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Book Descriptions:

carver c-9 sonic hologram generator manual

All files are provided under strict licence and reproduction without prior permission or for financial gain is strictly prohibited. If you have additional documentation please consider donating a copy to our free archive. Think of a wall straight out from your face perfectly separating the left and right channels with no crosstalk to the opposite ear, thus eliminating the smearing effect caused by your brain hearing L R locational sound being heard in the wrong ear. Carver Hologram generators basically do this electronically. The concept is a sound one, but hard to implement perfectly. Sonic Holography requires extreme care in speaker setup and a perfectly placed listening position, otherwise it does not work well and I think the biggest reason poor setup why the unit is unfairly criticized. BUT, when dialed in correctly, it can be overwhelming as to how well it presents the space in a recording; especially the reverb, decay, and ambiance in well done recordings. It also can throw audio all over the room emulating multi speaker setups. Sound can appear to come from outside, behind, or in front of the speakers. Sometimes it can mimic being in the middle of a studio surrounded by the musicians. This is dependent on the particular recording. Spacey trippy music such as Pink Floyds Dark side of the Moon is a blast when all the clocks go off a once. If the Hologram generator sounds bad on a particular recording, it can be simply switched out. Problem solved. Reviewed Dec 19th, 2016 by RTM Several things that Ive noticed about these things. Ive owned two versions. The ones integrated into Carvers preamps did not strike me as innovative in performance as the same circuit packaged in the outboard versions. Its much more subtle than other products of its time passive surround formats that were its chief competitors, for example. <https://fapobenas.com/assets/boss-rc-20xl-manual.xml>

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It is an electronic application of similar efforts made by Polk in their SDA speakers with regards to phase cancellation of unwanted signals in each channels counterpart. Its interesting and Musical. On minimalist true stereo recordings you can get some very pleasant effects. Its not essential, its just a nice alternative to have at your disposal. Mine didnt have spurious noise with the circuit out but the processing isnt totally silent. I use it for fun. Nothing wrong with fun, but it might not be the last word in unvarnished truth either. Comments To purchase C9 spares or accessories, please contact the company via their website or visit an authorised retailer. Designed by Bob Carver in the 80s, his Sonic Hologram Generator has been a feature in various Carver preamps at the time. The C9 is a stand alone unit that some have called his finest implementation of the technology. Whats that For example the sound from your LEFT speaker is heard by your LEFT ear. Inevitably some of this sound is also heard by your RIGHT ear slightly delayed, otherwise known as acoustical crosstalk. This can cause some anomalies in our perception of the sound. Headphone aficionados dont experience this crosstalk at all as you can imagine, which is one of the reasons people love the sound of headphones. The Sonic Hologram Generator does this by sending an inverted copy of the audio signal to the opposing speaker with amplitude and delay such that it actively cancels the crosstalk at your ear. This can create a similar effect to using headphones, only instead of the sound appearing only inside

your head as headphones do, the sound can appear in front of you anywhere in a 180 degree hemisphere. When implemented correctly, it sounds incredible. For a very detailed explanation you can read about it in the patent here. Simplified in the diagram below the Lr and Rl paths get nulled out by producing an inverted signal from the opposing speaker mixed in with the wanted direct sound paths Ll and

Rr. <http://www.geostudiastier.it/writable/public/userfiles/boss-rc-20-user-manual.xml>

Not all music lends itself to the effect. Speaker placement and listening position is critical. See the manual for more information. Upon receiving I opened it up to examine the inside and it looked really clean and in good condition. The power supply electrolytic capacitors showed no signs of distress and the rest of the caps are green polyester film types. I did clean the switches and RCA connectors with Deoxit D5 while it was apart. You can install this in series with any music source like a CD player or if your processor has an external tape loop connection you can use that. There are 2 sets of RCA connectors on the rear, in and out for the left and right. I might add a power switch to the front panel in the future. There are also some other switches for varying parameters to a degree. Listening Aperture can be set to narrow or wide and Injection Ratio can be set to normal or theoretical. This is the amount of crosstalk correction applied. Also note that you may use this device to encode the Sonic Holography signals into a recording itself for playback on a system without the hardware. There are a lot more 2channel recordings in the world to hear. Sure we have Dolby PL2x and DTSs Neo6 and many other processing modes that create multichannel surround from a 2channel source but properly dialed in stereo sounds good too. Add in a Sonic Hologram Generator and if your setup is just right you will swear there are speakers in places none exist. Thats magical! Share to Twitter Share to Facebook Share to Pinterest Powered by Blogger. It may not display this or other websites correctly. You should upgrade or use an alternative browser. This is the standalone unit not a full preamp. All it does is Sonic Holography. The noise goes away when the switch is in bypass mode. The noise is not hum or buzz. Just good oldfashioned hiss. Ive now tried hooking the C9 up to two different stereo systems occupying the same room.

