MLR SP24XC Flight Recorder instructions

Instructions for use of the MLR SP24XC when it is in 2 sec or 5 sec flight recorder mode.

To switch on, press the yellow button.

Main screen

At first the display will show **-- ?** this means it is acquiring satellite coverage[1]. After a while it will display a number (the number of satellites it can see) and a little picture of a satellite.[2]

If you do not see **-- ?** or the picture of the satellite, Press *Page* to return to the main screen.

VERY IMPORTANT: DO NOT TAKE OFF BEFORE YOU HAVE THE PICTURE OF THE SATELLITE. It may not acquire when you are moving.

At the bottom of the main screen:

WPTS: 0000 This increments whenever you press the *Mark* button. Pilots will be briefed on the use of this feature in a championship.

TR.: 0000 This increments every 5 seconds whenever the MLR is switched on and is your track recording. Memory capacity is 8000 points. **MAKE SURE IT IS NEAR TO ZERO BEFORE YOU TAKE OFF**.

VERS: Select with cursor and press *Enter*. Displays the software version. Press *Next* to display the *GPS Date* which **MUST ALWAYS** be the current year. Press *Enter* to change this*.* Press *Page* to return to the main screen.

LT: Select with cursor and press *Enter*. Track recordings are always recorded in UTC but you can set the difference between UTC and local time for the display on the main screen. As an example, the difference for UK summer time is **+01h 00 min** and for France summertime **+02h 00min.** Press *Page* to return to the main screen. Check that the time shown is correct.

RESET: This wipes the memory and re-boots the MLR. Press *Page* to return to the main screen.

Battery remaining indicator: Battery life is approx. 15 hours with alkaline batteries, 4-5 hours with ordinary ones.

The little telephone symbol: This indicates that the data port is operational.

Other functions

Press the yellow button briefly and you get a screen *Backlight On…. Contrast*. Etc. The default setting is **ON 1 minute**. There is no need to alter this because it will revert to this when you RESET. Press *Page* to return to the main screen.

Batteries

4 x AA Alkaline. When replacing the battery holder, make sure the indent in the battery holder matches the foam inside the battery door. **IT IS THE PILOT'S RESPONSIBILITY TO MAKE SURE THE BATTERIES ARE GOOD.**

Switch off

To switch off, press the yellow button for more than 3 seconds, confirm by pressing *Enter*.

The track is **NOT LOST** when you switch off.

Replacement value

If you lose or damage your MLR flight recorder then is your responsibility to reimburse the owner. Guide value: MLR: £150. Pouch: £20.

Position on the aircraft

The unit must always be positioned with the antenna upwards in a location on the aircraft which has a continuous view of as much sky as possible. The MLR is highly reliable, but if it has a restricted view of the GPS system satellites then the locations of fixes it records will degrade and often it will not record fix points at all. This will almost certainly be critical to your eventual task score.

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[1] If the display shows only WRONG CHECKSUM WAIT PROGRAM then the ROM is corrupted. It is possible to achieve this by disconnecting data cable when altering the internal software. The only solution to this is to send the unit to Joel Amiable joel_amiable@yahoo.fr who can fix it.

[2] Normally it will acquire in a few seconds, however, if you have moved a long way since it was last used then it will need to collect a new almanac from the GPS satellite system which can take quite a long time, up to 10 minutes. If it still doesn't acquire then there is a 'helper' function permitting you to enter the part of the world you are in, after you have set this correctly it usually 'finds itself' in two or three minutes.