

4A.3 CHECKLISTS FOR NORMAL OPERATING PROCEDURES

4A.3.1 PRE-FLIGHT INSPECTION

I. Cabin Check

- a) MET, NAV, mass & CG flight planning completed
- b) Airplane documents complete and up-to-date
- c) Ignition key pulled out
- d) Front canopy and rear door clean, undamaged, check
locking mechanism function

- e) All electrical equipment OFF
- f) Circuit breakers set in (if one has been
pulled, check reason)

- g) Engine control levers check condition, freedom of
movement and full travel of
throttle, RPM and mixture
levers

- h) Throttle IDLE
- i) Mixture control lever LEAN
- j) RPM lever HIGH RPM
- k) Master switch (BAT) ON
- l) Annunciator panel check function (see 7.11)
- m) Fuel quantity check

CONTINUED

NOTE

Standard Tank:

Depending on the type of fuel probes installed, the indicator can read a maximum of 15 US gal or 17 US gal (refer to Section 7.10 for details). When the fuel quantity indicator reads the maximum amount of fuel detectable, the correct fuel quantity must be determined with the fuel quantity measuring device. If this measurement is not carried out, the fuel quantity available for flight planning is the indicated amount.

Long Range Tank:

At an indication of 16 US gal the quantity of auxiliary fuel can be determined by switching the AUX FUEL QTY switch to the respective position (LH or RH). The auxiliary fuel quantity is added to the 16 US gal.

An auxiliary fuel quantity of less than 3 US gal cannot be indicated by the system. In this case the quantity must be determined by means of the fuel quantity measuring device (see Section 7.10 - FUEL SYSTEM).

CAUTION

Long Range Tank:

The correct indication of the fuel quantity takes 2 minutes after actuation of the switch.

CONTINUED

Page 4A - 4	Rev. 8	01-Dec-2010	Doc. # 6.01.01-E
-------------	--------	-------------	------------------

- n) Position lights, strobe lights (ACLs) check
- o) Master switch (BAT) OFF
- p) Check for loose items complete
- q) Flight controls and trim free to move and correct
- r) Baggage stowed and secure
- s) Emergency axe (if OÄM 40-326 installed) . . . stowed and secure

END OF CHECKLIST
II. Walk-around check, visual inspection
CAUTION

A visual inspection means: examination for damage, cracks, delamination, excessive play, load transmission, correct attachment and general condition. In addition control surfaces should be checked for freedom of movement.

CAUTION

In low ambient temperatures the airplane must be completely cleared of ice, snow and similar accumulations. For approved de-icing fluids refer to Section 8.6 - DE-ICING ON THE GROUND.

CAUTION

Prior to flight, remove such items as control surfaces gust lock, Pitot cover, tow bar, etc.

CONTINUED

Doc. # 6.01.01-E	Rev. 8	01-Dec-2010	Page 4A - 5
------------------	--------	-------------	-------------

1. Left Main Landing Gear:

- a) Landing gear strut visual inspection
- b) Strut fairing (if installed) visual inspection
- c) Wheel fairing visual inspection
- d) Tire inflation pressure (2.5 bar/36 PSI) check
- e) Wear, tread depth of tire check
- f) Tire, wheel, brake visual inspection
- g) Brake line connection check for leaks
- h) Slip marks visual inspection
- i) Chocks remove

2. Left Wing:

- a) Entire wing surface visual inspection
- b) Step visual inspection
- c) Air intake on lower surface visual inspection
- d) Openings on lower surface check for traces of fuel (if tank is full, fuel may spill over through the tank vent)

- e) Tank drain drain off a small quantity, check for water and sediment

- f) Stall warning check (suck on opening)
- g) Tank filler visual inspection, fuel quantity must agree with indicator

- h) Tank air outlet in lower surface visual inspection

CONTINUED

- i) 2 stall strips on wing visual inspection
- j) Pitot probe clean, orifices open
- k) Landing/taxi light visual inspection
- l) Wing tip visual inspection
- m) Position light, strobe light (ACL) visual inspection
- n) Mooring check, clear
- o) Aileron and linkage visual inspection
- p) Aileron hinges and safety pin visual inspection
- q) Foreign objects in aileron paddle visual inspection
- r) Flap and linkage visual inspection
- s) Flap hinges and safety pin visual inspection

