

POH/AFM takes priority over this checklist.

### **CESSNA 172M MPH** G5S

# **NORMAL OPERATIONS**

## **EMERGENCY PROCEDURES** (REVERSE)

Updated October 8th, 2022

# **RUNWAY ENTRY**

Time for Lights, Camera, Action, Traffic

Lights	LANDING & STRO	BES ON
Transponder	VERIFY CC	DE/ALT
Mixture		RICH
Carb Heat		COLD
Traffic	. VERIFY RWY/APCH	CLEAR
Runway Number	C0	ONFIRM
Heading/Compa	ss MATCHI	ES RWY

### **NORMAL TAKEOFF**

Flaps	UP
Flaps Throttle	FULL
Engine Instruments	"GREEN"
Engine RPM AT LE	EAST "2200 RPM"
Airspeed	"ALIVE"
Rotate6	S5 MPH "ROTATE"
Rotate6	90 MPH

### SHORT FIELD TAKEOFF

Flaps	UP
Brakes	HOLD
Throttle	FULL
Engine Instrum	ents "GREEN"
Engine RPM	AT LEAST "2200 RPM"
Brakes	RELEASE
Airspeed	"ALIVE
Rotate	60 MPH "ROTATE"
Pitch	15°
Climb	72 MPH
Obstacle	CLEARED
Flaps	UP
Climb	90 MPH

### SOFT FIELD TAKEOFF

Flaps	10°
Brakes No	ONE
Control Wheel FULL	AF٦
ThrottleSLOWLY ADVANCE F	ULL
Engine Instruments "GRE	EN'
Engine RPM AT LEAST "2200 R	PM'
Airspeed"AL	IVE'
Main GearLIFT	OFF
Pitch NOSE O	VEF
Ground Effect MAINTAIN TO 70 N	ИPН
Flaps	UF
Climb90 N	ИPH

### AFTER TAKEOFF (400' AGL)

Airspeed	90 MPH
Flaps	UP
Engine Instruments	GREEN
Landing/Taxi Light	AS REQ'D

### CRUISE

Throttle	2300-2400 RPM
Trim	AS REQUIRED
Engine Instruments	CHECK
Mixture	LEAN AS REQUIRED
EGT 50°F/30°	C Rich of Peak

#### PRE-MANEUVER CHECKS

	~
Clear the area	CHECK
HeadingE	STABLISHED & BUGGED
AltitudeE	STABLISHED & BUGGED
Place to land	CHECK
Set Power & Config	CHECK
<ul> <li>Fuel Selector</li> </ul>	BOTH
<ul> <li>Mixture</li> </ul>	RICH
<ul> <li>Lights</li> </ul>	ON
<ul> <li>Engine Instrume</li> </ul>	entsGREEN

# **DESCENT / APPROACH**

ATIS/AWOS	CHECK
Altimeters	
Top G5, S	tandby
Clearance	OBTAIN
Radios/GPS	TUNE/IDENT
Approach Briefing	COMPLETE
Fuel Selector	BOTH
Lights	AS REQUIRED
Mixture	SLIGHTLY ENRICH

# PRE-LANDING

Fuel Selector	BOTH
Mixture	RICH
Carb Heat	ON BELOW 2000 RPM
Lights	AS REQUIRED
Flaps	AS REQUIRED
Seatbelts	FASTENED

### **NORMAL LANDING**

Flaps	30°
Airspeed	75 MPH
Touch Down	MAIN WHEELS FIRST
Brakes	. MINIMUM REQUIRED

# SHORT FIELD LANDING

Flaps	FULL
Airspeed	70 MPH
Touch Down	MAIN WHEELS FIRST
Flaps	UP
Brakes	MAXIMUM
Control Wheel	FULL AFT

### **SOFT FIELD LANDING**

Flaps	FULL 30°
Airspeed	75 MPH
Carb Heat	COLD ON SHORT FINAL
Touch Down	NOSE HIGH WITH PWR
Brakes	NONE
Control Wheel	FULL AFT

# **AFTER LANDING**

Flaps	UP
Mixture	LEAN 1"
Carb Heat	COLD
Elevator Trim	SET FOR TAKEOFF
Lights	LANDING / STROBES OFF
Radios	CONTACT GND / CALL CLR
Flight Plan	CLOSE IF REQ'D

# SHUTDOWN / SECURE

Brakes	AS REQUIRED
Avionics Master	OFF
Mixture	IDLE/CUTOFF
Wait for engine	e to shut off
Magnetos	OFF / REMOVE KEY
Master Switch	
Fuel Selector	LEFT OR RIGHT
Control Wheel Lock	INSTALLED
Aircraft	TIE DOWN
Aircraft Log	COMPLETE
Cowl Plugs/Covers	INSTALLED
Windshield	CLEAN AS REQ'D
Chocks	AS REQ'D

