

Ju87

RPM ENGINE

Continuous: 2275 - 5,5 L/min

Combat: 2425 (ATA 1.3 low alt)- 6 L/min

Take-off: 1 minute

Best performance:

Speed: 5k - 6k

Climb: 2k

Speed

Take-off: **140/170**

Landing: **125/145**

Emerg. glideslope: **230**

EMERGENCY checklist:

- RPM lever: back
- Radiators: **0%** **Water** and **0%** **Oil**
- Emerg. glideslope: **230**
- 10km every 1k meters

Checklist Take-off:

- Radiators **Water** and **Oil** open
- Tail wheel: locked
- Pitch: 100%
- Flaps: Take-off
- Brakes ON + RPM: **1700**
- Brakes OFF + ATA: **MAX**
- Tail up: **120**
- Rotate: **140/170**

ENGINE MANAGEMENT

Water: 80° (max 110°) **Best:** 0%

Oil: 90° (max 105°) **Best:** 0%

200 liters: **36 min** - **33 min**

Fuel: 160 Liters - **29 min** - **26 min**

Worst performance:

Speed: **3,5k** - **4,5k**

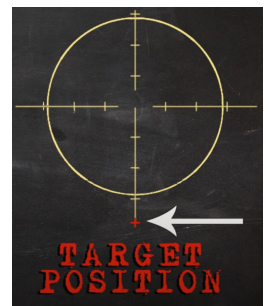
Climb: **250**

Corner: **230** (22,2s)

Dive: **650**

Drop bombs checklist:

- Drop altitude: **500-400m**
- Speed: above **500km/h**
- Trim: nose up



Checklist Landing:

- Radiators **Water** and **Oil** closed
- Tail wheel: locked
- Pitch: 100%
- Final: **180/195**
- Touchdown: **125/145**



Hs 129

RPM ENGINE

Continuous: 2400 (Manual!) - 5 L/min

Combat: 2750 - 5,5 L/min

Boosted: 1 minute

Best performance:

Speed: 3k

Climb: 1k

Speed

Take-off: 145/155

Landing: 135/145

Emerg. glideslope: 230

EMERGENCY checklist:

- Select damaged engine
- RPM: manual
- Select the working engine
- Emerg. glideslope: 230
- 10km every 1k meters

Checklist Take-off:

- Mixture: 100%
- RPM: manual
- Boost: ON
- Flaps: take-off
- Brakes ON + RPM: 1700
- Brakes OFF + ATA: MAX
- Tail up: 120
- Rotate: 145/155
- Boost: OFF
- RPM: auto
- Flaps: off
- Mixture: Autolean (33%)

ENGINE MANAGEMENT

200 liters x mot: 40 min - 36 min

Fuel: 50 liters x eng. - 10 min - 9 min

Worst performance:

Speed: 4k

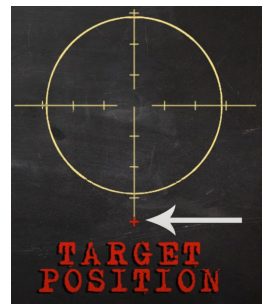
Climb: 210

Corner: 190 (24,6s)

Dive: 670

Drop bombs checklist:

- Drop altitude: 500-400m
- Speed: above 500km/h
- Trim: nose up



Checklist Landing:

- Mixture: Autorich (33%)
- RPM: auto
- Final: 180/200
- Touchdown: 135/145



Bf110 E2

RPM ENGINE

Continuous: 2275 - 5,5 L/min

Combat: 2400 - 6 L/min

Emergency: 2425 2 minutes

Boosted: 1 minute

Best performance:

Speed: 5k (4k - 5,5k)

Climb: 1k (0,5k - 2,5k)

Speed

Take-off: 180/220

Landing: 140/160

Emerg. glideslope: 230

EMERGENCY checklist:

- Select damaged engine
- Propellers feathering
- Radiators 0% **Water** and 0% **Oil**
- Select the working engine
- Emerg. glideslope: 230
- 10km every 1k meters

Checklist Take-off:

- Radiators **Water** and **Oil** open
- Flaps: 20°
- Brakes ON + RPM: 1300
- Brakes OFF + ATA: **MAX**
- Tail up: 120
- Rotate: 180/220

ENGINE MANAGEMENT

Water: 94° (max 100°) **Best:** 0%

Oil: 30°/75° (max 80°) **Best:** 0%

200 liters: 36 min - 33 min

Fuel: 50 liters x eng. - 9 min - 8min

Worst performance:

Climb: 3,5k

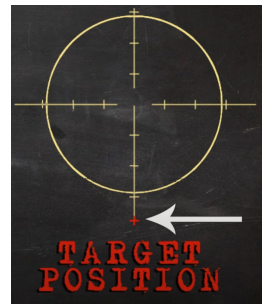
Climb: 280

Corner: 230 (26,7s)

Dive: 740

Drop bombs checklist:

- Drop altitude: 500-400m
- Speed: above 500km/h
- Trim: nose up



Checklist Landing:

