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Page 1 (Model 28-185) DATED 23-95 PART 346498... TABLE OF CONTENTS SAFETY RULES .....ADDITIONAL SAFETY RULES FOR BAND SAWS .....UNPACKING .....ASSEMBLY INSTRUCTIONS ..... Assembling Rip Fence To Table .....Fastening Band Saw To Supporting Surface .....CONNECTING BAND SAW TO POWER SOURCE Power Connections .....Motor Specifications .....If you have any questions relative to a particular application, DO NOT use the machine until you have first contacted Delta to determine if it can or should be performed on the product. 10. CHECK for proper blade size and type. 25. THE USE of attachments and accessories not recom- mended by Delta may result in the risk of injuries. 11. DO NOT attempt to saw stock that does not have a flat surface, unless a suitable support is used. A - Band Saw w/18 564/8Blade B- Table C- Table aligning screw, washer, ana Wing nut \* Miter Gage E \_2) Adjusting Wrenches - 3ram and 4ram F Table locking handle and washer Fig. 2 ASSEMBLY INSTRUCTIONS Locate table locking handle assembly (A) Fig. L \_ : >&\_bl -l.qble\_ock.qq h,lndie 6 c ' stud \_ ,d rup\_ ,ue bcu:w '.D) and \_prng NOTE: HarJ d e iF) is \_p'-g\_- ded m,d \_ ' -Dr' reos b\_n,eed\_ n thr\_ stJ,d b\_ p\_ ,e,q o 4 rico\_ d d,e ,i d r\_ \_pos\_ on eg\_ e.or' , tr\_e stud ASSEMBLING ACCESSORY RIP FENCE TO TABLE If You lcll:ppd... FASTENING BAND SAW TO SUPPORTING SURFACE if during operation there is any tendency for the machine to tip over, slide, or walk on the supporting surface, the machine must be secured to the supporting surface. Four holes (A) Fig. 10, are provided in the band saw base for this purpose. GROUNDING INSTRUCTIONS CAUTION: THIS TOOL MUST BE GROUNDED WHILE IN USE TO PROTECT THE OPERATOR FROM ELECTRIC SHOCK. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. OPERATING CONTROLS AND ADJUSTMENTS STARTING AND STOPPING SAW The switch (A) Fig. 13, is located on the front side of the band saw. To turn the saw "ON" move the switch (A) to the up position. To turn the saw "OFF" move the switch (A) to the down position. BLADE TENSION Blades of 1/8" 1/4 and 3/8 wide by 56-1/8" n length are widths in order to provide proper blade tracking, cutting performance and blade life. After the desired blade is assembled to the two band saw wheels, lift eden tension lever (A) Fig. 17 as shown, and turn tension lever (A) clockwise until spring (13) eegins Fig. 17 to compress. Fig. P ADJUSTING UPPER BLADE GUIDES IMPORTANT: BOTH THE UPPER AND LOWER BLADE GUIDES MUST BE PROPERLY ADJUSTED TO PREVENT THE BLADE FROM TWISTING DURING OPERATION. D sconnec\_ he machine from me pewer source. 2. NOTE: Upper blade tjara (B) Fig. 22\_ sShOwN removed for clarity. Loosen the two screws (C) Fig. ADJUSTING LOWER BLADE GUIDES AND GUIDE BRACKET DISCONNECT THE MACHINE FROM THE POWER SOURCE. (FOR 1/4" AND 3/8" WIDE BLADES ONLY) Loosen the two screws (A) Fig. 23, and adjust the blade guides, one of which is shown at (B), as close as possible to the sides of the saw blade, being careful not to pinch the Fig. TILTING THE TABLE To tilt the table for angle sawing, loosen table tilting lock handle (A) Fig. 26, and tilt the table until the pointer (B) indicates the desired angle on the scale (C). Then tighten tock handle (A). The table will tilt up to 45 degrees to the front. Delta Building Trades and Home Shop Machinery Two Year Limited Warranty Delta will repair or replace, at its expense and at its option, any Delta machine, machine part, or machine accessory which in normal use has proven to be defective... Page 15 Parts and accessories for Porter-Cable/Delta products should be obtained by contacting any Porter-Cable/ Delta Distributor, Authorized