In the first, its placed between the preamp and the power amp, which is Carvers recommended connection. The hiss is mostnoticeable in this case. In the second, I connect it in the tape monitor loop of a receiver, which is an alternate Carverrecommended connection. The hiss is much less noticeable in that case almost to the point of being acceptable. In both cases Im looking for the hiss when the source is paused ie. In the first case the hiss is even noticeable during quieter passages when the source is playing; in the second case so long as there is some music playing its enough that I dont notice the hiss. Are there any current or past Carver C9 owners out there that can share their own experience with this model. Has hiss been an issue. From my still limited listening to the C9, I must say that I am impressed and in some cases very impressed with its imaging enhancement effect. Enough so that Im willing to invest more in it, if I have confidence that the hiss can be removed. Anyhow, any and all input is welcome. JeffThis is the standalone unit not a full preamp. Anyhow, any and all input is welcome. Jeff Click to expand. You can also drive it louder with stepup transformers if your amp has adjustable volume or just turn down the amps volume or use an attenuator. Its got lots of obsolete but lownoise for the day opamps The pinout is different than most any other quad op amp. The significantly more expensive way is to use an upgrade adapter and modern lownoise audiophile duals like LM4562. Click to expand. Sonic Holography Magnetic field amp Auto correlator Asymmetrically charged coupler Still have a Silver Seven that Bob designed that requirers two power cords, one for each channel. Still sounds great. Click to expand. As much as I can tell its essentially neutral, volumewise, whether its inserted between preamp and power amp, or in the tape monitor loop.

Im only guessing, but in the case of the former between peamp and power amp the hiss increase is as much as 810dB between engaging and disengaging the holography circuit. Very similar to the

difference you might hear when engaging and disengaging a Dolby B circuit. Tomorrow I'm going to hook the C9 up to a completely different system, running in another room again between a preamp output and power amp input to see what amount of hiss shows up. [Click to expand.](#) Those units were made over 30 years ago, and electrolytic caps often will begin to dry out after as little as 20 years. You can also drive it louder with step-up transformers if your amp has adjustable volume or just turn down the amp's volume or use an attenuator. The significantly more expensive way is to use an upgrade adapter and modern low-noise audiophile duals like LM4562. [Click to expand.](#) Had the hiss issue not reared its ugly head, I'd probably be listening to the C9 with those Totems right now. [Click to expand.](#) Those units were made over 30 years ago, and electrolytic caps often will begin to dry out after as little as 20 years. [Click to expand.](#) According to NAD, its input sensitivity for rated power into 8 ohms is 700mV. I couldn't tell you how that stacks up relative to other amps. Is increased hiss a characteristic of old electrolytic caps when used in such devices? [Click to expand.](#) According to NAD, its input sensitivity for rated power into 8 ohms is 700mV. Is increased hiss a characteristic of old electrolytic caps when used in such devices. [Click to expand.](#) As far as whether the caps will cause hiss, this all depends on the application. If the power supply filters are on their way out, it is possible that these might not filter as much HF junk out of the AC as they previously did when these had less series resistance. [Click to expand.](#) Has hiss been an issue. [Click to expand.](#)

