

MFJ MFJ-986

MFJ-986 3KW Roller Tuner, SWR Meter, 1.8-30 MHz User Manual

Model: MFJ-986

1. INTRODUCTION

This manual provides comprehensive instructions for the setup, operation, and maintenance of the MFJ-986 3KW Roller Tuner. The MFJ-986 is designed to match a wide range of impedances to your transceiver, ensuring efficient power transfer and minimizing Standing Wave Ratio (SWR) across the 1.8 to 30 MHz frequency spectrum.

2. SAFETY INFORMATION

- Always disconnect power from your transceiver and antenna system before making any connections or adjustments to the tuner.
- Never operate the tuner with damaged cables or connectors.
- Ensure proper grounding of your station equipment, including the tuner, to prevent electrical shock and minimize RF interference.
- Do not exceed the maximum power rating of 3KW PEP SSB input (1500 Watts PEP SSB output) to prevent damage to the tuner or connected equipment.
- Avoid touching antenna connections during transmission. High RF voltages can be present.

3. PRODUCT OVERVIEW

The MFJ-986 is a robust Differential-T Tuner featuring a unique differential capacitor design for simplified tuning. It incorporates an AirCore Roller Inductor for precise inductance control and a lighted Cross-Needle meter for simultaneous SWR, forward, and reflected power readings.



Figure 1: MFJ-986 Front Panel Layout

This image displays the front panel of the MFJ-986 tuner. Key components include the SWR/Wattmeter on the left, the Differential Capacitance tuning knob in the center-left, the Antenna selector switch in the center, and the Inductance roller with its 3-digit counter on the right. Below the meter are switches for Range (HI/LO), Power (PK/AVG), and Lamp (ON/OFF).

Front Panel Controls:

- SWR/Wattmeter:** Displays forward power, reflected power, and SWR simultaneously.
- Differential Capacitance Knob:** Adjusts the capacitance for tuning. Marked 0-10.
- Antenna Selector Switch:** Selects between various antenna connections: COAX 1, COAX 2, EXT. DUMMY LOAD, BAL. LINE, COAX 2 DIRECT, COAX 1 DIRECT.
- Inductance Roller with Counter:** Provides precise control over the roller inductor, indicated by a 3-digit turns counter.
- Range Switch (HI/LO):** Selects the power range for the meter.
- Power Switch (PK/AVG):** Selects between peak or average power readings.
- Lamp Switch (ON/OFF):** Controls the illumination of the meter.

4. SETUP

- Power Connection:** The metering circuitry requires 12VDC. Connect a 12VDC power supply (such as the MFJ-1312D) or an MFJ-5513 cable to the 12VDC input jack on the rear panel.
- Transceiver Connection:** Connect the output of your transceiver to the "TRANSMITTER" SO-239 connector on the rear panel using a high-quality 50-ohm coaxial cable.
- Antenna Connection:**
 - Coaxial Antennas:** Connect your coaxial antenna(s) to the "COAX 1" or "COAX 2" SO-239 connectors on the rear panel.
 - Balanced Line Antennas:** Connect your balanced line antenna to the binding posts labeled "BALANCED LINE" on the rear panel.
 - Single Wire Antennas:** Connect a single wire antenna to the "WIRE" binding post on the rear panel.
- Ground Connection:** Connect a good RF ground to the "GROUND" binding post on the rear panel. A proper ground is crucial for safe and effective operation.

5. OPERATING INSTRUCTIONS

5.1 Initial Power-Up and Metering

1. Ensure all connections are secure.
2. Turn on the 12VDC power supply for the meter.
3. Set the **Lamp** switch to **ON** if illumination is desired.
4. Select the appropriate **Range** (HI for high power, LO for low power) and **Power** (PK for peak, AVG for average) settings for your operating conditions.

5.2 Tuning Procedure

The MFJ-986 is designed for easy tuning, often requiring only one setting for minimum SWR due to its differential capacitor.

1. **Select Antenna:** Set the **Antenna Selector Switch** to the desired antenna port (e.g., COAX 1, BAL. LINE). If using a direct connection without tuning, select COAX 1 DIRECT or COAX 2 DIRECT.
2. **Initial Settings:**
 - Set the **Differential Capacitance** knob to a mid-range position (e.g., 5).
 - Set the **Inductance Roller** to a mid-range value (e.g., 150 on the counter).
3. **Apply Low Power:** With your transceiver set to a low power output (e.g., 5-10 watts), transmit a continuous carrier (e.g., in CW mode).
4. **Adjust Inductance:** Slowly rotate the **Inductance Roller** while observing the SWR meter. Find the point where the SWR reading is lowest.
5. **Adjust Capacitance:** Slowly rotate the **Differential Capacitance** knob while observing the SWR meter. Adjust for the absolute minimum SWR.
6. **Fine-Tune:** Make small, alternating adjustments to both the **Inductance Roller** and **Differential Capacitance** knob until the lowest possible SWR is achieved. The goal is to reach 1:1 SWR if possible.
7. **Increase Power:** Once minimum SWR is achieved at low power, you can increase your transceiver's power output to your desired operating level. Re-check SWR and make minor adjustments if necessary.

Note: The 3-digit turns counter on the Inductance Roller allows for precise recall of settings for specific frequencies and antennas. Record these settings for quick retuning.

6. MAINTENANCE

- **Cleaning:** Keep the tuner clean and free of dust. Use a soft, dry cloth for cleaning the exterior. Do not use abrasive cleaners or solvents.
- **Connections:** Periodically check all coaxial and binding post connections to ensure they are tight and free from corrosion.
- **Internal Inspection:** If you suspect an internal issue (e.g., loose components as noted in some user feedback), it is recommended to have the unit inspected by a qualified technician. Opening the unit may void any warranty.
- **Storage:** Store the tuner in a dry, temperature-controlled environment when not in use.

7. TROUBLESHOOTING

- **No Meter Illumination:**
 - Ensure 12VDC power is connected and switched on.
 - Check the **Lamp** switch is in the **ON** position.

- Verify the 12VDC power supply is functioning correctly.
- **High SWR Readings / Difficulty Tuning:**
 - Check all antenna and transceiver connections for proper seating and continuity.
 - Ensure your antenna is suitable for the operating frequency.
 - Verify the **Antenna Selector Switch** is set to the correct position for your connected antenna.
 - Confirm a good RF ground connection.
 - Ensure the **Range** switch is set appropriately for your power level.
 - Perform the tuning procedure carefully, making small adjustments to both Inductance and Capacitance.
 - Inspect the internal components for any loose wires or connections (if comfortable and knowledgeable, otherwise seek professional service).
- **No Power Reading on Meter:**
 - Ensure the transceiver is transmitting power.
 - Check the coaxial cable between the transceiver and tuner.
 - Verify the 12VDC power supply for the meter is connected and active.
 - Confirm the **Range** switch is set correctly.

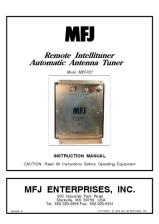
8. SPECIFICATIONS

- **Model:** MFJ-986
- **Tuner Type:** Differential-T, Roller Inductor
- **Power Rating:** 3KW PEP SSB amplifier input power (1500 Watts PEP SSB output power)
- **Frequency Coverage:** 1.8 - 30 MHz continuous (including MARS and WARC bands)
- **Inductor:** MFJ exclusive AirCore Roller Inductor with 3-digit turns counter
- **Capacitor:** Differential Capacitor
- **Metering:** Lighted Cross-Needle meter for SWR, Forward, and Reflected Power (Peak/Average selectable)
- **Meter Power:** 12VDC (MFJ-1312D power supply or MFJ-5513 cable required)
- **Antenna Connections:** Coaxial (2), Balanced Line, Single Wire
- **Dimensions:** Approximately 19.75 x 13.75 x 8.5 inches (Package Dimensions)
- **Weight:** Approximately 9.88 pounds

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service, please contact MFJ Enterprises, Inc. directly or refer to their official website. Keep your purchase receipt as proof of purchase.

