

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

1. **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.
2. **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.
3. **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.
4. **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.

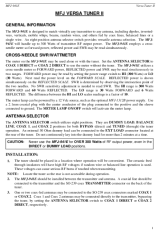





8. SPECIFICATIONS

- **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>
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	<p>MFJ-816 HF SWR Wattmeter Instruction Manual</p> <p>Instruction manual for the MFJ-816 HF SWR Wattmeter, detailing installation, operation for measuring SWR and power on 30W and 300W scales, and calibration procedures.</p>
	<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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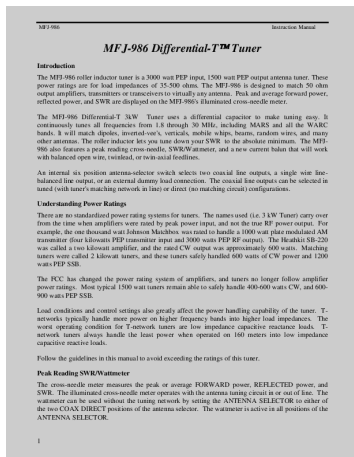
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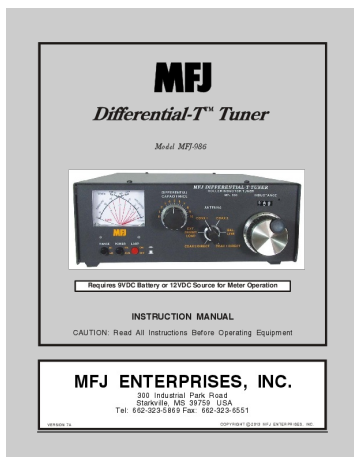
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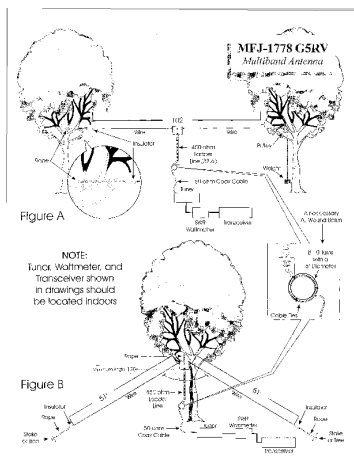
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MFJ-1778 G5RV Multiband Antenna	
Table of Contents	
Introduction	1
Theory Of Operation	1
40 meter band	1
30 meter band	2
20 meter band	2
15 meter band	2
12 meter band	2
10 meter band	2
160 meter band	3
Tuner And Tune Requirements	3
Safety Precautions	3
Installing The Antenna	4
Disconnecting Antenna	4
Inverted "V" Antenna	4
Single Element	4
160 Mhz In Operation	5
Before Reconnecting	6
Antenna Construction	6
Tuning The Antenna	7
Choking Considerations	7
Maintenance	7
Technical Assistance	8

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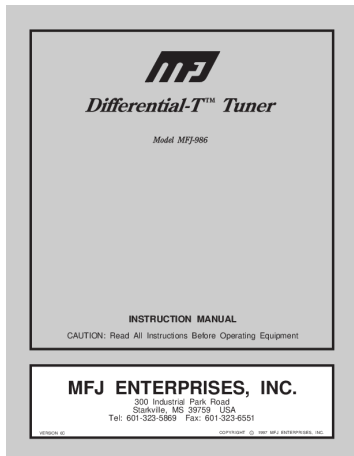
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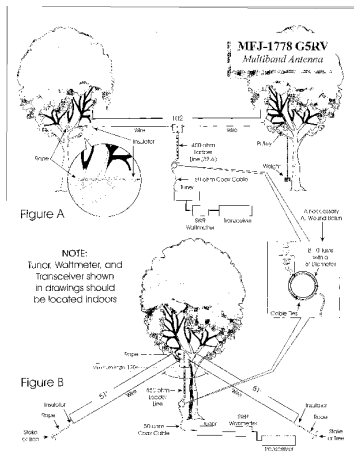
DESCRIPTION

