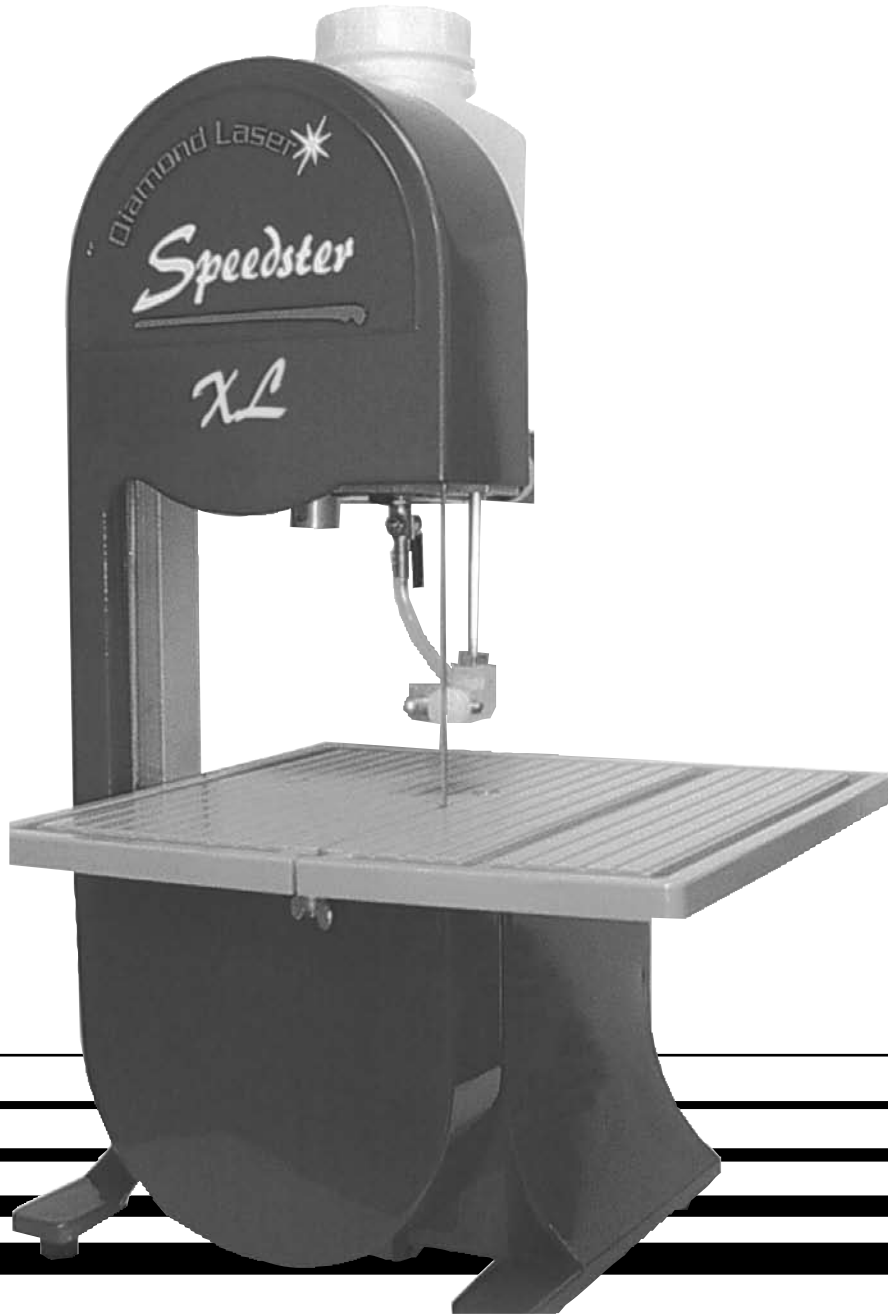


DIAMOND TECH

Innovations For Creativity



SPEEDSTER-XL™

DIAMOND LASER BAND SAW

OPERATIONS MANUAL

Before You Begin

Read and follow all instructions carefully.

- After unpacking all components, assemble band saw on a firm level surface, to prevent saw from tilting and rocking.
- Be sure the power switch is in the OFF position before plugging in the band saw.
- Always disconnect band saw from electrical outlet before setting up or servicing.
- Wear proper apparel. Never wear loose fitting clothes, neckties, jewelry and gloves that may get caught in the saws moving parts.
- Remove all wrenches before using band saw. Leaving keys and wrenches attached while operating this tool may result in damage to the machine and/or operator.
- Always wear safety goggles. Everyday eyeglasses have only impact resistant lenses; they are not safety glasses.
- Never turn on band saw while glass or working materials are touching the blade.
- Always hold material being cut firmly against cutting table.
- Feed materials at a slow easy pace into the blade. Avoid sudden twisting of the blade; which may cause kinking or breaking.
- Keep out of reach of children
- Never leave saw running unattended. Turn power OFF when not in use.
- Do not operate while under the influence of medication or alcohol.
- To ensure top performance keep band saw properly maintained.

