes pas certain.) Il y a un risque d'incendie, etc.
- AVANT TOUTE CONNEXION, DEBRANCHER LE CABLE DE LA BORNE NEGATIVE DE LA BATTERIE.** Il y a un risque de choc électrique ou de blessure par courts-circuits.
- NE PAS COINCER LES CABLES AVEC DES OBJETS VOISINS.** Positionner les câbles conformément au manuel de manière à éviter toute obstruction en cours de conduite. Les câbles qui obstruent ou dépassent à des endroits tels que le volant, le levier de changement de vitesses, la pédale de frein, etc., peuvent s'avérer extrêmement dangereux.
- NE PAS DENUDER LES CABLES ÉLECTRIQUES.** Ne jamais enlever la gaine isolante pour alimenter un autre appareil. Il y a un risque de dépassement de la capacité de courant et, partant, d'incendie ou de choc électrique.
- NE PAS ENDOMMAGER DE CONDUITES NI DE CABLES LORS DU FORAGE DES TROUS.** Lors du forage de trous dans le châssis en vue de l'installation, veiller à ne pas entrer en contact, endommager ni obstruer de conduites, de tuyaux à carburant ou de fils électriques. Le non-respect de cette précaution peut entraîner un incendie.
- NE PAS UTILISER DES ECROUS NI DES BOULONS DU CIRCUIT DE FREINAGE OU DE DIRECTION POUR LES CONNEXIONS DE MASSE.** Les boulons et les écrous utilisés pour les circuits de freinage et de direction (ou de tout autre système de sécurité) ou les réservoirs ne peuvent JAMAIS être utilisés pour l'installation ou la liaison à la masse. L'utilisation de ces organes peut désactiver le système de contrôle du véhicule et causer un incendie, etc.
- GARDER LES PETITS OBJETS COMME LES BOULONS OU LES VIS HORS DE PORTEE DES ENFANTS.** L'ingestion de tels objets peut entraîner de graves blessures. En cas d'ingestion, consulter immédiatement un médecin.

### ATTENTION

- INTERROMPRE TOUTE UTILISATION EN CAS DE PROBLEME.** Le non-respect de cette précaution peut entraîner des blessures ou endommager l'appareil. Retourner l'appareil auprès du distributeur Alpine agréé ou un centre de service après-vente Alpine en vue de la réparation.
- FAIRE INSTALLER LE CÂBLAGE ET L'APPAREIL PAR DES EXPERTS.** Le câblage et l'installation de cet appareil requiert des compétences techniques et de l'expérience. Pour garantir la sécurité, faire procéder à l'installation de cet appareil par le distributeur qui vous l'a vendu.
- UTILISER LES ACCESSOIRES SPECIFIÉS ET LES INSTALLER CORRECTEMENT.** Utiliser uniquement les accessoires spécifiés. L'utilisation d'autres composants que les composants spécifiés peut causer des dommages internes à cet appareil ou son installation risque de ne pas être effectuée correctement. Les pièces utilisées risquent de se desserrer et de provoquer des dommages ou une défaillance de l'appareil.
- FAIRE CHEMINER LE CÂBLAGE DE MANIÈRE À NE PAS LE COINCER CONTRE UNE ARÊTE METALLIQUE.** Faire cheminer les câbles à l'écart des pièces mobiles (comme les rails d'un siège) et des arêtes acérées ou pointues. Cela évitera ainsi de coincer et d'endommager les câbles. Si un câble passe dans un orifice métallique, utiliser un passe-cloison en caoutchouc pour éviter que la gaine isolante du câble ne soit endommagée par le bord métallique de l'orifice.
- NE PAS INSTALLER À DES ENDROITS TRES HUMIDES OU POUSSIÉREUX.** Éviter d'installer l'appareil à des endroits soumis à une forte humidité ou à de la poussière en excès. La pénétration d'humidité ou de poussière à l'intérieur de cet appareil risque de provoquer une défaillance.

## SOINS PRATIQUES

### ◆ AVIS IMPORTANT

Cet amplificateur a été testé et est conforme aux limites des dispositifs informatiques de catégorie B, conformément aux règlements du FCC, section 15, sous-section J. Ce matériel produit et utilise des hautes fréquences radio et doit être installé et utilisé conformément aux directives du fabricant.

### ◆ Pour les clients Européens

Pour plus de détails sur la garantie, consulter votre revendeur.

### ◆ Pour les clients d'autres pays

### AVIS IMPORTANT

Pour les clients qui achèteraient ce produit en dehors des pays autres que les États Unis d'Amérique et du Canada et dont cette notice est comprise dans le carton, prière de contacter votre revendeur pour plus d'informations concernant la garantie.