Service Center, or Porter-Cable/Delta Factory Service Center. If you do not have access to any of these, call 800-223-7278 and you will be directed to the nearest Porter-Cable/ Delta Factory Service Center. Las Estaciones de Servicio Autorizadas estan ubicadas en muchas grandes ciudades. (Model BS150LS) PART NO. A03617 - 03-17-04 Copyright © 2004 Delta Machinery To learn more about DELTA MACHINERY visit our website at: www.deltamachinery.com. For Parts, Service, Warranty or other Assistance, please call ESPANOL: PAGINA 25 1-800-223-7278 (In Canada call 1-800-463-3582).SAFETY GUIDELINES - DEFINITIONS This manual contains information that is important for you to know and understand. This information relates to protecting YOUR SAFETY and PREVENTING EQUIPMENT PROBLEMS. To help you recognize this information, we use the symbols below. Please read the manual and pay attention to these sections. Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.GENERAL SAFETY RULES FAILURE TO FOLLOW THESE RULES MAY RESULT IN SERIOUS INJURY. 12. USE THE RIGHT MACHINE. Don't force a machine or an attachment to do a job for which it was not designed. Damage to the machine and/or injury may result. 13. USE RECOMMENDED ACCESSORIES. The use of accessories and attachments not recommended by Delta may cause damage to the machine or injury to the user. 14. USE THE PROPER EXTENSION CORD. Make sure your extension cord is in good condition.ADDITIONAL SAFETY RULES FOR BAND SAWS FAILURE TO FOLLOW THESE RULES MAY RESULT IN SERIOUS INJURY. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. DO NOT OPERATE THIS MACHINE UNTIL it is assembled and installed according to the instructions. OBTAIN ADVICE from your supervisor, instructor, or another qualified person if you are not familiar with the operation of this tool. FOLLOW ALL WIRING CODES and recommended electrical connections. USE THE GUARDS WHENEVER POSSIBLE.GROUNDING INSTRUCTIONS THIS MACHINE MUST BE GROUNDED WHILE IN USE TO PROTECT THE OPERATOR FROM ELECTRIC SHOCK. 1. All grounded, cord-connected machines: Repair or replace damaged or worn cord immediately. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This machine is equipped with an electric cord having an equipmentgrounding conductor and a grounding plug.FUNCTIONAL DESCRIPTION FOREWORD The Delta ShopMaster Model BS150LS 10" Band Saw has a powerful 1/2 HP, ball-bearing motor for smooth performance and long life. The saw has a 7 inch depth of cut capacity. The BS150LS is supplied with a cast iron table and sturdy steel stand which provides heavy-duty support and a comfortable work height. NOTICE: THE MANUAL COVER PHOTO ILLUSTRATES THE CURRENT PRODUCTION MODEL.BAND SAW ASSEMBLY PARTS FOR YOUR OWN SAFETY. DO NOT CONNECT THE MACHINE TO THE POWER SOURCE UNTIL THE MACHINE IS COMPLETELY ASSEMBLED AND YOU READ AND UNDERSTAND THE ENTIRE INSTRUCTION MANUAL. 2 1 3 5 4 11 6 10 7 8 9 1. 2. 3. 4. 5. Band Saw 5mm Hex Wrench 4mm Hex Wrench 3mm Hex Wrench M8 x 45mm Hex Head Screw (4) Fig. 2 6. 3/8" Flat Washer (8) 7. M8 Lock Washer (4) 8. M8 Hex Nut (4) 9. L-Block Cord Clamp (2) 10. M8 Lock Washer for Lamp (2) 11.ASSEMBLY FOR YOUR OWN SAFETY. DO NOT CONNECT THE MACHINE TO THE POWER SOURCE UNTIL THE MACHINE IS COMPLETELY ASSEMBLED AND YOU READ AND UNDERSTAND THE ENTIRE INSTRUCTION MANUAL. STAND ASSEMBLY B A 1. Assemble stand as shown in Fig. 4, using parts shown in Fig. 3. The brackets and legs are identified with the same letter in both illustrations. Insert the M8 x 16mm carriage head screws through the legs and the brackets then place the 3/8" flat washers on the screws and secure with the M8 hex nuts.3. Place a 3/8" flat washer (H) Fig. 7 on M8 x 45mm hex head screw. Insert the screw through the hole in the band saw and and through the hole in the stand. Repeat this process for the three remaining holes. F H 4. Place a 3/8" flat washer on the screw (D) Fig. 8, followed by M8 lock washer, then thread a M8 hex nut on screw and tighten securely. Repeat this process for the three remaining holes. Fig. 7 5.4. Re-assemble the locking lever stud (G) Fig. 12 through the trunion slot (L) and tighten with the locking lever handle (see inset). 