

PREFLIGHT CHECKLIST

COCKPIT

TIE DOWN & PITOT COVER REMOVE
 AIRCRAFT DOCUMENTS AROW
 PARKING BRAKE SET
 ALL INSTRUMENT PANEL SWITCHES OFF
 MIXTURE IDLE CUT-OFF
 LEFT/RIGHT MAGS OFF
 BATTERY MASTER ON
 PANEL LIGHTING VERIFY OPERATION
 PITOT HEAT ON
 EXTERIOR LIGHTING ON & VERIFY OPERATIONS
 STALL WARNING TONE CHECK
 PITOT/STATIC HEAD CHECK – WARM

CAUTION

PITOT HEAD CAN BE VERY HOT
 DO NOT OPERATE LONGER THAN 3 MIN
 SEE POH FOR FULL CAUTION MESSAGE

P HEAT OFF CAS MESSAGE EXTINGUISHED
 FUEL CHECK QUANTITY &
 IMBALANCE
 ALL LIGHTING OFF
 PITOT HEAT OFF
 P HEAT OFF CAS MESSAGE ILLUMINATED
 BATTERY MASTER OFF
 FLAPS EXTEND
 PRIMARY FLIGHT CONTROLS PROPER OPERATION
 STABILATOR AND RUDDER TRIM NEUTRAL
 ALTERNATE STATIC CHECK
 PITOT & STATIC SYSTEMS DRAIN
 WINDOWS CHECK, CLEAN
 BAGGAGE SECURE

RIGHT WING

SURFACE CONDITION CLEAR OF ICE/FROST/SNOW
 FLAP AND HINGES NO DAMAGE OR INTERFERENCE
 AILERON AND HINGES NO DAMAGE OR INTERFERENCE
 STATIC WICKS (3) CHECK SECURE
 WING TIP AND LIGHTS CHECK
 FUEL TANK SUMPS DRAIN
 FUEL TANK VENT CLEAR
 MAIN GEAR STRUT PROPER INFLATION (4.5 ± .25IN.)
 TIRE CHECK
 BRAKE BLOCK AND DISCS CHECK
 FUEL TANK CHECK SUPPLY, SECURE CAP
 FRESH AIR INLET CLEAR

NOSE SECTION

GENERAL CONDITION CHECK
 VENT FAN INLET CLEAR
 COWLING SECURE
 WINDSHIELD CLEAN
 OIL CHECK LEVEL
 DIPSTICK PROPERLY SEATED AND SECURED
 OIL FILLER DOOR SECURE
 PROPELLER AND SPINNER CHECK
 AIR INLETS (4) CLEAR
 NOSE CHOCK REMOVE
 NOSE GEAR STRUT PROPER INFLATION (3.25 ± .25 IN.)
 NOSE TIRE CHECK
 FUEL STRAINER DRAIN

LEFT WING

SURFACE CONDITION CLEAR OF ICE/FROST/SNOW
 FRESH AIR INLET CLEAR
 MAIN GEAR STRUT PROPER INFLATION (4.5 ± .25 IN.)
 TIRE CHECK
 BRAKE BLOCK AND DISC CHECK
 FUEL TANK SUMPS DRAIN, CHECK FOR WATER,
 SEDIMENT, AND PROPER FUEL
 FUEL TANK VENT CLEAR
 FUEL TANK CHECK SUPPLY, SECURE CAP
 PITOT/STATIC HEAD CLEAR
 OAT PROBE CHECK
 WING TIP AND LIGHTS CHECK
 AILERON AND HINGES NO DAMAGE OR INTERFERENCE
 FLAP AND HINGES NO DAMAGE OR INTERFERENCE
 STATIC WICKS (3) CHECK SECURE

FUSELAGE

ANTENNAS CHECK
 EMPENNAGE CLEAR OF ICE/FROST/SNOW
 STABILATOR AND TRIM TAB NO DAMAGE OR INTERFERENCE
 RUDDER NO DAMAGE OR INTERFERENCE
 STATIC WICKS (3) CHECK SECURE
 ELT DOOR SECURE
 EXTERNAL POWER DOOR SECURE

