FORM C OPTION
MODEL FC1

FOR USE IN
RECOR 323 LVC VOLUME CORRECTORS

ADDENDUM TO USERS MANUAL

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FORM C OUTPUT CARD
MODEL NO. FC1

FOR USE IN
RECOR 323 LVC VOLUME CORRECTORS

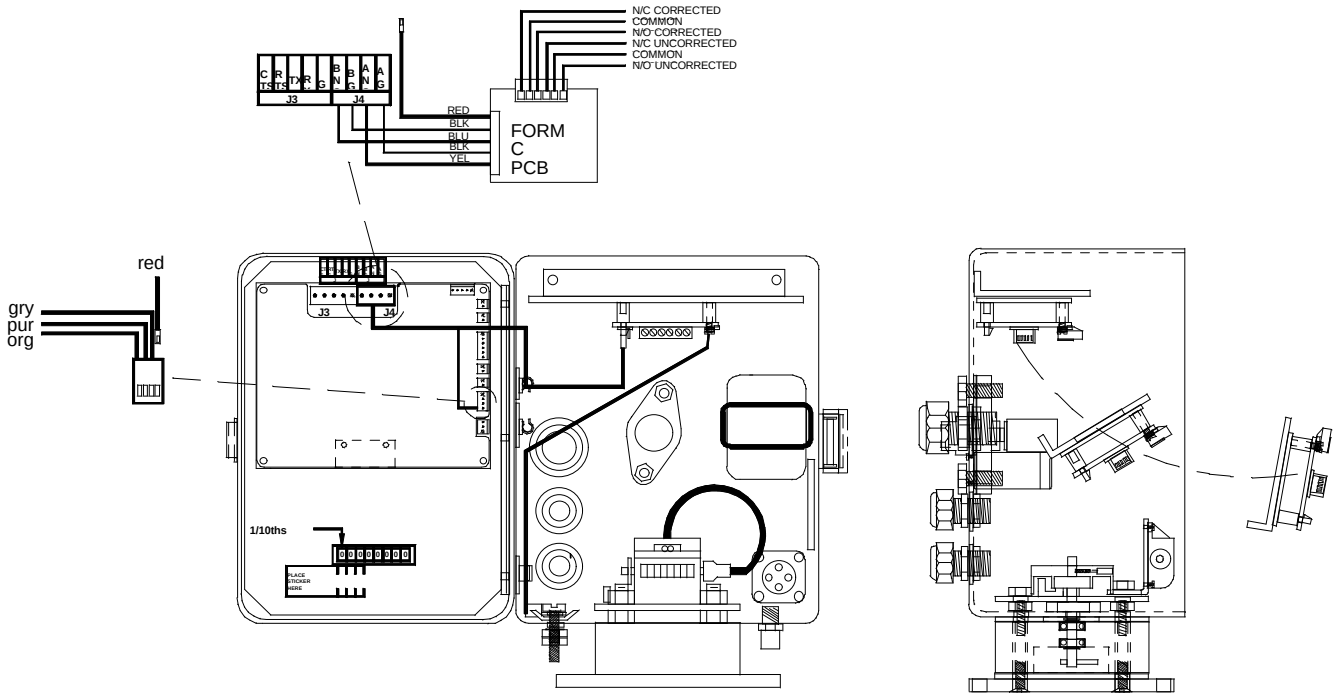
1.0 DESCRIPTION

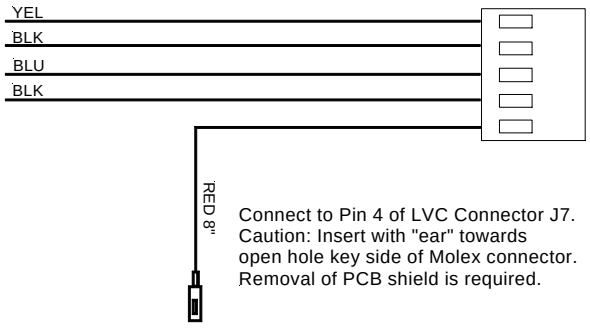
The optional FC1 output card (PN 61-9500) is used for repeating the standard Form A (single throw) uncorrected and corrected volume pulse outputs available from the RECOR 323 LVC electronic volume corrector to Form C (double throw) pulse outputs.

