

MRMODULE.COM.AU

# HOLDEN MEMCAL INSTALLATION INSTRUCTIONS

## VN – VP – VR – VS – VT

Thanks for your purchase of a Mr Module replacement memcal. As your replacement doesn't use the original keyed header connector, it is possible to install it incorrectly. Please follow these notes to ensure correct installation.

The original memcal can be found behind the removable aluminium cover. There will be 2x hex or torx screws holding it place.

There are 2 different types, a "long" and "short" version, depending on PCM or ECU type. Long are used on VN to VR as well as VS V8. Short are used with VS V6, VS series 3 and VT applications.

**Long type:** Pull the blue and white levers at each end away from the memcal, while lifting the memcal up to release it.

**Short type:** Squeeze the 2 fingers at each end to release the locking tabs while lifting the memcal out

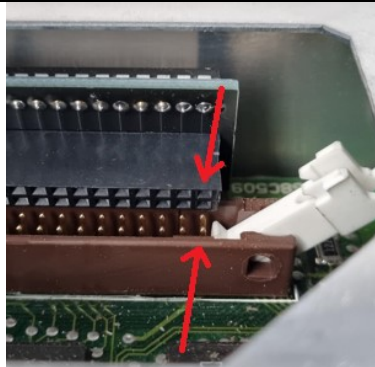


The memcal contains a memory chip that stores all the data that the ECU uses (operating system and calibration). Different memcals were used with the same ECU in different applications, and the same memcal may be compatible with different ECU's. The same applications often had many different memcals as changes were made to the calibration. The exact version of memcal is identified by its "BCC code". There is a silver sticker on top of the large memory chip inside each memcal. Printed on the sticker is the 4 letter BCC code which identifies what is stored on the memcal (assuming it hasn't been reprogrammed). The large memcals can be read through the hole in the blue cover, the short type requires the blue cover to be unclipped and removed. Do not remove the silver sticker as it covers the window that is used to UV erase the chip, and light will corrupt the data inside.

### LONG TYPE

Insert the memcal so that the memory chip is towards the white lever end. There is "white" and "blue" printed the on PCB, ensure they match the colour of the locking handles at each end.

Make sure the pins at the end are aligned. It is possible to fit the memcal 1 pin off if not careful.



### SHORT TYPE

Take note of the positions of the keyways in the socket. The new memcal has white markings on the PCB which align with these.

Note: There is also an extra pin next to pin 1 in the socket, which is not connected to the memcal.