WALK AROUND AIRCRAFT

NOTE GENERAL CONDITION

NORMAL PROCEDURES PA-28-181 PIPER PILOT
BEFORE ENGINE START THROUGH ENGINE SHUTDOWN –
CHECKLIST WILL BE VERBALIZED

BEFORE ENGINE START

MX TIME.....CHECK TIME REMAINING
 VS TIME ON CHECKLIST COVER
 BILLING TIME.....RECORD
 FLAPS.....RETRACT
 CABIN DOOR.....CLOSED AND SECURE
 SEATS.....ADJUSTED AND LOCKED IN POSITION
 SEATBELTS AND HARNESSSES.....FASTEN AND SECURE
 PARKING BRAKE.....SET
 PASSENGER BRIEF.....COMPLETE

ENGINE START

CIRCUIT BREAKERS.....IN
 ALT. AIR.....CLOSE
 ALTERNATE STATIC SOURCE.....OFF
 FUEL SELECTOR.....CYCLE
 MASTER.....ON
 ALTERNATOR.....ON
 LEFT/RIGHT MAG SWITCHES.....ON
 FUEL PUMP.....ON
 FUEL PRESSURE.....STABILIZE
 ANTI-COLLISION LIGHTS.....ON
 AREA.....CLEAR
 THROTTLE.....OPEN 1/8 INCH
 MIXTURE.....
COLD START.....GPH ~4.5 THEN IDLE CUT-OFF
HOT START.....1/8 TO 1/4 INCH
 PFD ANNUNCIATIONS.....NO RED X'S
 STARTER.....ENGAGE
 MIXTURE.....ADVANCE
 THROTTLE.....1000 RPM
 OIL PRESSURE.....CHECK

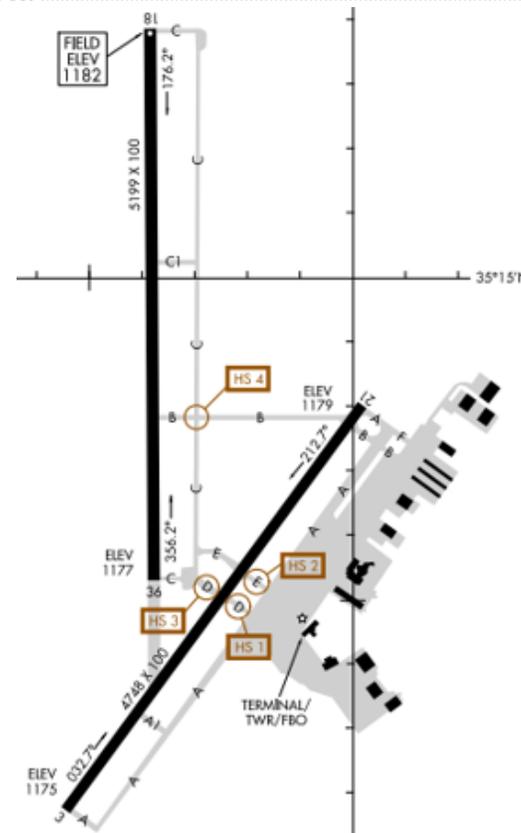
PRE-TAXI

DATABASES.....VERIFY CURRENCY
 CAS MESSAGE.....CONSIDER ANY ILLUMINATED
 PFD ANNUNCIATIONS.....CONSIDER ANY ILLUMINATED
 FUEL CALC TAB (ENG PAGE).....ENTER FUEL QUANTITY
 SYSTEM MESSAGES.....CONSIDER
 LIGHTS.....AS REQUIRED
 VENTILATION, HEATER, AND DEFROSTER.....AS DESIRED
 COM/NAV RADIOS & AVIONICS.....CHECK & SET
 AUTOPILOT.....VERIFY PREFLIGHT
 SELF-TEST COMPLETED
 STANDBY FLIGHT INSTRUMENT.....VERIFY ON WITH NO RED-X'S
 OR FAILURE ANNUNCIATIONS
 AWOS/ATIS.....CHECK
 ALTIMETER.....SET, VERIFY BOTH
 TRANSPONDER.....LOCAL CODE & ALT
 PASSENGER BRIEF.....COMPLETE
 PARKING BRAKE.....RELEASE
 BRAKES.....TEST

NORMAL PROCEDURES PA-28-181 PIPER PILOT
BEFORE ENGINE START THROUGH ENGINE SHUTDOWN –
CHECKLIST WILL BE VERBALIZED

ENGINE RUN-UP (GROUND CHECK)

