

cerwin
vega
mobile



VEGA SERIES

**AMPLIFIED 12"
SUBWOOFER**



UPAS12

USER MANUAL

Introduction

Cerwin Vega Mobile Amplified Subwoofer

Thank you for purchasing a Cerwin Vega Mobile Amplified Subwoofer for your car audio system. You have chosen Cerwin Vega Mobile because you deserve the best!

Cerwin Vega Mobile products are designed and engineered to the highest quality standards in the industry to create the ultimate listening experience in your vehicle. For optimal performance of this product, it is highly recommended that you have your new amplified subwoofer installed by an authorized Cerwin Vega Mobile dealer. Our authorized dealers have the necessary experience and installation equipment to ensure that your amplifier will deliver maximum performance and explain all the details pertaining to your warranty coverage as well.

If you decide to install the amplified subwoofer by yourself, please thoroughly read through this manual before getting started. This manual will help familiarize yourself with this amplified subwoofer and guide you through the installation process and procedures.

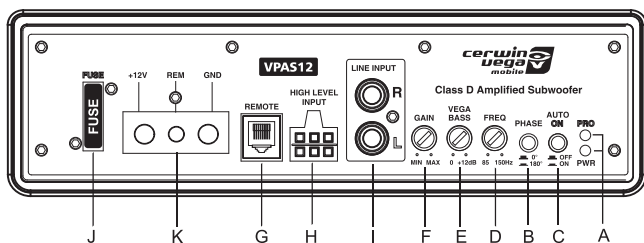
Please contact your local authorized Cerwin Vega Mobile dealer if you have any questions regarding the instructions in this manual or the amplifier's operation capabilities. If you require additional assistance, please contact the Cerwin Vega Mobile Technical Support Department during business hours at 213-261-4161.

Specifications

MODEL:	VPAS12
Power	250 WRMS/600 WMAX
THD	<0.4%
Signal-to-noise ratio	>90dB
Frequency response	30Hz - 150Hz
Input sensitivity, high level	0.9V -12V
Input sensitivity, low level	0.3V - 5V
Low Pass Filter	85Hz - 150Hz
Bass Boost	0 to + 12dB
Subsonic Filter	30Hz
Fuse rating	25A
Subwoofer	12 inch, 4ohm
Dimensions(L x W x H) inches/mm	13.5"(342.9) x 11.25"(285.75) x 3.0"(76.2)

All specifications subject to change without notice.

Panel controls and features



A. POWER STATUS LED

There is a GREEN "power" LED that glows green when power is on and no problems are present. If the protection circuit (PRO) comes on, it will illuminate the other LED RED

B. PHASE SWITCH

Use this switch to help compensate for time alignment problems in the system. Such problems usually result from having the subwoofer at a different distance from the listener than the other speakers in the system.

C. AUTO POWER ON

The AUTO POWER ON (ON/OFF) is for high level (speaker-level) connections. When the switch is in the "ON" position, the subwoofer will AUTO POWER ON when signal is detected. If the amplifier detected no signal input, the amplifier will auto turn off. If you prefer to use the remote turn on/off connection, the switch is in the OFF position.

Note: Please connect the remote terminal to the remote output of head unit as in Fig.4. When you hear the unit turn ON/OFF there should be a very slight POP noise from the subwoofer.

D. LOW PASS FILTER

This control permits you to define the frequency range you want the subwoofer amplifier to receive. The subwoofer will reproduce all sound BELOW the frequency you set.

Note: The low pass filter frequency can be higher or lower than the marked Frequency. There is a +/-20% tolerance.

E. BASS BOOST

The BASS BOOST feature will increase the sound level in the bass frequencies.

F. INPUT GAIN CONTROL

After you have installed your system, turn this GAIN control to minimum (counter-clockwise).

Turn the head unit on and adjust the head unit volume to a comfortable listening level.

Slowly turn up the subwoofer input gain control until you hear a small amount of distortion. Then reduce the level until the distortion is completely gone. Level the control at this setting.

G. REMOTE LEVEL CONTROL PORT

If you are going to use the REMOTE BASS control, attach the included remote level control BEFORE setting gain and "pre-set" it to about the 12 o'clock position.

