PI-AE

Pipistrel Alpha Electro Standard procedures

PRE TAKE OFF

BREIFING_____CONFIRMED
FLAPS _____STAGE 1
NAV LIGHTS _____ON
LANDING LIGHT _____ON
FLIGHT CONTROLS _____TEST
CABIN _____ READY

TAKE OFF/UPWIND

POWER_____APPLY 55KW
CHECK SYSTEM FOR WARNINGS
CLIMB SPEED_____70KIAS
FLAPS_____RETRACT
POWER_____REDUCE TO 44KW
LANDING LIGHT _____OFF

DOWNWIND

CABIN _____OK
TEMPS _____OK
UNDERCARRIAGE _____FIXED
BRAKES_____CHECKED
BATTERY _____OK
SPEED _____80KIAS

APPROACH-FINAL

BREIFING_____CONFIRMED
LANDING LIGHTS_____ON
SPEED_____ <60KIAS
FLAPS _____STAGE 2
TRIM _____SET
CABIN _____READY

MOTOR RESTART IN FLIGHT

POWER LEVER_____FULL BACK
SWITCHES RIGHT TO LEFT__ OFF
PWR CTRL BREAKER _____PULL
COUNT TO 3
SWITCHES LEFT TO RIGHT__ ON
POWER_____SLOWLY RE-APPLY

RADIO FAILURE IN FLIGHT

RADIO_____TURN OFF THEN ON
RADIO_____TEST FUNCTION
IF STILL NO FUNCTION
SQUAWK_____7600
WHEN IN SIGHT OF ATC TOWER ROCK AIRCRAFT WINGS
FLY OVERHEAD THE FIELD AND FOLLOW NORMAL TRAFFIC PATTERN PROCEDURES

EPSI FAILURE IN FLIGHT

WITH POWER TO MOTOR
DO NOT SWITCH THE MOTOR OFF, FLY TO THE CLOSEST AIRFIELD AND LAND
WITHOUT POWER TO MOTOR
ATTEMPT RESTART AND IF NESCESSARY, COMPLETE EMERGENCY LANDING

POWERTAIN FIRE IN FLIGHT

POWER LEVER_____FULL BACK
MASTER SWITCH_____ OFF
PWR CTRL BREAKER _____PULL
PERFORM EMERG. LANDING

EMERGENCY LANDING

FIELD SELECTION__DETERMINE
WIND DIRECTION__DETERMINE
HIGH KEY_____2500FT
SURROUNDINGS_____CHECK
SIZE_____SURFACE_____SLOPE
MAYDAY MAYDAY MAYDAY
SQUAWK_____7700
STATUS_ANNOUNCE ON RADIO
LOW KEY_____1500FT
POWER LEVER_____FULL BACK
MASTER SWITCH_____ OFF
HARNESSES_____SECURE
LAND OUT

BATTERY SOC ESTIMATION BY VOLTAGE

VOLTAGE	APPROX. SOC%
401V	100%
390V	90%
380V	80%
370V	68%
360V	54%
350V	42%
340V	30%
330V	20%

DAILY/PRE FLIGHT INSPECTION	
MOTOR/MOTOR COVER	CHECK FOR COOLANT LEAKAGE, FASTENERS AND SCREWS TIGHTENED, MOTOR COVER UNDAMAGED
BATTERIES	CHECK FASTENERS, CONNECTORS AND COOLING INLET/OUTLET CLEAR OF OBSTRUCTIONS
SPINNER/PROPELLER	CHECK UNDAMAGED AND FASTENED
CONTROL SURFACES	INSPECT ALL EDGES, WING TIPS, FLAPERONS, ELEVATOR, RUDDER FOR AIRWORTHINESS
UNDERCARRIAGE	CHECK TYRE PRESSURES, TYRES, BRAKES AND UNDERCARRIAGE FOR DAMAGE/WEAR
MAIN WING SPARS AND CONNECTORS	- VISUAL INSPECTION, BOLTS TIGHT + IN POSITION
PITOT STATIC LINES/ LIGHT CABLES	- CONNECTED PROPERLY AND IN POSITION
MASTER, AVIONICS SWITCH	ON: - EPSI570 IS ENABLED, INSTRUMENTS ON, ALL INSTRUMENTS CLEAR OF OBSTRUCTION/DAMAGE
BATTERY RESET	RESET BATTERIES (FIRST FLIGHT OF THE DAY ONLY)
FLIGHT LOG	**ACKNOWLEDGE MAINTENANCE RELEASE AND START FLIGHT IN BREEZYLOG**
SET ALL INSTRUMENTS TO INITIAL SETTING	QNH, TRANSPONDER, COMM FREQUENCY, AH CALIBRATION
RADIO	CHECK, (REQUEST START/TAXI CLEARANCE)
ELEVATOR TRIM	- VERIFY TRAVEL, SET TO NUETRAL
FLAP HANDLE	LOCKING MECH FIRM, SMOOTH MOVEMENT
PARKING BRAKE	APPLIED
CONTROLS	FREE OF ALL/ANY OBSTRUCTIONS
DOORS SAFETY BELTS	CLOSED, SECURED/FASTENED
BPRS SAFETY PIN	REMOVE AND STOW
BATT EN, PWR EN SWITCH	ON - CHECK BATTERY %SOC, CHECK VALUES/ CHECK TEMP, NO WARNINGS
POWER AND BRAKES	CELAR PROP, APPLY POWER, TEST BRAKES
COOLANT TEMP M/I	CHECK DURING TAXI FOR PROGRESSIVE CHANGE