

CRM71 PA-28-200R ARROW – NORMAL PROCEDURES
BEFORE ENGINE START THROUGH ENGINE SHUTDOWN – CHECKLIST WILL BE VERBALIZED

BEFORE ENGINE START

TACH TIME..... CHECK TIME REMAINING
 HOBBS TIME..... RECORD
 PARKING BRAKE..... SET
 PASSENGER BRIEF..... COMPLETE
 SEATBELTS AND HARNESSES..... FASTEN AND SECURE
 CABIN DOOR..... CLOSE AND SECURE

ENGINE START

CIRCUIT BREAKERS..... IN
 AVIONICS MASTER..... OFF
 PROPS..... FULL
 THROTTLE..... OPEN ¼ INCH
 FUEL SELECTOR..... CYCLED
 MASTER..... ON
 ALT..... ON
 ANTI COLLISION LIGHTS..... ON
 FUEL PUMP..... ON
 MIXTURE..... FWD UNTIL FUEL FLOW
 MIXTURE..... IDLE CUT-OFF
 FUEL PUMP..... OFF
 AREA..... CLEAR
 STARTER..... ENGAGE
 MIXTURE..... RICH WHEN ENGINE FIRES
 OIL PRESSURE..... CHECK
 FUEL PRESSURE..... CHECK
 THROTTLE..... 1000

HOT START

PROPS..... FULL
 THROTTLE..... OPEN ½ INCH
 MASTER SWITCH..... ON
 ALT..... ON
 FUEL PUMP..... ON
 MIXTURE..... IDLE CUT-OFF
 AREA..... CLEAR
 STARTER..... ENGAGE
 MIXTURE..... RICH WHEN ENGINE FIRES

FLOODED ENGINE

PROP..... FULL
 THROTTLE..... FULL
 MASTER..... ON
 ALT..... ON
 FUEL PUMP..... OFF
 MIXTURE..... IDLE CUT-OFF
 AREA..... CLEAR
 STARTER..... ENGAGE
 MIXTURE..... ADVANCE

PRE-TAXI

AVIONICS..... ON, TEST
 AWOS/ATIS..... CHECK
 ALTIMETER/DG..... SET
 TRANSPONDER..... 1200 & STBY
 FUEL SELECTOR..... FULLEST TANK
 BRAKES..... TEST

ENGINE RUN-UP

PARKING BRAKE..... SET
 FLIGHT CONTROLS..... FREE & CORRECT
 FLAPS..... CHECK
 ELEVATOR TRIM..... SET
 RUDDER TRIM..... SET
 FUEL PUMP..... ON
 FUEL PRESSURE..... CHECK
 FUEL PUMP..... OFF
 MIXTURE..... FULL RICH
 PROPS..... FULL
 THROTTLE..... 2000 RPM
 ENGINE INSTRUMENTS..... CHECK
 PROPELLER..... EXERCISE
 AMMETER..... CHARGING
 PITOT HEAT..... CHECK
 VACUUM GAUGE..... 4.5 – 5.2 / HG
 MAGNETOS..... CHECK L & R
 (MAX DROP 175 & MAX DIFF 50 RPM)

ALTERNATE AIR..... CHECK
 THROTTLE..... 1000 RPM
 ALT..... Off/Check amps/ON
 AUX VACUUM PUMP..... ON, CHECK GAUGE 4.8 - 5.2 / HG
 AUX VACUUM PUMP..... OFF
 ANNUNCIATOR PANEL..... CHECK
 FLIGHT INSTRUMENTS..... CHECK AND SET
 CABIN DOORS..... LATCHED

BEFORE TAKE-OFF!! SEE POH ITEMS!!