H. HIGH LEVEL (speaker level) INPUTS

If your head unit does not have RCA outputs you can use the speaker outputs for the audio source for the subwoofer. Use the supplied cable and wire harness and connect the outputs properly as shown in the connection diagram in this manual (FIG2, PG4)

I. LOW LEVEL RCA INPUTS

Low level inputs are the recommended way to introduce the audio signal to the subwoofer IF RCA outputs are present on your head unit or other signal source (such as a sound processor - see FIG 1, PG4).

J. FUSE

Do not use a fuse with a different value and NEVER replace the fuse with a wire or coin. The fuse is there to protect the vehicle NOT the amplifier/subwoofer.

K. POWER INPUT TERMINAL

Use 8 guage COPPER wire!! NOT CCA type cheap-o deluxe wire kits!!!!

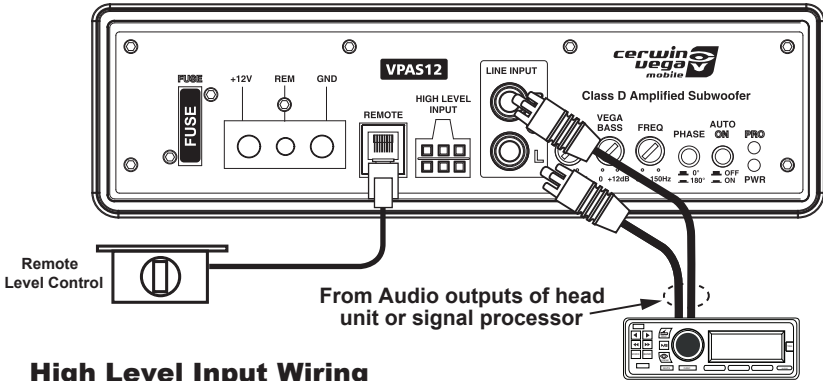
Installation

Low Level Input Wiring

Low-level (RCA) input wiring is preferred for best audio performance. Most trunk or hatchback installations will require a 15-20 foot RCA cable, while pickup trucks and under-seat installations will require a 6-12 foot RCA cable. Always use a high quality cable.

NOTE: Do not connect BOTH the high level and low level inputs from your receiver to your amplifier at the same time!

Fig.1 **SPECIAL NOTE: Always route power and signal separately**

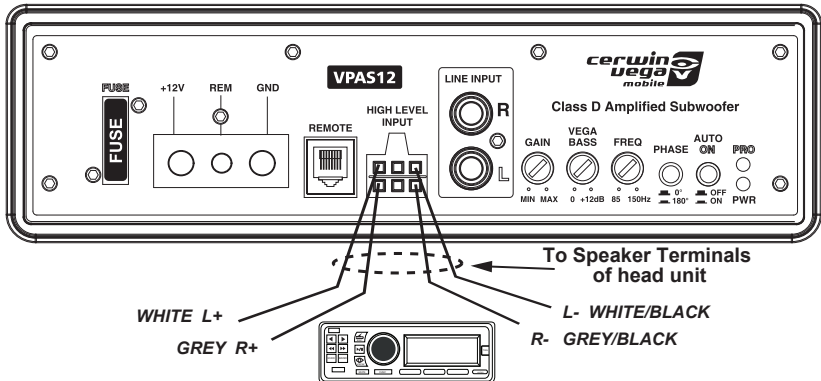


High Level Input Wiring

The high level input(s) should only be used when your headunit lacks RCA outputs. If the RCA outputs are not present, connect the speaker outputs from the head unit to the high level input connector of the amplifier. Be sure to observe polarity to avoid audio phase problems.

NOTE: Do not connect BOTH the high level and low level inputs from your receiver to your amplifier at the same time!

Fig.2



Installation

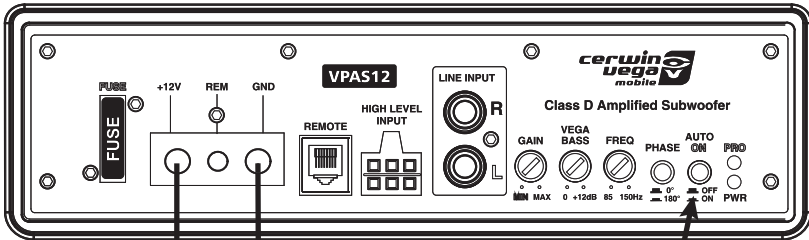
Power Connections

Connect the ground terminal to the closest point on the chassis of the vehicle. Keep this ground wire to less than 18" (45 cm) in length. Use 8 gauge wire (NO CCA WIRE!!!!)