3. Fuselage, Left Side:

- a) Canopy, left side visual inspection
- b) Rear cabin door & window visual inspection
- c) Fuselage skin visual inspection
- d) Antennas visual inspection
- e) Autopilot static source (if OÄM 40-267
installed) check for blockage

4. Empennage:

- a) Stabilizers and control surfaces visual inspection
- b) Hinges visual inspection
- c) Elevator trim tab visual inspection, check
locking wire
- d) Rudder trim tab visual inspection
- e) Mooring on fin check, clear
- f) Tail skid and lower fin visual inspection
- g) Towing assembly, if fitted visual inspection

CONTINUED

Doc. # 6.01.01-E	Rev. 8	01-Dec-2010	Page 4A - 7
------------------	--------	-------------	-------------

5. *Fuselage, Right Side:*

- a) Fuselage skin visual inspection
- b) Window visual inspection
- c) Canopy, right side visual inspection
- d) Autopilot static source (if OÄM 40-267
installed) check for blockage

6. *Right Wing:*

- a) Flap and linkage visual inspection
- b) Flap hinges and safety pin visual inspection
- c) Aileron and linkage visual inspection
- d) Aileron hinges and safety pin visual inspection
- e) Foreign objects in aileron paddle visual inspection
- f) Wing tip visual inspection
- g) Position light, strobe light (ACL) visual inspection
- h) Mooring check, clear
- i) Entire wing surface visual inspection
- j) 2 stall strips on wing visual inspection
- k) Tank air outlet in lower surface visual inspection
- l) Tank filler visual check, fuel quantity
must agree with indicator
- m) Openings on lower surface check for traces of fuel (if
tank is full, fuel may spill
over through the tank vent)
- n) Tank drain drain off a small quantity,
check for water and
sediment
- o) Step visual inspection

CONTINUED

Page 4A - 8	Rev. 8	01-Dec-2010	Doc. # 6.01.01-E
-------------	--------	-------------	------------------

7. Right Main Landing Gear:

- a) Landing gear strut visual inspection
- b) Strut fairing (if installed) visual inspection
- c) Wheel fairing visual inspection
- d) Tire inflation pressure (2.5 bar/36 PSI) check
- e) Wear, tread depth of tires check
- f) Tire, wheel, brake visual inspection
- g) Brake line connection check for leaks
- h) Slip marks visual inspection
- i) Chocks remove

8. Front Fuselage:

- a) Oil level check dipstick,
min. 4 qts for VFR operation
min. 6 qts for IFR operation
- b) Cowling visual inspection
- c) 3 air intakes clear
- d) Propeller visual inspection; blade
shake: max. 3 mm (1/8 in);
angular play of blade:
max. 2°

WARNING

Never move the propeller by hand while the ignition is switched on, as it may result in serious personal injury.

- e) Spinner including attachment screws visual inspection

CONTINUED

Doc. # 6.01.01-E	Rev. 8	01-Dec-2010	Page 4A - 9
------------------	--------	-------------	-------------

- f) Nose landing gear visual inspection
- g) Tire and wheel visual inspection
- h) Slip marks visual inspection
- i) Nose landing gear strut fairing (if installed) .. visual inspection
- j) Nose landing gear tie-down (if installed) check, clear
- k) Wear, tread depth of tire check
- l) Wheel fairing visual inspection
- m) Tow bar removed
- n) Tire inflation pressure (2.0 bar/29 PSI) check
- o) Chocks remove
- p) Exhaust visual inspection
- q) Forward cabin air inlets (if installed) clear
- r) Winter baffle for fresh air inlet (if installed) .. visual inspection

WARNING

The exhaust can cause burns when it is hot.

Underside:

- s) Antennas (if fitted) visual inspection
- t) Gascolator drain off a small quantity of
fuel, check for water and
sediment
- u) Venting pipes check for blockage
- v) Fuselage underside check for excessive
contamination particularly by
oil, fuel, and other fluids

END OF CHECKLIST

Page 4A - 10	Rev. 8	01-Dec-2010	Doc. # 6.01.01-E
--------------	--------	-------------	------------------

4A.3.2 BEFORE STARTING ENGINE
CAUTION

For take-off the adjustable backrests (if installed) must be fixed in the upright position.

NOTE

The pilot must ensure that a passenger sitting on a front seat is instructed in the operation of the adjustable backrest (if installed).

