

MXL R144

MXL R144 Multi-Purpose Ribbon Microphone User Manual

Comprehensive instructions for setup, operation, and maintenance of your MXL R144 Ribbon Microphone.

1. INTRODUCTION

The MXL R144 is a multi-purpose ribbon microphone designed for high-quality audio capture. It features a Figure-8 polar pattern and a 1.8-micron aluminum ribbon, making it suitable for vocal and instrument recordings, as well as broadcast applications. Its design allows for excellent performance on acoustic instruments, strings, and horns, offering high Sound Pressure Level (SPL) capability, effective side rejection, and precise directivity.

Key features include:

- Classic ribbon sound with a rich, smooth midrange.
- Figure-8 polar pattern for natural instrument and room sound capture.
- High SPL capability, suitable for horns and electric guitars.
- Compact design for easy microphone placement.
- Expands the tonal palette of your sound recordings.



Figure 1: The MXL R144 Multi-Purpose Ribbon Microphone with its included shockmount. The microphone features a purple body and a silver grille.

2. SETUP

Proper setup is crucial for optimal performance and longevity of your ribbon microphone. The MXL R144 is a passive ribbon microphone and does not require phantom power. Applying phantom power to a passive ribbon microphone can potentially damage the ribbon element, especially if there is a wiring fault in the cable or connector. Always ensure phantom power is OFF before connecting or disconnecting the microphone.

1. Mounting the Microphone:

Attach the MXL R144 to the included shockmount. The shockmount helps to isolate the microphone from vibrations and handling noise. Secure the shockmount to a sturdy microphone stand.

2. Connecting to an Audio Interface/Mixer:

Use a high-quality XLR cable to connect the microphone to an audio interface or mixer. Ensure that the audio interface or mixer's phantom power is **disabled** before making the connection. Ribbon microphones typically have a lower output level compared to condenser microphones, so a preamplifier with sufficient clean gain is recommended.

3. Gain Staging:

Adjust the gain on your preamplifier or mixer to achieve an appropriate signal level. Monitor your input levels to prevent clipping while ensuring a strong signal-to-noise ratio.

3. OPERATING INSTRUCTIONS

The MXL R144 features a bidirectional (Figure-8) polar pattern, meaning it picks up sound equally from the front and rear of the microphone, while rejecting sound from the sides. This characteristic offers unique recording possibilities.

- **Microphone Placement:**

Due to its Figure-8 pattern, the R144 is excellent for capturing two sources simultaneously (e.g., two vocalists facing each other) or for recording a source along with the natural room ambiance.

Positioning the microphone with its sides facing unwanted sound sources will help in rejecting them.

- **Suitable Applications:**

This microphone is versatile and performs well on:

- **Vocals:** Provides a smooth, warm tone. Experiment with distance for proximity effect.
- **Acoustic Instruments:** Captures the natural resonance of guitars, strings, and woodwinds.
- **Electric Guitars/Horns:** Its high SPL capability allows for close miking of loud sources without distortion.
- **Drum Overheads/Room Mics:** Can add a unique character to drum recordings by capturing both direct sound and room reflections.

- **Proximity Effect:**

Like most directional microphones, the R144 exhibits proximity effect, meaning bass response increases as the microphone is moved closer to the sound source. Utilize this effect creatively to add warmth or fullness to recordings.

4. MAINTENANCE

Ribbon microphones are delicate instruments. Proper care and handling will ensure their longevity and performance.

- **Handling:**

Avoid dropping or subjecting the microphone to strong impacts, as this can damage the delicate ribbon element. Do not expose the microphone to strong blasts of air (e.g., blowing directly into it), as this can stretch or tear the ribbon.

- **Storage:**

When not in use, store the MXL R144 in its protective case to shield it from dust, moisture, and physical damage. Store it vertically if possible, to prevent the ribbon from sagging over time.

- **Cleaning:**

Clean the exterior of the microphone with a soft, dry cloth. Do not use liquid cleaners or solvents, as these can damage the finish or internal components.

- **Phantom Power:**

As a passive ribbon microphone, the MXL R144 does not require phantom power. Ensure phantom power is always turned OFF on your preamplifier or mixer before connecting or disconnecting the microphone. Accidental application of phantom power, especially with faulty cables, can damage the ribbon.

