

Cessna 172N VH-MUW Normal Checklist

PREFLIGHT

Cabin

Documents---Licence, Medical, POH, MR
Control Lock-----REMOVE
Magnetos-----OFF
Avionics Master-----OFF
Master-----ON
Fuel Quantity Indicators----- CHECK
Flaps-----DOWN
Stall Warning-----CHECK
Lights & Pitot Heat-----ON
Check Lights, Pitot Heat then-----OFF
Master-----OFF
Fuel Selector ---- CHECK EA. POSITION

Empennage

Baggage Door-----SECURE
Tail Tie-down-----REMOVE
Control Surfaces-----FREE, CLEAR

Right Wing

Flap----- CHECK
Aileron-----FREE, CLEAR
Wing Tie-down-----REMOVE
Main Wheel Tyre----- CHECK
Fuel Sump -----DRAIN & CHECK
Fuel Qty----- VISUAL CHECK
Fuel Filler Cap-----SECURE

Nose

Cowling Plugs-----REMOVE
Bird Nests -----CHECK & REMOVE
Engine Oil -----CHECK (4-6qt)
Fuel Strainer-----DRAIN & CHECK
Prop & Spinner -----CHECK
Carburettor Air Filter ----- CHECK
Nose Wheel & Strut----- CHECK
Static Source -----CHECK

Left Wing

Main Wheel Tyre----- CHECK
Fuel Sump ----- DRAIN & CHECK
Fuel Qty-----VISUAL CHECK
Fuel Filler Cap-----SECURE
Pitot Tube-----CHECK
Fuel Tank Vent-----CLEAR
Wing Tie down-----REMOVE

Aileron-----CHECK
Flap-----CHECK

BEFORE START

Pre-flight----- COMPLETE
Passenger Brief----- COMPLETE
Seats, Seat Belts----- SECURE
Fuel Selector-----BOTH
Avionics----- OFF
Parking Brakes -----ON
Circuit Breakers----- ALL IN

STARTING

Mixture-----RICH
Carburettor Heat -----COLD
Beacon -----ON
Master -----ON
Prime ----- AS REQUIRED
Throttle----- OPEN 5-10 mm
Propeller ----- CLEAR
Magnetos----- START
Oil Pressure-----CHECK
Avionics-----ON
Mixture----- LEAN 25mm
Flaps----- UP
Transponder -----STANDBY

TAXI & PRE-TAKEOFF

Parking Brakes-----OFF
Turn Instruments-----CHECK
Brakes-----TEST
Doors, Windows-----CLOSED, LOCKED
Flight Controls----- CHECK
Flight Instruments ----- CHECK
Fuel Selector ----- BOTH
Mixture----- RICH
Trim -----TAKEOFF
Rudder Trim -----TAKEOFF
Throttle ----- 1700 RPM
Magnetos----- CHECK (125/50)
Engine Instruments -----CHECK
Ammeter ----- CHECK
Suction ----- CHECK

Carburettor Heat ----CHECK RPM DROP
Idle----- CHECK
Throttle----- 1000 RPM
DG-----ALIGN WITH COMPASS
Radios-----SET
Departure-----REVIEW

ABORT PLAN READY

LINEUP

Time----- RECORD
Transponder ----- ALT
Lights -----ON, as req'd
DG -----CHECK RWY HEADING

TAKEOFF

Flaps----- UP
Throttle -----FULL
Rotate -----55 (Vr)
Climb Speed-----73 (Vy)

V Speeds

Vne160	Vno.....128
Vr.....55	Vs.....47
Vy.....73	Vso.....41
Vx.....60	Best Glide.....65
Vwindow160	Max Xwind.....15
Vfe:	Va:
10°110	1045 kg97
10° - 40°85	885 kg89
	730 kg80

CLIMB

Airspeed----- 70 - 85 KIAS
Throttle----- FULL
Mixture----- LEAN ABOVE 3000'
DG -----CHECK
Engine Instruments -----CHECK

CRUISE

Power-----2200-2700rpm (75% max)
Trim -----SET

Mixture-----LEAN
Landing Lights ----- OFF

DESCENT

Mixture-----ADJUST
Power-----As Req'd
Carburettor Heat -----As Req'd
Landing Light -----ON
BEFORE LANDING
Seats, Seat Belts, Harnesses-----SECURE
Fuel Selector-----BOTH
Mixture-----RICH
Carburettor Heat -----ON
FLAPS -----As req'd

BUMFISH

GO AROUND

Cram It ----- FULL THROTTLE
Climb It -----POSITIVE RATE CLIMB
Clean It-----FLAPS UP, in increments
Cool It----- Carburettor Heat OFF
Call It-----Announce Missed/go around

AFTER LANDING

Carburettor Heat -----COLD
Flaps----- UP
Mixture----- LEAN 25mm
Transponder -----STANDBY
Ldg Light -----OFF, As req'd

SECURING

Avionics Master----- OFF
Lights-----OFF
Beacon-----ON
Magnetos----- GROUND CHECK
Mixture-----IDLE CUTOFF
Magnetos----- OFF
Master ----- OFF
Control Lock ----- INSTALL
Maintenance Release-----COMPLETE
Hire Log Book ----- COMPLETE
Tie Downs-----FIT
Aircraft Cover -----FIT