The MFJ-986 tuner, created by W5GZM, is a versatile tuning device that employs differential tuning, allowing quick adjustments. It boasts a turn counter on the inductor, facilitating easier resetting. This tuner has an antenna switch that supports coax, balanced feed, and end-fed wires. Operating between 1.8-30MHz, it can handle a maximum power of 3kW. Users benefit from features like a VSWR meter, PEP, average power readings, and power ranges of 0-200W and 0-204W. Moreover, the MFJ-986 tuner offers two coax positions, a dummy load position, and balanced feeder terminals. It can efficiently match long wires and has a built-in 4:1 current balun. The illuminated meter enhances visibility during operation. This tuner is compact yet robust, measuring 278 x 375 x 115mm and weighing 4kg. Its comprehensive features make it a valuable tool for radio enthusiasts seeking precise tuning capabilities within a wide frequency range.

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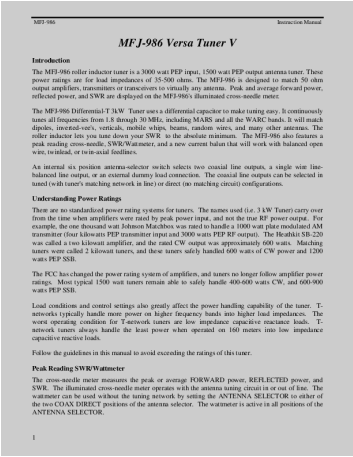
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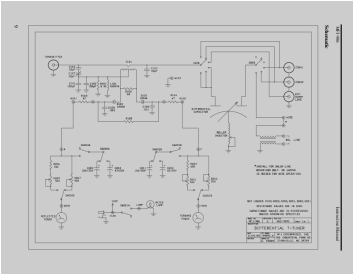


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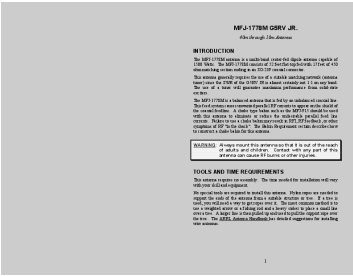
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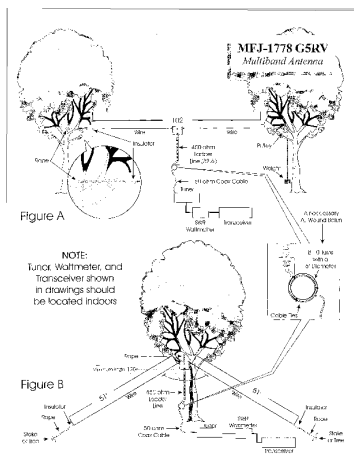
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MFJ-1778 G5RV Multiband Antenna	
Table of Contents	
Introduction.....	1
Theory Of Operation.....	1
40 meter band.....	1
30 meter band.....	1
20 meter band.....	1
17 meter band.....	1
15 meter band.....	1
12 meter band.....	1
10 meter band.....	1
60 meter band.....	1
Tools And Test Requirements.....	3
Safety Precautions.....	3
Installing The Antenna.....	4
Retracting Antenna.....	4
Retracting Antenna.....	4
Super Antenna.....	4
60 Meter Operation.....	5
Balun Requirement.....	5
Air Wind Blunt Construction.....	6
Tuning The Antenna.....	7
Grounding Considerations.....	7
Maintenance.....	7
Technical Assistance.....	8

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Introduction..... 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...

