MODIFICATION FOR IMPROVED ENGINE COOLING (IO-360)

MODELS AFFECTED: M20E S/N's: 400, 470 thru 831, 832 thru 1217, 1219, 1221, 1223 thru 1308, 670001 thru 670062, 690001 thru 690073, 700001 thru 700039, 700041 thru 700043, 700045 thru 700052, 700055, 700056, 700060 and 700061.

M20F S/N's: 660002 thru 660004, 670001 thru 670363, 670365 thru 670385, 670387 thru 670482, 670484 thru 670539, 680001 thru 680206, 690003 thru 690090, 690092, 700001 thru 700061, 700063, 700066 thru 700070 and 700072.

TIME OF COMPLIANCE: AT OWNER'S OPTION.

INTRODUCTION: Addition of a fixed exit scoop on the lower engine cowl and three small baffles in front of no. 1 and no. 2 cylinders improves cooling characteristics and reduces peak temperatures. It is recommended that aircraft indicating high oil and/or cylinder head temperatures accomplish this modification.

INSTRUCTIONS: M20-182-1 Bulletin Kit is required to accomplish these instructions.

1. Remove upper and lower engine cowl.
2. Replace bottom skin immediately forward of nose gear with P/N 650112-3 exit scoop, P/N 650112-5 strap and hardware as shown in Figures 2 and 3.

   NOTE: Discard the removed bottom skin and attached fuel drain tubes.

3. Install fuel drain tubes P/N 610034-89 to tab on P/N 650112-5 with hardware as shown on Figures 3 and 4.
4. Install baffles P/N's 600213-25 (2) and 600213-D27 as shown in Figure 1.
5. Install decal P/N 150010-121 indicator (see Figure 2).
6. Reinstall upper and lower engine cowl.

SERVICE BULLETIN COMPLIANCE: To fully comply with this bulletin, fill out and mail enclosed bulletin compliance card.

M20-182-1 Kit:

650112-3 Exit Scoop .......................... (1)
650112-5 Strap ................................ (1)
610034-89 Drain Tubes ......................... (2)
AN3-5A Bolt ................................... (1)
MS21919 DG7 Clamp ............................ (2)
AN960-10 Washer .............................. (1)
MS20365-1032 Nut ............................. (1)
600213-D27 Angle/Baffle ...................... (1)
600213-25 Angle/Baffle ....................... (2)
150010-121 Decal .............................. (1)

Contact Aerostar Aircraft Customer Service Department for availability of parts -- Phone: 512/257/4043.
*P/N 600213-25 BAFFLE (PICK UP FIVE EXISTING MS 20470 AD3 RIVETS THRU PILOT HOLES IN BAFFLE)

*P/N 600213-D27 BAFFLE (PICK UP FIVE EXISTING AND ADD THREE MS 20470 AD3 RIVETS THRU PILOT HOLES IN BAFFLE)

* MAY INSTALL BAFFLES WITH EQUIVALENT BLIND RIVETS.

FIGURE 1. (VIEW LOOKING AFT. AT PROPELLER AND SPINNER)