SPEEDS			
V <sub>R</sub>		65 MP	Η
V <sub>X</sub>		72 MP	Ή
V <sub>Y</sub>		90 MP	Η
V <sub>FF</sub>		100 MP	Ή
V <sub>A</sub> (2300 lb)		122 MP	Η
V <sub>S</sub>		57 MP	Ή
V <sub>SO</sub>			Ή
Pattern			
Abeam Numbers			
Base			
Final		75 MP	Η
V <sub>G</sub>		75 MP	Η
Glide distance	1.5 NM	/ 1000 F	Τ.

# **FREQUENCIES**

Potomac Approach Potomac (SFRA West) Potomoc	
KHEF (Manassas) ATIS Tower Ground	133.1
KHWY (Warrenton) AWOS CTAF	
KCJR (Culpeper) AWOS CTAF	

## CSN (Casanova VORTAC) CSN ...... 116.30

ENGINE FIRE DURING START Cranking CONTINUE  IFENGINE Starts Throttle 1700 RPM FOR 20 SEC Engine SHUTDOWN AND INSPECT  IFENGINE Falls To Start Throttle FULL OPEN Mixture IDLE CUTOFF Cranking CONTINUE Fuel Selector Valve OFF Fire Extinguisher OBTAIN Engine MASTER AND IGNITION OFF Aircraft Extract Extrac	and Reset. If it use standby  ROUND)  TEADY GREEN SHING GREEN STEADY RED LASHING WHITE tion AND GREEN LIGHT)  TEADY GREEN SHING GREEN	
Fuel Selector Valve OFF Cabin Heat and Air OFF Airspeed INCREASE / 120+ MPH Forced Landing EXECUTE Cabin FIRE  Master Switch OFF Cabin Heat and Air OFF Airspeed INCREASE / 120+ MPH Forced Landing EXECUTE Cabin FIRE  Master Switch OFF Air Vents and Windows CLOSED Fire Extinguisher OBTAIN Engine MASTER AND IGNITION OFF Air Vents and Windows CLOSED Fire Extinguisher ACTIVATE Cabin VENTILATE Aircraft EVACUATE Fire EXTINGUISH Damage INSPECT  ENGINE FAILURE PRIOR TO TAKEOFF  Throttle IDLE Brakes APPLY  Fuel Selector Valve OFF Airspeed INCREASE / 120+ MPH Forced Landing EXECUTE Cabin FIRE  Master Switch OFF Airspeed Selector Valve OFF Airspeed Master Switch OFF Air Vents and Windows CLOSED Active Taxing Instruments.  Cleared to Taxin Master Stop OFF Cleared to Taxin Master Switch OFF Airsp	COUND)  EADY GREEN SHING GREEN STEADY RED  LASHING WHITE tion AND GREEN  LIGHT)  TEADY GREEN SHING GREEN  SHING GREEN  SHING GREEN  SHING GREEN  SHING GREEN  SHING GREEN  SHING GREEN	
Throttle SHUTDOWN AND INSPECT  If Engine Fails To Start  Throttle FULL OPEN Mixture IDLE CUTOFF Cranking CONTINUE Fire Extinguisher OBTAIN Engine MASTER AND IGNITION OFF Aircraft EVACUATE Fire EXTINGUISH Damage INSPECT  INSPECT  INCREASE / 120+ MPH Forced Landing EXECUTE Forced Landing EXECUTE Cleared for Takeoff Stop Taxi clear of runway FL General Warning, Exercise Caut AS SOON AS POSSIBLE Fire EXTINGUISH Damage INSPECT  INSPECT  Master Switch OFF Cabin Heat and Air OFF Airspeed INCREASE / 120+ MPH Forced Landing EXECUTE Cleared for Takeoff Stop Taxi clear of runway FL General Warning, Exercise Caut AS SOON AS POSSIBLE INSPECT  WING FIRE  WING FIRE  Nav Lights OFF Cleared to Taxi ACTIVATE Cabin Stop Taxi clear of runway FL General Warning, Exercise Caut AS SOON AS POSSIBLE INSPECT  WING FIRE  LIGHT SIGNALS (FL Cleared to Land ST Return to Land ST Return to Land FLAS Stop Taxi clear of runway FL General Warning, Exercise Caut ACTIVATE Cabin AS SOON AS POSSIBLE Strobe Lights OFF Strobe Lights And land as soon as possible. Only use flaps as General Warning, Exercise Caut And Instruments.	ROUND)  EADY GREEN SHING GREEN STEADY RED  LASHING WHITE tion AND GREEN  LIGHT)  EADY GREEN SHING GREEN  SHING GREEN  SHING GREEN  SHING GREEN  STEADY GREEN  SHING GREEN  LASHING RED	
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Damage	EADY GREEN SHING GREEN STEADY RED LASHING RED	
Nav Lights	EADY GREEN SHING GREEN STEADY RED LASHING RED	
Pitot Heat	SHING GREEN .STEADY RED LASHING RED	
TAKEOFF Strobe Lights	STEADY RED LASHING RED	
Throttle	LASHING RED	
Brakes APPLY and land as soon as possible. Only use flaps as General Warning, Exercise Caut		
Brakes	tion	
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	) AND GREEN	
Mixture	CE	
Ignition Switch	<b>U</b> S	
Radio Call		
Master Switch	w 2000RPM	
ENGINE FAILURE IMMEDIATELY Pitot Heat	<b>FULL POWER</b>	
AFTER TAKEOFF  All Lights	00-2400 RPM	
Doccont	2100 RPM	
Precision Approach	1800 RPM	
Airspeed Flaps Down	1500 RPM	
Mixture	2100 RPM	
Fuel Selector	1500 RPM	
Ignition Switch OFF Master (ALT Only)		
AC DECLUDED Alternator Circuit Breaker CHECK IN Yellow highlighted items are imm		
Radio Call	i to memory.	
Master Switch OFF Ammeter CHECK		
Doors	JDE	
Ammeter CHECK CHARGING (+)	Approximate	
ENGINE FAILURE DURING If Amp Discharge Remains Groundspeed	Pivotal	
`	Altitude	
A		
3 turns nose-up trim, 75 mph Avionics Master	670	
B. BEST PLACE TO LAND Pitot Heat OFF 91 105	735	
All Lights	810	
CHECKLIST Comm I and Nav I	885	
Fuel Selector	960	
MIXTURE RICH RICH RICH AND ADDRESS AND ADD	1050	
1110tto	1130	
Carb Heat	1130	
PrimerIN AND LOCKED Fire Extinguisher		
Avionics Master OFF		
DECLARE All Other SwitchesOFF		
Mayday VENTILATE		
Squawk		
PREPARE TO EXIT Circuit Breakers CHECK		
Fuel SelectorOFF Avionics MasterON		
Mixture OFF Electrical EquipON ONE AT A TIME		
MagsOFF		
Master SwitchOFF WHEN ABLE		
Doors		
Passenger BriefCOMPLETE		



