

## Restoration of historic riveted truss bridges

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### *Pack Rust removal procedure*



*Pack Rust*



*Rivet hammer with modified snap*

Pack rust is removed by using a rivet hammer with a modified snap and a buffer plate placed between the snap and the buckle.

To remove pack rust, heat is applied to the buckle with an oxygen fuel torch with a Rose Bud tip. The buckle is heated to just below 800 degrees F and a buffer plate is placed over the heated buckle. The hammering action of the rivet hammer drives out the rust from the buckle and flattens the plate. The heating and hammering is sequenced to prevent distortion. A few buckles are removed in one area and then the operation is moved to another buckle further away to keep from concentrating too much heat in one area.



*Heating pack rust buckle*



*Pack rust removed*