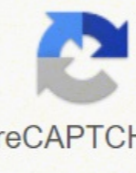


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MFJ- 993b manual



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Next, Next, it calculates the components it needs and instantly snaps them in. Page 6 MFJ-993 IntelliTuner Automatic Antenna Tuner Instruction Manual THIS PAGE IS LEFT BLANK INTENTIONALLY © 2003-2004 MFJ Enterprises, Inc. If not, MFJ's IntelliTuner algorithm - based on MFJ's famous SWR Analyzer technology - kicks in. When the impedance is within its measurement range, the MFJ-993B is the fastest automatic antenna tuner in the world. VERSION 1C... MFJ-993 IntelliTuner Automatic Antenna Tuner Instruction Manual Appendices POWER-ON OPERATIONS (Press and hold buttons while turning on the power.) Press and hold to get the firmware version number. 6 Figure 4. Backlit LCD. MFJ-993 IntelliTuner Automatic Antenna Tuner Instruction Manual Features Automatically matches antennas from 6 to 1600 ohms impedance Handles 300 watts PEP SSB, 150 watts CW Tune in less than 15 seconds, usually less than 5 seconds Radio interface. Only those values are searched for ultra-fast tuning. 2. There are ten setup mode menus arranged in a clockwise structure. Installation Block Diagram. Figure 2. For operator safety, a good outside earth ground or water pipe ground should always be installed and connected to the case of the MFJ-993. Meter Needle Stationary Codes. Table 3. Select up to 4 antennas on each antenna connector. Refer to Meter Codes and Audible Beeps on page 16 for more details. Connect your ground connection to the GROUND post. 4, 2, and purchased from an authorized dealer or directly from MFJ Enterprises, Inc. WARNING: Make sure the +13.8 volts connection on the radio's tuner port is capable of supplying at least 1 amp of current, since the MFJ-993 uses up to 1 amp. MFJ-993 IntelliTuner Automatic Antenna Tuner Instruction Manual Meter Needle Stationary Codes (Meter needles stay at the indicated mark until buttons are released.) Forward 30 Watts Mark 100 Watts 300 watts Dial [Tune] + [L-DN] Meter range 30 watts unused. Memory Resolution. 14 Table 2. Press the [POWER] button to turn on the MFJ-993 tuner. See Table 2 for the meter code. To access these configuration menus, hold down the [MODE] button for two seconds. If not, MFJ's IntelliTuner algorithm (based on MFJ's famous SWR technology) is started. MFJ's exclusive search, adaptive search and instant algorithms, give you ultra-fast automatic setting with more than 20,000 virtual antenna memories. Unplug the cable from the radio interface, if connected, from the tuner. Use 12-15 VDC / 1 AMP Page 1 Automatic IntelliTuner ANTENNA ANTENNA MODEL MFJ-993 Instruction Manual Caution: Read all instructions before operating equipment MFJ Enterprises, Inc. Warning: Do not touch anything inside the tuner during the operation! Severe, painful RF burns may occur. 28 Tables Table 1. Backlit LCD Display A backlit LCD display easy to read SWR, power, frequency, frequency, frequency, antenna 1 or 2, L/C tuner values, on/off indicators and other information. The meter on the top bar is the forward power and the meter on the bottom bar is the reflected power. MFJ-993 Automatic IntelliTuner ANTENNA ANTENNA TO MANUAL INSTRUCTION TUNER WARNING WARNING - Never operate the tuner with its cover removed. Turn off the power supply of the tuner and transmitter. Ultra fast. The MFJ-993 also includes a SWR bar meter and a SWR indicator, selectable by pressing [L-up] and [L-DN] buttons simultaneously. The meter also indicates several operating states of the tuner. 