

TAIL WHEEL AND SPRING Sub-Section "D"



Maule Tail Wheel shown

MOUNT TAIL WHEEL

STEP 1: LIGHTEN SPRING

Grind the forward end of the P/N 33008 Tail Spring to a rounded shape with a 5/8" radius from the center of the hole. This is for lightening purposes only. The forward end is the longest straight section of the Spring.

STEP 2: PREPARE SPRINGS

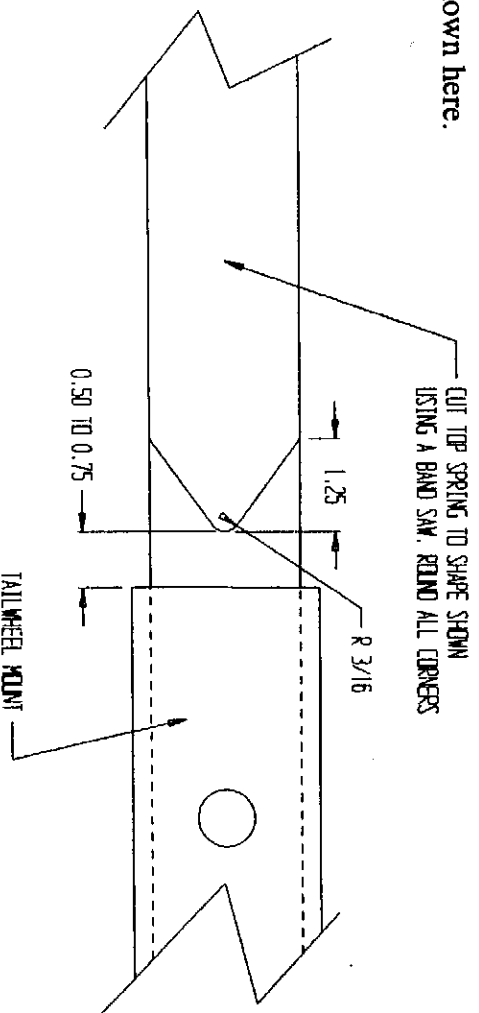
The Model IV and Speedster require a double tail spring, as shown in Fig. LG-D-2. You get two P/N 33008 springs in your kit. Cut down one spring so it has a V shaped end. See Fig. LG-D-1.

STEP 3: BOLT ASSEMBLY - SPRING

Bolt the P/N 39013 Tail Wheel Assembly to the Tail Spring. Bolt the P/N 33008 and the prepared P/N 33013 Tail Spring to the fuselage mount, per Fig. LG-D-2.

