To Synchronize the E-Controls
(synchronize their internal clocks)

Do this sometime in the week before your meet. Best done <u>before</u> you print the maps, in case a control gives the low-battery warning and needs to be replaced.

You will need:
- All the controls for your meet, including the Start control(s), Finish control(s), and Check. Sync a few extra controls as spares.
- *optional*: The GeBe thermal splits printer, for date/time heading on printed splits.
- *optional*: The download box with USB connector (usually travels with the club laptop).
- The special control labeled **SI-Master** (It has an LCD display on its top face.)
- The black coupler rod
- The purple dibber labeled **Service Off**

There is an SI-Master, coupler rod, and Service Off dibber in box #1 and box #5 of controls.
The SI-Master doubles as the Clear control.

The procedure:
1. Punch the Service Off dibber in the SI-Master several times, until you see **EXT MA** ("extended time master") in the LCD display.

2. Press the coupler rod into the SI-Master so that friction holds it in place.
3. Put each control on the coupler rod until it beeps twice, signaling clock synchronization. *Several rapid beeps* signals low battery – use another control, and notify the Equipment Manager.
4. After all the controls are synchronized, check that they are labeled correctly. If you find mis-labeled controls, contact the Equipment Manager.
   - <u>For controls</u>: look at the LCD on the underside. The display will cycle between its programmed number (e.g. **CN 173**), the time, and other bits of info.
   - <u>For other stations</u>: The LCD should display the station's function:
     - **CHK** #   - for Check
     - **CLR** #   - for Clear
     - **STA** #   - for Start
     - **FIN** #   - for Finish
5. Punch each control with the Service Off dibber to turn it off. (It will beep once and the LCD will go blank.) **Start** controls have to be punched <u>twice</u> to turn off.
6. *optional*: Use the SI-Master to sync the download box of the GeBe thermal printer. It should beep twice. (The printer does not need to be turned on.) Then punch the box with the Service Off dibber to turn it off.
7. *optional*: Use the SI-Master to sync the orange download box. Then punch the download box with the Service Off dibber to turn it off.
8. Finally, punch the SI-Master with the Service Off dibber to turn it off. This returns the SI-Master to its programmed function (which should be a Clear station).

This YouTube video shows the procedure: https://youtu.be/EUBEcuNVME0