

BEFORE STARTING ENGINE CHECK LIST

- | | |
|---------------------------------------|-------------------------|
| 1. PREFLIGHT INSPECTION | PERFORMED |
| 2. PASSENGER BRIEFING | PERFORMED |
| 3. PEDALS | ADJUST, LOCK |
| 4. CONTROLS | FREE |
| 5. SAFETY BELTS | FASTEN |
| 6. FUEL SHUT-OFF VALVE | OPEN |
| 7. THROTTLE | IDLE |
| 8. PROPELLER SPEED CONTROL LEVER | FULL FORWARD, max. RPM |
| 9. PARKING BRAKE | SET |
| 10. CARBURETOR HEAT | OFF |
| 11. FLAPS | UP |
| 12. CIRCUIT BREAKERS | CHECK |
| 13. AVIONICS MASTER SWITCH | OFF |
| 14. MASTER SWITCH (Battery/Generator) | ON |
| 15. WARNING LIGHTS | ILLUMINATED |
| 16. NAV Lights | ON |
| 17. CANOPY | CLOSE AND SECURE |
| 18. CANOPY LOCKING WARNING LIGHT | OFF |

STARTING ENGINE PROCEDURE

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|---------------------------------|----------------------------------|
| 1. ELECTRIC FUEL PUMP | ON |
| 2. PROPELLER AREA | CLEAR |
| 3. THROTTLE - Cold Start | IDLE |
| - Warm Engine | Approximately 1 cm forward |
| 4. CHOKE - Cold Start | ON, fully pulled and hold |
| - Warm Engine | OFF |
| 5. IGNITION KEY | START |

AFTER START-UP PROCEDURE

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|-----------------------------------|---------------------------------|
| 1. OIL PRESSURE | CHECK, max of 10 seconds |
| 2. THROTTLE | max. 1200 RPM |
| 3. CHOKE | OFF |
| 4. ELECTRIC FUEL PUMP | OFF |
| 5. GENERATOR WARNING LIGHT | OFF |
| 6. AVIONICS MASTER SWITCH | ON |
| 7. GPS | ON |
| 8. RADIO | ON (max. volume) |
| 9. TRANSPONDER | SBY 7000 |

BEFORE TAXING CHECK LIST

- | | |
|-------------------------|----------------|
| 1. TRANSPONDER | GND |
| 2. WARNING LIGHTS | PUSH TO TEST |
| 3. PARKING BRAKE | RELEASE |
| 4. TAXI LIGHT | ON |

ENGINE CHECK PROCEDURE

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| 1. TOE BRAKES | HOLD |
| 2. THROTTLE | 1800 RPM |
| 3. PROPELLER SPEED CONTROL LEVER | CYCLE 3 TIMES (RPM drop: 50 - 250 RPM) |
| 4. IGNITION SWITCH | L - BOTH - R – BOTH (Max. RPM drop: 150 RPM) |
| 5. THROTTLE | 1500 RPM |
| 6. CARBURETOR HEAT | ON – CHECK – OFF (RPM drop: max. 50 RPM) |
| 7. THROTTLE | IDLE |

BEFORE TAKE-OFF

CHECK LIST

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. TRIM 2. PROPELLER SPEED CONTROL LEVER 3. WING FLAPS 4. WARNING LIGHTS | <p>NEUTRAL CHECK, max. RPM T/O EXTINGUISHED</p> |
| <ol style="list-style-type: none"> 5. TRANSPONDER 6. ELECTRIC FUEL PUMP 7. LANDING LIGHT | <p>ALT ON ON (WITH T/O CLEARANCE)</p> |

TAKE-OFF

PROCEDURE

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|---|---|
| <ol style="list-style-type: none"> 1. THROTTLE 2. CHECK RPM 3. ROTATE (VIAS) 4. CLIMB SPEED (VIAS) 5. PROPELLER SPEED CONTROL LEVER 6. BREAKES 7. FLAPS 8. TRIM | <p>FULL 2400 RPM to 2550 RPM 50 KT 65 KT TO 200 FT AGL, THEN 70KT 2400 RPM BRAKE UP AT 250FT AGL ADJUST</p> |
|---|---|

AIRBORNE

200 ft AGL

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|---|--|
| <ol style="list-style-type: none"> 1. PROPELLER SPEED CONTROL LEVER 2. FLAPS 3. ELECTRIC FUEL PUMP 4. LANDING LIGHT | <p>2400 RPM UP OFF OFF</p> |
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CRUISE

CHECK LIST

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|--|-----------------------------------|
| <ol style="list-style-type: none"> 1. THROTTLE 2. PROPELLER SPEED CONTROL LEVER | <p>25 MP 2 100 RPM</p> |
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DOWNWIND