1. Pre-flight inspection complete
2. Rudder pedals adjusted
3. Passengers instructed
4. Adjustable backrests (if installed) adjust to the upright position described by a placard on the roll-over bar and verify proper fixation.
5. Safety harnesses all on and fastened
6. Baggage check, secured
7. Rear door closed and locked
8. Door lock (if installed) unblocked, key removed

CAUTION

When operating the canopy, ensure that there are no obstructions between the canopy and the mating frame, for example seat belts, clothing, etc. When operating the locking handle do NOT apply undue force.

A slight downward pressure on the canopy may be required to ease handle operation.

CONTINUED

- | 9. Front canopy Position 1 or 2 ("Cooling Gap")
- | 10. Canopy lock (if installed) unblocked, key removed
- | 11. Parking brake set
- | 12. Flight controls free movement
- | 13. Trim wheel T/O
- | 14. Throttle IDLE
- | 15. RPM lever HIGH RPM
- | 16. Mixture control lever LEAN
- | 17. Friction device, throttle quadrant adjusted
- | 18. Alternate air CLOSED
- | 19. Alternate static valve CLOSED, if installed
- | 20. Avionics Master switch OFF
- | 21. Essential Bus switch OFF, if installed

CAUTION

When the essential bus is switched ON, the battery will not be charged unless the essential tie relay bypass (OÄM 40-126) is installed.

- | 22. Master switch (BAT) ON
- | 23. Annunciator panel test (see Section 7.11)
- | 24. Fuel tank selector on full tank

WARNING

Never move the propeller by hand while the ignition is switched on, as it may result in serious personal injury.

Never try to start the engine by hand.

END OF CHECKLIST

Page 4A - 12	Rev. 9	31-Jan-2014	Doc. # 6.01.01-E
--------------	--------	-------------	------------------

4A.3.3 STARTING ENGINE

(a) Cold Engine

1. Strobe light (ACL) ON
2. Electrical fuel pump ON, note pump noise
(= functional check of pump)
3. Throttle 3 cm (1.2 in) forward from
IDLE (measured from rear of
slot)
4. Mixture control lever RICH for 3 - 5 sec, then
LEAN
5. Throttle 1 cm (0.4 in) forward from
IDLE (measured from rear of
slot)

WARNING

Before starting the engine the pilot must ensure that the propeller area is free, and no persons can be endangered.

CAUTION

Do not overheat the starter motor. Do not operate the starter motor for more than 10 seconds. After operating the starter motor, let it cool off for 20 seconds. After 6 attempts to start the engine, let the starter cool off for half an hour.

CONTINUED

Doc. # 6.01.01-E	Rev. 8	01-Dec-2010	Page 4A - 13
------------------	--------	-------------	--------------

CAUTION

The use of an external pre-heater and external power source is recommended whenever possible, in particular at ambient temperatures below 0 °C (32 °F), to reduce wear and abuse to the engine and electrical system. Refer to Section 4B.8 - STARTING THE ENGINE WITH EXTERNAL POWER. Pre-heat will thaw the oil trapped in the oil cooler, which can be congealed in extremely cold temperatures. After a warm-up period of approximately 2 to 5 minutes (depending on the ambient temperature) at 1500 RPM, the engine is ready for take-off if it accelerates smoothly and the oil pressure is normal and steady.

6. Ignition switch START

When Engine Fires:

7. Mixture control lever rapidly move to RICH
8. Oil pressure green sector within 15 sec
9. Electrical fuel pump OFF

WARNING

If the oil pressure has not moved into the green sector within 15 seconds after starting, SWITCH OFF ENGINE and investigate problem.

10. Master switch (ALT) ON
11. Ammeter check
12. Fuel pressure check (14 PSI to 35 PSI)
13. Annunciator panel check

END OF CHECKLIST

Page 4A - 14	Rev. 8	01-Dec-2010	Doc. # 6.01.01-E
--------------	--------	-------------	------------------

(b) Warm Engine

1. Strobe light (ACL) ON
2. Electrical fuel pump ON, note pump noise and fuel pressure increase
3. Throttle 3 cm (1.2 in) forward from IDLE (measured from rear of slot)
4. Mixture control lever RICH for 1 - 3 sec, then LEAN

WARNING

Before starting the engine the pilot must ensure that the propeller area is free and no persons can be endangered.