Connect the remote terminal to the remote output of head unit using 16 gauge wire.

Connect an empty fuse holder within 18" (45 cm) of the car battery, and run 8 gauge cable from this fuse holder to the amplifier location. Then connect the fuse holder to the "BATTERY+" (+12V) connection on the subwoofer rear panel. Insert FUSE now.

Fig.3



NOTE: In this connection, the **AUTO TURN ON** switch is in the **ON** position.

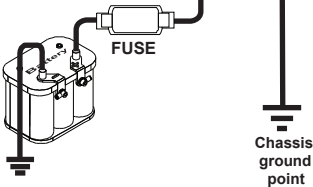
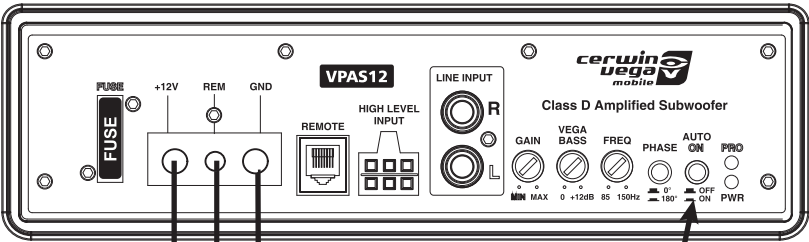
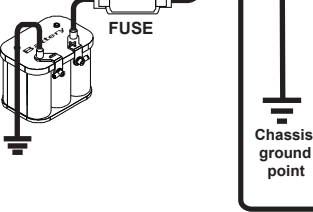


Fig.4



NOTE: In this connection, the **AUTO TURN ON** switch is in the **OFF** position.



to REMOTE TURN-ON
terminal of head unit

Installation

We included mounting brackets to ensure the subwoofer remains securely mounted. Two types of installation are possible.

In the trunk

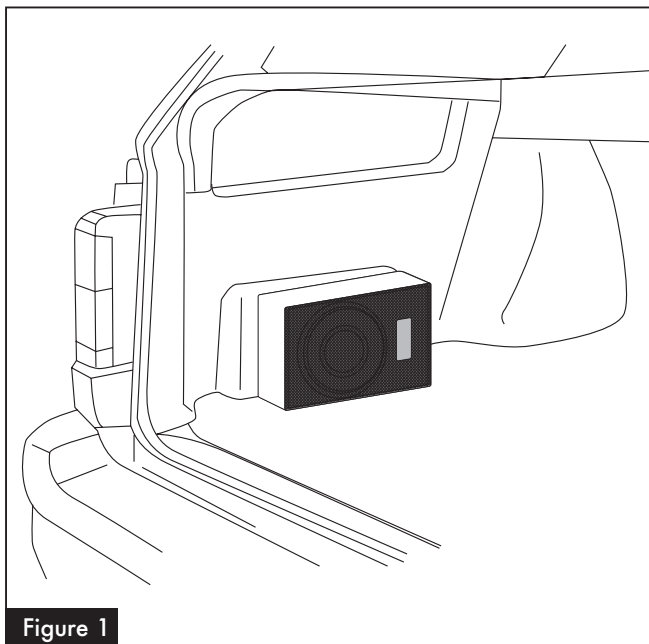


Figure 1

- 1 - Rear seats must be positioned in their normal fixed position.
- 2 - Decide the best location possible that suits your automobile and space available.
The best and most secure location for optimum sound quality is behind the rear seats, or the trunk floor (see Figure 1).
- 3 - Ensure the area for subwoofer location is clean and tidy. Any loose objects must be removed, as they could knock and damage the subwoofer.
- 4 - Once the location has been decided, mark the screw hole positions for the fixing brackets. Be cautious of plastic panels!!
- 5 - Drill holes of 2 mm for the 4 fixing brackets, at your defined locations.
- 6 - Fix the clamps to the subwoofer basket with the four machine screws M6*8 (the mounting brackets have a mounting direction system). (Figure 2 & 3)
- 7 - Position the subwoofer so that the holes correspond to the M4*25 supplied screws and fix it. (Figure 4)
- 8 - Please make sure the subwoofer enclosure is tightly fixed.



