

**AA-5 SERIES
MAINTENANCE MANUAL**

CHAPTER 11
PLACARDS AND MARKINGS

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**AA-5 SERIES
MAINTENANCE MANUAL**

PLACARDS AND MARKINGS

1. **General**

This Chapter contains information relating to placards used on the AA-5, AA-5A and AA-5B aircraft which define aircraft limitations and/or flight safety data required by FAA regulations to be properly affixed to the aircraft. Also shown in this chapter are placards which provide the pilot, passengers and maintenance personnel with aircraft operational data.

2. **Placard Locations**

The appearance, content and location of all placards are contained in Figure 1 and Figure 2. The exterior placards are shown in Figure 1, while the interior placards are shown in Figure 2.

Located on each side of vertical stabilizer.

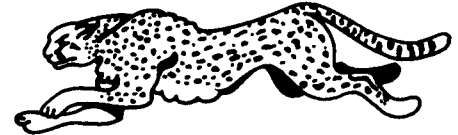


AA-5, AA-5A and AA-5B

Located on each side of aft fuselage aft of rear window.

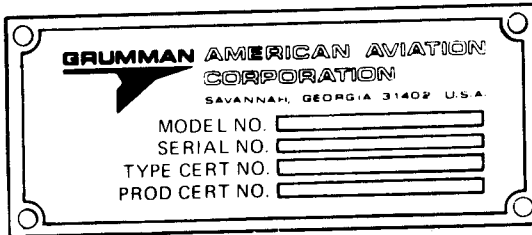


AA-5B



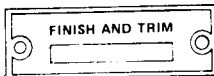
AA-5A

Located on left rear fuselage below horizontal stabilizer.



AA-5, AA-5A and AA-5B

Located on firewall



AA-5, AA-5A and AA-5B

Located on firewall.

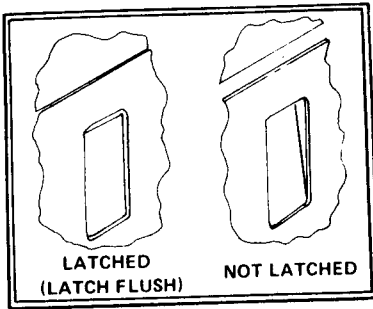


AA5-0001 thru 0834
AA5A-0001 and Subsequent
AA5B-0001 and Subsequent

Exterior Placards
Figure 1 (Sheet 1 of 4)

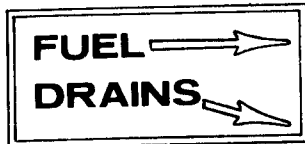
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Located on inside of engine cowling.



AA5-0641 thru 0834
AA5A-0001 and Subsequent
AA5B-0001 and Subsequent

Located on left and right side of fuselage forward of wing root.

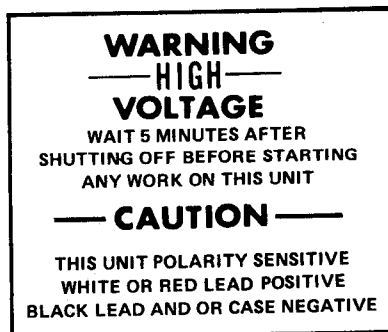


AA5-0001 thru 0834
AA5A-0001 and Subsequent
AA5B-0001 and Subsequent

Located adjacent to auxiliary power plug (if installed)

**CAUTION: 12 VOLT
D.C. ONLY, MASTER
SW. MUST BE OFF**

Located on wing outer ribs (if strobe lights are installed)



Exterior Placards
Figure 1 (Sheet 2 of 4)

**AA-5 SERIES
MAINTENANCE MANUAL**

Located adjacent to fuel tank caps

**FUEL
MIN 80/87 OCT
19 U.S. GAL. CAP**

**AA5-0001 thru 0834
AA5A-0001 and Subsequent (standard tanks)**

**FUEL
MIN 80/87 OCT.
26.3 U.S. GAL. TOTAL CAP.
19.0 U.S. GAL. TO TAB**

AA5A-0001 and Subsequent (long-range tanks)