TYPE OF TAKEOFF..... DETERMINE
 FLAPS..... AS REQUIRED
 AIRSPEED: ROTATION, CLIMB OUT,
 AND BEST GLIDE..... CALCULATE (GUST SPREAD)
 PRE-TAKEOFF BRIEFING..... COMPLETE
 FUEL PUMP..... ON
 ANTI-COLLISION LIGHTS..... ON
 LANDING LIGHT..... ON
 TRANSPONDER..... SQUAWK ALT
 MIXTURE..... RICH
 PROPS..... FULL
 CABIN DOOR..... LATCHED
 TAKE-OFF TIME..... RECORD
 ** RESET HEADING INDICATOR AFTER TAXIING ONTO RUNWAY**

CLIMB (BETWEEN 500 AND 1500 AGL)

POWER/PROP..... SET
 GEAR/FLAPS..... UP
 TRIM..... SET
 FUEL PUMP..... OFF
 FUEL PRESSURE..... CHECK
 LANDING LIGHT..... OFF

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

POWER/PROP..... SET
 TRIM..... SET
 HEADING INDICATOR..... SET
 MIXTURE..... AS REQUIRED
 TRUE AIR SPEED (X/C FLT)..... VERIFY

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

AWOS/ATIS..... CHECK
 ALTIMETER..... SET
 MIXTURE..... RICH
 FUEL PUMP..... ON
 FUEL PRESSURE..... CHECK
 FUEL SELECTOR..... FULLEST TANK
 LANDING LIGHT..... ON
 SEATBELTS..... FASTEN AND SECURE

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

APPROACH SPEED ON FINAL..... CALCULATE
 FLAP SETTING ON FINAL..... DETERMINE
 LANDING GEAR..... DOWN/LOCKED (TOUCH 3 GREEN)
MEMORY
PROPELLER (PRIOR TO BASE OR FAF)..... FULL INCREASE
LANDING GEAR ON FINAL..... DOWN/LOCKED (TOUCH 3 GREEN)

AFTER LANDING (AFTER CLEARING RUNWAY)

FLAPS..... UP
 FUEL PUMP..... OFF
 LANDING LIGHT..... AS REQUIRED
 TRANSPONDER..... 1200 & STBY

ENGINE SHUTDOWN

AVIONICS MASTER..... OFF
 THROTTLE..... 1000 RPM
 PROPS..... FULL
 NAV, PANEL, AND OVERHEAD LIGHTS..... OFF
 ELECTRICAL SWITCHES..... OFF
 MIXTURE..... IDLE CUT OFF
 MAGNETOS..... OFF
 MIXTURE..... FULL RICH
 FUEL PRESSURE..... ZERO
 MIXTURE..... IDLE CUT OFF
 MASTER SWITCH..... OFF
 VENT WINDOW..... CLOSED
 HOBBS TIME..... RECORD

POST-FLIGHT

CABIN DOOR..... SECURED
 AIRCRAFT..... TIED DOWN OR CHOCKED
 WALK AROUND AIRCRAFT..... NOTE GENERAL CONDITION

CRM 71 PA-28-200R ARROW – EMERGENCY PROCEDURES

EMERGENCY GEAR EXTENSION

MASTER ON
 ALT ON
 CIRCUIT BREAKERS CHECK
 NAV LIGHT SWITCH OFF (DAYTIME)
 GEAR INDICATOR CHECK BULBS
 EMERGENCY GEAR LEVER FULL UP
 AIRSPEED 87 KIAS
 GEAR SELECTOR DOWN
 EMERGENCY GEAR LEVER HOLD DOWN
 *IF GEAR NOT CHECK "DOWN", YAW AIRPLANE ABRUPTLY FROM SIDE TO SIDE

ENGINE FIRE DURING START

STARTER CONTINUE TO CRANK
 MIXTURE IDLE/CUT OFF
 THROTTLE OPEN
 FUEL PUMP OFF
 FUEL SELECTOR OFF

IF FIRE CONTINUES

- ➔ EVACUATE AIRCRAFT
- ➔ USE FIRE EXTINGUISHER IF AVAILABLE
- ➔ CONTACT FIRE DEPARTMENT

ENGINE FIRE IN FLIGHT

FUEL SELECTOR OFF
 THROTTLE CLOSED
 MIXTURE IDLE CUT-OFF
 FUEL PUMP OFF
 CABIN HEAT OFF
 DEFROSTER OFF
 INITIATE EMERGENCY DESCENT PLAN FOR OFF AIRPORT LANDING