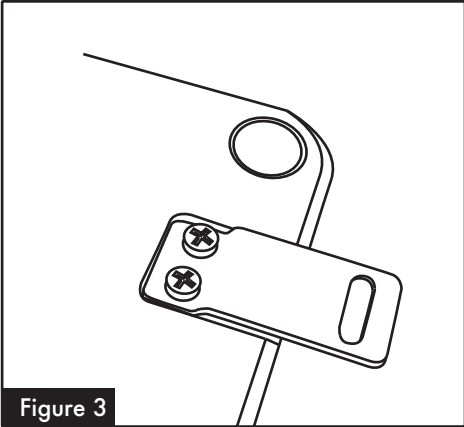
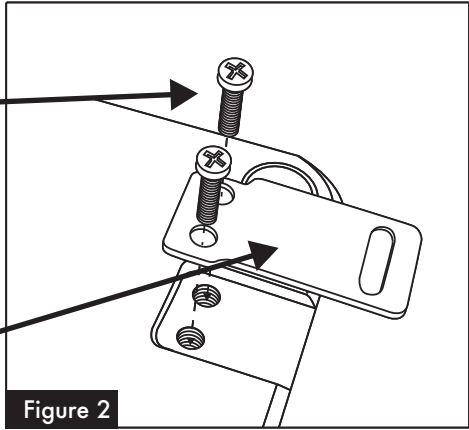
CAUTION!! Make sure to not drill or screw into vital vehicles componets!!!



Installation

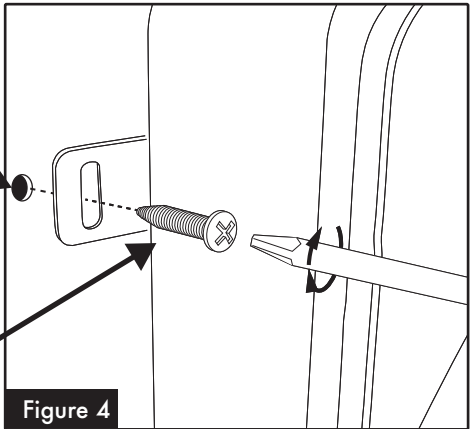
(4) Machine Screws M6*8

(4) Mounting Tabs



Pre Drilled Mounting hole

(4) M4*25mm supplied screws



Installation

Under a seat

- 1 - The seat must be positioned in its normal fixed position.
- 2 - Decide the best location possible that suits your automobile and space available, checking that the enclosure doesn't hamper the seat mobility. (See Figure 1)
- 3 - Ensure the area for subwoofer location is clean and tidy. Any loose objects must be removed.
- 4 - Once the location has been decided, mark the screw hole positions for the fixing brackets.
- 5 - Drill holes of 2 mm for the 4 fixing brackets, at your defined locations.
- 6 - Fix the clamps to the subwoofer basket with the 4 -machine screws M6*8 (the fixing clamps have a mounting direction system) (Figure 2 & 3)
- 7 - Position the subwoofer so that the holes correspond to the M4*25 supplied screws and fix it. (Figure 4)
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CAUTION!! Make sure to not drill or screw into vital vehicles components!!!



