



Mooney M20J Annual Checkout

March 2005

This checkout worksheet is required to be completed prior to the start of the ground portion of the EHFC Annual Checkout with an EHFC instructor. After satisfactory completion of this worksheet and the required flight time with an EHFC instructor, you will be entitled to fly EHFC's M20J under **day VFR**. You may find that a M20J Pilot Information Manual (PIM), EHFC Rules of Operation, current Northeast Airport/Facility Directory and a current FAR/AIM will help you complete this worksheet.

Name: _____ Date: _____

CFI: _____

Aircraft

V-Speeds:

V_X: _____

V_y: _____

V_{FE}: _____

V_{SO}: _____

V_S: _____

V_{NE}: _____

V_{NO}: _____

Best Glide: _____

V_A: _____

V_{LO (Ext)}: _____

V_{LO (Ret)}: _____

V_{LE}: _____

Is V_A a fixed speed, or does it change? Explain. _____

Can we lower the flaps above V_{FE}? Explain. _____

Why are there two different speeds for V_{LO}? _____

Aircraft Systems:

What grade of fuel can we put in the M20J? What color(s) are associated with the fuel?

How much fuel does EHFC's M20J hold? How much is usable? How much is unusable?

How many fuel sumps/fuel drains are on the M20J? Where are they located? _____

How much does a gallon of 100LL weight? _____

What type of electrical system does the M20J have? _____

If you have an electrical failure, what will be affected? Will your engine continue to operate? _____

How do you extend the landing gear manual? How will you know when the gear is safely down and locked after a manual gear extension? _____

What type of oil do we put in EHFC aircraft? What is the minimum and maximum oil for EHFC's M20J? _____

What does the hydraulic system operate on the M20J? _____

What procedure is used for an electrical overvoltage indication in the M20J? _____

Can we get carburetor icing in this aircraft? Explain. _____

How does the prop governor work? What does the governor control? What will happen to the blade angle if you lose engine power? _____

Performance:

Explain endurance. What is the endurance and approx. GPH for our M20J with full fuel at 65% power on a standard day at 6500 feet MSL? _____

What are the different leaning procedures and how are they achieved? _____

Given the following criteria for the M20J:

Aircraft Weight:	1756 lbs
Arm:	43.8
Moment:	76933
Fuel	50 gal
Front Passengers	400 lbs
Rear Passenger	200 lbs
Rear Cargo	50 lbs

What is the aircraft's ramp weight? _____

What is the aircraft's take off weight?

What is the aircraft's CG at take-off? _____

Where can we find out cruise power setting? What is your MP and RPM setting at 65% at 4500 feet? _____

You just completed a two hour flight, at 65% power, standard day conditions and best economy. What is your landing weight and CG? _____

What are you take-off and landing distances? _____

General Aviation Knowledge and EHFC Policies:

What are the requirements to remain current as a pilot according to the FAA? EHFC?

What are the requirements to carry passengers for a day VFR flight according to the FAA? Does EHFC have policies regarding carriage of passengers? _____

What is the WINGS Program? What does it count towards? Can the WINGS Program requirements to fulfilled at EHFC? _____

According to EHFC's Rules of Operation, when is a night checkout required? Sunset at KITH is at 1830 Local Time. What is the latest you can return without a night checkout?

What type of airspace is KITH? _____

What are the basic FAA VFR weather minimums for KITH? What are EHFC's weather minimums for a VFR flight departing KITH? _____

What is Special VFR (SVFR)? What are the requirements for SVFR? What are the EHFC rules regarding SVFR? _____

List the following frequencies used at KITH and the agency name:

	<u>Frequency</u>	<u>Agency Name</u>
Ground	_____	_____
Tower	_____	_____

App/Dep	_____	_____
FSS	_____	_____
Emergency	_____	N/A
VOR	_____	N/A

Your sister-in-law's, third cousin, twice removed, is a CFI in Rochester. You want a BFR from her in an EHFC aircraft. Can you do this? _____

A co-worker of yours has a private grass runway, and he wants you to fly there so you can see it. Can you land an EHFC aircraft on that grass strip? _____

When at KITH, when do we fuel EHFC aircraft? What is the minimum amount of fuel you can take off with according to EHFC Rules of Operation? _____

You took a trip to KISP and want to purchase fuel before returning back to KITH. What is EHFC's policy on purchasing fuel outside of KITH? _____

How are EHFC aircraft dispatched and checked-in. What items are found on the dispatch sheet? _____

You have an inoperative landing light, can we still go fly on a day VFR flight? Explain. If you do have an inoperative item on your aircraft, what must be done before you can legally go flying? _____

What is LAHSO? Can you accept a LAHSO instruction? Identify an airport that could have LAHSO operations in affect. _____

How often is a checkout required at EHFC? Does an M20J checkout at EHFC count as an automatic checkout in a C-152 or C-172? _____

Where is the Airquest hanger located? _____

A student pilot wants to go on a solo flight to the north practice area. There is no wind and a clear, blue sky. He asks if you can give him the key to his airplane. Can you do this? Explain. _____

What is the tail numbers of EHFC's M20J? _____

What is an ADIZ? Where are they found? What are the procedures for flights within the ADIZ? _____

What is a TFR? How big are TFRs? Can TFRs be moving? _____

According to EHFC Rules of Operation, when must a VFR Flight Plan be filed? _____

What is the demonstrated cross wind component of the M20J? What is your own personal maximum cross wind? _____

Using the following METAR and TAF:

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KITH 202356Z 33006KT 1/8SM FG VV001 01/01 A2995
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KITH 210010Z 210024 32004KT 1SM BR OVC006  
TEMPO 0004 1/4SM -SHRASN OVC001  
FM0500 32004KT 1SM -SHSN OVC008  
TEMPO 0509 3/4SM -SHSN BR OVC002  
FM1500 32007KT P6SM OVC015  
FM2000 32007KT P6SM OVC030
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KMSP 202353Z 08009KT 10SM FEW150 SCT200 03/M07 A3  
RMK AO2 SLP229 4/002 T00281067 10033 20011 56006
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KMSP 202320Z 210024 08005KT P6SM SCT100 BKN200  
FM0400 08007KT P6SM SCT090 BKN250  
TEMPO 0408 BKN090  
FM1400 08009KT P6SM SCT040 BKN100
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What is the definition of a ceiling? What is the ceiling at KITH? KMSP? _____

What are the winds at KITH? Is wind direction relative to true north or magnetic north? _____

When are TAFs issued? How good are they good for? When was the KMSP TAF issued? _____

What does -SHRASN mean in the KITH TAF? _____

What does RMK mean in the KMSP METAR? What does A02 mean? _____