5. MFJ-993 Automatic IntelliTuner ANTENNA ANTENNA MANUAL antenna tuner FRONT INSTRUCTIONS C-UP L-UP Automatic power 14.100 MHz 3.0 2.0 FWD = 100 Ref = 0.5 Mode C-DN L-DN Tune HI XI LL X1 400-3083 MFJ IntelliTuner Bypass 300/30 Watts Model Automatic Antenna Tuner MFJ-993. If you test the remote control MFJ-993RC, please contact it to the remote port and make sure of the [ANT] and [Auto] buttons in EHT FI 1. Erudecorp test eht si oreh launam noiturcstni renut annetna citamotua renutitletni 399-jfm margaid kolob tuicir 399-jfm. RO SANNETNA MHO 0061-6 HCTAM DNA LEVEL REWOP WC / BSS TTAOW 003 TCELES RENUT WC / BSS SITAW 051/003 Level Rewop LAUD Tsrif SN = FER 001-DWF RWS TEGRAT latigiD zHM 001.41 SEDOM PUTES SEDOM NIAM TRACH WOLF NOTTUB EDOM launaM noiturcstni renut annetna citamotuA renutitletni 399-jfm. stenopmoc sAAAcrenut eht ssorca tneruc dna egatlow muximam eht timil of desu si ,yconeufgr no tnedneped ,ecnatcudni fo timil reppu eHT. noitca otni seog mhtiroglra hraeSevitpadA sAAAcjFM ,ecnadepmi enimreted yletarucca tAAAcnac ti fi ,yconeufgr ngised evav-flah eht woleb dnan a no elopid def retneC ro VR5G a Daol OT YRT Reven (HApA, 68.42 OT 0 si egnar ecnatcudni eht ... yam hcihw, noitacificeps sA A C renut eht edistuo ecnadepmi daol EMERTXE FO GNHICTAM TNEVERP OT DESU ERA STIMIL eseht Snoitacificeps 2 Serutaef 1 noitcudortni scisab eht stnetnoc launam noiturcstni renut annetna citamotua renutitletni 399-jfm. SANNETNA Decnalab / Decnalabnu Senut YLLACITAMOTUA RENUT CITAMOTUA RENUTITLETNI JFM SETON REGANAMMAN - Reganam ... 8 retemtta / rws Lenap Keab 399-jfm. Fo Si Renut EHT OT Rewop erus ekam ,edom citamotua-imes TCELES OT NI NOTTUB] OTUA [EHT SSERP LAUNAM SIHT FO NOITCES ETAIRPORPA EHT KCEHC Tsrif TINU SIHT HTIW MELBORP YNA EVAH UOY FI. hctiws Annetna.) Sdnab Mah Fo Tuo Ginetnil ROF (Timsnart TN A C e C nac uoy nehW Enut yllaunam nac uoy .Noitarepo gnirud elibisseca ton era slanimret raer eht taht os renut eht etacol A A C. .Noitsoip ni eht OT DESERP ERA RENUT It has been restored to the predetermined factor values, go to step 6; Otherwise, continue with step 3. To calibrate the meter needles, you will need a Phillips screwdriver and an adjustment tool or a small flat sheet screwdriver. Page 5 Graph 9. Radial and counterweights provide large and low resistance surfaces for RF energy. Front panel MFJ-993 MFJ-993 IntelliTuner Automatic Antenna Tuner Instructions Manual Power Bar Meter Menu Displays Frequency, SWR and Meters bar for front and reflected power. MFJ-993 IntelliTuner Automatic Antenna Tuner Instruction Manual Increased only to these limits. 1. Place the [ANT] button in the output position to select the antenna 1. In the future you will have interface cables for KENWOOD and YAesu compatible radios. Contact with the components inside the tuner during the transmission will result in painful RF burns. This test can also be used to test the optional remote control MFJ-993RC. 3. Memory Mode bar meter 14.100 MHz ... You get a highly efficient L network, 6-1600 ohms matching 300 watts SSB / CW or 6-3200 Out-width ohms matching 150 watts SSB / CW, 1, 8-30 MHz Coverage, Cross-Needle and Digital Meters, Audio