

Technical Bulletin #6

Radio Control Interface

This bulletin is intended for customers who wish to build their own RC Adapter Board. It uses widely available components found at many electronics retailers.

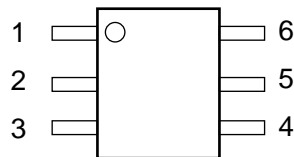
A complete kit is available from SoundTraxx (RC Adapter Kit part number 810111, \$25.00). It contains all of the necessary materials to build any version of this interface.

Assembly Notes:

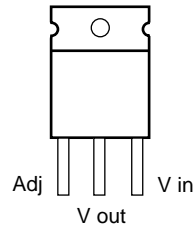
Eight wiring diagrams are provided for four of the most popular RC systems. Both battery power and track power diagrams are provided for Locolinc, Aristo-Craft, Remote Control Systems, and Reed's Instant RC. Use the appropriate wiring diagram to connect the RC Interface to the RC Receiver Unit and the SoundTraxx Sierra Sound Module.

Parts List:

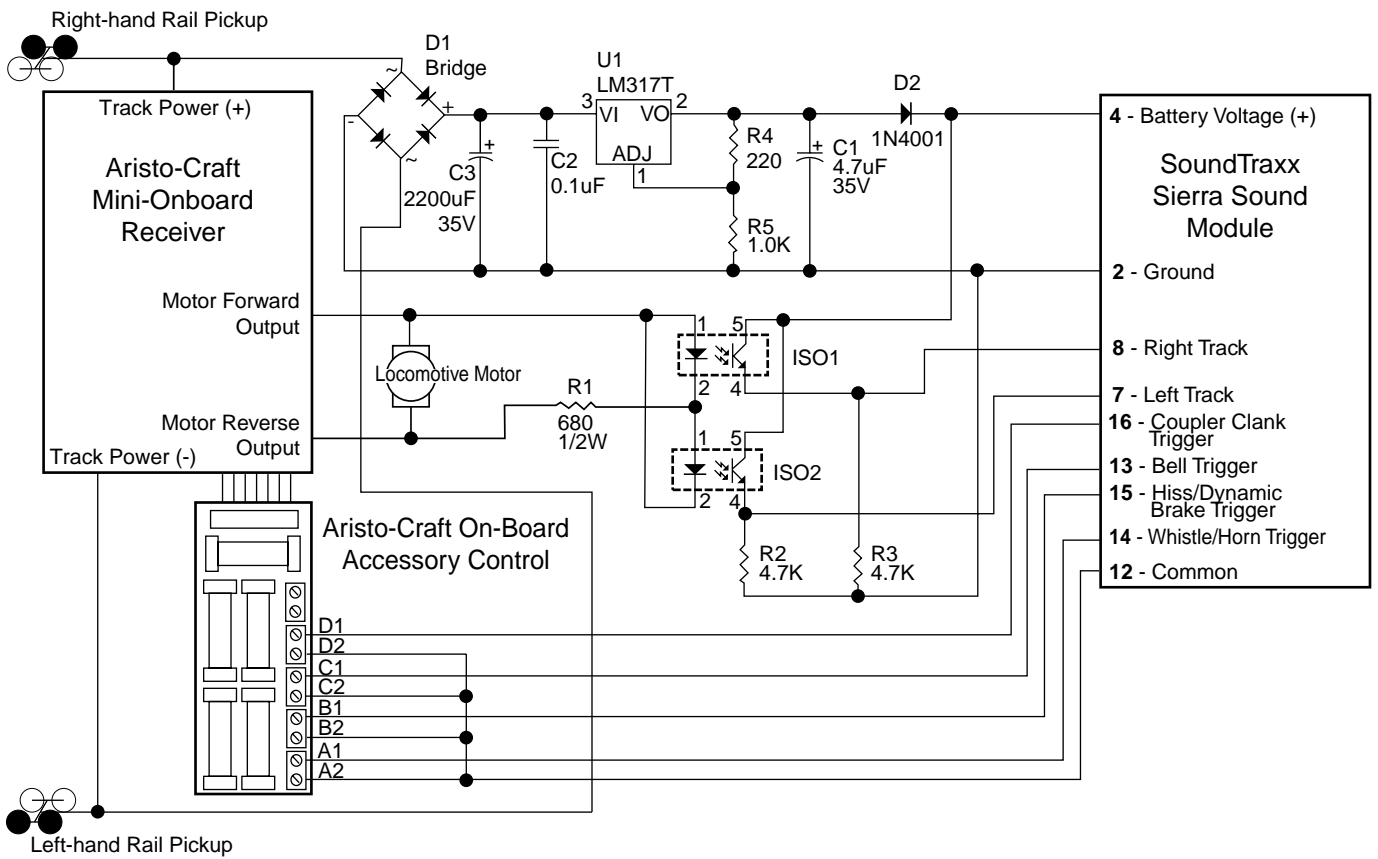
Quantity	Item Description	Part Number
1	Resistor, 680 ohm, 1/2W, 5%	Radio Shack 271-1117
1 (5 for Locolinc)	Resistor, 220 ohm, 1/8W, 5%	Radio Shack 900-0049
1	Resistor, 1.0K ohm, 1/8W, 5%	Radio Shack 900-0065
2	Resistor, 4.7K ohm, 1/8W, 5%	Radio Shack 900-0081
1	Capacitor, 0.1uF, 50V, Ceramic	Radio Shack 272-135
1	Capacitor, 4.7uF, 25V, Electrolytic	Radio Shack 272-1012
1	Capacitor, 2200uF, 35V, Electrolytic	Radio Shack 272-1020
1	Diode, 1N4001, 1Amp, 50V	Radio Shack 276-1101
1	Bridge Rectifier, 1Amp, 100V, 4-pin DIP	Radio Shack 276-1161
1 (For Reed's RC only)	Bridge Rectifier, 4 Amp, 50 Volt	Radio Shack 276-1146
1	Voltage Regulator, LM317T, TO-220	Radio Shack 276-1778
1	Heat Sink, TO-220	Radio Shack 276-1368
1	Mounting Hardware Kit TO-220	Radio Shack 276-1373
2 (5 for Locolinc)	Optoisolator, single, 4N32, 6-pin DIP	Radio Shack 900-6925