5. TROUBLESHOOTING

If you encounter issues with your MXL R144, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Sound or Very Low Output	- Incorrect gain setting on preamplifier. - Faulty XLR cable. - Preamplifier input not selected. - Damaged ribbon element.	- Increase preamplifier gain. Ribbon mics require more gain than condenser mics. - Test with a different XLR cable. - Ensure the correct input is selected on your audio interface/mixer. - Gently test the ribbon by lightly breathing on each side; listen for rattling. If rattling occurs, the ribbon may be damaged and require professional service.
Distorted Sound	- Input signal too hot (clipping). - Damaged ribbon element.	- Reduce preamplifier gain. - Check ribbon for damage as described above.
Unwanted Noise/Hum	- Ground loop issue. - Interference from electronic devices. - Faulty cable.	- Ensure all audio equipment is properly grounded. - Move microphone and cables away from power supplies, monitors, and other electronics. - Test with a different XLR cable.

If problems persist, contact MXL customer support or a qualified service technician.

6. SPECIFICATIONS

Feature	Detail
Model Name	MXL R144 Ribbon Microphone
Polar Pattern	Bidirectional (Figure-8)
Ribbon Element	1.8-micron aluminum ribbon
Frequency Response	20 Hz - 20 kHz
Sensitivity	-56 dBV/Pa (approx.)
Impedance	250 Ohm
Signal-to-Noise Ratio	76 dB

Feature	Detail
Max SPL	>130 dB
Connectivity	XLR
Material	Metal
Color	Purple
Dimensions (L x W x H)	12 x 4 x 8 inches (Product Dimensions)
Item Weight	1.54 pounds (0.7 kg)
Included Components	Microphone, Shockmount

7. WARRANTY AND SUPPORT

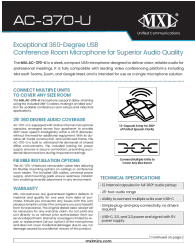
The MXL R144 Ribbon Microphone typically comes with a manufacturer's warranty. Users can register their microphone on the official MXL website to activate a 2-year warranty protection.

For technical support, service, or warranty claims, please visit the official MXL website or contact their customer service department directly. Ensure you have your product model number (R144) and proof of purchase available when seeking support.

Manufacturer: Marshall Electronics

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Related Documents - R144

	MXL Mic Mate Pro User Manual Portable USB Audio Interface User manual for the MXL Mic Mate Pro, a portable USB audio interface and microphone preamp. Learn about its features, setup for Windows and macOS, and recording tips for professional-quality audio on the go. Includes 48V phantom power, zero-latency monitoring, and adjustable gain and headphone controls.
	MXL AC-370-U: 360-Degree USB Conference Room Microphone for Superior Audio Quality The MXL AC-370-U is a compact, professional USB microphone designed for clear, reliable audio in conference rooms. It features 360-degree audio coverage, plug-and-play setup, and daisy-chaining capabilities for scalable audio solutions.
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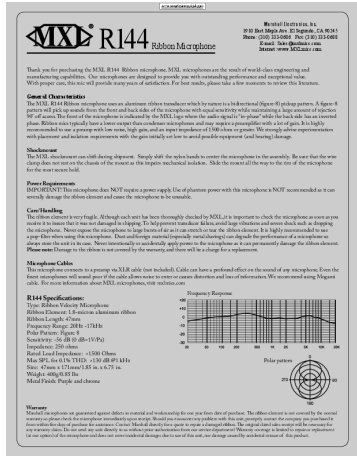
Detailed information about the MXL V67GS, a versatile solid-state vocal microphone, including its features, included accessories, and technical specifications. Ideal for vocals, instruments, R&B, rock, country, and hip-hop.



Detailed information on the MXL AC-40EXT, a USB gooseneck extension microphone designed for web conferencing, featuring a flexible neck, individual mute button, and simple connection for multiple users.