POH/AFM takes priority over this checklist.

## **CESSNA 172M MPH** G5S

# PREFLIGHT CHECKLIST

Updated October 8th, 2022

COCKPIT S	AFETY CHECK
Magnetos	OFF, KEY OUT
Mixture	IDLE CUTOFF
Throttle	CLOSED

# PREFLIGHT PREPARATION Weather ..... CHECK Inspections/ADs/Squawks ...... CHECK Fuel Quantity ......CHECK / CALL

### Master MUST Be Off During Fueling

Aircraft CoverCowl Plugs	REMOVE
Cowl Plugs	REMOVE
Pitot Tube CoverChocks	REMOVE
Chocks	REMOVE
Engine PreheatBELOW	0 °C/32 °F
Wings CHECK FOR	ICE/FROST

CABI	
Keys	PLACE ON DASH
Documents	
Supplements	CHECK
Placards	
Airworthiness Cert	
Radio Station Lic	
Registration	
P.O.H/A.F.M	
W&B Info	
Hobbs Meter	
Fire Extinguisher	
Control Wheel Lock	
Ignition Switch	OFF
Mixture	
Throttle	
Carburetor heat	
Avionics Master Switch	
Master Switch	
Top G5	
Fuel Quantity	
Alternate Static Source	
Fuel Selector	
Elevator Trim	
Flaps	
Pitot Heat	
Exterior Lights	
Master Switch	OFF

LEFT WING		
Door Pins	INSPECT	
Cabin Vents and Inlets	INSPECT	
Leading Edge	INSPECT	
Wing Tie Down		
Main Gear/Tire/Brakes	INSPECT	
Pitot TubeCHECK \	JNBLOCKED	
Stall Horn CHECK \	JNBLOCKED	
Fuel Vent CHECK I	JNBLOCKED	
Wing Tip/Nav Lights	INSPECT	
Left Aileron		
Hinges (x3) BO	LTS SECURE	
Weights		
Flaps	INSPECT	
Rod	INSPECT	

