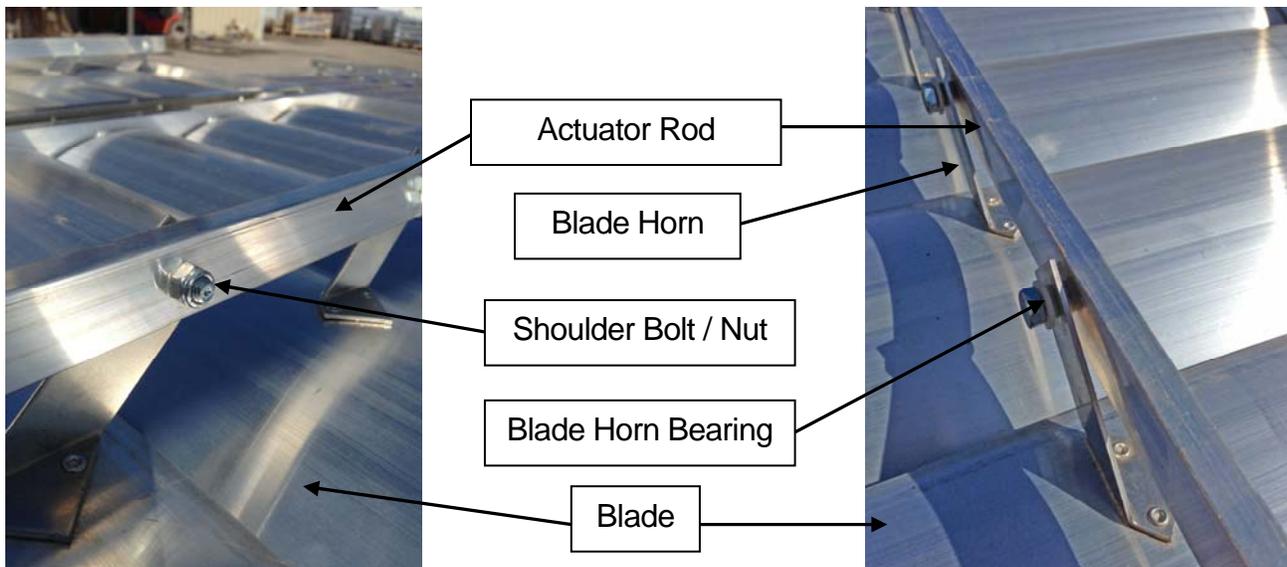


Replacing Louver Blades

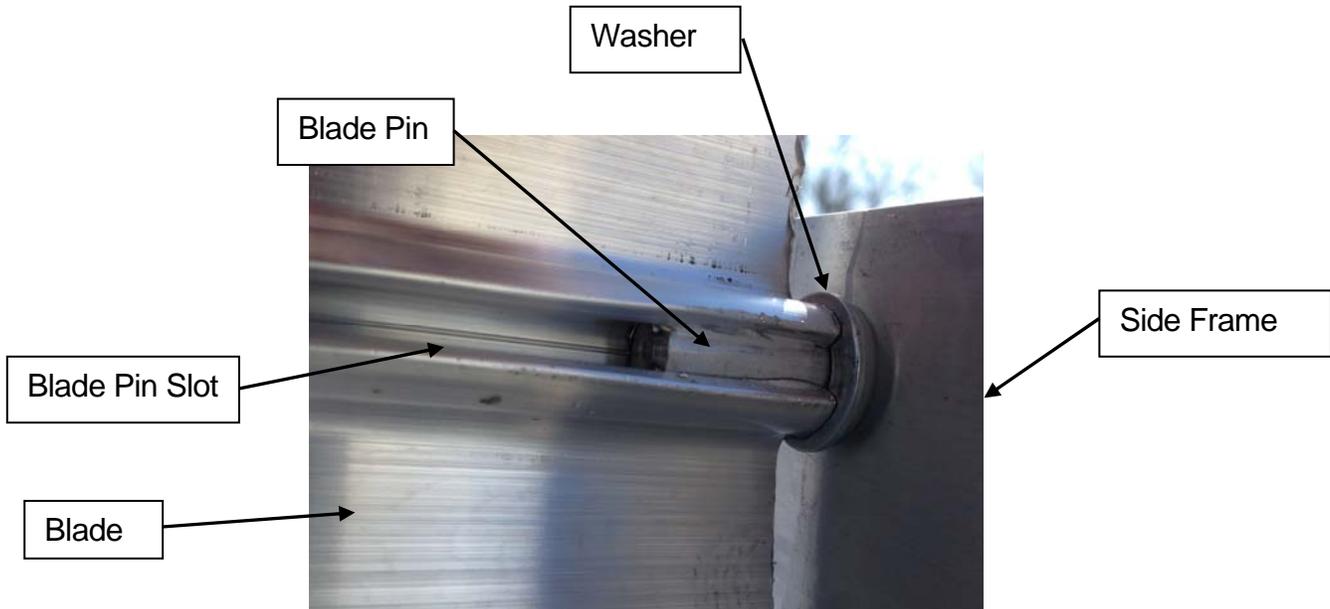
Replacement of a single or multiple louver blades while the louver assembly remains installed on an air cooled heat exchanger is easily done and accomplished in only a few steps.

During the repair process, care must be taken to avoid damage of adjacent blades and louver framework but this is easily accomplished by ensuring the repair team never stands directly on the louver blades and on the framework only as much as absolutely necessary. When necessary to be out on the louver, repairmen should always stand on lumber wide enough to span blades and rest on side frames / mid supports and only one person at a time.



REMOVAL OF DAMAGED BLADE

1. Ensure the heat exchanger is locked out and access to the louver is safe.
2. Lay plywood or suitable lumber on face of louver at or near the blade horn on the blades(s) to be replaced.
3. Remove and save the shoulder bolt / nut and bearing connecting the blade horn to the actuator rod.
4. Once disconnected from the actuator rod, manually move the blade to the fullest possible open position to gain access the blade pin.....(see photo below). You may have to move the plywood or lumber to accomplish this step.
5. Insert a flat blade screw driver into the pin slot on the blade and use a hammer to drive the pin out of the blade.
6. New installation hardware (blade pin, washer and bearing) will have been included w/the replacement blades. At your option, either retain and reuse the pin, washer and bearing or discard.
7. Once the pin is completely out of the blade lift the blade free of the frame and dispose.



INSTALLATION OF REPLACEMENT BLADE

1. Confirm the pin bearings are in place in both side frames
2. The replacement blade will ship from the factory with both blade pins installed. Remove the pin from the blade end that will be at the cooler edge and most accessible.
3. Install the washer to the remaining blade pin and insert the pin into the bearing in the far side frame.
4. Hold the blade in place at the near side frame and from the outside insert the blade pin through the bearing and washer into the blade pin slot.
5. Use a hammer to drive the blade pin into the blade pin slot until the end of the pin is projecting roughly .125" past the end of the bearing.
6. Manually rotate the newly installed blade to ensure it moves freely.
7. Reconnect the blade horn to the actuator rod using the previously removed hardware.
8. Test stroke the louver to ensure all blades move freely.