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Please report any resale of this material to us at thecarversite.com
Safety Instructions

1. Read Instructions — All the safety and operation instructions should be read before the Carver Component is operated.

2. Retain Instructions — The safety and operating instructions should be kept for future reference.

3. Heed Warnings — All warnings on the Component and in these operating instructions should be followed.

4. Follow Instructions — All operating and other instructions should be followed.

5. Water and Moisture — The Component should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

6. Ventilation — The Component should be situated so that its location or position does not interfere with its proper ventilation. For example, the Component should not be situated on a bed, sofa, rug, or similar surface that may block any ventilation openings; or placed in a built-in installation such as a bookcase or cabinet that may impede the flow of air through ventilation openings.

7. Heat — The Component should be situated away from heat sources such as radiators, or other devices which produce heat.

8. Power Sources — The Component should be connected to a power supply only of the type described in these operation instructions or as marked on the Component.

9. Power Cord Protection — Power-supply cords should be routed such that they are not likely to be walked upon or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit the Component.

10. Cleaning — The Component should be cleaned only as recommended in this manual.

11. Non-use Periods — The power cord of the Component should be unplugged from the outlet when unused for a long period of time.

12. Object and Liquid Entry — Care should be taken so that objects do not fall into and liquids are not spilled into the inside of the Component.

13. Damage Requiring Service — The Component should be serviced only by qualified service personnel when:

   A. The power-supply cord or the plug has been damaged; or
   B. Objects have fallen, or liquid has spilled into the Component; or
   C. The Component has been exposed to rain; or
   D. The Component does not appear to operate normally or exhibits a marked change in performance; or
   E. The Component has been dropped, or its cabinet damaged.

PORTABLE CART WARNING

Carts and stands - The Component should be used only with a cart or stand that is recommended by the manufacturer. A Component and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the Component and cart combination to overturn.
Dear CARVER Customer,

Thank you for choosing CARVER Speakers. We at CARVER CORPORATION realize that there is an abundance of speaker designs from which to choose, and the differences between the various models are not always apparent at first glance. CARVER CORPORATION strives to produce for you the finest in audio reproduction equipment which integrates the latest and best technology with the most competitive price possible.

You are about to experience stunning realism with instant dynamic response, excellent power handling and vivid stereo imaging — all in a design that is totally free of cabinet resonance-induced colorations. Your Platinum Edition Amazing Loudspeakers’ visual beauty is matched by a natural elegance of sound that transcends any conventional multi-transducer design.

CARVER’s Platinum Edition Amazing Loudspeakers represent the latest advance in electronically-controlled flat-panel speakers. The system uses edge-mounted, full-range ribbon drivers and four 12-inch dynamic subwoofers.

The Platinum Edition’s ribbon transducers are an elegant solution to the problem of multiple driver arrays and complicated crossovers. Instead of two or more midrange and treble transducers, a single ribbon handles the entire sound spectrum without frequency anomalies and phase problems which inevitably result from multi-driver arrays with complex crossovers.

Also of interest is the subwoofer system. Before we introduced The Amazing Loudspeaker, conventional bass reproduction techniques required a huge, bulky enclosure to house even one 12-inch sub-woofer. Through use of special transducers, we are able to deliver flat response to 40 Hz in a speaker just ten inches deep!

Together, the ribbon transducers and four subwoofers deliver a wide sound field, superb bass response, and overall musicality that must be heard to be believed. Your Platinum Edition Amazing Loudspeakers are capable of creating stereo imaging unmatched by any other speakers. You will hear each instrument etched in the sound field with space, depth and ambience.

Set-up of your Platinum Edition Amazing Loudspeakers is simple, but somewhat more critical than with most conventional loudspeakers.

Following the tips in this Owner’s Manual will help you get the most out of your new CARVER speaker system. Experimentation is the key. In the process you will learn about the different effects that placement, tilt-back and toe-in can have on the sound of the speakers in your particular room. You will find it not only easy but fun to optimize performance by exploring various placement options.

I am proud to present to you the best in craftsmanship and design, as exemplified by your new Platinum Edition CARVER Amazing Loudspeakers.

