The 8511, 8512, and 8513 modules have three functions that are not described in the Users Manual.

1. The Scale Factor parameter, located in word 1 of the Setup Programming Data, now has a maximum value of 4096, instead of 1024, as the manual currently shows.
2. The Timed Output function has been modified when the module operates in either Independent Mode or in Mode 3. Previously, the timer would begin counting as soon as the resolver position entered the range defined by the ON-OFF setpoints, regardless of whether the output was enabled to fire by its corresponding input.

    The 8500 module now waits for both the input to be active, and for the position data to be in the range specified by the programmed ON-OFF setpoints, before the timing operation will begin.

3. The 8500 module has the ability to operate in "Slave Mode." While operating in slave mode, the 8500 module receives its resolver signals from another "Master" 8500 resolver module. There are two steps for operating the 8500 module in slave mode.

    ▪   The jumper strap must be removed from the JP2 header. The following diagram shows the location of this jumper strap.
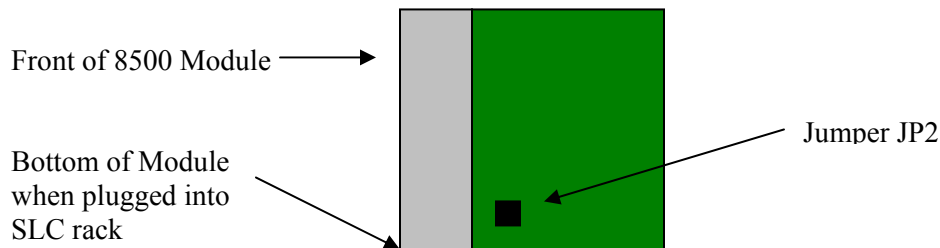
    ▪   The module must be configured to operate in Slave Mode at every power up. This is accomplished by setting bit 10 in setup word 0 (M0:X.0/10 where X is the slot number) when the setup data is sent to the module.

        Until the module is configured for Slave Mode, the module's green LED will be off, the red LED will be on solid, and the Module Fault bit 6 (I:X.0/6 where X is the slot number) will be set in the input image table.

        Please note that an 8500 module operating in Slave Mode decodes the resolver's absolute position data. The Scale Factor and any Offsets that have been programmed into the Master resolver module do not affect the slave 8500 module's position data.