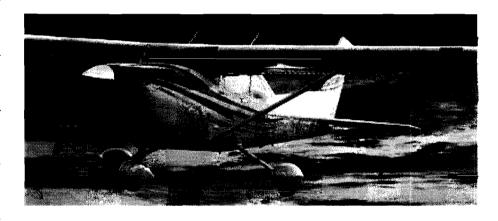


Pilots' Checklist

SkyLane

Model 182T NAV III AVIONICS OPTION



THIS CHECKLIST IS CURRENT WITH MODEL 182T NAV III POH FAA APPROVED U.S. PILOT'S OPERATING HANDBOOK REVISION 3, DATED 19 JULY, 2005. (PART NUMBER 182TPHAUS-03)

COPYRIGHT© 2004 CESSNA AIRCRAFT COMPANY WICHITA, KANSAS, USA

182TCLAUS-01

REVISION 1

19 JULY 2005

NOTICE

THE PILOT'S CHECKLIST SHOULD NOT BE USED UNTIL THE FLIGHT CREW HAS BECOME COMPLETELY FAMILIAR WITH THE AIRPLANE AND SYSTEMS. ALL NORMAL AND EMERGENCY PROCEDURE ITEMS AND COMPLETE PERFORMANCE IN THE PILOT'S OPERATING HANDBOOK AND FAA APPROVED AIRPLANE FLIGHT MANUAL SHALL TAKE PRECEDENCE IN CASE OF CONFLICT.

REVISIONS

Changes and/or additions to this checklist will be covered by Owner Advisory revisions published by Cessna Aircraft Company. Owner Advisories are mailed automatically at no charge to owners of United States registered airplanes according to FAA records at the time of the issuance. Owner Advisories are mailed automatically to owners of other than United States registered airplanes, to the subscription address provided Cessna on an Owner Advisory Application.

NOTE

It is the responsibility of the owner to maintain this checklist in a current status when it is being used for operational purposes.

Owners should contact a Cessna Service Station whenever the revision status of their checklist is in question.

REVISED MATERIAL INDICATORS

A bar will extend the full length of deleted, new or revised text added on new or presently existing pages. This bar will be located adjacent to the applicable text in the outer margin of the page.

A bar located adjacent to the figure number in the outer margin will be used to indicate that the figure number only has changed.

An asterisk located at the end of a figure number will be used to indicate that an illustration has been revised or is all new material (Ex: Figure 4*).

A change bar in the footer will indicate a revision to the header/footer, a new page, format or spelling/grammar changes and/or that information has slipped to or from that page.

All revised pages will carry the revision number opposite the page number on the applicable page. A list of revisions is located at the beginning of the Log of Effective Pages.

182TCLAUS-01

ij

NORMAL PROCEDURES

NAV III Avionics

TABLE OF CONTENTS

	AIRSPEEDS FOR NORMAL OPERATIONS	N-2
_	PREFLIGHT INSPECTION	N-3
	BEFORE STARTING ENGINE	N-10
	STARTING ENGINE (USING BATTERY)	N-10
_	STARTING ENGINE (USING EXTERNAL POWER)	N-12
	BEFORE TAKEOFF	
	TAKEOFF	N-17
_	NORMAL TAKEOFF	
	SHORT FIELD TAKEOFF	N-17
	ENROUTE CLIMB	N-18
_	NORMAL CLIMB	N-18
	MAXIMUM PERFORMANCE CLIMB	
_	CRUISE	N-18
	DESCENT	N-19
	BEFORE LANDING	N-20
_	LANDING	
	NORMAL LANDING	
	SHORT FIELD LANDING	N-21
	BALKED LANDING	N-21
	AFTER LANDING	
	SECURING AIRPLANE	N-22

N-1

AIRSPEEDS FOR NORMAL OPERATIONS	_
Unless otherwise noted, the following speeds are based on a maximum weight and may be used for any lesser weight.	_
TAKEOFF: Normal Climb	_
Normal, Sea Level 85 - 95 KIAS Best Rate-of-Climb, Sea Level 80 KIAS Best Rate-of-Climb, 10,000 Feet 74 KIAS Best Angle-of-Climb, Sea Level 65 KIAS Best Angle-of-Climb, 10,000 Feet 68 KIAS	_
LANDING APPROACH: Normal Approach, Flaps Up	_
BALKED LANDING: Maximum Power, Flaps 20°	_
MAXIMUM RECOMMENDED TURBULENT AIR PENETRATION SPEED: 3100 POUNDS 110 KIAS 2600 POUNDS 101 KIAS 2100 POUNDS 91 KIAS	_
MAXIMUM DEMONSTRATED CROSSWIND VELOCITY: Takeoff or Landing	_
All references to Sections throughout this checklist refer to the corresponding Section of the Pilot's Operating Handbook.	
	_
	_

182TCLAUS-01

N-2

Model 182T NAV III Avionics Pilots' Checklist

NORMAL PROCEDURES PREFLIGHT INSPECTION

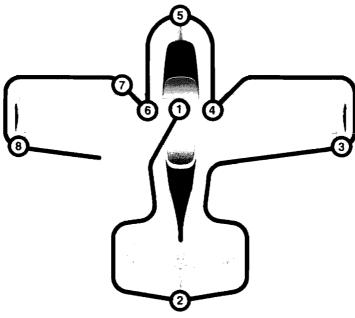


Figure 1

NOTE

Visually check airplane for general condition during walk-around inspection. Airplane should be parked in a normal ground attitude (refer to Figure 1-1 in the POH) to ensure that fuel drain valves allow for accurate sampling. Use of the refueling steps and assist handles will simplify access to the upper wing surfaces for visual checks and refueling operations. In cold weather, remove even small accumulations of frost, ice or snow from wing, tail and control surfaces. Also, make sure that control surfaces contain no internal accumulations of ice or debris. Prior to flight, check that pitot heater is warm to touch within 30 seconds with battery and pitot heat switches on. If a night flight is planned, check operation of all lights, and make sure a flashlight is available.

(Continued Next Page)

182TCLAUS-01 N-3



CABIN

1.	Pitot Tube Cover REMOVE (Check for pitot blockage)	
2.	Pilots' Operating Handbook ACCESSIBLE TO PILOT	
3.	Garmin G1000™ Cockpit	-
	Reference Guide ACCESSIBLE TO PILOT	
4.	Airplane Weight and Balance	
5.	Parking Brake SET	
6.	Control Wheel Lock REMOVE	

WARNING

WHEN THE MASTER SWITCH IS ON, USING AN EXTERNAL POWER SOURCE, OR MANUALLY ROTATING THE PROPELLER, TREAT THE PROPELLER AS IF THE MAGNETOS SWITCH WERE ON. DO NOT STAND, NOR ALLOW ANYONE ELSE TO STAND, WITHIN THE ARC OF THE PROPELLER SINCE A LOOSE OR BROKEN WIRE, OR A COMPONENT MALFUNCTION, COULD CAUSE THE ENGINE TO START.

(Continued Next Page)

N-4

182TCLAUS-01

__

_	(1)	CABIN (Continued)
	20.	Aft Avionics Fan CHECK AUDIBLY FOR OPERATION
	21.	AVIONICS Switch (BUS 2)OFF
_	22.	PITOT HEAT Switch
		(Carefully check that pitot tube is warm
		to the touch within 30 seconds)
_	23.	Stall Warning System
		(Gently move the stall vane upward and
	0.4	verify that the stall warning horn is heard)
_	24.	PITOT HEAT Switch OFF MASTER Switch (ALT and BAT)
	25. 26.	Trim Controls TAKEOFF position
	26. 27.	FUEL SELECTOR Valve
	27. 28.	ALT STATIC AIR Valve
_	20. 29.	Fire Extinguisher
	20.	The Extinguisher
_	2	EMPENNAGE
_	1.	Baggage Compartment Door CHECK latched, lock with key
	2.	Rudder Gust Lock (if installed)REMOVE
	3. 4.	Tail Tiedown
	4. 5.	Trim Tab CHECK for freedom of movement and security
	5. 6.	Antennas
	0.	and general condition
_		
	(3)	RIGHT WING TRAILING EDGE
		Mont with male in Ebol
_		All and CUECK for five orders of measurement and consists.
	1. 2.	Aileron CHECK for freedom of movement and security Flap
	۷.	riap Grizon for security and condition
_		
		(Continued Next Page)
_		
	182TC	LAUS-01 N-5
	10210	

(4)
1	•	1

RIGHT WING

1.	Wing Tiedown	DISCONNECT
2.	Fuel Tank Vent Opening	CHECK for blockage
3.	Main Wheel Tire	CHECK
	for proper i	nflation and general condition

(weather checks, tread depth and wear, etc.)
4. Fuel Tank Sump Quick Drain Valves DRAIN

Drain at least a cupful of fuel (using sampler cup) from each sump location to check for water, sediment, and proper fuel grade before each flight and after each refueling. If water is observed, take further samples until clear and then gently rock wings and lower tail to the ground to move any additional contaminants to the sump locations. Take repeated samples from all sump locations until all contamination has been removed. If contaminants are still present, refer to WARNING below and do not fly airplane.

NOTE

Collect all sampled fuel in a safe container. Dispose of the sampled fuel so that it does not cause a nuisance, hazard or damage to the environment.

WARNING

IF, AFTER REPEATED SAMPLES, EVIDENCE OF CONTAMINATION STILL EXISTS, THE AIRPLANE SHOULD NOT BE FLOWN. TANKS SHOULD BE DRAINED AND SYSTEM PURGED BY QUALIFIED MAINTENANCE PERSONNEL. ALL EVIDENCE OF CONTAMINATION MUST BE REMOVED BEFORE FLIGHT.

- 5. Fuel Quantity CHECK VISUALLY for desired level
- 6. Fuel Filler Cap..... SECURE and VENT UNOBSTRUCTED

(Continued Next Page)

N-6



- 2. Fuel Strainer Quick Drain Valve (Located on lower right side of engine cowling) DRAIN

Drain at least a cupful of fuel (using sampler cup) from valve to check for water, sediment, and proper fuel grade before each flight and after each refueling. If water is observed, take further samples until clear and then gently rock wings and lower tail to the ground to move any additional contaminants to the sump locations. Take repeated samples from all sump locations, including the fuel return line and the fuel selector, until all contamination has been removed. If contaminants are still present, refer to WARNING below and do not fly airplane.

NOTE

Collect all sampled fuel in a safe container. Dispose of the sampled fuel so that it does not cause a nuisance, hazard or damage to the environment.