CAUTION

Do not overheat the starter motor. Do not operate the starter motor for more than 10 seconds. After operating the starter motor, let it cool off for 20 seconds. After 6 attempts to start the engine, let the starter cool off for half an hour.

5. Ignition switch START

CONTINUED

Doc. # 6.01.01-E	Rev. 8	01-Dec-2010	Page 4A - 15
------------------	--------	-------------	--------------

When Engine Fires:

6. Mixture control lever rapidly move to RICH
7. Oil pressure green sector within 15 sec

WARNING

If the oil pressure has not moved into the green sector within 15 seconds after starting, SWITCH OFF ENGINE and investigate problem.

8. Electrical fuel pump OFF
9. Master switch (ALT) ON
10. Ammeter check
11. Fuel pressure check (14 PSI to 35 PSI)
12. Annunciator panel check

END OF CHECKLIST

(c) Engine Will Not Start After Injection ("Flooded Engine")

1. Strobe light (ACL) ON
2. Electrical fuel pump OFF
3. Mixture control lever LEAN, fully aft
4. Throttle at mid position

WARNING

Before starting the engine the pilot must ensure that the propeller area is free and no persons can be endangered.

CAUTION

Do not overheat the starter motor. Do not operate the starter motor for more than 10 seconds. After operating the starter motor, let it cool off for 20 seconds. After 6 attempts to start the engine, let the starter cool off for half an hour.

5. Ignition switch START
6. Throttle pull back towards IDLE
when engine fires

CONTINUED

Doc. # 6.01.01-E	Rev. 8	01-Dec-2010	Page 4A - 17
------------------	--------	-------------	--------------

When Engine Fires:

7. Mixture control lever rapidly move to RICH
8. Oil pressure green sector within 15 sec

WARNING

If the oil pressure has not moved into the green sector within 15 seconds after starting, SWITCH OFF ENGINE and investigate problem.

9. Master switch (ALT) ON
10. Ammeter check
11. Fuel pressure check (14 PSI to 35 PSI)
12. Annunciator panel check

END OF CHECKLIST

4A.3.4 BEFORE TAXIING

1. Avionics Master switch ON
2. Electrical equipment ON as required
3. Flaps UP - T/O - LDG - T/O
(indicator and visual check)
4. Flight instruments and avionics set, test function, as
required
5. Flood light ON, test function, as
required
6. Ammeter check, if required increase
RPM
7. Fuel tank selector change tanks, confirm that
engine also runs on other
tank (at least 1 minute at
1500 RPM)
8. Pitot heating ON, test function;
ammeter must show rise
9. Pitot heating OFF
10. Strobe lights (ACLs) check ON, as required
11. Position lights, landing and taxi lights ON, as required

CAUTION

When taxiing at close range to other aircraft, or during night flight in clouds, fog or haze, the strobe lights should be switched OFF. The position lights must always be switched ON during night flight.

12. Idle RPM check, 600 to 800 RPM

END OF CHECKLIST

Doc. # 6.01.01-E	Rev. 8	01-Dec-2010	Page 4A - 19
------------------	--------	-------------	--------------

4A.3.5 TAXIING

1. Parking brake release
2. Brakes test on moving off
3. Flight instrumentation and avionics
(particularly directional gyro and
turn and bank indicator) check for correct indications

CAUTION

When taxiing on a poor surface select the lowest possible RPM to avoid damage to the propeller from stones or similar items.

CAUTION

Following extended operation on the ground, or at high ambient temperatures, the following indications of fuel vapor lock may appear:

- Arbitrary changes in idle RPM and fuel flow.
- Slow reaction of the engine to operation of throttle.
- Engine will not run with throttle in IDLE position.

CONTINUED

Page 4A - 20	Rev. 8	01-Dec-2010	Doc. # 6.01.01-E
--------------	--------	-------------	------------------

Remedy:

1. For about 1 to 2 minutes, or until the engine settles, run at a speed of 1800 to 2000 RPM. Oil and cylinder head temperatures must stay within limits.
2. Pull throttle back to IDLE to confirm smooth running.
3. Set throttle to 1200 RPM and mixture for taxiing, i.e., use mixture control lever to set the maximum RPM attainable.
4. Immediately before the take-off run set the mixture for take-off, apply full throttle and hold this position for 10 seconds.