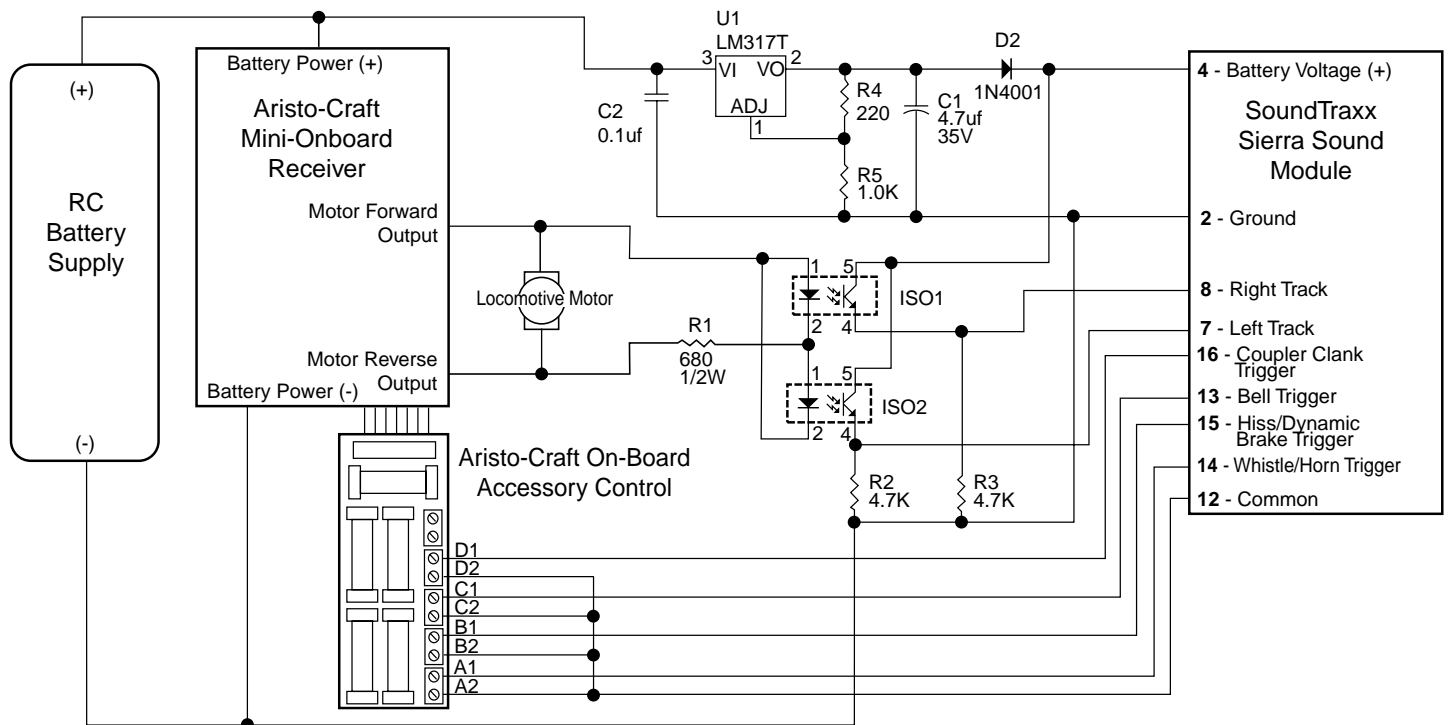
Optoisolator Pinout



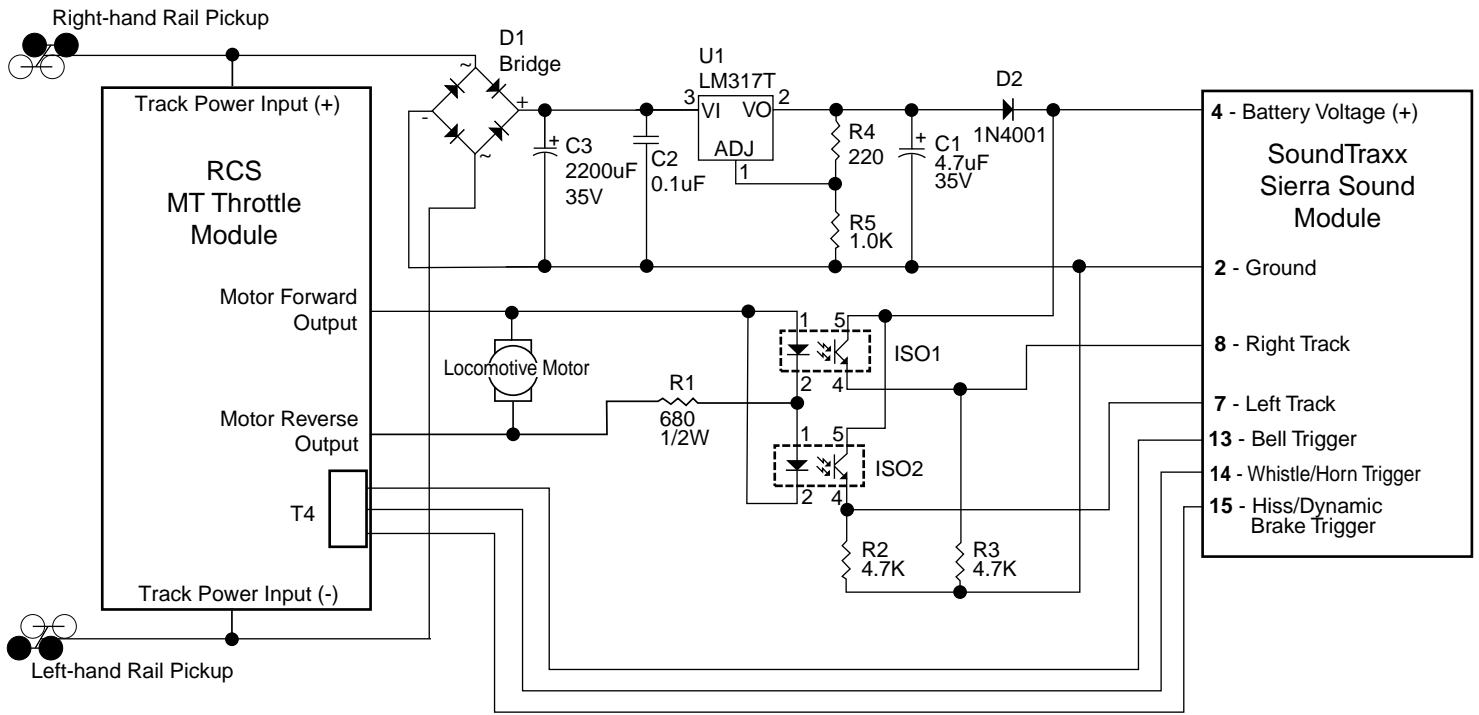