WARNING

IF, AFTER REPEATED SAMPLES, EVIDENCE OF CONTAMINATION STILL EXISTS, THE AIRPLANE SHOULD NOT BE FLOWN. TANKS SHOULD BE DRAINED AND SYSTEM PURGED BY QUALIFIED MAINTENANCE PERSONNEL. ALL EVIDENCE OF CONTAMINATION MUST BE REMOVED BEFORE FLIGHT.

3. Engine Oil Dipstick/Filler Cap CHECK OIL LEVEL

then check dipstick/filler cap SECURE.

Do not operate with less than 4 quarts.

Fill to 9 quarts for extended flight

- 4. Engine Cooling Air Inlets CLEAR of obstructions
- 5. Propeller and Spinner CHECK for nicks and security

(Continued Next Page)

PREFLIGHT INSPECTION (Continued) **NOSE (Continued)** 6. Air Filter CHECK for restrictions by dust or other foreign matter for proper inflation of strut and general condition of tire (weather checks, tread depth and wear, etc.) Static Source Opening (left side of fuselage)................ CHECK for blockage **LEFT WING** 2. Fuel Quantity CHECK VISUALLY for desired level 3. Fuel Filler Cap..... SECURE and VENT UNOBSTRUCTED 4. Fuel Tank Sump Quick Drain Valves DRAIN Drain at least a cupful of fuel (using sampler cup) from each sump location to check for water, sediment, and proper fuel grade before each flight and after each refueling. If water is observed, take further samples until clear and then gently rock wings and lower tail to the ground to move any additional contaminants to the sump locations. repeated samples from all sump locations until all contamination has been removed. If contaminants are still present, refer to WARNING below and do not fly airplane. NOTE Collect all sampled fuel in a safe container. Dispose of the sampled fuel so that it does not cause a nuisance, hazard or damage to the environment. (Continued Next Page)

N-8

(6)

LEFT WING (Continued)

WARNING

IF, AFTER REPEATED SAMPLES, EVIDENCE OF CONTAMINATION STILL EXISTS, THE AIRPLANE SHOULD NOT BE FLOWN. TANKS SHOULD BE DRAINED AND SYSTEM PURGED BY QUALIFIED MAINTENANCE PERSONNEL. ALL EVIDENCE OF CONTAMINATION MUST BE REMOVED BEFORE FLIGHT.

$\widehat{f 7})$ LEFT WING LEADING EDGE

- - cleanliness of cover

(8) LEFT WING TRAILING EDGE

182TCLAUS-01 N-9

	ORE STARTING ENGINE	_
1. 2. 3.	Passenger Briefing	-
4. 5. 6.	Brakes	-
	CAUTION	_
	THE AVIONICS SWITCH (BUS 1 AND BUS 2) MUST BE OFF DURING ENGINE START TO PREVENT POSSIBLE DAMAGE TO AVIONICS.	_
7. 8. 9.	Cowl Flaps OPEN	_
		_
STA	RTING ENGINE (USING BATTERY)	
1.	Throttle Control OPEN 1/4 INCH	
2. 3. 4.	Propeller Control	_
3.	Propeller Control	_
3.	Propeller Control	_
3. 4.	Propeller Control	
3. 4. 5. 6. 7. 8. 9.	Propeller Control	

STARTING ENGINE (USING BATTERY) (Continued)

NOTE

		NOTE
-		If engine is warm, omit priming procedure of steps 12, 13 and 14 below.
	12.	FUEL PUMP Switch
	13.	Mixture Control ADVANCE to FULL RICH wait until fuel flow indication is stable, then return to IDLE CUT OFF position
	14.	FUEL PUMP SwitchOFF
_	15. 16.	MAGNETOS Switch START release when engine starts Mixture Control ADVANCE smoothly to FULL RICH when engine starts
_		NOTE
		NOTE
_		If the engine floods, place the mixture control in the IDLE CUT OFF position, open the throttle control 1/2 to full, and engage the starter motor (START). When the engine starts, advance the mixture control to the FULL RICH position and retard the throttle control promptly.
_	17. 18. 19.	OIL Pressure
_	20. 21. 22.	BEACON Light Switch

182TCLAUS-01 N-11

STARTING ENGINE (USING EXTERNAL _ POWER)

1. 2.	Throttle Control OPEN 1/4 INCH Propeller Control	_
3. 4.	Mixture Control	_
	not go out) b. ARM - (verify that PFD comes on)	
5.	Engine Indication System	_
6. 7.	BUS E Volts VERIFY 24 VOLTS minimum M BUS Volts VERIFY 0 VOLTS	
8. 9.	BATT S Amps VERIFY discharge (negative) STBY BATT Annunciator VERIFY ON	
10. 11. 12.	Propeller Area	
12. 13. 14. 15.	External Power	-
	NOTE	
	If engine is warm, omit priming procedure of steps 16, 17 and 18 below.	
16. 17.	FUEL PUMP Switch ON Mixture Control Advance to FULL RICH	_
	wait until indicated fuel flow stabilizes,	
	then return to IDLE CUT OFF position	_
18. 19.	then return to IDLE CUT OFF position FUEL PUMP SwitchOFF MAGNETOS SwitchSTART release when engine starts	_
	then return to IDLE CUT OFF position FUEL PUMP SwitchOFF	_
19.	then return to IDLE CUT OFF position FUEL PUMP SwitchOFF MAGNETOS SwitchSTART release when engine starts Mixture ControlADVANCE smoothly to FULL RICH	

182TCLAUS-01

N-12

STARTING **ENGINE** (USING EXTERNAL POWER) (Continued)

_		NOTE
_		If the engine floods, place the mixture control in the IDLE CUT OFF position, open the throttle control 1/2 to full, and engage the starter motor (START). When the engine starts, advance the mixture control to the FULL RICH position and retard the throttle control promptly.
_	21. 22. 23.	OIL Pressure
	24.	Engine RPM INCREASE
		(to approximately 1500 RPM for several minutes to charge battery)
	25. 26. 27.	AMPS (M BATT and BATT S) CHECK charge (positive) LOW VOLTS Annunciator VERIFY OFF Internal Power
_		a. MASTER Switch (ALT) OFF b. TAXI and LANDING Light Switches ON c. Engine RPM REDUCE to idle
_		d. MASTER Switch (ALT and BAT)
-		f. Main Battery (M BATT) Ammeter
_		WARNING
_		IF M BATT (MAIN BATTERY) DOES NOT SHOW + AMPS, REMOVE THE MAIN BATTERY FROM THE AIRPLANE AND SERVICE OR REPLACE THE BATTERY BEFORE FLIGHT.
	28. 29. 30.	BEACON Light Switch
_		
	182TC	LAUS-01 N-13

BEFORE TAKEOFF Parking Brake SET Passenger Seat Backs MOST UPRIGHT POSITION 5. Flight Controls FREE and CORRECT 6. Flight Instruments (PFD) CHECK (no red X's) 7. Altimeters: b. Standby Altimeter. SET G1000 ALT SEL..... SET 9. KAP 140 Altitude Preselect SET NOTE There is no connection between the G1000 ALT SEL feature and the KAP 140 autopilot altitude preselect or altitude hold functions. G1000 and KAP 140 altitudes are set independently. 11. Fuel Quantity CHECK, verify correct level NOTE Flight is not recommended when both fuel quantity indicators are in the yellow arc range. 12. Mixture Control RICH 13. FUEL SELECTOR Valve RECHECK BOTH 14. Elevator and Rudder Trim SET for takeoff (Refer to the POH/AFM, Supplement 3 for Manual Electric Trim check procedures) (Continued Next Page) N-14 182TCLAUS-01

BEFORE TAKEOFF (Continued)

-	16. 17.	Throttle Control
	18. 19.	Throttle Control
	20.	Throttle Control Friction Lock
-	21.	COM Frequency(s)
	22.	NAV Frequency(s)
	23.	FMS/GPS Flight Plan AS DESIRED
-		NOTE
		Check GPS2 availability on AUX-GPS STATUS page. No
-		annunciation is provided for loss of GPS2.
	24. 25.	XPDR

CAUTION

THE G1000 HSI SHOWS A COURSE DEVIATION INDICATOR FOR THE SELECTED GPS, NAV 1 OR NAV 2 NAVIGATION SOURCE. THE G1000 HSI DOES NOT PROVIDE A WARNING "FLAG" WHEN A VALID NAVIGATION SIGNAL IS NOT BEING SUPPLIED TO THE INDICATOR. WHEN A VALID NAVIGATION SIGNAL IS NOT BEING SUPPLIED, THE COURSE DEVIATION BAR (DBAR) PART OF THE INDICATOR IS NOT SHOWN ON THE HSI COMPASS CARD. THE MISSING D-BAR IS CONSIDERED TO BE THE WARNING FLAG.

(Continued Next Page)

BEFORE TAKEOFF (Continued)

WARNING

WHEN THE KAP 140 AUTOPILOT IS ENGAGED IN NAV, APR OR REV OPERATING MODES, IF THE HSI NAVIGATION SOURCE IS CHANGED FROM GPS TO NAV1, AUTOMATICALLY OR MANUALLY (USING THE CDI SOFTKEY), OR MANUALLY FROM NAV2 TO GPS, THE CHANGE WILL INTERRUPT THE NAVIGATION SIGNAL TO THE AUTOPILOT AND WILL CAUSE THE AUTOPILOT TO REVERT TO ROL MODE OPERATION. NO WARNING CHIME OR PFD ANNUNCIATION WILL BE THE PREVIOUSLY SELECTED MODE PROVIDED. SYMBOL SHOWN ON THE AUTOPILOT DISPLAY WILL BE FLASHING TO SHOW THE REVERSION TO ROL MODE OPERATION. IN ROL MODE, THE AUTOPILOT WILL ONLY KEEP THE WINGS LEVEL AND WILL NOT CORRECT THE AIRPLANE HEADING OR COURSE. SET THE HDG BUG TO THE CORRECT HEADING AND SELECT THE CORRECT NAVIGATION SOURCE ON THE HSI USING THE CDI SOFTKEY BEFORE ENGAGING THE AUTOPILOT IN ANY OTHER OPERATING MODE.