- Radiators **Water** and **Oil** closed
- Final: 200/220
- Touchdown: 140/160



Bf110 G2

RPM ENGINE

Continuous: 2350 - 5,5 L/min

Combat: 2675 - 6 L/min

Emergency: 2475 1 minute

Best performance:

Speed: **6k** (5k - 7k)

Climb: **1k - 3k**

Speed

Take-off: **190/230**

Landing: **150/170**

Emerg. glideslope: **230**

EMERGENCY checklist:

- Select damaged engine
- Propellers feathering
- Radiators **0% Water and 0% Oil**
- Select the working engine
- Emerg. glideslope: **230**
- 10km every 1k meters

Checklist Take-off:

- Radiators **Water** and **Oil** open
- Flaps: 20°
- Brakes ON + RPM: **1100**
- Brakes OFF + ATA: **MAX**
- Tail up: **120**
- Rotate: **190/230**

ENGINE MANAGEMENT

Water: 100° (max 115°) **Best:** 0%

Oil: 70°/80° (max 85°) **Best:** 0%

200 liters: **36 min - 33 min**

Fuel: 50 liters x eng. - **9 min - 8 min**

Worst performance:

Climb: **0k - 1k**

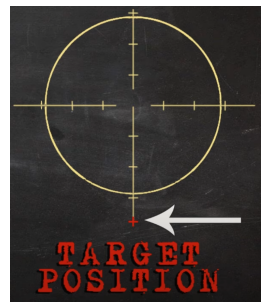
Climb: **270**

Corner: **230** (26,7s)

Dive: **740**

Drop bombs checklist:

- Drop altitude: **500-400m**
- Speed: above **500km/h**
- Trim: nose up



Checklist Landing:

- Radiators **Water** and **Oil** closed
- Final: **210/230**
- Touchdown: **150/170**



Bf410

RPM ENGINE

Continuous: 2325 - 7,5 L/min

Combat: 2525 - 8,5 L/min

Take-off: 1 minute

ENGINE MANAGEMENT

Water: 100° (max 115°) **Best:** 20%

500 Liters: 33 min - 29 min

Fuel warn.: 200 liters - 13 min - 11 min

Best performance:

Speed: **DB-603A** 6k - 7k /// **DB-603Aa** 7k - 8,5k

Climb: **1,5k** (0k - 2k)

Worst performance:

Speed

Take-off: **180/200**

Landing: **160/190**

Emerg. glideslope: **230**

Climb: **290**

Corner: **310** (26,7s)

Dive: **750**

EMERGENCY checklist:

- Select damaged engine
- Propellers: manual (clock: 7.30)
- Radiators **0%** **Water**
- Select the working engine
- Emerg. glideslope: **230**
- 10km every 1k meters

Stuvi & Autopilot:

- Altitude target (RShift + . / +ò)
- Wind (RAlt + . / +ò)
- RAlt+A (Autopilot)
- RAlt+R/P/Y (Activate Roll)
- RAlt+arrows (Autopilot)
- Airbrakes

Conversion m/s -> Km/h

1 m/s -> 3,6 km/h

3 m/s -> 10,8 km/h

5 m/s -> 18 km/h

10 m/s -> 36 km/h

Checklist Take-off:

- Radiators **Water** open
- Flaps: take-off
- Brakes ON + RPM: **2200**
- Brakes OFF + ATA: **MAX**
- Tail up: **120**
- Rotate: **180/200**

Checklist Landing:

- Radiators **Water** closed
- Final: **210/240**
- Touchdown: **160/190**



Ju 88 A4

RPM ENGINE

Continuous: 2300 (ATA 1.2 low alt) - 5,5 L/min **Water:** 80° (max 110°) **Best:** 0%

Combat: 2400 (ATA 1.3 low alt)- 6 L/min

Take-off: 1 minute

Best performance:

Speed: 6k (4,5k - 6,5k)

Climb: 2k

Speed

Take-off: 170/210

Landing: 150/160

Emerg. glideslope: 230

EMERGENCY checklist:

- Select damaged engine
- Propellers feathering
- Shutters: closed
- Select the working engine
- Emerg. glideslope: 230
- 10km every 1k meters

Checklist Take-off:

- Shutters: open
- RPM: max
- Flaps: take-off
- Brakes ON + RPM: 1500
- Brakes OFF + ATA: MAX
- Tail up: 120
- Rotate: 170/210

ENGINE MANAGEMENT

Oil: 100° (max 130°)

200 liters x mot.: 36 min - 33 min

Fuel: 180 Liters - 16 min - 15 min

Worst performance:

Speed: 2k - 3k

Climb: 2k - 3k

Climb: 250

Corner: 250 (32s)

Dive: 670

Drop bombs checklist:

- Drop altitude: 500-400m
- Speed: above 500km/h
- Trim: nose up
- Airbrakes



Checklist Landing:

- Shutters: open
- Final: 210/220
- Touchdown: 150/160



Ju 88 C6

RPM ENGINE

Continuous: 2300 (ATA 1.2 low alt) - 5,5 L/min **Water:** 80° (max 110°) **Best:** 0%

Combat: 2400 (ATA 1.3 low alt) - 6 L/min

Take-off: 1 minute

ENGINE MANAGEMENT

Oil: 100° (max 130°)