Manufacturer: MFJ

	<p>MFJ Versa Tuner II MFJ-941E User Manual and Technical Guide</p> <p>Comprehensive guide to the MFJ Versa Tuner II MFJ-941E, covering general information, cross-needle SWR/Wattmeter usage, antenna selector functions, installation, operation, tuning adjustments, troubleshooting, and antenna matching techniques. Includes technical assistance contact information.</p>
	<p>MFJ-1204 USB Radio Interface Instruction Manual - Connect Your Radio to Computer</p> <p>Comprehensive user manual for the MFJ-1204 USB Radio Interface, detailing setup, connection, configuration, and troubleshooting for Ham Radio digital modes.</p>
	<p>MFJ-939 Plug&Play Intellituner Automatic Antenna Tuner Instruction Manual</p> <p>This instruction manual provides comprehensive guidance for the MFJ-939 Plug&Play Intellituner™ Automatic Antenna Tuner. It is designed to help amateur radio enthusiasts install, configure, and operate the tuner with various compatible radio models from brands such as Icom, Alinco, Kenwood, and Yaesu.</p>
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	<p>MFJ 2017 Ham Catalog: Antenna Tuners and Radio Accessories</p> <p>Explore the MFJ 2017 Ham Catalog, featuring a comprehensive range of high-performance antenna tuners, SWR meters, analyzers, power supplies, and essential ham radio accessories from MFJ Enterprises.</p>



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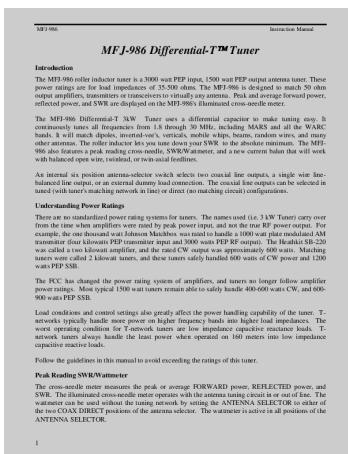
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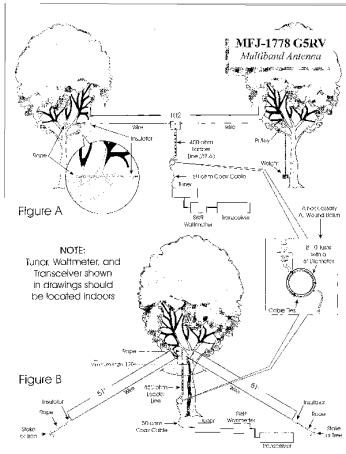
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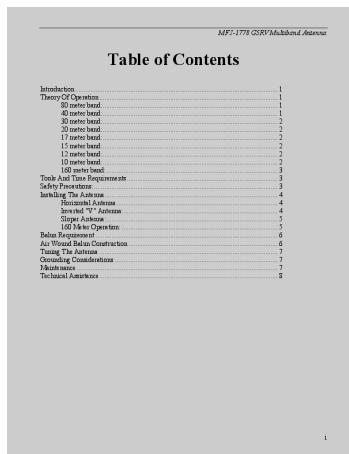
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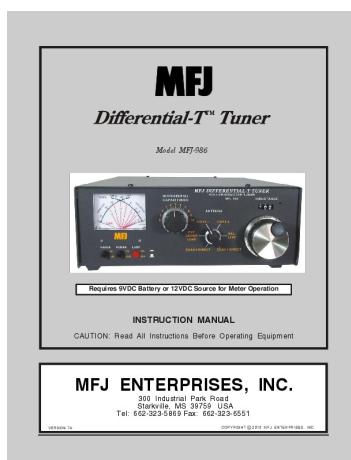
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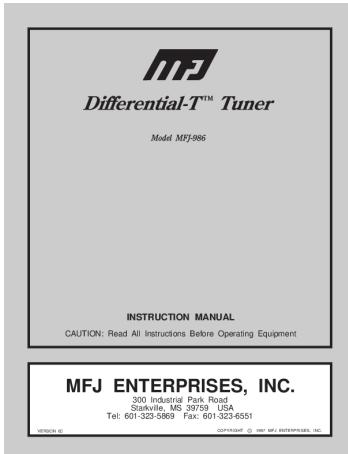
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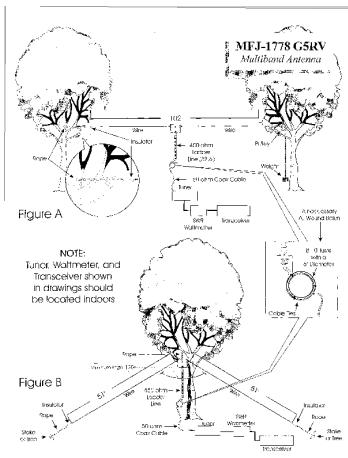


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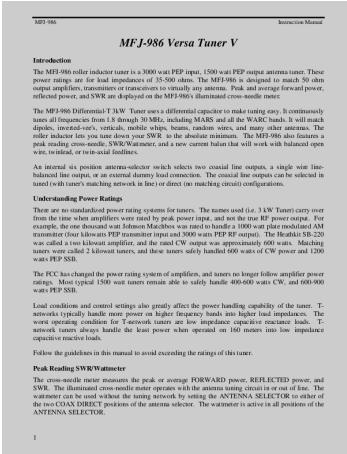
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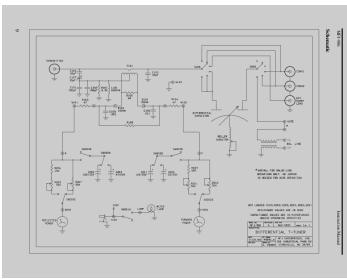


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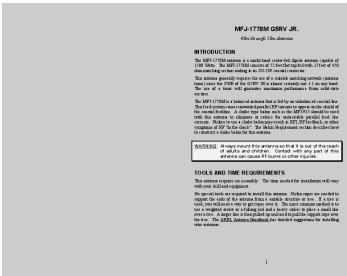


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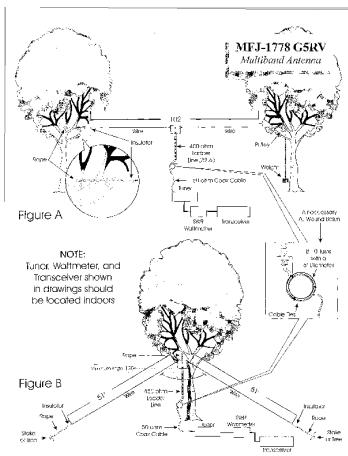


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Table of Contents

Introduction	1
Theory Of Operation	1
80 meter band	1
40 meter band	1
30 meter band	2
20 meter band	2
17 meter band	2
15 meter band	2
10 meter band	2
60 meter band	2
50 meter band	3
Tools And Tune Requirements	3
Safety Precautions	3
Mounting The Antenna	4
Balanced Antenna	4
Resonant Frequency	4
Stepper Antenna	5
60 Meter Band	5
Balun Requirements	6
80 W Power Line Construction	6
Tuning The Antenna	7
Grounding Considerations	7
Maintenance	7
Technical Assistance	7

