



C-172M CHECKLIST (OCT 2021) B19

P.A.V.E.

P.....PERSONAL / PILOT

Illness/Meds/Stress/Alcohol/Fatigue/Emotion

A.....

AIRCRAFT

Air Worth / Registration / Ops Limits / W&B
Air Speed / Tach / Oil Press / Manifold Press /
Altimeter / Temp Gauge / Oil Temp / Fuel
Gauge / Land Gear Indicator / Anti-Collision /
Mag Compass / ELT / Safety Belts

V.....ENVIRON

MENT

NOTAMS / WX / Known ATC / Runway Length /
Alternates / Fuel Req / TO+Lnd Data / (TFR)

E.....**E**

XTERNAL

Invulnerability / Impulse / Macho / Get Home

PREFLIGHT INSPECTION

WX/NOTAM/TFR.....CH

ECK

FRAT.....CO

MPLETE

Weight/Balance.....COMPUT

E

Aircraft

Binder.....OBTAIN

Control

lock.....REMOVE

Cabin

Ignition

Switch.....OFF

Avionics

Master.....OFF

Master.....

.....ON

Fuel

Quantity.....CHEC

K

Flaps.....

.EXTEND

External Lights.....CHECK, then

OFF

Pitot Heat.....CHECK, then

OFF

Master.....

.....OFF

Baggage.....RESTRA

INED

FOD.....

.....CHECK

Fire Extinguisher.....IN

GREEN

Walk

Around.....PERFORM

PRE-START

Passenger

Brief.....,S.A.F.E.T.Y

Pre-flight

Inspection.....COMPLETE

Tiedown/Chocks/Towbar.....OU

T

Baggage

Door.....SECURE

Seats.....ADJUST/

LOCK

Safety

Belts.....FASTENED/SECURE

Fuel

Selector.....BOTH

Avionics

Master.....OFF

CAUTION:

Off to prevent avionics damage

Brakes.....TEST and

HOLD



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Circuit Breakers.....CHECK

IN

Loose

Items.....STOWED

ENGINE START

Mixture.....

....RICH

Carb

Heat.....CO

LD

Primer(2-6, 0 ifwarm)...IN/LOCKED

Masters (Batt + Alt)

.....ON

.....ON

Beacon.....

.....ON

Throttle.....OPEN 1/8

INCH

Prop Area....."CLEAR

PROP"

Ignition

Switch.....START

--(Throttle ADJUST to 1000 RPM)

Oil

Pressure.....CHE

CK

.....

-- (30" Summer / 60" Winter)

Starter.....DISENG

AGED

AFTER START

Avionics

Master.....ON

NAV

Lights.....

ON

Headset.....

...ON

COMMS.....AS

REQ'D

KPWM ASOS: 120.025

KSFM AWOS:119.05 CTAF: 123.0

Altimeter.....

.....SET

XPDR

Verify.....GRND

Flight

Instruments.....CHECK

Flaps.....

.....UP

Flight Plan.....OBTAIN /

LOAD

TAXI

Airport Diagram.....AS

REQ'D

Taxi

Light.....

...ON

Taxi

Area.....C

LEAR

Brakes.....

....TEST

Taxi

Clearance.....OBTAIN

During

Taxi.....VERIFY

-- Flight Instrument move in turns

-- Flt Controls Turn Into/Dive Away

CROSSWIND ROT'S

30° = 50% / 45° = 75% / 60° = 100%



C-172M CHECKLIST (OCT 2021) B19

VFR Day Min Equipment

Air Speed / Tach / Oil Press / Manifold Press /
Altimeter / Temp Gauge / Oil Temp / Fuel
Gauge / Land Gear Indicator / Anti-Collision /
Mag Compass / ELT / Safety Belts

VFR Night Min Equipment

Fuses/CB's (Spares) / Landing Light /
Anti-Collision Lights (Beacon / Strobes) /
Positions Lights (NAV) / Source of Electricity

