

OPERATING LIMITATIONS

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INTRODUCTION

Section 2 includes operating limitations, instrument markings, and basic placards necessary for the safe operation of the airplane, its engine, standard systems and standard equipment. The limitations included in this section and in Section 9 have been approved by the Federal Aviation Administration. Observance of these operating limitations is required by Federal Aviation Regulations.

NOTE

- Refer to Supplements, Section 9 of this Pilot's Operating Handbook for amended operating limitations, operating procedures, performance data and other necessary information for airplanes equipped with specific options.
- The airspeeds listed in Figure 2-1, Airspeed Limitations, and Figure 2-2, Airspeed Indicator Markings, are based on Airspeed Calibration data shown in Section 5 with the normal static source. If the alternate static source is being used, ample margins should be observed to allow for the airspeed calibration variations between the normal and alternate static sources as shown in Section 5.

The Cessna Model No. 182T is certificated under FAA Type Certificate No. 3A13.

AIRSPEED LIMITATIONS

Airspeed limitations and their operational significance are shown in Figure 2-1.

AIRSPEED LIMITATIONS

SYMBOL	SPEED	KCAS	KIAS	REMARKS
V _{NE}	Never Exceed Speed	171	175	Do not exceed this speed in any operation.
V _{NO}	Maximum Structural Cruising Speed	136	140	Do not exceed this speed except in smooth air, and then only with caution.
V _A	Maneuvering Speed: 3100 Pounds 2600 Pounds 2100 Pounds	108 100 91	110 101 91	Do not make full or abrupt control movements above this speed.
V _{FE}	Maximum Flap Extended Speed: FLAPS UP to 10° FLAPS 10° to 20° FLAPS 20° to FULL°	136 117 99	140 120 100	Do not exceed this speed with flaps down.
-----	Maximum Window Open Speed	171	175	Do not exceed this speed with windows open.

Figure 2-1

AIRSPPEED INDICATOR MARKINGS

Airspeed indicator markings and their color code significance are shown in Figure 2-2.

AIRSPPEED INDICATOR MARKINGS

MARKING	KIAS VALUE OR RANGE	SIGNIFICANCE
Red Arc*	20 - 41	Low airspeed warning.
White Arc	41 - 100	Full Flap Operating Range. Lower limit is maximum weight V_{SO} in landing configuration. Upper limit is maximum speed permissible with flaps extended.
Green Arc	51 - 140	Normal Operating Range. Lower limit is maximum weight V_S at most forward C.G. with flaps retracted. Upper limit is maximum structural cruising speed.
Yellow Arc	140 - 175	Operations must be conducted with caution and only in smooth air.
Red Line	175	Maximum speed for all operations.

*G1000 airspeed indicator only.

Figure 2-2

POWERPLANT LIMITATIONS

Engine Manufacturer: Textron Lycoming

Engine Model Number: IO-540-AB1A5

Engine Operating Limits for Takeoff and Continuous Operations:

Maximum Continuous Power: 230 rated BHP at 2400 RPM

Maximum Cylinder Head Temperature: 500°F (260°C)

Maximum Oil Temperature: 245°F (118°C)

Oil Pressure, Minimum: 20 PSI

Oil Pressure, Maximum: 115 PSI

CAUTION

ENGINE OPERATION WITH INDICATED OIL PRESSURE BELOW THE GREEN BAND RANGE WHILE IN CRUISE OR CLIMB CONFIGURATION IS CONSIDERED ABNORMAL AND SHOULD BE INSPECTED BY QUALIFIED MAINTENANCE PERSONNEL BEFORE NEXT FLIGHT.

Fuel Grade: Refer to Fuel Limitations

Oil Grade (Specification):

MIL-L-6082 or SAE J1966 Aviation Grade Straight Mineral Oil or MIL-L-22851 or SAE J1899 Ashless Dispersant Oil. Oil must comply with the latest revision and/or supplement for Textron Lycoming Service Instruction No. 1014, **must be used.**

Propeller Manufacturer: McCauley Propeller Systems

Propeller Model Number: B3D36C431/80VSA-1

Propeller Diameter:

Maximum 79.0 INCHES

Minimum 77.5 INCHES

POWERPLANT INSTRUMENT MARKINGS

Powerplant instrument markings and their color code significance are shown in Figure 2-3. Operation with indications in the red range is prohibited. Avoid operating with indicators in the yellow range.

