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LCRU2 Pinout
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- J1–1 Power (provides power to RailSounds P3-1)
- J1-2 Chassis (provides Ground to RailSounds P3-2)
- J1-3 NC (Unknown)
- J1-4 LCRU data (Provides serial data to RailSounds P3-4)
- J2–1 Front Coupler (return from coupler is grounded to chassis)
- J2–2 Rear Coupler (return from coupler is grounded to chassis)
- J3-1 Program/Run Switch
- J3-2 Program/Run Switch
- J4-1 Rear Lamp (return goes to J4-4 or local chassis ground)
- J4-2 Headlamp (return goes to J4-4 or local chassis ground)
- J4–3 Smoke (Steam) or Rear Lamp (diesel)
- J4-4 Ground
- J4-5 NC (Unknown)
- Molex-1 Ground (component side view, Molex to left, Pin 1 is upper right corner)
- Molex-2 Power (center rail)
- Molex-3 NC (Unknown)
- Molex-4 Motor Brush Blue (component side view, Molex to left, Pin 4 is upper left corner)
- Molex-5 Motor Brush Yellow
- Molex-6 Field Green
- Antenna-1 NC (Unknown)
- Antenna-2 Antenna (Inboard pin)

RailSounds 2.5 Pinout

- P1-1 Sound Switch
- P1-2 Sound Switch
- P2-1 Volume Control outside terminal Green
- P2-2 Volume Control middle terminal Yellow
- P2-3 Volume Control outside terminal Blue
- P3-1 Power Red
- P3-2 Chassis Black
- P3-3 NC (Unknown)
- P4-4 LCRU Data Violet (caution: Lionel documents sometimes show this data line connected to P3-3)
- P4-1 Speaker
- P4-2 NC (Unknown)
- P4-3 Speaker
- P5-1 Speed sensor (Hall effect) Green
- P5-2 Speed sensor (Hall effect or reed switch) Blue (Hall effect) or Black (cherry/reed switch)
- P5-3 Speed sensor (Hall effect or reed switch) Yellow (Hall effect) or Yellow (cherry/reed switch)