This Service Letter reidentified as Service Pulletin M 20 - 64 per Service Instruction M20-15.

(This Service Letter is FAA approved)

DATE:

March 10, 1960

SUBJECT:

Carburetor Air Box - Inspection and Rework

MODELS AFFECTED:

Noted in Each Part

TIME OF COMPLIANCE:

Noted in Introduction to Each Part

#### PART I

Inspection and replacement of carburetor air box valve. Models affected - M-20 Serial Nos. 1002-1151.

#### INTRODUCTION

A few cases have been reported in which the carburetor air box valve assembly P/N 6175 has failed in the group of airplanes listed above. This failure can cause a power loss if the valve is drawn over the carburetor inlet. Airplanes, after Serial No. 1151, were equipped with an improved valve, P/N 6175 made of heavier gauge material, which has given good service. It is necessary that an inspection be made and that the following rework be accomplished if the valve is defective. If the valve is not defective, it is recommended that the rework be accomplished when convenient to eliminate the possibility of a future failure. Parts are available at no charge. Order kit S. L. 20-64-1 from:

Spare Parts Department Mooney Aircraft, Inc. P. O. Box 72 Kerrville, Texas

Please send airplane registration number with order.

# PARTS LIST

Kit S. L. 20-64-1

(1) Air Box Valve Assembly P/N 6175 (1)

## INSPECTION INSTRUCTIONS

(1) Remove Carburetor Air Filter P/N 6382 and inspect Valve P/N 6175 for cracks as shown in Figure 1.

## REWORK INSTRUCTIONS

(1) Replace old valve with new P/N 6175 valve.

Service Letter 20-64 Page 2

#### PART 2

Inspection and replacement of Carburetor Dump Control P/N 6214. Models affected M-20 and M-20A Serial Nos. 1002-1574.

#### INTRODUCTION

Several cases have been reported in which the shaft of P/N 6214, Air Dump Control, became worn and caused the dump valve to bind. If this condition is allowed to continue, the shaft may break and the valve be carried into the carburetor, It is necessary that an inspection be made and that the following rework be accomplished if the shaft is defective. If P/N 6214 is not defective, it is recommended that this rework be accomplished when convenient to eliminate the possibility of a future failure. Parts are available at no charge.

Order Kit S. L. 20-64-2.

#### PARTS LIST

Kit	S. L. 20-64-2	
(1)	Air Dump Control P/N 6385	(1)
(1) $(2)$	AN 960-416L	(1)
(3)	AN 960 <del>-</del> 416	(1)
(4)	AN 380-3-3 (Pin Cotter)	(1)

#### INSPECTION INSTRUCTIONS

(1) Remove left hand side cowl and inspect dump control P/N 6214 for wear and P/N 6186 for binding as shown in Figure 2.

## REWORK INSTRUCTIONS

- (1) Remove old Carburetor Dump Valve P/N 6214.
- (2) Install Kit S. L. 20-64-2 as shown in Figure 2.

## PART 3

Inspection and rework of Bearing Plates P/N 6176. Models affected, M-20 and M-20A Serial Nos. 1002 - 1542.

## INTRODUCTION

Several cases have been reported in which the rivets which fasten bearing plates P/N 6176 to the air box failed and allowed the carburetor cold air valve shaft to wear on the air box sides. This action may cause the carburetor control to operate improperly. It is necessary that an inspection be made and that the following rework be accomplished if the rivets have failed. If the rivets are secure, it is recommended that this rework be accomplished when convenient to eliminate the possibility of a future failure. Parts are available at no charge,

Service Letter 20-64 Page 3

Order Kit S. L. 20-64-3.

# PARTS LIST

Kit S. L. 20-64-3

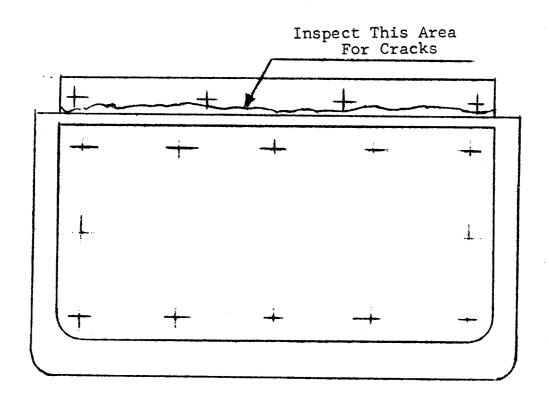
- (1) Bearing P/N 6432 (2)
- (2) AN 470-A3 (8)

## INSPECTION INSTRUCTIONS

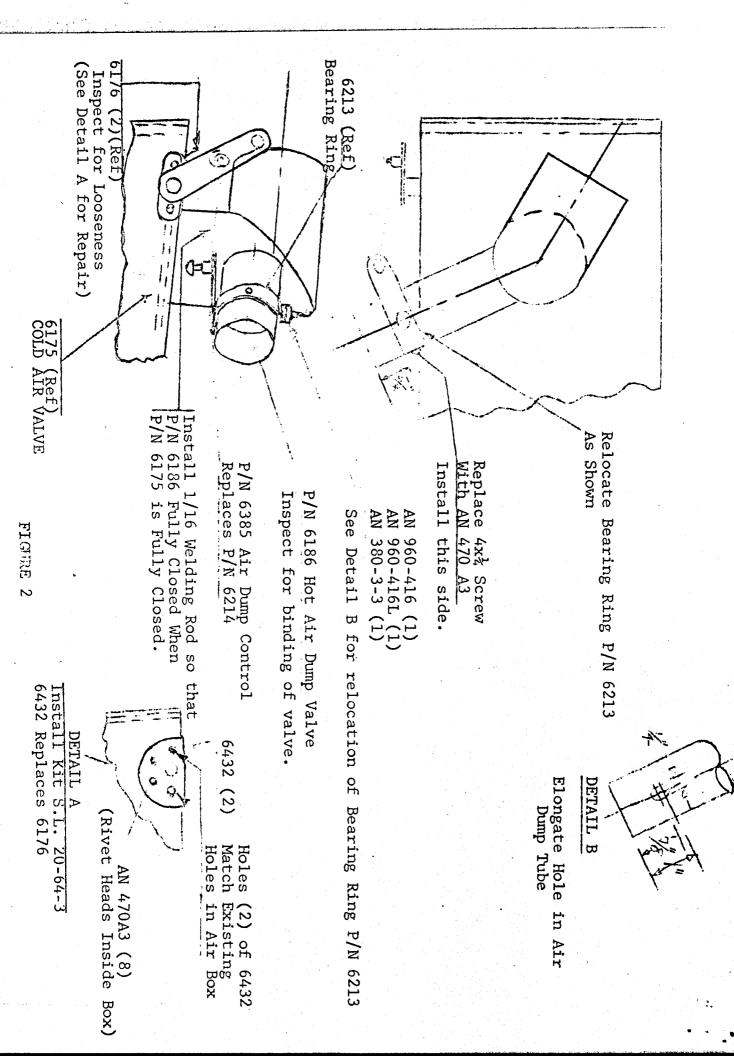
(1) Inspect P/N 6176 for looseness as shown in Figure 2.

# REWORK INSTRUCTIONS

- (1) Remove P/N 6176 (2 places).
- (2) Install Kit S. L. 20-64-3 as shown in Figure 2.



INSPECTION OF P/N 6175
FIGURE I



20-64 (4)