POWERPLANT INSTRUMENT MARKINGS

INSTRUMENT	RED LINE (MIN)	RED ARC (LWR)	YELLOW ARC	GREEN ARC (NORMAL OPERATING RANGE)	RED ARC (UPR)	RED LINE (MAX)
Tachometer	---	---	---	2000 to 2400 RPM	2400* to 2700 RPM	---
Manifold Pressure	---	---	---	15 to 23 in.hg.	---	---
Cylinder Head Temperature	---	---	---	200 to 500°F	---	500°F
Oil Temperature	---	---	---	100 to 245°F	245* to 250°F	---
Oil Pressure	---	0 to 20 PSI	---	50 to 90 PSI	115* to 120 PSI	---
Fuel Quantity	0 (2.5 Gallons Unusable Each Tank)	---	0 to 8 Gallons	8 to 35 Gallons	---	---
Fuel Flow	---	---	---	0 to 18 GPH 24 GPH	---	---
Vacuum Gage	---	---	---	4.5 to 5.5 in.hg.	---	---

*Maximum operating limit is lower end of red arc.

Figure 2-3

WEIGHT LIMITS

Maximum Ramp Weight:	3110 POUNDS
Maximum Takeoff Weight:	3100 POUNDS
Maximum Landing Weight:	2950 POUNDS

Maximum Weight in Baggage Compartment:

Baggage Area A - Station 82 to 109:	120 POUNDS
.....	Refer to note below.
Baggage Area B - Station 109 to 124:	80 POUNDS
.....	Refer to note below.
Baggage Area C - Station 124 to 134:	80 POUNDS
.....	Refer to note below.

NOTE

The maximum allowable combined weight capacity for baggage in areas A, B and C is 200 pounds. The maximum combined allowable weight capacity for baggage in areas B and C is 80 pounds.

CENTER OF GRAVITY LIMITS

Center of Gravity Range:

Forward: 33.0 inches aft of datum at 2250 pounds or less, with straight line variation to 35.5 inches aft of datum at 2700 pounds or less, with straight line variation to 40.9 inches aft of datum at 3100 pounds, continuing to aft limit at 3100 pounds.

Aft: 46.0 inches aft of datum at all weights.

Reference Datum: Front face of firewall

MANEUVER LIMITS

This airplane is certificated in the normal category. The normal category is applicable to aircraft intended for non aerobatic operations. These include any maneuvers incidental to normal flying, stalls (except whip stalls), lazy eights, chandelles, and turns in which the angle of bank is not more than 60°.

Aerobatic maneuvers, including spins, are not approved.

FLIGHT LOAD FACTOR LIMITS

Flight Load Factors (Maximum Takeoff Weight - 3100 POUNDS):

*Flaps UP:.....	+3.8g, -1.52g
*Flaps FULL:.....	+2.0g

- * The design load factors are 150% of the above, and in all cases, the structure meets or exceeds design loads.

KINDS OF OPERATIONS LIMITS

The Cessna 182T Nav III airplane is approved for day and night, VFR and IFR operations. Flight into known icing conditions is prohibited.

The minimum equipment for approved operations required under the Operating Rules are defined by 14 CFR 91 and 14 CFR 135, as applicable.

The following Kinds of Operations Equipment List (KOEL) identifies the equipment required to be operational for airplane airworthiness in the listed kind of operations.