**FUEL
MIN 100/130 OCT
26.3 U.S. GAL. TOTAL CAP.
19.0 U.S. GAL. TO TAB**

AA5B-0001 and Subsequent

Located on left and right wing at fuel filler cap



AA5B-0022 and Subsequent

Located on right wing leading edge

**DO NOT PAINT
VANE OR SLOT**

Located on left and right wing root and flaps (2 places on each wing)

NO STEP

**Exterior Placards
Figure 1 (Sheet 3 of 4)**

**AA-5 SERIES
MAINTENANCE MANUAL**

Located at either canopy track on fuselage

LEVEL AIRPLANE HERE

AA-5, AA-5A and AA-5B

Located on left and right side of canopy (exterior).

NO PUSH
CLOSE CANOPY WITH
LATCH HANDLE

AA5-0001 thru 0834
AA5A-0001 and Subsequent
AA5B-0001 and Subsequent

Located on aft fuselage above left horizontal stabilizer

EMERGENCY ACCESS - CRASH LOCATOR BCN:
PROTECT HANDS, PULL AND RIP COVER OPEN HERE,
MANUALLY ACTIVATE THE TRANSMITTER-BCN BY
PUSHING THE TOGGLE SWITCH TOWARD THE
TOP OF THE FUSELAGE TO THE ON POSITION.



AA5-0525 thru 0834 (if installed)
AA5A-0001 and Subsequent
AA5B-0001 and Subsequent

Located on bracket attached to battery box.

H METER
DOME LT.
+
5
+
CLOCK

AA5-0001 thru 0834
AA5A-0001 and Subsequent
AA5B-0001 and Subsequent

Located on each side of forward fuselage below lower aft corner of windshield.



AA-5A and AA-5B

Exterior Placards
Figure 1 (Sheet 4 of 4)

Located on left hand rail

THIS AIRPLANE MUST BE OPERATED AS A NORMAL OR UTILITY CATEGORY AIRPLANE IN COMPLIANCE WITH THE OPERATING LIMITATIONS STATED IN FORM OF PLACARDS, MARKINGS AND MANUALS.

NORMAL CATEGORY
 MAXIMUM DESIGN WEIGHT 2200 LBS
 DESIGN MANEUVERING SPEED V_A 122 MPH CAS
 FLIGHT LOAD FACTORS FLAPS UP +3.8 -1.52 FLAPS DOWN +3.5
 NO AEROBATIC MANEUVERS, INCLUDING SPINS, APPROVED.

UTILITY CATEGORY
 MAXIMUM DESIGN WEIGHT 1850 LBS
 DESIGN MANEUVERING SPEED V_A 122 MPH CAS
 FLIGHT LOAD FACTORS FLAPS UP +4.4 -1.76 FLAPS DOWN +3.5
 REAR SEAT MUST NOT BE OCCUPIED

— AEROBATIC MANEUVERS ARE LIMITED TO THE FOLLOWING: —

<u>MANEUVER</u>	<u>ENTRY SPEED - CAS</u>
CHANDELLES	122 MPH
LAZY EIGHTS	122 MPH
STEEP TURNS	122 MPH
STALLS (EXCEPT WHIP STALLS)	SLOW DECELERATION
SPINS PROHIBITED	

MAXIMUM ALTITUDE LOSS IN STALL 350 FEET
 DEMONSTRATED CROSSWIND VELOCITY 18 MPH

THIS AIRPLANE NOT APPROVED FOR FLIGHT IN ICING CONDITIONS.

THIS AIRPLANE IS CERTIFIED FOR THE FOLLOWING OPERATIONS AS OF DATE OF ORIGINAL AIRWORTHINESS CERTIFICATE, IFR, VFR, DAY, NIGHT. REFER TO WEIGHT AND BALANCE DATA FOR LOADING INSTRUCTIONS. READ FUEL GAUGES IN LEVEL FLIGHT ONLY. FOR NORMAL OPERATION - MAINTAIN FUEL BALANCE.

