# Supernote Kneeboard Checklists for C206F

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PERSONAL MINIMUMS
☐ Aircraft: At least two (2) hours within previous two (2) months
□ Currency:
— Flight review in previous twenty-four (24) months
<ul> <li>— At least three (3) landings in the last sixty (60) days</li> <li>□ Weather (VFR):</li> </ul>
— Pattern work: > 2,000 foot ceiling and five (3) miles visibility
- Cross-country: > 5,000 foot ceiling and ten (5) miles visibility
☐ Crosswind: < 15 knots maximum crosswind component
☐ Fuel: 60-minute reserve
DAYS BEFORE FLIGHT
☐ Plan route: Update EFB, 1800wxbrief, FltPlan, etc.
— Review route airspace, terrain, alternate landing sites
— Review all airport information, layout, services, run-up areas, important
remarks — Compute weight and balance: retrieve passenger's weight, update "C206 Performance" application
— Save Route in Garmin Pilot
— Add Frequencies to Checklists, pages 7,
□ Weather:
— Watch "weekly outlook" reports
— Check updated weather
☐ Review route TFRs, NOTAMs, airspace, terrain, obstacles, etc.
☐ Check night currency and sunset/sunrise times
☐ Charge batteries: Headphones, ADHRS, iPad, Phone, watch, flashlights, handheld radio, cameras, voice recorder
□ <b>Verify EFB data is updated</b> : latest weather, winds, charts, TFRs, etc.
☐ Get sleep
☐ Evaluate fitness to fly
☐ Evaluate weather on the way to airport
☐ Talk to other pilots who have flown recently
BEFORE LEAVING HOUSE
☐ Appropriate Clothing for WX: jacket, pants vs. shorts, etc.
☐ <b>Wallet:</b> credit cards, drivers license, PPL, medical
☐ Flight bag: knee board, Supernote Nomad
☐ <b>Headphones:</b> including passenger headphones and backups
□ Supernote: Charged, new note loaded with template, ready
☐ Phone: Update databases, add airport, APP/DEP, and Center numbers
□ Flashlight
☐ Water and Snacks

#### BEFORE FLIGHT

- Review route: TFRs. NOTAMs. PIREPs. radio and navigation, airspace. navigational and procedural information, terrain, obstacles, landmarks, cultural elements (railroads, roads, trails, populated areas), etc.
- ☐ Review destination airport information:
  - Review A/FD information
  - Review the IAPs to the primary and parallel runways expected
  - Review runways and approach lighting installations
  - Review all lighting limitations marked on charts
  - Review the NOTAMS, and pay special attention to FICONs when the airport surfaces are wet or frozen
  - Note the location of the control tower
  - Review light gun signals
  - Highlight destination on the airfield
- Brief expected taxi route to destination
- □ Weather:
  - Check updated weather forecast along route
  - Check updated weather forecast at alternates
- □ Verify weight and balance
- ☐ Review aircraft performance: "C206 Performance App"
  - Review takeoff performance
  - Review en-route performance
  - Review landing performance at destination (and expected conditions)
- ☐ **Review avionics:** expected configurations and workflows
- ☐ Prepare in-flight log sheet:
  - Write-down frequencies, en-route altitude, and destination pattern altitude
  - Get departure ATIS information

















#### PREFLIGHT (10HR ENGINE CHECK)

$\Box$	look	for	ctaine	(fual	has lia	exhaust)
ш	IUUK	101	Staills	uuei.	UII.aliu	exilauso

 Fuel stains are normally blue (if you use blue-dyed 100LL aygas). Oil stains are, well, oily. Exhaust stains are generally brightly colored: mostly vellow, orange or red

□ look for signs of heat distress

□ look for signs of chafing

— where hoses, wire bundles and control cables come into close proximity to the engine or each other. If you see two things rubbing, isolate them with a tie-wrap or clamp before you launch, lest the chafing continue and cause a serious problem in-flight.

☐ Open Engine

1. Cabin

#### **PREFLIGHT**

□ a. Control Wheel Lock	Remove
☐ b. Check ignition switch	Off
□ c. Turn on Master SwitchCheck	Fuel Then turn off Master
☐ d. Check Fuel Selecter	Fuller Tank
2. Tail	
□ a. Rudder Gust Lock (if installed)	Remove
□ b. Tail tie-down (if attached)	Disconnect
□ c. Check Control Surfacesfor freedom	of movement and security
□ d. Check Cargo doors securely latched a	
<ul> <li>If cargo load will not permit access to the front lock the door from the outside by means of the</li> </ul>	
map compartment.	1-nandie stored in the
• •	
3. Right Wing	
$\hfill \square$ a. Check Aileron4. Tailfor freedom	of movement and security
4. Right Wing Base	
□ a. Wing Tie-Down (if attached)	Disconnect
☐ b. Fuel Tank Vent Opening	Check for stoppage
□ c. Main Wheel Tire	Check for proper inflation