KINDS OF OPERATIONS EQUIPMENT LIST

System, Instrument, Equipment and/or Function	KIND OF OPERATION				COMMENTS
	VFR DAY	VFR NIGHT	IFR DAY	IFR NIGHT	
PLACARDS AND MARKINGS					
182T Nav III - GFC 700 AFCS POH/AFM	1	1	1	1	Accessible to pilot in flight.
Garmin G1000 Cockpit Reference Guide	1	1	1	1	Accessible to pilot in flight.
AIR CONDITIONING					
1 - Forward Avionics Fan	1	1	1	1	
2 - PFD Fan	0	0	0	0	
3 - MFD Fan	0	0	0	0	
4 - Aft Avionics Fan	1	1	1	1	
COMMUNICATIONS					
1 - VHF COM	0	0	1	1	
ELECTRICAL POWER					
1 - 24V Main Battery	1	1	1	1	
2 - 28V Alternator	1	1	1	1	
3 - 24V Standby Battery	0	*	*	*	* Refer to Note 1.
4 - Main Ammeter	1	1	1	1	
5 - Standby Ammeter	0	*	*	*	* Refer to Note 1.

NOTE

1. The European Aviation Safety Agency (EASA) requires the 24V Standby Battery and Standby Ammeter to successfully complete the pre-flight check before operating the airplane in VFR night, IFR day, or IFR night conditions in Europe. Correct operation of the 24V Standby Battery and Standby Ammeter is recommended for all other operations.

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KINDS OF OPERATIONS EQUIPMENT LIST (Continued)

System, Instrument, Equipment and/or Function	KIND OF OPERATION				COMMENTS
	V F R D A Y	V F R N I G H T	I F R D A Y	I F R N I G H T	
EQUIPMENT AND FURNISHINGS					
1 - Seat Belt Assembly	1	1	1	1	Each Seat Occupant
2 - Shoulder Harness	1	1	1	1	Front Seat Occupants
FLIGHT CONTROLS					
1 - Flap Position Indicator	1	1	1	1	
2 - Flap Motor	1	1	1	1	
3 - Elevator Trim System	1	1	1	1	
4 - Elevator Trim Indicator	1	1	1	1	
5 - Rudder Trim System	1	1	1	1	
6 - Rudder Trim Indicator	1	1	1	1	
FUEL SYSTEM					
1 - Electric Fuel Pump	1	1	1	1	
2 - Fuel Quantity Indicator - L Tank	1	1	1	1	
3 - Fuel Quantity Indicator - R Tank	1	1	1	1	
ICE AND RAIN PROTECTION					
1 - Alternate Static Air Source	0	0	1	1	
2 - Alternate Induction Air System	0	0	1	1	
INDICATING/RECORDING SYSTEM					
1 - Stall Warning System	1	1	1	1	
2 - System Annunciator and Warning Displays	1	1	1	1	
LANDING GEAR					
1 - Wheel Fairings	0	0	0	0	Removable

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KINDS OF OPERATIONS EQUIPMENT LIST (Continued)

System, Instrument, Equipment and/or Function	KIND OF OPERATION				COMMENTS
	V F R D A Y	V F R N I G H T	I F R D A Y	I F R N I G H T	
LIGHTING					
1 - PFD Bezel Lighting	0	0	0	1	
2 - PFD Backlighting	*	1	1	1	*Refer to Note 2.
3 - MFD Bezel Lighting	0	0	0	1	
4 - MFD Backlighting	*	1	1	1	*Refer to Note 3.
5 - Switch and Circuit Breaker Panel Lighting	0	1	0	1	
6 - Standby Airspeed Indicator Internal Lighting	0	1	0	1	
7 - Standby Altimeter Internal Lighting	0	1	0	1	
8 - Non-stabilized Magnetic Compass Internal Lighting	0	1	0	1	
9 - Standby Attitude Indicator Internal Lighting	0	1	0	1	
10 - Cockpit Flood Light	0	1	0	1	
11 - Aircraft Position (NAV) Lights	0	1	1	1	
12 - STROBE Light System	1	1	1	1	
13 - BEACON Light	0	0	0	0	
14 - TAXI Light	0	0	0	0	
15 - LAND (Landing) Light	0	1	0	1	Operations for hire only

NOTE

2. PFD backlighting is required for day VFR flight if MFD backlighting has failed. Display backup mode must be active so engine indicators are shown.
3. MFD backlighting is required for day VFR flight if PFD backlighting has failed. Display backup mode must be active so flight instruments are shown.