Under a seat

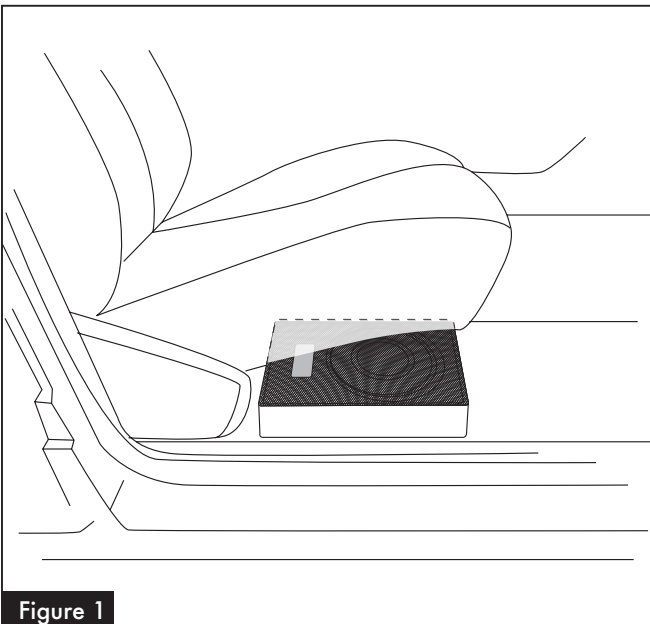
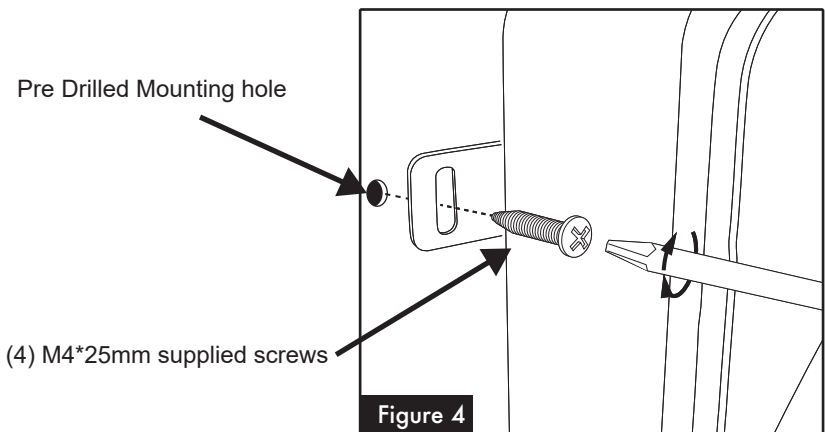
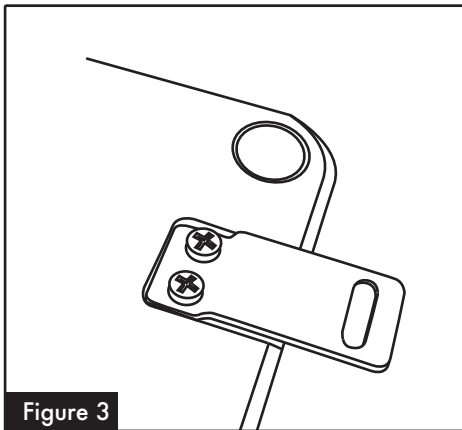
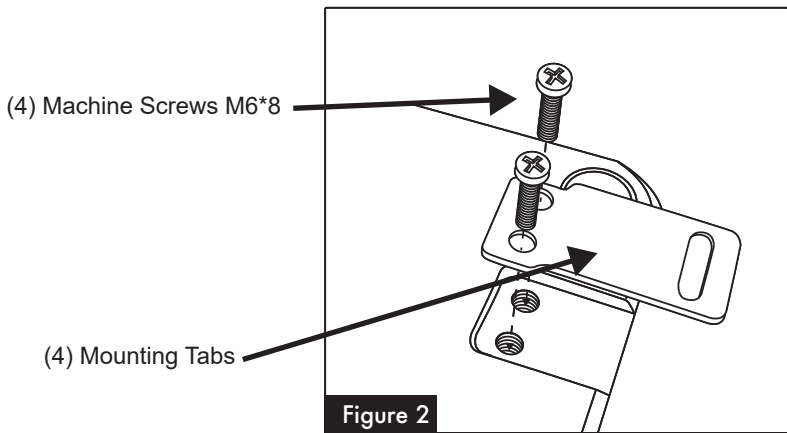


Figure 1

Installation



Troubleshooting

If you experience operation or performance problems with this product, compare your installation with the electrical wiring diagram on the previous pages. If problems persist, read the following troubleshooting tips which may help eliminate the problems.

