



Model SIM-8 Instructions

The ARC model **SIM-8** *Sensor Integration Module* will greatly simplify wiring sensors into your ECU. With only one cable wired to the ECU it provides a convenient hub to tie in up to 8 separate sensors. A green LED indicates the presence of +5V from the ECU.

Each sensor is connected to the SIM-8 using a four-position terminal block which has provisions for +5V from the ECU, ECU Ground, Signal, and Shield.

Wiring Instructions

Mount the module anywhere that is convenient, using the four screws provided to mount it to a secure surface. The module does not need to be mounted to a grounded surface.

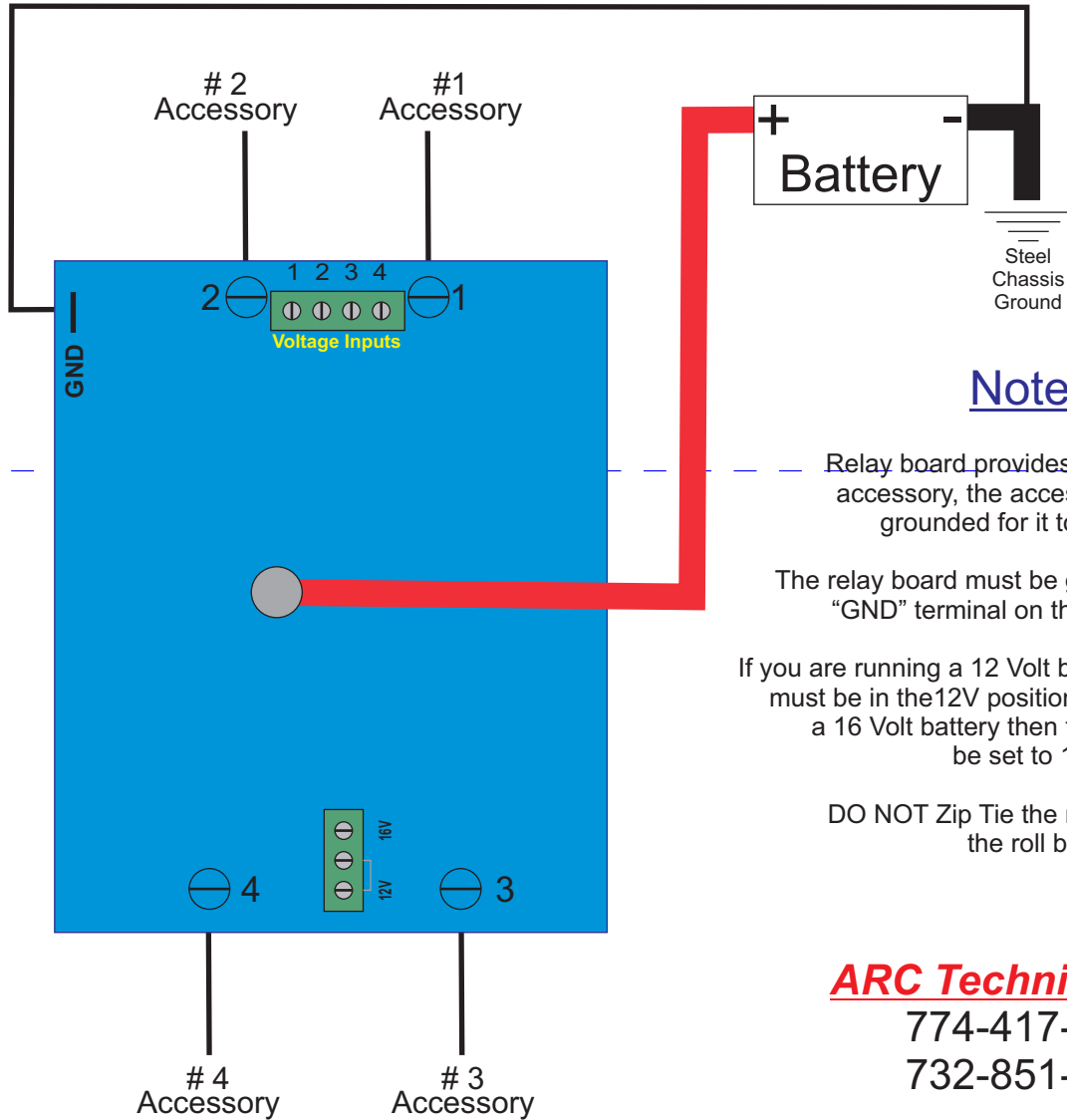
1. Connect the male terminal marked "**BATT GND**" directly to the Ground terminal of the battery.
2. Connect the included 10 conductor cable to your ECU and the terminal block marked "**TO ECU**". Route the cable over the cable tie base and secure using the included cable tie.
3. The uninsulated bare wire in the 10 conductor cable should be connected to the male push on terminal marked "**SHIELD**". Leave the shield wire disconnected at the ECU end of the 10 conductor cable.
4. Connect your sensor' cables to each sensor terminal block. If the sensor cable has a shield, connect the shield only to the terminal marked "**SHIELD**" on the green terminal block. Leave the shield disconnected at the sensor end of the cable.