 26. Autopilot
 OFF

 27. Wing Flaps
 0° - 20° (10° preferred)

 28. Cowl Flaps
 OPEN

 29. Cabin Windows
 CLOSED and LOCKED

 30. STROBE Lights Switch
 ON

 31. Brakes
 RELEASE

N-16 182TCLAUS-01

TAKEOFF

NORMAL TAKEOFF

_	1. 2. 3.	Wing Flaps 0° - 20° (10° preferred) Throttle Control FULL Propeller Control 2400 RPM
-	4.	Mixture Control
	5.	Elevator Control LIFT NOSEWHEEL AT 50 - 60 KIAS
_	6.	Climb Airspeed
	7.	Wing Flaps RETRACT at safe altitude
	SHOF	RT FIELD TAKEOFF
	1.	Wing Flaps
_	• • • • • • • • • • • • • • • • • • • •	
_	2.	Brakes
_		
_	2.	Brakes
_	2. 3.	Brakes APPLY
_	2. 3. 4.	Brakes APPLY Throttle Control FULL Propeller Control 2400 RPM Mixture Control FULL RICH
_	2. 3. 4.	Brakes APPLY Throttle Control FULL Propeller Control 2400 RPM Mixture Control FULL RICH (Above 5000 feet pressure altitude, lean for maximum RPM)
_	2. 3. 4. 5.	Brakes APPLY Throttle Control FULL Propeller Control 2400 RPM Mixture Control FULL RICH (Above 5000 feet pressure altitude, lean for maximum RPM) Brakes RELEASE
_	2. 3. 4. 5.	Brakes. APPLY Throttle Control FULL Propeller Control 2400 RPM Mixture Control FULL RICH (Above 5000 feet pressure altitude, lean for maximum RPM) Brakes RELEASE Elevator Control SLIGHTLY TAIL LOW
_	2. 3. 4. 5.	Brakes. APPLY Throttle Control FULL Propeller Control 2400 RPM Mixture Control FULL RICH (Above 5000 feet pressure altitude, lean for maximum RPM) Brakes RELEASE Elevator Control SLIGHTLY TAIL LOW Climb Airspeed 58 KIAS
_ _	2. 3. 4. 5. 6. 7. 8.	Brakes. APPLY Throttle Control FULL Propeller Control 2400 RPM Mixture Control FULL RICH (Above 5000 feet pressure altitude, lean for maximum RPM) Brakes RELEASE Elevator Control SLIGHTLY TAIL LOW Climb Airspeed 58 KIAS (Until all obstacles are cleared)
_	2. 3. 4. 5.	Brakes. APPLY Throttle Control FULL Propeller Control 2400 RPM Mixture Control FULL RICH (Above 5000 feet pressure altitude, lean for maximum RPM) Brakes RELEASE Elevator Control SLIGHTLY TAIL LOW Climb Airspeed 58 KIAS

182TCLAUS-01 N-17

ENROUTE CLIMB NORMAL CLIMB (if less than 23 in.hq.) (if less than 15 GPH) 5. FUEL SELECTOR Valve......BOTH 6. Cowl Flaps OPEN as required MAXIMUM PERFORMANCE CLIMB 1. Airspeed...... 80 KIAS at Sea Level 74 KIAS at 10.000 Feet 4. Mixture Control FULL RICH or SET to Maximum Power Fuel Flow placard value for altitude 5. FUEL SELECTOR Valve......BOTH 6. Cowl Flaps OPEN **CRUISE** (No more than 80% power recommended) 2. Elevator and Rudder Trim ADJUST 3. Mixture Control LEAN 5. FMS/GPS..... REVIEW and BRIEF OBS/SUSP softkey operation for hold pattern procedure (IFR)

182TCLAUS-01

N-18

DESCENT

Model 182T

	1.	Power
	2.	Mixture ENRICHEN AS REQUIRED
_		(for smooth operation)
	3.	Cowl Flaps
	4.	Altimeters:
		a. PFD (BARO)
		b. Standby Altimeter SET
		c. KAP 140 Autopilot (BARO) SET
	5.	G1000 ALT SELSET
_	6.	KAP 140 Altitude Preselect SET
		NOTE
-		There is no connection between the G1000 ALT SEL feature
		and the KAP 140 autopilot altitude preselect or altitude hold
		functions. G1000 and KAP 140 altitudes are set
		independently.
	7.	CDI Softkey
	8.	FMS/GPS REVIEW and BRIEF OBS/SUSP softkey
_		operation for holding pattern procedure (IFR)

CAUTION

THE G1000 HSI SHOWS A COURSE DEVIATION INDICATOR FOR THE SELECTED GPS, NAV 1 OR NAV 2 NAVIGATION SOURCE. THE G1000 HSI DOES NOT PROVIDE A WARNING "FLAG" WHEN A VALID NAVIGATION SIGNAL IS NOT BEING SUPPLIED TO THE INDICATOR. WHEN A VALID NAVIGATION SIGNAL IS NOT BEING SUPPLIED, THE COURSE DEVIATION BAR (DBAR) PART OF THE INDICATOR IS NOT SHOWN ON THE HSI COMPASS CARD. THE MISSING D-BAR IS CONSIDERED TO BE THE WARNING FLAG.

(Continued Next Page)

182TCLAUS-01 N-19

DESCENT (Continued)

WARNING

WHEN THE KAP 140 AUTOPILOT IS ENGAGED IN NAV. APR OR REV OPERATING MODES, IF THE HSI NAVIGATION SOURCE IS CHANGED FROM GPS TO NAV1, AUTOMATICALLY OR MANUALLY (USING THE CDI SOFTKEY), OR MANUALLY FROM NAV2 TO GPS, THE CHANGE WILL INTERRUPT THE NAVIGATION SIGNAL TO THE AUTOPILOT AND WILL CAUSE THE AUTOPILOT TO REVERT TO ROL MODE OPERATION. NO WARNING CHIME OR PFD ANNUNCIATION WILL BE PROVIDED. THE PREVIOUSLY SELECTED MODE SYMBOL SHOWN ON THE AUTOPILOT DISPLAY WILL BE FLASHING TO SHOW THE REVERSION TO ROL MODE OPERATION. IN ROL MODE, THE AUTOPILOT WILL ONLY KEEP THE WINGS LEVEL AND WILL NOT CORRECT THE AIRPLANE HEADING OR COURSE. SET THE HDG BUG TO THE CORRECT HEADING AND SELECT THE CORRECT NAVIGATION SOURCE ON THE HSI USING THE CDI SOFTKEY BEFORE ENGAGING THE AUTOPILOT IN ANY OTHER OPERATING MODE.

BEFORE LANDING

1. Pilot and Passenger Seat Backs ... MOST UPRIGHT POSITION
2. Seats and Seat Belts ... SECURED and LOCKED
3. FUEL SELECTOR Valve ... BOTH
4. Mixture Control ... RICH
5. Propeller Control ... HIGH RPM
6. LANDING and TAXI Light Switches ... ON
7. Autopilot ... OFF

N-20

LANDING

NORMAL LANDING

	1.		
	2.	wing Flaps	(0° - 10° below 140 KIAS)
			(10° - 20° below 120 KIAS)
_			(20° - FULL below 100 KIAS)
	3.	Airspeed	60 - 70 KIAS (Flaps FULL)
	4.		ADJUST
	5.	Touchdown	MAIN WHEELS FIRST
	6.		LOWER NOSEWHEEL GENTLY
	7.		AS REQUIRED
_	CHOE	RT FIELD LANDING	
	SHUI	RI FIELD LANDING	
_	1.	Airspeed	70 - 80 KIAS (Flaps UP)
	2.	Wing Flaps	FULL (below 100 KIAS)
	3.	Power	REDUCE TO IDLE
			(As obstacle is cleared)
_	4.		60 KIAS (until flare)
	5.		ADJUST MAIN WHEELS FIRST
	6. 7.		APPLY HEAVILY
_		Diakes	AITEI NEAVIET
	BALK	(ED LANDING	
	1.	Power	FULL THROTTLE and 2400 RPM
	2.		RETRACT TO 20°
	3.		55 KIAS
_	4.		RETRACT SLOWLY After reaching a safe altitude and 70 KIAS)
	5.		OPEN
	0.	Cow Hapo	
_			
_			
	100T0	1.4110.04	AL O4
	₁ 1821 C	LAUS-01	N-21

(To prevent crossfeeding between tanks)

N-22 182TCLAUS-01

EMERGENCY PROCEDURES

TABLE OF CONTENTS

	AIRSPEEDS FOR EMERGENCY OPERATIONS	E-3
	ENGINE FAILURES	E-4
	ENGINE FAILURE DURING TAKEOFF ROLL	E-4
	ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF	E-4
	ENGINE FAILURE DURING FLIGHT (RESTART PROCEDUR	RES)E-5
_	FORCED LANDINGS	E-6
	EMERGENCY LANDING WITHOUT ENGINE POWER	E-6
_	PRECAUTIONARY LANDING WITH ENGINE POWER	E-6
	DITCHING	E-7
	FIRES	E-8
	DURING START ON GROUND	E-8
	ENGINE FIRE IN FLIGHT	E-9
	ELECTRICAL FIRE IN FLIGHT	E-10
	CABIN FIRE	E-11
	WING FIRE	E-11
	ICING	E-12
	INADVERTENT ICING ENCOUNTER DURING FLIGHT	E-12
	STATIC SOURCE BLOCKAGE	
	(ERRONEOUS INSTRUMENT READING SUSPECTED)	
	EXCESSIVE FUEL VAPOR	E-13
	FUEL FLOW STABILIZATION PROCEDURES	
	ABNORMAL LANDINGS	E-14
	LANDING WITH A FLAT MAIN TIRE	
	LANDING WITH A FLAT NOSE TIRE	E-14

(Continued Next Page)

182TCLAUS-01 E-1

TABLE OF CONTENTS (Continued)

ELECTRICAL POWER SUPPLY SYSTEM MALFUNCTIONSE-14	
M BUS VOLTS MORE THAN 32 OR	
M BAT AMPS MORE THAN 40E-14	
LOW VOLTS ANNUNCIATOR COMES ON BELOW 1000 RPME-16	
LOW VOLTS ANNUNCIATOR COMES ON OR DOES NOT GO OFF AT HIGHER RPME-16	
AIR DATA SYSTEM FAILUREE-18	
RED X - PFD AIRSPEED INDICATORE-18	
RED X - PFD ALTITUDE INDICATORE-18	
ATTITUDE AND HEADING REFERENCE SYSTEM	-
(AHRS) FAILUREE-18	
RED X - PFD ATTITUDE INDICATORE-18	
RED X - HORIZONTAL SITUATION INDICATOR (HSI)E-18	_
DISPLAY COOLING ADVISORYE-19	
PFD1 COOLING OR MFD1 COOLING ANNUNCIATOR(S)E-19	
VACUUM SYSTEM FAILUREE-19	
LOW VACUUM ANNUNCIATOR COMES ONE-19	
MAXIMUM GLIDE E-20	

E-2

AIRSPEEDS

AIRSPEEDS FOR EMERGENCY OPERATIONS

_	ENGINE FAILURE AFTER TAKEOFF Wing Flaps Up	
	MANEUVERING SPEED 3100 POUNDS	-
	2600 POUNDS	
_	MAXIMUM GLIDE	,
	3100 POUNDS	
_	2100 POUNDS	
	PRECAUTIONARY LANDING WITH ENGINE POWER 70 KIAS	
_	LANDING WITHOUT ENGINE POWER 75 KIAS Wing Flaps Up. 75 KIAS Wing Flaps 10° - FULL. 70 KIAS	

182TCLAUS-01 E-3

EMERGENCY PROCEDURES

Procedures in the Emergency Procedures Checklist portion of this section shown in **bold-faced** type are immediate action items which should be committed to memory.