AA5-0001 thru 0834

Located on left hand rail

THIS AIRPLANE MUST BE OPERATED AS A NORMAL OR UTILITY CATEGORY AIRPLANE IN COMPLIANCE WITH THE OPERATING LIMITATIONS STATED IN FORM OF PLACARDS, MARKINGS AND MANUALS.

NORMAL CATEGORY
 MAXIMUM DESIGN WEIGHT 2200 LBS
 DESIGN MANEUVERING SPEED V_A 122 MPH CAS
 FLIGHT LOAD FACTORS FLAPS UP +3.8 -1.52 FLAPS DOWN +3.5
 NO AEROBATIC MANEUVERS, INCLUDING SPINS, APPROVED

UTILITY CATEGORY
 MAXIMUM DESIGN WEIGHT 1850 LBS
 DESIGN MANEUVERING SPEED V_A 122 MPH CAS
 FLIGHT LOAD FACTORS FLAPS UP +4.4 -1.76 FLAPS DOWN +3.5
 REAR SEAT MUST NOT BE OCCUPIED

— AEROBATIC MANEUVERS ARE LIMITED TO THE FOLLOWING: —

<u>MANEUVER</u>	<u>ENTRY SPEED - CAS</u>
CHANDELLES	122 MPH
LAZY EIGHTS	122 MPH
STEEP TURNS	122 MPH
STALLS (EXCEPT WHIP STALLS)	SLOW DECELERATION
SPINS PROHIBITED	

MAXIMUM ALTITUDE LOSS IN STALL 350 FEET
 DEMONSTRATED CROSSWIND VELOCITY 18 MPH

THIS AIRPLANE NOT APPROVED FOR FLIGHT IN ICING CONDITIONS

THIS AIRPLANE IS CERTIFIED FOR THE FOLLOWING OPERATIONS: IFR, VFR, DAY, NIGHT, WHEN PROPERLY EQUIPPED PER FAR 91. REFER TO WEIGHT AND BALANCE DATA LOADING INSTRUCTIONS. READ FUEL GAUGES IN LEVEL FLIGHT ONLY. FOR NORMAL OPERATION - MAINTAIN FUEL BALANCE.

AA5A-0001 thru 0282

Interior Placards
Figure 2 (Sheet 1 of 9)

Located on left hand rail

THIS AIRPLANE MUST BE OPERATED AS A NORMAL OR UTILITY CATEGORY AIRPLANE IN COMPLIANCE WITH THE OPERATING LIMITATIONS STATED IN FORM OF PLACARDS, MARKINGS, AND MANUALS.

NORMAL CATEGORY
 MAXIMUM DESIGN WEIGHT 2200 LBS
 DESIGN MANEUVERING SPEED V_A 106 KNOTS CAS
 FLIGHT LOAD FACTORS FLAPS UP +3.8 -1.52 FLAPS DOWN +3.5
 NO ACROBATIC MANEUVERS, INCLUDING SPINS, APPROVED

UTILITY CATEGORY
 MAXIMUM DESIGN WEIGHT 1850 LBS
 DESIGN MANEUVERING SPEED V_A 106 KNOTS CAS
 FLIGHT LOAD FACTORS FLAPS UP +4.4 -1.76 FLAPS DOWN +3.5
 REAR SEAT MUST NOT BE OCCUPIED

— ACROBATIC MANEUVERS LIMITED TO THE FOLLOWING —

<u>MANEUVER</u>	<u>ENTRY SPEED - CAS</u>
CHANDELLES	106 KNOTS
LAZY EIGHTS	106 KNOTS
STEEP TURNS	106 KNOTS
STALLS (EXCEPT WHIP STALLS)	SLOW DECELERATION

SPINS PROHIBITED

MAXIMUM ALTITUDE LOSS IN STALL 350 FEET
 DEMONSTRATED CROSSWIND VELOCITY 16 KNOTS

THIS AIRPLANE NOT APPROVED FOR FLIGHT IN ICING CONDITIONS.