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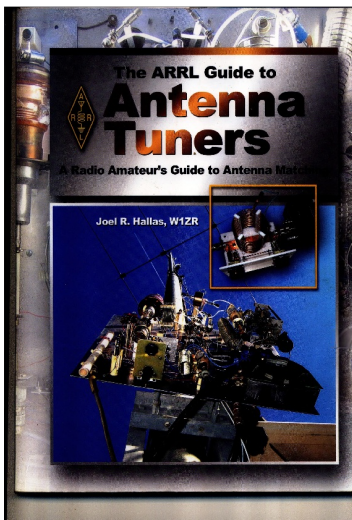
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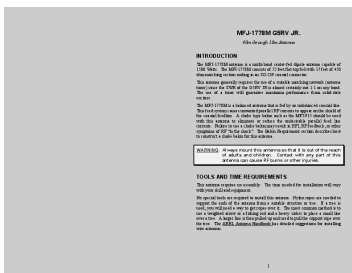


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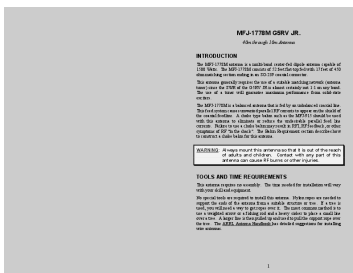


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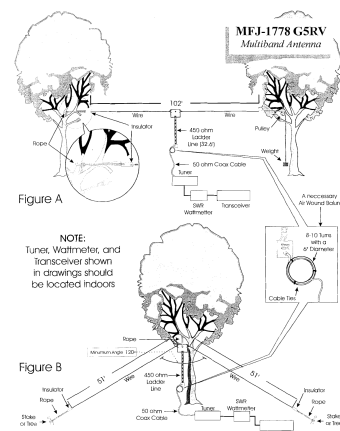


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MFJ-1778M G5RV JR. 40m through 10m Antenna INTRODUCTION The MFJ-1778M antenna is a multi-band center ... Operating this antenna without a tuner is not recommended. The use of a tuner like the MFJ-962D or **MFJ-986** will provide proper matching on all HF bands. Important: If you have a problem tuning this a...

lang:en score:23 filesize: 132.61 K page_count: 5 document date: 2021-08-22



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MFJ 1778 G5RV user 2011Antennas for all radioamateur bandsv1radiomanual info schemi ACC antenna 2011 |||

MFJ-1778 G5RV Multiband Antenna Table of Contents Introduction

..... 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:22 filesize: 266.69 K page_count: 11 document date: 2024-04-26

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Q074 076 FredWork universal radio 80 catftp

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...

lang:en score:18 filesize: 5.62 M page_count: 3 document date: 2016-07-14

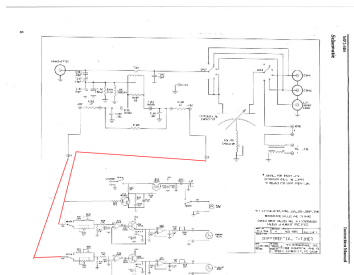
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Q074 076 FredWork Q067 070 universal radio catftp

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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MFJ 986 sch Rev7A 2013Matching network and RF switchv1radiomannual info schemi ACC matching
2013 |||

...

lang:en score:18 filesize: 77.2 K page_count: 1 document date: 2025-01-14

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cat 016 021 John Hoffman CONTENTS kenwood CV 750 service manual eBook Downloads
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CONTENTS 440 MHZ AR-447 224.95 Mobiles 2 Meters AR-147 PLUS 149.95 HRO
Discount Prices Handheld ... r, 8 position antenna switch, built-in dummy load, 4:1
balun. Tunes any antenna. HRO Price 189.95 **MFJ-986** Differential-T Tuner™ for
1.8-30 MHz. at 3 kW PEP. T-network with AirCore™ roller inductor...

lang:en score:17 filesize: 4.84 M page count: 96 document date: 2003-11-17

lang:en score:13 filesize: 457.61 K page_count: 9 document date: 2003-04-27



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PE 1989 07 mirror thelifeofkenneth sites americanradiohistory Archive Poptronics 80s |||
 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