NOTE

Vapor lock can be avoided if the engine is run at speeds of 1800 RPM or more. This results in lower fuel temperatures.

END OF CHECKLIST

4A.3.6 BEFORE TAKE-OFF

CAUTION

Before take-off, the engine must run on each tank for at least 1 minute at 1500 RPM.

CAUTION

For take-off the adjustable backrests (if installed) must be fixed in the upright position.

1. Position airplane into wind if possible
2. Parking brake set
3. Adjustable backrests (if installed) verify upright position
And proper fixation
4. Safety harnesses on and fastened
5. Rear door check closed and locked
6. Front canopy closed and locked

CAUTION

When operating the canopy, ensure that there are no obstructions in between the canopy and the mating frame, for example seat belts, clothing, etc. When operating the locking handle do NOT apply undue force.

A slight downward pressure on the canopy may be required to ease handle operation.

7. Door warning light (DOOR or DOORS) check OFF
8. Fuel tank selector fullest tank

CONTINUED

Page 4A - 22	Rev. 9	31-Jan-2014	Doc. # 6.01.01-E
--------------	--------	-------------	------------------

- 9. Engine instruments in green sector
- 10. Circuit breakers pressed in
- 11. Fuel pressure indicator check (approx. 14 - 35 PSI)
- 12. Electrical fuel pump ON
- 13. Mixture control lever RICH (below 5000 ft)

NOTE

At a density altitude of 5000 ft or above or at high ambient temperatures a fully rich mixture can cause rough running of the engine or a loss of performance. The mixture should be set for smooth running of the engine.

- 14. Flaps check T/O
- 15. Trim check T/O
- 16. Flight controls free movement, correct sense
- 17. Throttle 2000 RPM
- 18. RPM lever pull back until a drop of 250 to 500 RPM is reached - HIGH RPM; cycle 3 times
- 19. Magneto check L - BOTH - R - BOTH
 Max. RPM drop . . . 175 RPM
 Max. difference . . . 50 RPM
 If the electronic ignition control unit is installed, the ignition status light must illuminate and extinguish after approximately 20 to 30 sec

CONTINUED

CAUTION

The lack of an RPM drop suggests a faulty grounding or incorrect ignition timing. In case of doubt the magneto check can be repeated with a leaner mixture, in order to confirm a problem. Even when running on only one magneto the engine should not run unduly roughly.

- | 20. Circuit breaker check in
- | 21. Voltmeter check in green range
- | 22. Throttle IDLE
- | 23. Parking brake release
- | 24. Alternate air check CLOSED
- | 25. Landing light ON as required
- | 26. Pitot heating ON as required

END OF CHECKLIST

4A.3.7 TAKE-OFF

Normal Take-Off Procedure

1. Transponder ON/ALT
2. RPM lever check HIGH RPM
3. Throttle MAX PWR (not abruptly)

WARNING

The proper performance of the engine at full throttle should be checked early in the take-off procedure, so that the take-off can be aborted if necessary.

A rough engine, sluggish RPM increase, or failure to reach take-off RPM (2680 ± 20 RPM) are reasons for aborting the take-off. If the engine oil is cold, an oil pressure in the yellow sector is permissible.

4. Elevator neutral
5. Rudder maintain direction

NOTE

In strong crosswinds steering can be augmented by use of the toe brakes. It should be noted, however, that this method increases the take-off roll, and should not generally be used.

6. Nose wheel lift-off at $v_R = 59$ KIAS

CONTINUED

Doc. # 6.01.01-E	Rev. 8	01-Dec-2010	Page 4A - 25
------------------	--------	-------------	--------------

- 7. Airspeed 67 KIAS (1200 kg, 2646 lb)
66 KIAS (1150 kg, 2535 lb)
60 KIAS (below 1000 kg,
2205 lb)

Above a Safe Height:

- 8. RPM lever 2400 RPM
- 9. Electrical fuel pump OFF
- 10. Landing light OFF

END OF CHECKLIST

4A.3.8 CLIMBProcedure for Best Rate of Climb

- | | |
|--------------------------------|--|
| 1. Flaps | T/O |
| 2. Airspeed | 67 KIAS (1200 kg, 2646 lb) |
| | 66 KIAS (1150 kg, 2535 lb) |
| | 60 KIAS (1000 kg, 2205 lb) |
| | 54 KIAS (850 kg, 1874 lb) |
| 3. RPM lever | 2400 RPM |
| 4. Throttle | MAX PWR |
| 5. Mixture control lever | RICH, above 5000 ft hold
EGT constant |
| 6. Engine instruments | in green sector |
| 7. Trim | as required |
| 8. Electrical fuel pump | ON at high altitudes |

CAUTION

Operation at high altitudes with the electrical fuel pump OFF may cause vapor bubbles, resulting in intermittent low fuel pressure indications, sometimes followed by high fuel flow indications.

