

Arapahoe Flight Club

PA-28 NORMAL PROCEDURES (V 3.1)



PREFLIGHT PREPARATION	
INTERIOR/EXTERIOR INSP.	COMPLETE
CHOCKS/TOWBAR	REMOVED
FLAPS	RETRACTED
WEIGHT & BALANCE	VERIFIED
PED'S	SET
SEATS/SEATBELTS	SECURE
MASTER/AVIONICS	ON
ATIS/AWOS/CLEARANCE	RECEIVED
MASTER/AVIONICS	OFF
ELECTRICAL EQUIPMENT	OFF
PASSENGER BRIEF	COMPLETE

BEFORE ENGINE START	
PARKING BRAKE	SET
FUEL SELECTOR	___ TANK
KEY	IN/READY
PRIMER	IN/LOCKED
THROTTLE/MIXTURE	SET
CARBURETOR HEAT	OFF
MASTER	ON
FUEL PUMP	ON
BEACON/ANTI-COLLISION	ON
TIME	NOTE/TIMER
PROP AREA	"CLEAR"

AFTER ENGINE START	
THROTTLE	1000 RPM
OIL PRESS/ENGINE INSTR	CHECK
VOLTS/AMPS	CHECK
MIXTURE	LEAN FOR TAXI
FUEL PUMP	OFF
AVIONICS/RADIOS	ON/SET

BEFORE TAXI	
ALTIMETER	SET
TRANSPONDER/ADS-B OUT	ALT/ON
LIGHTS	AS REQD
PARKING BRAKE	RELEASED

TAXI	
BRAKES	CHECKED
STEERING	CHECKED
GYROS	CHECKED

RUN-UP	
FUEL SELECTOR	CHANGE TANK
THROTTLE	MAX RPM
MIXTURE	LEANED
THROTTLE	2000 RPM
MAGNETOS	CHECKED
CARBURETOR HEAT	CHECKED
VOLTS/AMPS	CHECKED
VACUUM PRESSURE	CHECKED
ENGINE INSTRUMENTS	CHECKED
THROTTLE	IDLE, 1000 RPM
CARBURETOR HEAT	OFF
FUEL SELECTOR	FULLEST TANK

BEFORE TAKEOFF	
PITCH TRIM	SET
FLAPS	0°/25°
RUDDER TRIM	SET
FUEL PUMP	ON
PITOT HEAT	AS REQD
CIRCUIT BREAKERS	CHECKED

BEFORE TAKEOFF - CONTINUED	
TRANSPONDER/ADS-B Out	VERIFY ALT/ON
COMMS/NAV	SET
FLIGHT INSTRUMENTS	SET
AUTOPILOT (IF EQUIPED)	OFF
DOOR & WINDOW	CLOSED/LOCK
FLIGHT CONTROLS	FREE
TAKEOFF BRIEF	COMPLETED

TAKING RUNWAY	
ANTI-COLLISION/LANDING	ON
TIME	NOTED

AFTER TAKEOFF/ABOVE 1000' AGL	
FLAPS	VERIFY UP
FUEL PUMP	OFF
ENGINE INSTRUMENTS	CHECKED

CRUISE	
POWER	SET
MIXTURE	LEAN AS REQD
LIGHTS	AS REQD
HEADING INDICATOR	CHECK :15 MIN
FUEL TANKS	SWITCH :30 MIN
AUTOPILOT (IF EQUIPED)	ON/OFF

DESCENT	
MIXTURE	SET
SEAT BELTS	SECURE
APPROACH BRIEF	COMPLETED
LIGHTS	ON

BEFORE LANDING	
FUEL PUMP	ON
CARBURETOR HEAT	AS REQD
FUEL SELECTOR	FULLEST TANK
MIXTURE	SET
FLAPS	SET

Arapahoe Flight Club

PA-28 MISC. PROCEDURES (V 3.1)