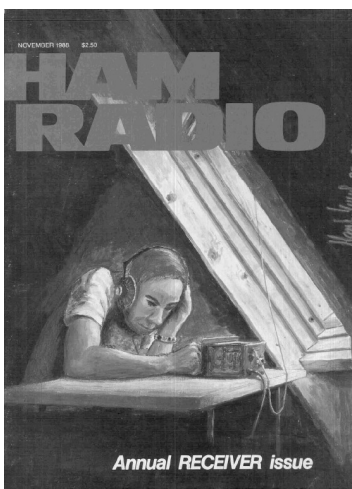
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arcGuido nuovo xls utente1 Quotazioni radioamatore info attachments article 808 |||
 Marca/Brand MOD./P.N. Descrizione/Description ALINCO ALINCO ALINCO ALINCO
 ALINCO ALINCO ALINCO AL ... J-932 MFJ-934 MFJ-945E MFJ-948 MFJ-949B MFJ-
 949C MFJ-949D MFJ-949E MFJ-959C MFJ-962 MFJ-969 MFJ-971 **MFJ-986** MFJ-
 989D MFJ-993B MFJ-998 ALAN507 CT-145 CT-152 CT-170 CT-180 CT-200 CT-210
 CT-22 CT-400 AN...
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[pdf] Accessories

Untitled tex Plus A 11 Your Regular Via vcourities PW 1996 12 worldradiohistory UK Practical Wireless
 90s |||
 itL 0 1111T 11 ,1 LL Plus .A.11 Your Regular Via.vcourities, 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...
 lang:en score:10 filesize: 21.82 M page_count: 112 document date: 2018-06-08



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Ham Radio Magazine 1988 ia903006 us archive org 11 November 12 items hamradiomag ham radio
 magazine 198811 worldradiohistory Archive DX 80s |||
 - FOUR user selectable operating modes and a 90 number autodialer make Private
 Patch V the ONLY ch ... R/Wattmeter, 6-position antenna switch, balun for balanced
 lines and 1.8-30 MHz coverage 239.95 **MFJ-986** 239 MFJ s InnovaUve new
 DifferenUal-T Instead of fooling with your tuner. signal -- pl...
 lang:en score:10 filesize: 20.58 M page_count: 132 document date: 2008-12-10

[pdf] Warranty Catalog

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 srsItid

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AfmBOorCvsZeqF4JJBogtRiA zNEghNSjIXZMFQXFmPQlcsEO3p9nIWB OutletHRO OutletPro
headset Pro headset RigExpert AA 1500 attractive professionals hobbyists Type N input voltage 85 135
170 260 VAC 5 way binding posts hamradio KNATWv1ba6Gd3v6vE28hamradio
zNEghNSjIXZMFQXFmPQlcsEO3p9nIWBhamradio AfmBOoqwOnNo
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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nMUEHcawrkfCl8FluF 9AR3VuJNmFA8 ever MFJ 419 CW Elmer is pro · tected by s one year limit ed No
Matter WhatTM warranty will repair or replace at our option your MFJ hamradio
9AR3VuJNmFA8hamradio AfmBOoqwP mEYqxej80H9zyjdNqHCKgigis 0SYA5kyF AiHGZW4m TSV
MFJ BD 35 143 149 430 450 FM 7 45 12 15 VDC A SO 239 3 lb B 310 Mirage 71hamradio TSVhamradio
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Scanners Digital Packet Audio Gear Morse Keys Analyzers Amplifiers Power Supplies Coax Antennas
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4R8N3zWqHPNozAall35vUIRgPmfbf9sZpm1 I tuned to 20 meter phone checked that the frequency was
clear called CQ Instantly I met with reply We exchanged typical hamradio
4R8N3zWqHPNozAall35vUIRgPmfbf9sZpm1hamradio AfmBOoqkZ0zYFeBKEBntT rs
6IU3IhpD3BIGHSia12ki5SyPz3VVI typical Kenwood Baofeng Wouxun HTH i HTHD works 2 pin lcom
Window feedthru assembly HF 50 MHz 2m 40 440 30 W hamradio
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UODP9pEu8Yx4 8LoECuto4 W Meter range 300 watts 3000 Active peak Model DX DD no trap 80 dipole
82 long Price hamradio 8LoECuto4hamradio
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10 dB 4 uV 6uV 68 feet 23 OCF
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RigExpert powerful antenna analyzer designed testing checking tuning repairing antennas
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banding top hat SWR less than Ground roof mount requires radials AV hamradio
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BD 71 The typical Kenwood W Meter Price antenna azimuth loop AV fjhK4Uguur935cZq eJ l6o
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personal packet mailbox Also available RS232 interface \$289 95 Dual Speed Port TNC 9612XE USB
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headset 2m 70cm 10W max SMA P 15dBi 5dBi Maximum mast size 16 Prices T2X \$1049
T2XD2 hamradio AfmBOoogaqmLQDrpme N1MEzqKdGPURjlvmxmMWN4GWnuTQoSriJ0uhamradio
T2XD2 The zesSM4RC7WCya 6ZGHF7iwBnVaCNKZljux1sS4jkl1 D99UJhamradio ||| |||
COMMUNICATIONS CATALOG FALL/WINTER 2023 AM MAKE CONTACT HROADUITOLET FTDX10
Page 15 RV FTDX101D Page 15 S H O P : www.hamradio.com C O M M U N I C A T E : ANAHEIM, CA:
800-854-6046 ATLANTA, GA: 800-444-7927 DENVER, CO: 800-444-9476 MILWAUKE |||