CHECK LIST

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| <ol style="list-style-type: none"> 1. BREAKES 2. SAFETY BELTS 3. FUEL 4. AREA CHECK 5. ANNOUNCEMENT | <p>BRAKE FASTEN CHECK TRAFFIC PATTERN FREE OF TRAFFIC REPORT DOWNWIND</p> |
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BASE LEG

PROCEDURE

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| <ol style="list-style-type: none"> 1. THROTTLE 2. PROPELLER SPEED CONTROL LEVER 3. CARBURETOR HEAT 4. ELECTRIC FUEL PUMP 5. SPEED 6. FLAPS | <p>15 MP (AS REQUIRED) max. RPM ON ON 70 KT T/O</p> |
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FINAL

PROCEDURE

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|---|---|
| <ol style="list-style-type: none"> 1. SPEED 2. FLAPS 3. ANNOUNCEMENT | <p>65 KT LDG REPORT FINAL</p> |
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FINAL

CHECK LIST

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|---|--|
| <ol style="list-style-type: none"> 1. FLAPS 2. ELECTRIC FUEL PUMP 3. LANDING LIGHT | <p>LDG ON ON</p> |
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AFTER LANDING

CHECK LIST

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|-----------------------|---------|
| 1. CARBURETOR HEAT | OFF |
| 2. FLAPS | UP (0°) |
| 3. ELECTRIC FUEL PUMP | OFF |
| 4. LANDING LIGHT | OFF |
| 5. TRANSPONDER | STBY |
| 6. TRIM | NEUTRAL |

ENGINE SHUT-DOWN

CHECK LIST

- | | |
|---------------------------|-----|
| 1. RADIO | OFF |
| 2. GPS | OFF |
| 3. TRANSPONDER | OFF |
| 4. AVIONICS MASTER SWITCH | OFF |

ENGINE SHUT-DOWN

PROCEDURE

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|--------------------------------------|------|
| 1) THROTTLE | IDLE |
| 2) IGNITION SWITCH | OFF |
| 3) NAV LIGHT | OFF |
| 4) MASTER SWITCH (Battery/Generator) | OFF |

LIMITATION

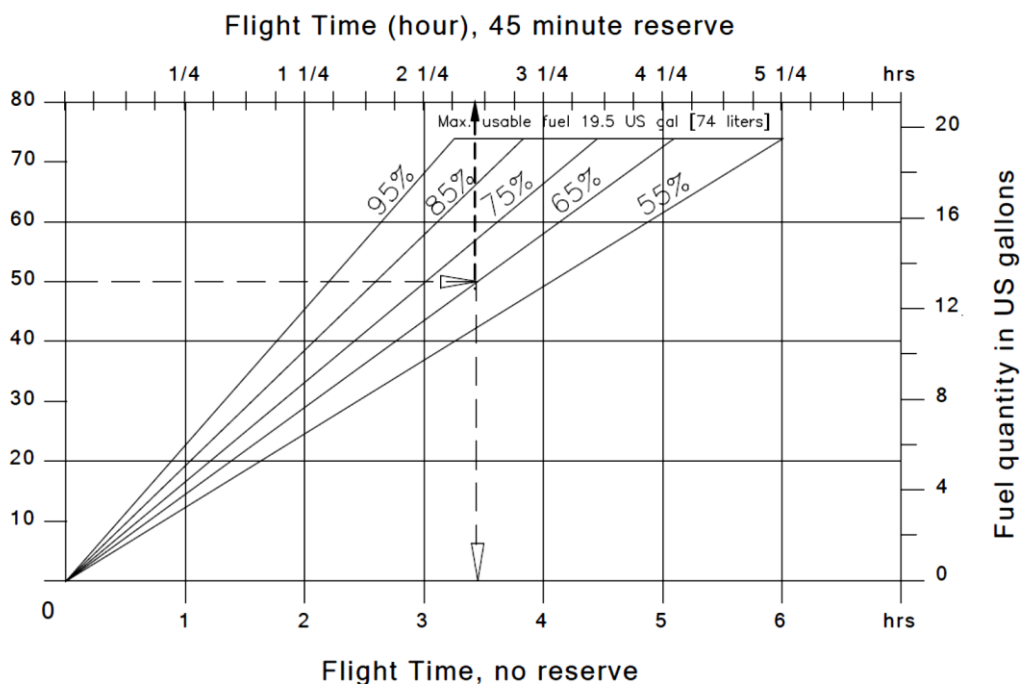
| | | |
|-----------------------------------|-------------|----------|
| NEVER EXCEED SPEED | V_{NE} | 161kt |
| MAXIMUM STRUCTURAL CRUISING SPEED | V_{NO} | 118 kt |
| MANEUVERING SPEED | V_A | 104kt |
| MAXIMUM FLAP EXTENDED SPEED | V_{FE} | 81kt |
| NORMAL OPERATING SPEED | V_C | 90kt |
| MIN. SAFE SPEED | | 60kt |
| | (FLAPS UP) | 60kt |
| | (FLAPS T/O) | 55kt |
| | (FLAPS LDG) | 50kt |
| STALL SPEEDS | V_{s1} | 41kt |
| | (FLAPS UP) | V_{s1} |
| | (FLAPS T/O) | 39kt |
| | (FLAPS LDG) | V_{s0} |
| | | 37kt |
| MAX. CROSSWIND COMPONENT | | 15kt |
| MAXIMUM TAKE-OFF WEIGHT | | 730 kg |