IFR Min Equipment

Generator (Alternator) / Radio/Nav appropriate
for flight / Attitude / Ball (Inclinometer) / Clock
/ Altimeter (Pressure Sensitive) / Rate of Turn /
Dir Gyro / VOR (30)

ENGINE RUNUP

B19 CTAF: 123.0

Brakes.....
.....HOLD
Seat/Harness.....CHECK
SECURE
Door/Windows.....CLOSED/LOCKE
D
Flight
Controls.....FREE/CORRECT
Elevator
Trim.....TAKEOFF
Flight
Instruments.....SET
Radios.....
.....SET
Fuel
Selector.....BOT
H
Run Up Area.....CLEAR
BEHIND
Throttle.....170
0 RPM
-- Magnetos...**125 MAX/50 DIFF**

-- Carb Heat.....CHK RPM
DROP
-- Ammeter...CHK(Land Lt/Flaps)
- Engine Instruments...IN LIMITS
Throttle.....CHEC
K IDLE
Throttle.....1000 RPM
Throttle
Friction.....ADJUST
Primer.....IN/L
OCKED

PRE-TAKEOFF BRIEF

RWY / DEPT / FIX / HDG / ALT / SPD

Engine Fail/Abnormal on T/O Roll

- Throttle IDLE / Stop St-Ahead
- Ref ENG Fail – Reject Checklist

Engine Fail: Liftoff w/ RWY remain

-- Airspeed..**65 (Up) / 60 (10-Full)**

--
Throttle.....
DLE
-- Land.....MAX
BRAKING

Airborne: Insufficient Runway

-- Airspeed..**65 (Up) / 60 (10-Full)**

-- Landing

Area.....SELECT
-- Mixture.....IDLE CUT
OFF



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-- Fuel Shutoff
Valve.....CLOSED
-- Ignition
Switch.....OFF
--
Flaps.....
...A/R
--
Master.....
OFF
-- Land.....MIN
AIRSPEED
-- 180 Min ALT / Turn Direction ?
Takeoff ROT: 70% Spd / 50% Rwy

BEFORE TAKEOFF

DEPT: 119.75

Pre-Takeoff
Brief.....COMPLETE
Carb
Heat.....CO
LD
Mixture.....
.....RICH
Elevator
Trim.....TAKEOFF
Flaps.....
.....UP
Doors/Windows...CLOSED+LOCKED
XPDR.....
.....SET
Strobes.....ON (taking the
active)
Land Lt.....ON (cleared for
T/O)

NORMAL TAKEOFF

Throttle.....FULL (**2280-2400**

RPM)

Rotate.....

...**55 KIAS**

Climb.....**73**

KIAS (Vy)

SHORT FIELD TAKEOFF

Flaps.....

.....UP

Carb

Heat.....CO

LD

Brakes.....

.....APPLY

Throttle.....

.....FULL

Brakes.....R

RELEASE

Elevator.....SLIGHT TAIL

LOW

Climb....**59 KIAS (Vx)** until OBST Clr

SOFT FIELD TAKEOFF

Flaps.....

.....10°

Elevator Control.....TAIL

LOW

After Lift Off.....LEVEL

FLIGHT

-- Attain **Vx** or **Vy** as Req'd

Flaps.....RETRACT SLOW > **60**

KIAS

ENROUTE CLIMB (> 1000' AGL)

Airspeed.....**80 – 85**

KIAS



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Throttle.....FULL
 OPEN
 Mixture.....FULL RICH
 (Lean>3K)

CRUISE

Power....**2200-2700 RPM (55-75%)**
 Mixture.....
LEAN
 -- Power.....Lean to Peak
 RPM
 Fuel Selector.....LEFT/RIGHT
 A/R

Lights
 (External).....A/R
CRUISE ROT (%HP/RPM/TAS/GPH)
 4K: 75% = 2550 / 117kts / 8.5gph
 4K: 55% = 2200 / 96kts / 6.6gph
 6K: 75% = 2600 / 119kts / 8.6gph
 6K: 55% = 2300 / 101kts / 6.4gph

