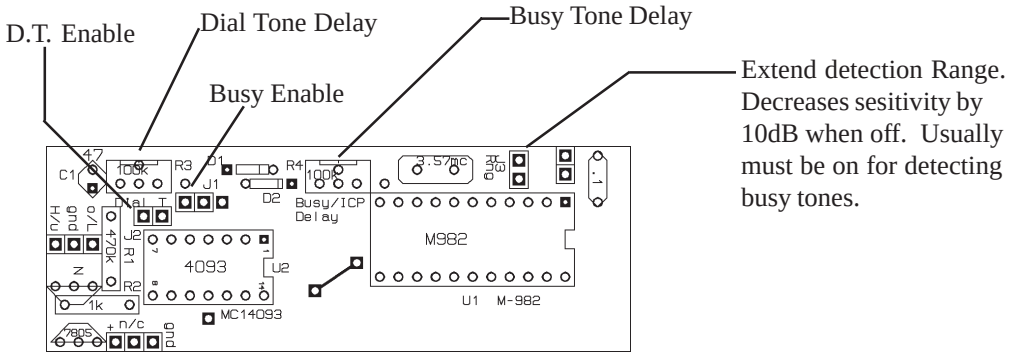
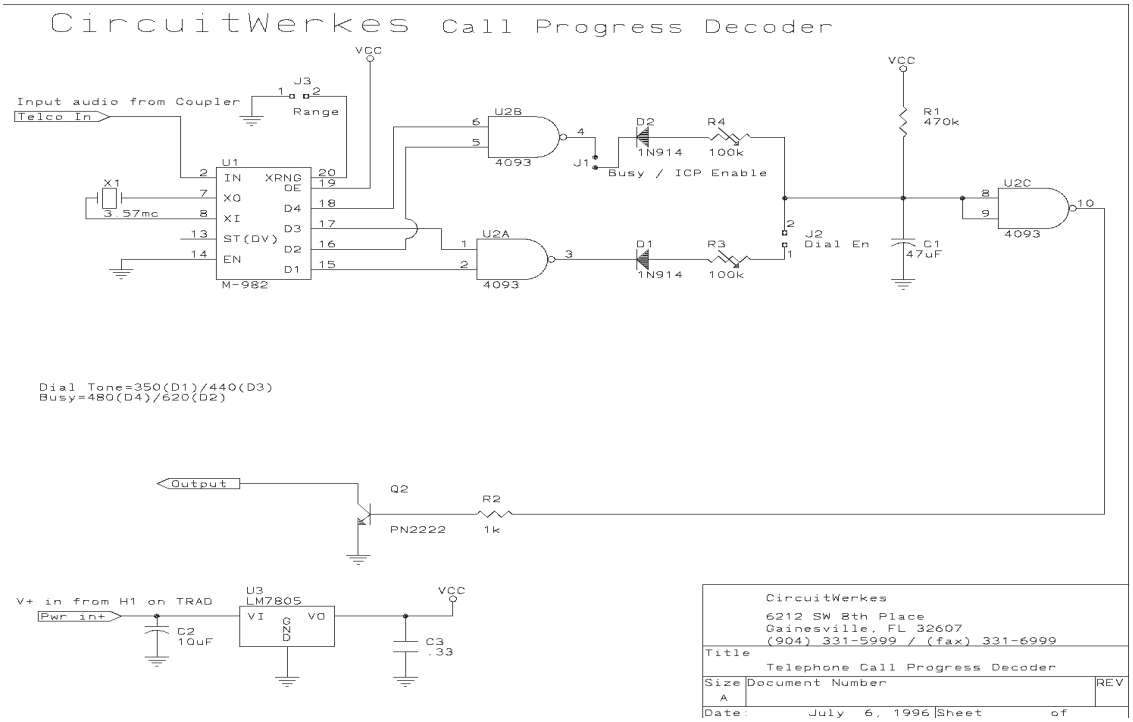
CircuitWerkes' Call progress Decoder Option Board
Installation / Operating Instructions

The CircuitWerkes Call Progress Decoder (CP-1) is a precision tone decoder that is designed to listen for the presence of dial or busy tones on telephone systems that do not provide end of call battery signalling. When the selected tone is detected for a period of several seconds, the Call Progress Decoder causes the autocoupler to hang up.

The CP-1 is insalled as a daughter board to a DR-10 main board. The CP-1 should be connected by three sets of mating connectors to the DR-10. The DR-10 connectors are labelled H2 and H3 and H4. After connection, the CP-1 jumpers should be set to detect the desired tones. Both tone decoders may be operated simultaneously. Adjustment potentiometers R3 & R4 adjust the delay before detection of the tones. Clockwise rotation increases the detection times. 3 to 6 seconds is suggested to avoid false tripping.
Due to tone masking, the DR-10's hybrid null must be adjusted properly to allow the call progress decoder to recognize the tones.