Bob Carver
Chairman of the Board and
Vice President of Advanced Research,
CARVER CORPORATION
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1. Prior to Assembly

Unpacking Your Platinum Edition Loudspeakers

NOTE: Before further unpacking the large cartons, quickly scan the “Room Placement” section in this manual beginning on page 9. Unpacking the main panels close to the spot where you intend to locate the speakers will save you time.

1. Inspect the outside of the cartons for damage. If you do encounter what may be signs of damage, contact your CARVER dealer before proceeding further. If not...

2. Lay the boxes flat on the floor and open them. DO NOT remove the protective plastic bags which encase each panel.

WARNING: The ribbon drivers along the front edge of the Amazing Loudspeaker panels could be damaged if a sharp object fell on them. Make sure that you do not have anything in your shirt or jacket pocket which could fall out as you bend over the speakers.

3. At this time, check for any visible sign of damage. If you do encounter what appear to be signs of damage, contact your CARVER dealer before proceeding further.

4. Inventory the contents of the boxes. Your system comes packed in two cartons. Each box holds: A) an Amazing Loudspeaker Panel with two connecting brackets attached, B) one speaker stand with two “glides” threaded into its bottom surface and, C) four bolts and four nuts. The box marked LEFT also contains: D) this Owner’s Manual, E) Warranty Card and Limited Warranty.

5. Make a note of the serial numbers which are located on the rear of your Platinum Edition Amazing Loudspeaker panels.

Record these numbers in the space provided for convenient reference. You will need these numbers in the event you require service or for insurance purposes.

Model: The Amazing Loudspeaker - Platinum Edition

Speaker Serial Numbers: __________________________________________________________

Purchased from: _________________________________________________________________

Date: _________________________________________________________________________

6. Also make sure to keep the sales receipt from your CARVER dealer. It, too, is necessary for service and insurance purposes.

7. Fill out and mail the Warranty Card which is packed in a separate envelope with the Limited Warranty. It must be returned to validate any repair work performed during the Warranty period.
2. Assembling the Amazing Loudspeaker - Platinum Edition

Because of the unique design of the Amazing Loundspeakers, it is important that you carefully follow all of the steps in this and the next two sections. Here is an overview of the sequence necessary to begin enjoying your new loudspeakers.

1. Assemble speaker panels.
2. Adjust tilt of speaker panels.
3. Connect speakers to amplifier.
4. Position speakers.
5. Listening tests and adjustments.

How to Assemble

1. Remove any remaining foam packing and gently lift out the speaker panels.
2. Remove just enough of the plastic bag around the bottom of each panel to expose the bracket attached to the back of the speaker. Leaving the rest of the speaker panel covered protects it during the next steps.
3. Locate the four bolts and nuts and speaker stand which were packed with the main speaker panel.
4. While the panel is still laying "face down", attach the speaker stand as shown in Figure 1. Tighten the nuts snugly.
5. Carefully raise each panel to its standing position.
6. Remove the rest of the protective plastic which encases each panel. NOTE: DISPOSE OF THIS PLASTIC IMMEDIATELY. It is not a toy and can cause suffocation if left where infants, toddlers and children can reach it.
7. If you have purchased lacquer finish Amazing Loundspeakers note that a layer of wax has been applied to speakers at the factory to further protect the finish. During shipment, the packing material and the large paper towels that wrap the loudspeaker may cause the wax and oils on the finish to become slightly mottled. Included with your speakers are some special buffing towels. After the speakers are set up, remove mottling, fingerprints, etc. by spraying a small amount of Original Endust, on the soft side of the polishing towel and lightly buffing the speakers. Be very careful not to get Endust on the grille cloth. No permanent harm will result, however, since it will evaporate in a few weeks.

Figure 1. Assembly

Tilting the Speakers

The next series of steps will tilt your speakers back to their optimal angle of 9° from vertical. This is important to realize the full imaging and dispersion capabilities of your Platinum Edition Amazing Loundspeakers.

As you can see from Figure 2, the speakers' angle is determined by how far the two "glides" on the rear of the speaker base are extended. Screwing the glides in closer to the base increases the tilt angle; extending them away from the base decreases tilt.

The actual amount of adjustment will be determined by your floor surface:
- Thick carpet requires different glide extension than a bare floor.

