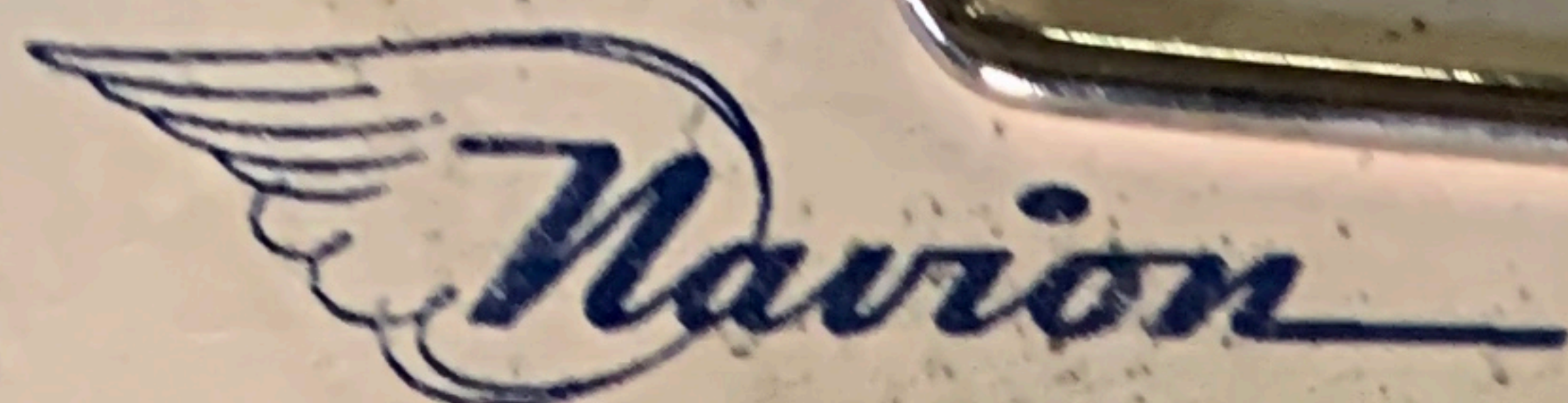




***** ENGINE START *****

***** BEFORE TAKEOFF *****

***** PREFLIGHT *****

REQUIRED DOCUMENTS	ARROW
MAGNETOS	OFF
MASTER SWITCH	OFF
HYDRAULIC	ON
LANDING GEAR	DOWN
FLAPS	UP
GUST LOCK	REMOVED
LEFT MAIN GEAR/TIRE/BRAKE	CHECK
LEFT WING/TIEDOWN	CHECK
LEFT TIP TANK SUMP	DRAIN
LEFT FLAP/AILERON	CHECK
LEFT STATIC PORT	CHECK
FUSELAGE/ANTENNAS	CHECK
STABILIZER/ELEVATOR/RUDDER	CHECK
RIGHT STATIC PORT	CHECK
AUX. FUEL LEVEL & CAP	CHECK
RIGHT FLAP/AILERON	CHECK
RIGHT TIP TANK LEVEL/SUMP	DRAIN
PITOT TUBE	CHECK
STALL SWITCH	CHECK
RIGHT WING/TIEDOWN	CHECK
MAIN FUEL LEVEL & CAP	CHECK
MAIN FUEL SUMP	DRAIN
GASCOLATOR SUMP	DRAIN
RIGHT MAIN GEAR/TIRE/BRAKE	CHECK
RIGHT ENGINE COMPARTMENT	CHECK
RIGHT COWL	SECURE
PROP/SPINNER	CHECK
AIR FILTER	CHECK
HYDRAULIC RESERVOIR	CHECK
ENGINE OIL	CHECK
LEFT ENGINE COMPARTMENT	CHECK
LEFT COWL	SECURE
NOSE GEAR ASSEMBLY/CHOCK	CHECK

SEATS/SEAT BELTS	COMPLETE
FUEL/TIP TANKS	OFF
FUEL	MAIN
BRAKES	SET
COWL FLAPS	OPEN
FUEL PUMP	ON
CARB. HEAT	OFF
MIXTURE	RICH
PROP	FULL FWD.
THROTTLE	OPEN 1/8"
TRIM	SET
FLAPS	UP
LANDING GEAR	DOWN
HYDRAULIC POWER	ON
MAGNETOS	BOTH
MASTER SWITCH	ON
PRIME	2 (COLD)
PROPELLER	CLEAR
OIL COOLER	OPEN
STARTER	ENGAGE
THROTTLE	1000 RPM
OIL PRESSURE	CHECK
AMMETER	CHECK
FUEL PUMP	OFF
FUEL PRESSURE	CHECK

***** BEFORE TAXI *****

MIXTURE	RICH
AVIONICS MASTER	ON
RADIOS	ON/SET
NAVIGATION AIDS	SET
TRANSPONDER	STANDBY
ALTIMETER	SET
DIRECTIONAL GYRO	SET
MARKER RECEIVER	TEST
GPS/NAV CONTROL LAMPS	TEST
NAV LIGHTS	CHECK
LANDING LIGHTS	AS REQ'D
PARKING BRAKE	RELEASE
BRAKES	TEST

PARKING BRAKE	SET
COWL FLAPS	OPEN
FUEL PUMP	ON
MIXTURE	RICH
HYDRAULIC POWER	ON
THROTTLE	1700 RPM
CARB. HEAT	CHECK
MAGNETOS (175/50)	CHECK
ENGINE INSTRUMENTS	CHECK
AMMETER	CHECK
SUCTION GAUGE	CHECK
THROTTLE	2000 RPM
PROP	CYCLE 2X
THROTTLE	IDLE/1000
CIRCUIT BREAKERS	CHECK
TRIM TAB	SET
DIRECTIONAL GYRO	SET
PITOT HEAT	AS REQ'D
FLAPS	CYCLE/SET
ENGINE PRIMER	LOCKED
FLIGHT CONTROLS	FREE
SEAT BELTS	SECURE
CANOPY	LATCHED
TRANSPONDER	ALT
ANTI-COLLISION LIGHTS	ON
LANDING LIGHTS	ON
AUTOPILOT	OFF
CROSSWIND	CHECK
PARKING BRAKE	RELEASE

**** AIRSPEEDS (MPH/KNOTS) ****

BEST ANGLE (V _x)	70 / 61
BEST GLIDE	80 / 70
BEST RATE (V _y)	95 / 82
GEAR EXTENSION (V _{Lo})	100 / 87
FLAP EXTENSION (V _{FE})	100 / 87
DESIGN MANEUVERING (V _A)	124 / 108
MAX. STRUCTURAL CRUISE (V _{No})	160 / 139
NEVER EXCEED (V _{NE})	190 / 167

- must be open and unobstructed
- Follow check list in aircraft cabin for further items of importance
 - Aircraft documents must be in aircraft -
CERTIFICATE OF REGISTRATION
CERTIFICATE OF AIRWORTHINESS
AIRPLANE FLIGHT MANUAL
RADIO STATION LICENSE
LOG BOOKS "ENGINE & AIRFRAME"

FUEL CAPACITY

MAIN TANKS	39.5 gallons
RIGHT TIP TANK	20.0 gallons
LEFT TIP TANK	20.0 gallons
TOTAL FUEL	79.5 gallons

BEST ANGLE OF CLIMB	75 mph
BEST RATE OF CLIMB	90 mph
APPROACH SPEED	90 mph