



(This Service Bulletin is FAA D.O. Authorization SW-1 Approved)

SUBJECT: Installation of Rudder Seals.  
MODELS AFFECTED: A/C M20F S/N's 670001 thru 670362.  
TIME OF COMPLIANCE: Within next 100 hours of operation.

#### INTRODUCTION:

Two (2) seals are to be added to the lower (bulb portion) rudder assembly to reduce the possibility of foreign matter accumulating inside this assembly.

#### INSTRUCTIONS:

Remove 460023 – Basic Rudder Assembly.

##### I. Install 460040 – Basic Seal as follows:

1. Remove one (1) AN470-AD3 rivet—joining laps of 460023 – 7 and – 9 ‘bulb’ skin. (Reference Sketch).
2. Insert seal-flanged upwards; locate approximately seven (7) inches from bottom edge of the rudder assembly.  
Edge of seal to be flush with edge of ‘bulb’ skins.
3. Attach this seal to ‘bulb’ skins with AN426-AD3 rivets—one (1) each through available pilot holes on seal.
4. Install AN470-AD3 rivet (removed on item 1) ‘picking-up’ flange of seal.

##### II. Install 460041 – Basic Seal as follows:

1. Insert seal-flanged down; locate approximately twelve (12) inches from bottom edge of rudder.  
Edge of seal and ‘bulb’ skins to be flush. (Reference Sketch).
  2. Attach forward flange—this skin to ‘bulb’ skins with AN470-AD3 rivets – one (1) each through available pilot holes on seal.
  3. Attach aft flange—this seal to 460033 – Basic Rib with AN470-AD3 rivets\* – one (1) each through available pilot holes on seal.
- \* May use CR 2249-4 Cherry Blind Rivets.

Re-install 460023 – Basic Rudder Assembly, and Rig according to 20 Series Mooney Service Manual.

#### PARTS LIST

1. 460040 – Basic Seal
2. 460041 – Basic Seal
3. AN426-AD3 – Rivets
4. AN470-AD3 – Rivets

These parts may be ordered from your local Mooney Distributor.  
Direct factory orders will not be accepted.

BOTTOM OF RUDDER ASSEMBLY (BULB PORTION)

SCALE - NONE

VIEW LOOKING TO LEFT SIDE OF RUDDER

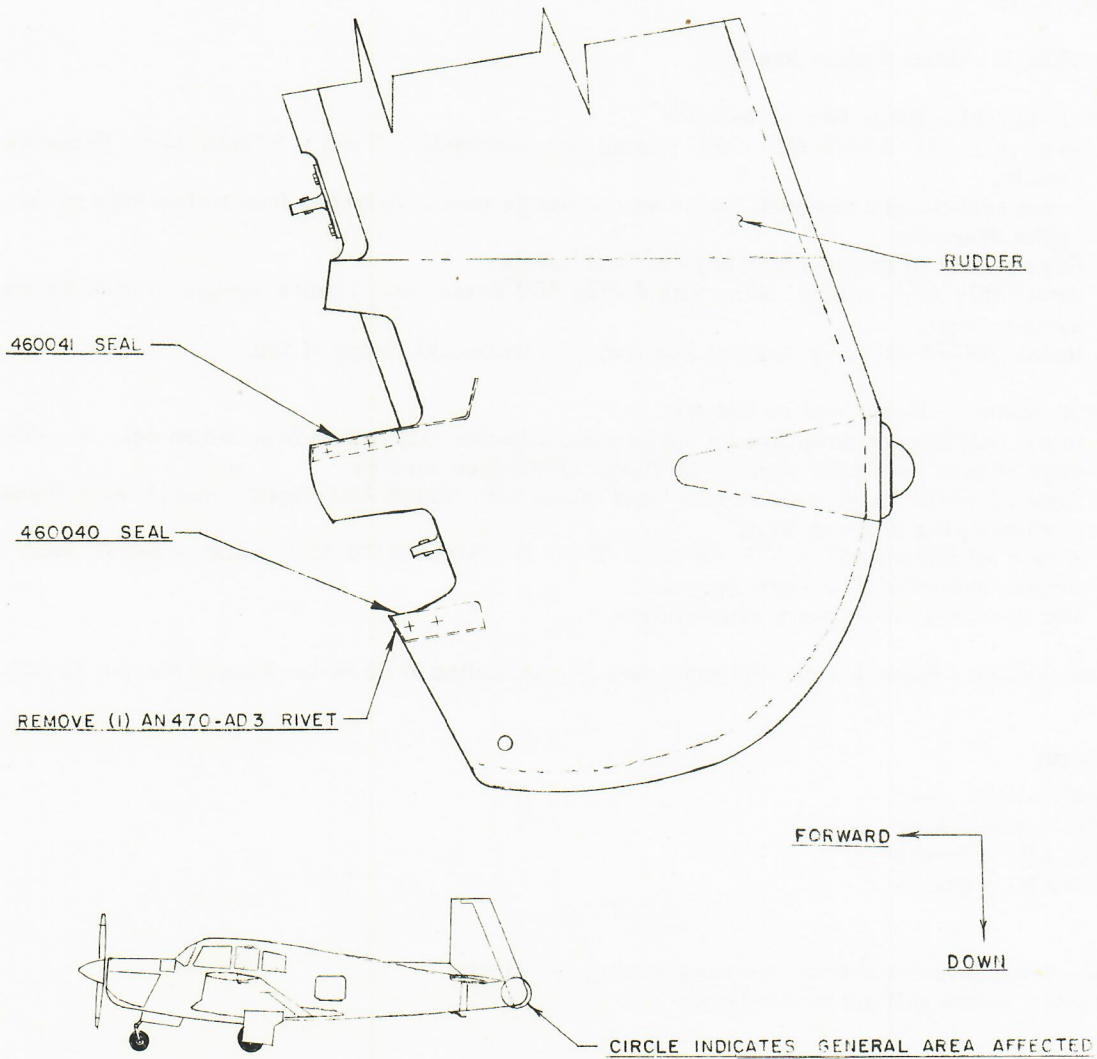


Figure 1