DR40-140B DAUPHIN CHECKLIST HB-KEB / KEX / KFQ



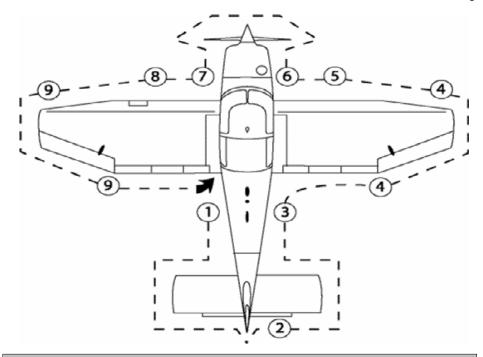
CHECKLIST DR40 / 140 B

ENGLISH

SPEED			
Vr	54 kt	Vso	47 kt
Vx	70 kt	Va	116 kt
Vy	81 kt	Vref	65 kt + WIND
Vbest glide	78 kt	Cruise	120 kt

FUEL	
TOTAL	160 L
USABLE	159 L
CONSUMPTION	~ 35L/H
ENDURANCE	~4H30

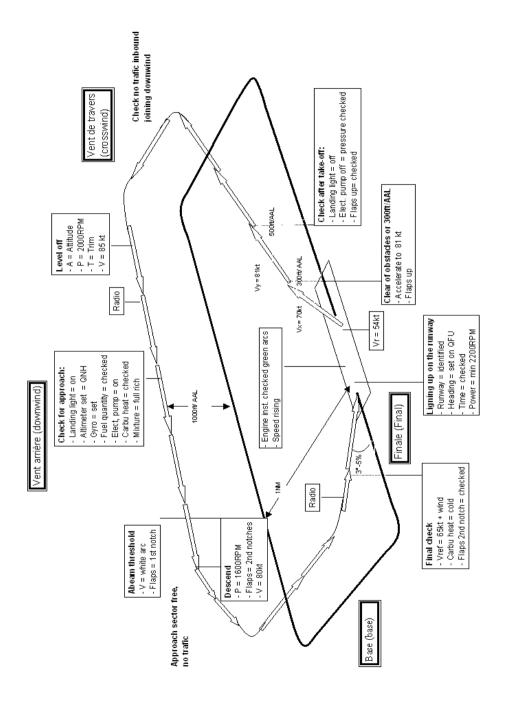
	OTHER
DEMONSTRATED CROSSWIND	22 kt
MTOM	1000 kg



COCKPIT		
1. MAGNETO SWITCH	OFF	
2. CONTROLS	FREE	
3. FLAPS	CHECK OPERATION	
4. BATTERY SWITCH	ON	
5. FUEL QUANTITY	CHECK	
6. BATTERY SWITCH	OFF	
7. AIRCRAFT DOCUMENTS	CHECK AVAIBILITY ON BOARD	
8. BAGGAGE	CHECK STOWING	

