Applies To:
All RUMBA32 boards V1.0E or earlier (including currently shipping as of December 2019).

Purpose:
Enables bidirectional SPI communication with SPI-mode stepper drivers (TMC2130 etc.) in RUMBA32 stepper driver sockets. Error in design prevents bidirectional communication without mod - SPI drivers will receive commands but can not respond. Most printer firmware requires bidirectional communication for TMC drivers to function fully.

Steps:
1. Remove green jumper cap from jumper pins marked SLP (leftmost jumper under each driver).
2. Solder wire connecting top and bottom pins together (shown in red below).

Notes:
This mod must be done for each socket that is going to use an SPI driver. It does not have to be done in other sockets.

Non-SPI drivers may no longer work in the modded socket. Soldered wire must be removed to use non-SPI drivers in this socket again.

The wire can be installed either on the front or back of the board (see photos below).