PARKING BRAKE.....SET
 TRIM.....NEUTRAL
 THROTTLE.....2000 RPM
 LEFT/RIGHT MAG CHECK.....CHECK L & R
 (MAX DROP 175 & MAX DIFF 50 RPM)
 OIL TEMPERATURE.....CHECK
 OIL PRESSURE.....CHECK
 VOLTS INDICATION.....CHECK BUS (28 ±1 VOLT)
 ALT AMPS INDICATION.....CHECK NORMAL
 ALT. AIR.....CHECK FOR RPM DROP
 FUEL PUMP.....OFF, VERIFY ENGINE OPERATION
 THROTTLE.....IDLE CHECK, 1000 RPM
 AUTOPILOT.....ENGAGE
 FLIGHT CONTROLS.....FREE & CORRECT
 VERIFY AP CAN BE OVERPOWERED
 A/P DISC BUTTON.....PRESS, VERIFY AP DISENGAGES
 AND AUDIO ALERT
 CABIN DOOR.....LATCHED



NORMAL PROCEDURES PA-28-181 PIPER PILOT
BEFORE ENGINE START THROUGH ENGINE SHUTDOWN –
CHECKLIST WILL BE *VERBALIZED*

BEFORE TAKE-OFF

TYPE OF TAKEOFF DETERMINE
 AIRSPEEDS: ROTATION, CLIMB OUT,
 AND BEST GLIDE BRIEF
 PRE-TAKEOFF BRIEFING COMPLETE
 BATTERY MASTER VERIFY ON
 ALTERNATOR VERIFY ON
 FUEL PUMP ON
 LEFT/RIGHT MAG SWITCHES VERIFY ON
 FLIGHT INSTRUMENTS NO RED X'S
 STANDBY FLIGHT INSTRUMENT NO RED X'S
 CAS MESSAGE CONSIDER ANY ILLUMINATED
 PFD ANNUNCIATIONS CONSIDER ANY ILLUMINATED
 SYSTEM MESSAGES CONSIDER
 FUEL SELECTOR FULLEST TANK
 ENGINE INDICATIONS CHECK
 ANTI-COLLISION LIGHTS ON
 LANDING LIGHTS ON
 ALT. AIR CLOSE
 MIXTURE RICH
 SEAT BACKS ERECT
 SEATS ADJUSTED AND LOCKED IN POSITION
 BELTS/HARNESS FASTENED/CHECK
 EMPTY SEATS SEAT BELTS SECURELY FASTENED
 FLAPS SET
 STABILATOR/RUDDER TRIM SET
 CONTROLS FREE AND CORRECT
 DOOR LATCHED
 TAKE-OFF TIME RECORD

- V_{S0} – 45 KIAS
- V_{S1} – 50 KIAS
- V_R – 60 KIAS
- V_X – 64 KIAS
- V_Y – 76 KIAS
- Best Glide – 76 KIAS
- Cruise Climb – 87 KIAS
- V_{FE} – 102 KIAS
- V_O – 113 KIAS
- V_{NO} – 125 KIAS
- V_{NE} – 154 KIAS

NORMAL PROCEDURES PA-28-181 PIPER PILOT

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NORMAL PROCEDURES PA-28-181 PIPER PILOT
BEFORE ENGINE START THROUGH ENGINE SHUTDOWN –
CHECKLIST WILL BE *VERBALIZED*

CLIMB (BETWEEN 500 AND 1500 AGL)

POWER..... SET
 TRIM..... SET
 FUEL PUMP..... OFF
 LANDING LIGHTS..... OFF

CRUISE (AT TOP OF CLIMB FOR X/C AND LCL FLIGHTS)

POWER..... SET
 TRIM..... SET
 MIXTURE..... AS REQUIRED
 TRUE AIR SPEED (X/C FLTS)..... VERIFY

IN-RANGE (X/C – BEFORE TOP OF DESCENT; LCL – BEFORE TURNING TO OUN)

AIRSPPEED 122 KIAS
 SEATBELTS FASTEN AND SECURE

APPROACH AND LANDING (BEFORE PATTERN ENTRY AND BEFORE MIDFIELD DOWNWIND EACH SUBSEQUENT APPROACH)

