

**flugschule birrer**

Regionallflugplatz Grenchen SO



# **pilots checklist**



## **C - 172**

Issue: 1 Revision: 1 / 01. March 2019

## TRIP PREPARATION

1. CFPL\_\_\_\_\_ on board
2. MAPS\_\_\_\_\_ on board
3. KOSIF, NOTAM, meteo\_\_\_\_\_ checked
4. passport, pilot licence, AOPA card\_\_\_\_\_ on board
5. cash and credit cards\_\_\_\_\_ on board
6. trip equipment\_\_\_\_\_ on board
  - oxygen, lifewests
  - sick-bags
  - oil
  - aircraft documents
  - food & drinks
7. flightplan\_\_\_\_\_ filed
8. fueling\_\_\_\_\_ performed
9. GPS programming\_\_\_\_\_ completed
10. passenger ticket\_\_\_\_\_ filed

## PRE FLIGHT INSPECTION

1. control lock\_\_\_\_\_ removed
2. controls\_\_\_\_\_ free and easy
3. magnetos\_\_\_\_\_ off
4. circuit breakers\_\_\_\_\_ all in
5. trims\_\_\_\_\_ t/o position
6. radio master\_\_\_\_\_ off
7. electrical equipment\_\_\_\_\_ all off
8. master/alternator switch\_\_\_\_\_ on
9. fuel quantity\_\_\_\_\_ check l & r, note
10. master/alternator switch\_\_\_\_\_ off
11. exterior inspection\_\_\_\_\_ completed
12. weight & balance\_\_\_\_\_ checked

## BEFORE STARTING ENGINE

1. seat, seatbelts \_\_\_\_\_ adjust & secure
2. parking brake \_\_\_\_\_ set
3. radio master \_\_\_\_\_ off
4. electric equipment \_\_\_\_\_ off
5. circuit breakers \_\_\_\_\_ all in
6. master/alternator switch \_\_\_\_\_ on
7. passenger briefing \_\_\_\_\_ completed

***ready for startup***

## STARTING ENGINE

1. fuel selector \_\_\_\_\_ set
2. mixture \_\_\_\_\_ rich
3. carburetor heat \_\_\_\_\_ cold
4. throttle \_\_\_\_\_ 2 x full power
5. primer \_\_\_\_\_ in cold weather 2 x
6. throttle \_\_\_\_\_ 1 cm open
7. propeller area \_\_\_\_\_ clear
8. starter \_\_\_\_\_ engage
9. throttle \_\_\_\_\_ 1000 - 1200 RPM
10. oil pressure \_\_\_\_\_ within 30 sec
11. ammeter \_\_\_\_\_ charging

## CHECK BEFORE TAXI

1. rotating beacon \_\_\_\_\_ on
2. radio master \_\_\_\_\_ on
3. radios, GPS and NAV \_\_\_\_\_ on & set
4. flight instruments \_\_\_\_\_ set
5. giro \_\_\_\_\_ set & checked
6. altimeter \_\_\_\_\_ set QNH
7. flaps \_\_\_\_\_ full cycle / checked
8. ATIS \_\_\_\_\_ received
9. taxi clearance \_\_\_\_\_ received

***ready for taxi***

## TAXI CHECK

1. brakes\_\_\_\_\_left and right checked
2. steering\_\_\_\_\_normal
3. gyros\_\_\_\_\_turning correctly

## ENGINE RUN UP

1. parking brake\_\_\_\_\_set
2. engine instruments\_\_\_\_\_checked, oil temp. green  
arc
3. throttle\_\_\_\_\_1700 RPM
4. magnetos check left & right\_\_\_\_\_max. drop 75 RPM /  
max. difference 50 RPM
5. carburetor heat\_\_\_\_\_on and return to off
6. mixer\_\_\_\_\_checked, EGT rising
7. suction gauge\_\_\_\_\_green arc
8. ammeter\_\_\_\_\_charging
9. engine instruments\_\_\_\_\_checked
10. throttle\_\_\_\_\_1000 RPM