ENGINE FAILURES

ENGINE FAILURE DURING TAKEOFF ROLL

1.	Throttle Control	IDLE (pull full out)	
2.	Brakes	APPLY	
3.	Wing Flaps	RETRACT	
4.	Mixture Control IDLE	CUT OFF (pull full out)	_
5.	MAGNETOS Switch	OFF	
6.	STBY BATT Switch	OFF	
7.	MASTER Switch (ALT and BAT)	OFF	_

ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

1.	Airspeed	-
	70 KIAS (Flaps 10° - FULL)	
2.	Mixture Control IDLE CUT OFF (pull full out)	
3.	FUEL SELECTOR Valve PUSH DOWN and ROTATE TO OFF	_
4.	MAGNETOS Switch	
5.	Wing Flaps	
	(FULL recommended)	_
6.	STBY BATT Switch OFF	
7.	MASTER Switch (ALT and BAT) OFF	
8.	Cabin Door	
9.	LandSTRAIGHT AHEAD	-

E-4

ENGINE FAILURE DURING FLIGHT (RESTART PROCEDURES)

1.	Airspeed	76 KIAS (best glide speed)
2.	FUEL SELECTOR Valve	BOTH
3.	FUEL PUMP Switch	
4.	Mixture Control	RICH (if restart has not occurred)
5.	MAGNETOS Switch	BOTH (or START if
		propeller is stopped)

NOTE

If propeller is windmilling, engine will restart automatically within a few seconds. If propeller has stopped (possible at low speeds), turn MAGNETOS switch to START, advance throttle slowly from idle, and lean the mixture from full rich as required to obtain smooth operation.

6. FUEL PUMP Switch......OFF

NOTE

If the indicated fuel flow (FFLOW GPH) immediately drops to zero, a sign of failure of the engine-driven fuel pump, return the FUEL PUMP Switch to the ON position.



E-6

FORCED LANDINGS

EMERGENCY LANDING WITHOUT ENGINE POWER

1. 2. 3.	Passenger Seat Backs MOST UPRIGHT POSITION Seats and Seat Belts SECURE Airspeed 75 KIAS (Flaps UP)	_
	70 KIAS (Flaps 10° - FULL)	_
4. 5.	Mixture Control	
5. 6.	MAGNETOS SwitchOFF	
7.	Wing Flaps AS REQUIRED	_
	(FULL recommended)	
8.	STBY BATT Switch OFF	
9.	MASTER Switch (ALT and BAT)	_
10	(when landing is assured) Doors UNLATCH PRIOR TO TOUCHDOWN	
11.	Touchdown	
12.	Brakes APPLY HEAVILY	
PREC	CAUTIONARY LANDING WITH ENGINE POWER	_
		_
PREC 1. 2.	Passenger Seat Backs MOST UPRIGHT POSITION Seats and Seat Belts SECURE	_
1.	Passenger Seat Backs	_
1. 2. 3. 4.	Passenger Seat Backs MOST UPRIGHT POSITION Seats and Seat Belts SECURE Airspeed 75 KIAS Wing Flaps 20°	_
1. 2. 3.	Passenger Seat Backs MOST UPRIGHT POSITION Seats and Seat Belts SECURE Airspeed 75 KIAS Wing Flaps 20° Selected Field FLY OVER	_
1. 2. 3. 4. 5.	Passenger Seat Backs MOST UPRIGHT POSITION Seats and Seat Belts SECURE Airspeed 75 KIAS Wing Flaps 20° Selected Field FLY OVER (noting terrain and obstructions)	_
1. 2. 3. 4.	Passenger Seat Backs MOST UPRIGHT POSITION Seats and Seat Belts SECURE Airspeed 75 KIAS Wing Flaps 20° Selected Field FLY OVER	_
1. 2. 3. 4. 5.	Passenger Seat Backs MOST UPRIGHT POSITION Seats and Seat Belts SECURE Airspeed 75 KIAS Wing Flaps 20° Selected Field FLY OVER (noting terrain and obstructions) Wing Flaps FULL (on final approach)	_
1. 2. 3. 4. 5.	Passenger Seat Backs MOST UPRIGHT POSITION Seats and Seat Belts SECURE Airspeed 75 KIAS Wing Flaps 20° Selected Field FLY OVER (noting terrain and obstructions) Wing Flaps FULL (on final approach) Airspeed 70 KIAS STBY BATT Switch OFF MASTER Switch (ALT and BAT)	-
1. 2. 3. 4. 5.	Passenger Seat Backs MOST UPRIGHT POSITION Seats and Seat Belts SECURE Airspeed 75 KIAS Wing Flaps 20° Selected Field FLY OVER (noting terrain and obstructions) Wing Flaps FULL (on final approach) Airspeed 70 KIAS STBY BATT Switch OFF MASTER Switch (ALT and BAT) OFF Doors UNLATCH PRIOR TO TOUCHDOWN	_
1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	Passenger Seat Backs MOST UPRIGHT POSITION Seats and Seat Belts SECURE Airspeed 75 KIAS Wing Flaps 20° Selected Field FLY OVER (noting terrain and obstructions) Wing Flaps FULL (on final approach) Airspeed 70 KIAS STBY BATT Switch OFF MASTER Switch (ALT and BAT) OFF Doors UNLATCH PRIOR TO TOUCHDOWN Touchdown SLIGHTLY TAIL LOW	_
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	Passenger Seat Backs MOST UPRIGHT POSITION Seats and Seat Belts SECURE Airspeed 75 KIAS Wing Flaps 20° Selected Field FLY OVER (noting terrain and obstructions) Wing Flaps FULL (on final approach) Airspeed 70 KIAS STBY BATT Switch OFF MASTER Switch (ALT and BAT) OFF Doors UNLATCH PRIOR TO TOUCHDOWN Touchdown SLIGHTLY TAIL LOW Mixture Control IDLE CUT OFF	-
1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	Passenger Seat Backs MOST UPRIGHT POSITION Seats and Seat Belts SECURE Airspeed 75 KIAS Wing Flaps 20° Selected Field FLY OVER (noting terrain and obstructions) Wing Flaps FULL (on final approach) Airspeed 70 KIAS STBY BATT Switch OFF MASTER Switch (ALT and BAT) OFF Doors UNLATCH PRIOR TO TOUCHDOWN Touchdown SLIGHTLY TAIL LOW	_

182TCLAUS-01

1. Radio..... TRANSMIT MAYDAY on 121.5 MHZ,

DITCHING

		(Give Location, Intentions and SQUAWK 7700)
-	2.	Heavy Objects (in baggage area) SECURE OR JETTISON
		(if possible)
	3.	Passenger Seat Backs MOST UPRIGHT POSITION
_	4.	Seats and Seat Belts SECURE
	5.	Wing Flaps
	6.	Power ESTABLISH 300 FT/MIN DESCENT AT 65 KIAS
-		NOTE
_		If no power is available, approach at 70 KIAS with Flaps UP or at 65 KIAS with Flaps 10°.
_	7.	Approach
		High Winds, Heavy Seas INTO THE WIND
-	8.	Light Winds, Heavy Swells PARALLEL TO SWELLS
		Cabin Doors
	9.	Touchdown LEVEL ATTITUDE AT ESTABLISHED RATE-OF-DESCENT
-	10.	Face CUSHION at touchdown with folded coat
	11.	ELT ACTIVATE
	12.	Airplane EVACUATE THROUGH CABIN DOORS
<u> </u>		If necessary, open window and flood cabin to equalize pressure so doors can be opened.

13. Life Vests and Raft INFLATE WHEN CLEAR OF AIRPLANE



FIRES

DURING START ON GROUND

1.	MAGNETOS Switch	
IF I	ENGINE STARTS	_
2. 3.	Power	_
IF	ENGINE FAILS TO START	
2. 3.	Throttle Control	_
4. 5. 6.	MAGNETOS Switch START (continue cranking) FUEL SELECTOR Valve PUSH DOWN and ROTATE TO OFF FUEL PUMP Switch OFF	_
7. 8.	MAGNETOS Switch	_
9 . 10.	MASTER Switch (ALT and BAT) OFF Engine	
11. 12.	Parking Brake	_
13.	Airplane EVACUATE	
14.	Fire EXTINGUISH using fire extinguisher, wool blanket, or dirt	-
15.	Fire Damage	
	or wiring before conducting another flight)	

182TCLAUS-01

E-8

ENGINE FIRE IN FLIGHT

1.	Mixture Control
2.	FUEL SELECTOR Valve PUSH DOWN and ROTATE to OFF
3.	FUEL PUMP Switch OFF
4.	STBY BATT Switch OFF
5 .	MASTER Switch (ALT and BAT) OFF
6.	Cabin Heat and Air OFF (except overhead vents)
7.	Airspeed
	(If fire is not extinguished, increase glide speed to find an airspeed, within airspeed limitations, which will provide an incombustible mixture)
8.	Forced Landing EXECUTE
	(Refer to EMERGENCY LANDING WITHOUT ENGINE POWER, page E-6)



ELECTRICAL FIRE IN FLIGHT

1.	STBY BATT Switch OFF	
2.	MASTER Switch (ALT and BAT) OFF	
3.	Vents/Cabin Air/Heat	
4.	Fire Extinguisher ACTIVATE (if available)	
5.	AVIONICS Switch (BUS 1 and BUS 2) OFF	
6.	All Other Switches (except MAGNETOS switch) OFF	

WARNING

AFTER THE FIRE EXTINGUISHER HAS BEEN USED, MAKE SURE THAT THE FIRE IS EXTINGUISHED BEFORE EXTERIOR AIR IS USED TO REMOVE SMOKE FROM THE CABIN.