5. Fig. 13 shows the table locking lever disassembled (removed in STEP 1). Item (B) is a M10 flat washer, (G) stud, (A) Locking Lever, (E) spring, (D) shoulder screw, and (C) 4mm hex wrench. G L 6. Re-assemble the screw (D) Fig.13A and tighten using 4mm hex wrench provided. A Fig. 12 B C D E D Fig. 13A Fig. 13 7. Fig.9. Loosen the screw (T) Fig. 16 and align pointer (S) with "0" mark on the trunion scale (M). Tighten securely. NOTE: Make sure table is set at 90 degrees to the blade or check the pointer alignment after adjusting the table stops (see section"ADJUSTING THE TABLE POSITIVE STOPS"). M S T Fig.16 10. Re-assemble the screw (W) Fig. 17 that was removed in STEP 2, down through hole in table.OPERATING CONTROLS AND ADJUSTMENTS STARTING AND STOPPING SAW The "ON/OFF" switch is located on the front side of the band saw. To turn the saw "ON", push the button (A) Fig. 21 in to the "ON" position. To turn the saw "OFF", push the button (B) Fig. 22 in to the "OFF" position. A Fig. 21 LOCKING SWITCH IN THE "OFF" POSITION IMPORTANT: When the tool is not in use, the switch should be locked in the "OFF" position to prevent unauthorized use, using a padlock (C) Fig. 22 with a 3/16" diameter shackle.ADJUSTING BLADE TENSION A Blades of 1/8" 1/4", and 3/8" width by 59-1/2" in length are available for use with your band saw. NOTE: The blade tension must be adjusted to accommodate different blade widths in order to provide proper blade tracking, cutting performance, and blade life. B DISCONNECT MACHINE FROM POWER SOURCE. C 1. Install the desired blade, loosen screw (E) Fig. 25 with 5mm hex wrench provided and turn the tension knob (A) Fig. 24, clockwise until the spring (B) begins to compress.ADJUSTING UPPER BLADE GUIDES AND BLADE SUPPORT BEARING G H F E B IMPORTANT: BOTH THE UPPER AND LOWER BLADE GUIDES MUST BE PROPERLY ADJUSTED TO PREVENT THE BLADE FROM TWISTING DURING OPERATION. C DISCONNECT MACHINE FROM POWER SOURCE. D C UPPER BLADE GUARD (B) Fig. 27 IS SHOWN REMOVED FOR CLARITY. ALWAYS MAKE SURE THE UPPER BLADE GUARD IS INSTALLED AND PROPERLY ADJUSTED BEFORE OPERATING THE BAND SAW. Fig. 27 1. Loosen the two screws (C) Fig.ADJUSTING LOWER BLADE GUIDES AND BLADE SUPPORT BEARING D G E The lower blade guides and blade support bearing should be adjusted at the same time as the upper guides and support bearings as follows: F A C B DISCONNECT MACHINE FROM POWER SOURCE. A 1. Loosen two screws (A) Fig. 29, and move guides (B) as close as possible to the sides of the blade. Be careful not to pinch the blade. Tighten the two screws (A). NOTE: In Fig. 29, the table has been removed for clarity. Fig. 29 2.ADJUSTING THE TABLE POSITIVE STOPS H Positive stops are provided for the table at the 90 and 45 degree angle to the blade. To check and adjust the positive stops: DISCONNECT MACHINE FROM POWER E F SOURCE. 1. Tilt the table to the 90 degree position as shown in Fig. 32 and tighten lock handle (A). Place a square (H) on the table and against the blade and check to see if the blade is 90 degrees to the table surface. If an adjustment is necessary: A Fig. 32 2.CHANGING BLADES G E To change blades: A DISCONNECT MACHINE FROM POWER SOURCE. 1. Pull door latches (A) Fig. 35 and open doors (B). 