200 liters x mot.: 36 min - 33 min

Fuel: 180 Liters - 16 min - 15 min

Best performance:

Speed: 6k (5k - 7k)

Climb: 4k - 5k

Worst performance:

Speed: 2k - 3k

Speed

Take-off: 170/210

Landing: 150/160

Emerg. glideslope: 230

Climb: 250

Corner: 250 (26,8s)

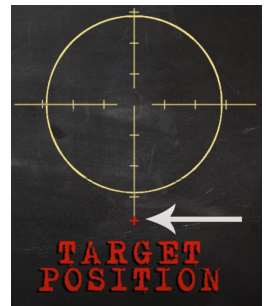
Dive: 670

EMERGENCY checklist:

- Select damaged engine
- Propellers feathering
- Shutters: closed
- Select the working engine
- Emerg. glideslope: 230
- 10km every 1k meters

Drop bombs checklist:

- Drop altitude: 500-400m
- Speed: above 500km/h
- Trim: nose up



Checklist Take-off:

- Shutters: apert
- RPM: max
- Flaps: take-off
- Brakes ON + RPM: 1500
- Brakes OFF + ATA: MAX
- Tail up: 120
- Rotate: 170/210

Checklist Landing:

- Shutters: open
- Final: 210/220
- Touchdown: 150/160



H111 H6

RPM ENGINE

Continuous: 2275 - 5,5 L/min

Combat: 2425 (ATA 1.3 low alt)- 6 L/min

Take-off: 1 minute

Best performance:

Speed: 6k (5k -7k)

Climb: 2k

Speed

Take-off: 170/210

Landing: 125/150

Emerg. glideslope: 230

EMERGENCY checklist:

- RPM lever: back
- Radiators: 0% **Water** and 0% **Oil**
- Emerg. glideslope: 230
- 10km every 1k meters

Checklist Take-off:

- Radiators **Water** and **Oil** open
- Pitch: 100%
- Flaps: 20°
- Brakes ON + RPM: 1700
- Brakes OFF + ATA: MAX
- Tail up: 120
- Rotate: 170/210

ENGINE MANAGEMENT

Water: 80° (max 110°) **Best:** 0%

Oil: 90° (max 105°) **Best:** 0%

500 liters x eng.: 90 min - 83 min

Fuel: 200 lit x mot. - 36 min - 33 min

Worst performance:

Speed: 2k - 3k

Climb: 2k - 3k

Climb: 230

Corner: 260 (38s)

Dive: 560

Checklist Landing:

- Radiators **Water** and **Oil** closed
- Pitch: 100%
- Final: 180/200
- Touchdown: 125/150



H111 H16

RPM ENGINE

Continuous: 2275 - 5,5 L/min

Combat: 2425 (ATA 1.3 low alt)- 6 L/min

Take-off: 1 minute

Best performance:

Speed: **6k** (5k -7k)

Climb: **1k - 2k**

Speed

Take-off: **170/210**

Landing: **125/150**

Emerg. glideslope: **230**

EMERGENCY checklist:

- RPM lever: back
- Radiators: **0%** **Water** and **0%** **Oil**
- Emerg. glideslope: **230**
- 10km every 1k meters

- Radiators **Water** and **Oil** open
- Pitch: 100%
- Flaps: 20°
- Brakes ON + RPM: **1700**
- Brakes OFF + ATA: **MAX**
- Tail up: **120**
- Rotate: **170/210**

ENGINE MANAGEMENT

Water: 80° (max 110°) **Best:** 50%

Oil: 90° (max 105°) **Best:** 0%

500 liters x eng.: **90 min** - **83 min**

Fuel: 200 lit x mot. - **36 min** - **33 min**

Worst performance:

Speed: **2,5k - 3,5k**

Climb: **2k - 3k**

Climb: **230**

Corner: **260** (38s)

Dive: **560**

- Radiators **Water** and **Oil** closed
- Pitch: 100%
- Final: **180/200**
- Touchdown: **125/150**



Ju 52

RPM ENGINE

Continuous: 1925 - 3,5 L/min

Combat: 1975 - 4 L/min

Take-off: 5 minutes

Best performance:

Speed: 0k - 3k

Speed

Take-off: 100/120

Landing: 95/110

Emerg. glideslope: 160


EMERGENCY checklist:


- Emerg. glideslope: 160
- 10km every 1k meters

Checklist Take-off:

- Mixture: 100%
- Trim: + 2° -> Flap -> +0°
- Tail up: 80
- Rotate: 100/120
- Trim: +0° -> Flap -> + 2° -> No Flap
- Mixture: ridurre sopra 1k

ENGINE MANAGEMENT

Oil OUT : 80° (max 100°) **Best:** 0%

Oil IN : 60° (max 80°) **Best:** 0%

400 Liters: 38 min - 33 min

Climb: 160

Corner: 170 (30s)

Dive: 330

Drop para checklist:

- Min. alt.: 150 m above ground level
- Min. speed: 160

Checklist Landing:

- Mixture: 100%
- Trim: + 2° -> Flap -> -1,5°
- Final: 140/155
- Touchdown: 95/110