Contents

Your Speedster-XL™ has been shipped partially assembled. Carefully remove saw and parts from their packaging.

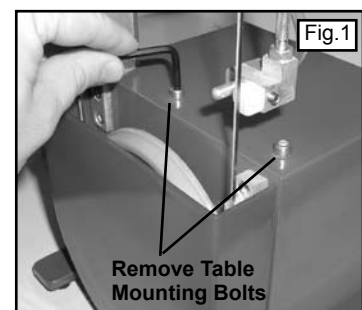
- 1 - Band Saw Body
- 2 - Cutting Table
- 3 - Straight Edge/Angle Cutting Guide
- 4 - Water Reservoir
- 5 - Adjusting Wrenches
- 6 - Extra Diamond Laser Band Saw Blade



Assembly Instructions

A. Table Installation

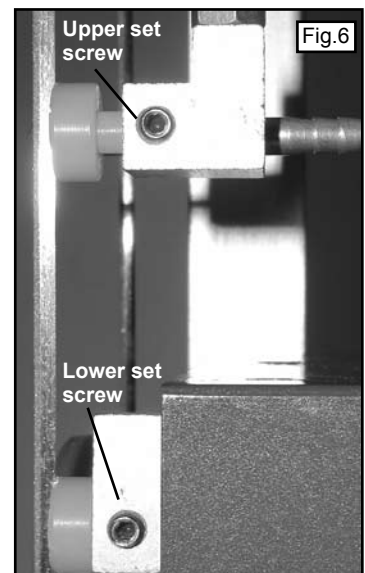
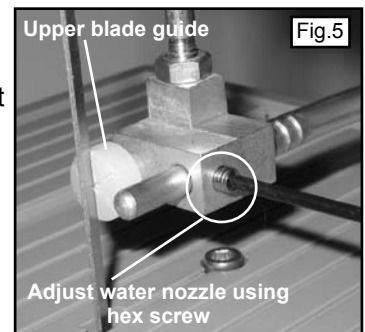
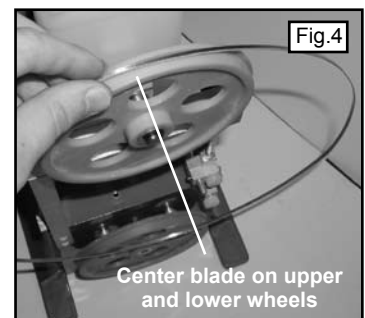
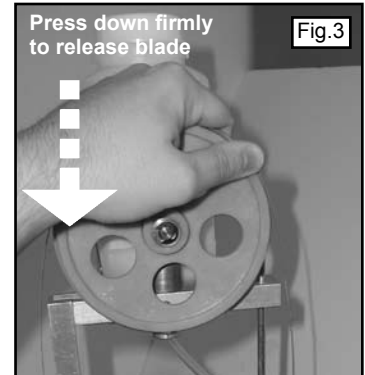
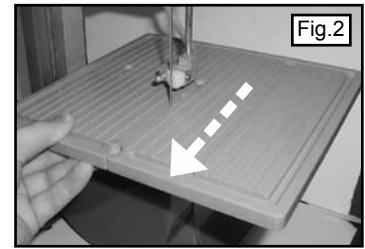
- 1) Remove table mounting bolts and washers located directly behind the blade with a hex wrench (Fig.1). Loosen and remove the table alignment screw and wing nut, on the front of the cutting table.
- 2) While holding the table with the slot opening directly behind the blade, carefully slide the diamond blade through the slot (Fig.2).
- 3) Secure cutting table to the saw body with the table mounting bolts. Return alignment screw and wingnut to the front of the cutting table and tighten.



B. Blade Installation

Blade comes pre-installed, however should it become loose in shipment or you need to replace a blade, follow these instructions.

- 1) Remove cutting table alignment screw and wingnut.
- 2) Loosen thumb screws, located on the left side and back of the saw, until upper wheel/blade cover can be removed easily. Tilt saw backwards and loosen screw at the base of the saw until the tab holding the lower wheel/blade cover can be rotated away from the basin bottom. Slide lower wheel/blade cover off.
- 3) Place a hand over the top of the upper blade wheel and press firmly downward on the upper wheel tension assembly (fig. 3) to remove the worn blade.
- 4) To install a new blade, center it on the upper wheel (diamond side facing toward you) (fig.4). While holding the top of the upper wheel and blade, press firmly down on the upper wheel tension assembly while wrapping blade around lower wheel; then slowly release.
- 5) Ensure blade is centered in the upper and lower blade guide grooves (See *Blade Guide Adjustment and Back Tracking for further adjustment details.*).
- 7) Once the blade is properly installed, reinstall upper and lower wheel/blade covers, table alignment screw and wingnut.



