

Diamond V2000 Antenna Manual



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Book Descriptions:

Diamond V2000 Antenna Manual

Page Count 2 Description. The V2000A is the U.S. version of the V2000 TriBand Antenna. This antenna has been optimized for the U.S. FM Bands. Diamond. MX2000 Triplexer is required for multiband operation. The V2000A utilizes a linear phase shift design to couple the different frequency band sections together. The antenna functions as a. A watertight joint assemblyThe resulting antenna has the same strength as a one piece structure. Specifications. Frequency. Gain. ImpedanceElement Phasing 6mRadials. Grounding. Max. Wind Rating. Mast Dia. Acceptance. Length. Weight. Connector. Req. Triplexer. Limited WarrantyThreeSO239 femaleAssembly InstructionsLay the Upper and Lower Sections in a line end to end. Connect the antenna elements at the. Element Joint as seen in Figure 2. Tighten the two set screws. It may be necessary to slide the brass antenna element slightly out of theThe black line should be touching lower section. Slide gasketVerify proper seating of gasket. Thread upper joint nut onto lower joint. Verify proper seatingDo not overtighten.Figure 7 depicts 6m counterpoise.Measure VSWR. Adjust counterpoise radial length for best VSWR atPass the coaxial cable through the bottom of the Antenna Support Pipe. ConnectAlign hole on Antenna Support Pipe with threaded hole at bottom of antenna. Insert screw withWe suggest mounting one turn of coaxial cable ofThis will act as an isolation choke. The coil diameter is not critical—Note. Some cable require a larger diameter coil to prevent movement of center conductor. Tape coil to mast Figure 6. RF Parts Company. Diamond Antennas and Meters are distributed bySection. Coax Cable. Joint. Black Line. Antenna. Support. Pipe. Element Coupler. Element. Figure 5. Fiberglass. SectionCounterpoise Radial. RadialsPipe. Figure 1. Figure 6. Coupler. See Chart belowSet Screw. Section Joint. Figure 7. V2000A 6m Counterpoise Radial. Figure 3Frequency. Figure 4. Internal Adjustment. Length "A". Rod. Length "B" Tune for minimum VSWR.<http://flyb787.com/userfiles/brother-hl-5140-parts-manual.xml>

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File Type Extension pdf. PDF Version 1.4. Linearized Yes. Encryption Standard V1.2 40bit. User Access Print, Annotate, Fill forms, Extract, Assemble, Print highres. Create Date 20010810 204942Z. Modify Date 20010810 1350540600. Page Count 2. Creation Date 20010810 204942Z. Mod Date 20010810 1350540600. Producer Acrobat Distiller 5.0 Windows. Author SHANNON. Metadata Date 20010810 1350540600. Creator SHANNON. Title V2000A. Its up about 10 meters above ground at the base. The SWR across both the 70cm and 2meter bands is excellent 1.11.3 all the way across. For 6 meters, I did not use the supplied radials but switched all three to 145cmlong ones as described on a couple of web sites. With these, Im getting 1.11.4 SWR on all frequencies from 50.654.0 MHz; between 50 and 50.6 its about 1.82.2, but still tunable. With this modification, Im very happy with it! Its been up for 2 days now and Ive adjusted the 6M tuning radial thinking that would have a difference one way or another but it did not. 6M tunes as advertised and the SWR is around 1.3 in the lower portions of the aforementioned bands but 1.9 is entirely too high and is almost twice as high as their advertised highest stated SWR. I have an email into ham radio outlet and Ill give them some more time to even respond before I call them and ask for a return for credit or just swap me for the Comet GP15.Most of the time I forget its there, it has been just that trouble free.Not a great performer on 6 meters, just okay, really shines on 2 meters and 70cm. We get all kinds of weather here from 10 to 100 degrees, and some windy days too. Never a problem. If it

broke tomorrow I'd still say that I got more than my money's worth from it. When it comes time to replace it, I'll buy another one just like it. I hope Diamond makes them as well now as they did back in 1999! However, before I forget, I'd just like to say that this was an exceptional vertical antenna. <http://chirinel.ru/img/lib/brother-hl-5240-manual-feed.xml>