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PREFLIGHT INSPECTION	
4.00.1575	DETWEEN A AND A US AND TO
1. OIL LEVEL	
2. AIRCRAFT DOCUMENTS, AIRCRAFT LOGBOOK, C	
3. EMERGENCY EQUIPMENTS	
	FIRE EXTINGUISHER, EMERGENCY CHECKLIST
WINTER - START UP PROCEDU	RE:TEMPERATURE<5°C
4 INVESTIGNA	0.40 711150
1. INJECTION	
2. THROTTLE	
3. MAGNETOS	
4. STARTER	
AS SOON AS THE ENG	
5. MAGNETOS	вотн
IF THE ENGINE DOESN'T START, DO AC	SAIN THE PROCEDURE AT POINT 1
BEWARE OF NOT INJECT FUEL IN THE SAME TIM	
KEEP YOUR HAND ON THE MAGNETOS	E OF STANTING THE ENGINE
KEEL TOOK HAND ON THE MIAGNETOO	
SUMMER - START UP PROCEDU	JRE : TEMPERATURE >5°C
1. INJECTION	3 TIMES
2. THROTTLE	1 CM
3. MAGNETOS	LEFT, KEEP HAND ON THE KEYS
4. STARTER	ENGAGE
AS SOON AS THE ENGIN	
5. MAGNETOS	ВОТН
OUMMED WINTED HOT ENOU	IF OTART UR PROCEDURE
SUMMER- WINTER - HOT ENGIN	NE START UP PROCEDURE
1. INJECTION	1 TIME
2. THROTTLE	1 CM
3. MAGNETOS	LEFT, KEEP HAND ON THE KEYS
4. STARTER	ENGAGE
AS SOON AS THE ENGIN	IE BEGIN TO START
5. MAGNETOS	ВОТН
FLOODED ENGINE	PROCEDURE
1. ELECTRIC PUMP	OFF
2. MIXTURE	LEAN
3. THROTTLE	FULL POWER
4. STARTER	ENGAGE
AS SOON AS THE ENGINE BEGIN TO START, ADVANCE THE MIXTURE TO FULL RICH	
AND CONTINUE THE NORMAL PROCEDURE	

DR40-140B DAUPHIN SOP HB-KEB / KEX / KFQ

	TAXI
	RELEASE
2. POWER	1000RPN
3. BRAKES	CHECK
4. FLIGHT INSTRUMENTS AIRSPEED HORIZON ALTIMETER TURN COORDINATOR DIRECTIONAL GYRO VERTICAL SPEED	READ "0 STABLE QNH, CHECK ALTITUDE TURN IN THE SIDE OF THE CURVE, BALL EXTERIOR INDICATION: INCREASE (R) AND DECREASE (L READ "0 FREE
1. WAIT THAT THE ENGINE WARM U	JP CYLINDER HEAD TEMPERATURE IN THE GREEI OR TEMPERATURE OF OIL MINI 40 OR IN THE WINTER, WAIT MINI 5-10 MIN
	TAKE-OFF BRIEFING
1. SPEED	V
	V2
	v _j
2. ROUTING	1 st HEADING
	1stALTITUDE
3. EMERGENCY PROCEDURE:	
ANY FAILURE BEFORE Vr	POWER IDLE
	BRAKE, MAINTAIN RUNWAY AXIS
	ADVISE ATO
	·
ENGINE FAILURE AFTER Vr	·
ENGINE FAILURE AFTER Vr UP TO 1000FT/GROUND	ADVISE ATO
ENGINE FAILURE AFTER Vr UP TO 1000FT/GROUND	ADVISE ATO
ENGINE FAILURE AFTER VI UP TO 1000FT/GROUND	LAND STRAIGHT AHEAD, Vbest glid LAND STRAIGHT AHEAD OR BACK ON RUNWAY, Vbest glid APPROACH BRIEFING
ENGINE FAILURE AFTER VI UP TO 1000FT/GROUND FROM 1000FT/GROUND	ADVISE ATO LAND STRAIGHT AHEAD, Vbest glide LAND STRAIGHT AHEAD OR BACK ON RUNWAY, Vbest glide
ENGINE FAILURE AFTER VI UP TO 1000FT/GROUND FROM 1000FT/GROUND 1. ENTRY POINT 2. RUNWAY IN USE	LAND STRAIGHT AHEAD, Vbest glide LAND STRAIGHT AHEAD OR BACK ON RUNWAY, Vbest glide APPROACH BRIEFING CHECKED BRIEFEE
ENGINE FAILURE AFTER VI UP TO 1000FT/GROUND FROM 1000FT/GROUND 1. ENTRY POINT 2. RUNWAY IN USE 3. ALTITUDE OF DOWNWIND	LAND STRAIGHT AHEAD, Vbest glide LAND STRAIGHT AHEAD OR BACK ON RUNWAY, Vbest glide APPROACH BRIEFING CHECKEE
ENGINE FAILURE AFTER VI UP TO 1000FT/GROUND FROM 1000FT/GROUND 1. ENTRY POINT 2. RUNWAY IN USE 3. ALTITUDE OF DOWNWIND 4. ALTITUDE OF AIRPORT	LAND STRAIGHT AHEAD, Vbest glide LAND STRAIGHT AHEAD OR BACK ON RUNWAY, Vbest glide APPROACH BRIEFING CHECKED BRIEFED BRIEFED
ENGINE FAILURE AFTER VI UP TO 1000FT/GROUND FROM 1000FT/GROUND 1. ENTRY POINT 2. RUNWAY IN USE 3. ALTITUDE OF DOWNWIND 4. ALTITUDE OF AIRPORT 6. SPEED	LAND STRAIGHT AHEAD, Vbest glide LAND STRAIGHT AHEAD OR BACK ON RUNWAY, Vbest glide APPROACH BRIEFING CHECKED BRIEFED BRIEFED BRIEFED INITIAL
ENGINE FAILURE AFTER VI UP TO 1000FT/GROUND FROM 1000FT/GROUND 1. ENTRY POINT 2. RUNWAY IN USE 3. ALTITUDE OF DOWNWIND 4. ALTITUDE OF AIRPORT 6. SPEED	LAND STRAIGHT AHEAD, Vbest glide LAND STRAIGHT AHEAD OR BACK ON RUNWAY, Vbest glide APPROACH BRIEFING CHECKEL BRIEFEL BRIEFEL BRIEFEL

