



# SERVICE BULLETIN

No. 211

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

F.A.A. Approved

November 2, 1962

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**SUBJECT:** Main Fuel Cell Cavity Modification

**MODELS AFFECTED:** PA-24 "250" Comanches, Serial Numbers 24-2844 to 24-2928 incl., 24-2930 to 24-2948 incl., 24-2950 to 24-2989 incl., 24-2991 to 24-3032 incl., 24-3034 to 24-3078 incl., 24-3080 to 24-3094 incl., 24-3096 to 24-3129 incl., 24-3131 to 24-3149 incl., 24-3151 to 24-3154 incl., 24-3156 to 24-3172 incl., 24-3174 to 24-3190 incl., 24-3192 to 24-3202 incl., 24-3205 to 24-3221 incl., 24-3223 to 24-3232 incl., 24-3235 to 24-3240 incl., 24-3242, 24-3243, 24-3245, 24-3246, 24-3247, 24-3249 to 24-3256 incl., 24-3259 to 24-3264 incl., 24-3266, 24-3267, 24-3269, 24-3271, 24-3272, 24-3275, 24-3278, 24-3281, 24-3282, 24-3284 to 24-3287 incl., 24-3289 and 24-3292.

**DATE OF COMPLIANCE:** Prior to but not later than the next 100 hour inspection

To eliminate the possibility of small amounts of undrainable fuel or water in the rear inboard corner of the main fuel cells, it is necessary that a shim be installed in the rear inboard corner of the left and right main fuel cell cavity. See sketch and instructions attached to this bulletin.

The material required for compliance with this bulletin is contained in kit, part number 754 492, which is available, free of charge, through your nearest Piper distributor or dealer.

Two (2) hours of warranty labor will be authorized upon the receipt of a duly executed Warranty and Credit Claim.

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## INSTALLATION INSTRUCTIONS

### MAIN FUEL CELL CAVITY MODIFICATION

1. Drain the fuel cell.
2. Remove the 21 flat-head screws from the oval cover plate on top of the wing panel and remove the plate.
3. Remove the sender unit by removing the four (4) screws.
4. Insert hand between the fuel cell and the top of the wing and release the two (2) inboard expansion clips. Also release one (1) bottom expansion clip. These clips fit into compartment holes and can be released by exerting pressure upward or downward manually.
5. Fold the fuel cell forward within the wing to clear the rear inboard corner of the cell cavity.
6. Remove rear inboard corner bottom clip from fuel cell and discard.
7. After fuel cell is folded forward, inspect the cell cavity and remove any foreign matter that may have accumulated.
8. Position the left shim 23677-00 or right shim 23677-01 in the rear inboard corner of the fuel cell cavity with the part number up. Insure proper clearance is maintained for the fuel outlet line. Trim forward edge of shim along edge of sump area.
9. With the shim held in place, mark around its edge with a marking pencil.
10. Coat the bottom side of the shim and the cavity area inside the line with 3M EC776 cement. Allow the cement to set approximately five (5) minutes, then install shim in its proper location.

#### NOTE

Insure shim is properly positioned before pushing down, as it will be difficult to position shim after cement has contacted.

11. Apply moleskin to the shim edge as shown per Sketch "A".
12. After unfolding the fuel cell within the wing, fasten the cell within the compartment and work out all wrinkles.
13. Replace sender unit assembly.

#### NOTE

Prior to securing the sender unit mounting plate, to the wing skin, insure vent tubes are properly connected.

14. Replace the oval cover plate, gaskets, and 21 flat-head screws.
15. Fill the fuel cell with 91/96 octane fuel and replace the filler neck plug and close cover.

