

PREFLIGHT

COCKPIT PREPERATION

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|-----------------|-----------------|-----------------|
| 1.DOCUMENTS | 6.CARB HEAT | 11.MIXTURE |
| 2.BAGGAGE COMPT | 7.CABIN HEAT | 12. ALTIMETER |
| 3.REAR COCKPIT | 8.TRIM | 13.PRIMER |
| 4.L TANK QNTY | 9.FUEL SELECT | 14.MASTER (OFF) |
| 5.MAGS | 10.FLAPS (DOWN) | 15 R TANK QNTY |

PREFLIGHT

EXTERIOR

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|-------------------------------|--------------------------------|-------------------------|
| 1. R WING LE | 14. TOW HOOK | 27. L FUEL CAP/
QNTY |
| 2. R WING TIP | 15. L ELEVATOR | 28. L WHEEL/BREAK |
| 3. R WING BOTTOM | 16. L EMPENNAGE | 29. L ENG CMPT |
| 4. R LIFT STRUT | 17. TOP FUSELAGE | FUEL STRAINER |
| 5. R WING FULE
TANK SAMPLE | 18. L FUSELAGE | 30.PROP |
| 6. R FLAP | 19. BOT FUSELAGE | 31. AIR FILTER |
| 7. R AILERON | 20. L WING TOP | 32. R ENG CMPT |
| 8. R WING TOP | 21. L AILERON | OIL QNTY |
| 9. R FUSELAGE | 22. L FLAP | 33. EXHAUST STACK |
| 10. R EMPENNAGE | 23. L WING FUEL
TANK SAMPLE | 34. R FUEL CAP/
QNTY |
| 11. R ELEVATOR | 24. L LIFT STRUT | 35. R WHEEL/BREAK |
| 12. RUDDER | 25. L WING TIP | 36.WINDSHEILD CLN |
| 13. TAIL WHEEL | 26. L WING LE | |

PRESTART

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|---------------------------|------------------------------|
| 1. SEATS – ADJ/LOCKED | 7. PRIME – AS REQ'D/IN/LCKD/ |
| 2. SEATBELT /S – FASTENED | 8. RADIOS/ELEC – OFF |
| 3. MAGS – OFF | 9. THROTTLE – CYCLE/CRACK |
| 4. CARB HT – COLD | 10. MAGS –LEFT ON |
| 5. FUEL – AS REQ'D | 11. MASTER – ON |
| 6. MIXTURE – RICH | 12. BREAKS –CHECK/ON |

START

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|-------------------------|-----------------------------|
| 1. PROP – “CLEAR” | 5. THROTTLE – 1000 RPM |
| 2. STARTER – ENGAGE/REL | 6. OIL PRESSURE – CHECK |
| 3. BREAKS – HOLDING | 7. RADIOS/ELEC – AS REQ'D |
| 4. MAGS – BOTH ON | 8. DOORS/WINDOWS – AS REQ'D |

RUNUP

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|-----------------------------|------------------------|
| 1. FUEL – AS REQ'D | 7. CARB HEAT - √ COLD |
| 2. DOORS/WNDOS - AS REQ'D | 8. IDLE RPM – 500 MIN |
| 3. ENG INST – CHECK | 9. THROTTLE – 1000 RPM |
| 4. THROTTLE – 1800/2000 RPM | 10. FLT INST – SET |
| 5. BRAKES – HOLDING | 11. RADIOS/TPX - SET |
| 6. MAG √ - 175 DROP 50 DIFF | |
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TAKEOFF/CLIMB

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|---------------------------|--------------------------|
| 1. TRIM - SET | 4. ENG INST – CHECK |
| 2. FLAPS –SET | 5. PATTERN – CLEAR |
| 3. DOORS/WNDOS – AS REQ'D | 6. RADIO CALL – ANNOUNCE |
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MIXTURE FULL RICH AT FULL POWER UNDER 5000MSL

OFF TOW/DESCENT

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|------------------------|---------------------------|
| 1. FLAPS – AS REQ'D | 4. ENG INST – CHECK |
| 2. THROTTLE – AS REQ'D | 5. FUEL SELECT – AS REQ'D |
| 3. CARB HT – AS REQ'D | |
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PRE LANDING

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|---------------------------|---------------------|
| 1. FUEL SELECT – AS REQ'D | 4. FLAPS – AS REQ'D |
| 2. MIXTURE – RICH | 5. BELTS - FASTENED |
| 3. CARB HEAT – AS REQ'D | |
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AFTER LANDING

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|--------------------|---------------------------|
| 1. FLAPS - UP | 3. RADIOS/TPX – AS REQ'D |
| 2. CARB HEAT – OFF | 4. DOORS/WNDOS – AS REQ'D |
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SHUTDOWN

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|--------------------------|--------------------------|
| 1. THROTTLE - IDLE | 5. MIXTURE – IDLE CUTOFF |
| 2. MAG GRND √ - COMPLETE | 6. THROTTLE – CLOSED |
| 3. THROTTLE – 1000 RPM | 7. MAGS – OFF |
| 4. RADIOS/ELEC – OFF | 8. MASTER – OFF |
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SECURE

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|----------------------|----------------------------|
| 1. FUEL - OFF | 3. DOORS/WNDOS – CLOSED |
| 2. CONTROLS – SECURE | 4. CHOCK/TIEDOWNS - SECURE |
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PA-18A 180HP

N6983B

ENGINE LIMITATIONS

RPM: MAX: 2700
RED ARC: 2150-2350
GREEN ARC: 500- 2150 2350-2700
STATIC LIMITS: MIN-2350 MAX-2450
MAG √ @1800/2000 RPM – 175 DROP 50 DIFF

OIL TEMP: MIN RED LINE: 40⁰ F
CAUTION RANGE (YELLOW): 40-120⁰ F
NORMAL RANGE (GREEN): 120-245⁰ F
MAX RED LINE: 245⁰ F

OIL PRESS: CAUTION RANGE (YELLOW): 25-60 psi
NORMAL RANGE (GREEN): 60-85psi
CAUTION RANGE (YELLOW): 85-100 psi

OIL QNTY: 8 QTS TOTAL /6 QTS NORMAL/2 QTS MIN

CYL HD TMP 500⁰C MAX / 300-450⁰ C NORMAL

FUEL LIMITATIONS

USABLE: LEFT (MAIN): 9 GAL
RIGHT (AUX); 18 GAL
USE MAIN FOR T/O & LDG (OR LEVEL FLIGHT)
USE AUX IN LEVEL FLIGHT ONLY

AIRSPEED LIMITATIONS

STALL: CLEAN: 47MPH
FLAPS↓: 43MPH

FLAPS EXTN 85 MPH

MANEUVER: 96MPH

MAX CRUISE 121MPH

VNE 153MPH

NORMAL: (GREEN ARC): 47-121 MPH

CAUTION: (YELLOW ARC): 121-153 MPH

TOWING

2 PLACE GLIDER: 1 NOTCH FLAPS @ 60MPH
1 PLACE GLIDER: FLAPS AS REQ'D @ 60/+ MPH

DESCENT/TEMP CONTROL

1. FLAPS –FULL
2. MP –SET TO 24inches
3. AIRSPEED –85MPH
4. MP- SLOWLY ↓ TO 20 INCHES

5. MP – MAINTAIN 20 INCHES
DURING DESCENT
UNTIL CYC HEAD TEMP
< 300⁰ C