C. Water Systems

The Speedster-XL comes equipped with a water supply nozzle and large capacity reservoir; offering better water flow to the front of the blade increasing cooling and lubrication.

- 1) Remove water reservoir cap and fill with approximately 24 oz. of water. Replace cap but do not screw on tightly. A moderately loose lid will prevent a vacuum from occurring.
- 2) Open water valve on bottom of bottle. Water should begin to flow freely from the water nozzle mounted on the blade guide block assembly. Adjust position of nozzle so water flow is directed at the front of the blade, by loosening the hex screw (fig.5) and moving the brass nozzle into proper position. Retighten screw. The water should drain off the work surface, side of the table, and drain into the lower wheel reservoir. It is equipped with a plug which can be removed, allowing water to drain away to a collection tray, bucket or sink.

WARNING: Never operate saw if there is insufficient water at the point of cutting, as this will cause damage to the blade.

Band Saw Use and Maintenance

A. Blade Guide Adjustment

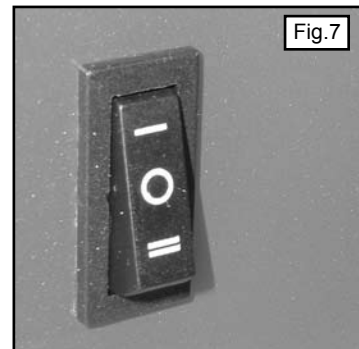
The Speedster-XL comes with lower and upper blade guides. Proper alignment of these guides are essential to proper glass cutting and extending blade life.

- 1) The blade should pass through the grooves of the upper and lower edge of the blade resting slightly inside the grooves. To adjust, use a small hex wrench and loosen the set screw located on the right side of the lower and upper blade guide blocks (Fig.6). Slide the blade guides back or forward to achieve proper position. The blade should pass vertically through the guides when viewed from the side. The Speedster's blade guides can be rotated 3 times for extended guide wear.

NOTE: Blade guides should be adjusted after approximately 3 hours of use. Frequent replacement of blade guides is recommended to maintain cutting accuracy and extend blade life.

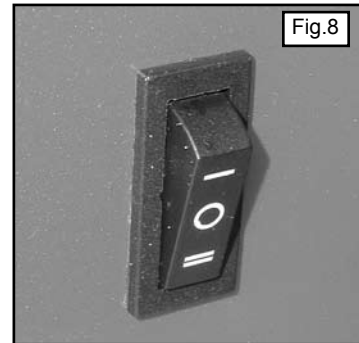
B. Speed Control

The new Speedster-XL is equipped with dual speed for improved cutting control. Most standard cuts utilize high (Fig.7). speed for fast and smooth results. Narrow slices, sharp curves or delicate glass are best cut on the low setting (Fig.8).



C. Straight Edge / Angle Guide

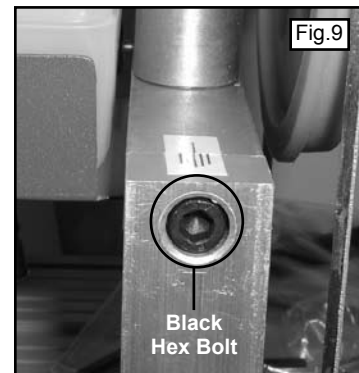
For moderate straight edge cutting, place work material against the straight edge guide and feed the material slowly. The band saw is designed for intricate cutting, however the straight edge guide will permit straight edge cutting when needed.



D. Blade Tracking

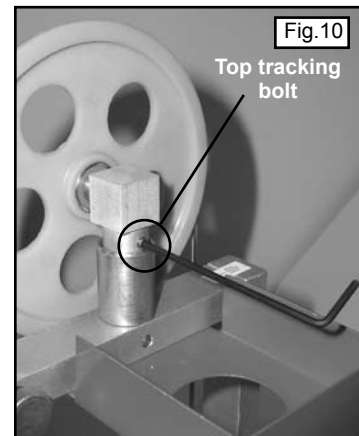
Each Speedster™ is fully tested and adjusted before it is shipped. Occasionally, additional tracking adjustments are necessary due to shipping.

- 1) Turn OFF power switch.
- 2) Remove upper and lower wheel/blade covers.
- 3) Slightly loosen the hex bolt located on the left of the upper wheel support bar (Fig. 9). Tilt the upper wheel and adjust tracking accordingly. If the blade is riding too far forward, tilt the upper wheel slightly backward. If the blade is riding too far back tilt the upper wheel slightly forward. Tighten bolt and test tracking by hand after each small adjustment.
- 4) Further blade tracking adjustments may be necessary to properly align blade in guides. To do this, remove water bottle from rear bracket. Loosen top tracking bolt (Fig.10). Move wheel back or forward until blade lines up properly in guides. Retighten top tracking bolt.