## SPECIFICATIONS

		MRV-M250
Performances		
Sortie de l'alimentation	Ref: 4Ω, 14.4V Ref: 2Ω, 14.4V	150W RMS x 1 250W RMS x 1
DHT+N	Ref: 10W sous 4Ω Ref: 10W sous 2Ω Ref: puissance nominale sous 4Ω Ref: puissance nominale sous 2Ω	<0.02% <0.03% <0.2% <0.3%
Rapport S/B	IHF A-wtd + AES-17 Ref: 1W sous 4Ω IHF A-wtd + AES-17 Ref: puissance nominale sous 4Ω	>85dB >105dB
Réponse de fréquence	+0/-3dB, Ref: 1W sous 4Ω	7Hz-400Hz
Facteur d'amortissement	Ref: 10W sous 4Ω à 100Hz	>500
Contrôle	Entrée RCA Ref: puissance nominale sous 4Ω	0,15-4,0V
Sensibilité d'entrée	Entrée de niveau de haut-parleur Ref: puissance nominale sous 4Ω	0,4-10V
Transfert	Filtre passe-bas variable (-24dB/oct.)	50Hz-400Hz
Égaliseur	Égaliseur de graves variables (L=50Hz)	0 à +12dB
Niveau distant*	Atténuation linéaire *RUX-KNOB en option requis	0 à -20dB
Général		
Impédance d'entrée		>10kΩ
Dimensions	Largeur Hauteur Profondeur	Ensemble 190mm (7-1/2") Dissipateur thermique uniquement 155mm (6-1/8") 55mm (2-3/16") 200mm (7-7/8")
Poids		1,5kg

### REMARQUE:

\* Afin d'améliorer ce produit, les spécifications et la conception sont sujettes à des modifications sans préavis.

## ACCESSOIRES

- Connecteur d'entrée de haut-parleur.....1
- Vis auto-taraudées (M4 x 20).....4

## INSTALLATION (Fig. 1)

En raison de la sortie de puissance élevée du MRV-M250, une forte chaleur est produite pendant le fonctionnement de l'amplificateur. Pour cette raison, l'amplificateur doit être monté dans un endroit permettant une bonne ventilation, tel que le coffre. Pour ce qui concerne les différentes positions d'installation, contacter un concessionnaire Alpine.

- Apposer l'amplificateur contre la surface d'installation pour marquer les repères des quatre vis.
- Vérifier qu'il n'y a pas d'objets derrière la surface pouvant être abîmés lorsque les trous soient percés.
- Percer les trous pour les vis.
- Positionner le MRV-M250 par dessus les trous et fixer avec les quatre vis auto-taraudées.

### REMARQUE :

- Pour raccorder correctement le fil de mise à la terre, utilisez la vis déjà fixée sur la partie métallique du véhicule (signalée **(\*)**), ou un point métallique propre. Assurez-vous que ce point est une bonne mise à la terre en vérifiant la continuité à la batterie (-). Connecter tous les équipements au même point de mise à la terre en veillant à maintenir le fil aussi court que possible. Ces procédures vous aideront à éliminer le bruit.

## ESPAÑOL

### Introducción:

A fin de familiarizarse con los controles y funciones de la unidad, lea detenidamente este MANUAL DE OPERACION. Nosotros en ALPINE esperamos que su nuevo MRV-M250 le brinde muchos años de placer auditivo. En caso de presentarse algún problema durante la instalación del MRV-M250, tome contacto con su distribuidor autorizado ALPINE. **PRECAUCION: Estos controles sirven para la sintonización de su sistema. Contacte por favor a su distribuidor autorizado para el ajuste.**

	<b>ADVERTENCIA</b>	Este símbolo indica que las instrucciones son importantes. De no tenerse en cuenta podría ocasionarse heridas graves o muerte.
	<b>PRUDENCIA</b>	Este símbolo indica que las instrucciones son importantes. De no tenerse en cuenta podría ocasionarse heridas graves o daños materiales.