***engine run up completed***

## CHECK BEFORE DEPARTURE

1. seat belts, shoulder harness \_\_\_\_\_ fastened and checked
2. fuel quantity \_\_\_\_\_ checked
3. fuel selector \_\_\_\_\_ both
4. mixture \_\_\_\_\_ rich
5. carburetor heat \_\_\_\_\_ off
6. primer \_\_\_\_\_ locked
7. ignition / magnetos \_\_\_\_\_ both
8. flaps \_\_\_\_\_ 10°
9. trim tabs \_\_\_\_\_ take off position
10. doors \_\_\_\_\_ locked
11. windows \_\_\_\_\_ closed
12. radios \_\_\_\_\_ on & set
13. nav settings \_\_\_\_\_ completed
14. clock \_\_\_\_\_ set
15. altimeter \_\_\_\_\_ set QNH
16. giros \_\_\_\_\_ set
17. controls \_\_\_\_\_ free and easy
18. take off briefing \_\_\_\_\_ RWY , wind, speeds  
routing, altitude, restrictions, malfunctions

***ready for departure***

## LINE UP CHECK

1. approach sector \_\_\_\_\_ free
2. landing light \_\_\_\_\_ on
3. doors \_\_\_\_\_ closed
4. runway and heading \_\_\_\_\_ identified / checked
5. transponder \_\_\_\_\_ on as required
6. wind \_\_\_\_\_ visual checked
7. time \_\_\_\_\_ note

***line up completed***

## TAKE OFF

1. take off power \_\_\_\_\_ set / checked
2. brakes \_\_\_\_\_ released
3. speed \_\_\_\_\_ rising  
when safely airborne
4. flaps \_\_\_\_\_ up

## CLIMB CHECK

1. flaps \_\_\_\_\_ up
2. landing light \_\_\_\_\_ off
3. engine instruments \_\_\_\_\_ checked

***climb check completed***

## CRUISE CHECK

1. cruise power \_\_\_\_\_ according AFM
2. mixture lean \_\_\_\_\_ EGT / max. perf. 100 below
3. engine instruments \_\_\_\_\_ checked
4. altimeter \_\_\_\_\_ set & checked
5. fuel selector \_\_\_\_\_ both, left or right

***cruise check completed***

## PRE DESCENT CHECK

- A ATIS \_\_\_\_\_ received
  - B briefing for approach \_\_\_\_\_ done
  - C circuit breakers \_\_\_\_\_ all in
  - D directional gyros \_\_\_\_\_ set
  - E electronics and radios \_\_\_\_\_ set
  - F further planning \_\_\_\_\_ done
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- 2. mixture \_\_\_\_\_ enrich
  - 3. engine instruments \_\_\_\_\_ checked
  - 4. carburetor heat \_\_\_\_\_ as required

***pre descent check completed***

## CHECK FOR APPROACH

- A altimeter \_\_\_\_\_ set QNH
  - L landing light \_\_\_\_\_ on
  - S fuel selector \_\_\_\_\_ both
  - fuel quantity \_\_\_\_\_ checked
  - M mixture \_\_\_\_\_ rich
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- 2. power \_\_\_\_\_ 1900 – 2200 RPM
  - 3. flaps \_\_\_\_\_ 10°
  - 4. speed \_\_\_\_\_ 80 – 90 KIAS
  - 5. seatbelts \_\_\_\_\_ fastened & secured

***check for approach completed***

## BASE CHECK

- 1. flaps \_\_\_\_\_ 20°
- 2. speed \_\_\_\_\_ >75 KIAS

***base check completed***

## FINAL CHECK

1. gas (fuel selector, quantity)\_\_\_\_\_checked
2. mixture\_\_\_\_\_full rich
3. speed\_\_\_\_\_60-70 KIAS
4. flaps\_\_\_\_\_30°
5. carburetor heat\_\_\_\_\_off
6. runway\_\_\_\_\_identified
7. clear to land\_\_\_\_\_received

***final check completed***

## CHECK AFTER LANDING

1. time\_\_\_\_\_noted
2. flaps\_\_\_\_\_up
3. landing light\_\_\_\_\_off
4. transponder\_\_\_\_\_standby

***check after landing completed***

## ENGINE SHUT DOWN

1. electric consumers\_\_\_\_\_all off
2. avionics\_\_\_\_\_121.5 check, then off
3. mixture\_\_\_\_\_cut off
4. ignition\_\_\_\_\_off, key removed
5. master / alternator switch\_\_\_\_\_off
6. controls lock\_\_\_\_\_installed
7. fuel selector \_\_\_\_\_right
8. after flight briefing / logs\_\_\_\_\_done