

CHECKLIST PIPER WARRIOR N31669



Fort Meade Flight Activity, Inc.

7509 General Aviation Drive, Fort Meade, MD 20755
(410) 672-0080



DO NOT REMOVE FROM AIRCRAFT

EMERGENCY CONTACT NUMBERS

Sue Hall (443) 690-2627 (cell)
Co-manager

Frank Turney (443) 499-1287 (cell)
Co-manager

Transponder Codes

7500 Hijacked
7600 Lost Communications
7700 Emergency

Draft

Recent Flight Plans | KFME TO PALEO 31669 | Save as Favorite

ICAO | Domestic

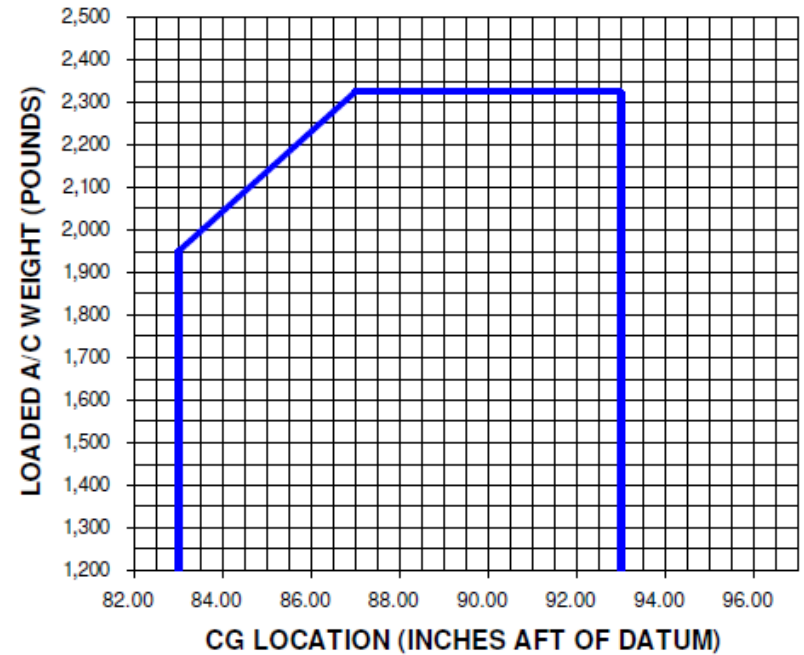
Notice: Per FAA Guidance, all civilian flight plans must be filed as ICAO flight plans.

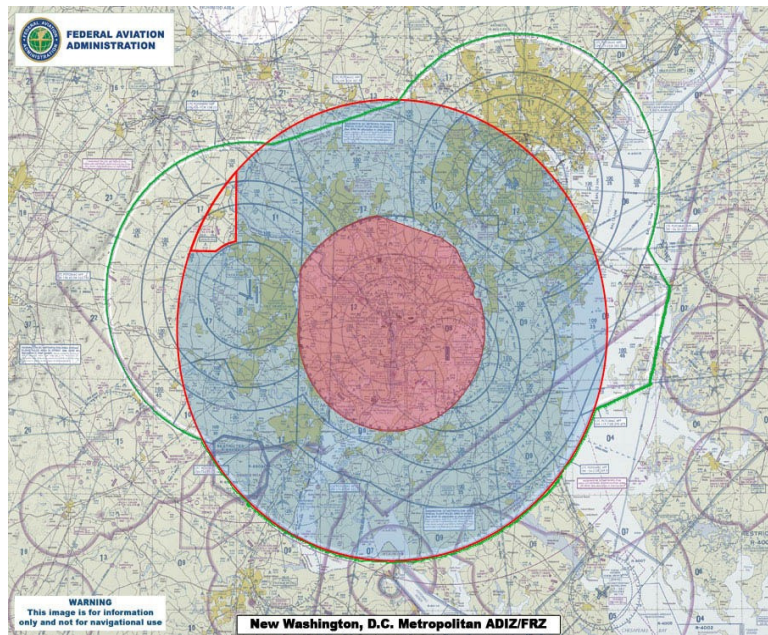
Aircraft ID N31669	Flight Rule IFR	Flight Type G	No. of Aircraft 1	Aircraft Type P28A	Wake Turbulence L	Aircraft Equipment SG
Departure KFME	Airport Info Area_Brief	Departure Date & Time 03/11/2020 HHMM UTC 1-120 Apply Minutes From Now	Evaluate Cruising Speed N0110	Level VFR/013	Optimize	Surveillance Equipment EB2
Route of Flight DCT						
Destination PALEO	Airport Info Area_Brief	Est Elapsed Time 0020	Other Information (Optional) RMK/DC SFRA			
Fuel Endurance 0400	Persons on Board 2	Aircraft Color & Markings (Optional) W:BK	Alternate 1 (Optional)	Airport Info Area_Brief	Alternate 2 (Optional)	Airport Info Area_Brief
Emergency Radios <input type="checkbox"/> UHF <input checked="" type="checkbox"/> VHF <input type="checkbox"/> ELBA	Survival Equipment <input type="checkbox"/> Polar <input type="checkbox"/> Desert <input type="checkbox"/> Maritime <input type="checkbox"/> Jungle	Jackets <input type="checkbox"/> Light <input type="checkbox"/> Fluorescent <input type="checkbox"/> UHF <input type="checkbox"/> VHF	Supplemental Remarks (Optional)		Pilot In Command (Optional)	
	Dinghies (Optional) Number Capacity Covered	Pilot Contact Information				