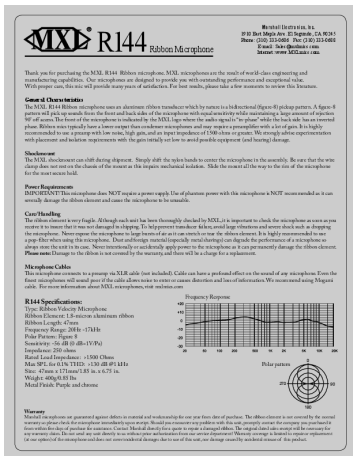
This user manual provides detailed instructions for installing and configuring the AIM MXL Plug&Play kit for Suzuki GSX-R K3 motorcycles. It covers kit contents, step-by-step installation procedures, software setup using Race Studio 2, gear calibration, TPS sensor configuration, channel mapping, and optional expansions. Essential for users seeking to enhance their motorcycle's data acquisition and performance monitoring capabilities.



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See MXL R144 Manual Specs Ribbon Microphone Specifications markertek Attachments |||

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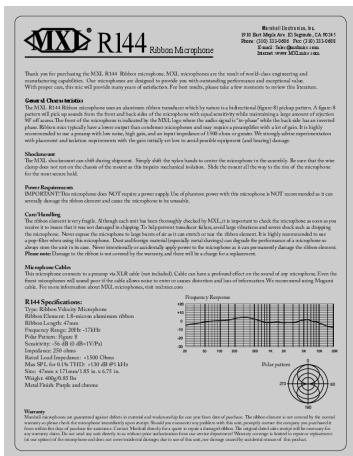
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Intelligence Polar Patterns

Intelligence is the key to success. You have the microphone and now you need to know how to use it. The following charts will help you understand the capabilities of your MXL 770X.

Cardioid

The cardioid pattern enables you to isolate an audio source from the background. It is the best for recording vocals from the front of the microphone. It also provides a degree of isolation from the sides and rear. The cardioid pattern is the most common pattern used in recording studios.

Figure 8

The figure 8 pattern enables you to isolate an audio source from the front and rear of the microphone. It is the best for recording vocals from the front and rear of the microphone. It also provides a degree of isolation from the sides. The figure 8 pattern is the most common pattern used in recording studios.

Stereo

The stereo pattern enables you to isolate an audio source from the front and rear of the microphone. It is the best for recording vocals from the front and rear of the microphone. It also provides a degree of isolation from the sides. The stereo pattern is the most common pattern used in recording studios.

Omnidirectional

The omnidirectional pattern enables you to isolate an audio source from all directions. It is the best for recording vocals from all directions. It also provides a degree of isolation from the sides. The omnidirectional pattern is the most common pattern used in recording studios.

Shotgun

The shotgun pattern enables you to isolate an audio source from the front of the microphone. It is the best for recording vocals from the front of the microphone. It also provides a degree of isolation from the sides and rear. The shotgun pattern is the most common pattern used in recording studios.

MXL 770X

Multi-Pattern
Condenser Microphone Kit

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KOMPAKTTEST BNDCHENMIKROFON MXL **R144** Frostschutzmittel Wer sich klanglich nach wohliger Wärme sehnt, sollte wenigstens ein Bndchenmikrofon besitzen

zum Beispiel das neue, kostengünstige **R144** von MXL. Von Harald Wittig Das amerikanische Unternehmen Marshall Electronics hat sich mit seinen MXL-Mi...
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Selectable Polar Patterns The polar pattern of the microphone indicates how the microphone has been ... d familiarize yourself with proper operation and care of this microphone. Contents Unpack your MXL **R144** Microphone package carefully and verify that all of the following items are included: 770X Mi...

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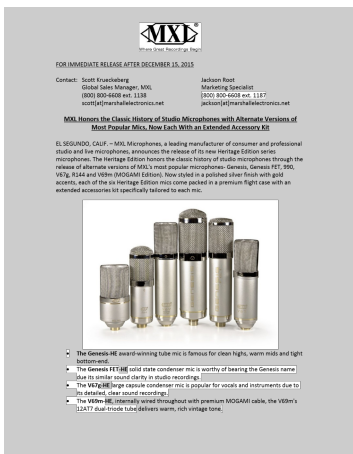
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Warranty MXL microphones are guaranteed against defects in materials and workmanship for one year fr ... ncidental damages due to use of this unit, nor damage caused by accidental misuse of this product. **R144** A Division of Marshall Electronics 310-333-0606 800-800-6608 Fax: 310-333-0688 www.mxlmscs.c...