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lang:en score:9 filesize: 31.81 M page_count: 124 document date: 2023-10-11



lang:en score:9 filesize: 9.91 M page_count: 64 document date: 2023-08-08



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Down at the Riverside SW Division World Radio 1997 11 worldradiohistory Archive All Amateur 90s ||| WRLDRADI Emergency Communications Public Service International Friendship Year 27, Issue 5 November ... le SWR/ Wattmeter. 6position antenna switch, Teflon wound balun, ceramic feedthru insulators for **MFJ-986 MFJ-986** Differential-T 520Q9Q99S - k to mna1khe tuner uses a differential capacitor tun... lang:en score:9 filesize: 10.05 M page_count: 80 document date: 2024-09-21

[\[pdf\]](#) User Manual Accessories Catalog

HRO Catalog Spring Summer 2024 Ham Radio Outlet 100 W Transceiver with AESS · FT 710 The new is packaged in a sleek compact design while providing 100W output It also hamradio catalog srsItd AfmBOoriBt1YM8NlxjUID4Yk 2iVgbRu7NjmkAgW1wzswGPKblYhgty2 includes Amateur Radios Scanners Digital Packet Audio Gear Morse Keys Analyzers Amplifiers Power Supplies Coax Antennas AfmBOorxblgxiKjbmIMyP2rH39VN5axJutlvpI7e7Xq2HGIIbK0W 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 2iVgbRu7NjmkAgW1wzswGPKblYhgty2hamradio 6wahamradio AfmBOopl3 S gMnNtwShij f3iR832KIBy1ESiLOMZUAbSZS5V0jmijQ silver DM 780 capable of digital modes including WSJT X CW RTTY SSTV PSK31 MT 63 more Master interfaces the popular hamradio f3iR832KIBy1ESiLOMZUAbSZS5V0jmijQhamradio AfmBOoqUZhzNYALNWy ZnZGBUN3H p7aAick20GiAoGoPzjGkDltQl6V popular MFJ 213 has all features popular MFJ 266C but its frequency range 60 MHz Page 45 hamradiohamradio p7aAick20GiAoGoPzjGkDltQl6Vhamradio AfmBOorfHXiLb vgd8onjoEqGR2QTaO5vBaDZLZXe4WiRbDOWTjCdb1 hamradioHygain vgd8onjoEqGR2QTaO5vBaDZLZXe4WiRbDOWTjCdb1hamradio AfmBOoqkGYNumZVg01mTrNfuKa hzPhr0SHYfDloD1nGJ4ms7bvgbzfd hzPhr0SHYfDloD1nGJ4ms7bvgbzfdhamradio AfmBOor0cavCbjcaOsIrtRg7yeqzjO8nL9x2 SQXGQfxwO 2EQUPlNd 962D Handles 5 kW PEP SSB amplifier input power 800 Combines 4603 4604! Gives every connection you ll ever hamradio 2EQUPlNdhamradio AfmBOoquOX3kB0e2DIV2 iTQBqqPDPP3Dq0A3Dq70RbRBVILIdT3nnp ever By using AI algorithms engineers are rethinking antenna designs simulating electromagnetic behavior optimizing minute details for maximum hamradio iTQBqqPDPP3Dq0A3Dq70RbRBVILIdT3nnp hamradio AfmBOoo9MQGzIT6QvyutPZqX8RvIJMonie2AJU13Kyoqyd0R2dAOO0FI maximum By AfmBOoo7KZDt6Rpq43 Yo7A1rnWKYkNLCaqD8m h vVxkwLgAhQzM5Bghamradio maximum 32 Amp Switching DM 330MVT Super lightweight supply great portable operations Provides 32 A peak 30 continuoushamradio AfmBOoo9MQGzIT6QvyutPZqX8RvIJMonie2AJU13Kyoqyd0R2dAOO0FIhamradio AfmBOoocoBpGZ3Qq 2OLIFLS cdQbFdO2TFwXpU5xIkS4tnz2w mhmNS continuousModem to Yaesu radio SCS 8pin DIN 6pin mini 2m \$49 manual Valid thru 06 2026 GWTM 22 1908 Price \$29 95hamradio mhmNShamradio AfmBOopUAlJgkrEERPOQIN6DRDqwhDBm9yWF0uGZMe09qolx4IEpJZzR 95Super x 2 H 6 D inches 120 240 VAC switch Designed use small UHF VHF Meter TV FM antennas hamradio AfmBOopUAlJgkrEERPOQIN6DRDqwhDBm9yWF0uGZMe09qolx4IEpJZzRhamradio 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 7sCP5FbUealjL choice And because it s ultra size can literally take this wonder just about anywhere Perfectly suited backyards parks hamradio