WEIGHT AND BALANCE

N31669	Weight	Arm	Moment
Basic Empty Wgt	1496.48	87.097	130339.60
Fuel (48 Gal max):		95.000	
Pilot		80.500	
Copilot		80.500	
Passenger 1		118.100	
Passenger 2		118.100	
Baggage		142.800	
Total			

Normal CG Envelope





Washington SFRA

ATC COMMUNICATIONS AND SQUAWK CODE REQUIRED

FSS: 1-800-WX-BRIEF (1-800-992-7433)
(SFRA flight plan & weather briefing)

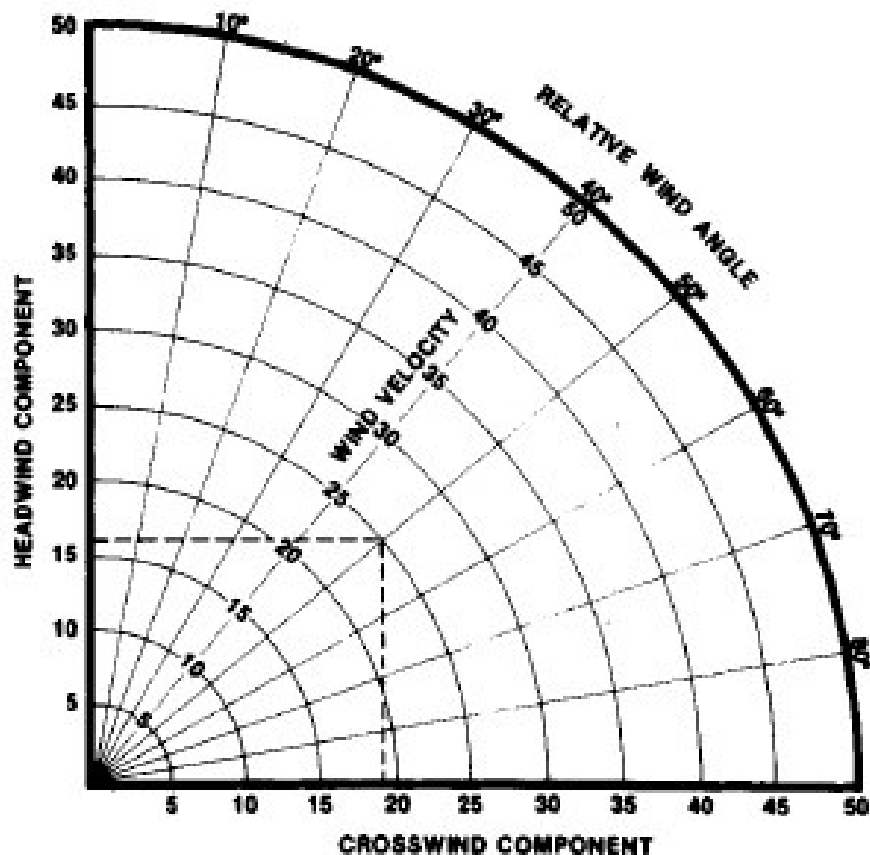
Potomac TRACON: 1-866-429-5882
(squawk code & frequency)

Potomac TRACON: 1-540-351-6129
(Close SFRA flight plan after pattern work.)