Cessna 172N VH-MUW Emergency Checklist

ENGINE FAILURE AFTER TAKEOFF

Airspeed.....65
Mixture.....IDLE CUTOFF
Fuel Selector.....OFF
MagnetosOFF
FlapsAS DESIRED
Master.....OFF

ENGINE FAILURE DURING FLIGHT

Airspeed..... 65
Carburettor HeatON
Fuel Selector.....BOTH
Mixture.....RICH
Magnetos BOTH (or START if prop stopped)
Primer.....IN & LOCKED
Radio..... MAYDAY CALL

EMERGENCY LANDING, NO POWER

Airspeed..... 65
Mixture.....IDLE CUTOFF
Fuel Selector.....OFF
MagnetosOFF
FlapsAS DESIRED (40° at 60 kts)
Master.....OFF
Doors UNLATCH
Touchdown.....SLIGHTLY TAIL LOW
Brakes.....APPLY HEAVILY

PRECAUTIONARY LANDING W/ POWER

Flaps20°
Airspeed.....60
Selected FieldFly Over, Note Terrain
Avionics & ElectricalOFF
Flaps40°
Airspeed.....60
Master.....OFF
Doors UNLATCH
Touchdown.....SLIGHTLY TAIL LOW
MagnetosOFF
Brakes.....APPLY HEAVILY

DITCHING

Radio.....MAYDAY CALL
Squawk.....7700
Approach:
High Winds, Heavy SeasINTO WIND
Light Winds, Heavy SwellsPARALLEL
Flaps.....20°
Power.....300ft/min DESCENT @ 55kts
Doors.....UNLATCH
Touchdown..... LEVEL ATTITUDE
Face.....CUSHION
Airplane EVACUATE

FIRE DURING START

Cranking..... CONTINUE
If engine starts:
Power..... 1700 RPM
Engine.....SHUTDOWN

If engine fails to start:

Throttle FULL OPEN
MixtureIDLE CUTOFF
CrankingCONTINUE
Fire ExtinguisherOBTAIN
Engine.....SECURE
Master..... OFF
Magnetos..... OFF
Fuel Selector..... OFF
Fire ExtinguisherUSE

ENGINE FIRE IN FLIGHT

Mixture.....IDLE CUTOFF
Fuel Selector.....OFF
Master.....OFF
Cabin Heat & AirOFF
Airspeed 100 KIAS or more to Extinguish
Forced LandingEXECUTE

AMMETER SHOWS EXCESSIVE RATE OF CHARGE

(full scale deflection)
Alternator.....OFF
Nonessential ElectricalOFF
Flight TERMINATE

ELECTRICAL FIRE IN FLIGHT

Master.....OFF
Avionics Master.....OFF
All Other Switches.....OFF(except mags)
Vents, Cabin Air/HeatCLOSED
Fire ExtinguisherACTIVATE
If Fire is OutOPEN VENTS
If Electrical Required for Flight:
Master.....ON
Circuit Breakers..CHECK., DONT RESET
Radios.....OFF
Avionics Master.....ON
Radios/Electrical..... ON, One at a Time
Vents, Cabin Air/HeatON

CABIN FIRE

Master.....OFF
Vents, Cabin Air/HeatOFF
Fire ExtinguisherACTIVATE
If Fire Out..... OPEN VENTS
LAND..... ASAP

WING FIRE

Navigation Lights.....OFF
Strobes.....OFF
Pitot Heat.....OFF
Side SlipAWAY FROM FIRE
LAND..... ASAP

RADIO FAILURE

Microphone Buttons..... NOT STUCK
Comm Panel.....CORRECT RADIO
Radio.....ON, CHECK SQUELCH
Volume.....UP
Frequency..... CORRECT
Headset or Mic.....PLUGGED IN
Intercom ON, Volume, Squelch up
Circuit Breakers..... IN
Avionics MasterON
Master.....ON
Load Meter.....POSITIVE CHARGE
Transponder.....7600

ICING

Pitot Heat.....ON
Turn Back or Change Altitude
Cabin Heat.....ON
Defroster Outlet.....OPEN
Increase Engine Speed to Minimize Prop Ice
Watch for Signs of Carburettor Ice.

LOW VOLTAGE LIGHT DURING FLIGHT

(Ammeter Indicates Discharge)
Avionics Master OFF
Master.....OFF (both sides)
Master.....ON
Low-Voltage Light.....CHECK OFF
Avionics MasterON **If**
Low-voltage light illuminates again:
Alternator OFF
Nonessential Radio/Electrical..... OFF
Flight.....TERMINATE

AIRSPEDS FOR EMERGENCIES

Engine Failure after Takeoff:
Flaps UP.....65 KIAS
Flaps Down60 KIAS
Manoeuvring Speed:
1045kg.....97 KIAS
885kg.....89 KIAS
730kg.....80 KIAS
Maximum Glide 65 KIAS
Precautionary Flyover with Power:
20 deg Flaps60KIAS
Precautionary Landing with Power
. 40 deg Flaps60KIAS
Landing w/o Power:
Flaps Up.....65 KIAS
Flaps Down.....60 KIAS