□ e. Fuel Quantity .......Visually Check





















# 5. Propeller Check for oil leaks. ☐ f. Strainer drain knob......Pull and drain for 4 seconds ☐ q. Engine heater (Winter) ......unplug and secure cords 6. Left Wing Base □ b. Fuel Ouantity.......Visually Check 7. Left Wing

















	BEFORE STARTING ENGINE
☐ 1) Exterior Preflight	COMPLETE
□ 2) Seats, Belts, Sholder Harnesses	ADJUSTED and LOCK
□ 3) Breaks	TEST and SET
☐ 4) Cowl Flaps	OPEN
□ 5) Radios and Electrical Equipment	
□ 6) Master Switch	
□ 7) Fuel Selector Valve	FULLER TANK
	START ENGINE
□ 1) Mixture	Rich
□ 2) Propeller	
□ 3) Throttle	
□ 4) Auxiliary Fuel Pump	
□ 5) Throttle	9 :
□ 6) Auxiliary Fuel Pump	
□ 7) Propeller Area	
□ 8) Ignition Switch	
□ 9) Throttle	
□ 10) Ignition Switch	
— The engine should start in two or three r	
continue running, start again at step (3) start, leave auxiliary fuel pump switch of	
open throttle, and crank until engine fire	
seconds). If still unsuccessful, start agai	
procedure after allowing the starter motor	
□ 11) Throttle	IDLE
☐ 12) Oil Pressure	CHECK





















	BEFORE TAKE-OFF
□ 1) Parking Brake	
□ 2) Cowl Flaps	OPEN
☐ 3) Flight Controls	FREE and CORRECT
□ 4) Cabin Doors and Window	CLOSED and LOCKED
□ 5) Flight Instruments and Radios	
□ 6) ALT SEL knobSE	
□ 7) HDG/TRK knob	ALIGN WITH RUNWAY
□ 8) Elevator and Rudder Trim	
□ 9) Mixture	, ,
□ 10) Radio Freq	
□ 11) Radio Call	
— Hibbing Traffic, 75PJ, taxiway C, Taxing to Runwa	
□ 12) Taxi to	
□ 13) Throttle	
— MagnetosCYC	LE from high to low DDM
— PropellerRETURN to	high RPM (Full Forward)
Engine Instruments and Ammeter	
— Suction Gage	
□ 14) Throttle	
□ 15) Throttle Friction Lock	
□ 16) Wing Flaps	0° - 20°
□ 17) Radio Call	FOR DEPARTURE
<ul> <li>Hibbing Traffic, 75PJ is taxing onto Runway 31 de south climbing to 5000, Hibbing</li> </ul>	eparting pattern to the
□ 18) GA Button	PRESS
□ 19) Taxi to	TAKE-OFF Position



















# TAKEOFF / CRUISE / ENROUTE

	NORMAL	IAKE-OFF
□ 1) Wing	Flaps	0° - 20°
□ 2) Powe	erFULL THROTTLE an	d 2850 RPM
□ 3) Mixt	ureLEAN for field elevation (rich if I	pelow 3000)
☐ 4) Eleva	ator ControlLIFT NOSE WHEE	L at 60 MPH
□ 5) Clim	b Speed	90-100 mph
□ 6) Wing	FlapsRETRACT after obstacles	are cleared
□ 7) AP b	utton	PRESS
— Obse	erve "AP YD" to indicate autopilot is active with yaw damp	er
	Button	
	b will continue at current speed under autopilot control,	Notice IAS
and 1	the airspeed being targeted are indicated	
	MAX PERFORMANCE	TAKE-OFF
□ 1) Wing	] Flaps	20
□ 2) Brea	ks	APPLY
□ 3) Power	erFULL THROTTLE an	d 2850 RPM
	ureLEAN for field elevation (rich if l	
	ks	
,	ator ControlSLIGHTLY TAIL-LO	
	b Speed	
	FlapsRETRACT after obstacles are cleared	
□ 9) AP b	utton	PRESS
	erve "AP YD" to indicate autopilot is active with yaw damp	
	Buttonb will continue at current speed under autopilot control,	
	b will continue at current speed under autopilot control, l the airspeed being targeted indicated	Notice IAS
allu	The all speed being targeted indicated	
		CRUISE
□ 1) Power	er15-25 MP, 2200-2550 RPM (no moi	re than 75%)
☐ 2) Mixt	ureLEAN for to 16 gal/h	ır (per Farly)
	ator and Rudder Trim	
☐ 4) Cow	l Flaps	
	NORMAL CLIMB	ENROUTE
□ 1) Airsp	peed1	10-120 MPH
□ 2) Power	er25 MP an	d 2550 RPM
,	ureLean	J ,
	Button	
	N wheel ADJUST SPEED a	
□ 6) Cow	I Flaps OPEN	
الفحا		\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