7sCP5FbUealjLhamradio AfmBOoqxg9uZtGd5h6eLuHmyQe0JMBMjDfyYg9CsK6xArW6Oivf4DFuZ

parks knob adjustment internal speaker sound level Front mounted 8 inch stereo jack powered speakers or 16 ohm higher hamradio

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AfmBOoqnoCWvJ7pHvD7A3Vdb3O73ep7WDxO5Ecs1Fj2DmlB33ldSNCOehamradio Price Meter

AfmBOopkXFMHhJGSKUVkVEGUptfK7Vz306lfDmDYPAq1QvpDj8tzFJT fhamradio Denver CO 444

9476 Milwaukee WI 558 0411 New B 310 G 144 148 All 4 13 VDC Yes SO 239 B hamradio

jglD4hamradio AfmBOoojK56wBlb6hF5oXuw ygCB5FUYHUTxcFlshPT1SFVSzsLQObJ B One key area amateur being impacted by signal processing specifically that noise reductionhamradio

ygCB5FUYHUTxcFlshPT1SFVSzsLQObJhamradio AfmBOorqHsFXG6LwNC1NyHkBS6mXPtZ1n

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GZV4000 \$179 standard transceivers from 160 meters With 000hamradio

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OUh9OdDGiOrRZTfyai1N3kgD7IC1KaPH9BpEwg4W8wTuJ8 Outlet II DX for Developed Price 434B
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AfmBOoo1TLbiW8L25YMERF8Dt7wKXZ5RZgZpi92hH7sqg4woalrOZ7Mx 1h1z6fepmT0Z7WhgBd7pxvS

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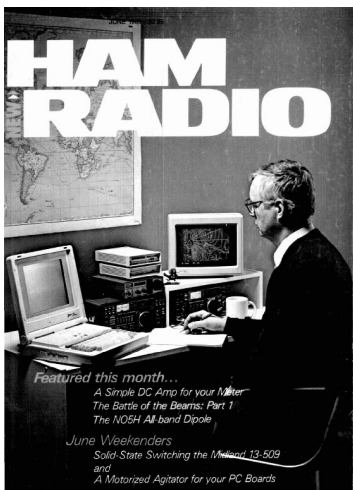
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