1. Tie a small non-metallic weight to a string approximately 65 " long.
2. Attach the string to the top of the speaker panel, allowing the weight to swing freely just above the floor surface. You can GENTLY tape it to one of the BACK top corners using easily removeable masking tape, or simply have someone hold it as shown in Figure 2.
3. Measure the distance between the front of the speaker panel and the weight. For the optimum 9° tilt, the distance between the BACK of the panel and the weight should be 5-1/4 inches. We have also included a "ruler" on the bottom of this page (Figure 3) for your convenience. Just fold this manual back and slip it in alongside the panel.

4. To adjust the glides, have someone tilt the speaker panels FORWARD slightly so that you can reach under the stand and rotate the glides. When you are facing the back of the speaker stand, twisting the glides to the LEFT increases tilt; turning them to the RIGHT decreases tilt.

BE SURE TO ADJUST BOTH GLIDES EQUALLY!

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3. Connecting the Amazing Loudspeaker

The Platinum Edition Amazing Loudspeaker may be connected three different ways. The first is the "normal" way with one stereo power amplifier and one speaker cable each for "+" and "-" terminal on each speaker. In this case, make sure to leave on the links which connect Ribbon and Sub Woofer terminals.

With the links removed, the Platinum Edition Amazing Loudspeaker may be bi-wired or bi-amplified. Bi-wiring is a technique used by some audiophiles. It consists of separate leads for high and low frequencies. Both leads are connected to the same power amplifier output terminal.

The other option is bi-ampification. This approach uses separate power amplifiers (or power amplifier channels) to drive each Amazing Loudspeaker's Ribbon and Sub Woofer. It is important to note that this isn't bi-amplification in its strictest sense, since the Platinum Edition's subwoofer crossover is still in operation as a low pass filter, eliminating the need for an electronic crossover in front of the power amplifiers. If you choose this method, make sure to use power amplifiers of nearly equal power for high and low speaker outputs.

For more details on bi-amplification and bi-wiring, consult your Carver dealer.
Speaker Wire Considerations

If you have not done so yet, quickly scan the “Placement of Speaker” section in this manual beginning on page 9 to insure that your amplifier-to-speaker cables will be long enough.

The choice of cable used with Platinum Edition loudspeakers is somewhat less critical than with most other designs, due to the resistive nature of the load. Amazing Loudspeakers present the amplifier. Each cable's overall resistance should not, however, exceed 2 ohms.

With standard wire thicknesses (gauges) the following are recommended guidelines for minimal line loss (line resistance under 2 ohms).

<table>
<thead>
<tr>
<th>Gauge</th>
<th>Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>14</td>
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<td>16</td>
<td>22</td>
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<tr>
<td>14</td>
<td>36</td>
</tr>
<tr>
<td>12</td>
<td>57</td>
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</tbody>
</table>

Your CARVER Dealer can also recommend brands of special “audiophile” cable which is pre-terminated with gold-plated connectors. Whatever you use, make sure that the conductors and/or connectors are clearly differentiated for ease in matching “+” and “−” terminals at the amplifier and speakers.

We also recommend that you use equal lengths of wire for both left and right speakers in situations where wire length exceeds 20 feet. Otherwise, coil up any extra wire from the closer channel and secure it with a cable tie or rubber band. Make certain that coiled loops are no smaller than two feet in diameter to avoid the creation of line inductance.

Power Amplifier Considerations

Check your amplifier’s Owner’s Manual for its rated power output at 8 ohms. The Platinum Edition is capable of achieving high volume levels without distress and sustaining short-term output peaks in excess of 200 watts. Thus an amplifier rated at 350 watts per channel will allow peak sound levels as high as 115 dB.

Connecting the Speakers to the Amplifier

The Amazing Loudspeaker will give its optimum performance with an amplifier delivering up to 750 watts. It can, however, be driven to perfectly adequate levels with an amplifier rated at as little as 35 watts per channel.