Or only with music playing? This morning I moved the C9 to the other system that I mentioned above, and was extremely pleased to note that the hiss problem has gone away. Without the circuit engaged there is dead silence as it was prior to the C9; with the circuit engaged, and with the volume level set to the highest level I'd ever want to listen to in that room, there is some hiss, but it is so faint that 23 feet away from a speaker I can't notice it. I can't tell if the circuit is engaged or not when I'm in the seating position. So how does it sound with music. Excellent! I've been sampling a variety of stereo DSD tracks and the difference with the C9 ranges from very good to outstanding. There's an amazing expansion in the lateral and depth soundstage. Not freakishly so; it seems very natural to me. I've tried some classic rock Boston, pop-rock America, jazz fusion Spyro Gyra, easy listening Henri Mancini. I'm concluding that the hiss issue in the system that I tried it with yesterday was an unfortunate combination of gain and efficiency that made it very noticeable, and that while there is some very small amount of hiss introduced now that's likely inherent to the C9's circuitry, it in no way affects the listening pleasure. Thanks again to everyone for their helpful posts. [Click to expand.](#) Used it with Denons, Yamaha and Sony midline-quality receivers. But, my hearing isn't quite what it was, and frankly, it wasn't what it was, when it was. It's not for the casual listener. It has spent months getting the speakers in the perfect location. It takes a lot of trial and error and determination. It also works better with some speakers than with others; it wasn't useful at all with my Klipschorns. It also doesn't work 100% with all recordings, in fact, it makes some recordings sound absolutely awful. Holography in any system. Just what I wanted. A much desired product by some with typical average Carver wiring. It's as if you are sitting in the middle of the band as they play.

You can pin point the location of individual instruments all around you, in front, left, right, even behind you. This same effect works on video when your TV volume output is hooked to your stereo system. It should be noted, the holographic effect cannot be realized unless you follow the set up instructions exactly, also this is a one person at a time experience, the sweet spot. To get the best effect, speakers that are designed to reflect sound off the walls do not work as well as standard front firing speakers. Verisign. To start viewing messages, I had some man cave system maintained. Easily reversible if not a good fit as it just inserts between the preamp and amp. Bass increased. Have read that others noticed that too. HF and detail APPEARS improved. Briefly tried the 2 adjustments, but sounded better not engaged. We'll see if that happens here, but FOR NOW it's fun. Many other companies followed with different techniques like BSS and BBE. The one I found acceptable was the BBE Sonic Maximiser which is still in production. I agree that there is a WOW at first time but it sucks after a while. Hjalmar Many other companies followed with different techniques like BSS and

BBE. I agree that there is a WOW at first time but it sucks after a while. Hjalmar No WOW factor, but it is a keeper. They dont have good effect on everything, but its easy to bypass and doesnt seem to degrade signal any. Extra Tabs by vBulletin Hispano. Weve just launched a dedicated AudioMart in Russia, UK Audio Mart. Completely recapped and upgraded with modern quieter semiconductors Opamps by my own hand so should be good for another 35 years at least. Functions great! Video of the full upgrade I did can be seen here If you are looking for a C9, then you are familiar with what this amazing little device does. Now, instead of flat, between the loudspeaker imaging associated with conventional stereo, Sonic Holography paints a sonic picture thats remarkably believable and convincing.

At times, sound even seems to come from outside the listening room. This sense of performance is heightened by a perceived depth, as well as width, of the sonic stage created by Sonic Holography. The ambiance or acoustic signature of a recordings location, which is vital to the sound of a live music event but masked during conventional stereo playback, is restored. Just the manual and the unit but that is all you really need. Prefer to sell locally but will ship at buyers expense to include packaging. Prefer cash or EMT. PayPal adds 4% to the cost. Buyer pays all shipping costs. Check out my other builds and upgrades listed here on CAM as well. You will see that I only do quality pieces and painstakingly do the best work I can for each item. Interesting trades considered Looking for a good quality Stereo preamp with phono inputs.;. This is a very nice looking piece with an LED display. It is in Excellent cosmetic condition. There are no blemishes that I can see on the face or case. It is a very attractive piece. The manual is included. Please see the photos and feel free to email me with any questions you may have. With BIN you DONT have to WAIT for the auction to END. The BUYITNOW option is removed after the first bid is placed. The BIN opportunity will soon GO AWAY, so if you WANT it, be the first to hit that button. Shipping insurance is included. Shipping is via FedEx, UPS or USPS. I do not add for handling, materials, labor, transport or any of my other substantial shipping costs. The calculator is not infallible. If the calculated shipping seems too high to you, please send an email. WILL SHIP WORLDWIDE For shipping quotes not calculated, please send an email with your postal code BEFORE bidding. International buyers, please note Import duties, taxes and charges are not included in the item price or shipping charges. Many sell quickly as I always offer a fair BUYITNOW price.

