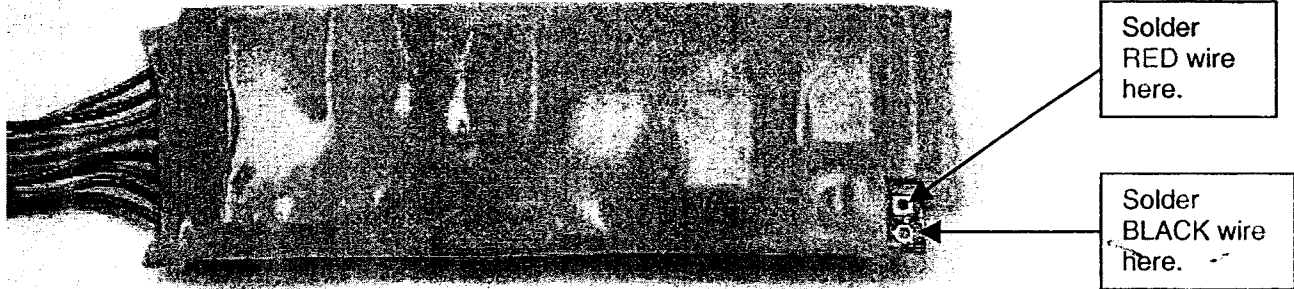


## DSD-100LC or DSD101LC Capacitor Installation Instructions

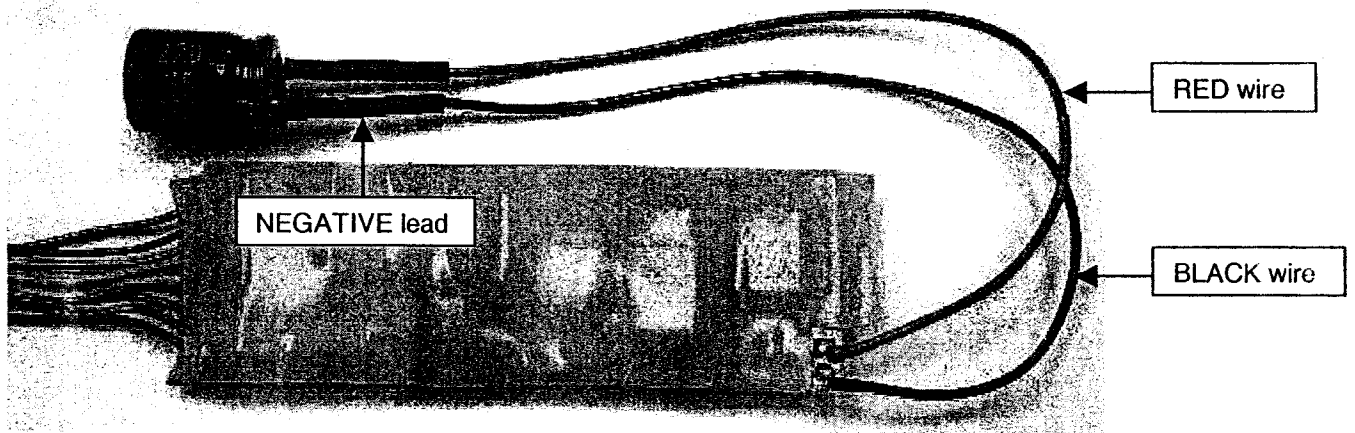
**Purpose:** To allow the DSD (Digital Sound Decoder) to remain temporarily powered and operational in the event that the Locomotive wheels temporarily lose contact with the track under normal operation.

**Bill Of Material:** 1) 220uF capacitor. 2) 4" each of Red & Black 30AWG wire. 3) Heat-shrink tubing or electrical tape.

- Buy a capacitor from Soundtraxx (220uF is PN: 631007) or buy a capacitor from your local electronics supply store.
- Use an aluminum electrolytic capacitor rated at 25 Volts with a capacitance value in the range between 220uF (220 micro-farad) and 470uF.
- The negative lead of a radial leaded capacitor is identified by being the shorter of the two leads in length. Also, a stripe with a minus (-) symbol is located on the side of the capacitor body nearest to the short or negative lead.



- Solder a black wire (30AWG preferred) between the DSD PCBA pad and the negative lead of the capacitor as shown in the photos.
- Solder a red wire (30AWG preferred) between the DSD PCBA pad and the positive lead of the capacitor as shown in the photos.
- Individually insulate the bare capacitor leads with heat shrink tubing or electrical tape.



- Complete DSD assembly shown with a capacitor supplied by Soundtraxx.