COM/NAV RADIOS & AVIONICS..... CHECK & SET
 AWOS/ATIS..... CHECK
 ALTIMETER..... SET, VERIFY BOTH
 SEAT BACKS ERECT
 SEAT BELTS/HARNESS..... FASTENED/ADJUSTED
 ARM RESTS STOWED
 FUEL PUMP..... ON
 FUEL SELECTOR FULLEST TANK
 TYPE LANDING DETERMINE
 FLAPS..... SET (102 KIAS MAX.)
 ALT. AIR..... AS REQUIRED
 MIXTURE RICH
 LANDING LIGHTS ON
 PARKING BRAKE VERIFY OFF
 TOE BRAKES DEPRESS TO CHECK
 AUTOPILOT DISCONNECT (ABOVE 200AGL)
 INITIAL APPROACH SPEED 75-95 KIAS
 FINAL APPROACH SPEED 66 KIAS
 TOUCHDOWN MAIN WHEELS
 THEN GENTLY LOWER NOSE
 BRAKING AS REQUIRED

GO-AROUND

MIXTURE FULL RICH
 THROTTLE..... FULL OPEN
 CONTROL WHEEL..... BACK PRESSURE TO OBTAIN
 POSITIVE CLIMB ATTITUDE
 FLAPS..... RETRACT INCREMENTALLY

NORMAL PROCEDURES PA-28-181 PIPER PILOT

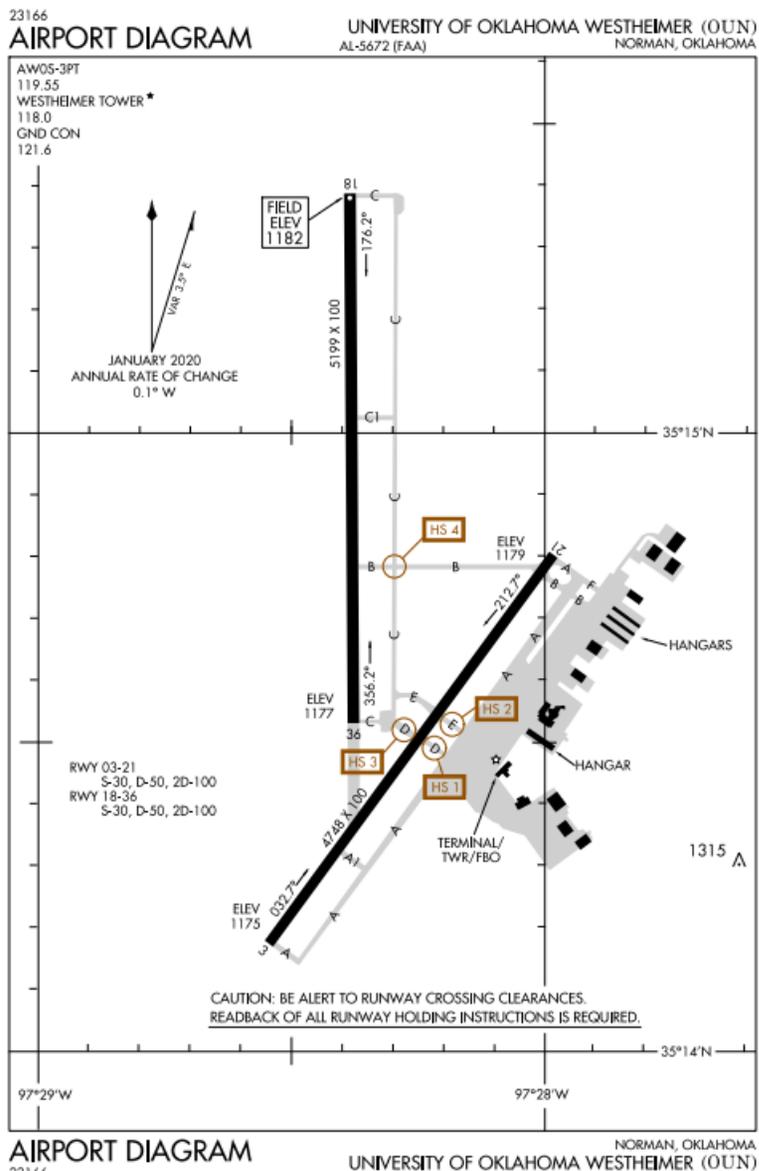
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NORMAL PROCEDURES PA-28-181 PIPER PILOT
BEFORE ENGINE START THROUGH ENGINE SHUTDOWN –
CHECKLIST WILL BE VERBALIZED

