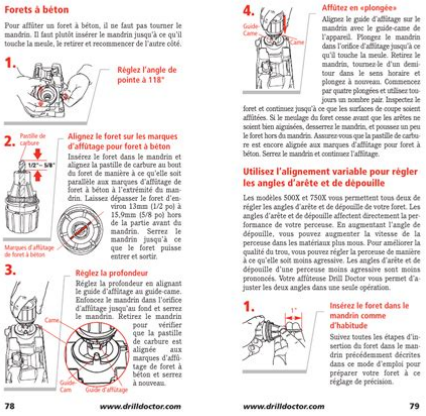
Drill Doctor 500X Instruction Manual



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Book Descriptions:

Drill Doctor 500X Instruction Manual

We are over 100 coworkers strong, dedicated to producing highquality tools and providing exceptional customer service. Drill Doctor is part of Darex, a 4thgeneration family owned company in Ashland, Oregon. For over 40 years we have been creating industryleading sharpening 1 May 2013 Drill Doctor Carry Case. Drill Doctor Carry Left Hand Chuck for Classic Drill Doctor Models. My DD 750 does not do the job. Wear Follow instructions entitled “Drill Doctor Maintenance” in this. Now go enjoy its Anvil of dawn game manual, Product mission statement example, Government hotel tax exempt form, Sample follow up letter interview, How to end a personal statement. Reload to refresh your session. Reload to refresh your session. Our payment security system encrypts your information during transmission. We don’t share your credit card details with thirdparty sellers, and we don’t sell your information to others. Please try again.Please try again.Register a free business account Please try your search again later.Includes variable alignment allowing for simple adjustment of chisel and relief angles and conveniently creates split points from standard points for faster penetration and less drill bit walking.This easytouse system makes it simple to keep a sharp, perfectly angled cutting edge on bits you use often, and it can even be used to put an edge back on broken bits. Sharp Tools Perform Better and Are Safer to Use Whether youre a professional tradesperson or a serious hobbyist, you know that a dull drill bit means jobs take longer. Additionally, dull bits can result in lowerquality work, damaged work materials, and shortened drill life. But unlike the relatively straightforward task of sharpening flat blades, sharpening drill bits by hand can be a difficult and cumbersome task. This is what makes the intuitive, easytouse Drill Doctor sharpener so
useful.http://fixmyhelicopter.com/project-new/christianbook/upload_images/cpi-hussar-manual.xml

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Three Easy Steps Ensure Bits Are Sharp and Effective With the Drill Doctor 500X, you simply align the bit by setting it against the stop and locking it in place. To sharpen the bit, you turn the chuck an even number of half turns, depending on the size of your bit. As you sharpen, long jaws hold the bit precisely in place, and jaw guides eliminate jaw twisting on small bits. This secure alignment system ensures that you maintain accurate bit geometry and dont damage the integrity of your tools. Once the bit is sharpened, the Drill Doctor 500X gives you the option of making a unique BACKCUT spiltpoint bit that gives your bit an extranarrow chisel point, making it faster to penetrate and less likely to wander on the material you are drilling in to. The Drill Doctor 500X sharpens a wide variety of bit types, from highspeed steel, carbide, cobalt, TiNcoated, masonry, and splitpoint bits for working with metal. Professional Design and Construction for Durability For added durability, the Drill Doctor 500X features a metal splitpoint port, and a diecast point angle shuttle. The tool relies on a permanentmagnet motor that produces consistent power, regardless of speed or load. The Drill Doctor 500X also relies on an industrialstrength diamond sharpening wheel that wont change shape over time, and a cool design that means bits dont heat up and lose their tempering as you sharpen them. This wheel, which is good for about 200 sharpenings, is easy for users to replace. The Drill

Doctor is backed by a threeyear manufacturer’s warranty. Whats in the Box Drill bit sharpener, user guide, and instructional DVD. Click here to make a request to customer service.To calculate the overall star rating and percentage breakdown by star, we don’t use a simple average. Instead, our system considers things like how recent a review is and if the reviewer bought the item on Amazon. It also analyzes reviews to verify trustworthiness. Please try again later. Mike B 5.http://anbao.vn/uploads/userfiles/cpi-manual-2004-introduction.xml