	MAX PERFORMANCE CLIMB ENROUTE
□ 1) Airspeed	100 MPH at sea level 93 MPH at 10k feet
□ 2) Power	FULL THROTTLE and 2700 RPM
□ 3) Mixture	Lean for Altitude per fuel flow indicator placard
□ 4) IAS Button	Press
□ 5) UP-DN wheel	ADJUST SPEED as necessary
□ 6) Cowl Flaps	FULL OPEN
	LET DOWN / DECENT ENROUTE
□ 1) VS Button	LET DOWN / DECENT ENROUTEPress
	•
☐ 2) UP-DN wheel	Press
<ul><li>□ 2) UP-DN wheel</li><li>□ 3) Power</li></ul>	PressDN DIRECTION - SET DESIRED DECENT RATE
<ul><li>□ 2) UP-DN wheel</li><li>□ 3) Power</li></ul>	Press  DN DIRECTION - SET DESIRED DECENT RATE  AS DESIRED  LEAN for smoothness in power descents



















	BEFORE LANDING
□ 1) Fuel Selector Valve	FULLER TANK
□ 2) Mixture	RICH (below 3000 ft)
□ 3) Propeller	HIGH RPM
🗆 4) Wing Flaps Dowr	n 0° - 10° (below 160 MPH), 10° - 40° (below 120 mph)
□ 5) Airspeed	85-95 MPH (flaps UP), 75-85 mph (flaps DOWN)
🗆 6) Elevator Trim	ADJUST for landing
	Press
□ 8) UP-DN wheel	DN DIRECTION - SET DESIRED DECENT RATE
	BALKED LANDING / GO AROUND
□ 1) Power	FULL THROTTLE and 2850 RPM
□ 2) Wing Flaps	Retract to 20°
□ 3) Airspeed	
🗆 4) Wing Flaps	RETRACT slowly
□ 5) Cowl Flaps	OPEN
BALK	ED LANDING / GO AROUND WITH AUTOPILOT
☐ 1) GO ARROUND Buttor	nPRESS
	Autopilot will not disengage)
	VERIFY airplane pitches up following flight director
•	FULL THROTTLE and 2850 RPM
	Retract to 20°
•	VERIFY or SET as needed
	RETRACT slowly
□ 8) Cowl Flaps	OPEN
	NORMAL LANDING
	MAIN WHEELS FIRST
□ 2) Landing Roll	LOWER NOSE WHEEL GENTLY
□ 3) Braking	MINIMUM REQUIRED
	AFTER LANDING
1) Cowl Flaps	OPEN
🗆 2) Wing Flaps	RETRACT





















# □ 1) Parking Brake SET □ 2) Radios and Electrical Equipment OFF □ 3) Mixture IDLE CUT-OFF (Pulled full out) □ 4) Ignition Switch OFF □ 5) Master Switch OFF □ 6) Control Lock INTSALL

SECURING AIRCRAFT

ILS APPROAC
☐ 1) Navigation source
Turne and identify an its station frequency      ODI
□ 3) APR Key
☐ 5) AP DISC Button
<ul> <li>G) GO AROUND (GA) Button PRESS, Execute Missed Approach Procedu</li> <li>NOTE: Pressing the GA button will not disconnect the autopilot. Select NAV or HDG mode to fly the missed approach procedure.</li> <li>If the Course Deviation Indicator (CDI) is greater than half scale deflection, the autopilot will arm the LOC mode. The pilot must ensure that the current heading will result in a capture of the selected course. In the CDI is within half scale deflection, the autopilot will enter the capture mode when the APR key is pressed.</li> <li>When the selected navigation source is an ILS, glideslope coupling is automatically armed when the APR key is pressed. The glideslope cannot be captured until the localizer is captured. The autopilot can capture the glideslope from above or below the glideslope.</li> </ul>
GPS APPROACH (LPV, LNAV/VNAV, LP+V, OR LNAV+V
<ul> <li>□ 1) Navigation Source</li></ul>
☐ 3) APR Key
<ul> <li>6) ALT Key PRESS to level off at the MDA for a LP+V or LNAV+V approach</li> <li>At DA (LPV or LNAV/VNAV approach), or MDA and Missed Approach Poi (LP+V or LNAV+V),</li> </ul>
$\Box$ 7) AP DISC Button PRESS, Continue visually for a normal landin — Or
<ul> <li>8) GO AROUND (GA) Button PRESS, Execute Missed Approach Procedu</li> <li>NOTE: Pressing the GA Button will not disconnect the autopilot. Select</li> <li>NAV or HDG mode to fly the missed approach procedure.</li> </ul>