AIRSPEEDS FOR SAFE OPERATION (KIAS)

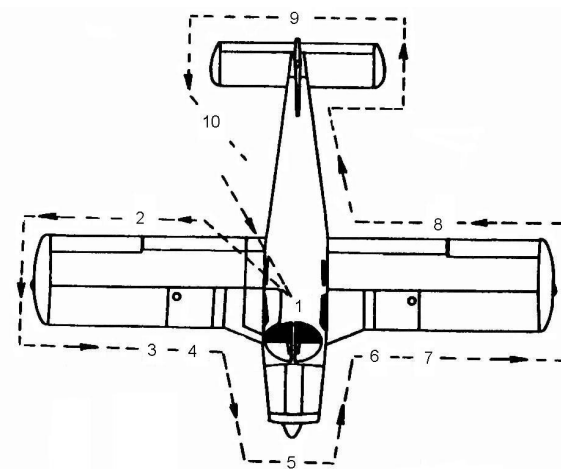
V_{SO}		44
V_{SI}		50
V_R		55
V_X		63
V_Y		79
V_F		103
V_A (MGW)		111
V_{NO}		126
V_{NE}		160
V_{ref}	(flaps up)	70
	(flaps down)	63
V_{Best Glide}		73
Max Demonstrated Crosswind		17

Crosswind Component Chart



Maximum demonstrated crosswind component 17 kt

PREFLIGHT INSPECTION



COCKPIT

- CoversREMOVED
- Ignition Key ON DASH
- Hobbs, Tach TimesNOTE
- Publications (AROW) CHECK
- Control LockREMOVED
- Primer IN/LOCKED
- Throttle CLOSED
- Mixture IDLE/CUTOFF
- Carburetor HeatOFF
- Avionics MasterOFF
- Battery Master Switch ON
- Electric Fuel Pump ON
- Fuel Pressure and Engine Gauges CHECK
- Fuel Gauges CHECK
- Electric Fuel PumpOFF
- Stall Warning Horn CHECK
- Lights CHECK
- Battery Master SwitchOFF
- Circuit Breakers CHECK

Rudder Trim NEUTRAL
Flaps EXTEND
Elevator Trim SET TAKEOFF

RIGHT WING

Flap and Aileron CHECK
Static Wicks..... CHECK
Wing Tip, Light and Leading Edge CHECK
Tiedown, Chocks REMOVE
Fuel Vent CLEAR
Fuel Sump DRAIN
Fuel Quantity CHECK
Wheel Strut (4.5"), Tire, Brakes CHECK

NOSE

Oil (6-7 QTS) CHECK
Engine Compartment CHECK
Cowling, Intakes, Spinner, Propeller CHECK
Nosewheel Strut (3.25"), Tire, Linkage CHECK
Landing Light CHECK
Chocks, Towbar, Plugs, Preheater REMOVED
Fuel Sump DRAIN
Windshield CHECK

LEFT WING

Wheel Strut, Tire, Brakes CHECK
Fuel Vent CLEAR
Fuel Sump DRAIN
Fuel Quantity CHECK
Tiedown, Chocks REMOVE
Pitot Tube and Static Port CHECK
Leading Edge, Wing Tip and Light CHECK
Aileron and Flap CHECK
Static Wicks CHECK

FUSELAGE

Skin Condition CHECK
Antennas CHECK

EMPENNAGE

Stabilator CHECK
Static Wicks CHECK
Anti-Servo Tab CHECK
Rudder CHECK
Lights CHECK
Tiedown REMOVED
Baggage Area SECURE
BEFORE ENGINE START

Doors and Windows SECURED
Seats, Belts, Harnesses SECURED
Fuel Selector FULLEST TANK
Flaps RETRACT
Brakes TEST AND SET
Carburetor Heat OFF
Primer AS REQUIRED
Throttle OPEN 1/8 INCH
Mixture RICH
Beacon ON
Keys IGNITION

Battery Master Switch ON
Propeller Area CLEAR
Review Type of Start Checklist COMPLETE

ENGINE START (COLD)

Prime 3-4 STROKES
Primer IN AND LOCKED
Throttle OPEN 1/8 INCH
Mixture RICH
Electric Fuel Pump ON

Starter ENGAGE

ENGINE START (HOT)

Note: Hot engine is very prone to flooding

Primer IN AND LOCKED
Throttle OPEN 1/8 INCH
Mixture RICH
Electric Fuel Pump OFF
Starter ENGAGE

ENGINE START (FLOODED)

Primer IN AND LOCKED
Throttle FULL OPEN
Mixture IDLE CUT-OFF
Electric Fuel Pump OFF
Starter ENGAGE
Mixture ADVANCE AS ENGINE FIRES
Throttle RETARD