IN RANGE / DESCENT

KPWM ASOS: 120.025
KSFM AWOS: 119.05

ATIS.....
 CONFIRM
 Fuel.....ON/GOO
 D QTY
 Mixture.....
RICH
 Carb Heat.....ON IF < **2100**
RPM
 Descent.....1500 RPM
 (tech)
 Approach.....REVIEW/BRIEF/LOA
 D

Min
 Alt.....CONFIR
 M
 Engine
 Instruments.....MONITOR

APPROACH (APPROX 15 NM)

B19 CTAF: 123.0

Approach.....BRIEFED/ACTIVAT
 ED
 Confirm Freqs / In-bound Crs / Mins are
 set

Altimeters.....
 SET x 2
 Fuel
 Selector.....BOT
 H
 Taxi
 Light.....
 .ON

Flt / Nav
 Instruments.....SET
 Engine
 Instruments.....MONITOR
 Go-Around
 Proc.....REVIEW

BEFORE LANDING

Seat/Harness.....CHECK/LOCKE
 D
 Engine Instruments.....IN
 LIMITS
 Fuel
 Selector.....BOT
 H
 Mixture.....
RICH



C-172M CHECKLIST (OCT 2021) B19

Carb Heat.....ON < **2100**
RPM
 Landing
 Light.....ON

BALKED LANDING / GO AROUND

Throttle.....
FULL
 Attitude.....CLI
 MB
 Carb
 Heat.....COL
 D
 Flaps.....
20°
 Airspeed.....
55 KIAS
 Flaps.....10° UNTL OBST
 CLR
 Flaps.....RETRACT > **60**
KIAS

CROSSWIND ROT'S

30° = 50% / 45° = 75% / 60° = 100%

LANDING

NORMAL LANDING

Airspeed....**60 – 70 KIAS** (Flaps UP)
 Flaps.....A/R <
85 KIAS
 Airspeed...**55 – 65 KIAS** (Flaps FULL)
 Touchdown.....MAINS
 FIRST
 Landing Roll.....LOWER NOSE
 gently
 Braking.....MINIMUM
 REQ'D

SHORT FIELD LANDING

Airspeed.....**60 – 70 KIAS** (Flaps
 UP)
 Wing Flaps.....FULL < **85**
KIAS
 Airspeed.....**59 KIAS** until
 flare
 Power.....IDLE as OBST is
 cleared
 Touchdown.....MAINS
 FIRST
 Wing
 Flaps.....
 .UP
 Control Yoke.....FULL
 BACK
 Braking.....MAX (don't skid
 tires)

SOFT FIELD LANDING

Airspeed.....**60 – 70 KIAS** (Flaps UP)
 Wing Flaps.....FULL < **85**
KIAS
 Airspeed.....**60 KIAS** until
 flare
 Power.....As Red'd, control descent
 Control Yoke.....AFT (Hold nose off)
 Braking.....NONE /
 MINIMUM
 When Nose touch...YOKE FULL AFT
 Power.....AS REQ'D (keep
 rolling)

AFTER LANDING

B19 CTAF: 123.0

Carb
 Heat.....CO
 LD



C-172M CHECKLIST (OCT 2021) B19

Flaps.....
UP
 Strobes.....OFF (clearing the active)
 Landing
 Light.....OFF
 XPDR.....
ALT
 Flt Controls.....Turn Into/Dive Away

SHUTDOWN / SECURE AIRPLANE

Throttle.....100
 0 RPM
 Parking
 Brake.....A/R
 Avionics
 Master.....OFF
 Taxi and NAV
 Lights.....OFF
 Mixture.....IDLE
 CUT OFF
 Ignition.....
OFF
 Master
 Switch.....OFF
 When Prop Stops
 Key.....
 REMOVE
 Elevator Trim.....SET
 TAKEOFF
 Fuel Selector.....LEFT or
 RIGHT
 Tach
 Time.....RECOR
 D
 Hobbs.....
 RECORD
 Aircraft.....CHOCK AND
 SECURE