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FOR IMMEDIATE RELEASE AFTER DECEMBER 15, 2015 Contact: Scott Krueckeberg Global Sales Manager, MXL ... e release of alternate versions of MXL s most popular microphones- Genesis, Genesis FET, 990, V67g, **R144** and V69m MOGAMI Edition . Now styled in a polished silver finish with gold accents, each of th...

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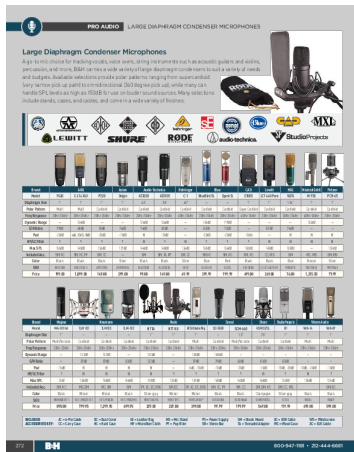
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MXL MiCROPhOnES MarkertekA large dual diaphragm version of our legendary V67G the V67i The V88s is a small profile multi purpose microphone with fixed cardioid patternIBOOSTER Specificationsmarkertek Attachments Specifications IBOOSTER srsltid AfmBOooGeaXVDn0GU r3e14PcKUZ2r5NqZ4jJo9BRzNzbzjBTv9b9 v9 MarkertekMXL patternThis all tube condenser elevates any recording it has warm vintage sound that uplifts both vocals and instruments rich detail IBOOSTER SpecificationsIBOOSTER v9markertek AfmBOooF rt755nvCzM8jUL2Niu HbWA79y39AM0hiXMZCGXi hK3rRO MarkertekUntitledA hK3rROmarkertek AfmBOopeDR4WparkXCKHzgl uRD1OaBrXChYr1QVE5KHpCSJRzSooKGo MarkertekUntitledUntitledA AfmBOorBuJAdRrQKQ74nJX75Hf01qWPvqeLb6YRLzvKnAIBjHTUzf Qsmarkertek MarkertekUntitledUntitledUntitledA AfmBOooleMsWS6x11AVZ51M0jG2i zpkGYMQHxT0TcyfEmZYB3T8YAVKmarkertek MarkertekUntitledUntitledUntitledUntitledA AfmBOorFIRpL xZ8VB0WThFrrio15P5GMbQMSVqjjJ1CtyFz2cf KfYUmarkertek MarkertekUntitledUntitledUntitledUntitledUntitledA AfmBOoqZGe7z6xcLDIc9KBSuY ER6h6g rM KuVDO515Zkt8xOT3qMoqmarkertek MarkertekUntitledUntitledUntitledUntitledUntitledA uRD1OaBrXChYr1QVE5KHpCSJRzSooKGomarkertek AfmBOooicCU fLzNbkLUqS9E0xdCA49tTkqvppP3c IRRsHcRBySuYcP MarkertekUntitledUntitledUntitledUntitledUntitledUntitledUntitledA IRRsHcRBySuYcPmarkertek AfmBOorutraheC1ArPrsPmrFTsYuEl4vYbbwsyioaVROs ZwJcNj3JJ MarkertekUntitledUntitledUntitledUntitledUntitledUntitledUntitledUntitledA ZwJcNj3JJmarkertek AfmBOoqkU0thlNgVzfsLoyzo jSPX9qQL8eB6GruzNTWHT yWJsP7Q7N MarkertekUntitledUntitledUntitledUntitledUntitledUntitledUntitledUntitledA yWJsP7Q7Nmarkertek AfmBOop9d9sK4KvNLsK 7hT5dNK Qn680INsAi uHCxobh4J1rmzrjU8 MarkertekUntitledUntitledUntitledUntitledUntitledUntitledUntitledUntitledA uHCxobh4J1rmzrjU8markertek AfmBOoqDbWSH tHF04Q9h902ttBRioO2yucKY0gD8Aa4zqAdfUHya4os |||

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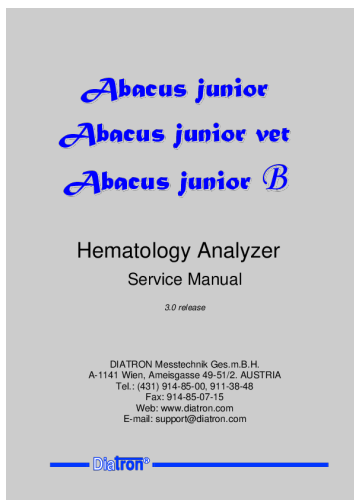
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[Professional Audio Equipment Catalog: Microphones, Cables, Interfaces, and More](#)

A comprehensive catalog showcasing a wide range of professional audio gear, including microphones, cables, audio interfaces, studio monitors, accessories, and software from leading brands.