•	APPROACH (LP, LNAV)
→ 1) Navigation Source	SELECT GPS on the CDI
<ul> <li>2) Course Pointer VERIF</li> <li>NOTE: Ensure that the current heading wi selected course.</li> </ul>	
□ 3) NAV Key	PRESS, verify GPS ARMED
□ 4) GPS Mode VERIFY airplane (	
$\sqsupset$ 5) Altitude PreselectSET to n	next required step-down altitude
☐ 6) Missed Approach Altitude SET — At Missed Approach Point,	T when in ALT mode at the MDA
☐ 7) AP DISC Button PRESS, Contin  — Or	ue visually for a normal landing
<ul> <li>8) GO AROUND (GA) Button PRESS, Exec</li> <li>NOTE: Pressing the GA button will not dis</li> <li>NAV or HDG mode to fly the missed approximately</li> </ul>	connect the autopilot. Select
	VOR APPROACH
□ 1) Navigation Source	
— Tune and identify the station frequency	
<ul> <li>2) Course Pointer</li> <li>NOTE: Ensure that the current heading wi selected course.</li> </ul>	ll result in a capture of the
□ 3) NAV Key	
$\sqsupset$ 4) VOR Mode VERIFY airplane C	
$\sqsupset$ 5) Altitude PreselectSET to n	
<ul><li>☐ 6) Missed Approach Altitude SE<sup>-</sup></li><li>— At Missed Approach Point,</li></ul>	T when in ALT mode at the MDA
□ 7) AP DISC Button PRESS, Contin — Or	ue visually for a normal landing
□ 8) GO AROUND (GA) Button PRESS, Exec — <b>NOTE</b> : Pressing the GA Button will not dis	connect the autopilot. Select
NAV or HDG mode to fly the missed appro	oach procedure.



















RADIO CH	EAT-SH	EET						
							DE	PARTURE
Departure A	Airport _							
Frequencies								
ATIS	3	Ground		Tow	er		Clearai	nce
ATIS Inform	nation (De	eparture)		l				
Info.	Time	Wind Direction		nd eed	Temp	А	ltimeter	Runway
NOTAMS/	Misc:					<u> </u>		
Uncontrolle	d Airpor	<u>t</u>						
area	traffic, _	75PJ back ta (tail #)	xi run	way _	(Rwy #)			
		75PJ departii (tail #)				e <u>(d</u>	irection)	
		75PJ exiting						
Controlled	<u>Airport</u>							
groun (airport)	d, 75PJ i	is atw (location)	ith info	ormatic	on , depa	artir	ng to the	direction)
Taxi instruc	ctions: runway:	l vi	2	1			I	
		, and ready to		ı				
	3	•						
airport) towe	r, <u>(tail #)</u>	s holding short	at Run	way <u>(Rı</u>	<u>,</u> Ready f <u>vy #)</u>	or c	departure	•



















ATIS Information (Departure)  Info. Time Wind Speed Temp Altimeter Runway  NOTAMS/Misc:  Uncontrolled Airport  area traffic, 75PJ entering the pattern on the (leg) downwind for runway base for runway base for runway  area traffic, 75PJ final for runway  area traffic, 75PJ clear active runway, taxi (Rwy #) (parking location)  Controlled Airport
ATIS Information (Departure)  Info. Time Wind Direction Speed Temp Altimeter Runway  NOTAMS/Misc:  Uncontrolled Airport  area traffic, 75PJ entering the pattern on the (leg)
ATIS Ground Tower Clearance  ATIS Information (Departure)  Info. Time Wind Wind Speed Temp Altimeter Runway  NOTAMS/Misc:  Uncontrolled Airport  area traffic, 75PJ entering the pattern on the (leg)  downwind for runway base for runway  area traffic, 75PJ linal for runway
ATIS Information (Departure)  Info. Time Wind Direction Speed Temp Altimeter Runway  NOTAMS/Misc:  Uncontrolled Airport  area traffic, 75PJ entering the pattern on the (leg)
Info. Time Wind Speed Temp Altimeter Runway  NOTAMS/Misc:  Uncontrolled Airport  area traffic, 75PJ entering the pattern on the (leg) .  downwind for runway base for runway base for runway area traffic, 75PJ final for runway  [airport] (lail #) (Rwy #) .  area traffic, 75PJ clear active runway, taxi (taxiway) (parking location) .  Controlled Airport
Info. Time Wind Speed Temp Altimeter Runway  NOTAMS/Misc:  Uncontrolled Airport  area traffic, 75PJ entering the pattern on the (leg) .  downwind for runway base for runway base for runway area traffic, 75PJ final for runway  [airport] (lail #) (Rwy #) .  area traffic, 75PJ clear active runway, taxi (taxiway) (parking location) .  Controlled Airport
NOTAMS/Misc:  Uncontrolled Airport  area traffic, 75PJ entering the pattern on the (leg)  downwind for runway base for runway base for runway area traffic, 75PJ final for runway  area traffic, 75PJ final for runway  area traffic, 75PJ clear active runway, taxi (taxiway) (parking location)  Controlled Airport
NOTAMS/Misc:  Uncontrolled Airport  area traffic, 75PJ entering the pattern on the (leg)  downwind for runway base for runway base for runway  area traffic, 75PJ final for runway  area traffic, 75PJ clear active runway, taxi  area traffic, 75PJ clear active runway, taxi  (laxiway) (parking location)  Controlled Airport
Uncontrolled Airport  area traffic, 75PJ entering the pattern on the
Uncontrolled Airport  area traffic, 75PJ entering the pattern on the
Uncontrolled Airport  area traffic, 75PJ entering the pattern on the
area traffic, 75PJ entering the pattern on the
area traffic, 75PJ entering the pattern on the
area traffic, 75PJ entering the pattern on the  downwind for runway base for runway  area traffic, 75PJ final for runway  (Iail #) (Rwy #).  area traffic, 75PJ clear active runway, taxi to  (Iairport) (tail #) (parking location)
downwind for runway base for runway area traffic, 75PJ final for runway (tail #) (Rwy #).  area traffic, 75PJ clear active runway, taxi to (tail #) (parking location).
downwind for runway base for runway area traffic, 75PJ clear active runway, taxi to (tail#) (parking location)
downwind for runway base for runway area traffic, 75PJ clear active runway, taxi to (tail#) (parking location)
base for runway  area traffic, 75PJ final for runway  (Itall #)  area traffic, 75PJ clear active runway, taxi (taxiway)  Controlled Airport
area traffic, 75PJ final for runway (Rwy #)  area traffic, 75PJ clear active runway, taxi (taxiway) to (parking location)  Controlled Airport
area traffic, 75PJ clear active runway, taxi to (parking location)  Controlled Airport
Controlled Airport
Controlled Airport
tower, 75PJ ismiles to the,with informationinbound for la
(airport) (tail #) (distance) (direction) (ATIS)
When landed, clear of the runway:
, 7FDI
ground, 75PJ is clear of runway at for
Tavi instructions:
Taxi instructions: Taxi to parking via:
Tuni to paining via.