Regulator Pinout



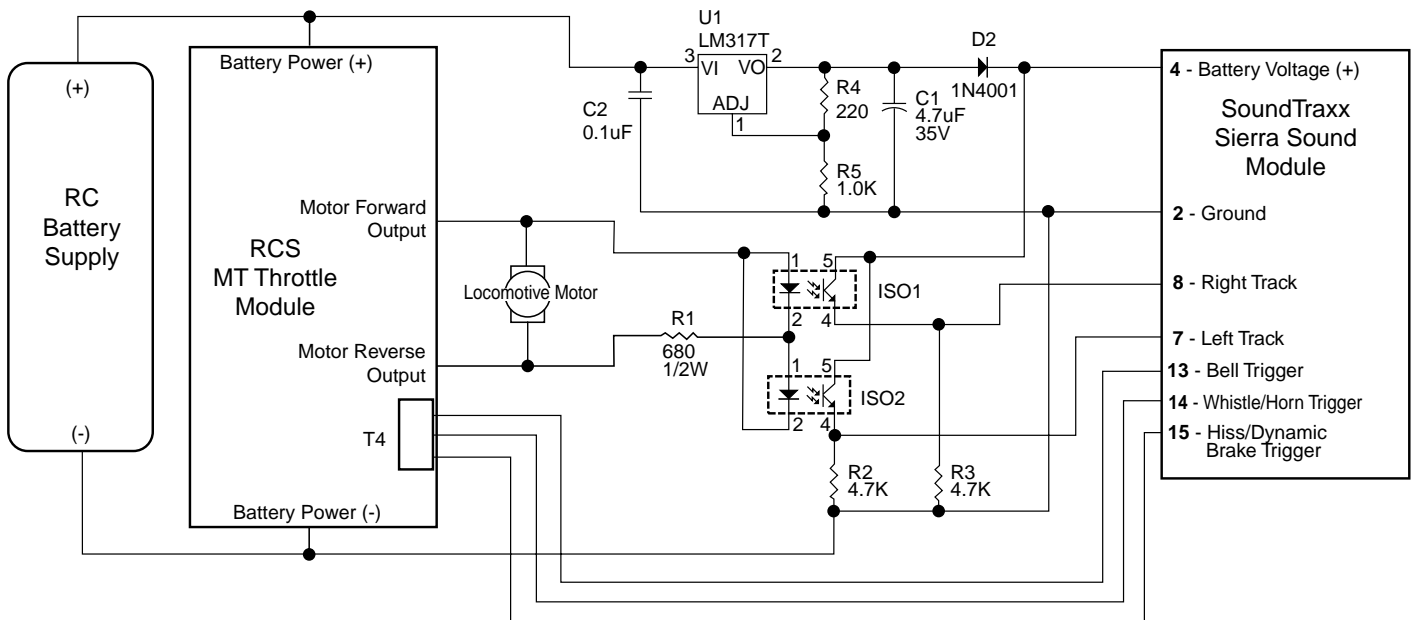
Aristo-Craft Train Engineer Track Power Wiring Diagram



