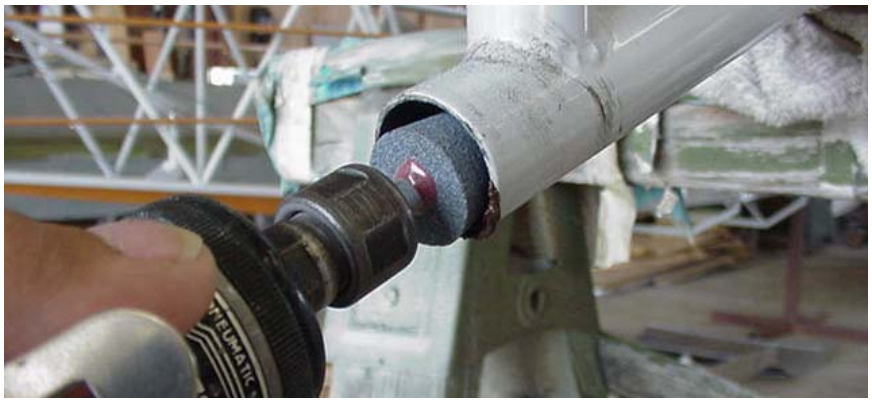
MODEL 12 TAIL WHEEL INSTALLATION

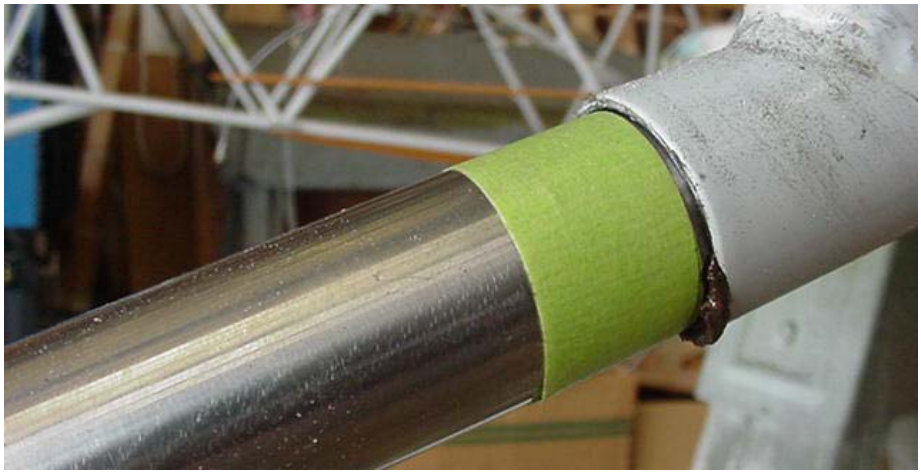


Clean out the tail wheel spring mount tube using a stone on a rotary tool or file.

Level the fuselage laterally (roll) across the top longerons at the turtle deck front bulkhead. No need to level the airplane longitudinally (pitch).

Install 2 AN3 bolts , washers and nuts as called out in the fuselage hardware list.

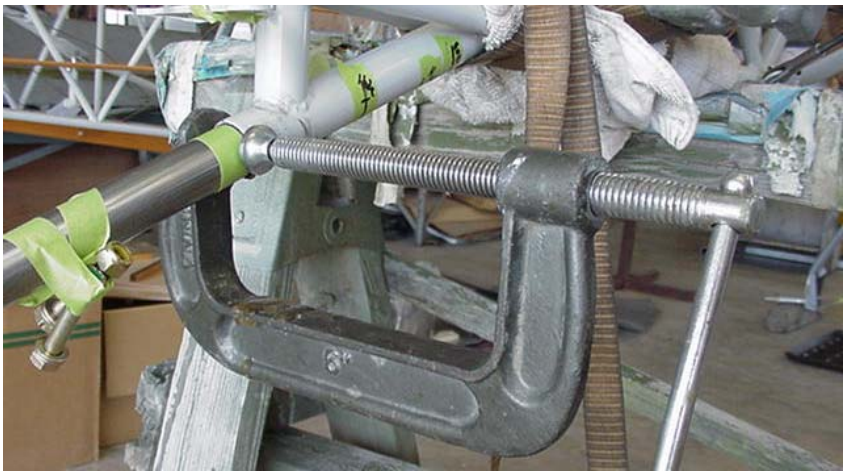
Examine the tail spring and find the length of the 1” diameter section. It is approx 6” long (varies). Mark as shown with tape at the end of the straight section.



