



# Scroll Saw Upgrade Kits

With the Scroll Saw Upgrade Kits, you can upgrade your old Shopsmith Scroll Saw to the new 1994 model Shopsmith Scroll Saw.

The following instructions describe how to remove the old components and replace them with the upgraded parts. *If you purchased Scroll Saw Upgrade Kit 555708, then you only need to perform the steps under Blade Blocks / Quick Release Lever.*

## Tools Needed:

- Small screwdriver
- 1/8" Allen wrench
- 5/32" Allen wrench
- 5/16" Socket or Nutdriver

## WARNING

Make sure the scroll saw is unplugged and/or uncoupled from all power sources before performing the following steps. Also, for all safety and operation information, consult your Scroll Saw instruction manual.

## Quick Release Lever - Rear

1. Using a small screwdriver, remove the flat head screw (14) from the top of the blade tension knob (16).
2. Unscrew the blade tension knob (16) and discard it, along with the knob spacer (20), and spring (21).
3. Place the new spacer contained in your kit onto the tensioning rod (39).
4. Add the flat washer provided and then screw the new lever on the tensioning rod (39).

## Foot and Guard Assembly

1. Remove the trunnion lock knob (73) from the trunnion (75). Loosen the 5/32" Allen screw (85) in the back of the table and then remove the table (65) and set it aside.

2. Remove the tubing (53) from your current blade guard (56).
3. Loosen the hold down lock knob (12).
4. Slide the foot and guard assembly (56 - 63) out of the scroll saw.
5. Repeat the steps in reverse with the new foot and guard assembly to complete installation.

**NOTE:** In some cases, where the new hexagonal post will not fit into the existing hole, it may be necessary to either drill out the hole with a 25/64" drill bit or file it with a small round file.

To align the foot and guard assembly so that the foot is centered around the blade, loosen the screw which holds the foot to the post with a 1/8" Allen wrench. Rotate the foot until it is centered around the blade. Re-tighten the screw.

## Arm Hood

1. Using a 5/16" socket or nutdriver, remove the two screws (4) which hold the arm hood (2).
2. Slide the old arm hood off and replace it with the new clear arm hood.
3. Re-install the two screws (4) but do not tighten them yet.
4. Lower the new clear arm hood (2) and check for alignment with the upper arm cover (1).
5. Adjust as necessary and then securely tighten the two screws (4).

## Blade Blocks / Quick Release Lever

1. Release tension on the scroll saw blade.
2. Pull the lock pins (29 & 43) on the upper (25) and lower (36) arms in order to remove the old mounting block assemblies (32-34).
3. Take the new blade block with the quick release lever and place it in the upper arm (25) using the lock pin (29).
4. The remaining new blade block will snap securely into place using the lock pin (43) on the lower arm (36).



## To Change Scroll Saw Blades

1. Lift the arm hood.
  2. Flip the quick release tension lever forward to release blade tension.
  3. Loosen the thumbscrew.
  4. Remove the insert and pivot the blade forward.
  5. Pull out the lock pin and remove the lower blade block assembly.
  6. Position the lower blade block into the table top.
  7. Loosen the thumbscrew and remove the blade.
- Reverse steps 1-7 to re-attach a new scroll saw blade.
  - Only steps 1-4 are needed for piercing cuts.

**\*\*\*NOTE:** To properly attach the blade into both lower and upper blade blocks, insert each blade end fully into and back against each blade block shoulder. Also, you may find it easier and more effective to switch the blade block thumbscrews to the left hand side and the setscrews to the right hand side. This may give you more clamping pressure on the blade.

## Tensioning the Blade

Once the blade is selected and mounted, proper tension is needed to ensure optimum cutting results. Smaller blades require less tension. Larger blades require more tension. Generally, you can determine the correct blade tension by plucking the back of the blade. A high "C" sound is desired. On the Shopsmith Scroll Saws, however, correct blade tension can be determined through proper adjustment of the tensioning lever. Follow these steps to determine correct blade tension:

- Release blade tension by flipping the quick release tension lever forward.
- Feel the amount of play in the untensioned blade.
  - » If the blade is very loose, you are probably cutting with too little blade tension.
  - » If the blade is still tight, you are probably cutting with too much blade tension.

- If necessary, turn the tensioning lever clockwise ( to increase tension ) or counter-clockwise ( to decrease tension ) so that the blade is just loose enough to be removed and re-installed into the upper blade block

- Final tension of the blade is obtained by flipping the quick release tension lever back over onto the upper arm. You should now hear a high "C" pitch sound when plucking the blade.

## Adjusting the Hold-Down

To exert the proper hold-down pressure, the height of the hold-down can be adjusted. To adjust the height of the hold-down, loosen the hold-down lock knob and raise the foot and guard assembly. Place the stock against the rear of the blade and position the hold-down so that it rests on the stock. Push down slightly on the foot and guard assembly with one hand so that the hold down fingers flex. With the other hand, tighten the hold-down lock knob.

## Changing the Table Tilt

Loosen the trunnion lock. Adjust the table to the desired angle. Secure the trunnion lock.

## NOTE

If you need to tilt the table further than 30° to the right, you must first switch the lower blade block thumbscrew from the right side to the left side. Otherwise, the thumbscrew will hit the bottom of the table.



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Note: If you have further questions or need help, visit the Shopsmith or Woodworking Unlimited store in your area, or call Customer Services: Toll Free 1-800-762-7555. (In Canada, 1-416-858-2400.)

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