

Hidden Tilt Rod Building Instructions

For cutting the hidden tiltrod to the desired length, use a 24" bolt cutter. This makes a nice clean cut.

There are 3 building methods for hidden tilt rods. Each has its own positive and negative points. You will have to experiment to decide which works best for you. We will start with the easiest.

Special NOTES:

This is for our new 96" Hidden Tilt Rod, that has the slotted tab, and also is flat for superior aesthetics.

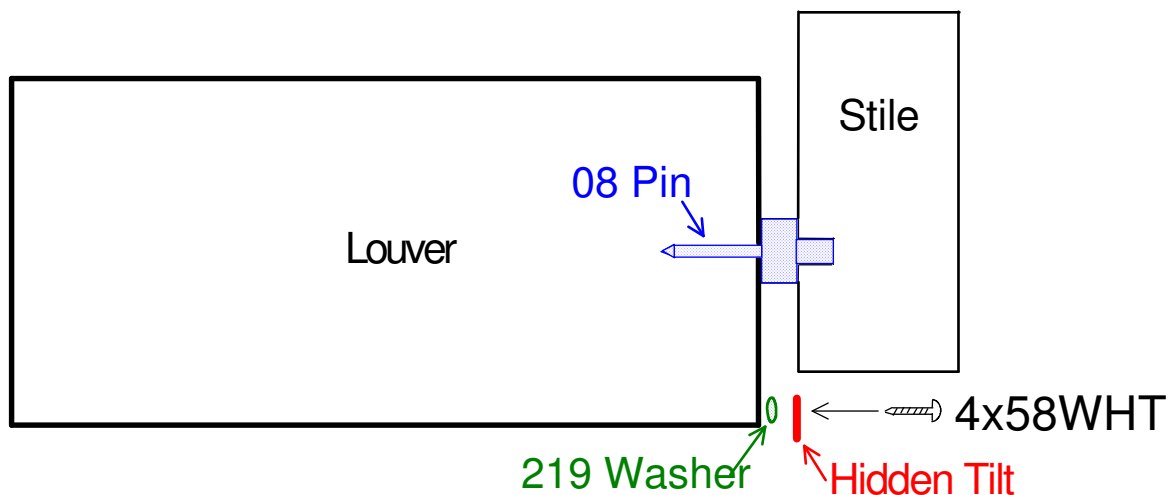
It is strongly recommended that you build a dedicated jig and drill station for the louver attachment point, so that centering, depth and location are consistent throughout the process. This is important for a smooth operation.

1) Hidden Tilt with 08 Hidden Tilt Rod Shutter Pin.

Parts needed: 08 hidden tilt rod shutter pins
HT-48 hidden tilt rod (4"-spacing, HT-38 for 3", or HT-28 for 2")
219 nylon washers
#4x58 WHT screws.

Simply cut louvers approximately $\frac{5}{32}$ " - $\frac{3}{16}$ " shorter than normal depending on your tolerances. Install 08 hidden tilt shutter pins for spacing.

Screw goes through hidden tilt rod hole, then through 219 nylon washer, and then into louver. The washer allows a smoother action against the louver.

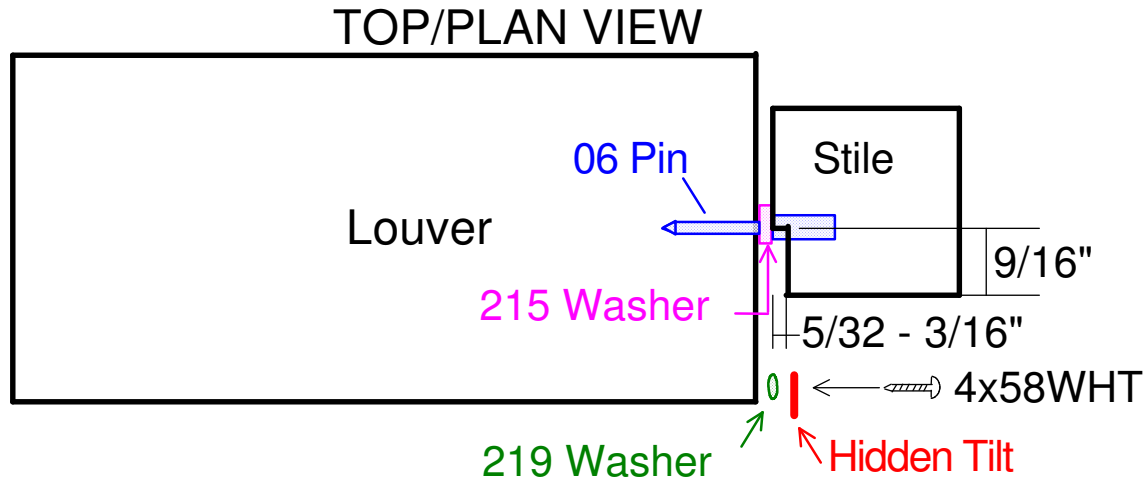


2) Hidden Tilt with Rabbeted Stile

This is aesthetically the nicest installation, but also the most work.

Parts needed are the Hidden Tilt Rod, 06 nylon pin, 215 nylon washers, 219 nylon washers, and #4x58 WHT screws.

Drill the stile first for the nylon pin holes, then rabbet approximately $5/32'' - 3/16''$ into stile, and approximately $9/16''$ deep, depending on your tolerances. This will take you slightly into the hole for the nylon pin into the stile. This is necessary for tight closure as the attach points for the screws will go lower than the surface of the nylon. For this reason we recommend an 06 nylon pin that has a $3/4''$ long insert into the stile, with the 215 washer. See drawing below.



3) Hidden Tilt with Notched Louver

This is the 3rd option and second easiest to build, especially if you are buying completed panels.

Parts needed are the Hidden Tilt Rod, 01 nylon pin, 219 nylon washers, and #4x58 WHT screws.

The back edge of the louver needs to be notched approximately $3/16''$ into louver and $5/16'' - 11/32''$ along edge of louver, depending on your tolerances. You can set up your table saw to make this cut.

Screw goes through hidden tilt rod hole, then through 219 nylon washer, and then into louver. The washer allows a smoother action against the louver.