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KINDS OF OPERATIONS EQUIPMENT LIST (Continued)

System, Instrument, Equipment and/or Function	KIND OF OPERATION				COMMENTS
	V F R D A Y	V F R N I G H T	I F R D A Y	I F R N I G H T	
NAVIGATION AND PITOT-STATIC SYSTEM					
1 - G1000 Airspeed Indicator	1	1	1	1	
2 - Standby Airspeed Indicator	0	0	1	1	
3 - G1000 Altimeter	1	1	1	1	
4 - Standby Altimeter	0	0	1	1	
5 - G1000 Vertical Speed Indicator	0	0	0	0	
6 - G1000 Altitude Indicator	0	0	1	1	
7 - Standby Attitude Indicator	0	0	1	1	
8 - G1000 Directional Indicator (HSI)	0	0	1	1	
9 - G1000 Turn Coordinator	0	0	1	1	
10 - Non-stabilized Magnetic Compass	1	1	1	1	
11 - VHF Navigation Radio (VOR/LOC/GS)	0	0	A/R	A/R	As Required Per Procedure.
12 - GPS Receiver/Navigator	0	0	A/R	A/R	As Required Per Procedure.
13 - Marker Beacon Receiver	0	0	A/R	A/R	As Required Per Procedure.
14 - Blind Altitude Encoder	A/R	A/R	1	1	As Required Per Regulations.
15 - Clock	0	0	1	1	
16 - GFC 700 AFCS	0	0	0	0	

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KINDS OF OPERATIONS EQUIPMENT LIST (Continued)

System, Instrument, Equipment and/or Function	KIND OF OPERATION				COMMENTS
	V F R D A Y	V F R N I G H T	I F R D A Y	I F R N I G H T	
VACUUM					
1 - Engine Driven Vacuum Pump	0	0	1	1	
2 - Vacuum Indicator	0	0	1	1	
ENGINE FUEL AND CONTROL					
1 - Manifold Pressure Indicator	1	1	1	1	
2 - Fuel Flow Indicator	1	1	1	1	
ENGINE INDICATING					
1 - Tachometer (RPM)	1	1	1	1	Cylinder #3
2 - Cylinder Head Temperature (CHT) Indicator	1	1	1	1	
3 - Oil Pressure Indicator	1	1	1	1	
4 - Oil Temperature Indicator	1	1	1	1	
ENGINE OIL					
1 - Engine Crankcase Dipstick	1	1	1	1	

FUEL LIMITATIONS

Total Fuel: 92.0 U.S. Gallons (46.0 gallons per tank)
Usable Fuel: 87.0 U.S. Gallons (43.5 gallons per tank)
Unusable Fuel: 5.0 U.S. Gallons (2.5 gallons per tank)

NOTE

To ensure maximum fuel capacity and minimize crossfeeding when refueling, always park the airplane in a wings level, normal ground attitude and place the fuel selector in the LEFT or RIGHT position. Refer to Figure 1-1 for normal ground attitude definition.

Takeoff and land with the fuel selector valve handle in the BOTH position.

Maximum slip or skid duration with one tank dry: 30 seconds

Operation on either LEFT or RIGHT tank limited to level flight only.

With 1/4 tank or less, prolonged uncoordinated flight is prohibited when operating on either left or right tank.

Fuel remaining in the tank after the fuel quantity indicator reads 0 (red line) cannot be safely used in flight.

Approved Fuel Grades (and Colors):

- 100LL Grade Aviation Fuel (Blue)
- 100 Grade Aviation Fuel (Green)

FLAP LIMITATIONS

Approved Takeoff Range:UP to 20°
Approved Landing Range:UP to FULL

SYSTEM LIMITATIONS

AUX AUDIO SYSTEM

Use of the AUX AUDIO IN entertainment input is prohibited during takeoff and landing.

Use of the AUX AUDIO IN entertainment audio input and portable electronic devices (PED), such as cellular telephones, games, cassette, CD or MP3 players, is prohibited under IFR unless the operator of the airplane has determined that the use of the Aux Audio System and the connected portable electronic device(s) will not cause interference with the navigation or communication system of the airplane.