THIS AIRPLANE IS CERTIFIED FOR THE FOLLOWING OPERATIONS: IFR, VFR, DAY, NIGHT, WHEN PROPERLY EQUIPPED PER FAR 91. REFER TO WEIGHT AND BALANCE DATA FOR LANDING INSTRUCTIONS. READ FUEL GAUGES IN LEVEL FLIGHT ONLY. FOR NORMAL OPERATION - MAINTAIN FUEL BALANCE.

AA5A-0283 and Subsequent

Located on left hand rail

THIS AIRPLANE MUST BE OPERATED AS A NORMAL OR UTILITY CATEGORY AIRPLANE IN COMPLIANCE WITH THE OPERATING LIMITATIONS STATED IN FORM OF PLACARDS, MARKINGS AND MANUALS.

NORMAL CATEGORY
 MAXIMUM DESIGN WEIGHT 2400 LBS
 DESIGN MANEUVERING SPEED V_A 130 MPH CAS
 FLIGHT LOAD FACTORS FLAPS UP +3.8 -1.52 FLAPS DOWN +3.5
 NO ACROBATIC MANEUVERS, INCLUDING SPINS, APPROVED.

UTILITY CATEGORY
 MAXIMUM DESIGN WEIGHT 2050 LBS
 DESIGN MANEUVERING SPEED V_A 130 MPH CAS
 FLIGHT LOAD FACTORS FLAPS UP +4.4 -1.76 FLAPS DOWN +3.5
 REAR SEAT MUST NOT BE OCCUPIED

ACROBATIC MANEUVERING LIMITED TO THE FOLLOWING

<u>MANEUVER</u>	<u>ENTRY SPEED - CAS</u>
CHANDELLES	130 MPH
LAZY EIGHTS	130 MPH
STEEP TURNS	130 MPH
STALLS (EXCEPT WHIP STALLS)	SLOW DECELERATION

SPINS PROHIBITED

MAXIMUM ALTITUDE LOSS IN STALL 350 FEET
 DEMONSTRATED CROSSWIND VELOCITY 18 MPH

THIS AIRPLANE NOT APPROVED FOR FLIGHT IN ICING CONDITIONS.

THIS AIRPLANE IS CERTIFIED FOR THE FOLLOWING OPERATIONS: IFR, VFR, DAY, NIGHT, WHEN PROPERLY EQUIPPED PER FAR 91. REFER TO WEIGHT AND BALANCE DATA FOR LOADING INSTRUCTIONS. READ FUEL GAUGES IN LEVEL FLIGHT ONLY. FOR NORMAL OPERATION - MAINTAIN FUEL BALANCE.

AA5B-0001 thru 0399

Interior Placards
Figure 2 (Sheet 2 of 9)

Located on left hand rail

THIS AIRPLANE MUST BE OPERATED AS A NORMAL OR UTILITY CATEGORY AIRPLANE IN COMPLIANCE WITH THE OPERATING LIMITATIONS STATED IN FORM OF PLACARDS, MARKINGS, AND MANUALS

NORMAL CATEGORY
 MAXIMUM DESIGN WEIGHT2400 LBS
 DESIGN MANEUVERING SPEED V_A 113 KNOTS CAS
 FLIGHT LOAD FACTORS FLAPS UP +3.8 -1.52 FLAPS DOWN +3.5
 NO ACROBATIC MANEUVERS, INCLUDING SPINS, APPROVED.

UTILITY CATEGORY
 MAXIMUM DESIGN WEIGHT2050 LBS
 DESIGN MANEUVERING SPEED V_A 113 KNOTS CAS
 FLIGHT LOAD FACTORS FLAPS UP +4.4 -1.76 FLAPS DOWN +3.5
 REAR SEAT MUST NOT BE OCCUPIED.