BEFORE TAXI

Throttle 1000 RPM
Mixture LEAN FOR TAXI
Oil Pressure/Engine Gauges CHECK
Fuel Pressure CHECK
Alternator ON
Fuel Pump OFF
Lights AS REQUIRED
Avionics Master Switch ON
Transponder Code SET CODE/ALT
GPS/Radios PROGRAM/SET
Controls Position for Wind AS REQUIRED
Brakes TEST

ENGINE RUN-UP

Nosewheel CENTERED
Parking Brake SET
Mixture RICH
Throttle 2000 RPM
Engine Instruments CHECK
Magnetos CHECK (175 MAX DROP, 50 DIFF)
Primer IN/LOCKED
Mixture CHECK
Carburetor Heat CHECK
Ammeter CHECK
Circuit Breakers CHECK IN
Suction Gauge CHECK (4.8-5.2")
Annunciators TEST
Throttle IDLE THEN 1000 RPM
Flight Controls FREE/CORRECT
Flight Instruments CHECK/SET

BEFORE TAKEOFF

Doors and Windows CLOSED
Seats, Belts and Harnesses SECURE
Elevator Trim SET TAKEOFF
Mixture RICH
Throttle Friction Lock ADJUST
Electric Fuel Pump ON
Radios SET
Transponder Code/ALT VERIFIED
Lights AS REQUIRED
Emergency Briefing COMPLETE
Review Type of Takeoff COMPLETE

NORMAL TAKEOFF

Throttle FULL OPEN

Engine Instruments CHECK
Brakes RELEASE
Rotation Speed55 KIAS
Climb Speed (Vy)79 KIAS

SHORT FIELD TAKEOFF

BrakesSET
Flaps 25 DEGREES
Throttle FULL OPEN
Engine Instruments CHECK
Brakes RELEASE
Rotation Speed52 KIAS
Climb Speed Vx 63 then Vy 79 KIAS
FlapsRETRACT

SOFT FIELD TAKEOFF

Flaps 25 DEGREES
Elevator FULL NOSE UP
Throttle FULL OPEN
Engine Instruments CHECK
Liftoff Speed LOWEST POSSIBLE
Climb Speed Vx 63 KIAS until obstacles cleared
FlapsRETRACT
Climb Speed Vy 79 KIAS

CLIMB (1000 FEET)

Airspeed 79-87 KIAS
Wings CHECK
Lights AS REQUIRED
Electric Fuel PumpOFF
FlapsUP
Flight Plan (If Filed) ACTIVATE

CRUISE

Power AS REQUIRED
Trim SET LEVEL FLIGHT
Mixture LEAN (below 75% power)
Fuel SelectorAS REQUIRED*

* Change tanks 30 minutes after takeoff and every hour thereafter; turn electric fuel pump on prior to changing tanks.

DESCENT

Fuel Selector FULLEST TANK
Mixture ENRICH
ATIS/AWOS CHECK
AltimeterSET
Autopilot (If applicable) AS REQUIRED

BEFORE LANDING (GUMPSBL)

Electric Fuel Pump ON
Mixture RICH
Carburetor Heat AS REQUIRED
Seats, Belts, and Harnesses SECURE
Brakes TEST
Lights AS REQUIRED

NORMAL LANDING

Power AS REQUIRED
Flaps AS REQUIRED
Airspeed 70 KIAS CLEAN / 63 KIAS FLAPS DOWN
Brakes AS REQUIRED

SHORT FIELD LANDING

Power AS REQUIRED
Flaps FULL EXTEND
Airspeed63 KIAS
Brakes APPLY HEAVILY
FlapsUP

AFTER LANDING

FlapsUP
Electric Fuel PumpOFF
MixtureLEAN FOR TAXI
TrimSET TAKEOFF
LightsAS REQUIRED

SECURING AIRCRAFT

Throttle1000 RPM
Avionics Master SwitchOFF
MixtureIDLE CUT-OFF
MagnetosOFF
Master SwitchOFF
Ignition KeyON DASH OR IN BINDER
Control LockINSTALL
Hobbs/Tach Times, Fuel, SquawksNOTE
Flight Plan (If Filed)CLOSE
Chocks and TiedownsINSTALL
Cowl Plugs and CoversINSTALL
Oil Sump Heater (Winter Operation)CONNECT

EMERGENCY PROCEDURES

ENGINE FIRE DURING START

StarterCRANK ENGINE
MixtureIDLE CUT-OFF
ThrottleOPEN
Electric Fuel PumpOFF
Fuel SelectorOFF
AircraftABANDON IF FIRE CONTINUES

ENGINE FIRE IN FLIGHT

MixtureIDLE CUT-OFF
Fuel SelectorOFF
ThrottleCLOSED
Electric Fuel PumpOFF
Heater and DefrosterOFF
Proceed with power off landing procedure.

