

# Maule Aircraft Corporation

SPENCE AIR BASE :: MOULTREE, GEORGIA 31768 :: PHONE 912/985-2045



15 December 1983  
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## SERVICE BULLETIN #6

**SUBJECT:** Auxiliary Gas Tank Vent Line Check Valve.

**AIRCRAFT AFFECTED:** Maule Models (equipped with Auxiliary Fuel Tank Vent Line Check Valves only): M-5-180, s/n's 8004C thru 8014C, 8016C thru 8019C; M-6-180, s/n 8020C; M-5-200, s/n 8022C; M-5-210TC, s/n's 9001C thru 9010C; M-5-235C, s/n's 7290C thru 7355C, 7357C thru 7376C, 7451C; M-6-235, s/n's 7249C, 7356C, 7379C thru 7432C, 7434C thru 7443C, 7446C thru 7450C, 7453C thru 7455C, 7458C; M-7-235, s/n's 4002C, 4007C and all aircraft retrofitted with Auxiliary Fuel Tank Vent Line Check Valves per Service Aid #1.

**COMPLIANCE TIME:** Immediate compliance is recommended.

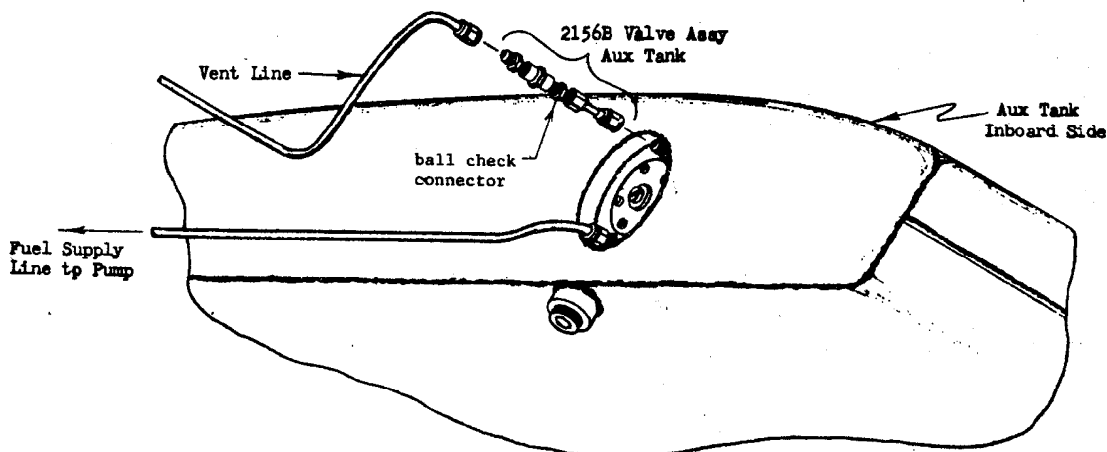
**STATUS:** Considered mandatory.

**AUTHORITY:** This Service Bulletin is FAA Approved.

**BACKGROUND:** There is a possibility that the spring in the ball check connector in the check valve assembly is incorrectly positioned causing valve to be ineffective in properly venting tank.

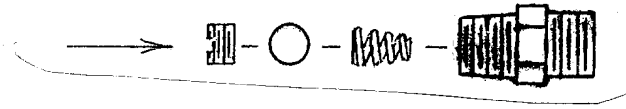
### ACTION TO BE TAKEN AND INSTRUCTIONS:


1. Check for proper venting of left and right auxiliary fuel tanks by the following procedure:
  - a. Remove Auxiliary Fuel Tank cap.
  - b. Place 1/4" I.D. hose over aft 1/4" vent line below wing (3/8" line is main tank vent). Ascertain hose has covered small hole in vent line located just under wing skin.
  - c. Blow air through hose. If air passes freely through valve to tank, valve is alright and no further inspection of valve is necessary.
2. If air passage is blocked, correct by the following procedure:
  - a. Remove ball check connector shown in sketch:



ACTION TO BE TAKEN AND INSTRUCTIONS: (Cont'd)

- b. Remove retainer screw, ball and spring. Reverse spring and reassemble as shown in sketch below:



- c. Set punch (2 places) after setting retainer flush with ball check connector housing end as shown below:
- 
- d. Reinstall ball check connector in same position in valve assembly.
- e. Check for proper installation by repeating procedure in 1.b.
3. If Auxiliary tanks are equipped with Stant caps identified by "S" impressed on the top side in center of caps, remove nylon inserts from Center of gas caps by drilling (#30) through inserts from underside but not through top plate of caps. Be sure all nylon particles are removed before replacing caps to tanks. This procedure results in vented caps.
4. Add statement to the Aircraft Log Book pertaining to compliance with this Service Bulletin #6. Also, fill out the enclosed compliance record sheet and return to Maule Aircraft Corporation as soon as possible.

NOTE: Stant caps with "VENTED" impressed on top are OK as is.

# MAULE AEROSPACE TECHNOLOGY, INC.

LAKE MAULE -- RT. 5, BOX 318 -- MOULTRIE, GA. 31768 -- PHONE (912) 985-2045 -- TELEX 804613 MAULE MOUL

## COMPLIANCE RECORD

Date \_\_\_\_\_

## SERVICE BULLETIN #6

Aircraft Model \_\_\_\_\_

Serial Number \_\_\_\_\_

Registration Number \_\_\_\_\_

In respect to this Service Bulletin, please check any of the following that apply:

- This aircraft is NOT equipped with Auxiliary Fuel Tank Vent Line Check Valves p/n 2156B.
- This aircraft is NOT equipped with Stant caps with "PRESSURE VACUUM" impressed on top nor with any non-vented gas caps.
- Auxiliary Fuel Tank Vent Line Check Valves on both sides have been inspected per this Service Bulletin and have been found to be venting properly.
- Check Valves were found to be inoperative and have been corrected per this Service Bulletin #6.
- This aircraft is equipped with Stant caps with "PRESSURE VACUUM" impressed on top that have been modified per this Service Bulletin #6 and are now vented.
- I NO LONGER OWN THIS AIRCRAFT. It was sold to:

Name \_\_\_\_\_

Address \_\_\_\_\_ Zip \_\_\_\_\_

CERTIFIED BY \_\_\_\_\_  
Signature

TITLE \_\_\_\_\_  
Owner, A & P, IA, etc.

DATE PERFORMED \_\_\_\_\_

In an effort to keep our mailing list current, please fill in the following:

Owner's Name \_\_\_\_\_

Owner's Address \_\_\_\_\_ Zip \_\_\_\_\_

Mail this Compliance Record to: Maule Aerospace Technology, Inc./Engineering  
Records/ Moultrie, GA. 31768