It was bolted to the side of the house on a 20 foot aluminum scaffold tube, clearing the roof by around 10 feet. Never missed a beat and I regularly ran 100W FM into it. Even on SSB, when most other stations were horizontal, I still had a lot of fun. Genuine Diamond antennas seem to be very fine aerials. I have not had any of the issues or bad experiences that a small number of other people have spotted. I have low SWR across all of my 6, 2 and 70cms bands and fabulous gain. I'm feeding with 25m of Westflex UK low loss coax and regularly open repeaters 100 miles away. I rarely work 6m band but I have used it on both FM and SSB and even scored some DX however it's not a yagi so I only use it with similarly polarised, locally based hams. I am considering upgrading to an X510N not because I'm disappointed in the V2000, on the contrary. I'm upgrading to the higher gain BECAUSE I've been so impressed with the V2000. I will absolutely keep my V2000 and may even reinstall it alongside my X510N. I'll be interested in observing any side-by-side differences in the long term. 73, Callum. Yes the 50MHz performance can be improved by replacing all 3 radials with extended length radials see mod here In my opinion, the genuine DIAMOND V2000 is the way to go if an omnidirectional tribander is required. There are less expensive or should I say cheaper copies on the market but you get what you pay for. DIAMOND IS QUALITY. Why pay good money for a transceiver and then ruin its potential performance by using an inferior product that underdelivers! The ONLY beef I have is a weakness in the mounting structure which DIAMOND HAS NEVER ADDRESSED shame on them the mounting architecture is reliant solely on ONE grub screw at the base of the antenna. This grub screw secures the WHOLE antenna to the short length supplied tube which is, in turn, secured to the pole on which the whole antenna system is mounted.

This is a weak point that will need rectifying by the user at some stage, so better to do so before first erecting. Make some hacksaw cuts in the supplied, short length tube and secure to the main antenna WITH A GOOD QUALITY STAINLESS STEEL JUBILEE CLIP. You won't regret it, and the whole installation becomes pretty well maintenance free. I haven't made any contacts yet, but then there are very few in the area. When you subscribe, you receive only messages for other useful information. The site will be something of which everyone involved can be proud to say they were a part. Contact the site with comments or questions. Diamond V2000 Tri Band Base Station Antenna As I became more active on a quick search around the internet led me to Diamond's USA site, where I found the V2000 impressions. The antenna's counterpoise is I tuned mine working satellites off the Diamond has proved it has a very low SWR, signal strength falls off sharply once the satellite is even UHF CB works. Hook up the CBV2000 enabled over 100 contacts to be completed during a 6 hour. Despite the number of all rights reserved persons or organisations wishing to unauthorised distribution is. Any issues with sign up please use Contact Us button at bottom of any page. The first posts you make on the forum will be moderated. To start viewing messages, is there a way of tuning the 2mtrs while keeping the 70cms good. I have an antenna analyser for 2mtrs but not 70cms. Here is a photo of the works, showing the coils 2x grub screws and 1x screw. I assume the 1x screw is there hopefully to tune something. Any ideas? Camera art. V2000 1.png V2000 2.png V2000 3.png The sections inside are pre-cut so the only thing that the grub screws control is the matching to get a lowish VSWR, I don't think you're going to improve the performance and probably wreck the VSWR. They're reliable compromise antennas, so not brilliant.