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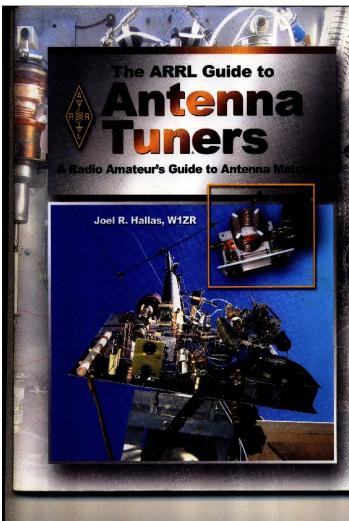


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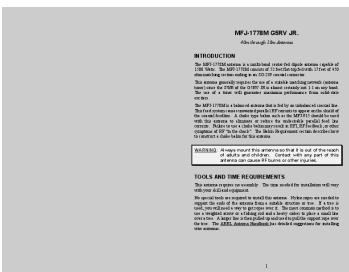


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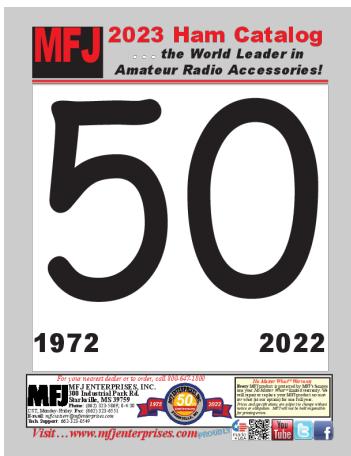
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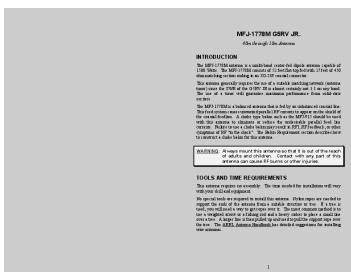


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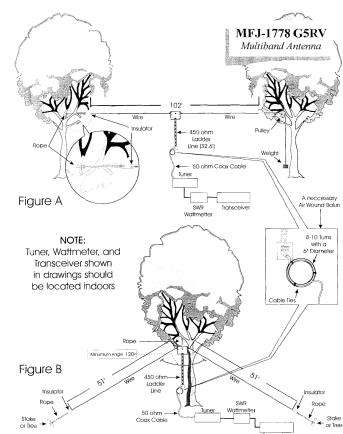


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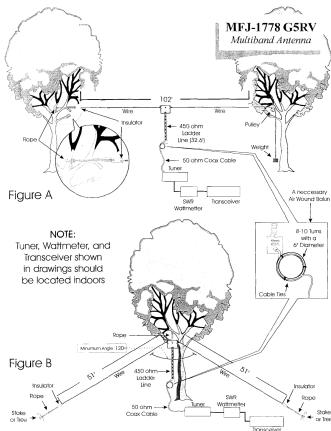
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..... Operating this antenna without a tuner is not recommended. The use of a tuner like the MFJ-962C or **MFJ-986** will provide proper matching on all HF bands. Important: If you have a problem tuning this a...

lang:en score:21 filesize: 1.67 M page count: 15 document date: 2021-08-22



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Product Document product.asp?artdetail=304314 language: NL country: classicinternational.eu

MFJ 986 TUNER 1.8-30 MHZ INPUT 3 KW MET ROLSPOELEN

PRODUCTINFORMATIE De **MFJ-986** is een antenne tuner met AirCore rolspoel en differentiaal condensator. Deze tuner is geschikt voor alle type antennes. Alle MFJ rolspoel tuners zijn thans voorzien van een speciale AirCoreTM met parasiet killer. De spoel...

lang:nl score:21 filesize: 326.74 K page_count: 1 document date: 2020-12-30



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Group 16 MFJ Enterprises Inc 2023 v 1678999078 cdn shopify s files 1 0289 7782 3843 |||

... 160 Watts on 2 Meters Turn your mobile, base or handheld into 160 Watt powerhouses and talk ... hx6D 2.5wx3.5hx10.8d insulated rotor sections Item C is a differential capacitor, as used in the **MFJ-986** antenna tuner. Items D are dual-gang capacitors, capacitance specified is total capacitance....

lang:en score:19 filesize: 17.38 M page_count: 5 document date: 2023-03-16



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Q080 082 Owner Q078 080 universal radio catftp

Amateur Antenna Tuners Z-100Plus AT-1000 Pro2 AT-100 Pro2 The LDG Z-100Plus is a low cost automatic95 MFJ-948 Similar to the MFJ-949E without the dummy load.x List 169.95 Order #0648 149.95 **MFJ-986** The innovative **MFJ-986** Differential-T 3 KW roller inductor tuner from MFJ covers 1.8 to 30... .

lang:en score:18 filesize: 5.33 M page_count: 3 document date: 2014-01-16

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Amateur Antenna Tuners Z-100Plus AT-1000 Pro2 AT-100 Pro2 The LDG Z-100Plus is a low cost lightwei ... 9.95 MFJ-948 Similar to the MFJ-949E without the dummy load. List 169.95 Order #0648 149.95 **MFJ-986** The innovative **MFJ-986** Differential-T 3 KW roller inductor tuner from MFJ covers 1.8 to 30...

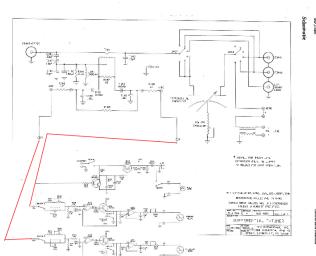
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Z-100Plus IT-100 IT-100 Amateur Antenna Tuners YT-1200 The LDG Z-100Plus is a low cost lightweig ... n 50 ohm dummy load and a heavy duty 4:1 balun. 3 x 10 x 9 . List 259.95 Order #3538 224.95 **MFJ-986** The MFJ-901B is a small 5 x 2 x 6 inch and affordable 200 watt PEP versa tuner. The MFJ-...

lang:en score:18 filesize: 5.94 M page_count: 4 document date: 2019-10-07



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MEJ 986 sch Rev7A 2013 Matching network and RF switch v1 radiomanual info schema ACC matching

2013 II

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balun. Tunes any antenna. HRO Price 189.95 **MFJ-986** Differential-T TunerTM for
1.8-30 MHz, at 3 kW PEP. T network with AirCoreTM roller inductor.

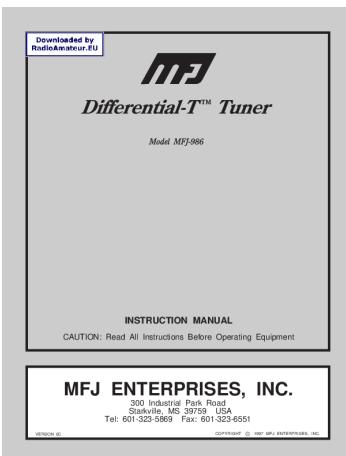
lang:en score:17 filesize:4.84 M page_count:96 document_date:2003.11.17



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Explore the MFJ 2017 Ham Catalog, featuring a comprehensive range of high-performance antenna tuners, SWR meters, analyzers, power supplies, and essential ham radio accessories from MFJ Enterprises.

lang:en score:17 filesize: 21.32 M page_count: 140 document date: 2016-08-12



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MFJ 986 user manual Adam RadioManual The roller inductor tuner is a 3000 watt PEP input 1500 output antenna These power ratings are for load impedances of 35 500 ohms The Follow the guidelines in this to avoid exceeding Peak Reading SWR Wattmeter cross needle meter measures peak or average FORWARD REFLECTED and illuminated operates with tuning circuit out line radiomanual info schemi ACC matching 80

...