AFTER LANDING (AFTER CLEARING RUNWAY)

FLAPS.....RETRACT
 FUEL PUMP.....OFF
 LANDING LIGHTS.....AS REQUIRED
 TRANSPONDER.....LOCAL CODE & ALT



NORMAL PROCEDURES PA-28-181 PIPER PILOT
BEFORE ENGINE START THROUGH ENGINE SHUTDOWN –
CHECKLIST WILL BE VERBALIZED

ENGINE SHUTDOWN

PARKING BRAKE.....SET
 FLAPS.....VERIFY RETRACTED
 FUEL PUMP.....VERIFY OFF
 ELECTRICAL SWITCHES.....OFF
 ALTERNATOR.....OFF
 THROTTLE.....IDLE
 MIXTURE.....IDLE CUT-OFF
 LEFT/RIGHT MAG SWITCHES.....OFF
 INTERIOR LIGHTS.....OFF
 EXTERIOR LIGHTS.....OFF
 BATTERY MASTER.....OFF
 FUEL PRESSURE.....STABILIZE
 BILLING/MX TIME.....RECORD

POST-FLIGHT

- PUT SUN VISOR IN WINDOW (IN SUMMER)
- GATHER PERSONAL BELONGINGS – NO TRASH LEFT
- PLACE YELLOW PLACARD -- IF MX REQUIRED
- SECURE COCKPIT DOOR (TOP LATCH IF RAINING SOON)
- LOCK AIRCRAFT DOOR
- WALK AROUND AIRCRAFT – LOOK AT CONDITION STRAP DOWN (3 STRAP POINTS) OR CHOCK (IF NO STRAP AREA AVAILABLE CROSS-COUNTRY)

IF NECESSARY

- CLOSE FLIGHT PLAN
- TURN IN AIRCRAFT KEY TO DISPATCH OR NIGHT MX
- FILL OUT ANY SAFETY REPORTS ONLINE
- REPORT SQUAWKS OR ANY DISCREPANCY TO DISPATCH OR NIGHT MX
- TURN IN FUEL CARD WITH RECEIPT (IF USED)
- FILL OUT YOUR “PERSONAL LOGBOOK WITH FLIGHT TIME/DETAILS”

ABNORMAL PROCEDURES

HARD LANDING (TAXI TO MX AND INFORM AVIATION STAFF)
 UNCONTROLLED DEPARTURE FROM PAVEMENT (RUNWAY OR TAXIWAY)

- DO NOT ATTEMPT TO TAXI BACK ONTO PAVEMENT
- RUN ENGINE SHUTDOWN CHECKLIST
- CONTROLLED FIELD: NOTIFY TOWER AND ADVISE AIRCRAFT MUST BE TOWED
- UNCONTROLLED FIELD: CALL OU MOBILE PHONE AND INSTRUCTOR

SYMPTOMS OF VAPOR LOCK

- FLUCTUATION OF IDLE SPEED AND FUEL FLOW
- POOR ENGINE RESPONSE TO THROTTLE MOVEMENT
- ENGINE WILL NOT OPERATE WHEN THROTTLE IS CLOSED
- HIGH RPM DROP (GREATER THAN 175 RPM) DURING MAG CHECK

CORRECTIVE ACTION FOR VAPOR LOCK

- ADVANCE THROTTLE TO ~2000 RPM FOR 1-2 MIN OR UNTIL SMOOTH ENGINE OPERATIONS
- RETARD THROTTLE TO IDLE AND CHECK FOR SMOOTH OPERATION
- DURING TAXI, LEAN MIXTURE AND OPERATE AT A HIGH POWER SETTING (MAX 1200 RPM) AS PRACTICAL
- PRIOR TO TAKEOFF SET MIXTURE TO FULL RICH
- VERIFY SMOOTH ENGINE OPERATION DURING TAKEOFF ROLL

EMERGENCY PROCEDURES PA-28-181 PIPER PILOT

ENGINE FIRE DURING START

STARTER..... CONTINUE TO CRANK ENGINE
MIXTURE IDLE CUT-OFF
THROTTLE..... OPEN
FUEL PUMP..... OFF
FUEL SELECTOR OFF

IF FIRE CONTINUES

EVACUATE AIRCRAFT
USE FIRE EXTINGUISHER IF AVAILABLE

ENGINE FIRE IN FLIGHT

FUEL SELECTOR OFF
THROTTLE..... CLOSED
MIXTURE IDLE CUT-OFF
FUEL PUMP..... OFF
HEAT/DEFROSTER..... OFF
DEFROSTER..... OFF
VENTS..... OPEN