7.	Vents/Cabin Air/Heat OPEN	
	(When sure that fire is completely extinguished)	

IF FIRE HAS BEEN EXTINGUISHED AND ELECTRICAL POWER IS NECESSARY FOR CONTINUED FLIGHT TO NEAREST SUITABLE AIRPORT OR LANDING AREA

8.	Circuit Breakers CHECK for OPEN circuit(s), DO NOT RESET
9.	MASTER Switch (ALT and BAT) ON
10.	AVIONICS Switch (BUS 1)
11.	AVIONICS Switch (BUS 2)



E-10 182TCLAUS-01

CABIN FIRE

1.	STBY BATT Switch	. OFF
2.	MASTER Switch (ALT and BAT)	. OFF
3.	Vents/Cabin Air/Heat	OSED
	(to avoid	drafts)
4.	Fire Extinguisher ACT	IVATE
	(if ava	ilable)

WARNING

AFTER THE FIRE EXTINGUISHER HAS BEEN USED, MAKE SURE THAT THE FIRE IS EXTINGUISHED BEFORE EXTERIOR AIR IS USED TO REMOVE SMOKE FROM THE CABIN.

- 5. Vents/Cabin Air/Heat.....OPEN (When sure that fire is completely extinguished)
- 6. Land the airplane as soon as possible to inspect for damage.

WING FIRE

1.	LAND and TAXI Light Switches OF	F
2.	NAV Light SwitchOF	F
3.	STROBE Light Switch OF	F
4.	PITOT HEAT SwitchOF	F

NOTE

Perform a sideslip to keep the flames away from the fuel tank and cabin. Land as soon as possible using flaps only as required for final approach and touchdown.

ICING **INADVERTENT ICING ENCOUNTER DURING FLIGHT** 1. PITOT HEAT Switch......ON 2. Turn back or change altitude to obtain an outside air temperature that is less conducive to icing. 3. Pull cabin heat control full out and rotate defroster control clockwise to obtain maximum defroster airflow. 4. Increase engine speed to minimize ice build-up on propeller blades. If excessive vibration is noted, momentarily reduce engine speed to 2200 RPM with the propeller control, and then rapidly move the control forward. **NOTE** Cycling the RPM flexes the propeller blades and high RPM increases centrifugal force, causing ice to shed more rapidly. 5. Watch for signs of induction air filter icing. A loss of manifold pressure could be caused by ice blocking the air intake filter. Adjust the throttle as necessary to hold manifold pressure. Adjust mixture, as necessary, for any change in power settings. 6. Plan a landing at the nearest airport. With an extremely rapid ice build-up, select a suitable "off airport" landing site. 7. With an ice accumulation of 0.25 inch or more on the wing leading edges, be prepared for significantly higher power requirements, higher approach and stall speeds, and a longer landing roll. 8. Leave wing flaps retracted. With a severe ice build-up on the horizontal tail, the change in wing wake airflow direction caused by wing flap extension could result in a loss of elevator effectiveness. 9. Open left window and, if practical, scrape ice from a portion of the windshield for visibility in the landing approach. 10. Perform a landing approach using a forward slip, if necessary, for improved visibility. 11. Approach at 80 to 90 KIAS depending upon the amount of the accumulation. Perform a landing in level attitude. 13. Missed approaches should be avoided whenever possible because of severely reduced climb capability.

Model 182T NAV III Avionics Pilots' Checklist

STATIC SOURCE BLOCKAGE (ERRONEOUS INSTRUMENT READING SUSPECTED)

1.	ALT STATIC AIR Valve
2.	CABIN HT and CABIN AIR Knobs PULL ON
3.	Vents
4.	Airspeed Refer to the POH, Section 5,
	Figure 5-1 (Sheet 2) Airspeed Calibration, Alternate Static Source.
5.	Altitude Refer to the POH, Section 5,
	Figure 5-2 Altimeter Correction, Alternate Static Source

EXCESSIVE FUEL VAPOR

FUEL FLOW STABILIZATION PROCEDURES

(If flow fluctuations of 1 GPH or more, or power surges occur.)

1.	FUEL PUMP Switch	
2.	Mixture	ADJUST AS NECESSARY
		(for smooth engine operation)
3.	Fuel Selector Valve	SELECT OPPOSITE TANK
		(if vapor symptoms continue)
4.	FUEL PUMP Switch	
		(after fuel flow has stabilized)

A	ВМ	IORMAL LANDINGS	_
L/	۸NC	DING WITH A FLAT MAIN TIRE	
	1. 2.	Approach	_
	3.4.	Touchdown	_
L#	١NE	DING WITH A FLAT NOSE TIRE	
1	1. 2.	Approach	
		120 to 140 KIAS - Flaps UP - 10° 100 to 120 KIAS - Flaps 10° - 20° Below 100 KIAS - Flaps FULL	
į.	3.	Touchdown	_
	4.	When nosewheel touches down, maintain full up elevator as airplane slows to stop.	
_	. –	CTDICAL DOWED SUDDLY SYSTEM	
		CTRICAL POWER SUPPLY SYSTEM FUNCTIONS	_
1		IS VOLTS MORE THAN 32 OR M BAT AMPS MORE	
TH	A	I 40	
	1.	MASTER Switch (ALT Only) OFF	
		NOTE	_
		NOTE The Main Battery supplies electrical power to the Main and Essential Buses until M BUS VOLTS decreases below 20 volts. When M BUS VOLTS falls below 20 volts, the Standby	_
Total de		NOTE The Main Battery supplies electrical power to the Main and Essential Buses until M BUS VOLTS decreases below 20	_
Top.		NOTE The Main Battery supplies electrical power to the Main and Essential Buses until M BUS VOLTS decreases below 20 volts. When M BUS VOLTS falls below 20 volts, the Standby Battery System will automatically supply electrical power to	

E-14

M BUS VOLTS MORE THAN 32 OR M BAT AMPS MORE **THAN 40 (Continued)**

-	2.	Electrical Load	
yearen		f. NAV Lights	OFF
		NOTE	
_		Select COM1 MIC and NAV1 on the the active frequency before setting A' If COM2 MIC and NAV2 are selecte 2 is set to off, the COM and NAV race	VIONICS BUS 2 to OFF. d when AVIONICS BUS
·		`	
-		NOTE	
_		When AVIONICS BUS 2 is set to OFF not operate:	-, the following items will
_		COMM 2 NAV	A 1347 Audio Panel / 2 J 1040 MFD
_		k. AVIONICS Switch (BUS 2)	(KEEP ON if in clouds)

(Continued Next Page)

182TCLAUS-01

E-15

M BUS VOLTS MORE THAN 32 OR M BAT AMPS MORE THAN 40 (Continued)	_
3. Land as soon as practical.	
NOTE	_
Make sure a successful landing is possible before extending flaps. The flap motor is a large electrical load during operation.	~
LOW VOLTS ANNUNCIATOR COMES ON BELOW 1000 RPM	_
Throttle Control	
LOW VOLTS ANNUNCIATOR REMAINS ON AT 1000 RPM	
 Authorized maintenance personnel must do electrical system inspection prior to next flight. 	_
LOW VOLTS ANNUNCIATOR COMES ON OR DOES NOT GO OFF AT HIGHER RPM	
MASTER Switch (ALT Only) Alternator Circuit Breaker (ALT FIELD) MASTER Switch (ALT and BAT) Low Voltage Annunciator (LOW VOLTS) CHECK 27.5 V minimum M BAT AMPS CHECK CHARGING (+)	_
IF LOW VOLTS ANNUNCIATOR REMAINS ON	
7. MASTER Switch (ALT Only) OFF	
NOTE	
The Main Battery supplies electrical power to the Main and Essential Buses until M BUS VOLTS decreases below 20 volts. When M BUS VOLTS falls below 20 volts, the Standby Battery System will automatically supply electrical power to the Essential Bus for at least 30 minutes.	_
(Continued Next Page)	

E-16 182TCLAUS-01

	LOW VOLTS ANNUNCIATOR REMAINS ON Continued)
8.	Electrical Load
_	f. NAV Lights OFF g. STROBE Lights OFF h. CABIN PWR 12V OFF
	NOTE
_	Select COM1 MIC and NAV1 on the audio panel and tune to the active frequency before setting AVIONICS BUS 2 to OFF. If COM2 MIC and NAV2 are selected when AVIONICS BUS 2 is set to off, the COM and NAV radios cannot be tuned.
~	i. COM1 and NAV1TUNE TO ACTIVE FREQUENCY j. COM1 MIC and NAV1SELECT (COM2 MIC and NAV2 will be inoperative once AVIONICS BUS 2 is selected to OFF)
_	NOTE
_	When AVIONICS BUS 2 is set to OFF, the following items will not operate:
	KAP 140 Autopilot GMA 1347 Audio Panel COMM 2 NAV 2 GTX 33 Transponder GDU 1040 MFD
_	k. AVIONICS Switch (BUS 2) OFF
- 9.	(KEEP ON if in clouds) Land as soon as practical.
	NOTE
_	Make sure a successful landing is possible before extending flaps. The flap motor is a large electrical load during operation.