2. Loosen the two screws (C) Fig. 36, and remove the blade and pointer (D). B 3. To release tension on the band saw blade loosen screw (E) and turn tension knob (G) Fig. 35 counter-clockwise. 4. Remove table alignment screw (F) Fig. 37. 5. Slip the blade off both wheels and guide it out through the slot in the table. Fig. 35 6.USING THE BAND SAW Before starting the machine, see that all adjustments are properly made and the guards are in place. Turn the upper wheel by hand to make sure that everything is tight BEFORE turning on the power. Keep the top guide within 1/8" of the work piece at all times. Do not force the material against the blade. Light pressure on the work piece will produce a smoother cut, and prevent excess friction, heating, and hardening of the blade. KEEP THE SAW BLADE SHARP. Fig. 41 Fig. 41 illustrates a typical bevel cutting operation using the accessory miter gage. Fig. 42 Fig. 42 illustrates a typical resawing application using the accessory rip fence.TROUBLESHOOTING GUIDE In spite of how well a band saw is maintained, problems can occur. The following troubleshooting guide will help you solve the more common problems: Trouble: SAW WILL NOT START. Probable Cause Remedy 1. Saw not plugged in. 1. Plug in saw. 2. Fuse blown or circuit breaker tripped. 2. Replace fuse or reset circuit breaker. 3. Cord damaged. 3. Have cord replaced. Trouble: BREAKER KICKS OUT FREQUENTLY. Probable Cause Remedy 1. Extension cord too light or too long. 1.Trouble: BLADE WILL NOT TRACK. Probable Cause Remedy 1. Blade too loose 1. Adjust tension 2. Upper wheel not properly adjusted. 2. Adjust upper wheel. 3. Improperly adjusted blade support bearing. 3. Adjust blade support bearing. Trouble: CUT DOES NOT AGREE WITH SETTING ON THE TILT SCALE. Probable Cause Remedy 1. Pointer out of adjustment 1. Adjust pointer. Trouble: BLADE WILL NOT STAY ON WHEEL. Probable Cause Remedy 1. Blade not tensioned properly. 1. Adjust blade tension. 2.BAND SAW BLADES A band saw blade is a delicate piece of steel that is subjected to tremendous strain. You can obtain long use from a band saw blade if you use it properly. Use blades of proper thickness, width and temper for the various types of material and cuts. Always use the widest blade possible. Use narrow blades only for sawing small, abrupt curves and for fine, delicate work. This will save blades and will produce better cuts. 2.MAINTENANCE KEEP MACHINE CLEAN Periodically blow out all air passages with dry compressed air. All plastic parts should be cleaned with a soft damp cloth. NEVER use solvents to clean plastic parts. They could possibly dissolve or otherwise damage the material.PORTER-CABLE • DELTA SERVICE CENTERS (CENTROS DE SERVICIO DE PORTER-CABLE • DELTA) Parts and Repair Service for Porter-Cable • Delta Machinery are Available at These Locations (Obtenga Refaccion de Partes o Servicio para su Herramienta en los Siguietes Centros de Porter-Cable • Delta) ARIZONA Tempe 85282 (Phoenix)2400 West Southern Avenue Suite 105 Phone: (602) 437-1200 Fax: (602) 437-2200 CALIFORNIA Ontario 91761 (Los Angeles) 3949A East Guasti Road Phone: (909) 390-5555 Fax: (909) 390-5554 Tampa 33606Page 23GENERAL SAFETY RULES1. FOR YOUR OWN SAFETY, READ THE INSTRUCTION MANUAL BEFORE OPERATING THE MACHINE.Learning the machine's application, limitations, and specific hazards will greatly minimize the possibility of accidents and injury. 