IF FIRE CONTINUES

AIRPEED INCREASE IN ATTEMPT TO BLOW OUT FIRE
ENGINE..... SECURE

ENGINE SECURE IN FLIGHT

FUEL SELECTOR OFF
LEFT/RIGHT MAGS OFF
THROTTLE..... CLOSED
MIXTURE IDLE CUT-OFF
SEAT BELTS TIGHTEN
DOOR UNLATCH
ELT ON
*PREPARE FOR EMERGENCY LANDING (66 KNOTS SHORT FINAL)

AFTER TOUCHDOWN

MASTER/ALTERNATOR..... OFF

ELECTRICAL FIRE

MASTER OFF
ALTERNATOR..... OFF
VENTS..... OPEN
HEAT/DEFROSTER..... OFF
FIRE EXTINGUISH
EMERGENCY DESCENT (IF NEEDED) TO A SAFE ALTITUDE
*LAND ASAP

EMERGENCY PROCEDURES PA-28-181 PIPER PILOT

ENGINE ROUGHNESS

ALT. AIR..... OPEN
IF ROUGHNESS CONTINUES AFTER 1 MIN
MIXTURE ADJUST FOR MAX SMOOTHNESS
ALT. AIR..... CLOSE
FUEL PUMP..... ON
FUEL SELECTOR SWITCH TANKS
ENGINE INDICATORS CHECK
LEFT/RIGHT MAGS INDIVIDUALLY
SELECT OFF AND ON

*LAND ASAP

ENGINE FAILURE/PARTIAL POWER LOSS

PITCH (BEST GLIDE) 76 KTS
TRIM 76 KTS
FIELD SELECT SUITABLE
FUEL SELECTOR SWITCH TANKS
LEFT/RIGHT MAGS OFF THEN ON
ONE AT A TIME
FUEL PUMP ON
THROTTLE..... ADJUST
MIXTURE..... RICH
ALT. AIR..... OPEN

IF POWER RESTORED

ALT. AIR..... CLOSE
FUEL PUMP..... OFF

IF POWER NOT RESTORED

TRANSPONDER 7700
RADIO 121.5

RADIO FAILURE

AUDIO PANEL VERIFY RADIO SELECTION
MIC JACK CHECK
VOLUME TEST
CIRCUIT BREAKERS..... IN
FREQUENCY CHECK
AUDIO CONTROL C.B. PULL
TRANSPONDER 7600

*FOLLOW LOST COMM PROCEDURES

OPEN DOOR

SLOW AIRPLANE TO 87 KIAS
CABIN VENTS CLOSE
IF UPPER LATCH IS OPEN LATCH
IF SIDE LATCH IS OPEN..... PULL ON ARMREST
WHILE CLOSING LATCH
IF BOTH..... CLOSE SIDE, THEN TOP LATCH

EMERGENCY PROCEDURES PA-28-181 PIPER PILOT

ALTERNATOR FAILURE

VERIFY FAILURE CHECK ALT AMPS INDICATION
ALTERNATOR OFF
ALT CIRCUIT BREAKER RESET IF TRIPPED
ALT FIELD CIRCUIT BREAKER RESET
ALTERNATOR ON

IF POWER NOT RESTORED

ALTERNATOR OFF
ELECTRICAL LOAD SHED

LAND AS SOON AS POSSIBLE

COMPLETE ELECTRICAL FAILURE

STANDBY INSTRUMENT VERIFY OPERATIONAL
AIRCRAFT CONTROL USE STANDBY INSTRUMENT
AIRSPEED DO NOT EXCEED 110 KIAS
AFTER ENGINE SHUTDOWN
STANDBY INSTRUMENT OFF (PRESS AND HOLD
PWR BUTTON FOR 5 SECONDS)

PFD FAILURE

STANDBY INSTRUMENTS VERIFY OPERATIONAL
AIRCRAFT CONTROL USE STANDBY INSTRUMENTS
AIRSPEED DO NOT EXCEED 110 KIAS
COM 1 (EXTERNAL COM) TUNE AS NECESSARY
NAVIGATION USE G5 DISPLAY
WITH GPS1 (EXTERNAL GPS)
OR NAV 2 (VOR/LOC/ILS) SOURCE INFO

EXIT AND AVOID IFR CONDITIONS AS SOON AS PRACTICAL.