### ADVERTENCIA

- NO REALICE NINGUNA OPERACION QUE PUEDA DISTRAER SU ATENCION Y COMPROMETER LA SEGURIDAD DURANTE LA CONDUCCION DEL VEHICULO.** Las operaciones que requieren su atención durante más tiempo sólo deben realizarse después de detener completamente el vehículo. Estacione el vehículo en un lugar seguro antes de realizar dichas operaciones. De lo contrario, podría ocasionar un accidente.
- MANTENGA EL VOLUMEN A UN NIVEL QUE NO LE IMPIDA ESCUCHAR LOS SONIDOS DEL EXTERIOR MIENTRAS CONDUCE.** Los niveles de volumen demasiado altos que reducen la percepción de otros sonidos como las sirenas de emergencia o posibles señales acústicas de advertencia en carretera (cruces de trenes, etc.) podrían ser peligrosos y provocar un accidente. LOS NIVELES DE VOLUMEN ALTOS EN EL VEHICULO TAMBIEN PUEDEN DAÑAR EL SISTEMA AUDITIVO DE LOS PASAJEROS.
- NO DESMONTA NI ALTERA LA UNIDAD.** Si lo hace, podrá ocasionar un accidente, un incendio o una descarga eléctrica.
- UTILICE ESTE PRODUCTO CON APLICACIONES MÓVILES DE 12 V.** Si se emplea para otra aplicación distinta de la prevista, podría producirse un incendio, una descarga eléctrica u otras lesiones.
- UTILICE EL AMPERAJE CORRECTO CUANDO CAMBIE FUSIBLES.** De lo contrario, puede producirse un incendio o una descarga eléctrica.
- NO OBSTRUYA LOS ORIFICIOS DE VENTILACION O LOS PANELES DEL RADIADOR.** Si los bloquea, el calor podría acumularse en el interior y producir un incendio.
- REALICE LAS CONEXIONES CORRECTAMENTE.** Una conexión incorrecta puede producir un incendio o dañar el equipo.
- UTILICE LA UNIDAD SOLAMENTE EN VEHICULOS QUE TENGAN 12 VOLTIOS CON NEGATIVO A MASA.** (Consulte a su distribuidor en caso de duda.) De no ser así, podría ocasionar un incendio, etc.
- ANTES DE EFECTUAR EL CABLEADO, DESCONECTE EL CABLE DEL TERMINAL NEGATIVO DE LA BATERIA.** De no hacerlo así, podría ocasionar una descarga eléctrica o heridas debido a cortocircuitos eléctricos.
- IMPIDA QUE LOS CABLES SE ENREDEN CON LOS OBJETOS SITUADOS ALREDEDOR.** Disponga la instalación eléctrica y los cables conforme a lo descrito en el manual para evitar obstáculos durante la conducción. Los cables que obstruyan la conducción o que cuelgan de partes del vehículo como el volante de dirección, la palanca de cambios, los pedales de freno, etc., se consideran extremadamente peligrosos.
- NO EMPALME CABLES ELÉCTRICOS.** Nunca corte el aislamiento de un cable para suministrar energía a otro equipo. Esto hace que la capacidad portadora del cable se supere y puede ser la causa de incendios o descargas eléctricas.
- EVITE DAÑAR LOS TUBOS Y EL CABLEADO CUANDO TALADRE AGUJEROS.** Si taladrará agujeros en el chasis durante la instalación, tome las precauciones necesarias para no rozar, dañar u obstruir los tubos, las tuberías de combustible, los depósitos o el cableado eléctrico. De lo contrario, podría provocar un incendio.
- NO UTILICE TUERCAS O PERNOS EN EL SISTEMA DE FRENOS O DE DIRECCION PARA REALIZAR LAS CONEXIONES A MASA.** Los pernos o tuercas empleados en los sistemas de freno o de dirección (o en cualquier otro sistema relacionado con la seguridad del vehículo), o los depósitos, NUNCA deben utilizarse para instalaciones de cableado o conexión a masa. Si utiliza tales partes podrá incapacitar el control del vehículo y provocar un incendio, etc.
- MANTENGA LOS OBJETOS PEQUEÑOS, COMO PERNOS Y TORNILLOS, FUERA DEL ALCANCE DE LOS NIÑOS.** La ingestión de estos objetos puede provocar lesiones graves. Si esto ocurre, consulte con un médico inmediatamente.

