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128Kbit UltraPAC

Overview:

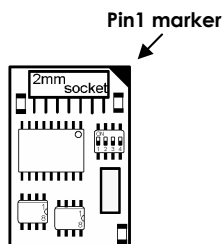
Our 128Kbit UltraPACs are of compact size, yet utilising the latest microcontroller and memory technology are able to function like two individual 64K CAMPacs as well as a Service Menu Enabler. The 128Kbit memory is divided in two 64Kbit memory banks with individual write protect switches. This feature greatly assists in keeping safe backups of model programs on one bank, while using the second to expand the transmitter's memory. However, nothing restricts the use of both banks for backing up purposes or normal operation.

DIP Switches:

	Module disabled (off, off)		Block 1 normal mode
	Block 1 select (on, off)		Block 1 write protected
	Block 2 select (off, on)		Block 2 normal mode
	Service Menu Enabler (on, on)		Block 2 write protected

Installation:

Ensure that the radio is switched off before installing the module. When installing the module in the CAMPac compartment ensure that Pin1 (clearly marked on the module circuit board) is on the right hand side. Also confirm that the transmitter plug and the module socket are matched correctly. Mismatched connectors can result in damage to your transmitter.



Operation:

Before powering on the radio make a last check that the component side of the module's circuit board faces towards the transmitter's aerial. Power the transmitter on; if nothing is displayed on the transmitter's LCD, power off the radio immediately and confirm the correct installation of the module.

For information regarding writing to and accessing the external memory consult your transmitters manual (CAMPac section).

When trying to modify a model program that is contained in a write protected memory bank, the UltraPAC will not acknowledge the transmitter's write request resulting to an external

memory error ("EXT MEM ERR") being displayed. This error condition is intentionally generated to notify the user that writing to the module was not possible and does not indicate malfunction of the UltraPAC.

An "EXT MEM ERR" will also be generated when the active memory bank is write-protected and the current program (programs 11-26 only) is changed though the MSL menu. Although this has not proved to be a problem it would be advisable not to fly using model programs loaded from a write-protected block.

However, other factors could also generate an "EXT MEM ERR", thus it is advisable that the radio is powered off and back on when this error occurs regardless of what caused it. Error alerts that are not related with the write protect feature should be considered seriously. If in doubt remove the module from the transmitter and contact us for advice.

The Service Menu Enabler:

Details regarding the functionality of each of the service menus can be found on our website <http://www.model-gadgets.com/info/servmenu/servmenu.htm> Be careful with the "VOLTAGES" menu of the 9Z radios and do not press the [SET] button as this will mis-calibrate the voltmeters. This menu requires specific reference voltages to be applied to the radio before the [SET] button is pressed. "WIDE REV" and "NARROW REV" are stick calibration menus. When pressing the [SET] button ensure that the sticks to be calibrated are positioned to the limits of their travel. Calibration is confirmed visually by the corresponding check boxes being marked.

NOTE: Altering some of the settings of the service menus can result in malfunction of your radio. Situations like that can be easily resolved by resetting your transmitter; however all of your model programs will be lost. It is therefore advisable to backup all your model programs to your UltraPAC prior to resetting the transmitter.

IMPORTANT: When any alternation is performed to your radio system, regardless of how minor, we strongly advise that a full check of the controls is carried out prior to operating each of your models.

Handling the UltraPAC

When the UltraPAC is not installed in your transmitter, keep it save in the provided anti-static bag. Store the UltraPAC in a dry and cool place; do not leave it in the car in a hot summer day. Avoid unnecessary handling of the UltraPAC while it is not boxed. It is also a good practice to discharge yourself from static electricity before handling the UltraPAC by touching a grounded metal surface. A water tap or the metal case of electrical equipment is usually a suitable grounding point.

Disclaimer:

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