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electronic items are unpredictable. It is being sold ASIS.

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Koszonettel,Az AKAI 4000DS MKII orsos magnomon a savvalasztó kapcsoló nem működik megfelelően.A rajz szerint a lejátszó erosito sztereo allasban megfelelően kapja meg a fejek jelet, de 14 allasban es 32 allasban szerintem a rajz hibás. A rajzot en ugy ertelmeztem, hogy 14 allasban ugyanugy sztereo uzemmodban mukodik, mint kozepallasban, 32 allasban pedig szinten sztereo, de a ket oldal fel van cserelve. Az en magnomnal sajnos ugyanez tortenik. Azt hiszem, hogy az elozo tulajdonos javította ezt a savvaltó kapcsolót, es eszerint a rajz szerint kototte vissza. Segitsegeteket kerem, hogy jól látom a problémát, illetve hogyan kell ezt a kapcsolót helyesen bekötni A rajzUdv, kben Similar manuals You can write in English language into the forum not only in Hungarian. The integrated chip, for better or worse, became the standard piece on the motherboard. To some, this was the point at which audio began what they believe was the death spiral. To others, the IC allowed the industry to try new things. One area in which many saw potential was the area of sound shaping. Up to this time, audio fans were pretty much limited to the “advanced” controls of the equalizer. A new term sprung up, sonic holography, the idea that two speakers could, in fact, create a threedimensional sound spot somewhere in front of the speakers. A couple of approaches to this concept sprung forth. Matthew Polk believed that using actual signals from the speakers to cancel out crosstalk was the way to go. He brought his ideas to life in his SDA speaker series. While an audio source is recorded by a microphone, the membrane that picks up sound vibrations moves towards and away from the source. This results in a doppler shift that is preserved in the recording. When that recording is played through a speaker, the cone vibrates back and forth in order to move air particles and create sound.

This introduces a second doppler shift, especially when the same cone is producing multiple frequencies at the same time. Both instances of doppler distortion degrade the overall quality of the output. Sonic holography attempts to remove these distortions using a proprietary filter designed by Bob Carver. The younger audio crowd including myself had a more open mind about the process. In the 1980s, I looked at the end result rather than the journey of an audio signal. With that statement in mind, during a long winter in Cheyenne, Wyoming, I managed to acquire a C9. It was my way of having SDA technology while keeping my Polk Monitor 10's. In thinking back twentyone years, I

remember that not every album or cd sounded better. But the C9 did change the sound. With not a lot else to do in Cheyenne after work on weeknights, I quickly went thru my music collection and memorized which albums to engage the sonic holography. Typical of Cheyenne, it was a long and windy winter and I had experimented with the C9 quite a bit. With that suggestion in mind, I began watching eBay and Craigslist. Last month my vigilance paid off. Even better, it came from just 100 miles away. Its dimensions and light weight make it a bit awkward for those who employ heavy RCA interconnects, as in certain setups it can actually tip the front side of the C9 upwards. This shouldn't give the impression that the C9 is flimsy. In reality, the steel gauge is quite substantial, with very little flex once the top is removed. To the right of center, is a small red power LED. The backside consists of two pairs of RCA jacks, one pair each for input and output. On the far left is a power cord and a switched outlet. What little Internet information was available did remind me that for the C9 to work best, the speakers need to be only 6 feet apart, with a slight toe in, and well away from any walls. I started my demo cd with all three buttons in the out position.