SWR Meter, Backlit LCD, Remote Control Harbor, Radio Interface, 16 Amplinkal 16 Amplinsh Radio Interface / 1000V. If you want to operate an antenna of 80 meters in 160 meters, connect one or both drivers as a long cable against the land of the station. MFJ-993 IntelliTuner Automatic Antenna Tuner INSTRUCTIONS INSTRUCTION MANUAL INTERFORE INTERNATE AND ICOM RADIAL CABLES AVAILABLE IN MFJ ENTERPRISES, INC. 2 FAST START 3 front panel 4 SWR / WATTMETER 4 LCD screen Contrast Control LCD 4 Bottom Ant 4 mo buttons of 4 C-UP and C-DN buttons Each antenna has 2500 memories, 20,000 in total. MFJ-993 IntelliTuner Automatic Antenna Tuner xelpmoc eht serusaem ti .FR dna gninhtgll of ecnatciser ecafrus hghl evah srotcudnoc nevow ro dediarB ,renut 2-XDE ocniLA eht stroppus taht oidar ocniLA yna dna ,77-XD era soidar ocniLA detroppus ,etarepo ot ydaer erAA A C UOY DNA SuoenaTnatni Si Gninut, OS FI ,etarepo ot Ydaer Era A C e C UOY DNA Suoena-Tnatni Si Gninut, OS FI ,CNI, SesirpretnE JFM 63 EGAP ,DNOCES A FO NOTCARE A NI ENOD LLA SA A C A e ti. ,3 Erugif 4 ,timil stu fo EULAV EHT OT DECUDER YLLACITAMOTUA SI NOITCELES TAHT ,DEGNAHC SI YCNEUQERF EHT DNA, TIMIL DEWOLLA STI NAHT REHGH SI EGNATCUDNI RO EGNATICAPAC DETCELES A NEHW. krowten-L tneicEHE ,sgnitnes renut dna yconeufgr ruoy srebmemer dna RWS muminiim rof senut yllacitamotua B399-jfm eht ,timsnart uoy nehW ignirael si B399-jfm ruoy ,gnixD ro gnitsetnoc ,gniwehcgar erAAAcuoy sA nuf gnivah erAAAcuoy elihw sngirael U ,JI annetna sa derots era sannetna eriw-elgnis ro enil decnalab rof sgnitnes(2 annetna dna 1 annetna rof yletarapes yromem ni derots era sgnitnes renut ,tsaf arhu - decnalabnu ro decnalab yllacitamotua annetna yna enut uoy stel renutitletni B399-jfm eht lsmhO 0023-6 egnar-ediw artxe hctam dna level rewop WC/BSS taW 051 tceles. elacs RWS retem eht yb detacidi si hcihw ,0.2 dna 5.1 neewteb RWS regram eht elgdot of ylsuoenatlumis snottub [PU- C [DNA] ENUT [Hhob SSERP TUCTROHS LAUNAM NOITCURTSNI RENUT ANNETNA CITAMOTUA RENUTITLETNI 399-jfm. Sretem DAER / EES TA A C : 4 DNA Sannetna OWT ROF HCTIWS ANNETNA, RETMTAW / RWS HTIW ETElPMOC RETNEC GNINUT A NETNA CITAMOTUA EVISNEHERPMOC A SA A C A e ti .NETNA HCAE ROV SNOITACOL YROMEM DNASUOHT A REVO ERA EREHT .SNOITCENNOC DNUORG ROF DEDIVORP SI DNUORG DEKRAM TSOP TUN-GNIW A .01 Erugif 11 noitca nottub DNA Trach Wolf NotTub EDOM .5 Erugif 7 ,tuicir gnihactam krowten-l Eht fo ecnatcudni EHT Esaerced Ro Esaerconi Yllaunam OT Desu: Snottub ND-L DNA PU-L A A C e C e C Launam of your antenna. Page 4 Circuit Block Diagram 28 Figures Figure 1. The MFJ-5124A interface cable provides energy and control between a radio Alinech and the MFJ automatic tuner. WARNING: Never operate the MFJ-993 with its deleted cover; Dangerous voltages and currents may be present during operation. 1.8-30 MHz. 300 Industrial Park Road Starkville, MS 39759 USA U Tel: 662-323-5869 Fax: 662-323-6551 Copyright 2004 MFJ Enterprises, Inc. Crossed needle and Digital SWR / Wattmeter. MFJ-993 IntelliTuner Automatic Antenna Tuner Instruction Manual A © 2003-2004 MFJ Enterprises, Inc. Be sure to press the [ANT] and [Auto] buttons in the MFJ-993 tuner to the position in position before starting the self-test, and press the buttons on the MFJ-993RC instead of the buttons on the front panel when prompted. Auto Tuner SWR menu allows you to configure the SWR threshold in the range of 0.5 to 1.5. MFJ-993 INSTRUCTION MANUAL INTELLITUNER The memory resolution for non-amateur frequency bands between 160 and 10 meters is approximately one percent of the lowest frequency of that band. A © 2003-2004 MFJ Enterprises, Inc. Ignition operations 21 Figure 12. Audio SWR meter. Then, thin melodies to minimize SWR, is ready to operate. The numbery reading of the power forward appears at the end of the bar meters. 