ELECTRICAL FIRE (SMOKE IN CABIN)

Master SwitchOFF
VentsOPEN
Cabin HeatOFF
Land as soon as practicable.

ENGINE FAILURE DURING TAKEOFF RUN

ThrottleCLOSED
BrakesAPPLY

ENGINE FAILURE DURING INITIAL CLIMB

Airspeed73 KIAS
MixtureIDLE CUT-OFF
Electric Fuel PumpOFF
Fuel Selector..... OFF

Ignition..... OFF
 Master Switch..... OFF
 Flaps AS REQUIRED

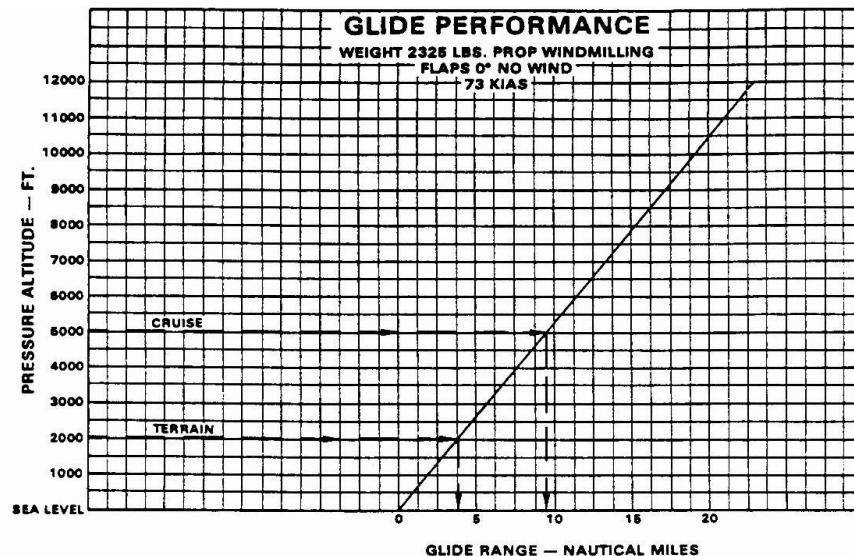
ENGINE FAILURE IN FLIGHT

Airspeed73 KIAS
 Carburetor Heat ON
 Electric Fuel Pump ON
 Fuel SelectorSWITCH TANKS
 Mixture FULL RICH
 Engine Gauges CHECK
 Ignition BOTH
 Starter ENGAGE

If unable to restart engine, proceed with power off landing procedure.

POWER OFF LANDING

Airspeed73 KIAS
 Throttle CLOSED
 Mixture IDLE CUT-OFF
 Ignition OFF
 Master Switch OFF
 Fuel Selector OFF
 Seat belts and harnesses SECURE
 Flaps AS REQUIRED
 Door UNLATCH
 Short Final Airspeed63 KIAS



ENGINE ROUGHNESS

Carburetor Heat ON

If roughness continues after one minute:

Carburetor Heat OFF
 Mixture ADJUST
 Electric Fuel Pump ON
 Fuel Selector SWITCH TANKS
 Engine Gauges CHECK
 Magneto Switch L, THEN R, THEN BOTH

If operation satisfactory on either magneto, continue on that magneto at reduced power and full "RICH" mixture to first airport. Prepare for power off landing.

LOSS OF FUEL PRESSURE

Electric Fuel Pump ON
 Fuel Selector FULLEST TANK

LOSS OF OIL PRESSURE AND/OR HIGH OIL TEMPERATURE

Land as soon as possible. Prepare for power off landing.

ELECTRICAL FAILURE (ALT LIGHT)

Ammeter VERIFY ALT FAIL
ALT Switch OFF
Electrical Load REDUCE
Circuit Breakers CHECK
ALT Switch ON
If power is not restored, turn ALT switch OFF, reduce electrical load and land as soon as practical.

ELECTRICAL OVERLOAD

Electrical Load REDUCE
If alternator loads are reduced:
ALT Switch OFF
Land as soon as practical.

