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, Hoffman Estates, IL 60179 Please keep the box and packaging from the CompuCarve machine. This box will be used for shipping in the event that the unit needs servicing. Sears, Roebuck and Co. The operation of any power tool can result in foreign objects being thrown into the eyes, which can result in severe injury. Before beginning tool operation, always wear safety goggles or safety glasses with side shields and a full face shield when needed. A Wide Vision Safety Mask is recommended for use over eyeglasses or standard safety glasses with side shields. Always wear eye protection that is marked to comply with ANSI Z87.1. A CAUTION ALWAYS WEAR EAR PROTECTION. Power tools can generate high levels of noise that will cause permanent hearing loss. Before beginning tool operation, always don hearing protection to minimize the risk of damaging hearing. Operating electrically powered machinery poses a risk of serious physical injury to hands and fingers. Always operate machinery with ALL guards in place and in good working order. Read the operators manual carefully. Keep cutting tools sharp and clean for better and safer performance. Do not force the tool or attachment to do a job for which it was not designed. Cluttered work areas and workbenches invite accidents. Keep floors clean and free of accumulated dust. Do not use power tools near gasoline or other flammable liquids or explosive fumes. Use wood dust collection systems whenever possible. Sears, Roebuck and Co. They can get caught and draw the user into moving parts. Wear protective hair covering to contain long hair. Never yank the cord to disconnect it from receptacle. Keep the cord from heat, oil, and sharp edges. All visitors should wear safety glasses, hearing protection, and be kept a safe distance from work area. Stay alert and use common sense. Do not

operate the tool when tired. It points out important safety precautions. <http://skalamatbaa.com/userfiles/bostitch-f33pt-manual.xml>

Look for anything that could interfere with proper operation and performance, such as any binding or misalignment of moving parts or any sign of instability in the carving system. When the machine is running, never reach underneath the workpiece or into the bladecutting path for any reason. Sears, Roebuck and Co. Using improper accessories may risk injury. Sharp bits minimize workpiece burning, poor cut quality, and stress to the system. Repairs using other than original replacement parts may create a hazard as well as damage to the machine. Always use a clean cloth when cleaning. Serious injury can occur if tool is tipped or if the cutting tool is unintentionally contacted. **WARNING** Operation of this tool should not be attempted until all instructions, safety rules, etc. Failure to do so can result in accidents involving fire, electric shock, or serious personal injury. Save the operators manual and review it frequently for continuing safe operation and for instructing others who may use this tool. **WARNING!** Some dust created by power sanding, cutting, and drilling contains chemicals known to cause cancer, birth defects, allergic reactions, or reproductive damage. **POWER SUPPLY** The CompuCarve woodworking machine is controlled by precision electronics, it should be connected only to a power supply that is 120 volts nominal, 60 Hz, AC normal household outlet. It should not be connected to a 240volt power supply. This tool will not operate on direct current DC. If the machine does not operate when plugged into an outlet, check to see that the fuse or circuit breaker for the outlet is not open and that the outlet has power available. The plug has polarized terminals so make sure that it is inserted properly into the outlet. **EXTENSION CORDS** When using a power tool at an extended distance from the power source, use an extension cord heavy enough to carry the current that the tool will draw.

An undersized extension cord will cause a drop in line voltage, resulting in a loss of power and causing potential damage to the machine. Use the chart provided below to determine the minimum wire size required in an extension cord. Only jacketed cords listed by Underwriters Laboratories UL should be used. Length of Extension Cord vs. Wire Size American Wire Gage AWG Up to 10 feet 18 AWG minimum 10 to 50 feet 14 AWG minimum Over 50 feet not recommended When working with the tool outdoors, use an extension cord that is designed for outside use This is indicated by the letters WA on the power cords outer jacket. Before using an extension cord, inspect it for loose or exposed wires and cut or worn insulation. It is important that the CompuCarve be stored indoors in a low humidity environment. Never expose the machine to temperatures of over 110 degrees Fahrenheit for any extended period of time. Make sure that all exposed metal surfaces on the quick release chuck and bit adapters are well oiled for operation and storage. Be sure to keep your box and packing foam in case your machine needs to be returned for service. Sears, Roebuck and Co. **Head Screw** The threaded shaft on each side of the machine by which the head is raised and lowered when activated by the head crank. **Joint or Jointing** A trim cut parallel to the grain of the wood on the edges of a board to create 90degree angle with the top and bottom surface. A joint will create a smooth and, most important, straight edge. Often used in preparation for a glue joint to attach the board to another piece of wood. **LCD** Liquid Crystal Display The twoline text display found above the keypad. **Molding** A shaping cut that gives a varied profile to the workpiece. **Pitch** A sticky, sapbased substance found in some woods. **Rip Cut** A cut made parallel to the grain or length of the workpiece. **Rout** To hollow, scoop or carve out.

