

CHECKLIST FOR NORMAL OPERATION ROBIN DR40

Parameters, restrictions, procedures and emergency procedures see AFM

BEFORE FIRST FLIGHT

1. Aircraft & Cockpit inspection..... COMPLETED
2. Passenger briefing COMPLETED
3. Controls FREE & CORRECT
4. Flaps (full Range)..... CHECKED

BEFORE ENGINE START

1. Parking brake..... SET
2. Flight time counter..... RECORDED
3. Ignition key OFF
4. Seats ADJUSTED & LOCKED
5. Seat belts / Shoulder harnesses FASTENED & ADJUSTED
6. Elevator trim TAKE OFF
7. Flaps UP
8. Altimeter..... SET
9. Battery ON
10. Fuel quantity CHECKED
11. Fuel selector MAIN OPEN / AUX. CLOSED
12. Carburetor heat OFF
13. Annunciator warnings TEST
14. Avionic OFF

READY FOR ENGINE START**ENGINE START**

1. Propeller area CLEAR
2. Engine start..... [according Procedures list](#)

ENGINE START COMPLETED**AFTER ENGINE START**

1. Oil pressure..... CHECKED
2. Alternator ON
3. Voltmeter CHECKED GREEN ARC
4. Gyro suction CHECKED
5. Magnetos BOTH
6. Fuel pump OFF
7. Annunciator warnings OFF
8. Avionic / Transponder..... ON
9. Avionic PRESELECTED

READY FOR TAXI

TAXI

- 1. Brakes & Steering..... CHECKED
- 2. Gyro instruments..... CHECKED

TAXI CHECK COMPLETED

ENGINE TEST

- 1. Warm up time CHECKED
- 2. Space behind Aircraft..... FREE
- 3. Run up according Procedures list

ENGINE TEST COMPLETED

BEFORE DEPARTURE

- 1. Seats LOCKED
- 2. Seat belts / Shoulder harnesses FASTENED
- 3. Fuel pump ON
- 4. Fuel quantity CHECKED
- 5. Fuel selector MAIN OPEN / AUX. CLOSED
- 6. Mixture..... SET
- 7. Carburetor heat OFF
- 8. Magnetos BOTH
- 9. Controls FREE & EASY
- 10. Elevator trim TAKE OFF
- 11. Flaps TAKE OFF
- 12. Flight instruments SET
- 13. Avionic SET
- 14. Transponder CODE SET
- 15. Takeoff briefing COMPLETED
- 16. Canopy CLOSED & LOCKED

READY FOR DEPARTURE

CLIMB

- 1. Flaps..... UP
- 2. Power..... CHECKED
- 3. Fuel pump OFF except Circuits

CLIMB CHECK COMPLETED

CRUISE

- 1. Flight- & Engine instruments CHECKED
- 2. Fuel..... CHECKED
- 3. Power..... SET / CHECKED

CRUISE CHECK COMPLETED

APPROACH

1. Approach briefing COMPLETED
2. Seats LOCKED
3. Seat belts / Shoulder harnesses FASTENED
4. Flight instruments SET
5. Avionic SET
6. Fuel pump ON
7. Fuel quantity CHECKED
8. Fuel selector AUX. CLOSED
9. Mixture..... SET
10. Carburetor heat AS REQUIRED

APPROACH CHECK COMPLETED**FINAL**

1. Flaps SET
2. Brakes (pressure)..... CHECKED
3. Brakes FREE

FINAL CHECK COMPLETED**AFTER LANDING**

1. Carburetor heat OFF
2. Flaps UP
3. Electrical consumers AS REQUIRED

AFTER LANDING CHECK COMPLETED**PARKING & ENGINE SHUT DOWN**

1. Time (Block on) CHECKED
2. Engine shut down according Procedures list
3. Magnetos OFF
4. Avionic 121.500 TEST
5. Avionic / Transponder..... OFF
6. Battery OFF
7. Flaps FULL DOWN
8. Flight data RECORDED
9. Aircraft CHOCKED / SECURED

PARKING CHECK COMPLETED

FIRE ON GROUND

- 1. Starter..... CRANK ENGINE
- 2. Mixture..... IDLE CUT OFF
- 3. Throttle FULL OPEN
- 4. Fuel pump OFF
- 5. Fuel selector OFF
- 6. Battery / Alternator OFF
- 7. Pax and Crew EVACUATE

FIRE IN FLIGHT

- 1. Source of fire IDENTIFY

ELECTRICAL FIRE (Smoke in cabin)