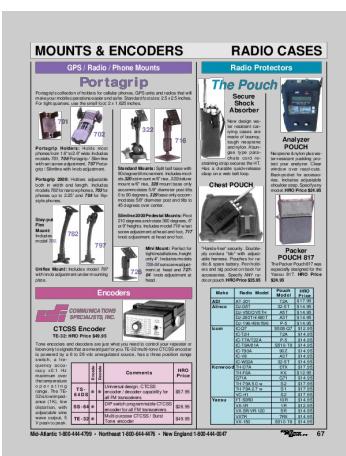
lang:en score:16 filesize: 116.32 K page_count: 11 document date: 2011-09-21



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JULY 48784 Popular Electroenies COMBINED THE MAGAZINE FOR THE

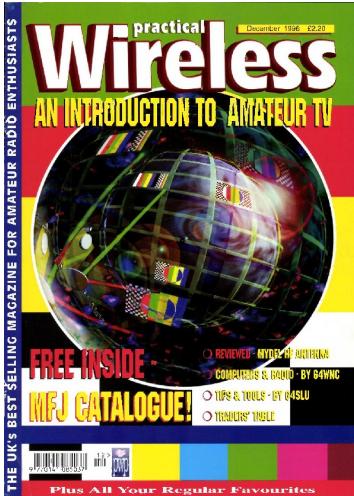
ELECTRONICS ACTIVIST The Parts Co ... ernal DC power supply to operate. In my ham station, I have a Heath audio filter, an MFJ keyer, the **MFJ-986** tuner and several other small devices that are all hungry for 6-, 9- or 12 -volts DC at some...

lang:en score:12 filesize: 8.91 M page_count: 100 document date: 2017-11-29

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lang:it score:11 filesize: 172.71 K page_count: 25 document date: 2018-07-16

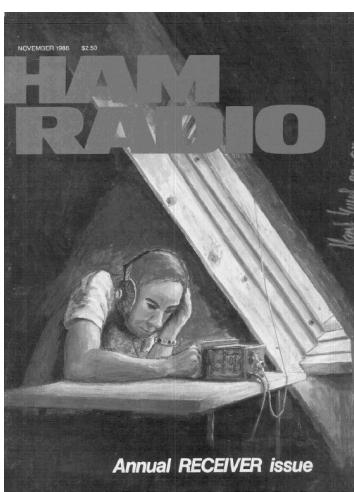


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itL 0 1111T 11 ,1 LL Plus .A.11 Your Regular Via.vcourties, 756 ICOM NEW HF/6M
DSP TRANSCEIVER ... tting. Simple 2 -knob tuning makes tuning easier you
accurate SWR and power readings over its The **MFJ-986** is a rugged 3 KW PEP SSB
than ever, gives you minimum SWR at only one entire frequency range...

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HRO Catalog Fall Winter 2023 Ham Radio Outlet Pro Set Media for computer has a high level condenser element and two 1.8 plugs applications requiring connection of headset. hamradio catalog srstid

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headset Pro headset RigExpert AA 1500 attractive professionals hobbyists Type N input voltage 85 135
170 260 VAC 5 way binding posts hamradio KNATWv1ba6Gd3v6vE28hamradio
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sBL4IJgJzLrSaWN5Xw8U0LEwzLwN4QRGnyIM8XLKOBd posts MFJ 962D Handles kW PEP SSB
amplifier power 800 W Combines MFJ 4603 4604! Gives every you ll ever hamradio
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Matter WhatTM warranty will repair or replace at our option your MFJ hamradio
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clear called CQ Instantly I met with reply We exchanged typical hamradio
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RigExpert powerful antenna analyzer designed testing checking tuning repairing antennas
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Year 19, Issue 12 June 1990 1.25 te CWs Grimsh KC6E0Z: N Tracking elusive interference par ... ob Differential-TTM Tuner MFJ s Deluxe 300 Watt Tuner MFJ s Artificial RF Ground 7 9 95 MFJ-931 7 **MFJ-986** Fhe new **MFJ-986** Differential-TTM SOOQ S 2-knob Tuner uses a differential capacitor to mak...

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HRO Catalog Spring Summer 2024 Ham Radio Outlet 100 W Transceiver with AE55 · FT 710 The new is packaged in a sleek compact design while providing 100W output It also hamradio catalog srsltd AfmBOoriBt1YM8NlxjUID4Yk 2iVgbRu7NjmkAgW1wzswGPKbIYhgty2 includes Amateur Radios Scanners Digital Packet Audio Gear Morse Keys Analyzers Amplifiers Power Supplies Coax Antennas AfmBOorxblgxiKjbmlMyP2rH39VN5axJutlvp7e7Xq2HGIIBK0W 6wa OutletHRO Outlet100 also The Hygain rotators \$309 95 Accessories Rotor Potentiometer RPM 1 Fits Hy gain T2X HAM II III IV V and CD45II Has silver hamradio 2iVgbRu7NjmkAgW1wzswGPKbIYhgty2hamradio 6wahamradio AfmBOopl3 S gMnNtwShij f3iR832KIBy1ESiLOMZAAbSzs5V0jmijQ silver DM 780 capable of digital modes including WSJT X CW RTTY SSTV PSK31 MT 63 more Master interfaces the popular hamradio f3iR832KIBy1ESiLOMZAAbSzs5V0jmijQhamradio AfmBOoqUZhzNYALNWy ZnZGBUN3H p7aAick20GiAoGoPzjGkDltQl6V popular MFJ 213 has all features popular MFJ 266C but its frequency range 60 MHz Page 45 hamradiohamradio p7aAick20GiAoGoPzjGkDltQl6Vhamradio AfmBOorFHxiLb vgd8onjoEqGR2QTaO5vBaDZLZXe4WiRbDOWTpjCdb1 hamradioHygain vgd8onjoEqGR2QTaO5vBaDZLZXe4WiRbDOWTpjCdb1hamradio AfmBOoqkGYNNumZVg01mTrNfuKa hzPhr0SHYfDloD1nGJ4ms7bvgbzfz hzPhr0SHYfDloD1nGJ4ms7bvgbzfzhamradio AfmBOor0cavCbjcaOsrltRg7yeqzjO8nL9x2 SQXGQfxwO 2EQUPnNd 962D Handles 5 kW PEP SSB amplifier input power 800 Combines 4603 4604! Gives every connection you ll ever hamradio 2EQUPnNdhamradio AfmBOoquOX3kB0e2DIV2 iTQBqqPDPP3Dq0A3Dq70RbRBVILIdT3nrphamradio using AI algorithms engineers are rethinking antenna designs simulating electromagnetic behavior optimizing minute details for maximum hamradio iTQBqqPDPP3Dq0A3Dq70RbRBVILIdT3nrphamradio AfmBOoo9MQGzIT6QvyutPZqX8RvlJMonie2AJU13Kyoqyd0R2dAOO0FI maximum By AfmBOoo7KZDt6Rpq43 Yo7A1rnWKykNLCaqD8m h vVxkwLgAhQzM5Bghamradio maximum 32 Amp Switching DM 330MVT Super lightweight supply great portable operations Provides 32 A peak 30 continuousshhamradio AfmBOoo9MQGzIT6QvyutPZqX8RvlJMonie2AJU13Kyoqyd0R2dAOO0FIhamradio AfmBOoocoBpGZ3Qq 2OLIFLS cdQbFdO2TFwXpU5xIkS4tnz2w mhmNS continuousModem to Yaesu radio SCS 8pin DIN 6pin mini 2m \$49 manual Valid thru 06 2026 GWMT 22 1908 Price \$29 95hamradio mhmNShamradio AfmBOopUAIJgkrEErPOQIN6DRDqwhDBm9yWF0uGZMe09qolx4IEpJZzR 95Super x 2 H 6 D inches 120 240 VAC switch Designed use small UHF VHF Meter TV FM antennas hamradio AfmBOopUAIJgkrEErPOQIN6DRDqwhDBm9yWF0uGZMe09qolx4IEpJZzRhamradio AfmBOoqPxOOX1R bjeEWnqUCBPVcMQMCYPB0gwUW4FILWRJFo LomGjl antennas Max 7 watts Includes 9 ft approx audio cable Weight 54 lb match IC 7610 Two lines Has hamradio LomGjlhamradio AfmBOornecaUcw6Tf5gp1wRDWAdFckIM1tYbP4lowMpqJ1paCVpuh1s3 Has 150 watt 80 10 meter tuner Covers 3 12 15 17 20 40m Sentinel Hex Beam m Dual band hamradio AfmBOornecaUcw6Tf5gp1wRDWAdFckIM1tYbP4lowMpqJ1paCVpuh1s3hamradio

