

Cessna 172M N515ED

Preflight Checklist

INTERIOR

FLIGHT CIRCLE.....DISPATCHED
 AROW DOCUMENTS.....CHECKED
 FUEL DRAILED/QUANTITY.....CHECKED
 CONTROL LOCK.....OFF
 IGNITION SWITCH.....OFF
 ALTERNATE STATIC.....CHECKED
 AVIONICS.....OFF
 PFD/AHRS CIRCUIT BREAKERS.....PULLED
 MASTER.....ON
 FUEL GAUGES.....CHECKED
 FLAPS.....FULL
 LIGHTS & PITOT HEAT.....ON/CHECKED
 LIGHTS & PITOT HEAT.....OFF EXCEPT BEACON
 MASTER.....OFF

EMPENNAGE

BAGGAGE DOOR.....CLOSED/LOCKED
 ANTENNAS.....CHECKED
 HORIZONTAL STABILIZER/ELEVATOR.....CHECKED
 VERTICAL STABILIZER/RUDDER.....CHECKED
 ELEVATOR TRIM TAB.....CHECKED

RIGHT WING

MAIN GEAR.....CHECKED (29PSI)
 FLAP HINGES/PUSHROD.....CHECKED
 AILERON WEIGHTS/HINGES.....CHECKED
 WING TIP/LIGHTS.....CHECKED
 LEADING EDGE.....CHECKED
 CABIN AIR VENT INLETS.....CHECKED
 FUEL CAP.....SECURED

FORWARD FUSELAGE

OIL QUANTITY.....6-8 QTS
 FUEL STRAINER.....CHECKED
 ENGINE COWLING.....SECURE
 EXHAUST STACK.....CHECKED
 NOSE GEAR.....CHECKED (31PSI)
 PROPELLER/SPINNER.....CHECKED
 ALTERNATOR BELT.....CHECKED
 AIR INTAKE/FILTER.....CHECKED
 STATIC PORT.....CLEAR

LEFT WING

FUEL CAP.....SECURED
 CABIN AIR VENT INLETS.....CHECKED
 PITOT TUBE.....CHECKED
 FUEL VENT.....CHECKED
 STALL HORN INLET.....CHECKED
 LEADING EDGE.....CHECKED
 WING TIP/LIGHTS.....CHECKED
 AILERON WEIGHTS/HINGES.....CHECKED
 FLAP HINGES/PUSHROD.....CHECKED
 MAIN GEAR.....CHECKED(29PSI)

360° WALKAROUND

SECURE

POST FLIGHT INSPECTION.....COMPLETED
 TIE DOWNS.....AS NEEDED
 CONTROL LOCK.....AS NEEDED
 MASTER.....OFF

PHONE NUMBERS

Isaac Mosgrove.....503.930.3405
 Joan Johnson503.559.4593
 Salem Tower.....503.581.3571
 Salem Air Fuel.....503.364.4158
 Flight Service.....800.992.7433
 Portland FSDO.....503.615.3200

Loading Data	Weight (lbs)	ARM (in)	Moment (lbs-in)
Empty Weight	1477.92	40.12	59,296.37
Front Seats		*37* Range (34-46)	
Rear Seat		73	
Fuel 38gal/228lbs usable		48	
Cargo Area # 1 120 lbs max		*95* Range (95-108)	
Cargo Area # 2 40 lbs max		*123* Range (123-142)	
Total 2300 LBS MGTOW			

ICAO Equipment Coad: B,G,S
 ICAO Surveillance Code: C, U2

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Normal Checklist

BEFORE START

PASSENGER / CREW BRIEF.....COMPLETE
SEATS / SEATBELTS.....ON
FUEL SELECTOR.....BOTH
TRIM.....SET
FLAP SWITCH.....NEUTRAL
MIXTURE.....RICH (AS APPROPRIATE)
THROTTLE.....CRACKED (AS APPROPRIATE)
LIGHTS.....SET
CIRCUIT BREAKERS.....ALL IN
AVIONICS SWITCH.....OFF
PRIMER.....PRIMED/LOCKED
MASTER SWITCH.....ON
PROP AREA.....CLEAR

BEFORE TAXI

OIL PRESSURE.....CHECK
MIXTURE.....LEANED
FLAPS.....UP
AVIONICS.....ON
BRAKES.....CHECK
INSTRUMENT COCKPIT CHECK.....COMPLETE

BEFORE TAKEOFF/RUNUP

DOORS/WINDOWS.....CLOSED & LATCHED
SEATBELTS.....SECURED
CONTROLS.....FREE & CORRECT
PFD & MFD.....CHECKED
HDG & ALT BUGS.....SET
STBY INSTRUMENTS.....CHECKED
AVIONICS/RADIOS/TRANSPONDER.....SET
FUEL SELECTOR.....BOTH
FLAPS.....SET
TRIM.....SET
RUNUP

RPM.....1700
ENGINE GAUGES.....CHECKED
MIXTURE.....AS APPROPRIATE
CARB HEAT.....CHECKED
MAGNETOS.....CHECKED
RPM.....IDLE CHECK, 1000