POWER SETTING

| Režim letu | RPM | MP |
|------------------------|-------|-----|
| MAX. TAKE-OFF POWER | 2 550 | Max |
| MAX. CONTINUOUS POWER | 2 420 | Max |
| CRUISE POWER MAXIMÁLNY | 2 420 | Max |
| CRUISE POWER ECONOMY | 1 900 | 24 |

| Pressure Altitude | | Standard Temp. | Engine power as % of max. continuous power. | | | | | |
|-------------------------|------|----------------|---|------|-------------------------------|------|-------------------------------|------|
| [ft] | [m] | | 55 % | | 65 % | | 75 % | |
| | | [°F]([°C]) | RPM | MP | RPM | MP | RPM | MP |
| 0 | 0 | 59 (15) | 19 | 24.7 | 21 | 25.3 | 22 | 26.3 |
| 2000 | 600 | 52 (11) | 19 | 24.0 | 21 | 24.7 | 22 | 25.7 |
| 4000 | 1200 | 45 (7) | 19 | 23.3 | 21 | 24.0 | 22 | 25.0 |
| 6000 | 1800 | 37 (3) | 19 | 23.0 | 21 | 23.7 | 23 | 23.7 |
| 8000 | 2400 | 30 (-1) | 20 | 21.3 | 23 | 21.7 | 24 | 22.0 |
| 10000 | 3000 | 23 (-5) | 21 | 20.0 | 24 | 20.3 | --- | --- |
| 12000 | 3600 | 16 (-9) | 22 | 18.7 | --- | --- | --- | --- |
| 13000 | 4000 | 12(-11) | 23 | 17.3 | --- | --- | --- | --- |
| Consumption (per hour): | | | 3.25 US gal. (12.3 liters) | | 3.83 US gal. (14.5 liters) | | 4.39 US gal. (16.6 liters) | |

| Pressure Altitude | | Standard Temp. | Engine power as % of max. continuous power. | | | | | |
|-------------------------|------|----------------|---|------|-------------------------------|------|-------------------------------|------|
| [ft] | [m] | | 85 % | | 95 % | | 104 % | |
| | | (°F)[C] | RPM | MP | RPM | MP | RPM | MP |
| 0 | 0 | 59 (15) | 23 | 27.7 | 24 | 28.0 | 25.5 | 29.7 |
| 2000 | 600 | 52 (11) | 23 | 27.0 | 24 | 27.7 | --- | --- |
| 4000 | 1200 | 45 (7) | 24 | 25.3 | --- | --- | --- | --- |
| Consumption (per hour): | | | 5.10 US gal. (19.3 liters) | | 6.00 US gal. (22.7 liters) | | 6.52 US gal. (24.7 liters) | |



DA-20 KATANA OM-LOV EMERGENCY



ENGINE FAILURE

PROCEDURE

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|------------------------------|--------------------------------------|
| 1. SPEED | 70 KT |
| 2. FIELD | SELECTION, PERFORM EMERGENCY LANDING |
| <hr/> | |
| 1. ELECTRIC FUEL PUMP | ON |
| 2. CARBURETOR HEAT | ON |
| 3. SAFETY BELTS | FASEN |
| 4. FLAPS | AS REQUIRED |

ENGINE FIRE

PROCEDURE

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|-------------------------------|--------------------------------------|
| 1. FUEL SHUT-OFF VALVE | CLOSE |
| 2. THROTTLE | FULL |
| 3. ELECTRIC FUEL PUMP | OFF |
| 4. CABIN HEAT | CLOSED |
| 5. SPEED | 70 KT |
| 6. FIELD | SELECTION, PERFORM EMERGENCY LANDING |
| 7. SAFETY BELTS | FASEN |
| 8. FLAPS | AS REQUIRED |