2. WEAR EYE PROTECTION. ALWAYS USE SAFETYGLASSES. Also use face and dust mask if cuttingoperation is dusty. Everyday eyeglasses are NOT safetyglasses. USE CERTIFIED SAFETY EQUIPMENT. Eyeprotection equipment should comply with ANSI Z87.1standards, hearing equipment should comply withANSI S3.19 standards, and dust mask protectionshould comply with MSHA/NIOSH certified respiratorstandards. Splinters, air-borne debris, and dust cancause irritation, injury, and/or illness.3. WEAR PROPER APPAREL. Do not wear looseclothing, gloves, neckties, rings, bracelets, or otherjewelry which may get caught in moving parts. Nonslipfootwear is recommended. Wear protective haircovering to contain long hair.4. DO NOT USE THE MACHINE IN A DANGEROUSENVIRONMENT. The use of power tools in damp orwet locations or in rain can cause shock electrocution. Keep your work area well-lit to preventtripping or placing arms, hands, and fingers in danger.5. MAINTAIN ALL TOOLS AND MACHINES IN PEAKCONDITION. Keep tools sharp and clean for best and safestperformance. Follow instructions for lubricating and changingaccessories. Poorly maintained tools and machines can furtherdamage the tool or machine and/or cause injury.6. CHECK FOR DAMAGED PARTS. Before using themachine, check for any damaged parts. Check foralignment of moving parts, binding of moving parts,breakage of parts, and any other conditions that may affect its operation. A guard or any other part that isdamaged should be properly repaired or replaced.Damaged parts can cause further damage to themachine and/or injury. 7. KEEP THE WORK AREA CLEAN. Cluttered areas andbenches invite accidents.8. KEEP CHILDREN AND VISITORS AWAY. Your shop is apotentially dangerous environment. Children and visitors canbe injured.9. REDUCE THE RISK OF UNINTENTIONAL STARTING.Make sure that the switch is in the "OFF" positionbefore plugging in the power cord. In the event of apower failure, move the switch to the "OFF" position.An accidental start-up can cause injury.10. USE THE GUARDS. Check to see that all guards are inplace, secured, and working correctly to prevent injury.11. REMOVE ADJUSTING KEYS AND WRENCHESBEFORE STARTING THE MACHINE. Tools, scrappieces, and other debris can be thrown at high speed,causing injury.12. USE THE RIGHT MACHINE. Don't force a machine oran attachment to do a job for which it was notdesigned. Damage to the machine and/or injury mayresult.13. USE RECOMMENDED ACCESSORIES. The use ofaccessories and attachments not recommended byDelta may cause damage to the machine or injury to theuser.14. USE THE PROPER EXTENSION CORD. Make sureyour extension cord is in good condition. When usingan extension cord, be sure to use one heavy enough tocarry the current your product will draw. An undersizedcord will cause a drop in line voltage, resulting in loss ofpower and overheating. See the Extension Cord Chartfor the correct size depending on the cord length andnameplate ampere rating. If in doubt, use the nextheavier gauge. The smaller the gauge number, the heavier the cord.15. SECURE THE WORKPIECE. Use clamps or a vise to holdthe workpiece when practical. Loss of control of aworkpiece can cause injury.16. FEED THE WORKPIECE AGAINST THE DIRECTION OF THE ROTATION OF THE BLADE, CUTTER, OR ABRASIVESURFACE. Feeding it from the other direction will causethe workpiece to be thrown out at high speed.17. DON'T FORCE THE WORKPIECE ON THE MACHINE.Damage to the machine and/or injury may result.18. DON'T OVERREACH. Loss of balance can make youfall into a working machine, causing injury.19. NEVER STAND ON THE MACHINE. Injury could occur if thetool tips, or if you accidentally contact the cutting tool.20. NEVER LEAVE THE MACHINE RUNNING UNATTENDED.TURN THE POWER OFF. Don't leave the machine until itcomes to a complete stop. A child or visitor could be injured.21. TURN THE MACHINE "OFF", AND DISCONNECT THEMACHINE FROM THE POWER SOURCE before installingor removing accessories, before adjusting or changingspeed, or when making repairs. An accidental start-upcan cause injury. 