### PRUDENCIA

- DEJE DE USAR LA UNIDAD INMEDIATAMENTE SI APARECE ALGÚN PROBLEMA.** Su uso en estas condiciones podría ocasionar lesiones personales o daños al producto. Lleve la unidad a un distribuidor Alpine autorizado o al Centro de servicio Alpine más próximo para repararla.
- CONFÍE EL CABLEADO Y LA INSTALACION A PROFESIONALES.** El cableado y la instalación de este equipo requieren una competencia y experiencia técnica confirmada. Para garantizar la seguridad, póngase siempre en contacto con el distribuidor al que ha comprado el equipo para confirmar estas tareas.
- UTILICE LOS ACCESORIOS ESPECIFICADOS E INSTÁLELOS CORRECTAMENTE.** Asegúrese de utilizar los accesorios especificados solamente. La utilización de otras piezas no designadas puede ser la causa de daños en el interior de la unidad o de una instalación incorrecta. Las piezas pueden aflojarse, lo que, además de ser peligroso, puede provocar averías.
- DISPONGA EL CABLEADO DE FORMA QUE LOS CABLES NO SE DOBLEN, NO SE CONTRAIGAN NI ROCEN UN BORDE METÁLICO AFILADO.** Aleje los cables y el cableado de piezas móviles (como los rails de los asientos) o de bordes puntiagudos o afilados. De esta forma evitará dobleces y daños en el cableado. Si los cables se introducen por un orificio de metal, utilice una arandela de goma para evitar que el borde metálico del orificio corte el aislamiento del cable.
- NO INSTALE LA UNIDAD EN LUGARES MUY HÚMEDOS O LLENOS DE POLVO.** Evite instalar la unidad en lugares con altos índices de humedad o polvo. Si entra polvo o humedad, el equipo puede averiarse.

## CUIDADOS PRÁCTICOS

### ◆ AVISO IMPORTANTE

Este amplificador ha sido probado y es conforme con los límites de los dispositivos informáticos de categoría B, según la regulación de FCC, sección 15, subsección J. Este equipo produce y utiliza altas frecuencias radio y debe ser instalado y utilizado según las instrucciones del fabricante.

### ◆ Para los usuarios europeos

Si tuviera dudas sobre la garantía consulte, por favor, con el almacén donde haya realizado su compra.

### ◆ Para los usuarios en otros países AVISO IMPORTANTE

Los clientes que adquieran este producto fuera de Los Estados Unidos de América y Canadá y que tengan este aviso incluido en el embalaje, contacten a su distribuidor para obtener más información sobre la garantía.

## ESPECIFICACIONES

		MRV-M250
Rendimiento		
Salida de alimentación	Ref: 4Ω, 14.4V Ref: 2Ω, 14.4V	150W RMS x 1 250W RMS x 1
THD+N	Ref: 10W en 4Ω Ref: 10W en 2Ω Ref: potencia nominal en 4Ω Ref: potencia nominal en 2Ω	<0.02% <0.03% <0.2% <0.3%
Relación S/R	IHF A ponderada + AES-17 Ref: 1W en 4Ω IHF A ponderada + AES-17 Ref: potencia nominal en 4Ω	>85dB >105dB
Respuesta de frecuencia	+0/-3dB, Ref: 1W en 4Ω	7Hz-400Hz
Factor de atenuación	Ref: 10W en 4Ω a 100Hz	>500
Control	Entrada RCA Ref: potencia nominal en 4Ω	0,15-4,0V
Sensibilidad de entrada	Entrada de nivel de altavoz Ref: potencia nominal en 4Ω	0,4-10V
Crossover	Filtro variable (-24dB/oct.)	50Hz-400Hz
Equalizador	Bass EQ variable (L=50Hz)	0 a +12dB
Nivel remoto*	Atenuación lineal *Requiere RUX-KNOB opcional	0 a -20dB
Général		
Impedancia de entrada		>10kΩ
Dimensiones	Ancho Altura Profundidad	Generales Solo dissipador térmico 190mm (7-1/2") 155mm (6-1/8") 55mm (2-3/16") 200mm (7-7/8")
Peso		1,5kg

### NOTE:

\* Con el propósito de introducir mejoras, las especificaciones y el diseño del producto están sujetos a cambios sin previo aviso.

## ACCESORIOS

- Conector de entrada del altavoz.....1
- Tornillo autorroscante (M4 x 20).....4

## INSTALACION (Fig. 1)

Debido a la salida de alta potencia del MRV-M250, se produce un calor considerable cuando el amplificador está en funcionamiento. Por esta razón, el amplificador deberá montarse en una ubicación que permita la libre circulación de aire, como por ejemplo dentro del maletero. Para ubicaciones de instalación alternativas, ver favor contacte a su distribuidor de Alpine autorizado.