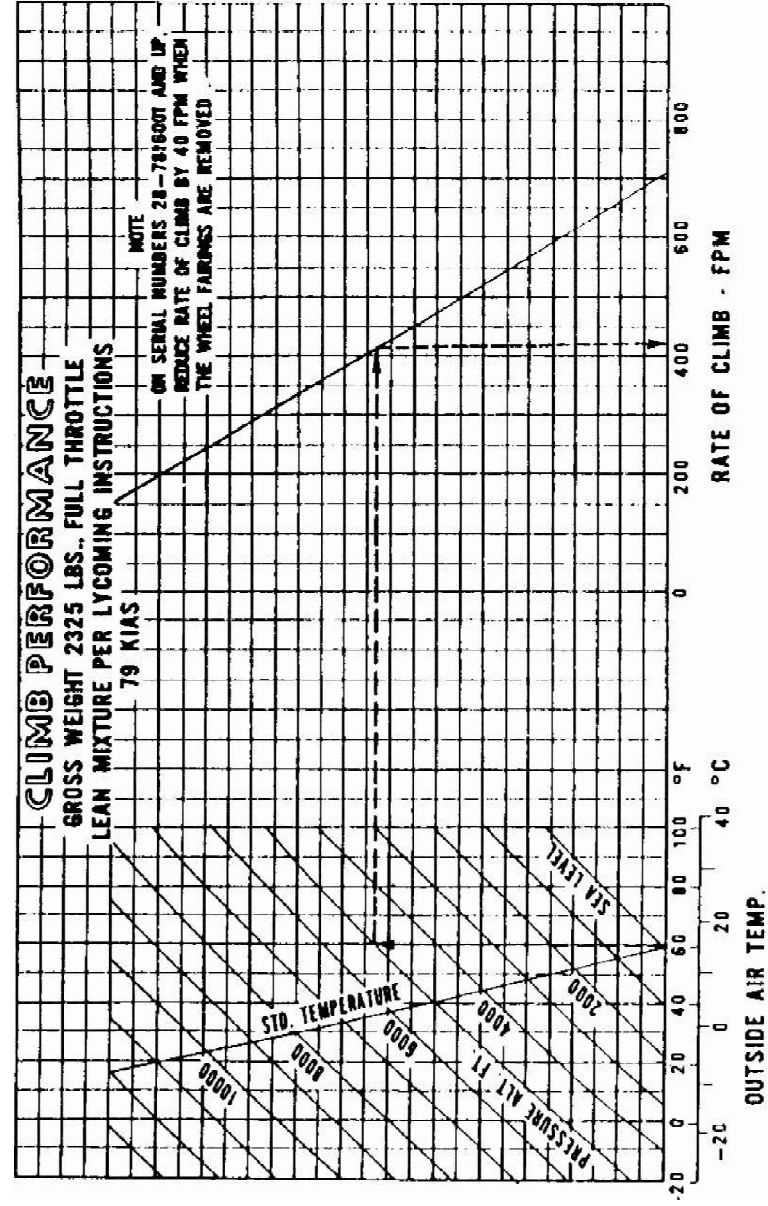
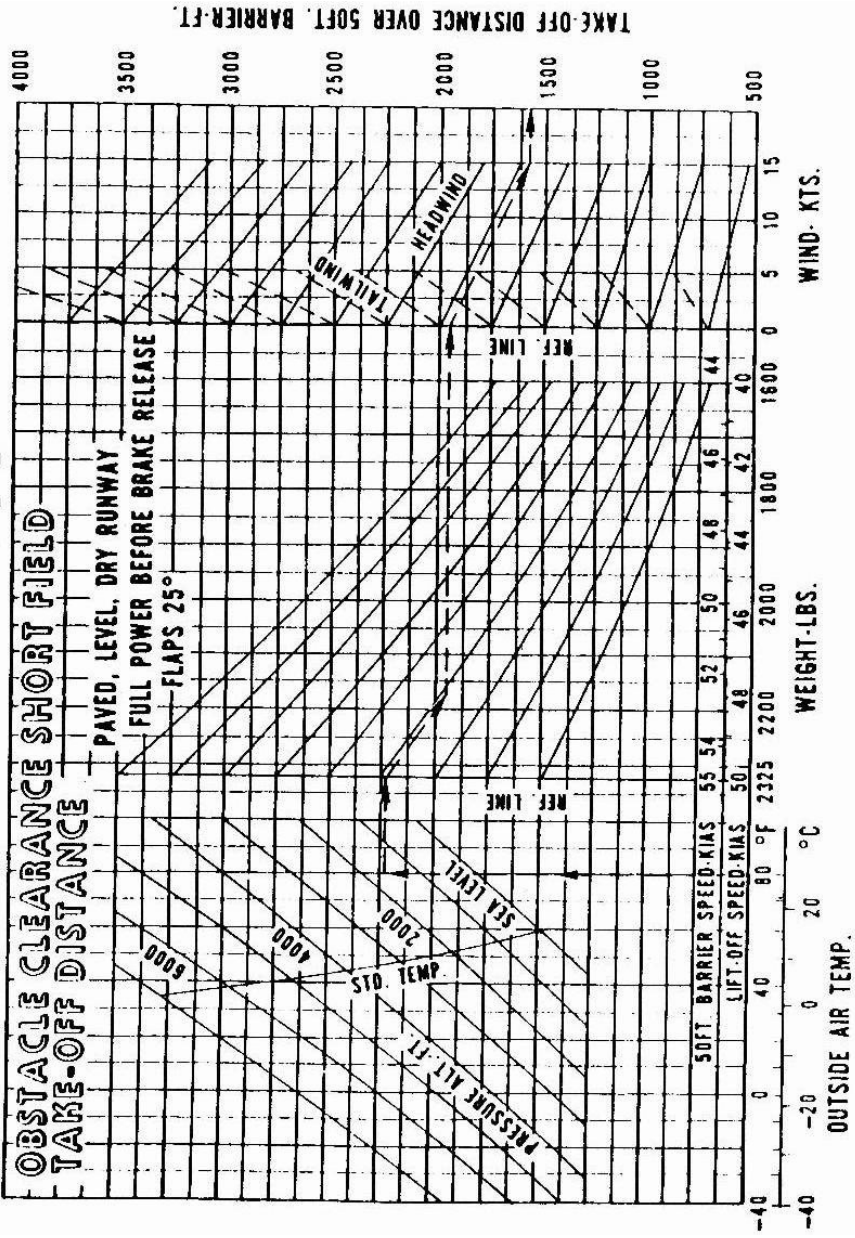
SPIN RECOVERY