AIR DATA SYSTEM FAILURE **RED X - PFD AIRSPEED INDICATOR** 1. ADC/AHRS Circuit Breakers CHECK IN (ESS BUS and AVN BUS 1) If open, reset (close) circuit breaker. If circuit breaker opens again, do not reset. 2. Standby Airspeed Indicator USE FOR AIRSPEED INFORMATION **RED X - PFD ALTITUDE INDICATOR** 1. ADC/AHRS Circuit Breakers . CHECK IN (ESS BUS and AVN BUS 1) If open, reset (close) circuit breaker. If circuit breaker opens again, do not reset. 2. Standby Altimeter CHECK current barometric pressure SET. USE FOR ALTITUDE INFORMATION. ATTITUDE AND HEADING REFERENCE SYSTEM (AHRS) FAILURE **RED X - PFD ATTITUDE INDICATOR** (ESS BUS and AVN BUS 1) If open, reset (close) circuit breaker. If circuit breaker opens again, do not reset. 2. Standby Attitude Indicator. USE FOR ATTITUDE INFORMATION **RED X - HORIZONTAL SITUATION INDICATOR (HSI)** (ESS BUS and AVN BUS 1) If open, reset (close) circuit breaker. If circuit breaker opens again, do not reset. 2. Non-Stabilized Magnetic Compass USE FOR HEADING INFORMATION E-18 182TCLAUS-01

DISPLAY COOLING ADVISORY PFD1 COOLING OR MFD1 COOLING ANNUNCIATOR(S) 1. Cabin Heat (CABIN HT)......REDUCE (minimum preferred) (Feel for airflow from screen on glareshield) IF FORWARD AVIONICS FAN HAS FAILED 3. STBY BATT Switch OFF (Unless needed for emergency power) IF PFD1 COOLING OR MFD1 COOLING ANNUNCIATOR DOES NOT GO OFF WITHIN 3 MINUTES OR IF BOTH PFD1 COOLING AND MFD1 COOLING ANNUNCIATORS COME ON 3. STBY BATT Switch OFF (Land as soon as practical) **VACUUM SYSTEM FAILURE** LOW VACUUM ANNUNCIATOR COMES ON CAUTION IF VACUUM POINTER IS OUT OF THE GREEN ARC DURING FLIGHT OR GYRO FLAG IS SHOWN ON THE STANDBY AITHTUDE INDICATOR, THE STANDBY ATTITUDE INDICATOR MUST NOT BE USED FOR ATTITUDE INFORMATION Uvacuum Indicator (VAC)...... CHECK EIS SYSTEM page (Make sure vacuum pointer is in green arc limits) 182TCLAUS-01 E-19

MAXIMUM GLIDE

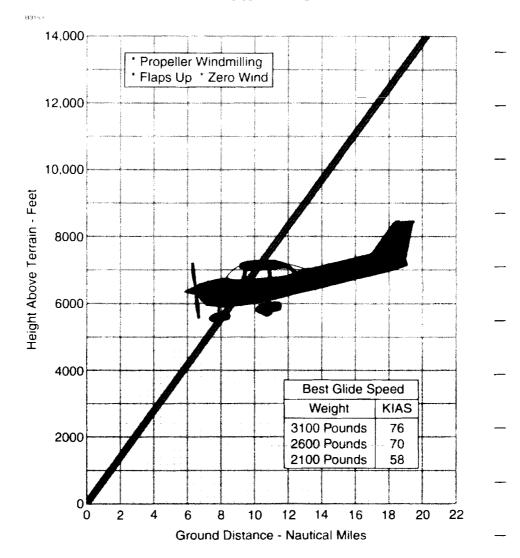


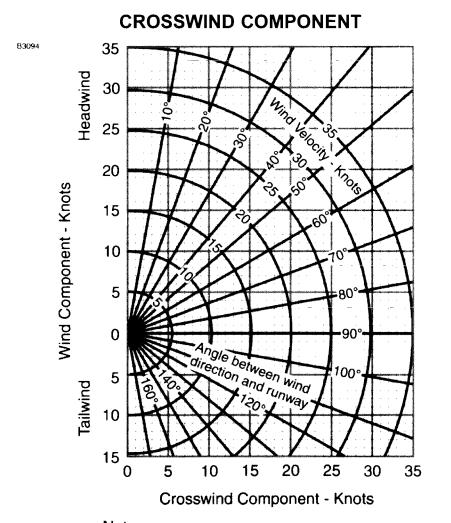
Figure 2*

E-20 182TCLAUS-01

PERFORMANCE

T	Δ	R	1	F	0	F	C	\cap	N	ΙΤ	F	N	17	ΓS
	_		_	_	_		_	_			_		4 1	

	CROSSWIND COMPONENTP-2
_	TAKEOFF
	SHORT FIELD TAKEOFF DISTANCE AT 3100 POUNDSP-3
	SHORT FIELD TAKEOFF DISTANCE AT 2700 POUNDSP-4
_	SHORT FIELD TAKEOFF DISTANCE AT 2300 POUNDSP-5
	CRUISE
_	CRUISE PERFORMANCE PRESSURE ALTITUDE SEA LEVELP-6
	CRUISE PERFORMANCE PRESSURE ALTITUDE 2000 FEETP-8
	CRUISE PERFORMANCE PRESSURE ALTITUDE 4000 FEETP-10
	CRUISE PERFORMANCE PRESSURE ALTITUDE 6000 FEETP-12
	CRUISE PERFORMANCE PRESSURE ALTITUDE 8000 FEETP-13
	CRUISE PERFORMANCE PRESSURE ALTITUDE 10,000 FEETP-14
_	CRUISE PERFORMANCE PRESSURE ALTITUDE 12,000 FEETP-15
	CRUISE PERFORMANCE PRESSURE ALTITUDE 14,000 FEETP-16
_	LANDING
	SHORT FIELD LANDING DISTANCE AT 2950 POUNDSP-17
	DENSITY ALTITUDE CHARTP-18



Note Maximum demonstrated crosswind velocity is 15 knots (not a limitation).

Figure 3

P-2

SHORT FIELD TAKEOFF DISTANCE AT 3100 POUNDS

CONDITIONS:

- Flaps 20°
- 2400 RPM, Full Throttle and Mixture Set Prior to Brake Release
- · Paved, Level, Dry Runway
- · Cowl Flaps Open
- Lift Off: 49 KIAS
- Speed at 50 Feet: 58 KIAS
- · Zero Wind

	0°C		10	°C	20	°C	30	°C	40°C	
Pressui Altitud in Fee	e Grnd		Grnd Roll	Total Ft to Clear 50 Ft Obst						
S.L.	715	1365	765	1460	825	1570	885	1680	945	1800
1000	775	1490	835	1600	900	1720	965	1845	1030	1980
2000	850	1635	915	1760	980	1890	1055	2035	1130	2190
3000	925	1800	995	1940	1070	2090	1150	2255	1235	2435
4000	1015	1990	1090	2150	1175	2325	1260	2515	1355	2720
5000	1110	2210	1195	2395	1290	2595	1385	2820	1485	3070
6000	1220	2470	1315	2690	1415	2930	1520	3200	1635	3510
7000	1340	2785	1445	3045	1560	3345	1675	3685		
8000	1480	3175	1595	3500	1720	3880				

NOTE

- Short field technique as specified in NORMAL PROCEDURES page N-17.
- Prior to takeoff, the mixture should be leaned to the Maximum Power Fuel Flow placard value in a full throttle, static runup.
- Decrease distances 10% for each 9 knots headwind. For operation with tail winds up to 10 knots, increase distances by 10% for each 2 knots
- For operation on dry, grass runway, increase distances by 15% of the "ground roll" figure.

SHORT FIELD TAKEOFF DISTANCE AT 2700 POUNDS

CONDITIONS:

- Flaps 20°
- 2400 RPM, Full Throttle and Mixture Set Prior to Brake Release
- · Paved, Level, Dry Runway
- Cowl Flaps Open
- Lift Off: 45 KIASSpeed at 50 Feet: 54 KIAS
- Speed at 50 Feet:Zero Wind

Vind			
			_

	0°C		10	°C	20	°C	30	°C	40°C	
Pressure Altitude in Feet	Grnd Roll	Total Ft to Clear 50 Ft Obst								
S.L.	520	995	560	1065	600	1135	645	1215	690	1295
1000	565	1080	610	1155	655	1235	700	1320	750	1410
2000	615	1180	665	1260	710	1350	765	1445	820	1545
3000	675	1285	725	1380	775	1480	835	1585	895	1695
4000	735	1410	790	1510	850	1625	910	1740	975	1870
5000	805	1550	865	1665	930	1790	1000	1920	1070	2065
6000	880	1705	950	1840	1020	1980	1095	2135	1175	2300
7000	965	1890	1040	2040	1120	2205	1200	2380	1290	2575
8000	1060	2100	1145	2275	1230	2465	1320	2675	1420	2910

NOTE

- Short field technique as specified in NORMAL PROCEDURES page N-17.
- Prior to takeoff, the mixture should be leaned to the Maximum Power Fuel Flow placard value in a full throttle, static runup.
- Decrease distances 10% for each 9 knots headwind. For operation with tail winds up to 10 knots, increase distances by 10% for each 2 knots.
- For operation on dry, grass runway, increase distances by 15% of the "ground roll" figure.

P-4

Model 182T **NAV III Avionics** Pilots' Checklist

SHORT FIELD TAKEOFF DISTANCE AT 2300 POUNDS

CONDITIONS:

Flaps 20°

2400 RPM, Full Throttle and Mixture Set Prior to Brake Release

· Paved, Level, Dry Runway

· Cowl Flaps Open

· Lift Off: 42 KIAS Speed at 50 Feet: 50 KIAS

Zero Wind

	0°C		10°C		20	20°C		°C	40°C	
Pressure Altitude in Feet	Grnd Roll	Total Ft to Clear 50 Ft Obst								
S.L.	365	705	390	750	420	800	450	850	480	905
1000	395	765	425	815	455	870	490	925	520	985
2000	430	830	460	885	495	940	530	1005	565	1070
3000	470	900	505	960	540	1025	580	1090	620	1165
4000	510	980	550	1045	590	1115	630	1190	675	1270
5000	555	1065	600	1140	640	1220	690	1305	735	1390
6000	610	1165	655	1250	700	1335	755	1430	805	1530
7000	665	1275	715	1370	770	1470	825	1570	885	1685
8000	730	1405	785	1510	845	1620	905	1735	970	1865

NOTE

- Short field technique as specified in NORMAL PROCEDURES page N-17.
- Prior to takeoff, the mixture should be leaned to the Maximum Power Fuel Flow placard value in a full throttle, static runup.
- Decrease distances 10% for each 9 knots headwind. For operation with tail winds up to 10 knots, increase distances by 10% for each 2 knots.
- For operation on dry, grass runway, increase distances by 15% of the "ground roll" figure.