#### **EXECUTING A 180° TURN IN CLOUDS**

Upon entering the clouds, an immediate plan should be made to turn back as follows: □ 9) Note the time on the minute hand and observe the position of the sweep second hand on the clock □ 10) When the sweep second hand indicates the nearest half-minute, initiate a standard rate left turn, holding the turn coordinator symbolic aircraft wing opposite the lower left index mark for 60 seconds. Then roll back to level flight by leveling the miniature aircraft.  $\square$  11) Check accuracy of the turn by observing the compass heading which should be the reciprocal of the original heading. ☐ 12) If necessary, adjust heading primarily with kidding motions, rather than rolling motions so that the compass will read more accurately. ☐ 13) Maintain altitude and airspeed by cautious application of elevator control. Avoid overcontrolling by keeping the hands off the control wheel and steering only with rudder. EMERGENCY LET-DOWNS THROUGH CLOUDS If possible, obtain radio clearance for an emergency descent through clouds. To guard against a spiral dive, choose an easterly or westerly heading to minimize compass card swings due to changing bank angles. In addition, keep hands off the control wheel and steer a straight course with rudder control by monitoring the turn coordinator. Occasionally check the compass heading and make minor corrections to hold an approx-imate course. Before descending into the clouds, set up a stabilized let-down condition as follows: □ 1) Reduce power to set up a 500 to 800 ft/min rate of descent. ☐ 2) Adjust mixture for smooth operation. □ 3) Adjust the elevator and rudder trim for a for stabilized descent at 110 MPH □ 4) Keep hands off the control wheel. □ 5) Monitor turn coordinator and make corrections by rudder alone. ☐ 6) Readjust rudder trim to relieve unbalanced rudder force if pre-sent. □ 7) Check trend of compass card movement make cautious corrections with rudder to stop the turn. □ 8) Upon breaking out of clouds resume normal cruising flight.





















	REC	OVERY	FROM	Α	SPIRAL	DIVE
□ 2)	) Close the throttle place propeller contr ) Stop the turn by using coordinated aile symbolic aircraft in the turn coordinate ) Cautiously apply control wheel back pr	eron and or with tl	rudder he horiz	zon	reference	
	indicated airspeed to 110 MPH.					
	<ul> <li>Adjust the elevator trim control to mai</li> <li>Keep hands off the control wheel using heading. Adjust rudder trim to relieve present.</li> </ul>	g rudder	control	to	hold a st	raight
□ 6)	) Clear engine occasionally but avoid us trimmed glide.	ing enou	igh pow	er	to disturb	the
□ 7)	) Upon breaking out of clouds apply nor flight.	mal crui	sing po	we	r and resu	ıme
						SPINS
	ntional spins are prohibited in this aircr ur, the following recovery technique sho			nad	vertent sp	oin
□ 2)	) Retard throttle to idle position. ) Apply full rudder opposite to the direc ) After one-fourth turn move the control motion.				neutral in	a brisk
□ 4)	) As rotation stops neutralize rudder, ar the resulting dive.	ıd make	a smoo	th	re-covery	from
					CONDI	TIONS
	nough flying in known icing conditions is g encounter should be handled as follow		ted, an	un	expected	
	) Turn pitot heat ON ) Turn back or change altitude to obtain less conducive to icing.	an outs	ide air t	em	perature	that is
□ 3)	) Pull cabin heat control full out and rota obtain maximum windshield defroster			cl	ockwise t	0
□ 4)	) Increase engine speed to minimize ice excessive vibration is noted, momenta RPM with the propeller control, and the forward.	rily redu	ce engi	ne	speed to	2200
_	<ul> <li>Cyling the RPM flexes the propeller bla centrifugal force, causing ice to shed n</li> </ul>			М	increases	
□ 5)	) Watch for signs of induction air filter in increasing the throttle setting.			ani	fold press	sure by
$\overline{}$		—	$\overline{}$	_		$\overline{}$