- Utilizando el amplificador como plantilla, marque la ubicación de los cuatro tornillos.
- Asegúrese de que no hay objetos abajo la superficie que pueda verse dañado durante la

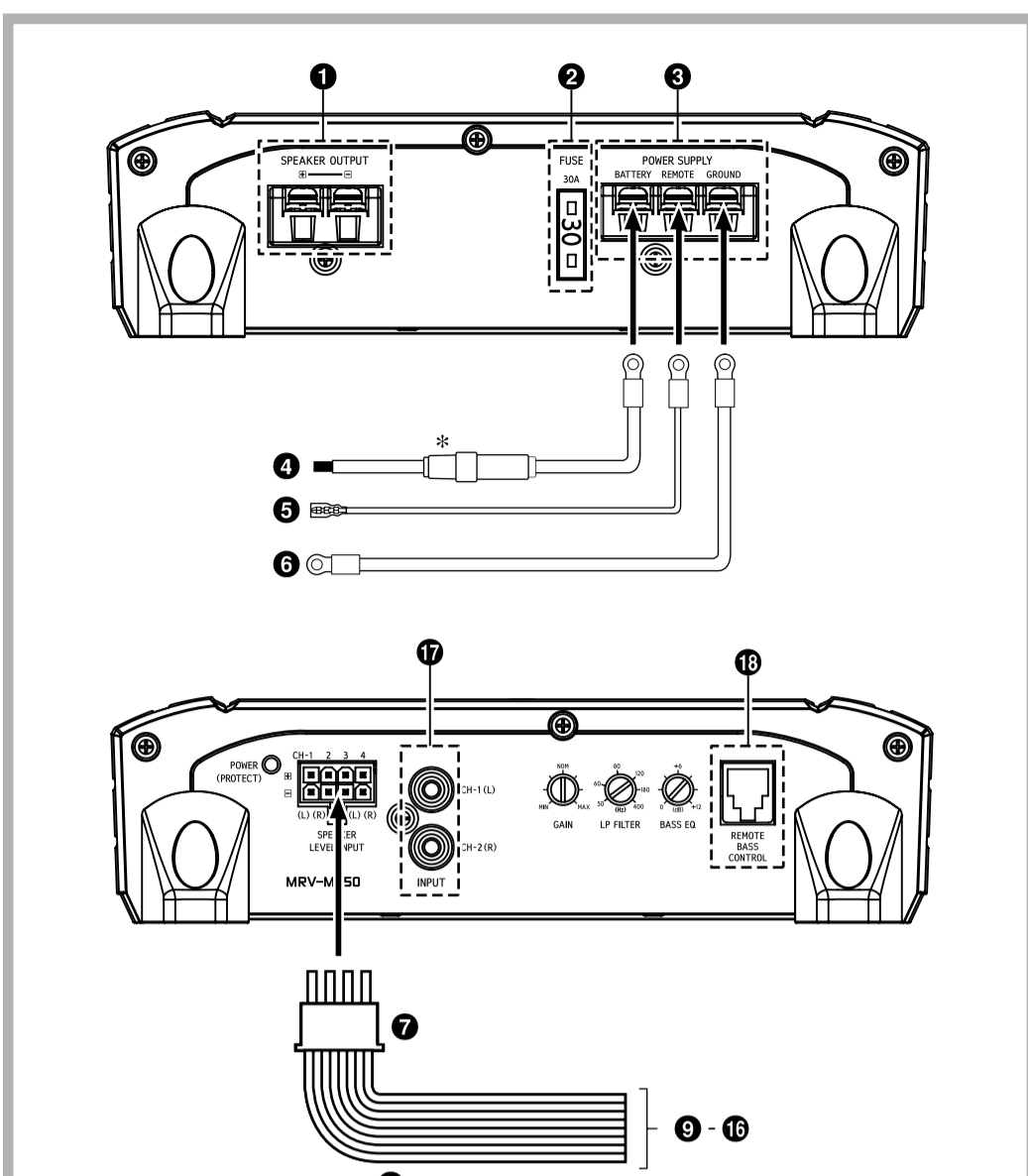


Fig. 2

\* Be sure to add an in-line fuse with the battery lead as close as possible to the battery's positive (+) terminal.  
 \* Veillez à ajouter un fusible en ligne au fil de la batterie aussi près que possible de la borne positive (+) de la batterie.  
 \* No olvidé añadir un fusible en línea con el cable de la batería tan cerca como sea posible del terminal positivo (+) de la batería.

**CONNECTIONS (Fig. 2 - Fig. 3)**

Before making connections, be sure to turn the power off to all audio components. Connect the battery lead from the amp directly to the positive (+) terminal of the vehicle's battery with appropriate in-line vehicle fuse (see Battery Lead section). Do not connect this lead to the vehicle's fuse block.  
 To prevent external noise from entering the audio system:  
 • Locate the unit and route the leads at least 10 cm (3-15/16") away from the car harness.  
 • Keep the battery power leads as far away from other leads as possible.  
 • Connect the ground lead securely to a bare metal spot (remove any paint or grease if necessary) of the car chassis.  
 • If you add an optional noise suppressor, connect it as far away from the unit as possible. Your Alpine dealer carries various noise suppressors, contact them for further information.  
 • Your Alpine dealer knows best about noise prevention measures so consult your dealer for further information.