AFTER LANDING	
FLAPS	RETRACTED
FUEL PUMP	OFF
LIGHTS	AS REQD
PITOT HEAT	OFF

PARKING	
AVIONICS/COMMS	OFF
TRANSPONDER/ADSB-OUT	OFF
MIXTURE	IDLE CUTOFF
ANTI-COLLISION/LIGHTS	OFF
MASTER	OFF
MAGNETORS/KEY	OFF/OUT
PARKING BRAKE	SET
FLIGHT PLAN (AS REQD)	CLOSE
HOBBS/TACH	RECORD
AIRCRAFT DISPATCH	CHECK - IN
WINDSHIELD	CLEAN

ENSURE AIRCRAFT BOOKS, KEYS AND LOGS ARE PROPERLY CHECKED IN

AIRCRAFT SPEEDS	
Vr (Rotation Speed)	55 MPH
Vx (Best Angle of Climb)	74 MPH
Vy (Best Rate of Climb)	85 MPH
Va (Maneuvering Speed)	129 MPH
Vfe (Max Flap Extended Speed)	115 MPH
Vno (Max Structural Cruising Speed)	140 MPH
Vne (Never Exceed Speed)	171 MPH
Vs1 (Stall Speed - Clean)	67 MPH
Vso (Stall Speed - Dirty)	49 MPH
Vglide	80 MPH

* POH/AFM are the final authority for this information. Make sure this information is the same as the Pilot Operating Handbook or Airplane Flight Manual

STARTING ENGINE WHEN HOT	
THROTTLE	1/2 INCH OPEN
MASTER SWITCH	ON
ANTI COLLISION LIGHTS	ON
ELECTRIC FUEL PUMP	ON
MIXTURE	SET
PROPELLER	CLEAR
STARTER	ENGAGE
THROTTLE	ADJUST
OIL PRESSURE	CHECK

STARTING ENGINE WHEN FLOODED	
THROTTLE	FULL OPEN
MASTER SWITCH	ON
ANTI COLLISION LIGHTS	ON
ELECTRIC FUEL PUMP	OFF
MIXTURE	IDLE CUT OFF
PROPELLER	CLEAR
STARTER	ENGAGE
MIXTURE	SET
THROTTLE	RETARD
OIL PRESSURE	CHECK

STARTING ENGINE WITH EXTERNAL POWER	
MASTER SWITCH	OFF
ALL ELECTRICAL POWER	OFF
TERMINALS	CONNECT
EXTERNAL POWER PLUG	INSERT
PROCEED WITH NORMAL START	
THROTTLE	LOWEST POSSIBLE RPM
EXTERNAL POWER PLUG	DISCONNECT
MASTER SWITCH	ON - CHECK AMMETER
ANTI COLLISION LIGHTS	ON
OIL PRESSURE	CHECK

NORMAL TAKE OFF	
FLAPS	SET
TRIM	NEUTRAL
ACCELERATE TO	45 TO 55 MPH
CONTROL WHEEL	BACK PRESSURE

SHORT FIELD, OBSTACLE CLEARANCE	
FLAPS	25 DEGREES
APPLY FULL POWER	BEFORE BRAKE RELEASE
ACCELERATE TO	55 MPH
CONTROL WHEEL	BACK PRESSURE
MAINTAIN 52 MPH	TO OBSTACLE CLEARANCE
ACCELERATE TO DURING CLIMB	85 MPH
RETRACT FLAPS	SLOWLY

SOFT FIELD	
FLAPS	25 DEGREES
CONTROL WHEEL -	BACK PRESSURE, ROTATE AT LOWEST POSSIBLE SPEED
ACCELERATE TO	55 MPH
ACCELERATE TO DURING CLIMB	85 MPH
RETRACT FLAPS	SLOWLY

FREQUENCIES	
KCOS - Ground	121.70
kCOS - Clearance Delivery	134.45
KCOS - ATIS	125.00
KCOS - Tower	119.90
KCOS - Approach	120.60
KFLY - AWOS 3PT	118.45
KFLY - CTAF	122.70
KPUB - ATIS	125.25
KPUB - Ground	121.90
KPUB - Tower	119.10
DENVER APPROACH	120.10
DENVER DEPARTURE	120.10