Insert tail spring into tail mount tube up to tape mark. Use grease to help the spring slid into place. The spring should slide in easily and not require using a mallet to get it in place. If the spring will not slide in by hand, more cleaning is needed inside the tube.

Mark the mount tube at the end of the rod spring (recall you measurement from a previous step). Mark 2 points to drill attach bolt holes. 1 vertical ¾” aft of the end of the spring and the other 2” aft of the first mark and horizontal.

Swivel the tail wheel, fork and steering arm out to 90 degrees. Use a level to set the tail wheel true vertical to the longerons.



Clamp spring in place such that it will not move or rotate.

Using a #30 or 1/8” drill bit, drill thru the tail wheel mount tube on the right side and bottom only at the 2 previously marked points. Drill deep enough to mark the rod spring at these locations.

Remove the spring from the fuselage and see the hole locations. Drill the spring 1/8”, ¼”, 5/16” at 2 locations. If using a drill press, use liquid dish washing soap as a lube. Clean the tools afterwards to prevent rusting.

With rod spring removed from mount tube, drill the right and bottom holes ¼” and then 5/16” diameter to fit the AN5-14A bolts.

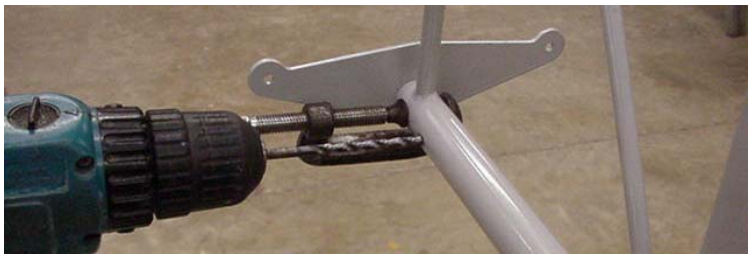
Reinsert the spring and line up the holes at right and bottom. Match drill right and bottom holes to spring. Drill thru the right hole and spring and thru the left side.

Insert bolt in rear hole and drill front hole thru top.

Insert front bolt and tighten both.

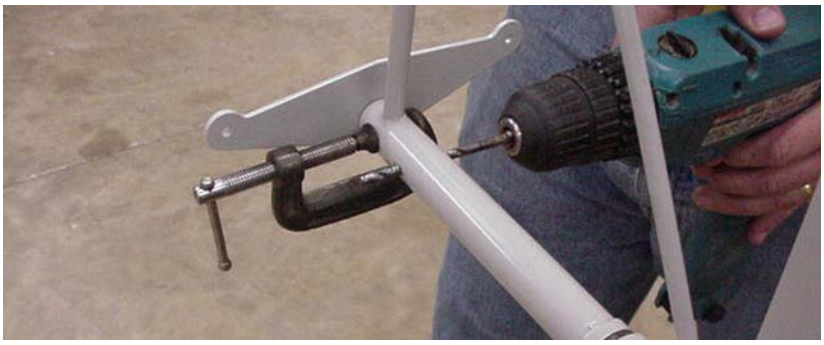
RUDDER HORN INSTALLATION

Clamp rudder steering arm into bottom of rudder. Clamp in place with chain holes parallel to cable horn holes.



Drill thru one side of top hole using a #12 (.189) bit.

Drill thru second side.



Continue thru the rudder into first hole.

Insert AN3-14A bolt in first hole and tighten. Drill second hole as the first one was drilled.

Insert Second AN3-14A bolt, nut and washers. Tighten.

STEERING SPRINGS

Assemble springs, chains and clips as shown. Install spring clip to rudder steering horn.

Install clips on tail wheel arm. Determine length of chain as shown and cut chain to length. Chain should be cut such that there is zero slack in chains.

Install chains on lower clips. Installation complete.