Quick Tips

- 1) Do not force materials into the blade. Ease the materials into the blade, turning as you go to create your pattern. Avoid twisting the blade on tight curves.
- 2) To back out of a cut, turn the saw off and ease the material away from the blade.
- 3) Clean band saw after each use with lukewarm water.
- 4) When storing for extended periods, remove blade and drain water supply system.
- 5) Use a waterproof pen to mark your pattern on material. For added protection allow the ink to dry and use a Chap Stick over line before cutting.



Troubleshooting

Problem: Blade jammed in material being cut.

Solution: Before freeing any jammed materials, immediately turn OFF power switch and wait until all moving parts have stopped. Gently free work materials, holding blade against the blade guides to prevent it from stretching or badly twisting. Back out of the cut if needed. Inspect blade for kinks and ensure there is no remaining debris in the blade path which may have caused the jam.

Problem: Blade breakage.

Solution: Do not force material into the blade. EASE the materials being cut into the blade, turning it as you go to create your cut. Avoid twinsting the blade on tight curves.

Additional Parts

Item	Item Number
SPEEDSTER-XL STAINLESS STEEL BLADE	#22
SPEEDSTER-XL WOOD BLADE	#WB0450
SPEEDSTER-XL BLADE GUIDES	#513
SPEEDSTER-XL MOTOR	#P650
SPEEDSTER-XL FUSE	#P653
SPEEDSTER-XL FUSE WITH HOLDER	#P654
SPEEDSTER-XL ANGLE GUIDE	#P656
SPEEDSTER-XL UPPER WHEEL	#P674
SPEEDSTER-XL DUAL SPEED SWITCH	#P681
SPEEDSTER-XL WATER RESERVOIR	#P911

Blade Repair Service

Diamond Tech offers a blade repair service should a blade break with ample diamond remaining. Return blade, indicating saw model and payment to *Diamond Tech, Blade Repair Service, 5600 Airport Blvd., Suite C, Tampa, FL 33634*. For International and special handling, please include extra postage and shipping instructions

Blade Repair Fees (U.S. Dollars):

Speedster, DL1000, DL3000.....	\$25.00
DL5000.....	\$45.00

Diamond Tech

Diamond Laser Speedster XL 3 Year Warranty

All **Speedster XL Band Saw** and accessories are manufactured to high quality standards and are serviced by highly qualified technicians.

Speedster XL Band Saw is warranted to the original purchaser for three full years from the original purchase date. During the three year period, if you feel the **Speedster XL Band Saw** is not performing properly and needs to be serviced, contact Diamond Tech at 800-937-9593 or email info@dtcrafts.com for a Return Authorization Number. Equipment will not be accepted at Diamond Tech without a Return Authorization Number.

If returning the Band Saw for evaluation or repair, be sure to include your Name, Address, Daytime Phone Number with Area Code and a letter explaining the specific problem you are encountering. You will be contacted if any necessary parts or service are not covered under the warranty.

Date of purchase ___ / ___ / ___

Mark the Return Authorization Number clearly on every package! *Do not send this product back without such prior authorization!* Return postage and insurance are the responsibility of the consumer. Diamond Tech will return your equipment postage paid and insured if it is under warranty. Any Band Saw no longer under warranty will be returned at the owner's expense. Diamond Tech reserves the right to repair or replace faulty equipment at its discretion. The **Speedster XL Band Saw** is warranted against defective materials or workmanship. If the **Speedster XL Band Saw** suffers damage due to customer modifications and/or is used for any application other than that for which it was designed, this warranty is void. This warranty does not include damage due to: (A) neglect (B) accident (C) unreasonable use (D) improper maintenance (E) any other causes not attributed to defects in material or workmanship. This warranty specifically excludes the **Speedster XL Band Saw** blades and/or guides. Any implied or otherwise explicit guarantees made through merchandiser of this product are not covered in this warranty coverage agreement and are expressly disclaimed.

IMPORTANT NOTE: This machine was designed for certain applications only. *Diamond Tech* strongly recommends that this machine NOT be modified and/or used for any application other than that for which it was designed. If you have any questions relative to its application, please contact us and we will advise as to its proper use.

Diamond Tech, USA

5600 Airport Blvd., Suite C, Tampa, Florida 33634
Tech Support: 800-937-9593 (U.S.A., Canada) 813-806-2923 (International)
Fax: 813-806-1988, Email: info@dtcrafts.com
www.DiamondTechGlass.com

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