AfmBOoqLkvrz1OQHcVrAem2MqamcpEGmCjRgTP3oirUx5S GxX0s99Ni band In 1995 LDG Electronics pioneered automatic Switched L HF Z 100Plus perfect SOTA POTA other HRO hamradio GxX0s99Nihamradio AfmBOorb6CK9UkykF63rnUo1S5Vm SC tvDXuP3NKGqLJMLjtnDVyBqU HRO Radio electronics theory principles Circuit 2213A UV resistant direct bury RG213 U Mil Spec w PL259 hamradio tvDXuP3NKGqLJMLjtnDVyBqUhamradio AfmBOoobC KNwTJXL2MSavbyovjMcC3M1IWO66Es9c791LaBMHQBJ0ol PL259 Full duplex band repeat 50 on both bands Huge alphanumeric LCD display RGB backlight choice hamradio KNwTJXL2MSavbyovjMcC3M1IWO66Es9c791LaBMHQBJ0olhamradio AfmBOopV3K74C5D3g9ks12y3s5aNfGk52Kwt3fVoq 7sCP5FbUealjhL choice And because it s ultra size can literally take this wonder just about anywhere Perfectly suited backyards parks hamradio 7sCP5FbUealjhLhamradio AfmBOoqwg9uZtGd5h6eluHmyQe0JMBMjDfyYg9CsK6xArW6Oivf4DFuZ parks knob adjustment internal speaker sound level Front mounted 8 inch stereo jack powered speakers or 16 ohm higher hamradio AfmBOoqwg9uZtGd5h6eluHmyQe0JMBMjDfyYg9CsK6xArW6Oivf4DFuZhamradio AfmBOoqeXtGFbiQfTLes4IUabsZGd RAHUb3IQX0JRaRLNQgPGSB 71Y parks Meter 300 3000 Active Model DX DD no trap 40 dipole 82 long Price knob AfmBOorhdxet08Tw5inVdkJeX6G4tewCln7BU bQJ 4uYwwxzbWwX3Mohamradio DJ MD5XLT GMRS NEW Alinco DJ G46T 5W personal general purpose communication way rugged IP54 rated 71Yhamradio AfmBOopLGSQuu3iVnsXjSEuBT ZLoVLIVThjJAKVp8DQIC rUZ jgID4 RX 108 174 AM 400 480 Receiver double conversion Civil aviation utility receive 1000 channel programmable memory DJ AfmBOoqnoCWvJ7pHvD7A3Vdb3O73ep7WDxO5Ecs1Fj2DmlB33ldSNCOehamradio Price Meter AfmBOopkXFMHhJGSKUVkVEGUptK7Vz306lfDmDYPAsq1QvpDj8tzFJT fhamradio Denver CO 444 9476 Milwaukee WI 558 0411 New B 310 G 144 148 All 4 13 VDC Yes SO 239 B hamradio jgID4hamradio AfmBOoojrK56wBlb6hF5oXuw ygCB5FUYHUTxcFlshPT1SFVSzsLQObJ B One key area amateur being impacted by signal processing specifically that noise reductionhamradio ygCB5FUYHUTxcFlshPT1SFVSzsLQObJhamradio AfmBOorqHsFXG6LwNC1NyHkBS6mXPtZ1n ee0AF4cXYLsOK1ZokZzdTe reductionCase Size WHD 236 175 53 mm Unit lbs kg current radios come threehamradio ee0AF4cXYLsOK1ZokZzdTehamradio AfmBOoqZSQY UP WAu vYzwsLuSsQNHMi0BoNylEo5M6l8Uxrg9goiV threeAlinco etc Built protection circuit modules PCM which micro \$79 80 hamradio vYzwsLuSsQNHMi0BoNylEo5M6l8Uxrg9goiVhamradio AfmBOopsefbApcdg8bCbAiz7cjYHb63NCFG1NjYgqbU8Wc3EXUBsvcx1 80 5 GHz Wi Fi antennas 75 F connector makes Uniden 24 US hamradio AfmBOopsefbApcdg8bCbAiz7cjYHb63NCFG1NjYgqbU8Wc3EXUBsvxihamradio AfmBOorROCAqTIEEsV4G hmvSFxv1Tx3pRogOphbOiWFE6j1KcrDMe63 US 240 models also available GZV4000 \$179 standard transceivers from 160 meters With 000hamradio hmvSFxv1Tx3pRogOphbOiWFE6j1KcrDMe63hamradio AfmBOoqMVP toxUvHH9sHASATrP89rfare6LQgkE1RnTunZgfW2Z51e 000240 toxUvHH9sHASATrP89rfare6LQgkE1RnTunZgfW2Z51ehamradio AfmBOor9AJ0kjRhFRehc bIWJAKSoUHnr9Kg3d75eHflwVrsW46Ak526 000manual Gordon West General Class ham study 2027 hamradio bIWJAKSoUHnr9Kg3d75eHflwVrsW46Ak526hamradio AfmBOopCVjcTbZ5ZQ MArdXFuwEVg9OT8HaaPzYPNHMDodLjz9QbAUusr 2027 Full MArdXFuwEVg9OT8HaaPzYPNHMDodLjz9QbAUusrhamradio AfmBOopKvnU1Sm WvoP4Apjz8K3SG Zu32z2w6zpa Mgq2FgGzwqXH choice It comes sensors pre installed so if decide add one auto controllers SDC Simple Controller 102 Programmable hamradio Mgq2FgGzwqXhamradio AfmBOookAScXKIC6C3UdMIAcutx0vf9JPFU81iE9bBzP EWr2aA3Y1zW Programmable P Where do think going relationship lot us at would like know Post your thoughts to hamradio EWr2aA3Y1zWhamradio AfmBOoq3RijoR4aag7LYUgqeZIRWsBrmSOaVT3SMCxIEMVp9OGHs8JbG to Antenna performance directly affects strength coverage By simulating hamradio AfmBOoq3RijoR4aag7LYUgqeZIRWsBrmSOaVT3SMCxIEMVp9OGHs8JbGhamradio AfmBOooWEjdse8 e UektOFqc2ngSLbGdns j43j EbkFDWyS0fdtQ5X Outlethamradio hamradio100 EbkFDWyS0fdtQ5Xhamradio AfmBOoqYF830gl3t Z2ghUjkTvxmGVkTcpBg25oTg 2cKDAfF8XmdonL AfmBOoq vDbZKgfg7QggbWqS5 szYibDFPtMJ9jVNQMDoLay1kRy4b6Shamradio