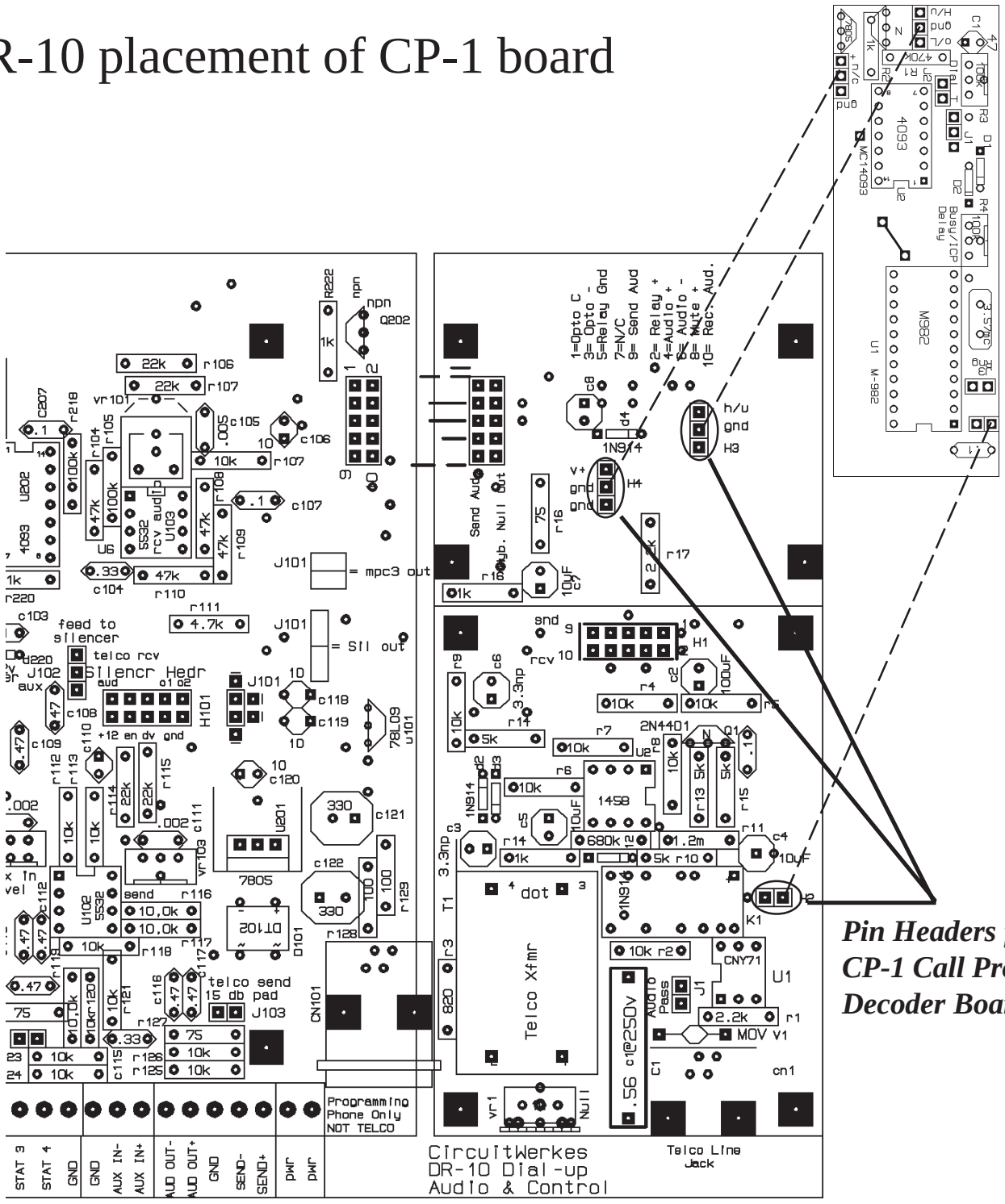
To remove the top cover of the DR-10, first remove the optional rack mount panel (if so equipped) then press the Red and Green LEDs on the front panell in with your fingertip so the fronts of their lenses are even with the front of the case. Next remove the four (keps) nuts from the case and remove the top half. You now have acces to the main board.





The CP-1 board can only fit in one orientation on the DR-10 board. See drawing on reverse.

DR-10 placement of CP-1 board



Reassembling the case: First set up your CP-1 and test its operation. The CP-1 should be powered up for 30 seconds before use. Once your CP-1 is adjusted to your satisfaction, gently pull the two front-panel; leds straight forward about 1/4" so the flat edges (where the leads come out) are roughly even with front edge of the bottom plate. Next angle the fronts of the leds down just slightly, somewhere around 30 degrees. Place the top of the box on with the front angled down to roughly match the angle of the leds and position it so the LEDs enter their round holes in the front edge of the box. Gently move the box-top into position over the front two 6-32 studs (at each side of the bottom plate) and lower the top onto the front studs first then the back. With just a little luck your LEDs will have made it through the front panel with no problem.

Replace the (keps) nuts that hold the top in place and reattach your rack plate, if so equipped.