Post Flt
 Walkaround.....COMPLETE
 Control
 Lock.....INSTALL
 Pitot
 Cover.....INSTALL

FIRES

ENGINE FIRE DURING START

Cranking.....CON
 TINUE

IF ENGINE STARTS

Power...1700 RPM for few minutes
 Engine.....SHUTDOWN +
 INSPECT

IF ENGINE FAILS TO STARTS

Throttle.....FULL
 OPEN
 Mixture.....IDLE
 CUT OFF
 Cranking.....CON
 TINUE
 Fire
 Extinguisher.....OBTAIN
 Engine.....
 ...SECURE
 -- Master
 Switch.....OFF
 -- Ignition
 Switch.....OFF



C-172M CHECKLIST (OCT 2021) B19

-- Fuel
 Selector.....OFF
 Fire.....EXTI
 NGUISH

ENGINE FIRE – IN FLIGHT

Mixture.....IDLE CUT
 OFF
 Fuel
 Selector.....OFF
 Master Switch....OFF
 Air
 Vents.....CLOSE
 D
 Cabin
 Heat.....CLOSED
 Airspeed.....**1
 00 KIAS**
 -- Do not exceed **Vne (158 KIAS)**
 Radio.....MAYDAY on
121.5
 XPDR.....
**7700**
WARN: DO NOT RESTART ENGINE
 Forced
 Landing.....PERFORM

ELECTRICAL FIRE – IN FLIGHT

Master
 Switch.....OFF
 Avionics
 Master.....OFF

All Other
 Switches.....OFF
 -- **LEAVE IGNITION ON**
 Air Vents/Cabin
 Heat.....CLOSED
 Fire
 Extinguisher.....ACTIVATE
 Land.....AS SOON AS

POSSIBLE

WARNING

After using extinguisher, vent cabin

IF ELEC POWER ESSENTIAL

Master
 Switch.....ON
 Circuit Breakers...CHECK TO
 ISOLATE
 -- DO NOT RESET POPPED BREAKER
 Electrics....1 AT TIME, CHK BREAKER
 Air Vents.....OPEN w/FIRE
 OUT

CABIN FIRE

Master.....
OFF
 Vents / Cabin
 Heat.....CLOSED
 Extinguisher.....
ACTIVATE

WARNING

After using extinguisher, vent cabin
 Land.....AS SOON AS
POSSIBLE



C-172M CHECKLIST (OCT 2021) B19

WING FIRE

Lights/Strobes.....
OFF
 Pitot
 Heat.....
 OFF
 Side
 Slip.....PERFOR
 M
 Land.....AS SOON AS
POSSIBLE

ENGINE

ENGINE FAILURE – REJECT

Throttle.....
 ..IDLE
 Brakes.....
APPLY
 Flaps.....RE
 TRACT
 Mixture.....IDLE
 CUT OFF
 Ignition
 Switch.....OFF
 Master
 Switch.....OFF
 Takeoff ROT...70% Spd NLT 50%
 Rwy

ENGINE FAILURE - AFTER TAKEOFF

Airspeed.....**65 (Up) / 60**
(10-Full)
Engine Fail: Ltoff w/ RWY remain
 -- Airspeed..**65 (Up) / 60 (10-Full)**
 --
 Throttle.....
 .IDLE
 -- Land.....MAX
 BRAKING

Airborne: Insufficient Runway

-- Airspeed..**65 (Up) / 60 (10-Full)**
 -- Landing
 Area.....SELECT
 -- Mixture.....IDLE CUT
 OFF
 -- Fuel Shutoff
 Valve.....CLOSED
 -- Ignition
 Switch.....OFF
 --
 Flaps.....
 ..A/R
 --
 Master.....
 OFF
 -- Land.....MIN
 AIRSPEED
 -- Tech: 180 MIN ALT / Dir o Turn
 TOLD ROT...70% Spd NLT 50% Rwy