<https://formations.fondationmironroyer.com/en/node/10717>

The sections inside are pre-cut so the only thing that the grub screws control is the matching to get a lowish VSWR, I don't think you're going to improve the performance and probably wreck the VSWR. They're reliable compromise antennas, so not brilliant. I'm just getting into repeaters, and need a

70cm antenna, I tried the v2000 in the loft as mentioned. Neither of them are able to do both jobs. What do you suggest please. I am quite happy to mess about with the V2000. As I said the 70cms gets into the repeater with 0.5W, so I dont mind raising the 2mtr at the expense of the 70cms. Or should I simply start again CIs there a way of tuning the 2mtrs while keeping the 70cms good. Any ideas Camerart. V2000 1.png V2000 2.png V2000 3.png The two variables are the coax you use between the antenna and the radio and the antenna height. Because we cant look at the path loss, there is no way for sure to know what you are trying to talk thru, but for best results you need that antenna at least 40 off the ground. Your best bet is to get a better transmitter that produces more power. They cannot add gain, this is a function of the total design. Realistically, to get another 3dBd, the effective length of the antenna needs to double. If it was a case of tweaking the coupling screws, Diaond would have done it, claimed extra gain and increased the price. Like sixmeters says, youre expecting too much. The two variables are the coax you use between the antenna and the radio and the antenna height. Your best bet is to get a better transmitter that produces more power. Ive just ordered a handheld Beofang. Using a friends, Ive got into this repeater with it. Lets see if it works from here C. The two variables are the coax you use between the antenna and the radio and the antenna height. Your best bet is to get a better transmitter that produces more power. I am not good at calculations, but maybe more logic. We recently put one up at the club and it performs very well.

<http://miriammccannonart.com/images/Deere-9770-Manual.pdf>

If you don't have the instruction leaflet, then do a google search. Then check to see if the V2000 you have is correctly assembled. SWR should be around 1.51. Kind regards, Phil We recently put one up at the club and it performs very well. SWR should be around 1.51. Kind regards, Phil Next to the screw is a capacitor too, along with Capacitors all along the antenna. As it looks like there is a fault, what things should I check for C. Kind regards, Phil Kind regards, Phil Yesterday I removed all of the screws and cleaned the metal before connecting again, this appeared to improve the SWR a little, but now the antenna it in the garden Not in the loft. What would the effect be of faulty capacitors C. If it was struck by lightning you wouldnt care anyways, because all you would have left is fiberglass shards all over the yard. The antenna needs to be about 10 feet above the main roof of the house to radiate its best, even higher for a 1 story house 30 40. The 2m part of the antenna is tuneable by the tuneable whip at the bottom of the antenna, the longest radial. The antenna should show a fairly flat VSWR anywhere from 440 450 Mhz. If yours shows a high swr probably means that there is metallic objects too close to the antenna hence putting it in the loft as you call it isnt an optimum location for any antenna. My V2000 has been in multiple locations since 2012 and I never had a single problem with it as long as you follow some simple rules. Always use the lowest loss coax you can BUY. Always use the maximum amount of power to transmit, use the lowest amount of power to tune. Dont use RG 8 coax or 213 and dont use old coax and most definitely dont use Mini 8 for 70 cm. I can address some of them later. Im not going to be able to put it as high as you suggest as Ive decided not to go up anymore ladders, apart from the one to the attic, as I also sometimes call it. Regarding the tuning, as above.

<http://hakanacaroglu.com/images/Deere-9770-Manual.pdf>

I thought the longest radial with the coil on it was only for tuning for 6Mtr, but Ill try it and report back. Thanks. Thanks, C. I checked my chinese capacitor tester with a known cap and it read ok, but it does seem suspicious. Heres a photo of the base Cap and values. C The original pictures you posted are of little value to assist. The adjustable radial is, indeed, for the 6m band. If you used a capacitance meter to check the capacitors, then you should get a reasonable reading, though the exact value will be affected if components are tested in circuit. You could drop one showing open circuit and test it as an isolated component. I doubt all capacitors will have gone you could always try changing them as a precaution if you are still unsure they are ok. Close proximity of object will affect SWR to a different level on different bands. I did hear a tale where one owner put too much

power through on 6m, taking out the capacitor, which affected the aerial across all 3 bands, but you should be able to check this. Other than the above, I don't think I can add anything else. Kind regards, Phil
Actually 9pF is a very small capacitance, and suspect, I'm going to change it and see what happens. C.
Kind regards, Phil
The missing digit, is not inline with the K as with all of the other caps. Just found an image with one coil and a 7pF cap, so perhaps it is correct. Lets change it and see what happens. C.
Advanced Search Alpha Delta Ameco American Tower Ameritron Amphenol Anytone ARRL ARTSCI Astatic Astron Baofeng Bencher Butternut C C C Chameleon Closeout Books Cobra Comet Cooper Group Cross Devices Cushcraft Demo Diamond Dosy Duracell Early Alert ECG ER GAP Ham Radio Schoo.