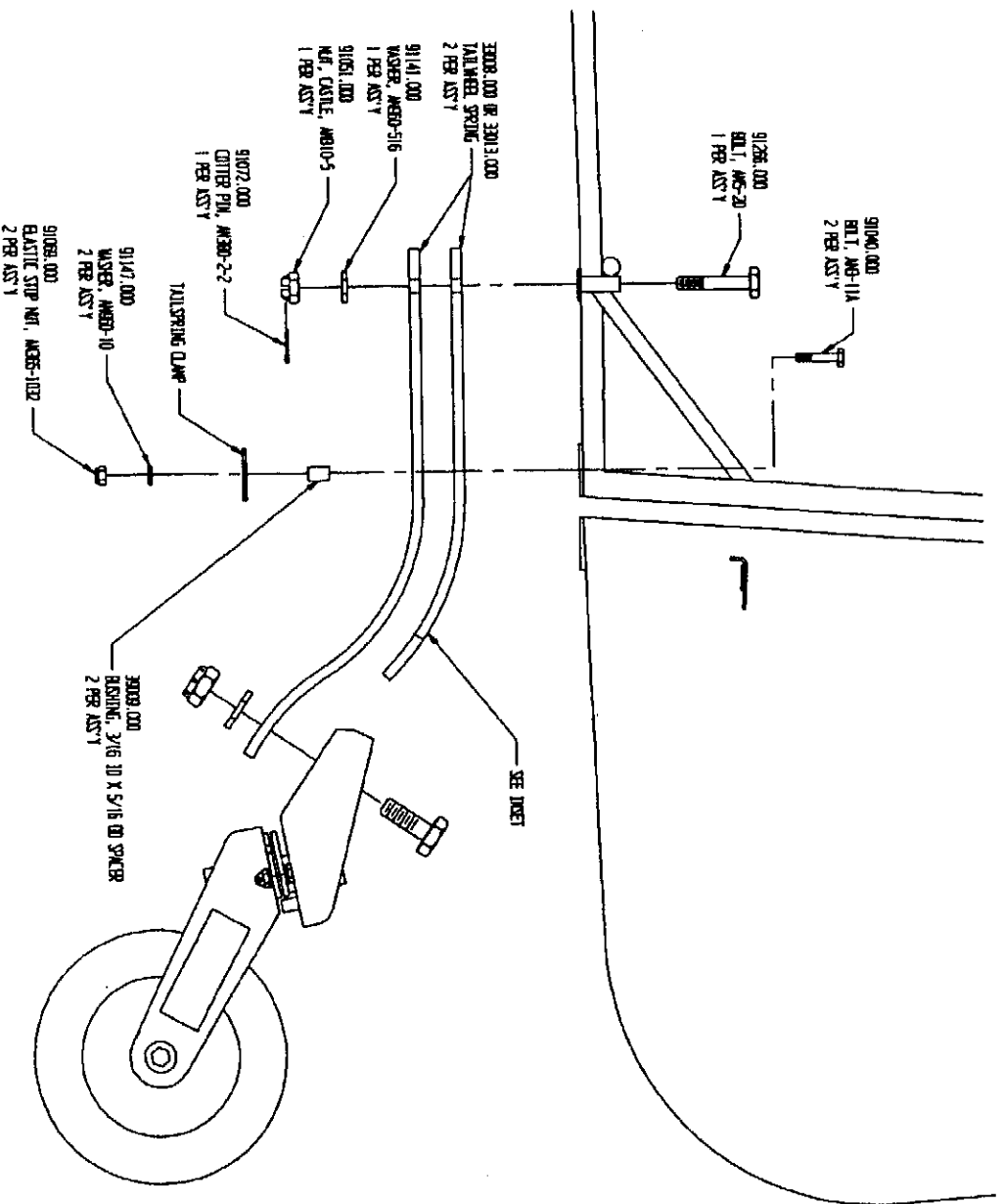


Dual Springs shown here.



Short Spring Detail
Fig. LG-D-1

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Tail Wheel/Spring Assembly
Fig. LG-D-2

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STEP 4: DRILL RUDDER HORN

Drill the two small holes in the ends of the Rudder Steering Horn out to #30 if you have not already done so. (This step should be accomplished prior to painting). Deburr their edges.

STEP 5: CHAIN - SPRING ASSEMBLY

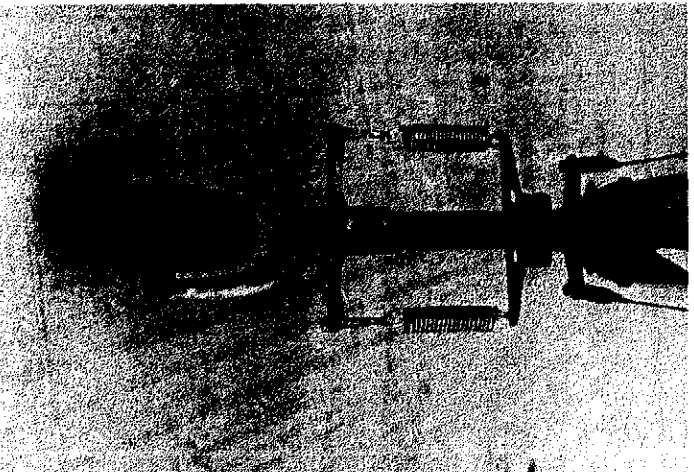
Install the P/N 33016 Tail Wheel Steering Springs on the Rudder. Hook the loop end of the P/N 33005 Tail Wheel Steering Chain on the hook of the Steering Spring and pull to meet the Tail Wheel Steering Arm. Cut the Chain and tie to the Steering Horn with five or six loops of Safety Tie wire. Ensure both sides are exactly even. The finished Chain-Spring assembly should cause both Springs to be slightly in tension when the Rudder and Tail Wheel are in a neutral position.

STEP 6: SECURE ATTACH BOLT

At some time before covering, the Tail Spring Attach Bolt should be permanently secured to the fuselage. Prep and use structural adhesive to secure it in the bushing. Once the fabric is on the aircraft it is very difficult to install.

NOTE: Removable chain links like those in the above picture, are available at most hardware stores.

Speedster Rudder -Tail Wheel horn -Spring set up



Model IV Rudder horn - Tail Wheel - Spring rigging

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