Warning All aural alerts, except stall warning, become inoperative when the PFD fails. Maintain additional airspeed awareness during low and high speed flight.

EMERGENCY PROCEDURES PA-28-181 PIPER PILOT

CYLINDER HEAD TEMPERATURE

ENGINE PAGE SELECT
CYLINDER HEAD TEMPERATURES MONITOR
THROTTLE CONSIDER REDUCING
MIXTURE CONSIDER ENRICHENING
AIRSPEED CONSIDER INCREASING
IF CYLINDER HEAD TEMPERATURE CONTINUES TO RISE
THROTTLE MINIMUM REQUIRED
MIXTURE RICH
AIRSPEED INCREASE IF PRACTICAL
CYLINDER HEAD TEMPERATURES MONITOR

IF CYLINDER HEAD TEMPERATURE REMAINS IN WARNING RANGE

LAND AS SOON AS POSSIBLE

PREPARE FOR POWER OFF LANDING

OIL PRESSURE

LOW OIL PRESSURE

THROTTLE MINIMUM REQUIRED
IF HIGH OIL TEMP LAND AS SOON AS POSSIBLE
IF NORMAL OIL TEMP LAND AS SOON AS PRACTICAL

HIGH OIL PRESSURE

THROTTLE MINIMUM REQUIRED
LAND AS SOON AS PRACTICAL

OIL TEMPERATURE

THROTTLE MINIMUM REQUIRED
MIXTURE FULL RICH
AIRSPEED INCREASE IF PRACTICAL
LAND AS SOON AS POSSIBLE

SEE POH FOR OTHER EMERGENCIES OR ABNORMALITIES LISTED

- LOSS OF FUEL FLOW
- FUEL QUANTITY LOW
- ADAHRS FAILURE
- ADAHRS DEGRADED MODES
- ERRONEOUS OR LOSS OF ENGINE AND FUEL DISPLAYS
- LOSS OF NAVIGATION DATA
- AUTOPILOT OR ESP MALFUNCTIONS
- AUTOMATIC AUTOPILOT DISCONNECT
- ELECTRIC PITCH TRIM FAILURE
- ELECTRIC PITCH TRIM RUNAWAY
- ESP ACTIVATION
- AUTOPILOT OVERSPEED RECOVERY
- AUTOPILOT UNDERSPEED RECOVERY
- AUTOPILOT OUT-OF-TRIM
- ABNORMAL FLIGHT DIRECTOR MODE TRANSITIONS
- AUTOPILOT PREFLIGHT TEST FAILURE
- AUTOPILOT – LOSS OF NAVIGATION INFORMATION
- AUTOPILOT – LOSS OF AIRSPEED/ALTITUDE INFORMATION
- AUTOPILOT – LOSS OF GPS INFORMATION
- PITOT HEAT FAILURE
- STARTER ENGAGED
- SPIN RECOVERY

EMERGENCY PROCEDURES PA-28-181 PIPER PILOT

Warning Messages – Red

CAS Event	CAS Message	Checklist Page	Cause
CAS Warnings with Text Messages			
Alternator Amperage Exceedance	ALT AMPS	N/A	Alternator amperage is in the warning range.
Alternator Failure	ALTR FAIL	3-22	Alternator is turned ON and has failed, as determined by voltage regulator.
Cylinder Head Temperature Exceedance	CHT TEMP	3-19	Cylinder Head Temperature greater than 500°F.
Oil Pressure Exceedance	OIL PRESS	3-17	Oil Pressure less than 25 PSI or greater than 115 PSI.
Oil Temperature Exceedance	OIL TEMP	3-18	Oil Temperature greater than 245°F.
Propeller Overspeed	RPM	N/A	Propeller RPM greater than 2700 RPM.
Starter Engaged	START ENGAGE	3-48	Engine starter engaged.