12V POWER SYSTEM

The 12 Volt Power System (POWER OUTLET 12V - 10A) is not certified for supplying power to flight-critical communications or navigation devices.

Use of the 12 Volt Power System is prohibited during takeoff and landing.

Use of the 12 Volt Power System is prohibited under IFR unless the operator of the airplane has determined that the use of the 12 VDC power supply and connected portable electronic device(s) will not cause interference with the navigation or communication systems of the airplane.

G1000 LIMITATIONS

The current Garmin G1000 Cockpit Reference Guide (CRG) Part Number and System Software Version that must be available to the pilot during flight are displayed on the MFD AUX group, SYSTEM STATUS page.

GPS based IFR enroute, oceanic and terminal navigation is prohibited unless the pilot verifies the currency of the database or verifies each selected waypoint for accuracy by reference to current approved data.

RNAV/GPS instrument approaches must be accomplished in accordance with approved instrument approach procedures that are retrieved from the G1000 navigation database. The G1000 database must incorporate the current update cycle.

Use of the NAVIGATION MAP page for pilotage navigation is prohibited. The Navigation Map is intended only to enhance situational awareness. Navigation is to be conducted using only current charts, data and authorized navigation facilities.

Use of the TRAFFIC MAP to maneuver the airplane to avoid traffic is prohibited. The Traffic Information System (TIS) is intended for advisory use only. TIS is intended only to help the pilot to visually locate traffic. It is the responsibility of the pilot to see and maneuver to avoid traffic.

Use of the TERRAIN PROXIMITY information for primary terrain avoidance is prohibited. The Terrain Proximity map is intended only to enhance situational awareness. It is the pilot's responsibility to provide terrain clearance at all times.

Navigation using the G1000 is not authorized north of 70° North latitude or south of 70° South latitude due to unsuitability of the magnetic fields near the Earth's poles. In addition, operations are not authorized in the following two regions:

1. North of 65° North latitude between longitude 75° W and 120° W (Northern Canada).
2. South of 55° South latitude between longitude 120° E and 165° E (region south of Australia and New Zealand).

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G1000 LIMITATIONS (Continued)

The COM 1/2 (split COM) function of the Audio Panel is not approved for use. During COM 1/2 operation, transmission by one crew member inhibits reception by the other crew member.

The fuel quantity, fuel used and fuel remaining functions of the G1000 are supplemental information only and must be verified by the pilot.

GPS - WAAS (Serials 18281869 and 18281876 thru 18282021 and 18282023 thru 18282045 not incorporating SB08-34-01)

Use of the Garmin G1000 system for GPS or WAAS navigation under Instrument Flight Rules (IFR) requires that:

1. The airplane must be equipped with an approved and operational alternate means of navigation appropriate to the route being flown (NAV receiver, DME or ADF).
2. For flight planning purposes, if an alternate airport is required, it must have an approved instrument approach procedure, other than GPS or RNAV, that is anticipated to be operational and available at the estimated time of arrival. All equipment required for this procedure must be installed and operational.
3. For procedures requiring a prediction of GPS Receiver Autonomous Integrity Monitoring (RAIM) capability for TSO-C129a (non-WAAS) equipment (e.g. oceanic operations, U.S. RNAV routes, European BRNAV and PRNAV, etc.), the Garmin WAAS Fault Detection/Exclusion Prediction program (006-A0154-01 or later approved version) should be used to confirm the availability of RAIM for the intended route and time of flight. Generic prediction tools do not provide an accurate indication of RAIM availability for the Garmin G1000 system.
4. When flight planning an LNAV/VNAV or LPV approach, the Garmin WAAS Fault Detection/Exclusion Prediction program (006-A0154-01 or later approved version) should be used in addition to any NOTAMs issued from the approach.