C-172M CHECKLIST (OCT 2021) B19

ENGINE FAIL / RESTART IN FLIGHT

Airspeed.....
65 KIAS
Best Place to
 Land.....CHOOSE
Carb
 Heat.....ON
 Fuel
 Selector.....BOT
 H
 Mixture.....
RICH
 Ignition Switch.....BOTH /
 START
 Primer.....IN and
 LOCKED

IF ENGINE DOES NOT START

Forced
 Landing.....PERFORM

PARTIAL POWER / RUN ROUGH

-- Carb Ice?.....CARB HEAT ON
 -- Spark Plug?.....MIXTURE
 LEAN
 -- Mag Malf?.....IGNITION L or R

ABNORMAL OIL PRESS / TEMP

RPM.....REDUCE MIN
 NECESSARY
 Precautionary Landing....PERFORM

POH NOTES

- Check other Engine instruments

- Low Press and Normal Temp
 -- Pressure Gauge Malfunction
 -- Relief Valve Malfunction
 -- Land as soon as **PRACTICAL**
 - Low Press and High Temp
 -- Loss of engine oil
 -- **Engine Fail possible imminent**
 -- Land as soon as **POSSIBLE**

DESCENT / LANDING

EMERGENCY DESCENT

Throttle.....
IDLE
 Yoke.....Bank
 30° - 45°
 Speed.....IN
 CREESE
 -- Do not exceed **Vne (158 KIAS)**
 Throttle.....(every 1,000 ft)
 CLEAR

FORCED LANDING – NO POWER

Airspeed.....**65 (Up) / 60**
(10-Full)
 Mixture.....IDLE
 CUT OFF
 Fuel
 Shutoff.....
 OFF
 Ignition
 Switch.....OFF
 Flaps.....
A/R



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Radio.....MAYDAY on
121.5
 XPDR.....
**7700**
FINAL APPROACH
 Airspeed.....
60 KIAS
 Flaps.....DOWN (Land assured)
 Master
 Switch.....OFF
 Doors.....U
 NLATCH
 Seat/Harness.....CHECK
 SECURE

PRECAUTION APPROACH / LAND

Airspeed.....
60 KIAS
 Flaps.....
20°
 Landing
 Field.....OVERFLY
 Avionics +
 Electrics.....OFF
 Flaps.....
30°
 Master
 Switch.....OFF
 Doors.....U
 NLATCH
 Seat/Harness.....CHECK
 SECURE
 Touchdown.....TAIL
 LOW
 Ignition
 Switch.....OFF

Brakes.....APPLY
 HEAVILY

LOSS OF BRAKE

Landing Spot.....LONG
 RUNWAY
NOTE
X-Wind from Inop brake side
 Touch Down.....MIN
 AIRSPEED
 When Stop.....SHUTDOWN ENGINE

NOTE

Good Brake (Drag) in the middle

FLAT MAIN TIRE

Approach.....NO
 RMAL
 Touch Down.....GOOD TIRE
 FIRST

NOTE

Flat Tire (Drag) in the middle

ELECTRICAL

NOTE

- Monitor Ammeter + Low Volt Light

EXCESSIVE RATE OF CHARGE

- > 2 needle with > 30 min of flight
 Alternator
 Switch.....OFF
 Alternator Circuit
 Breaker.....PULL
 Non Essential Elec
 Equip.....OFF
 Land.....AS SOON AS
PRACTICAL

INSUFFICIENT RATE OF CHARGE

- Ammeter shows discharge



C-172M CHECKLIST (OCT 2021) B19

- Low Voltage Light Illuminated
 Avionics
 Master.....OFF
 Alternator Circuit Breaker.....CHK
 IN
 Batt + Alt Master.....OFF, THEN
 ON

If Low Volt Light goes out

Avionics
 Master.....ON
If Low Volt Light stays illuminated
 Alternator.....
OFF
 Non-essential
 Elecs.....OFF
 Battery.....CON
 SERVE

-- Flaps and Land Light for landing

ELECTRICAL (CONT)

GARMIN 430

"RAIM POSITION WARNING"

NOTE:

System will flag and no longer provide GPS Nav guidance. Revert to VOR / ILS receiver or alternate means of navigation.