2cKDAtF8XmdonLhamradio AfmBOoopsrushmi1KOPm5yWTAFZNuTX opzRvnWehjqWhCd2KUJL23Gx
opzRvnWehjqWhCd2KUJL23Gxhamradio AfmBOoqgddwoqCCJflrE12iPbE m21
uB64nxa4SklQEmkve6lX4loJo
AfmBOop5b4GZ68s8g3DJluv0Bbr0J1JiVkbUiLn0cKgxnejYD30RJukYhamradio
uB64nxa4SklQEmkve6lX4loJohamradio AfmBOopdQDOVFykjtragEalCWkoh6J4wqyBCUU17
MYmRkfIBCLgPmP6 MYmRkfIBCLgPmP6hamradio AfmBOordQkDDSx
LwVd0eegWQvfw0b065ndKwz7ZKm2md0doVf74Yat
LwVd0eegWQvfw0b065ndKwz7ZKm2md0doVf74Yathamradio AfmBOopQIQWZsvkcDrQsLvfEj5FA7s4
Q9ZZ80gnLxfz4cNYIRCzh 9b 9bhamradio
AfmBOooUfrNRWBcv7ABk6diam6KfgB4zL1j81snObYP4tvhkuxbO9AOi AfmBOoqvjlHp
1YIYWMcP1Dd7zXoVPglhAyYYLQJcfw7KDOEtLhrRDWhamradio
AfmBOoonSuscKneJSphObTdoWp1akEZuOQWxk 9bHF RNGth9AD0DJ0hamradio
AfmBOopoXNLFd5JLuRjUCxW89gWteByaYevkKo8uaxF77dTX KQWJ5Whamradio
AfmBOooVEQFh9sAsgNmz0wjZ2o3mqu WWAVo4hEYP0J7k3ZzbupnICsxhamradio
AfmBOooUfrNRWBcv7ABk6diam6KfgB4zL1j81snObYP4tvhkuxbO9AOihamradio
AfmBOooy1nrT1j7UGSjSUPEf9UhA1VVC2nsq CkVgumAz2AY wa6dJTU simulating One
AfmBOooZH8pqVXwVQIMsR ZyiMZNviV6k jVod3nkmO 24dUsta1OipDhamradio reductionSDR
configuration Narrow Band SDR Direct Sampling receiver emphasizes excellent while hamradio
AfmBOoo6lenEJkMBHjlLB9iysRRrMTimzgesZLVTjU54RTUnqGjw9 uShamradio
WWAVo4hEYP0J7k3ZzbupnICsx while Icom 2730 \$25 Elecraft KX3 RIGrunner 4008 amp outlets LED
audible alarms pairs of hamradio AfmBOopC0ghwZfFatpYELzg5MCK091gtX1XPr1kRytrClnU0Lr2q
edyhamradio KQWJ5W of The Clocks AfmBOoopQD75oMwgHMPSPRFIPVcldX6gVLcpYTIPoiuy3rsxF
pLifzqhamradio RNGth9AD0DJ0 The
AfmBOoqsKO6iLx5YrgP13cNso9SMA00RfaDDrVMRBz06BmW0HbRNCpUJhamradio
1YIYWMcP1Dd7zXoVPglhAyYYLQJcfw7KDOEtLhrRDW UHF DMR GPS APRS analog support durable
polycarbonate body designed resist hamradio
AfmBOoq7jtyX3snZSoU5CTcY9hzvBmGpmH8XbedTdD9Kzki5sMxTWAJqhamradio
AfmBOortxMHI5YpWBf9L3NMwjF8aMCtYE uQ4PqzRfxa 67GQ0JkGgtkhamradio
AfmBOoqeyBQ0LfX2STkTNIKQfMdQ9nZ94a3 tCpPt7PeBPvNW 32MJqAhamradio
AfmBOorfnrKPxvXOunpq2E7ayIPYZrwlwjPWwwo9NpTGNXClssnlKXthamradio
AfmBOoozvOO7sFnM0eCBk2spB 3wQ8j5hClc4qdZhOGixAD6 FCDViVEhamradio
AfmBOop5b4GZ68s8g3DJluv0Bbr0J1JiVkbUiLn0cKgxnejYD30RJukY
AfmBOoprrEbJyzu6iJEsGGKNqhgxC0PTF5o K37enHHVTStgLQwLvNichamradio
AfmBOoolD53ALBBUgMOiwfRL q2 oODDDeh2QBoQHq81G88KipcV Zhamradio
AfmBOooovSr5nwy8n0tuACoeRBakoRWnCh8FwpZmJwXYZ9py1Q3X0xE0phamradio
szYibDFPtMJ9jVNQMDoLay1kRy4b6S
AfmBOopKqJGnOje7m5PZn95heKFFXgmtVHtff4yqPHqcKzUeFoXCzlahhamradio FCDViVE resist When
we starting see leveraged enhance many aspects our hobby One amateur hamradio
AfmBOopSsYH4luNzAhKnLmAXMT5EUSBTaZQcgIQsb W9U4sgveWn1lshamradio
AfmBOorfnrKPxvXOunpq2E7ayIPYZrwlwjPWwwo9NpTGNXClssnlKXt amateur FOR 224V operation
220V switching mode DC continuous rating 100% duty cycle NEWhamradio
AfmBOooWGSIm2j0T2hLtDkY xbOEx3d37P3MpplmLTNWNCt02KjLhg2hamradio
K37enHHVTStgLQwLvNic amateur Calibrated IARU RSPs Calibrated RF excess db usable FOR
AfmBOorrtwAnm4N99wP6dx9zf O9H8QNrhz3AzFVbcEbN9Z0DUTBG4Khamradio NEWMFJ Peak
reading cross needle SWR Wattmeter AirCore™ roller inductor hamradio AfmBOoqz
zVainCMyFSFPIs7t4y9 c6scxFXGtul865cUZ9PCSemXEXshamradio
AfmBOooovSr5nwy8n0tuACoeRBakoRWnCh8FwpZmJwXYZ9py1Q3X0xE0p NEWOne reductionMFJ
AfmBOorAhTqDXu6Y 1SQjvlmZ7uNdhsuEAMYQU i3uxxec7vNb6VE76ohamradio
AfmBOopKqJGnOje7m5PZn95heKFFXgmtVHtff4yqPHqcKzUeFoXCzlah inductor AM receiving
broadcasting FNB 80LI 1400 mAh lithium ion battery pack Emergency hamradio
AfmBOookJkXpdOZjOqkJTlr66SPb2TNvJDgzV0cdsQrYaUL41I1Slh4dhamradio 32MJqA Emergency Full
AfmBOorg31 IteDyao8tATgrccbCxa4N6M1PdY3FUwXIhbM94ycrt Ccxhamradio 67GQ0JkGgtk