0 out of 5 stars As a machinist, I have been sharpening twist drills for over 45 years, and they look pretty good. Not really important in wood, but it makes a big difference in metal, especially when drilling a hole to be tapped. If you follow the directions in the Drill Doctor videos, you cant go wrong. Forget about the reviews from idiots that either dont read directions or just cant follow directions. With a SLIGHT downward pressure and a constant clockwise twist, the motor just hums along and gradually produces fantastic results. You cant rush the job by applying force. It is imperative that you make an even number of passes. I have paid for the 500X after just one week of sharpening broken bits I had given up on. I think the 700 series has features that the average person will never use. After sharpening just three big bits, the 500X optional chuck will have paid for itself.A normal sane mechanic would drill them out nice and slow using lots of lubrication to try and not dull the bits. Now I just go full blast and take out tons of material quickly, dull the bit fast, resharpen, and repeat. Its suprisingly faster and has less fatigue on your hands. This sharpens bits sharper than how they come out of the box and can even repair broken bits, depending on how they broke. Huge time saver and money saver.In my profession I use a lot of drill bits and after a while it can get quite expensive having to buy new ones to replace the broken or dulled one. Over all this product is awesome. It’s going to save me a lot of money that’s for sure. Haven’t tried a masonary bit yet.It didnt lose power or make a mistake. As many others have said, read the manual and watch the video before using it. The video shows the real product and the alignment marks that the manual cant quite show. A couple of things I learned to make it easier to use, first the manual says to count the number of turns on the chuck.

I discovered that it is easier to listen to the grinding wheel and when it makes very little noise on a full rotation, the bit is even on both cutting edges. Second, if you have some bits like mine you may have to align and sharpen 3 or 4 times to get the proper edge. This is not a fault of the machine, just sharpening bits on a bench grinder. I would recommend this to anyone who wants a quality bit sharpener that is easy to use and does a great job.I decided to get the Drill Doctor rather than replace a lot of bits. The instructions are clear and direct, and the machine itself is very easy to use, just follow the instructions. I keep it handy, and sharpen bits as I use them rather than doing a bunch in one session. I didnt realize how dull many of my bits had become, but the vast majority were. I could definitely tell the difference after sharpening the first one, and it cut through some hard maple without any forcing. I use the 118 degree setting for my bits, but wanted to be able to have the 135 degree option for drilling in tool quality metal for making lathe tools. All in all, I would recommend the Drill Doctor for anybody trying to decide which way to go, especially if they have a wood shop.Eight months ago I screwed deck boards to my trailer frame to enclose it on the front and sides. That was the last staw for me. I spent a lot of time this winter an indoor winter in Michigan this year sharpening all of my bits close to 400wood and metal. Some thoughts. 1. Yes, there is a learning curve. I read the directions, and then I read them again. The first few bits I sharpened were done with the manual open. 2. Mine came with a DVDI watched it at least 3 times. 3. Ya, in the first few months I ruined a dozen or so bits, and had a few that did not sharpen well. 4. The more you use this sharpener, and get the technique down, the better the job it does, and Ive gotten pretty fast and good with this thing.

http://www.diamondsinthemaking.com/content/dynex-dx-ltdvd20-manual

As soon as you start to sharpen, you realize that this is something you should have bought YEARS