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	01 - CHECKS BEFORE STARTING ENGINE	

1. OUTSIDE CHECKS	PERFORMED
2. SEATS POSITION	ADJUSTED & LOCKED
3. SEAT BELTS & SHOULDER HARNESSES	FASTENED & ADJUSTED
4. PARKING BRAKE	SET
5. ELECTRICAL CONSUMERS	OFF
6. MASTER SWITCH & ALTERNATOR	ON
7. CIRCUIT BREAKERS	IN
8. ANNUNCIATOR LIGHTS	TEST & DAY POSITION
9. ELT	AUTO / ARMED
10. FUEL QUANTITY & ENDURANCE	CHECKED
11. FUEL SELECTOR	
12. AUXILIARY TANK	AS REQUIRED
13. CARBURETOR HEATER	COLD
1/ MIYTIDE	RICH

02 - STARTING ENGINE

1. NAV LIGHT & STROBE	ON
2. FUEL PUMP / PRESSURE	ON / GREEN SECTOR
3. MAGNETOS	LEFT
4. CANOPY	CLOSED & LOCKED
5. THROTTLE	INJECTION & 1-2 CM FORWARD
6. PROPELLER AREA	CLEAR
7. STARTER	ENGAGE
8. MAGNETOS	вотн
9. POWER	1000 - 1200 RPM
10. OIL PRESSURE	CHECKED

03 - CHECK AFTER STARTING ENGINE

1. FUEL PUMP / PRESSURE	OFF / CHECKED
2. AMMETER	GREEN SECTOR
3. ANNUNCIATOR LIGHTS	EXTINGUISHED EXCEPT FLAPS
4. STROBE LIGHT	OFF

04 - BEFORE TAXI

1. FLAPS	UP
2. VENTILATION, HEATER & DEFROSTER	
3. AVIONICS	ON, SET
4. ATIS	RECEIVED
5. DIRECTIONAL GYRO	SET

READY FOR TAXI

DR40 - 140B DAUPHIN TAXI HB-KEB / KEX / KFQ

05 - T	AXI
1. TAXI LIGHT	ON
2. BRAKES & STEERING	CHECKED
3. MAGNETIC COMPASS	FREE, FULL OF FLUID
4. GYROS	CHECKED

06 - RUN-UP		
1. PARKING BRAKE	SET	
2. POWER	1000-1200RPM	
3. TAXI LIGHT	OFF	
4. ENGINE INSTRUMENTS	GREEN ARCS	
5. CANOPY	CLOSED & SECURED	
6. MIXTURE		
7. POWER	2000 RPM	
8. GYRO-SUCTION	CHECKED	
9. AMMETER	CHECKED	
10. MAGNETOS	CHECKED L/R(175/50)THEN "BOTH"	
11. CARBURETOR HEATER	CHECKED	
12. MIXTURE	CHECKED	
13. IDLE	600-650RPM	
14. POWER	1000-1200RPM	