EMPENNAGE	
Baggage Door	. LOCKED
Skin and Rivets	. INSPECT
Vertical Stabilizer	INSPECT
Left Horizontal Stabilizer	.INSPECT
Left Elevator	INSPECT
Weight	SECURE
Hinges	SECURE
Cables	SECURE
Rudder	INSPECT
Hinges	SECURE
Cables	SECURE
Tail Tie Down	. REMOVE
Right Elevator	.INSPECT
Cables	SECURE
Trim Tab	.INSPECT
Hinges	SECURE
Weight	SECURE
Right Horizontal Stabilizer	. INSPECT
Antennas	
Underside	INSPECT

RIGHT WI	NG
Door Pins	INSPECT
Cabin Vents and Inlets	INSPECT
Leading Edge	INSPECT
Wing Tie Down	REMOVE
Main Gear/Tire/Brakes	INSPECT
Wing Tip/Nav Lights	INSPECT
Right Aileron	INSPECT
Hinges (x3)	
Weights	INSPECT
Flaps	INSPECT
Rod	INSPECT

NOSE AND COWLING	
Windshield	CLEAN
Oil Level	CHECK
Cold: ≥ 6 Qts, Warm: ≥ 5 1/2 Qts	S
$\leq$ 10 hrs to mx: $\geq$ 5 Qts	
Do Not Over Tighten Oil Cap	
Oil Access Door	SECURE
Engine Cowling	SECURE
No Consecutive Fasteners Missin	g
Prop/SpinnerII	NSPECT
No Cracks, No Screws Missing	
Cowling Inlets	CHECK
Alternator BeltCHECK T	<b>ENSION</b>
Air Filter	CHECK
Exhaust CHECK FOR (	CRACKS
Nose Gear/Tire/StrutII	NSPECT
Static PortCHECK UNBL	

FINAL CHECK		
Fuel Sumps	DRAIN	
Left Wing (1)	DRAIN	
Right Wing (1)	DRAIN	
	PULL & DRAIN	
Fuel Quantity	VISUAL CHECK	
Fuel Caps	SECURE	
Last 360° Walk Around	I COMPLETE	
Chocks	CONFIRM REMOVED	
Tie Downs	CONFIRM REMOVED	
Cowl Plugs	CONFIRM REMOVED	
Pitot Cover	CONFIRM REMOVED	
Preflight	COMPLETE	

# PERSONAL CHECKLIST

I ENGOINTE OFFICIA	L.O.
PAVE to perceive hazards	
<b>P</b> ilot	CHECK
<ul> <li>Experience/recency</li> </ul>	CHECK
Physical condition	SEE IMSAFE
Aircraft	
Fuel reserves	CHECK
Performance	
Equipment	CHECK
EnVironment	CHECK
<ul> <li>Weather</li> </ul>	CHECK
External Pressures	CHECK
IMSAFE to check pilot phys. co	ndition
Injury	CHECK
Medication	CHECK
<b>S</b> tress	CHECK
Alcohol	CHECK
Fatigue	CHECK
Emotion	CHECK