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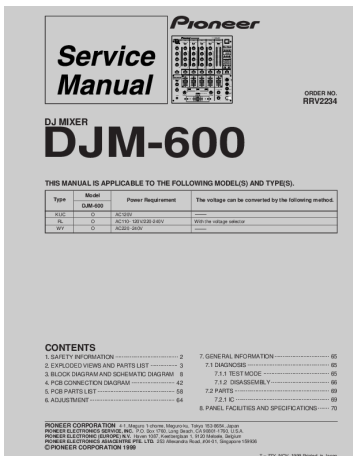


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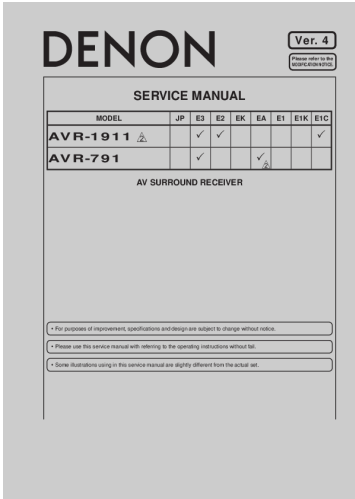
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[BSW 2011 Broadcast Equipment Catalog - Audio Consoles, Microphones, Studio Gear](#)

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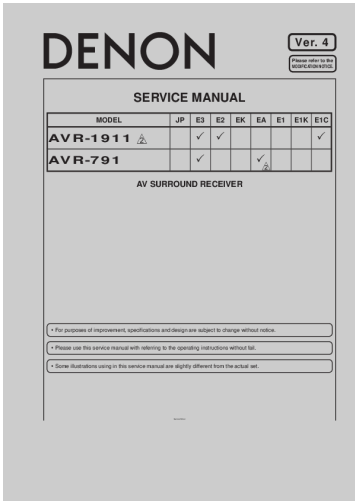
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[DENON AVR-1911 / AVR-791 Service Manual](#)

Official service manual for DENON AVR-1911 and AVR-791 AV Surround Receivers. This comprehensive guide includes safety precautions, technical specifications, detailed disassembly procedures, troubleshooting steps, and circuit diagrams for servicing these DENON audio-visual products.

lang:en score:14 filesize: 22.31 M page_count: 147 document date: 2013-08-19

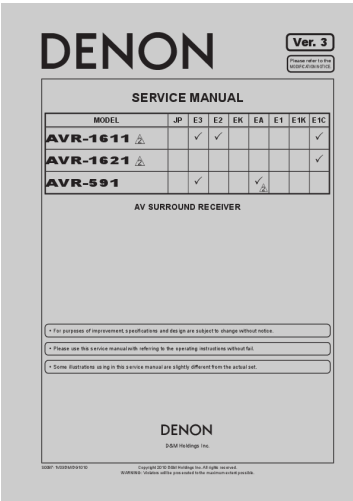


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lang:en score:14 filesize: 23.22 M page_count: 147 document date: 2023-09-18



[DENON AVR-1611, AVR-1621, AVR-591 Service Manual](#)

Official service manual for DENON AVR-1611, AVR-1621, and AVR-591 AV Surround Receivers. Contains technical specifications, disassembly, troubleshooting, and schematics.

lang:en score:14 filesize: 20.69 M page_count: 144 document date: 2010-10-04

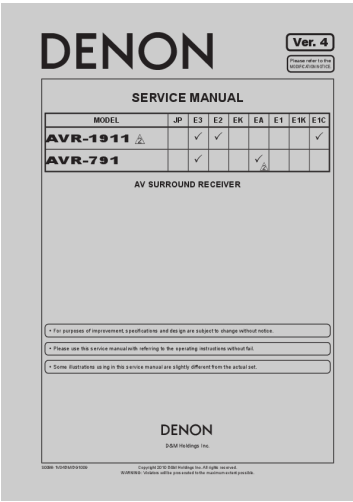


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Marantz Service Manual SR5006 V4 bulletin qualifi au s3 amazonaws |||