2.0 INSTALLATION

For factory installed units, the standard Form A screw terminals on the LVC circuit board are not used for output connection. Instead, refer to the drawing for connecting the Form C uncorrected and corrected outputs.

For field retrofits (PN 61-9510), the FC1 card is mounted to a bracket that is easily installed into the RECOR 323 LVC housing. In retrofit kits, a special wire harness (PN 61-9700) is provided. Referring to the drawing, the 5 pin molded connector plugs into the FC1 card, and the four tinned leads connect to the Form A pulse output screw terminals on the LVC circuit board per color indication shown. The crimp terminal is to be inserted into the open position on the 4 pin molded connector installed on communication port 1 of the LVC circuit board.





When installing the FC1 equipped LVC, refer to the LVC manual for proper earth grounding instructions.

3.0 CONNECTING TO EXTERNAL PULSE RECEIVING DEVICES

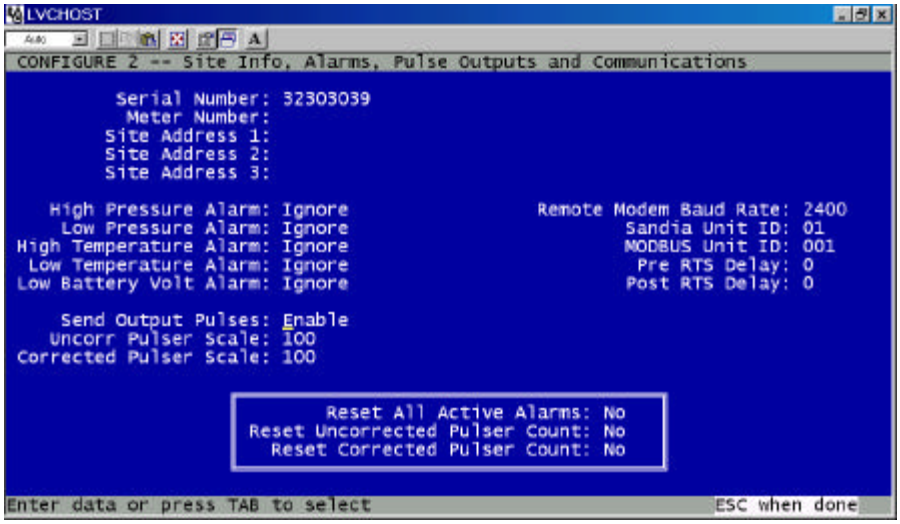
NOTE: Use of shielded cable is recommended

The FC1 card provides conventional screw terminals for connecting to pulse receiving devices. Sharing the common leg to create two Form A pulses from one Form C channel is allowed.

If using two wire connections to the pulse receiving device, take note of normally closed or normally open wire pairs as required.

4.0 SOFTWARE CONFIGURATION

Follow the same configuration instructions for standard Form A pulse configuration.



5.0 EFFECT ON LVC BATTERY LIFE

An LVC equipped with the FC1 card can expect to reduce the standard battery pack life by twenty five percent to (approximately three years).

6.0 ELECTRICAL CONSIDERATIONS

To maintain electrical classification ratings use intrinsic safety barriers or intrinsic safety repeater relays. Refer to the RECOR 323 LVC Control Drawing and the recommendations of the manufacturer or provider of the pulse receiving equipment.

7.0 SPECIFICATIONS

Dimensions:
1.75” x 2.2”

Power consumption:
< 5uA Quiescent
< 15uA Pulsing

Pulse Output Characteristics:
Open drain
1 to 30 volts (maximum)
25mA maximum
1 k ohm minimum load resistance

Duty Cycle:
Each pulse has a fixed width of 62.5mS with a duty cycle of 50% (62.5mS “on”, 62.5mS “off”); controlled by the LVC.