Snipe An unwanted depression formed near the end of a workpiece caused by the uneven transition of the workpiece from one support surface to another. Snipe can be minimized by ensuring that auxiliary outfeed supports are even with machine support surfaces. The free end of the workpiece should also be well supported so that its weight does not place lifting pressure at the end of the workpiece being carved. **Squaring Cut** A smoothing trim cut across the grain of the wood on the end of a board to create 90degree angles with the top, bottom, and side edges. **Vector Cut** A cutting

operation that is composed of a group of strokes from one point to another. These can be lines, circles, splines or any other number of geometric elements. Workpiece The item on which the cutting operation is being performed. The surfaces of a workpiece are commonly referred to as faces, ends, and edges. Sears, Roebuck and Co. Located in the top tray are items B through K listed above. 2. Remove the machine from box With a helper, lift out the machine and place it on a sturdy table or bench. Fold down the Outfeed Support Tables. Remove the plastic film covering the top clear safety cover. 3. Attach the handle Attach the crank handle ball to the crank lever using the supplied shoulder bolt. Crank Handle Ball Handle Shoulder Bolt FIGURE 8 ATTACHING THE HANDLE 4. Prepare the flexshaft assembly Remove the plastic wrapping and rubber band from the end of the flexshaft assembly. Gently pull the protruding flexshaft core with squared end out of the sheath several inches. Push the core back into the sheath and make sure that it slips into, and engages, the cutting motor. Turn the core with your fingers and feel for resistance of the motor. If the shaft spins without resistance push the core in as you slowly rotate it. You should feel it engage in the slot. 5. Insert the flexshaft into cutting head Looking through the slot in the top cover, locate the shaft receptacle in the top of the cutting head.

The end of the flexshaft assembly is held in place with a ball detent. Inside the receptacle there is a square recess that mates with the exposed square end of the flexshaft cable. Turn the chuck on the bottom of the cutting head open the safety cover for access until the square cable end can be inserted into the recess. Press the flex shaft all the way down into its receptacle. A click will be heard and felt as the shaft snaps into place. Sears, Roebuck and Co. Become familiar with the names and locations of these features, as they will be referred to throughout this manual. Sears, Roebuck and Co. Rollers ! Board Edge Sensor FIGURE 12 FEATURES, VIEW FROM BELOW OUTFEED TABLE NOT SHOWN FOR CLARITY Sears, Roebuck and Co. With the power off, push the memory card gently into the memory card slot until it stops, making sure the label is up. WARNING Never remove the memory card from the machine while it is on. Doing so can result in damage to the workpiece. At any point during operation the CompuCarve machine can be stopped by pressing the STOP key or by lifting the cover. If desired the machine can be restarted by closing the cover and pressing ENTER. The machine will resume cutting at the point where it was stopped. If you press the stop button a second time the project will be aborted so be careful when restarting your project. Once the CarveWright memory card is installed, the machine can be turned on with the power switch. Look at the LCD display, and rotate the contrast control knob located directly under the keypad until the display is readable from a comfortable angle. The CompuCarve may be used in two complementary ways. First, and most powerfully, the CompuCarve can carve intricate patterns and designs created through the CarveWright design software running on a computer. Please refer to the CarveWright software users manual on the included CD for further information.