**Speaker Output Terminals**  
 The MRV-M250 has one set of speaker outputs. Be sure to observe correct speaker output connections and polarity in relation to the other speakers in the system. Connect the positive output to the positive speaker terminal and the negative to negative. Do not connect the speaker (-) terminal to the vehicle's chassis.  
**NOTES:**  
 • Do not connect speaker leads together or to chassis ground.  
 • The input is stereo but the output is monaural.  
 • Reversing subwoofer polarity may be desirable in some installations for optimum bass performance.

**Fuse: 30A**  
 USE THE CORRECT AMPERE RATING WHEN REPLACING FUSES. Failure to do so may result in fire or electric shock.  
**Power Supply Terminal**  
**Battery Lead (Sold Separately)**  
 Be sure to add an in-line fuse with the battery lead as close as possible to the battery's positive (+) terminal. This fuse will protect your vehicle's electrical system in case of a short circuit. Consult the table below for appropriate fuse value and minimum wire gauge requirement.  
 • 30 amp fuse, 8AWG/3mm<sup>2</sup>  
**Remote Turn-On Lead (Sold Separately)**  
 Connect this lead to the remote turn-on (positive trigger, +) 12V only output of your head unit. If a remote turn-on lead is not available, see "Connection Checklist (Fig. 5)" for alternative method.  
**NOTE:**  
 • If using speaker input level signal from the head unit, remote turn-on lead connection is not necessary due to automatic signal detection.

**Ground Lead (Sold Separately)**  
 Connect this lead securely to a clean, bare metal spot on the vehicle's chassis. Verify this point to be a true ground by checking for continuity between this point and the negative (-) terminal of the vehicle's battery. Ground all your audio components to the same point on the chassis to prevent ground loops while keeping wire length as short as possible.  
 Minimum required wire gauge for this connection is as follows:  
 • 8AWG/3mm<sup>2</sup>

**RCA Input Jacks**  
 Connect these jacks to the line out leads on your head unit using RCA extension cables (sold separately). Be sure to observe correct channel connections: Left to Left and Right to Right.  
**NOTE:**  
 • Use either RCA line level or speaker level inputs. Do not connect both at the same time.  
**Remote Bass Control (Option)**  
 Connect the Remote Bass Control Unit (sold separately) to adjust the output level remotely. This is not to replace appropriate gain level setting between the amplifier and head unit.

**About Power supply wires (Fig. 3)**  
**CAUTION**  
 If the length of the power and ground cables exceed 1m, or if you connect more than one amplifier, a distribution block should be used. See below for wire gauge recommendations for distribution block connection to battery and ground (depends upon wire length necessary).  
 • 4AWG(21mm<sup>2</sup>) or 2AWG(33mm<sup>2</sup>)  
 Ensure that you install a correctly-rated in-line fuse on the power cable near this battery positive post.

**Speaker Level Input Connector**  
 These input leads are for use with head units not equipped with preamp outputs. When not using the RCA Line Input connectors, you should connect these wires to the speaker output leads of your head unit. The MRV-M250 accepts input from high power or standard power head units.  
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**Power Supply Terminal**  
**Battery Lead (Sold Separately)**  
 Be sure to add an in-line fuse with the battery lead as close as possible to the battery's positive (+) terminal. This fuse will protect your vehicle's electrical system in case of a short circuit. Consult the table below for appropriate fuse value and minimum wire gauge requirement.  
 • 30 amp fuse, 8AWG/3mm<sup>2</sup>  
**Remote Turn-On Lead (Sold Separately)**  
 Connect this lead to the remote turn-on (positive trigger, +) 12V only output of your head unit. If a remote turn-on lead is not available, see "Connection Checklist (Fig. 5)" for alternative method.  
**NOTE:**  
 • If using speaker input level signal from the head unit, remote turn-on lead connection is not necessary due to automatic signal detection.