END OF CHECKLIST

Cruise Climb

1. Flaps UP
2. Airspeed 76 KIAS (1200 kg, 2646 lb)
73 KIAS (1150 kg, 2535 lb)
68 KIAS (1000 kg, 2205 lb)
60 KIAS (850 kg, 1874 lb)
3. RPM lever 2400 RPM
4. Throttle MAX PWR
5. Mixture control lever RICH, above 5000 ft hold
EGT constant
6. Engine instruments in green sector
7. Trim as required
8. Electrical fuel pump ON at high altitudes

CAUTION

Operation at high altitudes with the electrical fuel pump OFF may cause vapor bubbles, resulting in intermittent low fuel pressure indications, sometimes followed by high fuel flow indications.

END OF CHECKLIST

4A.3.9 CRUISE

1. Flaps UP
2. Throttle set performance according
to table
3. RPM lever 1800 - 2400 RPM

NOTE

Favorable combinations of manifold pressure and RPM are given in Chapter 5.

NOTE

To optimize engine life the cylinder head temperature (CHT) should lie between 150 °F (66 °C) and 400 °F (204 °C) in continuous operation, and not rise above 435 °F (224 °C) in fast cruise.

NOTE

The oil temperature in continuous operation should lie between 165 °F (74 °C) and 220 °F (104 °C). If possible, the oil temperature should not remain under 180 °F (82 °C) for long periods, so as to avoid accumulation of condensation water.

4. Mixture set in accordance with
4A.3.10 - MIXTURE
ADJUSTMENT

CONTINUED

Doc. # 6.01.01-E	Rev. 8	01-Dec-2010	Page 4A - 29
------------------	--------	-------------	--------------

5. Trim as required
6. Fuel tank selector as required
(max. difference 10 US gal
with Standard Tank,
8 US gal with Long Range
Tank)
7. Electrical fuel pump ON at high altitudes

CAUTION

Operation at high altitudes with the electrical fuel pump OFF may cause vapor bubbles, resulting in intermittent low fuel pressure indications, sometimes followed by high fuel flow indications.

NOTE

While switching from one tank to the other, the electrical fuel pump should be switched ON.

END OF CHECKLIST

4A.3.10 MIXTURE ADJUSTMENT**CAUTION**

1. The maximum permissible cylinder head temperature (500 °F (260 °C)) must never be exceeded.
2. The mixture control lever should always be moved slowly.
3. Before selecting a higher power setting the mixture control lever should, on each occasion, be moved slowly to fully RICH.
4. Care should always be taken that the cylinders do not cool down too quickly. The cooling rate should not exceed 50 °F (22.8 °C) per minute.

Best Economy Mixture

The best economy mixture setting may only be used up to a power setting of 75 %. In order to obtain the lowest specific fuel consumption at a particular power setting proceed as follows: Slowly pull the mixture control lever back towards LEAN until the engine starts to run roughly. Then push the mixture control lever forward just far enough to restore smooth running. At the same time the exhaust gas temperature (EGT) should reach a maximum.

The exact value of EGT can be obtained by pressing the far left button on the engine instrument unit VM 1000. In the Lean mode one bar represents 10 °F (4.6 °C).

CONTINUED

Doc. # 6.01.01-E	Rev. 8	01-Dec-2010	Page 4A - 31
------------------	--------	-------------	--------------

Best Power Mixture

The mixture can be set for maximum performance at all power settings. The mixture should first be set as for 'best economy'. The mixture should then be enriched until the exhaust gas temperature is approximately 100 °F (55 °C) lower.

This mixture setting produces the maximum performance for a given manifold pressure and is mainly used for high power settings (approximately 75 %).