It is advisable to have a supply of suitably sized scrap wood on hand for trial cuts. Very often it is desirable to tweak details in a design before doing a final carving. Sears, Roebuck and Co. ALL operations require the user to input information at the actual machine location via the keypad as opposed to information input and passed through the design software. The amount of information needed is dependent on the operation requested. The layout of the keypad is shown below. FIGURE 15 COMPUCARVE INPUT KEYPAD The CompuCarves LCD display consists of two lines. Typically, the display will print a menu name or a prompt on the top line and a related menu option on the second line. FIGURE 16 COMPUCARVE LCD DISPLAY CompuCarve Main Menu 1 Project Menu The LCD displays contrast may be adjusted with the small knob located directly below the keypad. To turn it, place a thumb on the knobs surface and press in while twisting. Navigating the menu structure is usually done by browsing through the menu structure. Alternatively the shortcut keys on the keypad can be used if the user is familiar with the options. Browsing uses three buttons on the keypad up arrow, down arrow, and the ENTER key. As described previously, when a menu is displayed, the menu name will be on the top line and the current menu option will be displayed on

the bottom line of the display. To browse the other menu options simply press the down arrow on the keypad to move to the next option. To return to a previous option, press the uparrow. When the bottom of a menu options list is reached, pressing the down key will wrap back to the top of the menu. Pressing the STOP button while in the menu structure will automatically return the user to the previous menu prompt. After an option is selected within a menu the machine may offer further choices to be selected, or it may require additional data about the board and the type of cut desired. This may require a keypad entry. Sears, Roebuck and Co.

When fractional values are involved, data may be entered as either decimals or fractions. Decimals are the simplest. To go back or correct an incorrectly entered number use the left arrow. Shortcut keys can be a faster way to get around the menus once they are learned. Shortcut keys are used primarily to access the builtin functions. The shortcuts options are printed below the numbers on the keypad see Figure 15 and include the following Projects Cut Rout Joint Miter Accessory Measure Repeat Options Key will initiate the Projects menu. Key will initiate the Cross Cut and Rip Cut menu. Key will initiate the Edge Routing menu. Key will initiate the Squaring and Jointing menu. Key will initiate the Bevel and Miter Cut menu. Key will access a menu of any addon accessories. Key will allow user to measure width or length of piece. Key will allow user to repeat the previous operation without having to go through all of the setup steps. Key will allow access to machine settings and info. BuiltIn Functions The CompuCarve machine is capable of performing most of the basic woodworking operations normally done on conventional equipment, such as a table saw, a jointer, a miter saw, a shaper, or a router. For large projects, the user who has access to the latter tools can determine which method is most advantageous in any given situation. However, for smaller projects the ease of use and the precision of cuts clearly make the CompuCarve machine the preferred choice. Frequently it will be desirable and in some cases necessary to dress a board before carving. The builtin functions make it possible to easily perform this task with only one machine. To access the CompuCarves various builtin functions, a menu style interface has been provided that uses the keypad and LCD display. Shortcuts to these functions are conveniently located on the CompuCarve keypad. These shortcuts allow the builtin functions to be performed without the use of the CompuCarve design software.

The following is a brief description of each of the builtin functions Sears, Roebuck and Co. A Rip cut along the grain or long axis will size a board to the desired width; a cross cut across the grain or narrow axis will size a board to the desired length. Once Cross or Rip is selected from the Cross or Rip Cut menu, prompts are made for the desired length or width of the finished board. A Rip Cut will ALWAYS be performed to the far side of the board and a Cross Cut will ALWAYS be performed to the right end of the board as explained in Figure 14. If many pieces of the same width or length are desired, simply raise the head, remove all material from the machine, load a new the board, set the sliding guide plate, lower the head, and press Repeat. Many times it is useful to run a jointing operation after a rip to clean up the cut edge. Jointing and Squaring Jointing and squaring operations, which are often difficult on smaller boards, can be done quickly and with extreme precision using this builtin function. Squaring ensures that the corner angle of the board surface is a true 90 degrees. Jointing ensures that the edge of the board is a uniform 90 degrees to its surface. Squaring is always done on the board end. For the Joint or Square function the user will be prompted to select either Square or Joint. If Square is selected the machine will ALWAYS perform the operation to the left end of the board as explained in Figure 14. If Joint is selected the machine will ALWAYS perform the joint to the far edge of the board. To repeat a jointing pass simply raise the head, recenter the board in the machine, reset the sliding guide plate, lower the head, and press Repeat. Sears, Roebuck and Co. If there is a significant crown to the board, place the highest point of the crown under the cutting head. This will allow the machine to measure the highest point of the crown and will prevent the machine from taking an excessive cut.