182TCLAUS-01

P-5

CRUISE PERFORMANCE PRESSURE ALTITUDE SEA LEVEL

CONDITIONS: 3100 Pounds Recommended Lean Mixture Cowl Flaps Closed

		ı	°C BELC			TANDAF IPERAT			°C ABO		_
RPM	MP	% BPH	KTAS	GPH	% BPH	KTAS	GPH	% BPH	KTAS	GPH	
2400	27										
1	26							82	140	14.3	
	25	84	134	14.5	81	136	14.0	78	138	13.5	İ
1	24	79	132	13.6	76	133	13.2	74	135	12.8	l _
	23	74	129	12.8	71	130	12.4	69	131	12.1	
ì	22	69	126	12.1	67	127	11.7	65	127	11.4	
	21	65	122	11.4	62	122	11.1	60	123	10.8	İ
	20	60	118	10.7	58	118	10.4	56	118	10.2	i –
											l
2300	27							84	141	14.5	
ł	26				82	137	14.2	79	139	13.7	! _
	25	80	133	13.9	78	135	13.4	75	136	13.0	ŀ
	24	76	130	13.2	73	132	12.7	71	132	12.3	
Ì	23	71	127	12.4	69	128	12.0	67	129	11.7	
	22	67	124	11.7	65	124	11.4	62	125	11.1	! -
	21	62	120	11.1	60	120	10.8	58	121	10.5	
	20	58	116	10.4	56	116	10.2	54	116	9.9	
]											
2200	27				83	137	14.4	80	139	13.9	İ
1	26	82	133	14.2	79	135	13.6	76	136	13.2	ĺ
	25	77	131	13.4	75	133	12.9	72	134	12.6	i
	24	73	129	12.7	71	130	12.3	68	130	11.9	_
	23	69	126	12.0	66	126	11.7	64	126	11.3	i
	22	65	122	11.4	62	122	11.1	60	123	10.8	
	21	60	1,18	10.8	58	119	10.5 _	. 56 .	_ 118	10.2	_
	20	56	114	10.2	54	114	9.9	52	114	9.7	i

NOTE

- Maximum cruise power is 80% MCP. Those powers above that value in the table are for interpolation purposes only.
- For best economy, operate at peak EGT.

P-6

CRUISE PERFORMANCE PRESSURE ALTITUDE SEA LEVEL (Continued)

CONDITIONS: 3100 Pounds

Recommended Lean Mixture Cowl Flaps Closed

			°C BELC			TANDAF IPERAT			°C ABO	
		%			%			%		
RPM	MP	BPH	KTAS	GPH	BPH	KTAS	GPH	BPH	KTAS	GPH
2100	27	82	133	14.2	79	135	13.7	76	136	13.2
	26	78	131	13.4	75	133	13.0	73	134	12.6
	25	74	129	12.8	71	130	12.4	69	130	12.0
	24	70	126	12.1	67	127	11.8	65	127	11.4
	23	66	123	11.5	63	123	11.2	61	123	10.9
1	22	61	119	10.9	59	120	10.6	57	120	10.4
	21	57	115	10.4	55	116	10.1	54	115	9.9
	20	53	111	9.8	51	111	9.6	50	111	9.3
2000	27	78	131	13.4	75	133	13.0	72	134	12.6
	26	74	129	12.8	71	130	12.4	69	131	12.0
	25	70	126	12.2	67	127	11.8	65	127	11.5
	24	66	123	11.6	64	124	11.3	62	124	11.0
	23	62	120	11.0	60	120	10.7	58	121	10.5
1	22	58	116	10.5	56	117	10.2	54	116	10.0
	21	54	113	10.0	53	112	9.7	51	112	9.5
	20	51	108	9.4	49	108	9.2	47	108	9.0

NOTE

- Maximum cruise power is 80% MCP. Those powers above that value in the table are for interpolation purposes only.
- For best economy, operate at peak EGT.

CRUISE PERFORMANCE PRESSURE ALTITUDE 2000 FEET

CONDITIONS: 3100 Pounds Recommended Lean Mixture Cowl Flaps Closed

		STAN	°C BELC		TEM	TANDAF IPERAT			°C ABO	
RPM _	MP	% BPH	KTAS	GPH	% BPH	KTAS	GPH	% BPH	KTAS	GPH
2400	26									
	25				83	140	14.4	80	142	13.9
	24	81	136	14.1	79	138	13.6	76	139	13.2
	23	77	133	13.3	74	134	12.8	71	135	12.4
	22	72	130	12.5	69	131	12.1	67	131	11.7
	21	67	126	11.8	65	126	11.4	63	127	11.1
	20	62	122	11.0	60	122	10.7	58	122	10.5
2300	26							82	143	14.2
	25	83	137	14.4	80	139	13.9	77	140	13.4
	24	78	134	13.6	76	136	13.1	73	137	12.7
	23	74	131	12.8	71	133	12.4	69	133	12.0
	22	69	128	12.1	67	128	11.7	65	129	11.4
	21	65	124	11.4	62	124	11.1	60	125	10.8
	20	60	120	10.7	58	120	10.5	56	120	10.2
							-	-		- !
2200	26				81	139	14.1	78	140	13.6
	25	80	135	13.8	77	137	13.3	74	138	12.9
	24	75	132	13.1	73	134	12.6	70	134	12.3
	23	71	129	12.4	69	130	12.0	66	130	11.6
	22	67	126	11.7	64	126	11.4	62	127	11.0
	21	62	122	11.1	60	122	10.8	58	122	10.5
	20	58	118	10.5	56	118	10.2	54	118	9.9

NOTE

- Maximum cruise power is 80% MCP. Those powers above that value in the table are for interpolation purposes only.
- For best economy, operate at peak EGT.

P-8

CRUISE PERFORMANCE PRESSURE ALTITUDE 2000 FEET (Continued)

CONDITIONS: 3100 Pounds Recommended Lean Mixture Cowl Flaps Closed

			°C BELC		_	TANDAF 1PERAT			°C ABO	
DDM	МВ	% BPH	KTAS	GPH	% BPH	KTAS	GPH	% BPH	KTAS	GPH
RPM	MP									
2100	26	80	135	13.9	77	137	13.4	75	138	12.9
	25	76	133	13.1	73	134	12.7	71	134	12.3
	24	72	130	12.5	69	131	12.1	67	131	11.7
	23	68	127	11.8	65	127	11.5	63	127	11.2
	22	64	123	11.2	61	123	10.9	59	124	10.6
	21	59	119	10.6	57	119	10.4	55	119	10.1
	20	55	115	10.1	53	115	9.8	52	115	9.6
2000	26	76	133	13.1	73	134	12.7	71	134	12.3
	25	72	130	12.5	69	131	12.1	67	131	11.8
	24	68	127	11.9	66	127	11.5	64	128	11.2
	23	64	124	11.3	62	124	11.0	60	124	10.7
	22	60	120	10.8	58	120	10.5	56	120	10.2
	21	56	116	10.2	54	116	10.0	53	116	9,7
	20	52	112	9.7	51	112	9.4	4 9	111	9.2

NOTE

- Maximum cruise power is 80% MCP. Those powers above that value in the table are for interpolation purposes only.
- For best economy, operate at peak EGT.

CRUISE PERFORMANCE PRESSURE ALTITUDE 4000 FEET

CONDITIONS: 3100 Pounds Recommended Lean Mixture Cowl Flaps Closed

			°C BELO			TANDAF IPERAT		Ï	°C ABO	
RPM	MP	% BPH	KTAS	GPH	% BPH	KTAS	GPH	% BPH	KTAS	GPH
2400	25							83 -	146	⁻ 14.4
	24	84	140	14.6	81	142	14.0	78	143	13.6
	23	79	138	13.7	76	139	13.2	74	139	12.8
	22	74	134	12.9	72	135	12.5	69	135	12.1
	21	70	130	12.1	67	131	11.7	65	131	11.4
	20	65	126	11.4	62	126	11.1	60	126	10.8
1										
2300	25				83	143	14.3	80	144	13.8
1	24	81	138	14.0	78	140	13.5	75	141	13.1
Ì	23	76	135	13.2	74	137	12.8	71	137	12.4
	22	72	132	12.5	69	133	12.1	67	133	11.7
	21	67	128	11.7	65	128	11.4	62	129	11.1
	20	62	124	11.1	60	124	10.7	58	124	10.5
2200	25	82	139	14.2	79	141	13.7	77	142	13.2
	24	78	136	13.4	75	138	13.0	72	138	12.6
	23	73	133	12.7	71	134	12.3	68	134	11.9
	22	69	130	12.0	66	130	11.7	64	130	11.3
	21	65	126	11.4	62	126	11.0	60	126	10.7
	20	60	122	10.7	58	122	10.4	56_	121	10.2

NOTE

- Maximum cruise power is 80% MCP. Those powers above that value in the table are for interpolation purposes only.
- For best economy, operate at peak EGT.

P-10

CRUISE PERFORMANCE PRESSURE ALTITUDE 4000 FEET (Continued)

CONDITIONS: 3100 Pounds Recommended Lean Mixture Cowl Flaps Closed

		_	°C BELC		_	TANDAF 1PERAT		_	°C ABO	
DDM	140	% BPH	KTAS	GPH	% BPH	KTAS	GPH	% BPH	KTAS	GPH
RPM	MP	D1 11	KIAS	GPH	DI 11	KIAS	GPH	Dili	KIAS	GPH
2100	25	78	137	13.5	75	138	13.0	73	138	12.6
	24	74	134	12.8	71	135	12.4	69	135	12.0
	23	70	131	12.2	67	131	11.8	65	131	11.4
	22	66	127	11.5	63	127	11.2	61	127	10.9
1	21	61	123	10.9	59	123	10.6	57	123	10.3
	20	57	119	10.3	55	119	10.1	53	118	9.8
2000	25	74	134	12.8	71	135	12.4	69	135	12.1
	24	70	131	12.2	68	131	11.8	65	132	11.5
	23	66	127	11.6	64	128	11.3	62	128	11.0
	22	62	124	11.0	60	124	10.7	58	124	10.4
	21	58	120	10.5	56	120	10.2	54	120	9.9
	20	54	116	9.9	52	115	9.7	51	115	9.4

NOTE

- Maximum cruise power is 80% MCP. Those powers above that value in the table are for interpolation purposes only.
- For best economy, operate at peak EGT.