SYMPTOM	POSSIBLE REMEDY
Amplifier will not power up.	<p>Check to make sure you have a good ground connection.</p> <p>Check that there is at least 12v on the battery (+) terminal</p> <p>Check that the Remote Input (Turn-On) has at least 10VDC.</p> <p>Check that the green power LED is lit</p> <p>Check all fuse, replace if necessary.</p> <p>Make sure that the Protection LED is not illuminated. If it is lit, shut off the amplifier briefly, and then Power Cycle (reset).</p>
Protection LED comes on when amplifier is powered up	<p>Turn down the volume control on the head unit to prevent overdriving the input speaker leads,</p> <p>Try Power cycling (reset) the amplifier. If the Protection LED still comes on, then the amplifier is faulty and needs servicing</p>
No output.	<p>Check that all fuses are OK.</p> <p>Check that the power light is on</p> <p>Check that unit is properly grounded.</p> <p>Check that the Remote Input (Turn-On) has at least 10VDC.</p> <p>Check that the input signal connections are plugged in properly.</p>
Low output.	<p>Readjust the Input Gain Control.</p> <p>Check the Crossover Control settings, possibly try a higher frequency.</p>
High hiss in the sound.	<p>Disconnect all RCA inputs to the power sub's control panel. If the hiss disappears, then plug in the component driving the amplifier and unplug its inputs. If the hiss disappears at this point, go on until the faulty/noisy component is found.</p> <p>Reset Input Gain. It is best to set the subwoofers input level control as low as possible. The best subjective signal-to-noise ratio is achieved in this manner. Try to set the head unit as high as possible (without distortion) and the subwoofer input level as low as possible.</p>
Squealing noise is present.	<p>Check for improperly grounded RCA interconnects. Or possible "blown" signal ground from headunit. (Some headunits are notorious for this!)</p>
Distorted sound.	<p>Check that the Input Gain control is set to match the signal level of the head unit. Always try to set the Input Gain on the subwoofer as low possible. Input gain is NOT power output!! Check that all crossover frequencies are properly set.</p>
Amplifier gets very hot.	<p>Readjust the Input Gain Control.</p> <p>Make sure to NOT use CCA power wire as it will cause these issues</p>
Engine noise (static type)	<p>This is usually caused by poor quality RCA cables, which can pick up radiated noise. Use only the best quality cables, and route them away from power cables.</p>
Engine noise (alternator whine)	<p>Check that the RCA grounds are not shorted to the vehicle chassis</p> <p>Check that the head unit is properly grounded.</p>

Warranty

Thank you for purchasing a Cerwin Vega Mobile product and we hope to provide you with countless hours of listening enjoyment.

Please take a brief moment to register your new product. By registering your new product, you will receive benefits such as:

- Important product notifications that may pertain to your purchase.
- Confirmation and record of ownership in case of loss or theft.
- Knowledgeable customer service and technical assistance pertaining to your product.

Register your new product by completely filling out this Product and Warranty Registration card or register online at www.cerwinvegamobile.com.

Registration is voluntary and failure to register will not diminish your limited warranty rights.

Limited Warranty (U.S.A.)

Cerwin Vega Mobile warrants all of our amplifiers and speakers to be free of defects in materials and workmanship for a period of one (1) year.

This warranty is non-transferable and applies only to the original purchaser from an authorized Cerwin Vega Mobile dealer. If service is required and necessary under this warranty due to manufacturing defect or malfunction, then Cerwin Vega Mobile will repair and/or replace defective product with either new or remanufactured like product at no charge at our discretion.

Damage to product caused by the following will not be covered under this warranty: abuse, accident, misuse, neglect, modifications, repairing attempts, seller/installer misrepresentation.

This warranty does not cover any incidental, consequential, or cosmetic damage due to accidents or normal wear and tear, nor does it cover the cost of removing or reinstallation of the product.

Warranty is void if the product's serial number has been removed, defaced, and/or tampered with.

Warranty Procedure:

We recommend that you contact your Cerwin Vega Mobile authorized dealer where your original purchase was made to initiate all warranty claims. Our authorized dealers can guide you through the warranty procedure to ensure that your claim will be processed in a timely manner. All warranty returns must be accompanied with a proof of purchase (a copy of the original sales receipt) and be shipped freight prepaid to our facility with an RA (Return Authorization) number clearly marked on the outside of the package. Direct returns from consumers or non-authorized dealers will be refused if shipped without a valid RA number authorized by Cerwin Vega Mobile beforehand.

INTERNATIONAL

Products purchased outside of the U.S.A. are covered only by that country's distributor and not by Cerwin Vega Mobile U.S.A.

Please Ship All Warranty Claims With Pre-Authorized RA Number To:

CV&DA Holdings, Inc.

ATTN: Customer Service Department

1225 E. 7th St.

Los Angeles, CA 90021 USA

Please Contact Customer Service for Further Warranty Information:

U.S.A.

Tel: 213-261-4161 / Fax: 213-947-4767



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