Service Manual SR5006 /U1B,K1Bs N1SGs,N1Bs AV Surround Receiver For purposes of improvement, spec ... 22 IC4 R32 C38 R23 C40 R159 R160 R157 R158 R150 R155 R149 R154 R151 R152 R153 R148 R147 R146 R145 **R144** R142 R141 R140 R139 C334 R133 C12 C339 FB32 TR2 C13 R2 R1 C48 FB9 FB10 C22 C52 R36 R35 ...

lang:en score:14 filesize: 42 M page_count: 194 document date: 2011-11-28



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AVR1911 AVR791 E3E2E1C SM V04 bulletin qualifi au s3 amazonaws Denon Home Theatre Amps Service Manual |||

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lang:en score:13 filesize: 23.13 M page_count: 147 document date: 2010-10-04



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Marantz Service Manual NR1601 V4 bulletin qualifi au s3 amazonaws |||

Service Manual NR1601 /N1SG/N1B/U1B Integrated Amplifier For purposes of improvement, specificati ... 120 D C Sec. R124 MAINPOWER C124 C125 R123 D5.2V DGND C111 C110 R106 C118 R121 R114 R126 **R144** R120 R108 R109 EC CA A R118 Pri. Sec. B C116 C113 1 A 12 11 10 9 8 7 6 5 4 3...

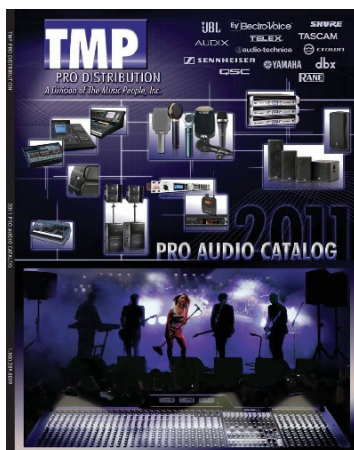
lang:en **score:13** filesize: 34.03 M page_count: 146 document date: 2011-10-27



[Marantz SR6005 AV Surround Receiver Service Manual](#)

This service manual provides detailed technical specifications, disassembly instructions, safety precautions, and parts ordering information for the Marantz SR6005 AV Surround Receiver.

lang:en **score:13** filesize: 26.78 M page_count: 189 document date: 2010-11-01



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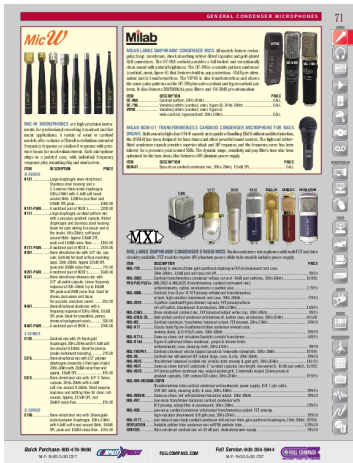
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lang:en **score:13** filesize: 2.88 M page_count: 6 document date: 2011-03-21



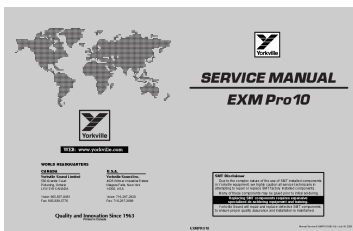
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D72QxtJFN5TvqVTBDot oQkAVhuE |||

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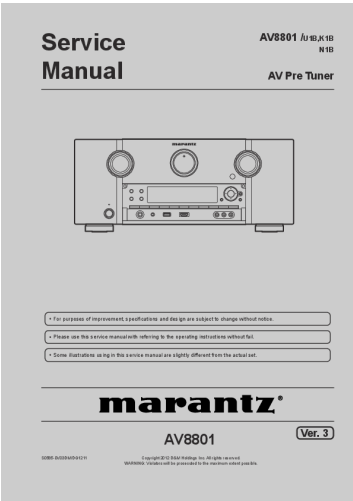
lang:en **score:13** filesize: 2.88 M page_count: 6 document date: 2011-03-21



[Yorkville EXM Pro10 Service Manual](#)

This service manual provides detailed information for the Yorkville EXM Pro10 powered loudspeaker, including specifications, block diagrams, parts lists, and troubleshooting guidance.

