

## **3181 VERSION B SOURCE CODE UPGRADE**

A customer complained that he wanted to hold down buttons for more than 2 seconds and that the software would not let him do it! The reason was that he was controlling variable speed motors: one button up, another down. Fair enough. We had not thought of that. So we have done modified software as follows:

To change the channel operating modes you now hold ANY key down while powering up the receiver. When you release the key, the indicator LED will begin to flash letting you know that you have entered channel setup mode. Now just hold any of the 10 key channel combinations for the usual 2 seconds to change between MOMENTARY or TOGGLE modes.

The indicator LED will flash at a faster rate for a second or so to let you know that the mode has changed. It will then stay off until you release the key(s). You can modify all 10 channels in this way - no need to turn power back off in between setting channels.

No relays will operate in channel setup mode. Having relays operating while setting up may be a bad thing if the relays are connected to other equipment.

Once satisfied that the channel setup is complete, turn the receiver power back off. If NO transmitter keys are pressed on receiver power up, then the system is in operational mode, and the keys will control the relays as per the user setting.

Download the hex file for this mode from:

<http://www.quasarelectronics.com/software/3181bsource.zip>

You can buy one from us (Order Code F3181B at [http://www.quasarelectronics.com/firmware\\_chips.htm](http://www.quasarelectronics.com/firmware_chips.htm)) or you can reprogram the 16F828(A) chip yourself if you have a suitable programmer (like our 3128 USB programmer available at <http://www.quasarelectronics.com/3128.htm>).