



N2537V

Following are the photos
from the re-skinning of the
rudder assembly



This was the condition of the rudder before drilling out the rivets and removing the skins.





The old aluminum was removed and the structure was cleaned. Alodine was used to protect the internal structure after cleaning with Alumiprep #33. New aluminum skins were ordered from Karl Anderson at Aircraft Northwest.



Structural rivets
AN442AD sizes
4 and 6,
AN455AD

Brazier Head
size 3 which are
the same as
originally used
along with

Cherry CR3213-
4-1 in a very
few places
where bucking
was not
possible.





The trailing edge and around the tail light housing were originally spot welded. I was not able to get a repeatable and secure spot welds so I decided to rivet the replacement skins.



A new rudder Bellcrank was used to replace the original that was rust covered and in poor condition.



Here is the finished rudder on 1/31/2010