Any other bit can cause damage to the workpiece or machine and can result in serious injury. Bevel and Miter Cuts Bevel cuts are cut at an angle across the thickness of the workpiece. A typical bevel cut application would be seen in making small boxes where the corners are formed by two 45degree bevel cuts. Miter cuts are cut at an angle across the width of a workpiece. A typical application would be a picture frame. Once the Miter shortcut key is pressed user will be prompted to choose either the Bevel or Miter type of cut and then the desired angle. For bevel cuts there will also be the option to Cross or Rip depending on what edge will be beveled. A Cross bevel will ALWAYS be applied to the left end of the board and a Rip bevel will ALWAYS be applied to the far side of the board as explained in Figure 14. Routing an Edge The Edge Rout function allows the user to rout the edges of a rectangular board with a shaped bit. Various decorative edge effects can be achieved, depending on the available bit selection. The user will be prompted to select the edges to rout. Choices include an End, an Edge, or All Edges. If Edge is selected the rout will ALWAYS be applied to the far side of the board and if End is selected the rout will ALWAYS be applied to the left end of the board as explained in Figure 14. Finally, there will be a prompt to select a bit from the selection menu. After the first rout operation the LCD will ask if the depth is OK. To repeat the last Edge Rout to multiple boards, simply raise the head, remove the previous board from the machine, load a new the board, set the sliding guide plate, lower the head, and press Repeat. Sears, Roebuck and Co.The display will then ask for the direction the user wishes to measure. Carving a Project A project is a set of related design elements patterns or figures created with the CarveWright design software and stored on the memory card. These stored projects are accessed from the keypad.

The desired project can be selected by pressing ENTER. Upon selection of a project from the project menu, the CompuCarve will lead the user through the preparation process. The first instruction will be to insert a board. Inserting a Board Proper installation of the workpiece is critical to the performance and continued operation of the machine. To properly insert a workpiece 1. Press down on the sliding guide plate release lever and move the sliding guide plate to the right so that it will clear the width of the workpiece., Check the bottom of the workpiece for features that will make it unusable in the machine. If a workpiece does not have the required surface available for the sensor to follow e.g., if it is already carved on the back, it will be necessary to fasten the workpiece to a sled or carrier jig to do further work on it. If a workpiece is slightly cupped or bowed, the workpiece should be inserted with the cup or bow facing down. It is also important to note that any existing features on the workpiece such as previous carving, knots, holes, paint, rounded edges etc may cause the machine sensors to incorrectly measure the workpiece. To minimize this risk make sure that there are no features directly underneath the cutting head and in line with the sidetoside motion when the workpiece is loaded. These features can also be masked from the sensors with standard masking tape. 3. Lay the workpiece on the traction drive so that it is centered lengthwise under the head. 4. Push the board firmly up against the squaring plate. Sears, Roebuck and Co.DO NOT push the sliding plate against the workpiece with significant force. The sliding plate is used to guide the workpiece and is not intended to lock the piece in position., At this point it is critical that you assure that the workpiece can travel freely in and out of the machine along its entire length without binding or encountering significant drag.

Do this by moving the workpiece in and out of the machine by hand, while laying flat on the traction drive. WARNING Do not attempt to load a workpiece that has a significant taper to the sides. A tapered workpiece will bind between the sliding plate and the squaring plate and will damage the traction drive. Next, lower the head by turning the head crank handle counter clockwise until the clutch clicks several times at least 5 clicks recommended. Sears, Roebuck and Co.Most often this decreased loading is caused by insufficient lubrication of the four vertical corner posts or the two vertical leadscrews. Please see the Checking the Head Pressure in the troubleshooting section for the proper lubrication procedure. The headlocking lever is then rotated outward into the locked position. The workpiece is now secure and ready to be carved. 9. Make sure that the top safety cover

is closed before proceeding. As a matter of regular maintenance, check that the Y and Z Cutting Trucks Figure 13 are tight and do not have any play in them. Simply grab each one with your hand and wiggle back and forth. If either of these trucks is loose they will need to be tightened. Failure to tighten these trucks will result in decreased carving quality. Please call the service help line for tightening instructions. Sears, Roebuck and Co. The machine will ask if the workpiece is to Stay Under Rollers. Keeping the workpiece under the top rollers is a way of avoiding undesirable snipe in the cut and maintaining contact with the Board Tracking Sensor at all times. In many cases you will have to account for this extra length by inserting a longer workpiece than is shown in the design software. The other option is to have the project scaled to the board size while accounting for the length needed to keep under rollers. Most times this will not produce the desired effect.