22. MAKE YOUR WORKSHOP CHILDPROOF WITHPADLOCKS, MASTER SWITCHES, OR BYREMOVING STARTER KEYS. The accidental start-up of a machine by a child or visitor could cause injury.23. STAY ALERT. WATCH WHAT YOU ARE DOING, ANDUSE COMMON SENSE. DO NOT USE THEMACHINE WHEN YOU ARE TIRED OR UNDER THEINFLUENCE OF DRUGS, ALCOHOL, OR MEDICA-TION. A moment of inattention while operating powertools may result in injury.24. THE DUST GENERATED BY CERTAIN WOODS ANDWOOD PRODUCTS CAN BE INJURIOUS TO YOURHEALTH. Always operate machinery in well-ventilatedareas, and provide for proper dust removal. Use wooddust collection systems whenever possible.FAILURE TO FOLLOW THESE RULES MAY RESULT IN SERIOUS INJURY.Page 32Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.Used without the safety alert symbol indicates potentially hazardous situation which, if not avoided, mayresult in property damage.This manual contains information that is important for you to know and understand. This information relates to protecting YOUR SAFETY and PREVENTING EQUIPMENT PROBLEMS. To help you recognize this information, we use thesymbols below. Please read the manual and pay attention to these sections.SAFETY GUIDELINES - DEFINITIONS SOME DUST CREATED BY POWER SANDING, SAWING, GRINDING, DRILLING, AND OTHERCONSTRUCTION ACTIVITIES contains chemicals known to cause cancer; birth defects or other reproductive harm.Some examples of these chemicals are: lead from lead-based paints, crystalline silica from bricks and cement and other masonry products, and arsenic and chromium from chemically-treated lumber. Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure tothese chemicals: work in a well ventilated area, and work with approved safety equipment, always wear MSHA/NIOSHapproved, properly fitting face mask or respirator when using such tools.GENERAL SAFETY RULESREAD AND UNDERSTAND ALL WARNINGS AND OPERATING INSTRUCTIONS BEFOREUSING THIS EQUIPMENT. Failure to follow all instructions listed below, may result in electric shock,fire, and/or serious personal injury or property damage.IMPORTANT SAFETY INSTRUCTIONSWoodworking can be dangerous if safe and proper operating procedures are not followed. As with all machinery, thereare certain hazards involved with the operation of the product. Using the machine with respect and caution willconsiderably lessen the possibility of personal injury. However, if normal safety precautions are overlooked or ignored,personal injury to the operator may result. Safety equipment such as guards, push sticks, hold-downs, featherboards,goggles, dust masks and hearing protection can reduce your potential for injury. But even the best guard won't makeup for poor judgment, carelessness or inattention. Always use common sense and exercise caution in the workshop.If a procedure feels dangerous, don't try it. Figure out an alternative procedure that feels safer. REMEMBER:You'repersonal safety is your responsibility. For additional information please visit our website www.deltamachinery.com. This machine was designed for certain applications only. Delta Machinery strongly recommends that thismachine not be modified and/or used for any application other than that for which it was designed. If you have anyquestions relative to a particular application, DO NOT use the machine until you have first contacted Delta to determine if it can or should be performed on the product.Technical Service ManagerDelta Machinery4825 Highway 45 NorthJackson, TN 38305(IN CANADA: 505 SOUTHGATE DRIVE, GUELPH, ONTARIO N1H 6M7)Page 4The following are trademarks of PORTER-CABLE •DELTA (Las siguientes son marcas registradas de PORTER-CABLE • DELTA S.A.) 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