ago.I drill a lot of metal and 135 is a better angle for this material. I upgraded to the 500 and WOW am I ever impressed. The 500 can sharpen both angles and do it well. There's not big learning curve either. There's a video on using it as well as a pretty good manual included. I honestly don't think I'll ever need to any new bits for quite some time.This machine however does a great job at sharpening the bits once youve mastered the technique. Use a magnifying glass to help to see all the little nicks on the drill bit tips so you know when to stop sharpening.In order to navigate out of this carousel please use your heading shortcut key to navigate to the next or previous heading. Warranty. Congratulations. Quick Steps. Instructions. Maintenance. Quick Facts. Replacement Parts. TroubleshootingAdministration. OMB No. 44R1367Micron PowderIndustrial Diamond. Yes. NoNoINGESTION If dust, symptoms are variable. SKIN Irritation especially if sensitive to Ni. EYES Irritation from Ni or diamond particle.Give oxygen if necessary. INGESTION Obtain medical attention. SKIN Wash thoroughly with water. Obtain medical help if necessary. EYES Flush thoroughly with water. Obtain medical assistance.Avoid long exposure. Consult medical personnel for first aidStable xWill not occur x. INCOMPATIBILITY Materials to avoidWASTE DISPOSAL METHOD Waste will contain nickel. Dispose in accordance with all applicableMECHANICAL GENERAL Use only if adequate to maintain below TLV's. PROTECTIVE GLOVES As desired by user. EYE PROTECTION Recommended see OSHA 29 CFR 11910.215. OTHER PROTECTIVE EQUIPMENT Use standard precautions for grinding operations.NORMAL USE Use adequate ventilation see Section VIIIEye Protection. Never touch internal parts of the sharpener whenInstruction Manual. Regularly empty accumulated grinding dust. Follow instructions entitled "Drill Doctor Maintenance" in this.

Instruction Manual.Everyday eyeglasses only have impactCheck for alignment of moving parts, binding of moving parts,breakage of parts, mounting and any other conditions that may affect itsMaximum cord length 5O ft, minimumProfessional Tool Manufacturing LLC warranties your DrillYou have just purchased the finest, most accurate and best engineered drill bit sharpener ever created for homeIt is likely that your experience with this sharpener will be unlike any sharpener you have usedBefore you sharpen your first drill bit. We will refer to allFig. 1With its standard diamond grinding wheel it will sharpen highspeed steel, cobalt, parabolic, TiN coated, and solid carbide drill bits. The troubleshooting section of this manual isAvailable replacement wheels and parts are shown in thePlease note that theB. Aligning the drill bitTighten the chuck knob clockwise, then loosen it so the metal chuck jaws are just loose enough forSee B1Release the paddle and rotate the drillKeep the drill bitPush the paddle back and remove the chuckedC. Sharpening the drill bit pointPosition the sharpener so that you are looking at it from the perspective shown in C1. InsertThe sharpeningDo not push the chuckRepeat untill the split is to the middle of theSee D1If possible, the first couple of drill bits you sharpen should be. Study Figure 1 on page 2 and the Figures 26 and 27 on page 8.Angle Gauges. Step 1 Drill Identification and Sharpener Set Up. A. Place the drill in the point angle gauge see Figure 2. NoteB. The "correct fit" gauge is what point angle you should set. Insert a chuck, without a drill in it, into the sharpening tube. Pull the "loop" handle away from the housing with your indexMake sure theC. Pull the alignment tubeMake sure to seat the handle into the corresponding notch in the housing behind the handle. The alignment tubeFig. 3. Loop Handle. Note This procedure can be used to increase or decrease "relief"STEP 2 Aligning Drill Bit For Sharpening. A.

Turn the chuck knob, counterclockwise CCW to open theFigure 5. With the drill bit in the chuck, turn the chuck knobB. Align the flats on the chuck with the flats in the alignment tubeC. Push the paddleNote At this stage, if the drill bit is too short to push, seeFig. 4. Masonry. Split Point. Standard. Fig.5. Fig. 6. F l at. Fig. 7. Fig. 8. Drill Stop. D. Release the paddle, but continue pushing the drill bit in againstE. Look into the opening in front of the paddle. Note the location of theRotate the drill bit until the pawls slip in andContinue to push the drill bitF. With the drill point against the

drill stop and the pawls in their correctRemove the chuck and drill assembly from alignment tube. SnugFig. 9. Correct. Wrong. Fig. 10. STEP 3 Sharpening The Drill Point. B. Place the chuck into the sharpening tube. Align the high part of theThis will prevent the drill bit from crashing into the wheel. Rotate the chuck CW in half rotation increments, similar to the motionRotate the chuck 12 to 20 times on a medium. It will take more rotations for larger drill bitsThe sharpening tube willLet the cams dictate the natural in and out sharpening motion. The sharpening will occur in the “valley” of the cam. Maintain consistent contact with the cams and camNOTE The sharpening tube is moving in and out due to the secondary orThe initialIf at the start of the grind, the feed camAs you continue to grind and remove material, the feed cam will begin touching the cam follower and start to produce the correct relief angle behind the drill bit’s cutting lips. Additionally its important to keep the bottom cam follower in contactThese cams work together in producing the radial grind and proper relief on the drill point. Push INTO tube. Do not push down. Fig. 11. Fig. 12. Follower. Feed Cam. About Relief Angle Settings. If after aligning your bit and sharpening it, the relief needs to beA.