END OF CHECKLIST

4A.3.11 DESCENT

1. Mixture control lever adjust as required for the altitude, operate slowly
2. RPM lever 1800 - 2400 RPM
3. Throttle as required
4. Electrical fuel pump ON at high altitudes

CAUTION

When reducing power, the change in cylinder head temperature should not exceed 50 °F (22.8 °C) per minute. This is normally guaranteed by the 'self adapting inlet'. An excessive cooling rate may occur however, when the engine is very hot and the throttle is reduced abruptly in a fast descent. This will be indicated by a flashing cylinder head temperature indication.

CAUTION

Operation at high altitudes with the electrical fuel pump OFF may cause vapor bubbles, resulting in intermittent low fuel pressure indications, sometimes followed by high fuel flow indications.

END OF CHECKLIST

4A.3.12 LANDING APPROACH

CAUTION

For landing the adjustable backrests (if installed) must be fixed in the upright position.

1. Adjustable backrests (if installed) adjust to the upright position described by a placard on the roll-over bar and verify proper fixation.
2. Fuel selector fullest tank
3. Electrical fuel pump ON
4. Safety harnesses fastened
5. Airspeed reduce to operate flaps (108 KIAS)
6. Flaps T/O
7. Trim as required
8. Landing light as required

Before Landing:

9. Mixture control lever RICH
10. RPM lever HIGH RPM
11. Throttle as required
12. Airspeed reduce to operate flaps (91 KIAS)
13. Flaps LDG

CONTINUED

14. Approach speed 73 KIAS (1200 kg, 2646 lb)
71 KIAS (1150 kg, 2535 lb)
67 KIAS (1092 kg, 2407 lb)
63 KIAS (1000 kg, 2205 lb)
58 KIAS (850 kg, 1874 lb)

CAUTION

In conditions such as (e.g.) strong wind, danger of wind shear or turbulence a higher approach speed should be selected.

NOTE

In case of airplanes with a maximum landing mass less than the maximum permitted flight mass, a landing with a higher mass constitutes an abnormal operating procedure. Refer to Sections 2.7 - MASS (WEIGHT) and 4B.7 - LANDING WITH HIGH LANDING MASS.

END OF CHECKLIST

4A.3.13 GO-AROUND

1. Throttle MAX PWR
2. Airspeed 67 KIAS (1200 kg, 2646 lb)
66 KIAS (1150 kg, 2535 lb)
60 KIAS (1000 kg, 2205 lb)
54 KIAS (850 kg, 1874 lb)
3. Flaps T/O

Above a Safe Height:

4. RPM lever 2400 RPM
5. Airspeed 76 KIAS (1200 kg, 2646 lb)
73 KIAS (1150 kg, 2535 lb)
68 KIAS (1000 kg, 2205 lb)
60 KIAS (850 kg, 1874 lb)
6. Flaps UP
7. Electrical fuel pump OFF

END OF CHECKLIST

4A.3.14 AFTER LANDING

1. Throttle IDLE
2. Brakes as required
3. Electrical fuel pump OFF
4. Transponder OFF / STBY
5. Pitot heating OFF
6. Avionics as required
7. Lights as required
8. Flaps UP

END OF CHECKLIST

4A.3.15 ENGINE SHUT-DOWN

1. Parking brake set
2. Engine instruments check
3. Avionics Master switch OFF
4. All electrical equipment OFF
5. Throttle 1000 RPM
6. Ignition check OFF until RPM drops
noticeably, then immediately
BOTH again

7. Mixture control lever LEAN - shut engine off
8. Ignition switch OFF
9. Master switch (ALT/BAT) OFF

END OF CHECKLIST

4A.3.16 POST-FLIGHT INSPECTION

- | | | |
|---|---------------------------------|--|
| | 1. Ignition switch | OFF, remove key |
| I | 2. Master switch (BAT) | ON |
| | 3. Avionics Master switch | ON |
| | 4. ELT | check activated:
listen on 121.5 MHz |
| | 5. Avionics Master switch | OFF |
| I | 6. Master switch (BAT) | OFF |
| | 7. Parking brake | release, use chocks |
| | 8. Airplane | moor, if unsupervised for
extended period |

NOTE

If the airplane is not operated for more than 5 days, the long-term parking procedure should be applied. If the airplane is not operated for more than 30 days, the storage procedure should be applied. Both procedures are described in the Airplane Maintenance Manual (Doc. No. 6.02.01) in Chapter 10.

END OF CHECKLIST