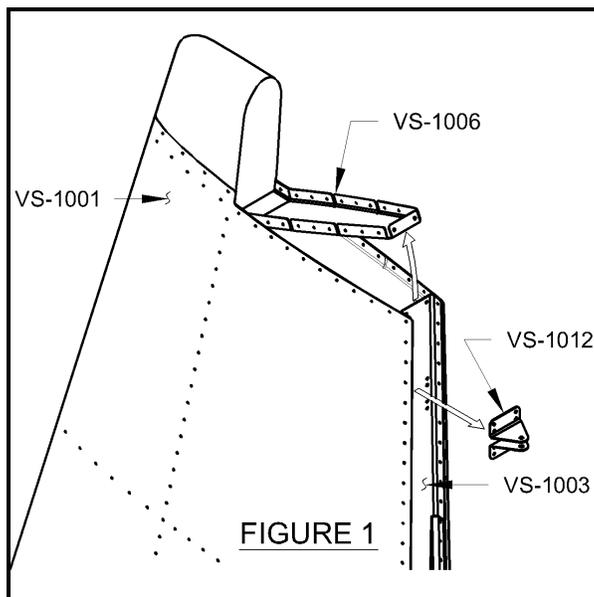


**SERVICE BULLETIN NUMBER SB 06-2-3**

DATE ISSUED February 3, 2006

APPLICATION RV-10 Vertical Stabilizer

BACKGROUND AND INTRODUCTION This Bulletin requires changes to the configuration of the RV-10 Vertical Stabilizer shipped prior to February 3, 2006. A crack in the web of the vertical stabilizer rear spar located at the top rudder hinge brackets has been discovered on one of the factory RV-10's. To prevent this, a hinge doubler is now required on the vertical stabilizer rear spar of all RV-10 aircraft. If a crack already exists in your rear spar, please contact Van's Aircraft for repair instructions.



REQUIRED ACTION To satisfy this Service Bulletin, install a hinge doubler as detailed below. The hinge doubler will be provided free of charge.

STEP 1. Drill off the two rivets attaching the VS-1006 Top Rib to the VS-1003 Rear Spar. Drill off enough of the rivets along both sides of the top rib to allow the top rib to be lifted as shown in Figure 1.

Drill off the eight rivets attaching the VS-1012 Top Rudder Hinge Brackets to the rear spar.

STEP 2. Final-Drill #30 the holes in the VS-1017 Hinge Doubler, shown in Figure 2, which are common to the VS-1012 Top Rudder Hinge Brackets.

Cleco the hinge doubler to the aft face of the VS-1003 Rear Spar web using the holes that were used to attach the top rudder hinge brackets. If necessary, rivets along one side of the rear spar that attach it to the VS-1001 Vertical Stab Skin can be drilled off for easier access.

Match-Drill #30 all of the remaining holes of the hinge doubler into the rear spar.

Uncleco the hinge doubler, deburr all holes, and prime if/as required.

STEP 3. Cleco and rivet the VS-1017 Hinge Doubler to the forward side of the VS-1003 Rear Spar using the rivets called-out in Figure 3.

Cleco and rivet the VS-1012 Top Rudder Hinge Brackets to the rear spar and the hinge doubler using the rivets called-out in Figure 3.

STEP 4. Rivet the VS-1006 Top Rib to the VS-1003 Rear Spar using AN470AD4-4 rivets. Rivet the VS-1001 Vertical Stab Skin to the top rib (and if necessary the rear spar) using AN426AD3-3.5 rivets.

