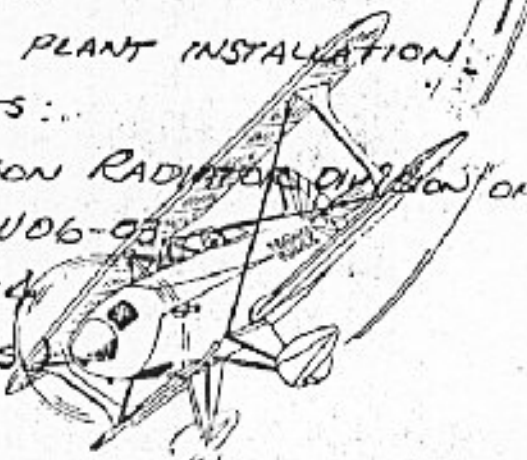


PITTS AVIATION ENTERPRISES, Inc.

P.O. BOX 548 • HOMESTEAD, FLORIDA 33030

SERVICE BULLETIN No. 116 July 1971

1. APPLICABILITY: THIS BULLETIN APPLIES TO PITTS AVIATION ENTERPRISES INC. AIRPLANES, MODELS S-2A, (200 1P) ONLY, SERIAL NUMBERS 2001 THRU 2005
2. THIS MODIFICATION IS TO ENSURE THAT EVEN UNDER THE MOST UNFAVORABLE COMBINATIONS OF MANEUVERS AT HIGH POWER SETTINGS AND LOW AIRSPEEDS AT HIGH AMBIENT TEMPERATURES THERE IS NO TENDENCY FOR THE ENGINE OIL TO EXCEED THE ESTABLISHED TEMPERATURE LIMIT OF 100° C.
3. THE MODIFICATION CONSISTS OF THE ADDITION OF ANOTHER OIL-COOLER IN SERIES WITH THE EXISTING COOLER.
4. INSTALLATION REQUIREMENTS:
 - A. FROM THE EXISTING POWER PLANT INSTALLATION DELETE THE FOLLOWING PART:
 - (a) 2-7009-5 HOSE, AEROQUIP 360-800350 FROM R.H. SIDE OF EXISTING COOLER TO AFT SIDE OF ENGINE.
 - B. TO THE EXISTING POWER PLANT INSTALLATION ADD THE FOLLOWING PARTS:
 - (a) OIL COOLER, HARRISON RADIATOR DIVISION OF GMC, MODEL AP0TAU06-03555 (SEE SKETCH, P. 4 OF 4 FOR MOUNTING DETAILS) (ONE REQ'D);



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5. (CONT'D)

(c) BELOW THE NEW CUTOUT IN THE MUFFLE, CENTERED ON THE CUTOUT, WITH THE HARDWARE ON ITEMS 4.B. (b), (c), (d), & (e) ABOVE, AND THE BOSSES ON THE COOLER FACING FORWARD.

(d) INSTALL THE (2) AN822-8D FITTINGS IN THE NEW COOLER.

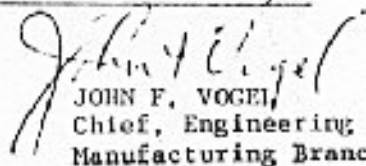
(e) INSTALL THE HOSES (ITEMS 4.B. (g) & (h) ABOVE AS INDICATED. SECURE THE AEROQUIP 360-8D024 HOSE TO THE FUEL LINE FROM THE ENGINE-DRIVEN FUEL PUMP TO THE THROTTLE BODY TWO PLACES, ONE FORWARD AND ONE AFT, WITH AN742-D12C CLAMP, AN742-D14C CLAMP, AN526-1032 R10 SCREW AND AN365-1032 NUT. (TYPICAL EACH PLACE). SECURE THE AEROQUIP 360-8D0264 HOSE NEAR ITS CENTER TO THE HOSE FROM THE ENGINE SUMP TO THE BOTTOM OF THE OIL SEPARATOR WITH (2) AN742-D14C CLAMPS, AN526-1032 R10 SCREW AND AN365-1032 NUT.

(f) CHECK ALL FITTINGS AND ATTACHMENTS FOR TIGHTNESS AND SECURITY.

APPROVED: PITTS AVIATION: E. J. DRAHNS

CHIEF ENGINEER

FEDERAL AVIATION AGENCY:


JOHN F. VOGEL
Chief, Engineering and
Manufacturing Branch

19 JULY 1978