"RAIM NOT AVAILABLE"

NOTE:

Enroute/terminal/approach Phase:
 Either continue to use GPS or revert to alternate means of Nav. If continue to use GPS, position must be verified every 15 minutes using the 430's VOR/ILS receiver or other IFR approved Nav system.

Final Approach Segment:

GPS Nav will continue for up to 5 minutes with approach CDI sensitivity (.3nm). After 5 minutes, system will flag and no longer provide course guidance with approach sensitivity. Missed approach course guidance may still be available with 1nm CDI sensitivity by executing the missed

FLIGHT CONTROLS

LOSS OF ELEVATOR CONTROL

Horizontal
 Flight.....TRIM
 Airspeed.....
60 KIAS
 Flaps.....
20°

NOTE

Do not change Trim setting. Control glide with power only

IN LANDING FLARE

Trim.....FULL
 NOSE UP
 Throttle.....REDUCE
 SLOWLY

-- Horizontal attitude touchdown

WARNING

Nose down moment from power reduction is adverse factor and airplane may hit on the nose wheel
 Throttle.....IDLE AT
 TOUCHDOWN

SPINS

Throttle.....
IDLE



C-172M CHECKLIST (OCT 2021) B19

Ailerons.....NEU
 TRAL
 Rudder.....FULL
 OPPOSITE
 After rudder reaches full stop
 Elevator.....BRISKLY
 FORWARD
 Hold inputs until spin stops, then
 Rudder.....NEUTR
 ALIZE
 Dive.....RE
 COVER

INFLIGHT OVERSTRESS

Throttle.....RE
 DUCE
 Airspeed.....65 -
 75KIAS
 Flaps.....
UP
 Land.....AS SOON AS
 PRACTICAL

WEATHER

UNINTENTIONAL FLT INTO ICING

Pitot
 Heat.....
 ON
 Icing Area.....LEAVE
 ASAP
 Cabin
 Heat.....ON
 RPM.....IN
 CREASE

Carb Heat.....AS
 REQUIRED
 Mixture.....LEAN FOR MAX
 RPM
 Flaps.....LEAVE
 RETRACTED
 ATC.....
 ...ADVISE

LANDING

Slip.....A/R for FWD
 VISIBILITY
 Airspeed.....65 – 75
 KIAS
 Touchdown.....
 ...LEVEL

CAUTION

**Ice increases stall speed. Carry
 extra speed on final. Stall warning
 horn may not function.**

SEVERE TURBULENCE

Airspeed.....< 127
 KIAS
 <100 KIAS Personal Discomfort
 Attitude.....LEVEL
 FLIGHT

STATIC SOURCE BLOCKAGE

Alternate Static Source.....PULL ON
 Airspeed.....CALIBRATION
 TABLE
 -- POH Section 5

SULLY MANEUVER



C-172M CHECKLIST (OCT 2021) B19

DITCHING

Approach.....AS
 REQ'D
 -- Hi Wind/Hvy Sea: INTO WIND
 -- Lt Wind/Hvy Swell: PARALLEL
 Airspeed.....65 (Up) / 60
 (10-Full)
 Flaps.....
 20° - 30°
 Radio.....MAYDAY on
 121.5
 XPDR.....
7700
 Descent.....300 FT/MIN AT 55
 KIAS
 Doors.....U
 NLATCH
 Ignition
 Switch.....OFF
 Seat/Harness.....CHECK
 SECURE
 Touchdown.....LEVEL ATTITUDE
 -- @300 ft/min descent
 Face.....
 CUSHION
 Airplane.....EVA
 CUATE