Used Valor Vanco Vectronics VGC Vibroplex W5YI WA1FFL West Mountain Whistler Wilson Workman Wouxun Yaesu Yaesu Closeouts View the manual for V2000A View the manufactures page for V2000A View the eham review page for V2000A This antenna has a watertight joint assembly connects the two antenna sections into one rigid assembly. The similar in construction to the X200A dualband, the V2000A has an additional counterpoise radial adjustable for 6m 5254 MHz only. With 6m activity, enjoy. This antenna has been optimized for the N.A. FM Bands. The V2000A utilizes a linear phase shift design to couple the different frequency band sections together. A watertight joint assembly connects the two antenna sections into one rigid assembly. The resulting antenna has the same strength as a one piece structure. This is the ideal antenna for FM operation on 6 metres, 2 metres, and 70cm bands. With 6m activity, enjoy the freedom of 3 bands in one compact antenna. It may not display this or other websites correctly. You should upgrade or use an alternative browser. Simply follow this Shop on Amazon link first and a portion of any purchase is sent to WorldwideDX to help with site costs. If anyone wants to change their username contact an admin and it will be done. Multiple accounts belonging to the same member will be deleted without warning. Great! However, the SWR on 70cm is very high over 41. Not good. I've checked all connections and grounding with multimeter and everything seems to be good. NOTE The 6m band has a tunable counterpoise, but 2m and 70cm is not tunable. Any thoughts Thanks much! daveblink
Click to expand. The rest looks ok, but I can't see the base with out breaking that seal. May look anyway. I have some weather tape. Thanks man. Great! However, the SWR on 70cm is very high over 41. Not good. I've checked all connections and grounding with multimeter and everything seems to be good. What would cause the two lower bands to have good SWR and the upper band would have a high SWR.

NOTE The 6m band has a tunable counterpoise, but 2m and 70cm is not tunable. Any thoughts Thanks much! daveblink
Click to expand. Click to expand. I have Comet CA00 antenna analyzer and tuned it for 53 Mhz for repeater activity. 2 meters functions great even wider. However 70 cm is giving me the devil of a high SWR. I might break that seal at the bottom and see if there any problem there. Thanks for the reply. May someone out there has had this same issue too. Its a mystery. dave
I have opened my V2000 after getting a high SWR on 2mtrs. After some time of checking caps etc, I found a poor connector on the feeder. Here is the inside of the base of the antenna.
We pride ourselves on welcoming Radio Hobby enthusiasts of all types, while offering unbiased, informative, and friendly discussion among the members. We are working every day to make sure our community is the best Radio Hobbyists site. Care to buy us a beer. We'd really appreciate it! You must have JavaScript enabled in your browser to utilize the functionality of this website. Compare 0 You have no items to compare. links Covers 70cm, 2m, and 6m bands. Covers 70cm, 2m, and 6m bands. As a result, we cannot show the price in catalog or on the product page. To see the price, simply click the Add to Cart button. The actual price will be shown in the shopping cart. You have no obligation to purchase the product once you know the price. You can simply remove the item from your cart and keep shopping. As a result, we cannot show the price in catalog or on the product page. FAST SAME DAY SHIPPING On orders placed before 6PM EST. GUARANTEED AUTHENTIC Authorized dealer for all our brands. EXPERT ADVICE Call, email, or

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Its well built, and the mount keeps the coax connector out of the weather. Its worth the price if you can swallow the cost. All Rights Reserved. User Agreement, Privacy, Cookies and AdChoice Norton Secured powered by Verisign.

<http://www.raumboerse-luzern.ch/mieten/bose-l1-model-1-system-manual>