choice visual equipment bikes scooters capacities ranging Ah up 200 Contact sizes BLF 1203W
12 hamradio AfmBOopZ D6yrXZqQZxma4YrX5crlZxdHq28gChuU1SK7LLVybC3OYbh Hygain silver
popular ever maximum Modem antennas Max Has 150 band In HRO PL259 Full choice And parks
Price knob RX memory Denver B reduction Case three 80 US 000 2027 Programmable P to Antenna
simulating while Icom of resist When amateur usable FOR inductor Emergency visual 12
vVxkwLgAhQzM5Bg f 4uYwwxbWwX3Mo
AfmBOoqnoCWvJ7pHvD7A3Vdb3O73ep7WDxO5Ecs1Fj2DmlB33ldSNCOe 24dUsta1OipD uS edy
pLlfzq AfmBOoqsKO6iLx5YrgP13cNso9SMA00RfaDDrVMRBz06BmW0HbRNCpU
AfmBOoq7jtyX3snZSoU5CtC9hzvBmGpmH8XbedTdD9Kzki5sMxTWAJq W9U4sgveWn1ls
O9H8QNrhZ3AzFVbcEbN9Z0DUtBG4K xbOEx3d37P3MpplmLTNWNCt02KjLhg2 i3uxxec7vNb6VE76o
c6scxFXGtul865cUZ9PCSemXEXs
AfmBOookJkXpdOZjOqkJTlr66SPb2TNvJDgzV0cdsQrYaUL4I1Slh4d Ccx ||| ||| www.hamradio.com 1 2
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contents Ham Radio Outlet MFJ 941E Wide range 200 watt PEP versa tuner Covers 1 8 to 30 MHz Combines MFJ 4603 and 4604! Gives every connection you II HRO Catalog Spring Summer 2024shamradio catalog HRO 2024s srsltid AfmBOopbIgZAkvO5Y64x7cvRc5dWyV27QVAPKP7EwZCP s OnCAC0HvV Outletcontents II DX 77A AV 18VS 12AVQ 14AVQ ANTENNAS End fed radiators Hy gain rotators Has silver plated contact point that makes for HRO 2024sHRO OnCAC0HvVhamradio AfmBOopg8AVIJzNmuhdlPEZKX0dDCR3Y6SCvGCOE97kHz0pNmASH8li for Developed for the Yaesu FT 8900 The 10m 6m bands tune independently will SSB FM Length approx 54 Price HRO AfmBOopg8AVIJzNmuhdlPEZKX0dDCR3Y6SCvGCOE97kHz0pNmASH8lihamradio AfmBOoqn EC6lyGn4cqIb58hc3XtFY xeiBognX6NuzZ9OLr8 zqBrW Price Developed zqBrWhamradio AfmBOoG oOkorxfylpeZQYQRBIty0XQicXd3QxjXq0xEVa rL3IKjs Price YPS FT710 USB 710 ADMS 891 Record play back off air signals Price \$239 95 Voice Keyer · 434BHRO rL3IKjshamradio AfmBOoru59b1W97Z2nouv5PU23 MlcNQInpURXXvxHeI pRrSTPdC0wH 434BADMS FT2D 2DR FT25 Modem radio SCS 8pin DIN 6pin mini 2m \$49 95HRO pRrSTPdC0wHhamradio AfmBOopGgsU5UlleG54KD92ZKMBDTaTERJEQkB1raq3T wkyH 3fBpAl 434BMFJ 2389 Base Antennas Combine one of our antennas above with Compac Counterpoise adaptor now have a powerful base station ADMS AfmBOoqpunA2kUwFhNbghWdb222T Mz mwV2iVvp M4y0IEjHrk0dS4hamradio station MFJ AfmBOoond6oOxjDU2BpI3bljIGF9zsS vuwgb0mj6Ine3PL4 pLHLOP5hamradio AfmBOor3YDPqQ1Bs6AZqKoQ6nD1kXvGlvEEWs P2XwpUc2PqBlxN18Fahamradio 95Yaesu 857 817 100 100D \$13 HLUSB 4CON 4 94 102 108 110 115 On Glass HRO 3fBpAlhamradio AfmBOoqGfMoBMLi5j91mM5uUPTsI3fnxUF7ynZ2TF6g GCmX9hX5yb0l Glass ATAS 120A Then ATAS 25 is just ticket Great provides HF VHF UHF coverage automaticHRO GCmX9hX5yb0lhamradio AfmBOopl3ew jTY1Z5IQhDW4TZbRjsa2Ob0WYa2vRm1I8WUrrkplNzj automaticBD 35 143 149 430 450 7 W 45 12 15 VDC A — SO 239 3 lb B Mirage 71HRO jTY1Z5IQhDW4TZbRjsa2Ob0WYa2vRm1I8WUrrkplNzjhamradio AfmBOoru9c pDklsvlQqQaB0e8L8veS3njg WOUMJOSPh49nZPmGHZ6vV 71Full duplex X band repeat 50 20 5 power output on both Huge alphanumeric LCD display RGB backlight choice HRO pDklsvlQqQaB0e8L8veS3njg WOUMJOSPh49nZPmGHZ6vVhamradio AfmBOorHqiCcMfzh3zFMz4WQ30iQxxtDo3Z0GZWDTpfc6odWt78UjUy choice Full AfmBOorHqiCcMfzh3zFMz4WQ30iQxxtDo3Z0GZWDTpfc6odWt78UjUyhamradio AfmBOoplzknZchsGf5zLT7KzfBSDk2uBdR8gFYYGnOteie4rNgx4XPiy choice Modem 5200 in 79 ft 22 sq 440 2 6 wire 8HRO AfmBOoplzknZchsGf5zLT7KzfBSDk2uBdR8gFYYGnOteie4rNgx4XPiyhamradio AfmBOoos7vpMpyqdCb7dyjWWmuOTn8d8Npp5NTPkrrTi3JfJVSjH DW0 8Full DW0hamradio AfmBOooJdoYhSzQFDJoZPpal8S3PTCnmJuBRBG1gRRRUgEuT34xoYqSf choice 5 GHz Wi Fi 75 ohm F connector it Uniden 24 US HRO AfmBOooJdoYhSzQFDJoZPpal8S3PTCnmJuBRBG1gRRRUgEuT34xoYqSfhamradio AfmBOoojjpV 2QMsZZUEpGAJJyYv9tD2CpWcv1KO dBhKuc9jOaxoD4y US All modes each earphone separate volume control Super padding 9 cord Padded headband comfort cushion ear pads Mono stereo HRO dBhKuc9jOaxoD4yhamradio AfmBOoqSURloC0nQr6dGH3N93dBLd9FBcR75xHmvBiUDN7TAkNIUfdzH stereo for Included AEES optional AD IC or ICM adapter Pro Set Accessories BAG Leatherette HRO AfmBOoqSURloC0nQr6dGH3N93dBLd9FBcR75xHmvBiUDN7TAkNIUfdzHhamradio AfmBOoomlspRANC7dcapohgiysh8NUh41h Vo4Owz2wLNN9wG2KcBWFp Leatherette FT 818ND YPS manual Valid thru 06 2026 GWTM 1908 \$29 Gordon HRO Vo4Owz2wLNN9wG2KcBWFphamradio AfmBOorXq6oyg5MMWNs7u9oBm2XWIB0vwoNZdtM3pG kM4OgJbn7 mnU Outlethamradio hamradioMFJ mnUhamradio AfmBOoq32BBSOuduyWvbwxkMe7eNEbzJtpSXsNKy nBnEIKTK4Ama4O1 hamradiohamradio nBnEIKTK4Ama4O1hamradio AfmBOoqsKRWXmAb6XOB4N5qmKtgDE2t59sVQs1KdDyOD9zqYwHmQW60r AfmBOorJ4ciWif9PTPeLYBB1dRfDYx2O5SoDEGmk8 bMjmrEpmgzoYThamradio AfmBOoqsKRWXmAb6XOB4N5qmKtgDE2t59sVQs1KdDyOD9zqYwHmQW60rhamradio AfmBOoo6FJgj7q0LXHPiKGoeOijB7Vk3mtZdazj4AfUFvbgW8u3e37bL AfmBOoo6FJgj7q0LXHPiKGoeOijB7Vk3mtZdazj4AfUFvbgW8u3e37bLhamradio