DEPARTURE BRIEFING.....COMPLETED

Airspeeds:

Vr.....65 MPH
Vx.....74 MPH
Vy.....90 MPH
Best Glide.....80 MPH
Short Field Takeoff Flaps: 0°

CLIMB

FLAPS.....UP
MIXTURE.....AS APPROPRIATE
TRANSPONDER.....CODE/ALT
LIGHTS.....SET

CRUISE

POWER.....SET
TRIM.....SET
MIXTURE.....AS APPROPRIATE

DESCENT

WEATHER.....REVIEWED
ARRIVAL/APPROACH.....BRIEFED
COMS/NAVS.....SET
FUEL SELECTOR.....BOTH
MIXTURE.....AS APPROPRIATE
ALTIMETER.....SET
SEATS/SEATBELTS.....SECURE

AFTER LANDING

TRIM.....SET
FLAPS.....UP
MIXTURE.....LEANED
CARB HEAT.....OFF
LIGHTS.....SET
TRANSPONDER.....VFR/ALT

SHUTDOWN

RPM.....1000
AVIONICS.....OFF
MIXTURE.....IDLE CUT OFF
MAGNETOS.....OFF
MASTER.....OFF
KEY.....OFF/OUT

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Abnormal Checklist

ENGINE FIRE DURING START

CRANKING.....CONTINUE
-IF ENGINE STARTS-
POWER.....1700 RPM 2-3 MINUTES
ENGINE.....SECURE
-IF ENGINE FAILS TO START-
THROTTLE.....FULL
MIXTURE.....IDLE CUT-OFF
CRANKING.....CONTINUE 2-3 MINUTES
ENGINE.....SECURE

ENGINE TROUBLESHOOT

FUEL SELECTOR.....BOTH
MIXTURE.....AS APPROPRIATE
THROTTLE.....1/2 OPEN
CARB HEAT.....ON
PRIMER.....IN/LOCKED
MAGNETOS.....CYCLE (START)

ENGINE SECURE

MIXTURE.....IDLE CUT-OFF
THROTTLE.....CLOSED
CARB HEAT.....OFF
MAGNETOES.....OFF
TRANSPONDER.....7700

EMERGENCY LANDING W/O POWER

AIRPSEED.....BEST GLIDE
RADIO CALLS/XPDR.....AS APPROPRIATE
SEATS/SEATBELTS.....SECURE
FLAPS.....AS NEEDED
DOORS.....UNLATCH
-PRIOR TO TOUCHDOWN-
MASTER.....OFF

ENGINE FIRE IN FLIGHT

MIXTURE.....IDEL CUT-OFF
THROTTLE.....CLOSED
MAGNETOES.....OFF
EMERGENCY DESCENT.....EXECUTE

WING FIRE

EXTERIOR LIGHTS.....OFF
PITOT HEAT.....OFF
SIDESLIP.....ESTABLISH

ELECTRICAL TROUBLESHOOT

CIRCUIT BREAKER.....CHECK
-IF POPPED, RESET. IF IT POPS AGAIN, DO NOT RESET-

ELECTRICAL/CABIN FIRE

MASTER.....OFF
CABIN WINDOWS.....OPEN
FIRE EXTINGUISHER.....AS NEEDED
EMERGENCY DESCENT.....AS NEEDED

ALT INOP ANNUNCIATOR

ALTERNATOR SWITCH/BREAKER.....CHECK
-IF ALTERNATOR FAILED-
ELECTRICAL LOAD.....REDUCE
LAND AIRPLANE.....AS NEEDED

LOW OIL PRESSURE

POWER.....REDUCE
NEAREST AIRPORT.....LAND
OIL TEMPERATURE.....CHECK
-IF OIL PRESSURE IS LOW AND OIL TEMPERATURE IS HIGH PREPARE FOR ENGINE FAILURE AND LAND AT THE NEAREST AIRPORT-

HIGH OIL TEMPERATURE

POWER.....REDUCE
AIRSPEED.....INCREASE
MIXTURE.....ENRICHEN(.AS APPROPRIATE)
OIL PRESSURE.....CHECK
-IF OIL PRESSURE IS LOW LAND AT NEAREST AIRPORT-

RADIO TROUBLESHOOT

HEADSET VOLUME.....CHECK
HEADSET JACK.....CHECK
AUDIO PANEL/INTERCOM.....CHECK
RADIO VOULME.....CHECK
PUSH TO TALK.....CHECK

ATC LIGHT GUN SIGNALS FOR AIRCRAFT

COLOR & TYPE	GROUND	AIR
STEADY GREEN 	Cleared for takeoff	Cleared to land
FLASHING GREEN 	Cleared for taxi	Return for landing (to be followed by steady green)
STEADY RED 	STOP!	Give way to other aircraft and continue circling
FLASHING RED 	Taxi clear of runway in use	Airport unsafe, do not land
FLASHING WHITE 	Return to starting point on airport	N/A
ALTERNATING RED/GREEN 	Exercise extreme caution	