<ul> <li>If ice accumulates on the intake filter (causing the alternate air valve to open), a decrease of 1 to 2 inches of full throttle manifold pressure will be experienced.</li> </ul>
<ul> <li>6) If icing conditions are unavoidable plan a landing at the nearest airport.</li> <li>With an extremely rapid ice build-up, select a suitable "off airport" landing site.</li> </ul>
7) With an ice accumulation of 1/4 inch or more on the wing leading edges be prepared for a significantly higher power requirement, approach speed, stall speed, and landing roll.
□ 8) Open the window and, if practical, scrape ice from a portion of the windshield for visibility in the landing approach.
<ul> <li>9) Use a 10 - 20' landing flap setting for ice accumulations of 1 inch or less</li> <li>With heavier ice formations, approach with flaps retracted to ensure adequate elevator effectiveness in the approach and landing.</li> </ul>
<ul> <li>10) Approach at 110 to 120 MPH with 20° flaps and 120 to 130 MPH with 0 10° flaps, depending upon the amount of ice accumulation.</li> <li>If ice accumulation is unusually large, decelerate to the planned approac speed while in the approach configuration at a high enough altitude which would permit recovery in the event that a stall buffet is encountered.</li> </ul>
<ul> <li>11) Land on the main wheels first avoiding the slow and high type of flare- out.</li> </ul>
12) Missed approaches should be avoided wherever possible because of severely reduced climb capability. However, if a go-around is mandatory make the decision much earlier in the approach than normal. Apply maximum power and maintain 110 MPH while retracting the flaps slowly in 10° increments.
AUTOPILOT PRE-FLIGHT TEST FAIL
<ul> <li>Amber AP with a red X on GI 275 autopilot status box</li> <li>1) Indicates the AFCS system failed the automatic Pre-Flight test.</li> <li>NOTE: The autopilot, yaw damper (if installed), and ESP will be inoperative.</li> </ul>
LOSS OF NAVIGATION INFORMATION
<ul> <li>Amber GPS, VOR, LOC, or BS flashes for 10 seconds on GI275</li> <li>NOTE: If a navigation signal is lost while the autopilot is tracking it, the autopilot will roll the aircraft wings level and default to roll mode (ROL).</li> <li>If on an instrument approach at the time the nav signal is lost</li> </ul>



□ 1) Missed Approach Procedure ......EXECUTE (as necessary)

#### LOSS OF ATRSPEED DATA

- Red X through airspeed tape on the GI 275, amber AP with a red X in autopilot status box
- NOTE: If airspeed data is lost while the autopilot is tracking airspeed, the flight director will default to pitch mode (PIT).
- - Mav be GI 275 Knob of Autopilot Status Button (cancels disconnect tone)
- □ 3) Trim Switch ......TRIM as required
  - NOTE: The autopilot cannot be re-engaged. The flight director will be available however IAS mode cannot be selected. Loss of airspeed will be accompanied by a red PTRIM indication on the GI 275.

### LOSS OF ALTITUDE DATA

- RED X through altitude tape on the GI 275 - NOTE: If altitude data is lost while the autopilot is tracking altitude, the
- autopilot will default to pitch mode (PIT).
- □ 1) Autopilot ...... SELECT different vertical mode

# LOSS OF GPS TNFORMATTON

- GPS position information is lost to the autopilot.
- NOTE: If GPS position data is lost while the autopilot is tracking a GPS. VOR, LOC or Back Course the autopilot will default to roll mode (ROL). The autopilot will default to pitch mode (PIT) if GPS information is lost while tracking an ILS. The autopilot uses GPS aiding in VOR, LOC and BC
- modes. □ 1) Autopilot ....... SELECT different lateral and/or vertical mode as necessary
- If on an instrument approach: ☐ 2) AP DISC BUTTON ...... PRESS, Continue the approach manually
- ☐ 3) Missed Approach Procedure ......EXECUITE (as necessary)

# HEADING DATA SOURCE FAILURE

- □ 1) Autopilot .......SELECT different lateral mode as necessary
- NOTE: Track information will be displayed on the GI 275. GPSS will not be provided to the autopilot for heading legs.

# **ELEVATOR MISTRIM**

- Amber TRIM UP or TRIM DOWN displayed on the G5 or GI 275
- This annunciation indicates a mistrim of the elevator while the autopilot is engaged. The autopilot will normally trim the airplane as required using the pitch trim servo cartridge. However, during rapid acceleration, deceleration, configuration changes, or near either end of the elevator trim limits, momentary illumination of this annunciation may occur. If the autopilot is disconnected while this annunciation is displayed, high elevator control forces are possible.