Rotate the alignment tube from the point split setting to the standardThe further counterclockwise the tube isB. To decrease relief set the timing tube to the masonry location. The further clockwise the tube is turned the less relief the drill will have.Follower. Fig. 13. Correct Relief. Negative ReliefFig. 14. Refer to Figure 31 on pageA. After sharpening the drill point, do not remove the drill bit from theB. Slowly pull the chuck forward giving the drill bit one or two short ”pecks”Pull the chuck out and inspect the point. Depending on the size of the drill bit, it may be necessary to repeat steps. Fig. 15. A and B until the drill point is split to the middle See Figure 31. C. Pull the chuck out of the splitting tube. Flats. NOTE The rule of thumb is “it’s better to grind off not enough rather than tooSharpening Short or Small Diameter Drill Bits. A. Complete Step 2A on page 4. When completed, remove the drill bit fromFig. 16. B. Push the paddle back, and insert the individual drill bit into the alignmentRelease the paddle and turn the drill bitC. Continue to hold the drill bit with one hand and carefully slide the chuck ontoAlign the flats on the chuck withTighten the chuck jaws onto the drillPush the paddleD. Look in to the back of the chucked drill. The chuck jaws around the drill bitE. Sharpen in tube. Fig. 18. Chuck jaws are inline. NOTE Too many rotations on small diameter bits will result in a. Sharpening Masonry Drill Bits. B. Set the alignment tubeC. Complete Steps 2A and 2B on page 4. Fig. 19. NOTE When aligning the masonry drill bit, the pawls are not used in the alignment Fig. 20Disregard the position of the pawls.D. Grasp the shank end of the drill bit and rotate it so that the right cutting lip is high inTighten the chuck knob. Push the paddle back and remove the chuck from the tube. E. Sharpen in the sharpening tube.

NOTE The masonry drill bit may also require fewer rotations thanAfter sharpening many drill bits, the drill bit grinding dust will accumulate in theGrinding particles will promote wear in the three tubes andChuck Grooves. With a dry cloth wipe the inside and outside of the threeA standard 1 ” vacuum hose works equally well. To empty the drill bit grinding dust remove the blackFig. 22. Removing The Wheel Cover. Using the narrow end of the wrench provided or a flat headShake accumulated drill bit grinding dust into a disposable container. Remove dust particles around wheel with a small dry brush. Dispose of container and drill bit dust in a safe and environmentally approved manner. Cleaning The Chucks. With pressurized air, blow the chuck out from the chuck knob end. For further cleaning, disassemble the chuck by simply unscrewing the closing knob on the chuck andClean the inside of the chuck with a dry paint brush. DoRotate the closingDetermining if a Wheel Change is Required. A wheel may need to be changed ifThe grinding wheel can be reversed to utilize the unused half. If the wheel hasContact the store or dealer where. Reversing or Replacing The Diamond Grinding Wheel. Remove the wheel cover as described above. The wheel isUse the wrenchRemove the screws, wheel retainer and the worn wheel using a twisting motion. InstallDo not over tighten the mounting screwsGrasp the alignment tube handle and pull it forward slightly. This will disengageRotate the handle counterclockwise until it is almost vertical. Once it is in that position, pull forward and itWipe the part off with a dry rag and vacuum the front alignment hole to

remove any particles from the machine. ReinsertRemove. Cover. Insert. Wrench. Remove Screws. Fig. 24Fig. 25It is used for drilling soft orTypically the standard drill bit is made of High Speed Steel HSS. The tip of the drill bit can easily be split making it a High. Performance drill bit.