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Notes

Relay board provides power to your accessory, the accessory must be grounded for it to function.

The relay board must be grounded using the "GND" terminal on the relay board.

If you are running a 12 Volt battery then the jumper must be in the 12V position. If you are running a 16 Volt battery then the jumper must be set to 16V.

DO NOT Zip Tie the ribbon cable to the roll bar.

ARC Technical Help:

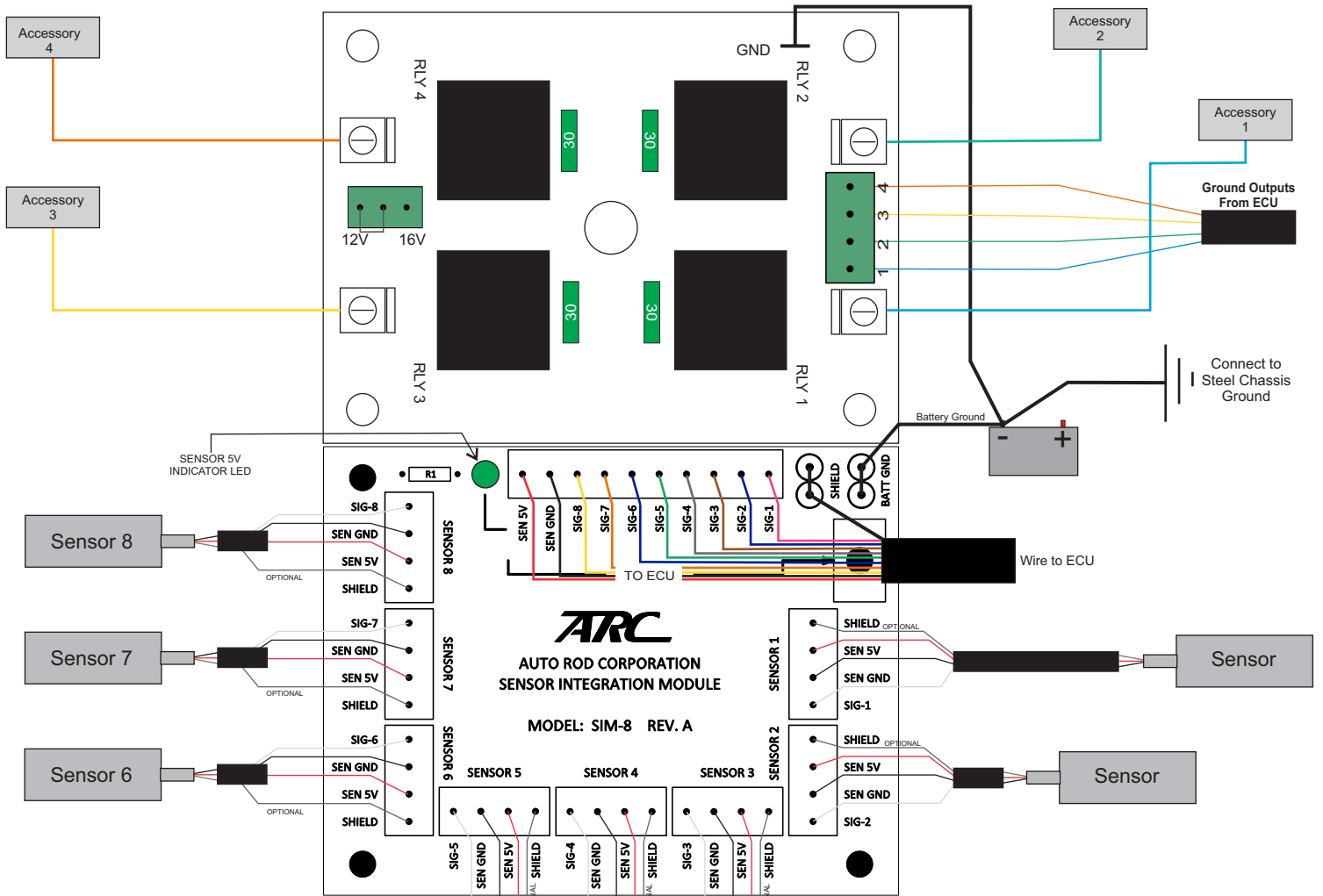
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Integrated Sensor Module SIM-8 ECU

Wiring Diagram



Sensor Assignments

- Sensor 1: _____ ECU Pin _____
- Sensor 2: _____ ECU Pin _____
- Sensor 3: _____ ECU Pin _____
- Sensor 4: _____ ECU Pin _____
- Sensor 5: _____ ECU Pin _____
- Sensor 6: _____ ECU Pin _____
- Sensor 7: _____ ECU Pin _____
- Sensor 8: _____ ECU Pin _____

Wiring Instructions

- **SEN 5V** - Sensor Power from ECU
- **SEN GND** - Sensor Ground from ECU
- **SIG-1 - 8** - Signal Inputs to ECU
- **BATT GND** - Battery Ground
- **SHIELD** - Sensor Wire Shield (optional)
- If Sensor 5V LED is lit, sensors have 5V

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Tech Support: 732-851-5095 or 774-417-6542