- WARNING: Do not attempt to overpower the autopilot in the event of a pitch mistrim. The autopilot servo will oppose pilot input and will cause pitch trim to run opposite the direction of pilot input. This will lead to a significant out-of-trim condition, resulting in large Control Yoke force when disengaging the autopilot.
- NOTE: Momentary display of the TRIM UP or TRIM DOWN annunciation during configuration changes or large airspeed changes is normal.
- WARNING: Be prepared for significant sustained control forces in the direction of the mistrim annunciation. For example, TRIM DOWN indicates nose down Control Yoke force will be required upon autopilot disconnect.
- ☐ 3) Trim Switch ATTEMPT MANUAL FLECTRIC PITCH TRIM ADJUSTMENT AS REOUIRED - NOTE: Manual electric pitch trim should be used with caution until the
  - cause of the mistrim has been investigated and corrected.

# YAW DAMPER DISCONNECT

- Amber YD displayed in autopilot status box on display
- □ 1) YD Button on GMC......PRESS and RELEASE OR GI 275 Knoh
- □ 2) Aircraft Attitude.......MAINTAIN / REGAIN AIRCRAFT CONTROL
  - NOTE: A flashing amber 'YD' in the autopilot status box indicates that the vaw damper has disconnected. If the disconnect was not pilot initiated. Refer to Section 3 - Emergency Procedures, YAW AXIS FAILURE / ABNORMAL DISCONNECT, for further information.





















	ENGINE FAILURE AFTER TAKE-OFF
☐ 1) Airspeed	
□ 2) Mixture	IDLE CUT-OFF
□ 3) Fuel Selector Valve	OFF
	OFF
□ 5) Wing Flaps	AS REQUIRED (40° recommended)
	OFF
	ENGINE FAILURE DURING FLIGHT
□ 1) Airspeed	
☐ 2) Fuel Selector Valve and Quant	ityCHECK
	RICH
□ 4) Auxiliary Fuel Pump	
	for 3 - 5 seconds with throttle 1/2 open; OFF
	TH (or START if propeller is not windmilling)
	SLOWLY ADVANCE
	NCYLANDING WITHOUT ENGINE POWER
	90 MPH (flaps UP) 80 MPH (flaps DOWN)
	IDLE CUT-OFF
-,	OFF
☐ 4) Ignition Switch	OFF
	AS REQUIRED (40° recommended)
•	OFFUNLATCH PRIOR TO TOUCHDOWN
•	SLIGHTLY TAIL LOW
	APPLY HEAVILY
,	
	NARY LANDING WITH ENGINE POWER
	necklist
	laps 20° and 90 MPH airspeed noting the oon reaching a safe altitude and airspeed.
	OFF
	40°
	OFF
	UNLATCH PRIOR TO TOUCHDOWN.
	SLIGHTLY TAIL LOW
•	OFF
, 3	APPLY HEAVILY
-,	
<u>                                    </u>	

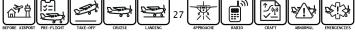
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Prepare for ditching by securing or jettisoning heavy objects located in the baggage area, and collect folded coats or cushions for protection of occupant's face at touchdown. Transmit Mayday message on 121.5 MHz giving location and intentions.
<ul> <li>1) Plan approach into wind if winds are high and seas are heavy. With heavy swells and light wind, land parallel to swells.</li> <li>2) Approach with flaps 40° and sufficient power for a 300 ft/min rate of descent at 75 MPH.</li> </ul>
<ul> <li>□ 3) cabin and front cargo doorsUnlatch</li> <li>□ 4) Descent</li></ul>
<ul> <li>5) Place a folded coat or cushion in front of face at time of touch-down.</li> <li>6) Evacuate aircraft through cabin and cargo doors. If necessary, open window to flood cabin compartment for equalizing pressure so that doors can be opened.</li> </ul>
<ul> <li>7) After evacuation of cabin Inflate life vests and raft (if available)</li> <li>The aircraft cannot be depended on for flotation for more than a few minutes.</li> </ul>
ENGINE FIRE IN FLIGHT
Although engine fires are extremely rare in flight, the following steps should be taken if one is encountered:
□ 1) MixtureIDLE CUT-OFF □ 2) Fuel Selecter ValveOFF
□ 3) Master SwitchOFF □ 4) Cabin Heat and AirOFF (except overhead vents) □ 5) Airspeed120 MPH
<ul> <li>If fire is not extinguished, increase flite speed to find an airspeed which will provide an incombustible mixture.</li> <li>6) Execute a forced landing</li> </ul>
ELECTRICAL FIRE IN FLIGHT
The initial indication of an electrical fire isusually the odor of burning insulation. The following procedure should then be used:
□ 1) Master SwitchOFF □ 2) All Other Switches (except ignition)OFF □ 3) Vents/Cabin Air/Heat
<ul> <li>4) Fire Extinguisher</li></ul>
BEFORE AIRPORT PRE-FLIGHT TAKE-OFF CRUISE LANDING 25 APPROACHE RADIO CRAFT ABBORNAL EMERGENCES