07 - CHECK BEFORE DEPARTURE		
1. SEAT BELTS & SHOULDER HARNESSES	SECURED CHECKED	
2. FUEL QUANTITY	ENDURANCE CHECKED	
3. FUEL SELECTOR		
4. AUXILIARY TANK AS REQU		
5. MIXTURE	FULL RICH	
6. CARBURETOR HEATER		
7. MAGNETOS	CHECKED BOTH	
8. CONTROLS	FREE	
9. ELEVATION TRIM	T/O POSITION	
9. FLAPS	CHECK FUNCTION & T/O POSITION	
10. FLIGHT INSTRUMENTS & AVIONICS	CHECKED	
11. SPEEDS, Vr 54 kt / Vx 70 kt / Vy 81kt	BRIEFED	
12. DEPARTURE ROUTING, 1st HDG, 1st ALT	BRIEFED	
13. EMERGENCY PROCEDURES	BRIEFED	

READY FOR DEPARTURE

08 - BEFORE & LII	NE-UP
1. CANOPY	CLOSED & SECURED
2. LANDING LIGHT & STROBE	ON
3. AVIONIC & X-PANDER	SET ACCORDING ATC
4. FUEL PUMP	ON
5. APPROACH SECTOR	FREE
6. WIND	CHECKED

40 - 140B DAUPHIN TAKE OFF - 0	CRUISE - APPROACH HB-KEB / KEX / KFQ
00 TAVE OF	- & INITIAL CLIMB
	SET WITH RUNWAY HEADING
	CHECK
	RELEASED & FREE
	FULL POWER / 2200 RPM MIN CHECKED
	CHECKED
	REACHED, ROTATION
	ESTABLISHED
. FLAPS	UP
10 - CLI	MB CHECK
FLAPS	CHECKED UP
	OFF
	OFF / GREEN SECTOR CHECKED
11 - CRUISE CHECK	(& EVERY 15 MINUTES
TI ONOICE OFFICE	VA EVERT 10 MINOTES
. ALTIMETER	SET
. DIRECTIONAL GYRO	CHECKED
. ENGINE INSTRUMENTS	CHECKED
. CRUISE POWER SETTING	CHECKED
. MIXTURE SETTING	CHECKED
FUEL MA	NAGEMENT
. FUEL QUANTITY AND ENDURANCE REMAININ	NG CHECKED
. FUEL SELECTOR	CHECKED OPEN
. AUXILIARY TANK	AS REQUIRED
12 - DESCENT	FOR APPROACH
ATIS	RECEIVED
	BRIEFED
	CHECKED
	CHECKED
	SET
	CHECKED / IF REQUIRED
	ENRICH ACCORDING TO DESCENT
13 - APPROAC	CH PREPARATION
. LANDING LIGHT	ON
. ALTIMETER	SET
. DIRECTIONAL GYRO	SET
. FUEL QUANTITY & ENDURANCE	CHECKED
	ON
	AS REQUIRED
	CHECKED / IF REQUIRED