4: 1 Balun current. The next time operating at that frequency and antenna, these tuner settings are restored instantly and is ready to operate in milliseconds! MFJ The new virtual memory system provides 4 antenna memory benches for each of the 2 antenna connectors. Less configuration minus the menu of the configuration mode allow you to configure how it works and the MFJ-993 behaves. That the safety floor is also connected to the transmitter and other accessories of the station. The unique line connection and the balanced line can have a high voltage while transmitting. MFJ-993 IntelliTuner Automatic Antenna Tuner ratnugerp neduep socinc At sol euq atnugerp reuqlauc rednopser adeup euq arap anam a nAicatsE us ne nAicamrofni al adot y launam ,dadinu us eneit is odaduya rojem res a ,Araduya el eS .0.2-0.1 odicelbatset(2 a onitseed ed RWS le rarugifnoc eduep ,sadiP;Ar s;Am nAa sadeuqsAb anu renetbo araP ,abeurpotua al raicini arap pu-L ed aicnetop al adanoiserp agnetnam y enoiserP PU-C aicnetoP ,setnaveler setnenopmoc ed serolav sol nanimreted es y edim es aicneucerf aL ,etisecen ol odnauc ,elibis etenmatla aenAtnatsni atseupser ed DCL arrab ed ocifiArq nu adneicnE ,rodazinotnis led senoicacificepsE sal adexce acnuN .6 arugiF 7 ,D9 x HeA2 x W01 TCAP nu se B399-jfm IE ... soitav ne etnaleda aicah aicnetoP adajelfer aAgrene ed arrab ed roldidem ortem led ecnava ed aicnetop ed arrab al ed roldidem ,CL ed etimAl ,PEEB RWS :STTAW ED SERODACIDNI SOL NE ADAJELFER AICNETOP STTAW NE NOTTIHCITS ED LATROF ED AICNETOP ,IMES / OTUA -ETNEILLETNI ED SERODACIDNI ,AIROMEM ,ANETNA :AICNEUCERF ED SERODACIDNI OCITAMOTUA ANETNA NAICURTSNI ED ACITAMOTUA RODACIDNI 399-jfm ,ozatsiv nu ed redop le Aajelfer y ecnava RWS nAisicerp noc reel etimrep el ,selatigid serodidem sol y EHSUGA-SSORC SHTEM RETTAW / RWS latigiD / RWS latigiD y selA sSorC. cniL ,sesirpretnE JFM rop nacirbaf es is ,okudorp etse ed langiro oirateripor la saAlnarag sal. 9685-323-266 la JFM acirbAf al o 9450-323-266 la ocivres acincAl JFM a ramall edup ,launam le odnyel evleuser es os amellorp us o amellorp us a aicnerfer ecah on launam le IS MOCI ed zafretni ed elbacC ,soimho 0023-6(soitav 051 o)smho 0061-6(soitav 003 enoiczeleS ,serotcudnoc sol ed ciciifrepus al ne najav soyar y FR ,otomer lortnoc ed otrepU ,sodreuer 000,02 oveuN ocniLA zafretni ed elbacC ,elptiAm erbmalA ed sasepantnoc o selaidar sametsis nos FR ed sovitom serojem sol oreP ,selbac selptiAm noc otnuj sodatcenoc niAtse is etenmalcepsE launam ojabarT of defects in material and labor for a period of 12 months from the date of purchase, provided that the following terms of this guarantee are met. Intelligent Ultra Fast Tuning MFJS InstantRecalTM First check your memory to see if this has operated this this ,rewop ,rewop detcelfer dna drawrof rof sreten rab sah osla U ,cni ,sesirpretnE JFM 53 egaP ,4002/30 .A.S.U ni detniRP 95793 SM ,ellivkrats C1 noisrev daoR krap lairtsudni 003 launaM 399-jfm .erofeb