ELECTRICAL FIRE

MASTER OFF
 ALT OFF
 CABIN VENTS AND WINDOWS OPEN
 CABIN HEAT OFF
 DEFROSTER OFF
 LAND ASAP

ELECTRICAL OVERLOAD

BATTERY SWITCH OFF
 ALT SWITCH OFF
 ELECTRICAL LOAD MINIMIZE

ELECTRICAL FAILURE

ELECTRICAL LOAD REDUCE
 ALT CIRCUIT BREAKER RESET
 ALT SWITCH RECYCLE

DOOR OPEN IN FLIGHT

AIRSPEED BELOW 87 KIAS
 CABIN VENTS CLOSED
 STORM WINDOW OPEN
 PULL ON ARM REST WHILE MOVING LATCH HANDLE TO LATCH POSITION
 TOP LATCH SECURE

RADIO FAILURE

AUDIO PANEL CHECK AUTO ON "PHONES"
 MIC JACK CHECK
 VOLUME TEST
 CIRCUIT BREAKERS IN
 FREQUENCY CHECK
 TRANSPONDER 7600
 *FOLLOW LOST COMM PROCEDURES

ENGINE FAILURE/PARTIAL POWER LOSS IN FLIGHT

LANDING FIELD SELECT
 AIRSPEED AS REQUIRED (79 L/D MAX)
 FUEL SELECTOR SWITCH TANKS
 MAGNETOS CYCLE
 THROTTLE OPEN
 ALTERNATE AIR ON
 FUEL PUMP ON
 ENGINE INSTRUMENTS CHECK
 TRANSPONDER SQUAWK 7700
 COMM 121.5 MAYDAY

PROPELLER OVERSPEED

THROTTLE RETARD
 OIL PRESSURE CHECK
 PROP CONTROL FULL DECREASE
 AIRSPEED REDUCE
 THROTTLE BELOW 2700 RPM

ENGINE SECURE IN FLIGHT

FUEL SELECTOR OFF
 MAGNETOS OFF
 THROTTLE CLOSED
 MIXTURE OFF
 FUEL PUMP OFF
 NON-ESSENTIAL ELECTRICAL SWITCH OFF

OFF AIRPORT LANDING

ENGINE SECURE
 SEATBELTS ON AND SECURE
 DOORS UNLATCHED
 ELT ARM
 MASTER SWITCH OFF
 AIRSPEED 79 KIAS
 GEAR DOWN

(GEAR UP FOR ROUGH TERRAIN OR WATER LANDING)

PLAN SHORT FIELD LANDING. SLOW TO 90 MPH ON FINAL.

AFTER LANDING

- ➔ EVACUATE AIRCRAFT
- ➔ ACTIVATE ELT
- ➔ ADMINISTER FIRST AID

ICING CONDITIONS

PITOT HEAT ON
 WINDOW DEFROST ON
 CABIN HEAT ON

CONSIDER 180° TURN OR DESCEND TO LOWER ALTITUDE
LAND AS SOON AS POSSIBLE

FLAPS RETRACTED
 USE HIGHER THAN NORMAL APPROACH SPEED

VACUUM PUMP FAILURE IFR

- ➔ PARTIAL PANEL
- ➔ ACTIVATE ELECTRIC VACUUM PUMP IF EQUIPPED
- ➔ NOTIFY ATC OF MALFUNCTION
- ➔ IF VFR, STAY VFR
- ➔ LAND AS SOON AS PRACTICAL

LOST COMM IFR

RADIO FAILURE CHECKLIST RUN
 ALTITUDE MEA, EXPECTED, ASSIGNED
 ROUTING ASSIGNED, VECTORED, EXPECTED, FILED