ACROBATIC MANEUVERS LIMITED TO THE FOLLOWING

MANEUVER	ENTRY SPEED - CAS
CHANDELLES	113 KNOTS
LAZY EIGHTS	113 KNOTS
STEEP TURNS	113 KNOTS
STALLS (EXCEPT WHIP STALLS)	SLOW DECELERATION
SPINS PROHIBITED.	

MAXIMUM ALTITUDE LOSS IN STALL 350 FEET
 DEMONSTRATED CROSSWIND VELOCITY 16 KNOTS

THIS AIRPLANE NOT APPROVED FOR FLIGHT IN ICING CONDITIONS.

THIS AIRPLANE IS CERTIFIED FOR FOR THE FOLLOWING OPERATIONS: IFR, VFR, DAY, NIGHT, WHEN PROPERLY EQUIPPED PER FAR 91. REFER TO WEIGHT AND BALANCE DATA FOR LOADING INSTRUCTIONS. READ FUEL GAUGES IN LEVEL FLIGHT ONLY. FOR NORMAL OPERATION - MAINTAIN FUEL BALANCE.

AA5B-0400 and Subsequent

Located inside canopy rail, left side

↑ 130 MPH MAX WITH CANOPY OPEN TO HERE
 NO FLIGHT WITH CANOPY OPEN BEYOND THIS POINT

AA5-0001 thru 0834
 AA5A-0001 thru 0282
 AA5B-0001 thru 0399

↑ 113 KNOTS MAX WITH CANOPY OPEN TO HERE
 NO FLIGHT WITH CANOPY OPEN BEYOND THIS POINT

AA5A-0283 and Subsequent
 AA5B-0400 and Subsequent

Located on lower left side of instrument panel.

CHECK LIST
TAKE-OFF
1. FUEL - FULLEST TANK
2. MIXTURE - FULL RICH
3. AUX. PUMP - ON
4. INSTRUMENTS - SET & CHECK
5. TRIM - SET
6. FLAPS - UP
7. THROTTLE - FULL
8. RAISE NOSE - 55 KNOTS
LANDING
1. FUEL - FULLEST TANK
2. MIXTURE - FULL RICH
3. AUX. PUMP - ON
4. CARB. HEAT - AS REQUIRED
5. FLAPS - AS REQUIRED
6. APPROACH - 70 KNOTS

AA-5A and AA-5B

Interior Placards
 Figure 2 (Sheet 3 of 9)

**AA-5 SERIES
MAINTENANCE MANUAL**

Located at static air control

**CLOSE CANOPY WHEN USING ALTERNATE STATIC AIR
SUBTRACT 7 MPH FROM IAS ABOVE 100 MPH IAS
SUBTRACT 80 FEET FROM ALT ABOVE 100 MPH**

**AA5A-0001 thru 0282
AA5B-0111 thru 0399**

**CLOSE CANOPY WHEN USING ALTERNATE STATIC AIR
SUBTRACT 6 KNOTS FROM IAS ABOVE 87 KNOTS IAS
SUBTRACT 80 FEET FROM ALTITUDE ABOVE 86 KNOTS**

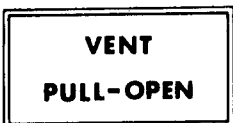
**AA5A-0283 and Subsequent
AA5B-0400 and Subsequent**

Located at static air control



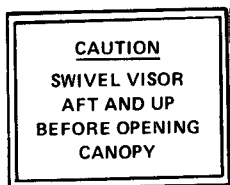
**AA5A-0001 and Subsequent
AA5B-0111 and subsequent**

Located beneath instrument panel at cabin walls



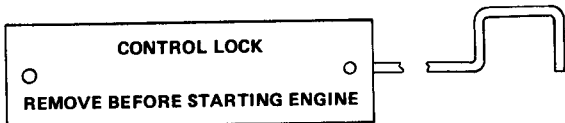
AA-5, AA-5A and AA-5B

Located adjacent to sun visor (if installed)



**AA5A-0001 and Subsequent
AA5B-0111 and Subsequent**

On control gust lock



**Interior Placards
Figure 2 (Sheet 4 of 9)**

Located in glove compartment

TIRE PRESSURE
NOSE 21 LBS.
MAIN 24 LBS.