lang:en **score:12** filesize: 3.6 M page_count: 29 document date: 2025-07-16

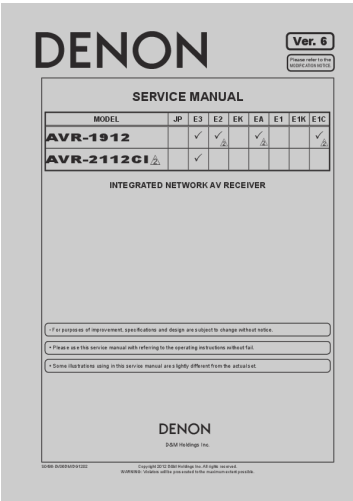


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Marantz Service Manual AV8801 V3 bulletin qualifi au s3 amazonaws |||

Service Manual AV8801 /U1B,K1B N1B AV Pre Tuner For purposes of improvement, specifications and d ... LL11441123 C6 C1469 C1470 C1508 C1446 R1459 R1460 CC1C51125C593130C411541C510R510CR461414644178**R1447** DDD111444000678 D1412 Y CB CR V 5V R1RR01120021274 R1RR02110503218 R1033 RR11003369 N1...

lang:en score:12 filesize: 74.43 M page_count: 268 document date: 2012-11-08

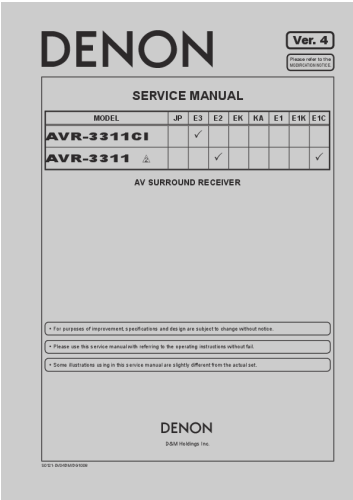


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AVR1912ALL SM V06 bulletin qualifi au s3 amazonaws Denon Home Theatre Amps AVR1912 Service Manual |||

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lang:en score:12 filesize: 41.35 M page_count: 196 document date: 2012-02-02



[Denon AVR-3311CI & AVR-3311 AV Surround Receiver Service Manual](#)

This comprehensive Denon Service Manual details the technical specifications, maintenance procedures, and troubleshooting steps for the Denon AVR-3311CI and Denon AVR-3311 AV Surround Receivers. It is an essential resource for qualified technicians, covering safety precautions, component-level diagnostics, and repair guidance.

lang:en score:12 filesize: 13.69 M page_count: 216 document date: 2015-10-12



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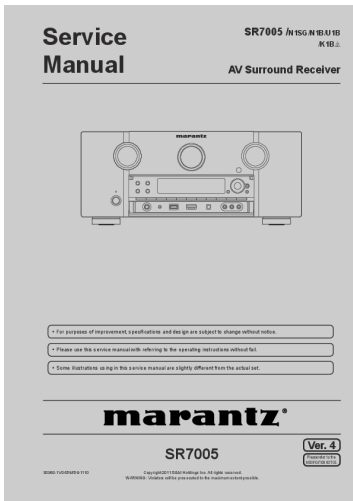
lang:en score:12 filesize: 11.88 M page_count: 88 document date: 2013-04-30



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lang:en score:12 filesize: 14.18 M page_count: 88 document date: 2011-10-24

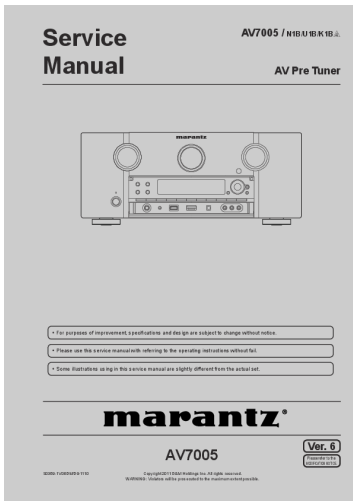


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Marantz Service Manual SR7005 V4 bulletin qualifi au s3 amazonaws |||