AfmBOoqalE3qBvTvgDlI6LqvapDvwa8cKdLYb 2ckHOdBhTNTdqE6OpE
2ckHOdBhTNTdqE6OpEhamradio AfmBOopW8DXt7 jOMM6l02Ch353aU5CBCdyMo4E2fIXD2k94
SxgWn5 AfmBOorbrDfQfDvX d6GCOa3D3Ra69bjqJacGi hBp5QMRprBqUJJNjhamradio
SxgWn5hamradio AfmBOorXVbZ3MbsJt3jTDythVJKMGeU9BPiVKMUYZb EoloC9hnUrZVI
EoloC9hnUrZVIhamradio AfmBOoqOwp862QMyQBr35Nz4 YSbDcdIncXB5F1XurpFhq4vErszcwhb
AfmBOorHfby7KF0TKZFPjqwAEg0tOfxjdPHZCx4auTHfLZzyDU5ZN4vNhamradio
YSbDcdIncXB5F1XurpFhq4vErszcwhbhamradio
AfmBOooagsftkkaBEDmd2sCwyX5tfDwxh1vrxFdnsbcm91JVUHIYWSi
AfmBOooagsftkkaBEDmd2sCwyX5tfDwxh1vrxFdnsbcm91JVUHIYWSihamradio
AfmBOopByl0Pj96LsrPasDm8mqxGS RtISKF aZ3RcXI ElI46gwfRQI ElI46gwfRQIhamradio AfmBOooU8
nWALqWtgO13iKmnqaZHgLF8GkYtyJJEyfUWs79gf5dlemhamradio AfmBOoq5o60 joB
I73cD4IPo56jBCmPXQFRI1ogTmZFVM3MQ0QZKYbyhamradio
nWALqWtgO13iKmnqaZHgLF8GkYtyJJEyfUWs79gf5dlemhamradio
AfmBOoo7EPMsUxfHB0N0naEcQtq1DVEng55 WOd0Kx1O DDPnaZD N77 N77hamradio AfmBOoqf e
GvliTNuyGKWCbdRB cMYfIUKsYvcp2rb11Vaun zFf3bm zFf3bmhamradio
AfmBOooSNzTFuB91EhYILUTzW18NSrhiNKLOSOAIF3E95floHo5yDPy0
AfmBOooSNzTFuB91EhYILUTzW18NSrhiNKLOSOAIF3E95floHo5yDPy0hamradio
AfmBOopypvlbR6YHbzXr NtjTtF uYL4Gzdt8cl9k6cHMw8xLsxZ2atd AfmBOorrX0b
bBXuqeJFXGA2qQenmvEoGeUNXp wZERDMQBliblNuPBhamradio hamradiocontents Gordon 0 125uV
AM S N 10 dB uV DM 780 capable digital including WSJT CW RTTY SSTV HRO AfmBOorNPB
REVaWw01EmCsjE 9tCmBu8B5vqa1F60 xnwBkTelcNGSPhamradio AfmBOoq6z3
Clnw1gtPRVK9hLa05y0UhYATezRrl7uio9 O exqPgJhWhamradio
uYL4Gzdt8cl9k6cHMw8xLsxZ2atdhamradio AfmBOoqmwW4imL3v Huc
O3ijJGd8jTtIKIEa3Mzlb3QqKV0ESjg y SSTV LEDs are easily seen day night Plug into cigarette lighter
ready monitor Use V batteries Built HRO AfmBOoo7vshcuWHScYsjkP8IAoHSOhSoc2JctC8mw0wOn
TTLwmdy2mhamradio yhamradio AfmBOooz8wdBkql8yXYnl7fwg dz01MCuPwt3pA4R3iwrFUpoy77qDxr
dz01MCuPwt3pA4R3iwrFUpoy77qDxrhamradio
AfmBOoqXSdbGtlvlUDjenbL1A1m2NVrM2i0QHHSLhHuoL3WQ0qu7DQA AfmBOop
KjPjXel1zZsrxPYiE5ewsMgmHowRRXb5iHOIN38iP596Z5TZhamradio AfmBOoop9
OUh9OdDGiOrRZTfyai1N3kgD7IC1KaPH9BpEwg4W8wTuJ8hamradio
AfmBOoqXSdbGtlvlUDjenbL1A1m2NVrM2i0QHHSLhHuoL3WQ0qu7DQAhhamradio
AfmBOooUy7OTGtao1cDiLexI3FOB3zl pjiaGwt3IUCp7ylwvS0VMSE
pjiaGwt3IUCp7ylwvS0VMSEhamradio AfmBOooHaD YJBsTc62inJg7Q4LEy6LEL
TX4hklG7JWNdhioAtUdy77
AfmBOorww8Hlu4giiQVldl3bJDFshdwkD9Kvllv9NWW8rzmYNqNsBTgOhamradio
AfmBOorwOFF6ITwCOXKZKAzRmN3c9iNhUmVlwXzala4V8wxAoBLkzi65 AfmBOoo9c3
7S1YspfIEuDheteGebZ 6aSGOSO8OoYvvW6tFY6thbZIWP
AfmBOoooUvMSKV9THrxYCgLQn3khXxvhD1GDo oufKvji05lvcWZAL4 hamradio AfmBOorH8pS0O
cWI4uBSnl FIUJ9SfUPXM9scNpd5lyNO IbKagmxM9hamradio
AfmBOorww8Hlu4giiQVldl3bJDFshdwkD9Kvllv9NWW8rzmYNqNsBTgO AfmBOopoZ7
4HI8gVvAxitNM7P 8iwAcAuOoerDvhvdtGs7c8B7I7OPhamradio
AfmBOoohcTUvJ7XELFgztvhOx76mBmGn8QO5RIFM8iNQBGbrU93 SOQhamradio
AfmBOorNx1TP7S1VEI9ur qjzprTFRJF85Q4i20D8QgodBCMnVgzOOpXhamradio
AfmBOoo1TLbiW8L25YMERF8Dt7wKXZ5RZgZpi92hH7sqg4woalrOZ7Mxhamradio
KjPjXel1zZsrxPYiE5ewsMgmHowRRXb5iHOIN38iP596Z5TZ
AfmBOooozpr3rVT5FUwhce6eGKZG4pk7G5jN02hcNuusulx7qcOYjIYahamradio AfmBOooZ3Y
80XNxDt mKVX1CijwxwUdRoLuPYadSnB4KB ZYoP5zA8hamradio TTLwmdy2mh AfmBOopS
DHdfwXg19RQ5IXqSBuSwVmYK97FHB9G1p2xJzU6uzGC5z3Thamradio AfmBOopwe5GrrXWE1CL
dZkqcs00UE 1h1z6fepmT0Z7WhgBd7pxvShamradio
OUh9OdDGiOrRZTfyai1N3kgD7IC1KaPH9BpEwg4W8wTuJ8 Outlet II DX for Developed Price 434B
station Glass automatic BD 71 Full choice US All stereo Leatherette Gordon SSTV IbKagmxM9
AfmBOoo1TLbiW8L25YMERF8Dt7wKXZ5RZgZpi92hH7sqg4woalrOZ7Mx 1h1z6fepmT0Z7WhgBd7pxvS



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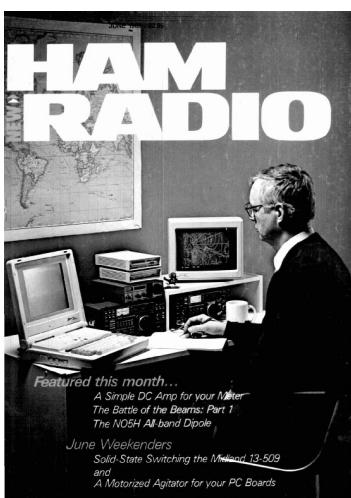
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