	e appears out and electrical power is necessary for continuance of flight:  Master SwitchON
□ 6) □ 7)	Circuit Breakers
	Vents/Cabin Air/heat OPEN when fire is completely extinguished
	AUTOPILOT MALFUNCTOIN / PITCH TRIM RUNAWAY
□ 2)	Control Yoke
	Caution: Be prepared for high elevator control forces
	Aircraft Attitude
	Trim SwitchRE-TRIM if necessary, using the trim switch on yoke
	Autopilot Circuit Breaker
	Circuit Breaker. Pulling the Autopilot circuit breaker will render the
	autopilot, yaw damper, and ESP inoperative.
□ 6)	AO DISC Button
	AUTOPILOT FAILURE / ABNORMAL DISCONNECT
□ 1)	AP DISC ButtonPRESS and RELEASE
_	May be GI 275 Knob of Autopilot Status Button (cancels disconnect tone)
_ □ 2)	May be GI 275 Knob of Autopilot Status Button (cancels disconnect tone) Aircraft AttitudeMAINTAIN/REGAIN AIRCRAFT CONTROL
_ □ 2) _	May be GI 275 Knob of Autopilot Status Button (cancels disconnect tone)
_ □ 2) _	May be GI 275 Knob of Autopilot Status Button (cancels disconnect tone) Aircraft AttitudeMAINTAIN/REGAIN AIRCRAFT CONTROL NOTE: The autopilot disconnect may be accompanied by a red AFCS in the autopilot status box, indicating the Automatic Flight Control System has failed. The flight director will not be available, and the autopilot
_ □ 2) _	May be GI 275 Knob of Autopilot Status Button (cancels disconnect tone) Aircraft Attitude
_ _ 2) _ _	May be GI 275 Knob of Autopilot Status Button (cancels disconnect tone) Aircraft Attitude
_ _ 2) _ _	May be GI 275 Knob of Autopilot Status Button (cancels disconnect tone) Aircraft Attitude
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	May be GI 275 Knob of Autopilot Status Button (cancels disconnect tone) Aircraft Attitude



	PITCH TRIM FAILURE
□ 2)	Control Yoke
□ 3)	Caution: Be prepared for high elevator control forces Elevator ControlAS REQUIRED USING THE CONTROL YOKE Caution: Do not reengage the autopilot. Be prepared for high elevator control forces.
	Trim Switch ATTEMPT MANUAL ELECTRIC PITCH TRIM ADJUSTMENT Note: Manual Electric Pitch Trime may be inoperative
□ 5)	Yaw Damper ENGAGE AS REQUIRED
	ESP ACTIVATION
□ 2) —	Throttle
	Releasing the button will allow ESP to function.
	OVERSPEED PROTECTION (MAXSPD)
□ 2)	Throttle
□ 2)	Aircraft Attitude and Altitude
□ 2)	Aircraft Attitude and Altitude



#### GEC 500 NOTES

Gray notes are incorporated into appropriate checklists in previous sections.

Listen to AWOS and use **ALT SEL knob** to set Target Elevation Then use **HDG/TRK knob** to set heading bug to align with runway Before taxing onto runway for takeoff off press **GA button** 

Once airborne and at or above pattern altitude press AP button Observe "AP YD" to indicate Autopilote is active with yaw damper.

To facilitate clime press **IAS button** to clime at the current airspeed. Notice IAS and the airspeed being targeted indicated

To track heading bug press HDG button Notice HDG light up to indicate heading mode

Only climb with IAS, as its safer for climbs. To turn to new headings turn **HDG/TRK knob** and the plane will turn.

Activate a direct to waypoint on navcom, when active press the **NAV button**. Notice GPS replaces HDG in the status box.

Notice altitude flashing when crossing within 1000ft, then a tone when 200ft from target elevation. Indicator will change from IAS with Airspeed to ALTS with Elevation.

If ATC gives instructions to divert some number of degrees. Turn **HDG/TRK knob** to move bug to new heading, press **HDG button** to activate following the bug.

To descend press **VS button** and notice the indicator box showing VS with rate of decent at 0. Set rate of decent by turning the **UP-DN wheel** in the DN direction

IF ATC gives an elevation target along the track, use navcom to set an "Along Track" waypoint. Give the along track waypoint a target elevation. Use the ALT SEL knob to turn selected altitude to match ATC target. Push the VNAV button verify there is a white VNAV indicator in the status box. It will turn green at the correct time to descend to the target altitude.

After selecting and activating an RNAV or similar approach on the navcom, arm the approach by pressing the **APR button**. Notice white GP in the vertical indication status box, when the glide path is captured GP will turn green. Use **ALT SEL knob** to adjust target altitude to the missed approach altitude.