**Ground Lead (Sold Separately)**  
 Connect this lead securely to a clean, bare metal spot on the vehicle's chassis. Verify this point to be a true ground by checking for continuity between this point and the negative (-) terminal of the vehicle's battery. Ground all your audio components to the same point on the chassis to prevent ground loops while keeping wire length as short as possible.  
 Minimum required wire gauge for this connection is as follows:  
 • 8AWG/3mm<sup>2</sup>

**RCA Input Jacks**  
 Connect these jacks to the line out leads on your head unit using RCA extension cables (sold separately). Be sure to observe correct channel connections: Left to Left and Right to Right.  
**NOTE:**  
 • Use either RCA line level or speaker level inputs. Do not connect both at the same time.  
**Remote Bass Control (Option)**  
 Connect the Remote Bass Control Unit (sold separately) to adjust the output level remotely. This is not to replace appropriate gain level setting between the amplifier and head unit.

**About Power supply wires (Fig. 3)**  
**CAUTION**  
 If the length of the power and ground cables exceed 1m, or if you connect more than one amplifier, a distribution block should be used. See below for wire gauge recommendations for distribution block connection to battery and ground (depends upon wire length necessary).  
 • 4AWG(21mm<sup>2</sup>) or 2AWG(33mm<sup>2</sup>)  
 Ensure that you install a correctly-rated in-line fuse on the power cable near this battery positive post.

**Speaker Level Input Connector**  
 These input leads are for use with head units not equipped with preamp outputs. When not using the RCA Line Input connectors, you should connect these wires to the speaker output leads of your head unit. The MRV-M250 accepts input from high power or standard power head units.  
**NOTES:**  
 • Use either RCA line level or speaker level inputs. Do not connect both at the same time.  
 • For the "Speaker Level Input System" setting, connecting the Remote Turn-On Lead is not required due to the "REMOTE SENSING" function of this product. However, the "REMOTE SENSING" function may not work depending on the signal source connected. In such a case, connect the Remote Turn-On Lead to an incoming power supply cord (accessory power) in the ACC position.  
**Speaker Input Leads**  
 These leads are input leads for use with head units not equipped with preamp outputs. When not using the RCA Line Input connectors, you should connect these wires to the speaker output leads of your head unit. The MRV-M250 accepts input from high power or standard power head units.  
**Front Left Speaker (White (+))**  
**Front Left Speaker (White/Black (-))**  
**Front Right Speaker (Gray (+))**  
**Front Right Speaker (Gray/Black (-))**  
**Rear Left Speaker (Green (+))**  
**Rear Left Speaker (Green/Black (-))**  
**Rear Right Speaker (Violet (+))**  
**Rear Right Speaker (Violet/Black (-))**

**Power Supply Terminal**  
**Battery Lead (Sold Separately)**  
 Be sure to add an in-line fuse with the battery lead as close as possible to the battery's positive (+) terminal. This fuse will protect your vehicle's electrical system in case of a short circuit. Consult the table below for appropriate fuse value and minimum wire gauge requirement.  
 • 30 amp fuse, 8AWG/3mm<sup>2</sup>  
**Remote Turn-On Lead (Sold Separately)**  
 Connect this lead to the remote turn-on (positive trigger, +) 12V only output of your head unit. If a remote turn-on lead is not available, see "Connection Checklist (Fig. 5)" for alternative method.  
**NOTE:**  
 • If using speaker input level signal from the head unit, remote turn-on lead connection is not necessary due to automatic signal detection.

**CONNEXIONS (Fig. 2 - Fig. 3)**

Avant d'effectuer les connexions, vérifiez que tous les composants audio sont correctement branchés. Raccordez le câble de la batterie provenant de l'amplificateur directement à la borne positive (+) de la batterie du véhicule avec un fusible approprié (voir la section concernant le fil de la batterie). Ne connectez pas ce fil au boîtier à fusibles du véhicule.  
 Pour éviter que des bruits extérieurs interfèrent avec le système audio:  
 • Installez l'appareil et achetez les câbles à au moins 10 cm (3-15/16") de distance du faisceau de câbles de la voiture.  
 • Éloignez les câbles d'alimentation de la batterie le plus possible des autres câbles.  
 • Raccordez bien le fil de terre à un point métallique apparent (enlevez la couche de peinture ou de graisse si nécessaire) du châssis de la voiture.  
 • Si vous rajoutez un filtre antiparasites en option, raccordez-le le plus tôt possible de l'appareil. Contactez votre revendeur Alpine pour plus de détails sur les divers filtres antiparasites disponibles.  
 • Consultez votre revendeur Alpine pour plus de détails sur les mesures de prévention contre les parasites.