- 1. Battery / Alternator OFF
- 2. Vents OPEN
- 3. Cabin heat OFF

LAND AS SOON AS PRACTICABLE

ENGINE FIRE

- 1. Fuel selector OFF
- 2. Throttle CLOSED
- 3. Mixture..... IDLE CUT OFF
- 4. Fuel pump OFF
- 5. Cabin heater and Defroster OFF
- 6. Elevator trim SET FOR BEST GLIDE 78 KIAS

PREPARE FOR POWER OFF EMERGENCY LANDING

ENGINE POWER LOSS IN FLIGHT

- 1. Attitude BEST GLIDE SPEED 78 KIAS
- 2. Fuel selector OPEN MAIN & AUX
- 3. Fuel pump ON
- 4. Mixture..... RICH
- 5. Carburetor heat ON
- 6. Ignition..... BOTH
- 7. Engine gauges CHECK CAUSE OF POWER LOSS

When power is restored

- 8. Carburetor heat OFF
- 9. Fuel pump OFF

If power is not restored

- 10. Elevator trim SET FOR BEST GLIDE 78 KIAS

PREPARE FOR POWER OFF EMERGENCY LANDING

EMERGENCY LANDING

Trimm for best glide speed 78 KIAS

Locate suitable field

When the landing field can easily be reached

- 1. Seat belts / Shoulder harnesses TIGHT
- 2. Fuel selector CLOSE MAIN & AUX
- 3. Mixture..... IDLE CUT OFF
- 4. Throttle IDLE
- 5. Ignition..... OFF
- 6. Battery / Alternator OFF
- 7. Flaps FULL DOWN
- 8. Speed REDUCE FOR FINAL APPROACH

ALTERNATOR FAILURE

No Alternator output (low Voltage)

or Alternator-Warning (Annunciatorpanel) illuminates

1. Alternator switch CHECK ON
 2. Alternator circuit breaker CHECK PUSH IN
- if 1 and 2 are checked on/in and still no output**

ALTERNATOR RECYCLING PROCEDURE

3. Electrical consumers OFF as practicable
 4. Alternator switch OFF
 5. Alternator switch ON aft. 5-10 s
 6. Alternator output CHECKED
- if still no output**
7. Electrical consumers OFF as practicable
- Land on the nearest Airport as practicable**

RADIO FAILURE

NO RADIOCONTACT WITH TWR / ACC

1. Radio ON
 2. Vol..... TEST
 3. Frequency..... CHECKED
 4. Headset / Mike plugs CHECKED
- if still no contact**

remain outside of Airspace

LOSS OF RADIOCONTACT WITH TWR / ACC

1. Radio ON
 2. Vol..... TEST
 3. Headset / Mike plugs CHECKED
- if still no contact**
4. Transponder 7600 / ALT
 5. Procedure ACCORDING AIP

Jan11
v5.2

FLUGSCHULE GRENCHEN

NOTES

Robin Dauphin 4

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SPEEDS FOR OPERATION AT MAX. TAKE OFF MASS (MTOM) KIAS

Rotate	FLAPS 1	53
Best angle v_x	FLAPS UP or 1	70
Best rate v_y up to 2000 ft AGL.....	FLAPS UP	81
Cruise climb v_{cc} above 2000 ft AGL	FLAPS UP	90
Initial approach	FLAPS 1	80
Intermediate approach	FLAPS 2	70
Final approach	FLAPS 2	62
Go around.....	before FLAPS UP	60
Best glide.....	FLAPS UP	78
Max. demonstrated Crosswind		22 KT
Max. Speed for Flaps 1		92
Max. Speed for Flaps 2		81

POWER SETTINGS

Take off and Climb	Throttle full open
Cruise and Cruise descent up to 5000 ft AMSL	2300 RPM
Cruise and Cruise descent above 5000 ft AMSL.....	2400 RPM
Approach descent.....	2200 RPM

RUN UP

Engine	2000 RPM
Magnetos max. drop / diff	175 / 50 RPM
Idle.....	500-700 RPM

POSTFLIGHT

Refuel standard.....	Main full / Aux. empty
Refill Oil	if below 4 QTS to max. 8 QTS

LOADING

HB-	Empty mass		Moment [m · kg]	Cabine load with Fuel [kg]		MTOM	
	[lb]	[kg]		standard	full	[lb]	[kg]
KBV	1376.3	624.3	202.82	303.7	267.7	2205	1000
KDV	-	-	-	-	-	2205	1000
KIY	1393.3	632.0	205.82	296.0	260.0	2205	1000

REFUELING

Standard	26.4 USG	100 l	72 kg	159 lb
Full	39.6 USG	150 l	108 kg	238 lb