If the size of the inserted workpiece does not match the size of the designed project then the machine will prompt for additional information. The machine will ask different questions based on if the workpiece installed in the machine is larger or smaller than the project designed in the software. If the workpiece is smaller than the designed project, then the options are Scale the project to fit the workpiece or Load New Board. If the Scale option is selected then options Center On Board, Jog To Position, or Place On Comer are displayed in order to locate the project on the workpiece. **WARNING** Be very careful when scaling down a project at the machine. The machine will scale the entire project to the largest size that will fit the inserted workpiece while maintaining the overall aspect ratio of height to width. It will not change the aspect ratio to fit that of the inserted workpiece. Scaling down can also lead to undesirable thinning of carved elements that may lead to chip out. Sears, Roebuck and Co. This will help guide your design and prevent unintended scaling issues if the project design is different than the available workpiece. If the inserted workpiece is larger than the project design then the available options are Keep Original Size, Scale the project to fit the workpiece, or Load New Board. If Keep Original Size or Scale is selected then options Center On Board, Jog To Position, or Place On Comer are displayed in order to locate the project on the workpiece. Once all of the required data has been entered, the machine will prompt to insert the required bit. For projects that require more than one bit, the machine will prompt for each bit at this point and will store the calibration settings. The machine will locate the bit tip with its touch plate and will then locate the top surface of the board by touching the bit tip to the surface of the workpiece.

If the workpiece that you have chosen to carve has existing carved features or defects that would prevent the bit from touching the top surface, you can choose where you want the bit to touch when finding the board surface. To do this watch as the machine begins the operation to find the bit tip position. The message Finding Surface will be displayed on the LCD. Press the STOP key when this message appears. When prompted choose the Jog To Touch option. Use the arrow keys to move the bit tip to a suitable flat spot on the board and press ENTER to record position. The machine will remember this location and use it to locate the tips of all the bits used in the project. This option remains set only until the machine is powered off. The machine will then proceed to carve the project. A real time carving completion estimator will be displayed on the LCD and provides an estimate of how much of the current carving is completed. This completion estimator gives a completion estimate for the element that is carving at the time and does provide and estimate for the entire project. A time estimate for the entire project can be obtained in the design software when the project is uploaded to the memory card. When the carving is completed, lift the top safety cover, release the head lockdown lever, and crank the head up to free the workpiece. The workpiece can then be removed and examined. Sears, Roebuck and Co. This is especially useful if one wishes to avoid a blemish in the wood or to incorporate some feature like a knot into the carving. Figure 14 illustrates the directional conventions used with CompuCarve. Holding an arrow key down results in a fast movement. Precise final positioning is accomplished using short bumps on the key. In addition to jogging to position with the arrow keys, if any number key is pressed while in jog mode, the

machine will enter coordinate mode. In coordinate mode, there will be a prompt for the X and Y coordinate destination.

The machine coordinates will be the distances from the near left hand corner of the workpiece when facing the keypad. Auto Jigging Function Occasionally a project will contain carvings or routs that can interfere with the mechanical operation of the machine. Types of interference fall into the following categories

1. Wide vertical cuts across the top surface of the workpiece can cause the compression rollers to fall during a project, affecting the machines ability to move the workpiece.,
2. Cuts through the board along the top edge of the workpiece as viewed in the software can interfere with the Board Tracking Sensor and affect the machines ability to track the position of the workpiece.
3. Carvings on the rear face of the workpiece and near the bottom of the workpiece as viewed in the software can also interfere with the Board Tracking Sensor when the workpiece is flipped over.,
4. Cuts with the Cut Tool along the right side of the workpiece can potentially break the cutting bit if the workpiece leaves the Board Tracking Sensor and the machine loses highprecision tracking of the workpiece.

In the event that the CarveWright™ designer software recognizes that any of these conditions are met within a project, the software will display a warning when the project is uploaded to the memory card. The specific conditions will be listed, and the user may choose to ignore the warning which may result in undesired machine operation, manually jig the project, or allow the machine to automatically jig the project AutoJig. Sears, Roebuck and Co.

Workpiece Size Limitations

Small Workpiece The minimum acceptable size of a workpiece that can be inserted into the CompuCarve is 1.5 inches wide x 0.5 inches thick x 7 inches long. It will be necessary to mount the workpiece onto a jig if any single dimension is smaller than the stated minimums.

Large Workpiece The maximum size of a workpiece is limited only by the physical size of the CompuCarve machine, and is 14.