CRUISE PERFORMANCE PRESSURE ALTITUDE 6000 FEET

CONDITIONS:
3100 Pounds
Recommended Lean Mix

Recommended Lean Mixture Cowl Flaps Closed

			°C BELC			TANDAF 1PERAT			°C ABO'	
RPM	MP	% BPH	KTAS	GPH	% BPH	KTAS	GPH	% BPH	KTAS	GPH
2400	23	82	142	14.2	79	143	13.6	76	144	13.2
	22	77	138	13.3	74	139	12.8	72	139	12.4
	21	72	135	12.5	69	135	12.1	67	135	11.7
	20	67	130	11.7	65	130	11.4	62	131	11.1
	19	62	126	11.0	60	126	10.7	58	125	10.4
2300	23	79	140	13.6	76	141	13,1	73	141	12.7
	22	74	136	12.8	71	137	12.4	69	137	12.0
	21	69	132	12.1	67	133	11.7	64	133	11.4
	20	65	128	11.4	62	128	11.0	60	128	10.7
	19	60	124	10.7	58	123	10.4	56	123	10.1
2200	23	76	137	13.1	73	138	12.6	70	138	12.3
	22	71	134	12.4	69	134	12.0	66	135	11.6
	21	67	130	11.7	64	130	11.3	62	130	11.0
	20	62	126	11.0	60	126	10.7	58	125	10.4
	19	58	121	10.4	56	121	10.1	54	120	9.9
2100	23	72	135	12.5	69	135	12.1	67	135	11.7
	22	68	131	11.8	65	131	11.5	63	131	11.1
	21	63	127	11.2	61	127	10.9	59	127	10.6
	20	59	123	10.6	57	122	10.3	55	122	10.0
	19	55	118	10.0	53	118	9.8	51	117	9.5
2000	23	68	131	11.9	66	132	11.5	63	132	11.2
	22	64	127	11.3	62	128	11.0	60	128	10.7
	21	60	124	10.7	58	123	10.4	56	123	10.2
	20	56	119	10.2	54	119	9.9	52	118	9.7
	19	52	115	9.6	50	114	9.4	48	113	9.1

NOTE

 Maximum cruise power is 80% MCP. Those powers above that value in the table are for interpolation purposes only.

For best economy, operate at peak EGT.

P-12 182TCLAUS-01

CRUISE PERFORMANCE PRESSURE ALTITUDE 8000 FEET

CONDITIONS: 3100 Pounds Recommended Lean Mixture Cowl Flaps Closed

			°C BELC		TEM	TANDAF 1PERAT	-	_	°C ABO	
RPM	MP	BPH	KTAS	GPH		KTAS	GPH	% BPH	KTAS	GPH
2400	21	74	139	12.9	72	139	12.5	69	140	12.1
	20	69	134	12.1	67	135	11.7	65	135	11.4
	19	64	130	11.4	62	130	11.0	60	130	10.7
	18	59	125	10.6	57	124	10.3	55	124	10.1
2300	21	72	136	12.5	69	137	12.0	67	137	11.7
	20	67	132	11.7	64	132	11.3	62	132	11.0
	19	62	128	11.0	60	127	10.7	58	127	10.4
	18	57	122	10.3	55	122	10.1	53	121	9.8
2200	21	69	134	12.0	66	134	11.6	64	134	11.3
	20	64	130	11.3	62	130	11.0	60	129	10.7
	19	60	125	10.7	57	125	10.4	55	124	10.1
	18	55	120	10.1	53	119	9.8	51	119	9.5
2100	21	65	131	11.5	63	131	11.2	61	131	10.8
	20	61	127	10.9	59	126	10.6	57	126	10.3
	19	57	122	10.3	55	121	10.0	53	121	9.7
	18	52	117	9.7	50	. 1.16 .	. 9.4 .	_ 49 .	_ 115 _	_ 9.2
2000	21	62	128	11.0	60	127	10.7	58	127	10.4
2000	20	58	123	10.4	56	123	10.7	54	122	9.9
	19	54	118	9.9	52	118	9.6	50	117	9.4

NOTE

- Maximum cruise power is 80% MCP. Those powers above that value in the table are for interpolation purposes only.
- For best economy, operate at peak EGT.

CRUISE PERFORMANCE PRESSURE ALTITUDE 10,000 FEET

CONDITIONS: 3100 Pounds Recommended Lean Mixture Cowl Flaps Closed

		l	°C BELC		TEN	TANDAF IPERAT			°C ABO NDARD 1		
RPM	MP	% BPH	KTAS	GPH	% BPH	KTAS	GPH	% BPH	KTAS	GPH	
2400	20	72	139	12.5	69	139	12.1	67	139	11.7	
	19	67	134	11.7	64	134	11.3	62	134	11.0	
	18	62	129	11.0	59	129	10.6	57	128	10.3	
		-		-		-	-	-		-	l
2300	21	74	141	12.8	71	141	12.4	69	142	12.0	
	20	69	136	12.1	66	137	11.7	64	136	11.3	
	19	64	132	11.3	62	132	11.0	60	131	10.7	
	18	59	126	10.6	57	126	10.3	55	125	10.1	
2200	20	66	134	11.6	64	134	11.3	62	133	10.9	
	19	62	129	11.0	59	129	10.6	57	128	10.4	
	18	57	124	10.3	55	123	10.0	53	123	9.8	
2100	20	63	131	11.2	61	130	10.8	59	130	10.5	
	19	59	126	10.5	56	125	10.2	54	125	10.0	
	18	54	121	9.9	52	120	9.7	50	119	9.4	
		-	-	-			-	-		-	
2000	20	60	127	10.7	58	127	10.4	55	126	10.1	l
	19	56	122	10.1	54	122	9.8	52	121	9.6	ĺ
	18	51	117	9.6	50	116	9.3	48	115	9.0	

NOTE

- Maximum cruise power is 80% MCP. Those powers above that value in the table are for interpolation purposes only.
- For best economy, operate at peak EGT.

P-14 182TCLAUS-01

CRUISE PERFORMANCE PRESSURE ALTITUDE 12,000 FEET

CONDITIONS: 3100 Pounds Recommended Lean Mixture Cowl Flaps Closed

		l	°C BELC			TANDAF 1PERAT			°C ABO'	
RPM	MP	% BPH	KTAS	GPH	% BPH	KTAS	GPH	. % BPH	KTAS	- GPH
2400	18	64	133	11.3	61	133	10.9	59	133	10.6
	17	59	127	10.5	56	127	10.2	54	126	10.0
	16	53	121	9.8	51	120	9.6	50	119	9.3
2300	18	61	131	10.9	59	130	10.6	57	130	10.3
ł	17	56	125	10.2	54	124	10.0	52	123	9.7
	16	52	118	9.6	50	118	9.3	48	117	9.0
2200	18	59	128	10.6	57	128	10.3	55	127	10.0
	17	54	122	9.9	52	121	9.7	50	121	9.4
2100	18	56	125	10.2	54	124	9.9	52	123	- 9.6
1 2100	17	52	119	9.6	50	118	9.3	48	117	9.1
2000	19	57	126	10.4	55	125	10.1	53	125	9.8
	18	53	121	9.8	51	120	9.5	49	119	9.3

NOTE

- Maximum cruise power is 80% MCP. Those powers above that value in the table are for interpolation purposes only.
- For best economy, operate at peak EGT.

CRUISE PERFORMANCE PRESSURE ALTITUDE 14,000 FEET

CONDITIONS: 3100 Pounds Recommended Lean Mixture Cowl Flaps Closed

				°C BELO		_	TANDAF 1PERAT			°C ABO'	. –
l	RPM	MP	% BPH	KTAS	GPH	% BPH	KTAS	GPH	% BPH	KTAS	- GPH
	2400	16	56	126	10.1	53	125	9.8	51	124	9.6
		15	50	118	9.4	48	117	9.1	47	116	8.9
	2300	16	53	123	9.8	51	122	9.6	50	121	9.3
	2200	16	51	120	9.6	4 9	119	9.3	48	118	9.0
	2100	16	49	116	9.2	47	115	8.9	45	114	8.7

NOTE

- Maximum cruise power is 80% MCP. Those powers above that value in the table are for interpolation purposes only.
- For best economy, operate at peak EGT.

P-16 182**T**CLAUS-01

SHORT FIELD LANDING DISTANCE AT 2950 POUNDS

CONDITIONS:

- Flaps FULL
- Maximum Braking
- · Zero Wind

- Power Off
- · Paved, Level, Dry Runway
- · Speed at 50 Feet: 60 KIAS

	0°	Ď	10	°C	20	°C	30	°C	40	°C
Pressure Altitude in Feet	Grnd Roll	Total Ft to Clear 50 Ft Obst	Grnd Roll	Total Ft to Clear 50 Ft Obst	Grnd Roll	Total Ft to Clear 50 Ft Obst	Grnd Roll	Total Ft to Clear 50 Ft Obst	Grnd Roll	Total Ft to Clear 50 Ft Obst
S.L.	560	1300	580	1335	600	1365	620	1400	640	1435
1000	580	1265	600	1365	620	1400	645	1440	665	1475
2000	600	1370	625	1405	645	1440	670	1480	690	1515
3000	625	1410	645	1445	670	1485	695	1525	715	1560
4000	650	1450	670	1485	695	1525	720	1565	740	1600
5000	670	1485	695	1525	720	1565	745	1610	770	1650
6000	700	1530	725	1575	750	1615	775	1660	800	1700
7000	725	1575	750	1615	780	1665	805	1710	830	1750
8000	755	1625	780	1655	810	1715	835	1760	865	1805

NOTE

- Short field technique as specified in NORMAL PROCEDURES page N-21.
- Decrease distances 10% for each 9 knots headwind. For operation with tail winds up to 10 knots, increase distances by 10% for each 2 knots.
- For operation on dry, grass runway, increase distances by 45% of the "ground roll" figure.
- If a landing with flaps up is necessary, increase the approach speed by 10 KIAS and allow for 40% longer distances.

182TCLAUS-01

P-17

DENSITY ALTITUDE CHART

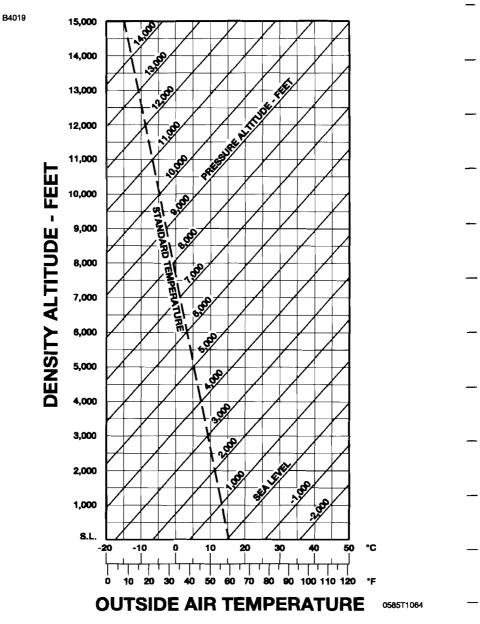


Figure 4*

P-18