Caution Messages - Amber

CAS Event	CAS Message	Checklist Page	Cause
CAS Cautions with Text Messages			
ADC Failure	ADC FAIL	3-28	The GSU 25 Air Data Computer has failed. Air data from the G5 is being displayed on the G3X Touch.
	ADC REVERT		
AHRS Failure	AHRS FAIL	3-28	The GSU 25 AHRS has failed. Attitude information from the G5 is being displayed on the G3X Touch.
	AHRS REVERT		
Altitude Miscompare	ALT MISCOMP	N/A	Conflicting altitude information between the G3X Touch and G5 displays.
Attitude Miscompare	ATT MISCOMP	N/A	Conflicting attitude information between the G3X Touch and G5 displays.
Cylinder Head Temperature	CHT TEMP	3-19	Cylinder Head Temperature between 490°F and 499°F.
EIS Failure	EIS FAIL	3-31	The Garmin Engine Airframe Interface Unit has failed.
Airspeed Miscompare	IAS MISCOMP	N/A	Conflicting airspeed information between the G3X Touch and G5 displays.
Pitot Heat Failure	P HEAT FAIL	3-47	Pitot heat is selected ON and is inoperative.
Pitot Heat OFF	P HEAT OFF	N/A	Pitot heat is selected OFF.

EMERGENCY PROCEDURES PA-28-181 PIPER PILOT

Advisory Messages – White

CAS Event	CAS Message	Checklist Page	Cause
CAS Advisories with Text Messages			
Air Data Computer Failure	ALT NO COMP	3-28	The GSU 25 Air Data Computer has failed.
AHRS Failure	ATT NO COMP	3-28	The GSU 25 AHRS has failed.
Air Data Computer Failure	IAS NO COMP	3-28	The GSU 25 Air Data Computer has failed.

SYMPTOMS OF VAPOR LOCK

- FLUCTUATION OF IDLE SPEED AND FUEL FLOW
- POOR ENGINE RESPONSE TO THROTTLE MOVEMENT
- ENGINE WILL NOT OPERATE WHEN THROTTLE IS CLOSED
- HIGH RPM DROP (GREATER THAN 175 RPM) DURING MAG CHECK

CORRECTIVE ACTION FOR VAPOR LOCK

- ADVANCE THROTTLE TO ~2000 RPM FOR 1-2 MIN OR UNTIL SMOOTH ENGINE OPERATIONS
- RETARD THROTTLE TO IDLE AND CHECK FOR SMOOTH OPERATION
- DURING TAXI, LEAN MIXTURE AND OPERATE AT A HIGH POWER SETTING (MAX 1200 RPM) AS PRACTICAL
- PRIOR TO TAKEOFF SET MIXTURE TO FULL RICH
- VERIFY SMOOTH ENGINE OPERATION DURING TAKEOFF ROLL

COMMON FREQUENCIES

Max Westheimer (KOUN)

AWOS 119.55
Ground..... 121.60
Tower..... 118.00
LOC IPHY 111.10
ILS IBWM..... 111.95
OU Traffic 123.30
Cruise Aviation..... 122.95

David Jay Perry (1K4)

CTAF 122.7

Chickasha (KCHK)

AWOS 118.175
CTAF 123.00

Shawnee (KSNL)

AWOS 118.275
CTAF 122.70

Will Rogers (KOKC)

ATIS 125.85
Clearance Delivery ... 124.35
Ground..... 121.90
Tower..... 119.35
IRW 114.10

Okla. City Approach Control

NW..... 124.60
NE 124.20
SW 124.60
SE..... 120.45
S 133.60

Transponder Codes

7500 Hijack
7600 Lost Comm.
7700 Emergency

Contact Numbers

Aviation Department
405-325-7231
Mobile Phone
405-919-6319
OU Police Department
405-325-1717

- **Outbound Traffic:**
 - Contact Tower and advise direction of flight (Southeast for checkpoints 1-6, Southwest for checkpoints 7-12)
 - After takeoff, fly to waypoint Y or Z, per your training checkpoint assignment. Tower will assign a departure turn appropriate for your direction of flight.
 - On departure, climb out at-or-above 3,500 MSL and proceed from waypoint Y or Z directly to your assigned training area.
- **Inbound Traffic:**
 - Complete “In-Range Checklist” and contact Tower prior to leaving your assigned practice area.
 - Initial contact should include aircraft identification, position relative to OUN, and intentions. (i.e. “inbound for landing”)
 - Circle over your training area until Tower gives you instructions.
 - Once you have instructions, proceed inbound to OUN at an altitude of 2,500 MSL, regardless of arrival routing unless flying over David Jay Perry Airport (1K4). This increases aircraft separation with departing traffic.