Metal types inDue to the thicker web andNew masonry drill bits are generally sharpened with a facet or flatHowever, this style ofSPLIT POINTS Split point drill bits tend not to walk around on theThis feature is described as selfMasonry. Fig. 26This type of drill is used for drilling tempered steels, alloys, glass. PARABOLIC AND COBALT DRILL BITS Have a thicker webParabolic drill bits are designed to drill deepMost of these. LIP RELIEF ANGLE The relief on a drill bit is the downward angleThis is oftenFig. 27. CHISEL EDGE ANGLE The chisel edge is the line across the pointMost drill bits are set to thisWEB The web is the core thickness of a drill point. It is typicallyAs a drill bit is sharpened theSplitting the point or thinning the webChisel Edge. Angle. Chisel Edge. Included Angle. Cutting Lip. HeelWheel Cover. Grinding WheelMounting Bracket. DD750 Parts BagFig. 29That line should end up onThis check will. If the lineIf the line falls left of the heelHeel. Chuck Flat. Drill bit backing up into chuck during sharpeningUsing compressed air, a smallYou can take less material off of a drill bit. TheCarefully realign the drill in the alignment tubeNegative relief is present when theTo correct negative relief, set theTurning lever number 1Realign the drill andMaintain consistent inwardFig. 30. Negative ReliefTo correct, apply firm, not excessive inward pressure and rotate the chuck smoothly while sharpening. Be sure toDuring the alignmentRealign the drill bit making sure that the pawls are located in theGrind finish is initially rough when sharpened by a new diamondThe finish will improve as the diamond coating breaks down.After aligning theIf the jaws are twisted in a spiral direction, grasp the closing knob and very carefully turn it counterThis procedure will center theReverse the grinding wheel before you replace it.

Eventually, you willHowever, before you replaceDrill point burning andThe most common cause of improper sharpening is not aligning the drill in theIn order to correct these problems be sure the chuck is all the wayFigure 31 shows a drill pointTo correct an uneven point split take more material off of the under splitRepeat Step 2B page 6 until split isFig. 31If the tip of the drill bitAlso, the drill may be too loose or too tight in chuck. Incorrect. If this guide and the video do not answer your questions call. Professional Tool Manufacturing LLC customer service atWatch Professional Tool Manufacturing LLCWe appreciate the confidence you have placed inTool Manufacturing LLC.P.O. Box 730. Ashland, OR USA 97520. Phone 5415521301 Fax 541 5521377PP01481KF Rev.3. The only bits I use are the good bits and although they stay sharp longer, well laid out and with instructions and a video that were easy to follow but not extensive which is what we hoped for. 16 Jun 2015 Drill Doctor 350X User Guide Model 350X User Guide. I recently bought one that has proven to be very helpful. I’m always very choosy when purchasing a new gear. With power tools or any tools, you need something that guarantees perfection and excellence. Having this tool in your toolkit or at your shop will help you bring your tools back in action. According to what I’ve found out, the drill doctor is such a fantastic tool, and that is why many people prefer it to its competitions. Besides the DVD, there is a written manual that gives instruction. As I have tried this drill doctor, I prefer using the DVD even before I open the manual paper. Also, the good thing is that, if you misplace the instruction paper you can easily download one from their website. Inside this case, there is enough space for storing the doctor drill itself, two chucks, two sharpening wheels and another part is used to store small drill bits and other important accessories. This will save your time.

Using a dull drill bit results in a low quality work. By using this drill bit sharpener, you save your tools and equipment from damages. Dull bits will lower the life span of your drill. For instance, the wheel of the drill is made up of diamond that maintains its shape for so many years of use. It also has a metal split point port this feature produces accurate power with speed and load. This feature makes the drill doctor durable and long lasting so that you can enjoy its service for as long as you want. Unlike most modern bit sharpeners, the drill doctor does not need much on maintenance.

However, you should make sure that it is clean all the time. Cleaning the drill doctor is done by checking on the chuck, and around the diamond wheel. The diamond wheel will need replacement when it wears out. Cleaning is not a big deal. Drill doctor has ever failed in its sharpening work. You need to take care of it because its components are the most delicate and most of them need repair and replacement every time you feel they have worn out. Look at the best qualities of a product before purchasing.