1. Make sure that your amplifier is switched OFF.
2. If you are using wire without any sort of connector on the end, twist the individual strands into a tight spiral.
3. Attach one conductor to the RED terminal on the back of the right speaker panel (See Figure 4, page 7). If you are using wire without a connector, unscrew the RED terminal and insert the wire into the hole in the protruding post. Then tighten it down snugly.
4. Connect the other end of the SAME conductor to the RIGHT “+” or RED speaker output terminal on the back of your amplifier.
5. Attach the other conductor to the BLACK terminal on the back of the RIGHT speaker panel and connect the other end to the RIGHT “−” or BLACK speaker output terminal on the amplifier.
6. Repeat steps 3 and 4 for your LEFT speaker using the LEFT speaker output terminals on the amplifier.
7. Note Figure 5 and CAREFULLY check the following:
   - Left & Right. Is the left Amazing Loudspeaker connected to the left amplifier speaker terminal, etc.?
   - “+” & “−”. Are the individual conductors connected with correct polarity? Make sure that RED on the speaker is connected to RED (or “−”) on the amplifier, etc.
   - Stray strands. Check to see that no strands of wire are touching the opposite speaker or amplifier terminals. Even one loose strand can cause a short circuit.
8. To double-check speaker polarity and phasing, see Appendix - Advanced Polarity and Phasing Listening Test.
4. Placement of the Speakers

Room Placement

Tonal quality, clarity of reproduction and sharpness of stereo image are directly determined by the sound that reaches the listener directly, without reflection from walls, floor and ceiling.

That means you should experiment to get the best performance. In general, Platinum Edition Amazing Loudspeakers are placed as you would any conventional speaker system. However, the following points should be used as guidelines during your experimentation.

- Amazing Loudspeakers should never be placed LESS than 3 feet from the back wall.
- The speakers should be placed approximately 6 feet apart.
- They should never touch the side walls of the room, but should remain at least 18 inches away.
- Amazing Loudspeakers should be angled inwards slightly from the horizontal axis (this is referred to as "toe-in").
- For best performance, the speakers should be placed on carpeting or a rug, rather than on bare floor.

NOTE: The Amazing Loudspeakers are designed to be safe and stable when freestanding in a room. However, after you have followed the steps in this and the following section and are satisfied with your Amazing Loudspeakers' final placement, you may want to use the hole drilled in the speaker stand to bolt the speakers to the floor.

Fine-tuning the following parameters will result in the best possible stereo image:

1. Tilt-back angle.
2. Distance from back wall.
3. Toe-in angle.

Tilt-back Angle

If you are in a seated position, decreasing the tilt-back angle will result in more high frequency and less midrange energy at your listening position. It will also lower the soundstage closer to the ground. If you are in a standing position, these effects are reversed. Decreasing the tilt will result in less high frequency energy and will bring the midrange slightly forward.
It is possible to find a tilt-back angle that will allow the tonal balance to remain unchanged from sitting to standing. This specific angle may or may not result in the preferred tonal balance. We recommend that you determine your favorite tilt-back angle while seated. But remember, changing the tilt angle will also change the height of the sonic image. The less tilt, the higher the image. Increasing the tilt angle will, however, often enhance the dimensionality of the soundstage.

5. Breaking in the Amazing Loudspeaker

What You Can Expect for the First 20 Hours

While the sound of the Amazing Loudspeaker Platinum Edition is immediately impressive, it will dramatically improve after a period of use.

Approximately 20 hours are required to properly “break in” the drivers in the panel. When Amazing Loudspeakers are brand new, they may have a slight tendency to sound “thick” in the lower midrange and upper bass. There may also be some restraint in the upper midrange/lower treble area. These mild sound variations will disappear as the system is “exercised”.

When your Amazing Loudspeakers’ dynamic subwoofers are new, their resonance frequency is about 26 Hz. After about half the 20-hour break-in period, they will achieve their design resonance of 22 Hz.

Initially, the Platinum Edition’s ribbon drivers’ fundamental resonance frequency is also substantially above the specified design parameter. In addition, non-uniform stress patterns in the kapton diaphragm result in non-critically-damped vibration modes. Gradually throughout the 20-hour break-in period, the fundamental resonance will establish itself and internal stress patterns will completely vanish.

During the first 20 hours, it is not only possible to play your Amazing Loudspeakers at relatively high volumes, but is actually recommended. If possible, use musical selections with strong repetitive bass and wide dynamic range. Remember, the sooner your Platinum Edition Amazing Loudspeakers get their 20-hour “exercise” period, the sooner you will realize their full sonic potential.

