

# UPGRADING OF WIZORD 4 TO MERLIN 4

**Warning: The procedure is to be done by trained installers only. High voltages are present inside the unit.**

- Turn Wizord 4 off. Disconnect mains, remove the lid and disconnect the battery.
- Install the keypad and make sure the keypad wires are always far away from high voltage wires. **No shared holes or conduiting!**
- Remove jumpers: JP1 and JP2 on the printed circuit board.
- Install jumpers : JP3 and JP4 on the printed circuit board.
- It is not a good practice to touch the legs of the integrated circuit (IC). Discharge your body of any static electricity, by touching the earth terminal, before handling or installing the IC.
- Note the orientation of the integrated circuit on the circuit board. The IC is located to the right of the relays and slightly to the left and above jumper JP4, with the energizer having its fence terminals facing towards the floor. The identifying label on top of the IC has a small half circle at the end. The replacement IC must be installed with the same orientation. If the label has been removed, the small dimple in the top of the IC indicates the orientation i.e. half-circle or dimple must be towards the fence terminals of the energizer (**see figure 1 below**).
- Use a small flat screwdriver to remove the IC from its socket. This is best done by inserting the screwdriver between the IC and socket and levering it slightly. Repeat at both ends alternatively until IC comes out of socket.
- Gently insert the new IC with the correct orientation. This is best done by aligning the legs on the one side of the socket and then gently rolling the IC until the other sides legs align with the socket. If the legs appear too far apart, remove IC, and align the legs of the one side of the IC by uniformly pressing the legs down on a flat surface.
- **NEVER INSERT OR REMOVE AN IC WITH MAINS OR BATTERY CONNECTED TO THE UNIT.**
- Connect the battery. The energizer will start running. Within 40 seconds of connecting the battery enter the code 2389# on the keypad. The energizer will turn off. If not, disconnect the battery. Reconnect the battery and repeat the keypad exercise.
- Remove jumper, JP4. Replace the old Wizord4 lid with new Merlin4 lid. Note. The fence voltage indication on the unit has been turned off intentionally.
- Reconnect mains.
- Check fence operation in low voltage mode. Change low voltage parameters if necessary using installer options.
- Please leave Merlin4 User Manual with the end user.

**Figure 1**