Service Manual SR7005 /N1SG/N1B/U1B /K1Bs AV Surround Receiver For purposes of improvement, speci ... C C C56 Sec. R124 MAINPOWER C124 C125 R123 D5.2V DGND C111 C110 R106 C118 R121 R114 R126 **R144** R120 R108 R109 EC CA A R118 Pri. Sec. B B C86 C87 C88 C116 C113 A A 12 11 10 ...

lang:en score:12 filesize: 22.79 M page_count: 206 document date: 2011-10-18

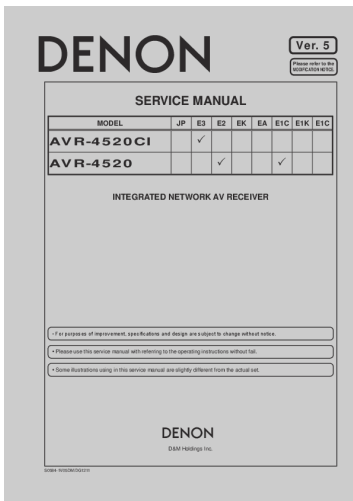


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Marantz Service Manual AV7005 V6 bulletin qualifi au s3 amazonaws |||

Service Manual AV7005 / N1B/U1B/K1Bf AV Pre Tuner For purposes of improvement, specifications and ... 120 D C Sec. R124 MAINPOWER C124 C125 R123 D5.2V DGND C111 C110 R106 C118 R121 R114 R126 **R144** R120 R108 R109 EC CA A R118 Pri. Sec. B C116 C113 1 A 12 11 10 9 8 7 6 5 4 3...

lang:en **score:12** filesize: 22.78 M page_count: 200 document date: 2011-10-18

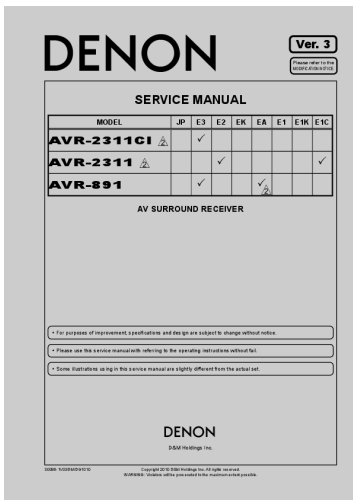


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SERVICE MANUAL image Read the following information before using service manual What you can do with this Jump to target of a schematic diagram connector 04327891 6d1b 4574 8bcc 6e32638442c7 hfe denon avr 4520 452 ci en 1 f01 justanswer proaudio2016

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lang:en **score:12** filesize: 17.29 M page_count: 281 document date: 2015-05-17

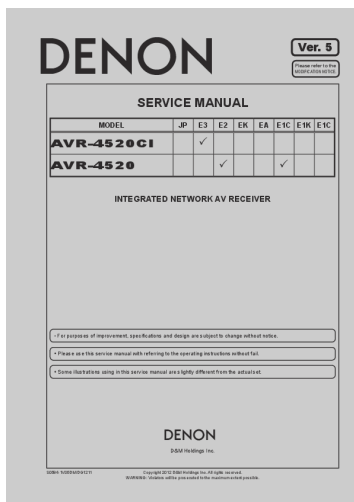


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AVR2311CIE3 SM V03 bulletin qualifi au s3 amazonaws Denon Home Theatre Amps AVR891 Service Manual |||

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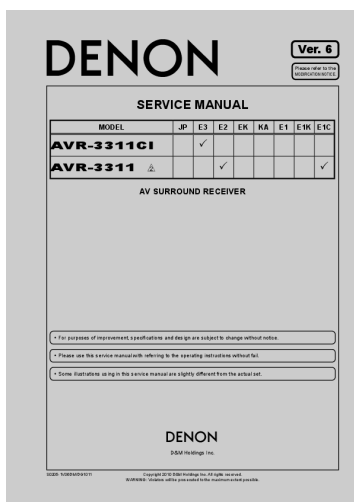
lang:en **score:11** filesize: 19.19 M page_count: 207 document date: 2010-10-08



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AVR4520ALL SM V05 bulletin qualifi au s3 amazonaws Denon Home Theatre Amps AVR4520 Service Manual |||

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AVR3311CIE3 SM V06 bulletin qualifi au s3 amazonaws Denon Home Theatre Amps AVR3311 Service Manual |||

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lang:es score:11 filesize: 13.32 M page count: 88 document date: 2013-10-18