DR40 - 1406 DAUPHIN LAP	NDING - PARKING HB-KEB / KEX / KFG
14 - 1	FINAL CHECK
1 FLARS LING POSITION	CHECKEL
	CHECKED COLI
	SET & TRIM
, , , , , , , , , , , , , , , , , , , ,	
15 - BALKED LA	ANDING - [GO AROUND]
1. POWER	FULL THROTTLI
2. CARBURETOR HEATER	CHECKED COLI
3. ATTITUDE & SPEED	ESTABLISHEI
4. FLAPS	T/O POSITION
16 - Al	FTER LANDING
1. STROBE LIGHT	OFI
2. LIGHTS	LANDING OFF & TAXI O
3. X-PANDER	STB'
4. FUEL PUMP	OF
5. FLAPS	UI
17 - ENG	SINE SHUT DOWN
1 PARKING BRAKE	SE
	1000 RPI
	OF
	LISTENEI
	OF
	T/O POSITION
	FULL DOWI
	CLOSED & SECUREI
	IDLE CUT-OF
	CLOSEI
	OF
	REMOVE
	OF
	OF
	NOTE
18	- PARKING
	REMOVED, CHECKEI
	OFF, CHECKEI
	CLOSEI
	CHOCKED & SECUREI
	TIDYEI
6. CONTROLS (PIC SEAT)	LOCKE
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LANDING - PARKING

DR40 - 140B DAUPHIN

HB-KEB / KEX / KFQ

EMERGENCY PROCEDURES

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ENGINE FAILURE DURING TAKEOFF (ROLL)

With sufficient runway remaining:

Throttle to idle, and stop in the runway axis using brakes as required.

Without sufficient runway remaining:

1. Throttle	idle
2. Brakes	apply heavily
3. Mixture	idle cut-off
4. Fuel valve	closed
5. Magnetos switch	off
6. Battery switch	off

ENGINE FAILURE IMMEDIATELY AFTER TAKE OFF

Glide speed (flaps in takeoff position)	(73 kt) 135 km/h
2. Mixture	idle cut-off
3. Fuel valve	off
4. Magnetos switch	off
5. Battery switch	off

NOTE CAREFULLY

Land straight head, with only small direction changes to avoid obstructions.

Never try to turn back to the runway, as altitude after take off is seldom sufficient.

ENGINE FAILURE IN FLIGHT

If altitude is evaluated to be sufficient to try an engine restart

Establish maximum glide speed, flaps up 145 km/h (78 kt). In these conditions,
and without wind, the aircraft covers approximately 9.3 times its altitude.

1.	Fuel valve	open
2.	Electric pump	on
3.	Mixture	fully rich
4.	Throttle	1/4 travel forward
5.	Magnetos switch	L + R ("Both")
	If the propeller still turns, the engine should restart.	
	If the propeller is stopped, operate the starter.	
	If the engine still does not start, prepare for a forced landing, foll	lowing the
	procedure below.	

POWER OFF FORCED LANDING OFF AIRFIELD

Look for a suitable landing area:

1.	Belts and harness	tight
2.	Electric pump	off
3.	Mixture	idle cut-off
4.	Throttle	to idle
5.	Magneto switch	off
6.	Fuel valve	off
7.	Alternator switch	off
8.	Battery switch	off

Final

Flaps	full dowr
Canopy	unlock

PRECAUTIONARY POWER LANDING ON AIRFIELD

Fly over the choose field several times at low speed (130 km/h - 70 kt) in order to locate the most suitable landing area, flaps in "takeoff" position (1st notch) then make a precautionary approach at 120 km/h (65 kt), flaps in landing configuration (2nd notch)

On final, unlock the canopy

Before touchdown:

1.	Magneto switch	off
2	Rattery switch	off

NOTE: IN CASE OF CANOPY JAMMING

Canopy handle in " open " position.

Free the two canopy release levers located on the arm rests, on both sides of the instrument panel, and place them in vertical position.

FIRE

Engine fire during starting:

Keep the engine turning with:

1. Fuel valve	off
2. Electric pump	off
3. Throttle	full power
4. Mixture	idle cut-off

The aim of this procedure is to make the engine "swallow" the accumulated fuel in the inlet pipes (generally following an excess of fuel injection during a difficult engine start).