About thirty seconds into the initial track I engaged the sonic hologram. The difference was obvious, the music came from a wider point, but also I heard the faint sonics of music coming from a well. I pulled the speakers out another 68 inches from the back wall. I also went and grabbed a dining room chair which placed me about 3 feet closer to the speakers. That helped a little, but I was still frustrated. A thirtyfiveyearold recording had a new life. Playing it a second time through, I set the aperture to "wide." Big mistake, the sound became almost warped, for lack of better wording. I quickly went back to "narrow" and sonic bliss returned. The sound became rather similar to a distant echo. Once again, I returned that switch to its original position. At least I now knew the sonic limits, based on my room environment and equipment. Older rock music was by far the most enjoyable. Light rock was very hit and miss, to the point that different tracks on recordings were either pleasant or plain awful. Classical was the most disappointing only two passages from a sampler disc were worth listening to. Therefore, if you're a fan of classic hard and arena rock from the 1970's, the C9 may just be an enjoyable addition to your system. Was fascinated by it 25 yrs ago, and forgot about it. Then couldn't remember who made it. Thought it was Harman Kardon but nothing showed up. Figured it out and now I'm awaiting its delivery. Your article was great. Hope Brian Auger sounds good on the C9! I bought it new back in I think 1981 or '82. I think you nailed it, it's a nice toy to tinker with, and it CAN make some otherwise bland recordings come to life works wonders on Best of the Doobies, Black Water. But other than just a play thing, it's just a bit of nostalgia that I never got rid of. This is because s.h. basically reverses the transform that occurs when you record under those conditions. Binaural recordings sound best.

The sonic effect is amazing, if albeit limited in seating locations between the speakers. I have a home theater system where the front left and right speakers are processed through Sonic Holography and the audio cues are so realistic that I once looked over my shoulder in the middle of a horror movie because I swore somebody was opening the door behind me! LOL I watched the original Predator with this and perceived rustling in the bushes from outside the room boundaries. It is a shame Bob's technology didn't take off. I've had the C1, two Carver 450 for my ADS 1530s. I've had this set up since 1982. I recently refinished my basement and have my speakers on the long wall. Also followed Bob's original detailed notes on setting up the environment. Huge difference. Recommend taking a listen to Strawberry Fields and the string section will stand out beautifully. Agree with The Who stuff. For a real treat, check out Kind of Blue. Was never able to set up speakers per the instructions. A marker of practicality on the room available. Still, the effect was evident with bookshelf speaker actually on a bookshelf and last of books crammed around them. This made them sort of flush with a sort of irregular wall, i.e. A situation that tends to break up reflections. Later I used it with Magnepans and got spectacular results usually. I suspect any dipole speaker electrostatics or LinkwitzLab would get similar results. The common thread is to diminish side reflections I think. Me I'll spice up life with an equalizer, and tone controls for my music and some hot sauce in my soup! I

have been searching for some new music to listen to, that's how I wound up here. Santana Abraxis is prolly the best entire cd besides Pink Floyd, Dark Side of the Moon. Weve just launched a dedicated AudioMart in Russia, UK Audio Mart. For details please read this FAQ entry. It applies an out of phase signal to the opposite channel to cancel crosstalk making the image more precise and deeper.

The effect can be quite dramatic on certain music, particularly live recordings of rock, jazz, and classical. I have two of these units and this one was in a second system that I have now dismantled. The other one is set up in my main stereo system and I use it regularly. It's a fun piece of gear for not a lot of money. The front panel is in good shape and shows no scratches or dings. The top left side has a scratch in the corner and the sides show some scratches and scuffing. All of the rubber feet are intact. I have tried to get the best photos I can but please feel free to ask any questions. The owner's manual is very important. It goes into good detail about setting up your system for optimum imaging with and without using the sonic holography generator. If you follow the instructions on setting up your speakers you will get better imaging even without engaging the C9. The manual available on Carver's website is poor quality so I'm including a high quality photo copy of the original manual I have for my other unit. I'm also including a copy of the sales brochure for the C9. There are a lot of tweaks that have barely discernible audio effects but this little unit really does something. Its not something you will use all the time but it is a fun processor to have in your system. Im pricing this conservatively due to the condition but the faceplate looks good. Ill ship via FedEx. Ill be glad to answer any questions. Please login or register here. Please contact them to ask about shipping. I dont know a whole lot about it, but I hooked it up and the indicator light comes on and it does seem to affect the sound somewhat so I presume its working. In in quite nice cosmetic shape. Note that it has rack ears. I know that its not an equalizer per se, but thats the closest Reverb category I could find. All others please inquire in advance. Free pickup in central New Jersey. Items must be returned in original, asshipped condition with all original packaging.