OPTIONAL - TAILDRAGGER PULL HANDLE ASSEMBLY

- Optional Pull Handle Assembly may be installed during or after Vertical Stabilizer Assembly is complete.
- 1. Refer to **SECTION 003** and collect all the parts shown on the part pages for the Pull Handle.
- 2. Separate the Pull Handle Doubler into 2 pieces.
- 3. Cleco doublers to each side of the Vertical Stab as shown on the parts page. Drill all holes to #30.
- 4. Find the center of the large hole in the doubler and drill the Vertical Stab Side Skin to 3/4" to match the doubler. *Hint: A stepped drill bit will help.*
- 5. Cut the 3/4" raw stock Aluminum tube .080" longer than the outside of the doublers. Cut long and trim a little at a time. Refer to **FIGURE 003-04**.
- 6. Remove the doublers and final size the side skins to 7/8".
- 7. Cut the 7/8" raw stock Aluminum Tube to be flush with the outside of the skins. Cut long and trim a little at a time.
- 8. Apply JB Weld or similar adhesive to the trimmed raw stock tubes. Slide together and install in the Vertical Stab between the doublers. Be sure to center the 3/4" tube inside the 7/8" tube. The 3/4" tube should extend .040" beyond the outside of the doublers on each side. Rivet doublers to Vertical Stab.
- 9. Fabricate the Pull Handle by cutting Raw Stock Tubes to length as shown in **FIGURE 003-05**. Apply JB Weld or similar adhesive to glue the 3/4" Aluminum Tube flush with the end of the 5/8" Aluminum Tube. Wipe off excess adhesive and allow to dry.
- 10. Slip Handle Grip over end of Handle Assembly.
- 11. Insert handle into Vertical Stab until against the 3/4" tube extending beyond the doubler. Place a mark flush with the opposite end of the tube. Remove handle from Vertical Stab.
- 12. Refer to **FIGURE 003-05** and locate a 1/4" hole for the Quick-Release Button to protrude through. The Button will lock the Pull Handle in place when fully inserted.
- 13. Insert Quick-Release Button into handle. Make sure the button can pop-up fully.
- 14. Insert handle into Vertical Stab, until locked in place, for easier handling of the S-21 OUTBOUND on the ground. Press the button to remove.