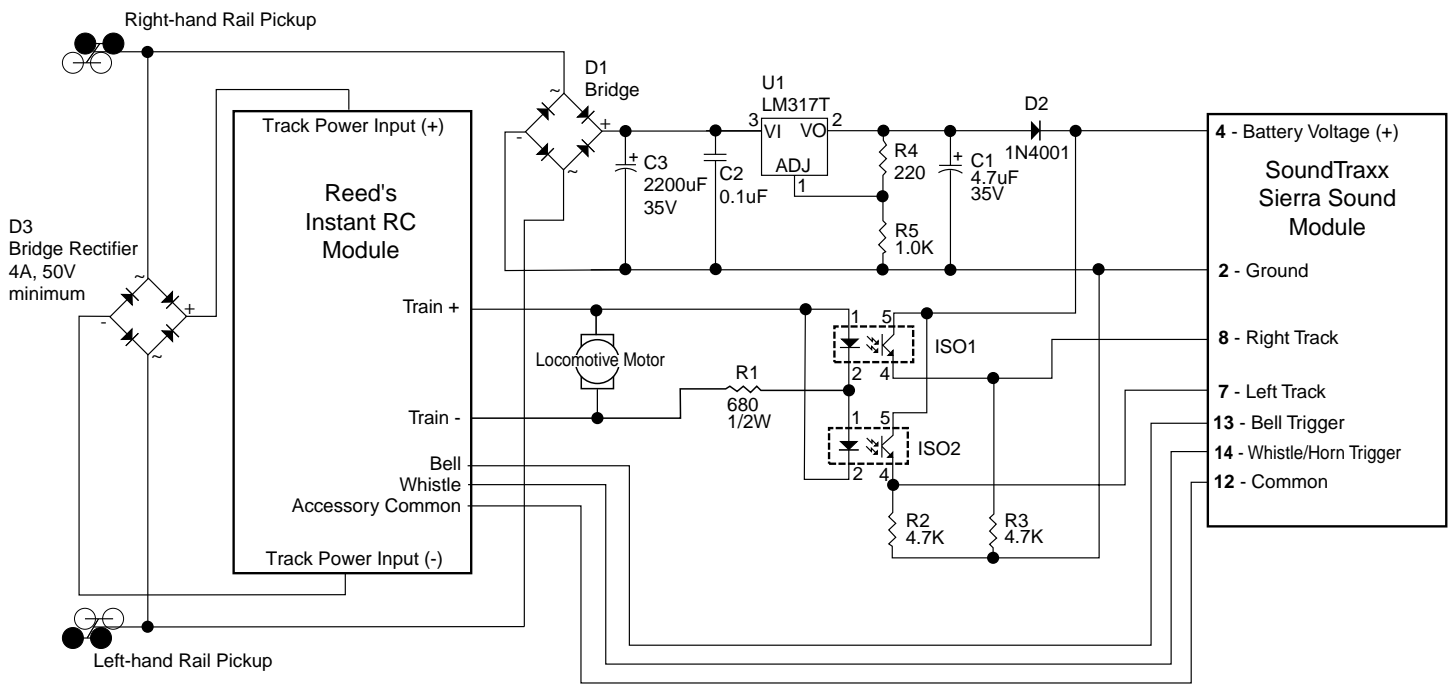
Aristo-Craft Train Engineer Battery Power Wiring Diagram