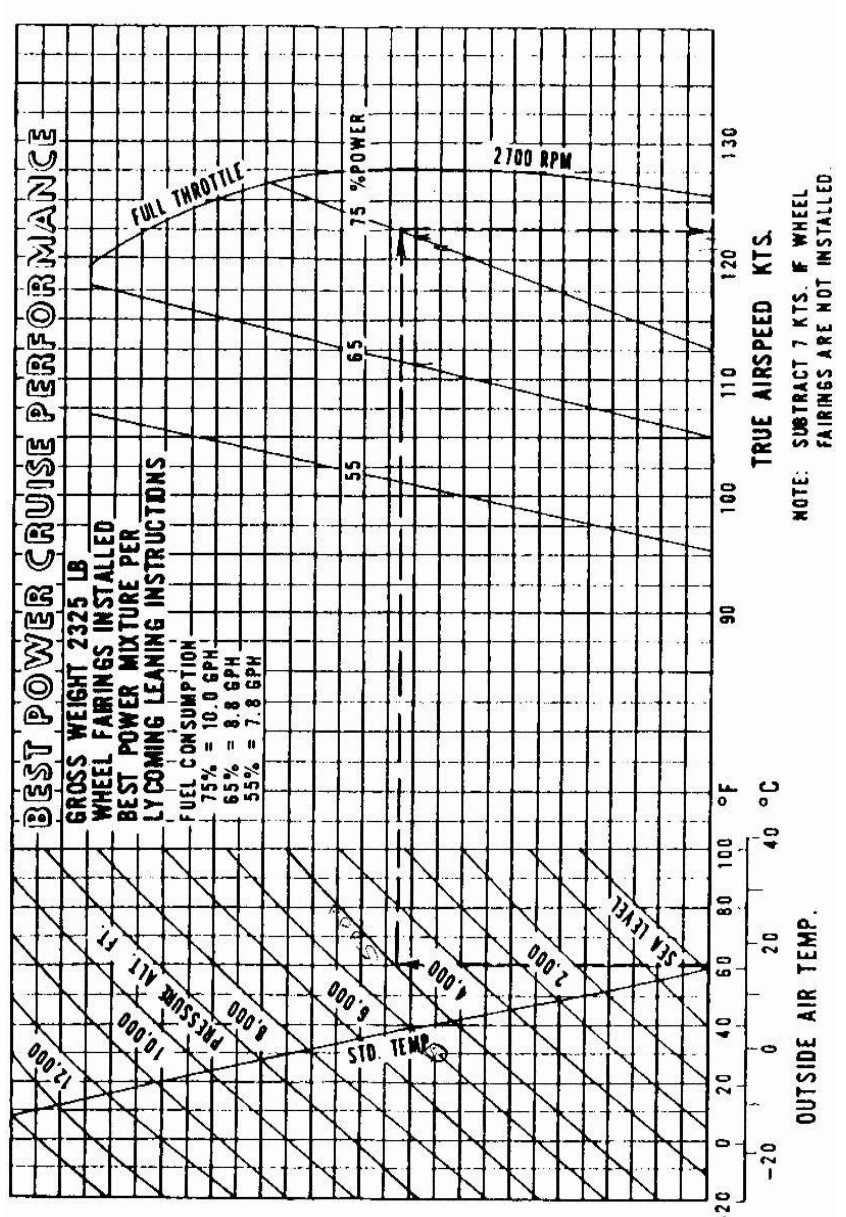
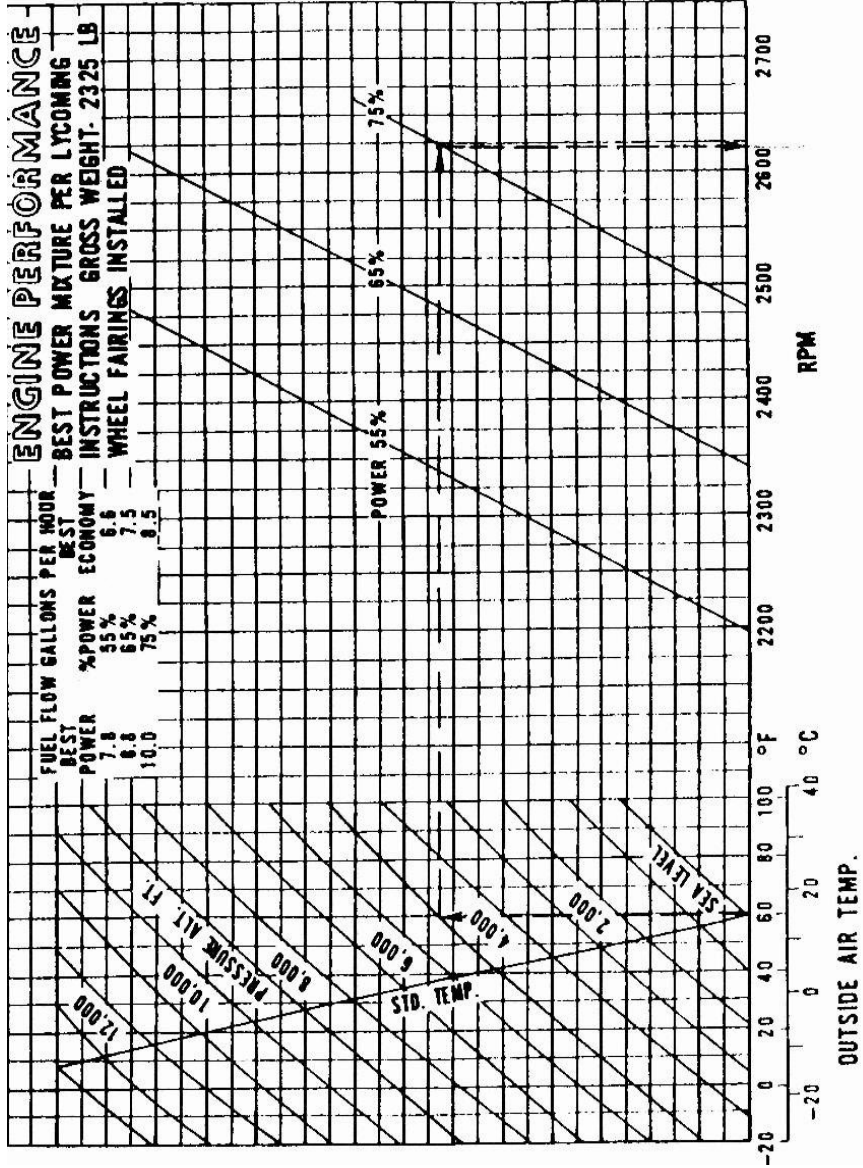
Throttle IDLE
Ailerons NEUTRAL
Rudder FULL OPPOSITE
Control Wheel FULL FORWARD
Rudder (when rotation stops) NEUTRAL
Recover from dive.

OPEN DOOR

Airspeed REDUCE TO 89 KIAS
Cabin Vents CLOSE
Storm Window OPEN
Open door slightly, then pull closed and latch.

NOTE: The following performance charts were taken from a PA28-161 manual, which should generally reflect the performance seen in this aircraft with a 160 hp engine conversion.





NOTE: SUBTRACT 7 KTS. IF WHEEL FAIRINGS ARE NOT INSTALLED.