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G1000 LIMITATIONS (Continued)

GARMIN GFC 700 AFCS

1. The GFC 700 AFCS preflight test must be successfully completed prior to use of the autopilot, flight director or manual electric trim.
2. A pilot, with the seat belt fastened, must occupy the left pilot's seat during all autopilot operations.
3. The autopilot must be off during all takeoff and landings.
4. Autopilot maximum engagement speed - 165 KIAS.
Autopilot minimum engagement speed - 70 KIAS.
Electric Trim maximum operating speed - 175 KIAS.
5. Maximum fuel imbalance with autopilot engaged - 90 pounds.
6. The autopilot must be disengaged below 200 feet AGL during approach operations and below 800 feet AGL during all other operations.
7. ILS approaches using the autopilot/flight director are limited to Category I approaches only.
8. Use of the autopilot is prohibited when the audio panel is inoperative (since the aural alert will not be provided when autopilot is disengaged).
9. Use of the autopilot is prohibited when conducting missed approach procedures until an established rate of climb that ensures all altitude requirements of the procedure will be met.

L3 COMMUNICATIONS WX 500 STORMSCOPE

Use of the WEATHER MAP (WX-500 Stormscope) for hazardous weather (thunderstorm) penetration is prohibited. LTNG information on the NAVIGATION MAP or WEATHER MAP is approved only as an aid to hazardous weather avoidance, not penetration.

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G1000 LIMITATIONS (Continued)

TRAFFIC ADVISORY SYSTEM (TAS)

Use of the TRAFFIC MAP to maneuver the airplane to avoid traffic is prohibited. The Traffic Advisory System (TAS) is intended for advisory use only. TAS is intended only to help the pilot to visually locate traffic. It is the responsibility of the pilot to see and maneuver to avoid traffic.

TERRAIN AWARENESS AND WARNING SYSTEM (TAWS-B)

Use of the Terrain Awareness and Warning System (TAWS-B) to navigate to avoid terrain or obstacles is prohibited. TAWS-B is only approved as an aid to help the pilot to see-and-avoid terrain or obstacles.

TAWS-B must be inhibited when landing at a location not included in the airport database.

Use of TAWS-B is prohibited when operating using the QFE altimeter setting (altimeter indicates 0 feet altitude when the airplane is on the runway).

The pilot is authorized to deviate from the current ATC clearance only to the extent necessary to comply with TAWS-B warnings.

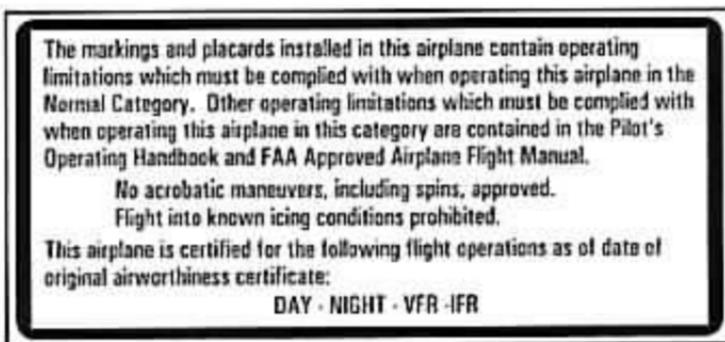
The geographic area of the TAWS-B database must match the geographic area in which the airplane is being operated.

PLACARDS

The following information must be displayed in the form of composite or individual placards.

1. In full view of the pilot: (The "DAY-NIGHT-VFR-IFR" entry, shown on the example below, will vary with installed equipment).

00142



2. On control lock:

00143

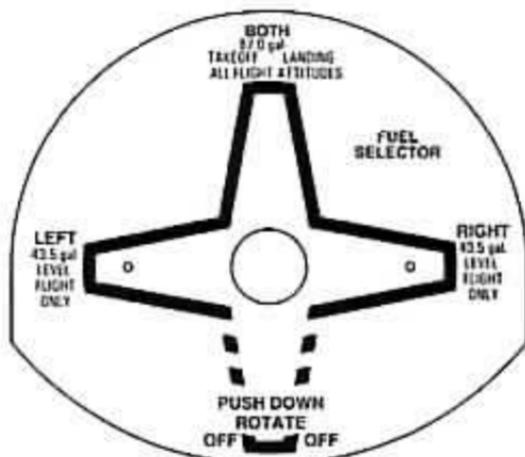


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PLACARDS (Continued)