If the bass during the first part of the 20-hour break-in period, is intolerably boomy, install a 1-ohm, 50-watt resistor as shown in Figure 6. Write to Carver Corporation, P.O. Box 1237, Lynnwood, WA, attn: Service Department and we will mail you a set of the appropriate resistors.

Figure 6, Optional hook-up for break-in period to compensate for bass "Q". Remove only the link on the red (+) terminal. Repeat hook-up for right speaker.
6. Technical Information & Service Assistance

Questions and Answers

Why are the speakers trapezoidally shaped?
In a flat-panel speaker, low frequency sounds have long wave-lengths that interfere with each other to produce an uneven frequency response. To prevent this undesirable combing effect, the panel's width was designed to vary smoothly from top to bottom so that no single bass frequency eigentone could develop.

How can a flat-panel speaker have such good bass?
Combining very low frequencies with high output is a simple matter of raw power and cubic inches (cone area times excursion length). Since the flat baffle causes low frequency cancellation to occur below 100 Hz, a flat panel speaker must have many more cubic inches of subwoofer “horsepower” than a box speaker to achieve the same bass output.

           inspection of the fundamental frequency equation

\[ E = \frac{f^2 \cdot V_{box}}{g} \]

where:

- \( E \) = efficiency
- \( f \) = resonant frequency cutoff
- \( V_{box} \) = volume of box
- \( g \) = shape of curve at resonance frequency

shows that gigantic boxes have efficiencies as large as we please. A flat-panel speaker is, in effect, an infinity-large box (with hidden promise in high efficiency). As the box size becomes larger, the term \( V_{box} \) changes into another term, \( V_{as} \), which is a driver parameter only. Thus it is a simple job to choose the correct values of \( Q \), \( f \) and \( V_{as} \) to yield the desired response curve, efficiency and sound pressure level.

In the above equation, "\( Q \)" defines the shape of the frequency response curve, \( f \) is the low frequency cut-off and \( V_{as} \) determines the efficiency. By properly designing the driver \( Q \) to compliment the flat-panel rolloff, and designing in a very high \( V_{as} \), CARVER has produced a high-output, critically-damped \( (Q = .5) \), extended low frequency system. And, since a panel pass radiator doesn’t have the inherent box resonance to deal with, the quality of the LF output is tight without a trace of resonance boom or semitone-note bass.

Ribbon drivers have always been considered inefficient, requiring huge audio amplifiers to achieve even moderate sound levels. How does the Amazing Loudspeaker get around that problem?

CARVER builds high fidelity power amplifiers which can deliver over 44 peak amperes, so we have a good head start. Beyond that, inspecting the defining equation for a ribbon:

\[ \text{Force} = qv \times B = Il \times B \]

where:

- \( qv \) = charge velocity
- \( I \) = current
- \( I \) = length of ribbon
- \( B \) = magnetic field strength

shows that for a given charge velocity \( (qv) \) or current \( (I) \), and length \( (l) \), the force (and hence the efficiency) can be made as large as we please by making \( B \) correspondingly large as necessary. This means using large magnets which create a great deal of magnetic force. No magic. It just seems like it because we have made
the highest gauss force field of any commercial ribbon driver in the world.

It is the undistorted momentary peak levels possible with such a ribbon configuration that help give music the lifelike quality we all search for. Any good quality amplifier up to 1200 watts peak output can drive our ribbons satisfactorily.

**Why do the Platinum Edition Amazing Loudspeakers weigh so much?**

To achieve damping and good ultra-low bass, overall panel mass is important. The panels need to be heavy so that the subwoofers don’t move the panel in opposition to their motion, rather than moving air. In other words, they need to be “anchored” in order to have a stable platform from which to excite low frequency sound. Thus, the optimum mass of the panels is also related to the mass of the reflected airload at low frequencies.

**Why are the ribbons mounted next to one edge of the panel?**

A ribbon, like any other driver, is subject to two conflicting requirements to achieve its ideal performance. One: It should be mounted in free space, away from any reflected surface to avoid frequency-related diffraction effects. Two: It should be mounted on a baffle to smooth and extend its response. By simply mounting the driver along the inside edge with the listener on the free field side, we obtain the best of both worlds.