If the fire continues

1.	Magneto switch	. Of
2.	Battery switch	of
3.	Alternator switch	. of

Abandon the aircraft, and try to extinguish the fire with the aids available: fire extinguishers, covers, clothing, or sand.

Engine fire in flight

1. Fuel valve	off
2. Throttle	full power until engine stops
3. Mixture	idle cut-off
4. Electric pump	off
5. Alternator switch	off
6. Cabin heat and ventilation	off
7. Establish maximum glide speed	78 kt (145 km/h)

Prepare for a forced landing off airfield, following the procedures in the chapter "Power off forced landing off airfield" Do not attempt to restart the engine.

Cabin fire:

Extinguish the fire by means possible (optional extinguisher)

To eliminate smoke, apply maximum ventilation.

In case an electrical fire (fumes indicating insulation burning)

1. Cabin ventilation	reduce
2. Alternator switch	off
3. Battery switch	off
4. Battery breaker	
5. Alternator breaker	pull out
Land quickly if the fire continues.	

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VIBRATIONS AND ENGINE ROUGHNESS OPERATION

Vibrations and engine roughness operation are generally due to (verify in this order)

- 1. Carburetor icing: see paragraph "ICING" on the next page
- 2. Mixture set too rich or lean: adjust the mixture
- 3. Contamination in the fuel system: verify fuel pressure. Switch on the fuel pump
- 4. Ignition failure: magneto switch on "L", then "R", then return to "BOTH". select the position proving best engine operation, and fly to the nearest airfield, reduced power, and adjust mixture control to obtain smooth operation.

LOW OIL PRESSURE

In case of fuel low oil pressure indication, check oil temperature, and if it is too high (red arc)

1. Reduce power

DR40 - 140B DAUPHIN

2. Flight to the nearest airfield, and prepare for an off airfield landing

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- 1. Carburetor heator
- 2. Increase power in order to reduce ice built-up to minimum
- 3. Switch on the PITOT heat (if installed)
- 4. Select maximum cabin heat, and direct the total output to the windscreen (position "defrost") in order to remove the ice quickly
- 5. Turn back, or change altitude, to obtain an outside air temperature less conducive to icing.
- 6. Plan to land at the nearest airfield.

With an extremely rapid ice built-up, carry out a forced landing.

Remember that a layer of 0.5 cm (0.2 in) on the wing leading edge fairly increases stall speed. If needed, use a higher than normal approach speed: 135 km/h (73 kt)

REMARKS

If continuous carburetor heat is deemed necessary, it is imperative to adjust the mixture control to obtain normal engine operation.

Always use carburetor heat fully on or fully off, in certain cases, an intermediate position could increase icing. DR40 - 140B DAUPHIN EMERGENCY PROCEDURES HB-KEB / KEX / KFQ

ELECTRICAL POWER SUPPLY MALFUNCTION

Alternator failure is indicated when the amber "alternator failure" light on the warning panel is lit, and a progressive drop in voltage (show on the voltmeter).

If "alternator failure" is lit

Switch off the alternator, when back on.

This operation resets the overvoltage relay which may have cut-out due to a transient overvoltage.

If the failure continues

- 1. Switch off the alternator
- 2. Switch off all electrical equipment not essential for continuing the flight
- 3. Land as soon as possible, and have the electrical system inspected

NOTE

An alternator failure does not prevent the engine from operating normally

INADVERTENT SPIN

Should a spin occur, use the following procedure:

- 1. Throttleidle2. Ruddermaximum opposite to direction of rotation3. Elevatorneutral5. Aileronsneutral
- 6. Once rotation stops, rudder to neutral position and recover within flight limitations.

NOTE

If flaps are down when spin begins, retract them immediately.

LOSS OF ELEVATION CONTROL

In the event of loss of elevator control (accidental disconnecting):

Stabilize the aircraft in level flight, flaps up, at 130 km/h (70 kt), using the elevator trim and throttle.

Do not change the elevator trim setting, and control the angle of descent only with throttle. Reduce power only on short final, and near to the ground.

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