**Bornes de sortie du haut-parleur**  
 Le MRV-M250 a une série de sorties d'encore. Veillez à effectuer correctement les raccordements aux bornes de sortie correspondantes et à respecter les polarités par rapport aux autres haut-parleurs du système. Raccordez la borne de sortie positive à la borne positive du haut-parleur, et la borne négative à la borne négative. Ne raccordez pas la borne négative du haut-parleur (-) au châssis du véhicule.  
**REMARQUES:**  
 • Ne jamais connecter les conducteurs de haut-parleur ensemble ou sur la terre du châssis.  
 • L'entrée est stéréo, mais la sortie est monaurale.  
 • Dans certaines installations, il est peut-être souhaitable d'inverser la polarité de sortie de l'enceinte pour optimiser les performances des graves.  
**Fusible: 30A**  
 UTILISEZ DES FUSIBLES DE L'AMPÉRAGE APPROPRIÉ. Il y a un risque d'incendie ou de décharge électrique.  
**Bornes d'alimentation électrique**  
**Conducteur de la batterie (vendu séparément)**  
 Veillez à ajouter un fusible en ligne au fil de la batterie aussi près que possible de la borne positive (+) de la batterie. Ce fusible protégera votre système électrique de votre véhicule en cas de court-circuit. Consultez le tableau ci-dessous pour connaître l'ampérage approprié des fusibles et les exigences minimales en matière de jauge d'épaisseur à fils.  
 • Fusible de 60 A, 8AWG/3mm<sup>2</sup>

**Conducteur de mise sous tension télécommandée (vendu séparément)**  
 Raccordez ce fil au fil de mise sous tension télécommandée (déclencheur positif, +) 12V seulement de votre véhicule principal. Si la mise sous tension télécommandée n'est pas disponible, voir la section « Liste de vérification des connexions (Fig. 5) » pour connaître les méthodes alternatives.  
**REMARQUE:**  
 • Si vous utilisez le signal de niveau d'entrée de haut-parleur provenant de l'unité principale, la connexion du fil de mise sous tension télécommandée n'est pas nécessaire, car le signal est détecté automatiquement.

**Conducteur de mise à la terre (vendu séparément)**  
 Connectez ce conducteur sur un endroit propre et métallique du châssis du véhicule. Vérifiez la mise à la terre en contrôlant le passage de courant continu entre ce point et la borne négative (-) de la batterie. Maintenez, augmentez le gain de l'amplificateur jusqu'à ce que le son des haut-parleurs devienne altéré. Réduire le gain petit à petit jusqu'à ce que le son ne soit pas altéré pour obtenir un réglage de gain optimal.

**Indicateur d'alimentation**  
 Couleur de l'indication État Solution  
 Vert Le circuit de l'amplificateur est normal.  
 Rouge (clignotant) La température de fonctionnement est élevée. Faites baisser la température intérieure du véhicule à une valeur normale. L'indicateur passe au vert.  
 Rouge Le circuit de l'amplificateur présente une anomalie. Un court-circuit électrique s'est produit ou le courant d'alimentation est trop élevé. Éteignez la source d'alimentation, puis éliminez la cause du problème. Mettez l'unité sous tension, puis vérifiez que l'indicateur passe au vert. Si reste rouge, mettez l'unité hors tension et consultez votre revendeur.  
 Rouge La température de fonctionnement est trop élevée. Faites baisser la température intérieure du véhicule à une valeur normale. L'indicateur passe au vert.  
 La tension d'alimentation est trop élevée. Utilisez la tension d'alimentation appropriée. L'indicateur passe au vert.

**Conducteur de mise sous tension télécommandée (vendu séparément)**  
 Raccordez ce fil au fil de mise sous tension télécommandée (déclencheur positif, +) 12V seulement de votre véhicule principal. Si la mise sous tension télécommandée n'est pas disponible, voir la section « Liste de vérification des connexions (Fig. 5) » pour connaître les méthodes alternatives.  
**REMARQUE:**  
 • Si vous utilisez le signal de niveau d'entrée de haut-parleur provenant de l'unité principale, la connexion du fil de mise sous tension télécommandée n'est pas nécessaire, car le signal est détecté automatiquement.

**Conducteur de mise à la terre (vendu séparément)**  
 Connectez ce conducteur sur un endroit propre et métallique du châssis du véhicule. Vérifiez la mise à la terre en contrôlant le passage de courant continu entre ce point et la borne négative (-) de la batterie. Maintenez, augmentez le gain de l'amplificateur jusqu'à ce que le son des haut-parleurs devienne altéré. Réduire le gain petit à petit jusqu'à ce que le son ne soit pas altéré pour obtenir un réglage de gain optimal.

**Indicateur d'alimentation**  
 Couleur de l'indication État Solution  
 Vert Le circuit de l'amplificateur est normal.  
 Rouge (clignotant) La température de fonctionnement est élevée. Faites baisser la