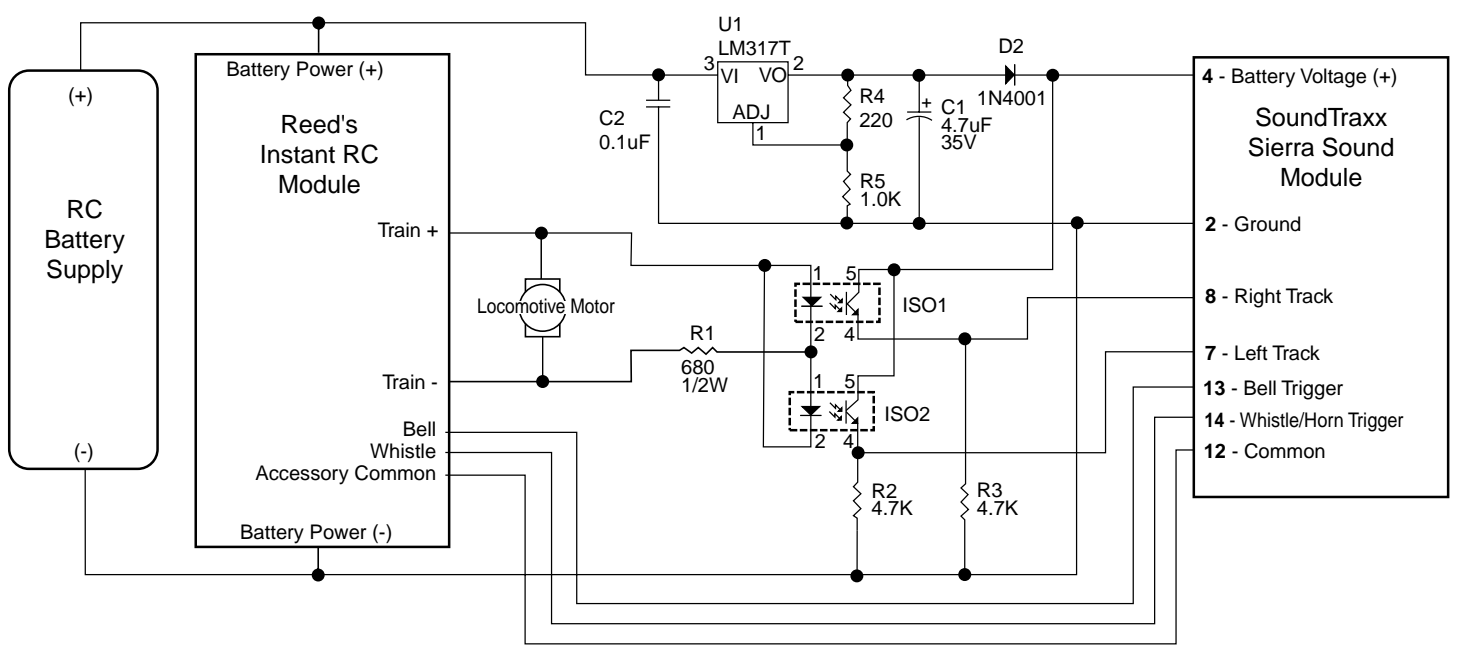
RCS Track Power Wiring Diagram



RCS Battery Power Wiring Diagram



Reed's RC Track Power Wiring Diagram



Reed's RC Battery Power Wiring Diagram