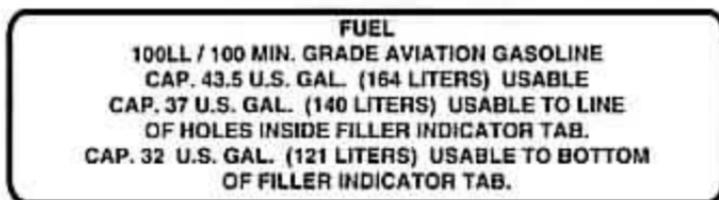
3. On the fuel selector valve:

80144



4. Near both fuel tank filler cap:

80145



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PLACARDS (Continued)

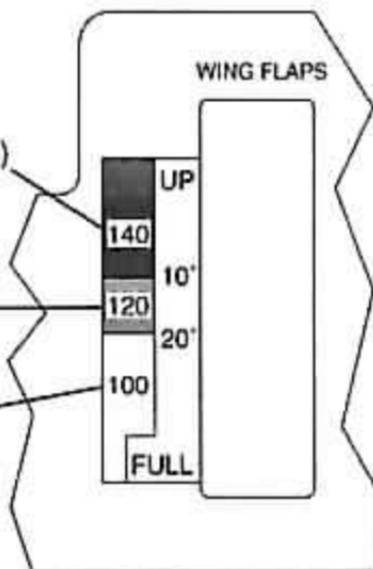
5. On flap control indicator:

60146

UP to 10° 140 KIAS
(Initial flap range with Dark Blue color code; mechanical detent at 10° position)

10° to 20° 120 KIAS
(Intermediate flap range with Light Blue color code; mechanical detent at 20° position)

20° to FULL 100 KIAS
(Full flap range with White color code; mechanical stop at FULL position)



6. In baggage compartment:

60147

**120 POUNDS MAXIMUM
BAGGAGE FWD OF BAGGAGE DOOR LATCH
AND 80 POUNDS MAXIMUM
BAGGAGE AFT OF BAGGAGE DOOR LATCH
MAXIMUM 200 POUNDS COMBINED**

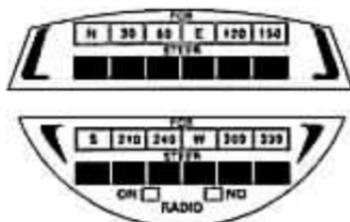
**FOR ADDITIONAL LOADING INSTRUCTIONS
SEE WEIGHT AND BALANCE DATA**

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PLACARDS (Continued)

7. A calibration card must be provided to indicate the accuracy of the magnetic compass in 30° increments.

60148



8. Molded on the oil filler cap/dipstick:

60149



9. Silk-screened on the instrument panel directly above the PFD:

60150

MANEUVERING SPEED: 110 KIAS

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PLACARDS (Continued)

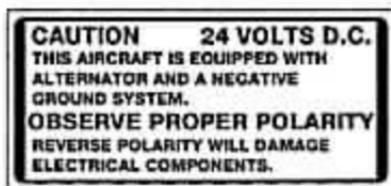
10. Silk-screened on the upper right instrument panel:

BE151

SMOKING PROHIBITED

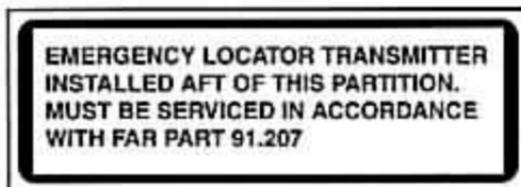
11. On auxiliary power plug door and second placard on battery box:

DE152



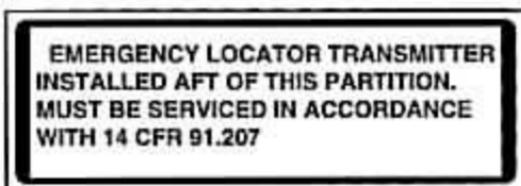
12. On the upper right side of the aft cabin partition:

DE153



or

DE154



PLACARDS (Continued)

13. On the center overhead flood light control switch:

US154