AA5-0001 thru 0834
AA5A-0001 and Subsequent

TIRE PRESSURE
NOSE 25 LBS.
MAIN 35 LBS.

AA5B-0001 and Subsequent

Located in baggage compartment

120 POUNDS MAXIMUM BAGGAGE
FOR ADDITIONAL LOADING
INSTRUCTIONS SEE WEIGHT AND
BALANCE DATA

AA5-0001 thru 0405

120 POUNDS MAXIMUM BAGGAGE
FOR ADDITIONAL LOADING
INSTRUCTIONS SEE WEIGHT AND
BALANCE DATA
NO HEAVY OBJECTS ON HAT SHELF

AA5-0406 thru 0834
AA5A-0001 and Subsequent
AA5B-0001 and Subsequent

NO STEP
BEFORE FLIGHT
SEAT BACK MUST BE
TURNED DOWN TO COVER
THIS AREA

AA5-0001 thru 0834
AA5A-0001 and Subsequent
AA5B-0001 and Subsequent

NO PASSENGERS
340 POUNDS MAXIMUM CARGO
DISTRIBUTE EVENLY
FOR ADDITIONAL LOADING
INSTRUCTIONS SEE WEIGHT AND
BALANCE DATA
AND OWNERS MANUAL

AA5-0001 thru 0834
AA5A-0001 thru 0282
AA5B-0001 thru 0399

NO PASSENGERS
340 POUNDS MAXIMUM CARGO
DISTRIBUTE EVENLY
FOR ADDITIONAL LOADING
INSTRUCTIONS SEE WEIGHT AND
BALANCE DATA AND PILOTS
OPERATING HAND BOOK

AA5A-0282 and Subsequent
AA5B-0400 and Subsequent

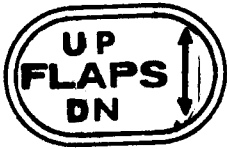
TO OPEN DOORS FROM INSIDE →
SLIDE HANDLE FORWARD

AA5-0406 thru 0834
AA5A-0001 and Subsequent
AA5B-0001 and Subsequent

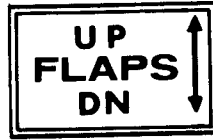
Interior Placards
Figure 2 (Sheet 5 of 9)

**AA-5 SERIES
MAINTENANCE MANUAL**

Located adjacent to flap control (flap switch)

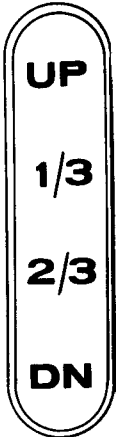


AA5-0001 thru 0834

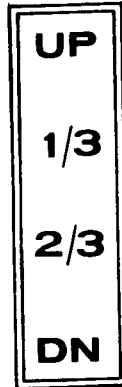


AA5A-0001 and Subsequent
AA5B-0001 and Subsequent

Located adjacent to flap control



AA5-0001 thru 0834

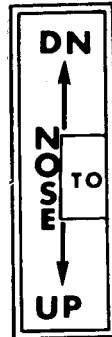


AA5A-0001 and Subsequent
AA5B-0001 and Subsequent

Located adjacent to trim wheel



AA5-0001 thru 0834

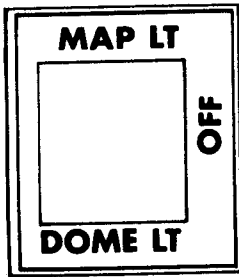


AA5A-0001 and Subsequent
AA5B-0001 and Subsequent

Interior Placards
Figure 2 (Sheet 6 of 9)