PASSENGER BRIEF	TAXI	RUNWAY ENTRY
	Taxi AreaCLEAR	Time for Lights, Camera, Action, Traffic
Fastened during taxi, takeoff, landing.	Brakes CHECK	Timer START
Recommended always.	Check for dip in Attitude Indicator	LightsLANDING & STROBES ON
A – Air ventsUSAGE	ControlsPOSITION FOR WIND	TransponderVERIFY CODE/ALT
Sick? Loosen clothing, use air, look at point on	Flight Instruments CHECK IN TURNS	Mixture RICH
horizon. Location of sick sacks.		Carb HeatCOLD
<b>F</b> – Fire extinguisherUSAGE	ENGINE RUNUP	TrafficVERIFY RWY/APCH CLEAR
P – Pull pin	AircraftPOSITION INTO WIND	Runway NumberCONFIRM
A – Aim at base of fire	Parking BrakeSET	Heading/Compass MATCHES RWY
S – Squeeze	Seats and Seat BeltsSECURE	
S – Sweep	Cabin DoorsCLOSED AND LOCKED	NORMAL TAKEOFF
<b>E</b> – ExitsLOCATION/USAGE	Flight Controls FREE & CORRECT	
T - Traffic EXPLAIN	Flight InstrumentsCHECK	Throttle FULL
Clock Position / Who's looking	Standby Flight Instruments CHECK	
Y – Yak (Sterile Cockpit)	Fuel QuantityCHECK	
No extraneous conversation under cruise or	Fuel Selector Valve RECHECK BOTH	
10,000' MSL (whichever is lower)	Elevator Trim SET FOR TAKEOFF	
<b>Y</b> – Yoke		
3 way positive exchange of flight controls.	Throttle	Climb90 MPH
Stay clear of active flight controls.	Magnetos	SHORT FIELD TAKEOFF
Y – Any questions?	Drop less than 150 and 50 between mags	
DEFORE OTABLE	Carb Heat	Flaps UP
BEFORE START	Engine InstrumentsGREEN	Brakes HOLD
PreflightCOMPLETE	Ammeter ZERO OR POSITIVE	Throttle FULL
Passenger Briefing COMPLETE	Throttle CHECK IDLE	Engine Instruments "GREEN"
Seats and BeltsADJUSTED/LOCKED	Throttle800 RPM	Engine RPM AT LEAST "2200 RPM"
Fuel Selector ValveBOTH	Throttle Friction LockADJUST	BrakesRELEASE
Avionics Master Switch OFF	Radios SET	Airspeed"ALIVE"
Brakes TEST AND SET	GPS Flight PlanVERIFY	Rotate60 MPH "ROTATE"
Test both sides and look for drips.	2nd Radio 121.5	Pitch 15°
Circuit Breakers CHECK IN	XPDRVERIFY CODE/ALT	Climb 72 MPH
BeaconON	CDI Softkey SELECT NAV SOURCE	ObstacleCLEARED
Nav LightsON AT NIGHT/IFR		Flaps UP
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Cabin WindowsCLOSED & LOCKED	Climb90 MPH
ENGINE START	Brakes	CIII ID
Mixture RICH	Didico	SOFT FIELD TAKEOFF
Carb HeatCOLD	TAKEOFF BRIEF	Flaps 10°
	Conditions	Brakes NONE
Prime Engine for Cold Start or as req'd	Weather (Wind, Ceilings, Etc.)	Control Wheel FULL AFT
Throttle / PrimerPRIME	Hazards	Throttle SLOWLY ADVANCE FULL
Try Throttle First, Then Use Primer		
Primer IN & LOCKED	Weather, Terrain, Wildlife, Traffic, etc.	Engine Instruments" "GREEN"
Master SwitchON	Runway	Engine RPM AT LEAST "2200 RPM"
Throttle 1/4"	Number (L/R), Length	Airspeed"ALIVE"
Prop AreaCLEAR	Return/Emergency Procedures	Main GearLIFT OFF
Ignition Switch ENGAGE	Before Rotation	PitchNOSE OVER
Do NOT Crank for > 10 secs. Allow 20 secs	After Rotation w/ Sufficient Rwy	Ground Effect MAINTAIN TO 70 MPH
between start attempts!	• Below 1000' AGL	Flaps UP
	A h a v a 1000! A C l	Climb90 MPH
Throttle800 RPM	<ul><li>Above 1000' AGL</li></ul>	
·	Establish PIC in emergency	
Throttle800 RPM	<ul> <li>Establish PIC in emergency</li> </ul>	
Throttle	<ul> <li>Establish PIC in emergency</li> </ul>	
Throttle800 RPM Oil Pres ABOVE RED LINE (30 SEC)	• Establish PIC in emergency Takeoff (Brief)	
Throttle	<ul><li>Establish PIC in emergency</li><li>Takeoff (Brief)</li><li>Normal, Short, Soft?</li></ul>	
Throttle	<ul><li>Establish PIC in emergency</li><li>Takeoff (Brief)</li><li>Normal, Short, Soft?</li><li>From Runway</li></ul>	
Throttle	<ul> <li>Establish PIC in emergency</li> <li>Takeoff (Brief)</li> <li>Normal, Short, Soft?</li> <li>From Runway</li> <li>Wind speed and direction</li> </ul>	
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Throttle         800 RPM           Oil Pres         ABOVE RED LINE (30 SEC)           Mixture         LEAN 1"           AFTER START           Flaps         UP           Avionics Master Switch         ON           GPS Database         CHECK DATES           Radios         TUNE, GET ATIS/AWOS           Altimeters         SET           Top G5, Standby           Heading Indicator         BUG WIND           Clearance         OBTAIN           Transponder         SET/ALT           G5 Alt Sel         SET	<ul> <li>Establish PIC in emergency</li> <li>Takeoff (Brief)</li> <li>Normal, Short, Soft?</li> <li>From Runway</li> <li>Wind speed and direction</li> <li>Speeds: rotate, initial/enroute climb</li> </ul>	