

FUEL LEVEL CALIBRATION

1) Press and hold down button # 1 (see *Pilot's Guide* for button orientation.) while you power up the unit. Keep holding # 1 until you see the menu code '10.0' on the top left side of the display.

2) Choosing the 'Fuel Level Type'. *('None', 'Resistive (floats)', or 'Capacitance'.)

Press # 2 until you see '40.0'

Press # 3 until you see '40.1'

Press # 2 until you see '40.5'

Press # 3 to accept it.

Press # 1 or # 2 to change the number on the top right side of the display for:

0 = None.

1 = Resistive (floats).

2 = Capacitance.

Press button # 3 to accept it.

3) To set the 'Max fuel total limit' or MAIN TANK= xx value, use the menu code '40.7':

Press # 2 until you see '40.7'

Press # 3 until you accept it.

Press # 1 or # 2 until you have your Main tank total useable showing on the top right side of the display in the 'RPM' field.

Now press # 3 to accept it.

Press # 5 to exit, and you will see '40.0' again on the display.

4) Now, you must erase the 'Primary' and 'Secondary' Left and Right tank by using the menu codes '61.0', '61.1', '61.2', and '61.3'. You must follow the procedure below regardless if you have any values already programmed into the VM or not.

Press # 2 until you see '60.0'.

Press # 3 until you see '60.1'.

Press # 2 until you see '61.0'.

Press # 3 to accept it, and you will see the word "WARN" flashing towards the top of the display, and "FUEL QTY" "L" appear on the lower right.

Now hold the three buttons # 1, 3, and 4 down at the same time to erase the 'PRIMARY' Left tank. You will see the number '61.0' go back to '60.1'.

Press # 2 until you see '61.1'

Press # 3 to accept it, and you will see the word “**WARN**” flashing, and the “**FUEL QTY**” “**R**” appear.

Again hold down the buttons # 1, 3, and 4 at the same time to erase the ‘**PRIMARY**’ Right tank. You will see the number ‘**61.1**’ go back to ‘**60.1**’ as before.

Press # 2 until you see ‘**61.2**’

Press # 3 to accept it, and you will see the words “**WARN**” flashing, and the “**FUEL QTY**” “**L**” appear.

Hold the # 1, 3, and 4 at the same time to erase the ‘**SECONDARY**’ Left tank. You will see the number ‘**61.2**’ go back to ‘**60.1**’.

Press # 2 until you see ‘**61.3**’

Press # 3 to accept it, and you will see the words “**WARN**” flashing, and the “**FUEL QTY**” “**R**” appear.

Hold the # 1, 3, and 4 at the same time to erase the ‘**SECONDARY**’ Right tank. You will see the number ‘**61.3**’ go back to ‘**60.1**’.

5) To set the ‘**number of the tanks**’, go to menu code ‘**60.1**’:

Get to the **60.1**

Press # 3 to accept it, and at the bottom right side of the display, you will see the “**graph**” for ‘**FUEL QTY**’ appear. Press # 1 or # 2 to choose for ‘**0 Tank**’, ‘**1 Tank**’, or ‘**2 Tanks**’:

‘**0 Tank**’ = is a blank ‘graph’.

‘**1 Tank**’ = is a continual graph.

‘**2 Tanks**’ = is a split graph with L and R letter.

Press # 3 to accept it and you will see the Fuel Quantity ‘graph’ chosen disappear.

*** **Entering the five(5) point ‘Fuel Table’** ***

6) After completing steps 1 through 5 above, you are ready to do the Fuel Table. You will use the menu codes ‘**60.2**’ for the ‘**PRIMARY**’ left fuel tank, and ‘**60.3**’ for the ‘**PRIMARY**’ right fuel tank. When doing the procedure, you will notice in the ‘**RPM**’ field the Ohm value, if ‘resistive’ floats, or the Hz value if Capacitive. On the bottom of the display you will see ‘**FUEL QTY**’ and a letter ‘**L**’ for left tank or ‘**R**’ for right tank. Above this letter – L or R – you will see a number representing the gallons you’ve added. Buttons # 1 or # 2 will be used to subtract, or add gallons.

To enter the five (5) points Fuel Table: (** Start with zero (0) gallons ‘useable’ in the tanks. **)

Press # 2 until you see '60.2' (Left Tank) and proceed below:

A) Now press # 3 to accept it, and in the 'RPM' field will now read an Ohm value(or Hz), and you will see a '0' above the letter 'L' (for left tank on bottom right of display).

Press # 3 only once to accept it and you will see the zero (0) change to a number '1'. Do not let this number '1' fool you. This means it has accepted zero (0) gallons and is ready to accept the next change, not '1' gallon.

Now leave the VM just as it is and go out and add 1/4 tank, and then rock the wing. Be sure to keeping track of how many gallons you've used to do this. You will need this value for step B).

B) After adding the fuel, you will see that the 'RPM' field will now read a different Ohm value. (or Hz value.) Press button # 2 to set the number of gallons you've added. If you go too far, press button #1 to 'subtract' from the number of gallons.

Now press # 3 only once to accept it, and you will see the number you've entered increase by one just like in step A). For example, if you've added '5' gallons, you will see that number increase to '6' after pressing button #3. Again this means the number '5' has been accepted – not '6' - and it is ready for the next change.

Now leave the VM just as it is and go out and add 1/2 tank – keeping track of how many gallons you used to do this. Be sure to rock the wing after adding the fuel. Now continue as in step B) above. Continue the above steps until you've finished all five (5) points for the 'Left Tank'.

Now press # 5 once to exit. You will see the 'RPM' field value and 'FUEL QTY' disappear from the display, and all you will see is '60.2'.

Now for the Right Tank calibration:

Press # 2 until you see '60.3' (for Right Tank)

Press # 3 to accept it, and repeat the same steps as in A) and B) above for the 'Right Tank'. Continue until you've done all five (5) points for the Right Tank also.

When you have completed both the Right and Left tank calibrations, press button # 5 three (3) times to exit. The 'Fuel Level Calibration' procedure is completed.

****OPTIONAL:** For 'tail dragger' type aircraft, do the same procedure as you did above for your PRIMARY Left and Right tanks, also for your 'SECONDARY' Left and Right tank reading. (Again this is for 'tail dragger' aircraft only.) 'PRIMARY' is for tail up - 'in flight' -orientation. The 'SECONDARY' is for 'ground' - tail down - orientation. The menu codes you will use for this are '**60.6**' and '**60.7**'.