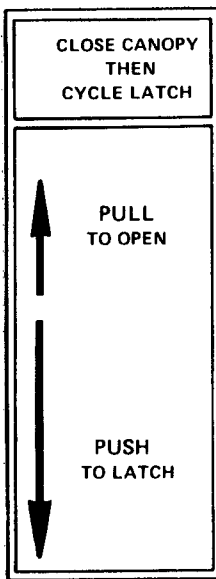
**AA-5 SERIES
MAINTENANCE MANUAL**

Located on forward corner railing adjacent to instrument panel



AA5-0001 thru 0834
AA5A-0001 and Subsequent
AA5B-0001 and Subsequent

Located adjacent to canopy latch



AA5-0001 thru 0834
AA5A-0001 and Subsequent
AA5B-0001 and Subsequent

Located adjacent to canopy latch



AA5-0001 thru 0834
AA5A-0001 and Subsequent
AA5B-0001 and Subsequent

Located on instrument panel shield



Interior Placards
Figure 2 (Sheet 7 of 9)

**AA-5 SERIES
MAINTENANCE MANUAL**

Located on instrument panel

N1448L

AA5-0001 thru 0834
AA5A-0001 thru 0522
AA5B-0001 thru 0692

GRUMMAN AMERICAN
N1448L

AA5A-0523 and Subsequent
AA5B-0693 and Subsequent

Located on instrument panel

FOR FLIGHT WITH REAR SEAT
OCCUPANTS AND/OR BAGGAGE
CARGO, CHECK WEIGHT & BALANCE.

AA5-0001 thru 0834
AA5A-0001 and Subsequent
AA5B-0001 and Subsequent

Located on instrument panel

AVOID CONTINUOUS OPERATION BETWEEN
1850 & 2250 RPM WHILE DESCENDING

AA5B-0001 and Subsequent

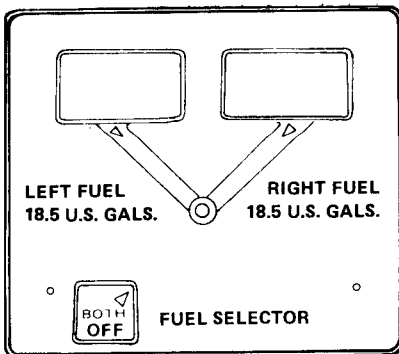
Located on instrument panel (depending on system installed)

CAUTION: FLASHING BEACON IN CLOUDS
MAY CAUSE VISUAL DISORIENTATION.

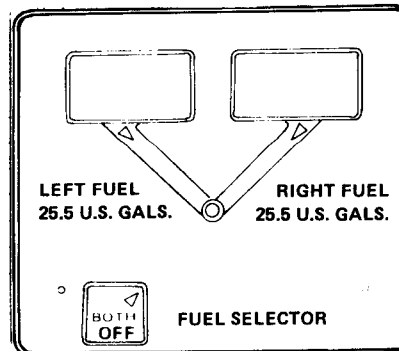
AA-5
AA-5A
AA-5B

TURN OFF STROBE IN CLOUD, FOG
OR HAZE, TAXI WITH STROBE OFF.

Located on fuel selector panel



AA5-0001 thru 0834
AA-5A (with standard tanks)



AA-5A (with long-range tanks)
AA5B-0001 and Subsequent

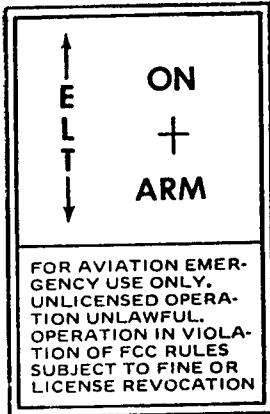
**AA-5 SERIES
MAINTENANCE MANUAL**

Located on interior of canopy adjacent to lock



AA5A-0456 and Subsequent
AA5B-0594 and Subsequent

Located near center of instrument panel. (If remote switch installed.)



AA5-0525 thru 0834 (if installed)
AA5A-0001 and Subsequent
AA5B-0001 and Subsequent

Interior Placards
Figure 2 (Sheet 9 of 9)