**Genuine Oak Model.** Your speakers are finished with a natural oil and may be treated like any fine furniture. We suggest occasional cleaning/polishing with a fine furniture oil or cleaner such as Pledge. Also see the note below about getting wax or cleaner on the grille cloths.

**Black Lacquer Model.** The speaker panel is finished in high quality polyurethane acrylic enamel which is as durable as it is beautiful. The high gloss finish requires approximately four to six weeks to final cure. With proper care, the finish can be maintained almost indefinitely.

The finish is similar to that used on fine automobiles, and should be treated accordingly:
- Avoid prolonged exposure to direct sunlight. It may cause some pigment deterioration and may similarly affect the polyester grille cover cloth.
- To protect the finish during shipping, a coat of wax was applied. Using a soft cloth, rub the finish until it shines.
- Regular waxing with a good quality polishing wax, followed by handrubbing, will protect the finish and maximize the speaker’s luster. For heavier cleaning, use a mild detergent solution on a slightly damp cloth. Be careful not to let dirt scratch the finish. Re-wax after cleaning.
- We recommend using Original Endust and a soft cloth to keep your speakers looking new.

**NOTE:** Avoid getting wax on the grille cloth since it will stain the cloth. Place a straight-edge where the grille cloth and panel meet. This will avoid getting wax on the cloth. If wax does get on the cloth, most of it may be removed after 24 hours by brushing or vacuuming the front panel.

The speaker panel is constructed of high-density composite material which can be dented, gouged or chipped with sufficient pressure. Scratches and gouges, however can often be successfully removed. Use either a soft cloth or a commercially-designed cloth for all polishing, waxing and cleaning. Other materials may scratch the finish.

**Minor Blemishes and Scuff Marks**

- Use Meguiar’s #7 auto finish compound. Rub in a circular motion. Allow to penetrate a few minutes. Wipe off and buff with a clean, soft cloth. Then re-wax.
Deep Scratches and Blemishes That Have Not Penetrated the Bare Wood

- Use Dupont Rubbing Compound #7, available at auto supply stores. Rub a small amount of compound over and around the scratch or blemish until it is removed. The rubbing compound is abrasive and the gloss will be removed. This is normal.
- Next, use Dupont Polishing Compound #7 to polish around the scratch.
- Use Meguiar's #7 as discussed above. This will remove fine scratches caused by the polishing compound and restore luster.
- Bring a final high gloss using Original Endust or instant wax and shine compounds.

Deep Gouges or Scratches Which Have Exposed Bare Wood

- Vigorously rub out the scratched area using Dupont Rubbing Compound until the scratch is removed and the surrounding area is smooth. Allow compound to dry until a haze forms and wipe it off with a soft cloth. At this point, the rubbing compound will have removed the gloss from the damaged area.
- Thoroughly clean the scratch with alcohol or acetone. Allow one hour to dry. Do not use nail polish remover, because all brands contain oils.
- Carefully fill the scratch where wood is exposed with any good quality high gloss black fingernail polish. Allow 12 hours to dry.
- Lightly rub the area with Dupont Rubbing Compound as in Step 1. This will remove spill-over nail polish from the finish. The gouge or scratch should be invisible except for the contrast between the glossy nail polish and the hazy, rubbed-out panel.
- Restore gloss by rubbing out with Meguiar's #7.
- Apply auto wax and shine the panel.

Alternate Method for Restoring Deep Gouge That Has Exposed Bare Wood

- Clean area with alcohol or acetone.
- Use a high gloss touch up pen (Testor's or equivalent) to fill just the scratch itself.
- Apply Meguiar's #7 and buff to a high gloss using a soft cloth or polishing towel. This will render the defect almost invisible.

Protecting Your Loudspeakers

Your Platinum Edition Loudspeakers are protected with a 4-amp slo-blo fuse for the ribbons and a 4-amp slo-blo fuse for the woofers. This allows the full peak dynamic range to be expressed, yet provides the needed “safety valve” at lower power levels. The high thermal mass of the slo-blo type fuse prevents non-linear resistance changes with musical dynamics, thus completely preventing the fuse from introducing fuse-link-related distortion.

If the fuses should ever blow, replace them with the same size, type and rating only.

Service Assistance

We suggest that you read the LIMITED WARRANTY completely to fully understand your service coverage and its duration. You MUST promptly complete and return the WARRANTY REGISTRATION CARD to validate your LIMITED WARRANTY.

If your CARVER Amazing Loudspeakers should require service, we suggest you first contact the Dealer from whom you purchased your speakers. Should the Dealer be unable to take care of your needs, you may contact the CARVER Service Department by phoning (206) 778-6245, or by writing CARVER CORPORATION, Service Department, P.O. Box 1237, Lynnwood, WA 98046. We will then direct you to the nearest in our national network of Authorized Warranty Service Centers, or give you detailed instructions on how to return the product to use for prompt action.

We wish you many hours of musical enjoyment. If you should have questions or comments, please write to us at the above address.

We also invite you to consider more products in the CARVER family of quality stereo components.
Platinum Edition
Amazing Loudspeaker
Specifications
(Nominal)

Frequency Response: 22 Hz to 40 kHz -3.0 dB from reference
Impedance: Nominal 8 ohms
Sensitivity: 87 dB
Maximum SPL: 113 dB symphonic music power spectrum; 110 dB rock music power spectrum.
Crossover: Ribbon operates from 22 Hz to 40 kHz; subwoofer augments ribbon below 120 Hz
Recommended Power: Up to 750 watts per channel; 35 watts minimum
Shipping Weight: 110 lbs. each
Dimensions: 30" W x 10" D x 66" H

Appendix - Advanced Polarity and Balance Listening Test

The following test will confirm proper polarity of your system and match the output of both speakers.
1. Place your Platinum Edition Amazing Loudspeakers facing each other 2-3 feet apart.
2. Switch your preamplifier to MONO.
3. Play a recording which has plenty of deep bass such as an organ solo. Listen to the quality of the bass.
4. Switch the connections on one loudspeaker by disconnecting the conductors from the input terminals and reversing them. Again, listen to the quality of the bass. When polarity is incorrect, the bass will be noticeably weaker.
5. After determining correct polarity, again reverse the connections on one loudspeaker to the "wrong way".
6. Play the same piece of music with the preamplifier in MONO.
7. Rotate the BALANCE control until you reach a point where the signal almost disappears. At this point the output from both loudspeakers will be the same. In an ideal symmetrical listening set-up this should be the BALANCE setting which should be adopted for equal output from both speakers.
8. Change the connections on one speaker back to the correct polarity and set both loudspeakers up using the guidelines previously outlined in this manual.
THE CARVER AMAZING LOUDSPEAKER ELECTRONIC CONTROL SYSTEM

One of the design elements that makes your CARVER Amazing Lousspeakers unique, is the inclusion of the Electronic Control System (ECS). The ECS is an optional part of the speaker system, and allows you to adjust the balance of the speaker to your environment and personal taste.

Installation

The Loudspeaker Control System may be installed in a normal tape loop or external processor loop. It may also be installed just ahead of the power amplifier or between the pre-out and main-in jacks of many receivers. The actual choice is yours to make as a matter of convenience.

Installation Along with Graphic Equalizers, Surround Sound Systems, and Other Signal Enhancing Accessories

The Loudspeaker Control System (ECS) should be installed in a cascaded (series) fashion with the other equipment. It should be placed AHEAD of the other equipment in the chain.

BASS Q Control

Higher Q settings yield a warm, rich, rolling bass, whereas a lower Q setting results in a somewhat tighter, leaner bass. Environmental factors such as room size, carpeting, wall finish, the number of doors and windows, will affect bass response.

Adjust the BASS Q control to your taste, using recordings you are familiar with, and that have a natural bass sound.

HIGH FREQUENCY TRIM Control

As with bass response, environment will also affect high frequencies. Adjust the HIGH FREQUENCY TRIM using recordings you feel have a natural, smooth upper treble range, until you feel the response of the speaker is balanced and natural.

The function of other controls on the ECS, such as the SUB-BASS, GUNDRY PERSPECTIVE, and SONIC HOLOGRAM, are detailed in your owner's manual in Sections 5 and 6. For optimum performance of your Amazing Lousspeakers, they should always be used in conjunction with the ECS. If you already own CARVER components that feature Sonic Holography®, best performance and holographic effect will be achieved by using the hologram circuit built into the ECS module, as it has been designed specifically for the Amazing Lousspeakers.
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