

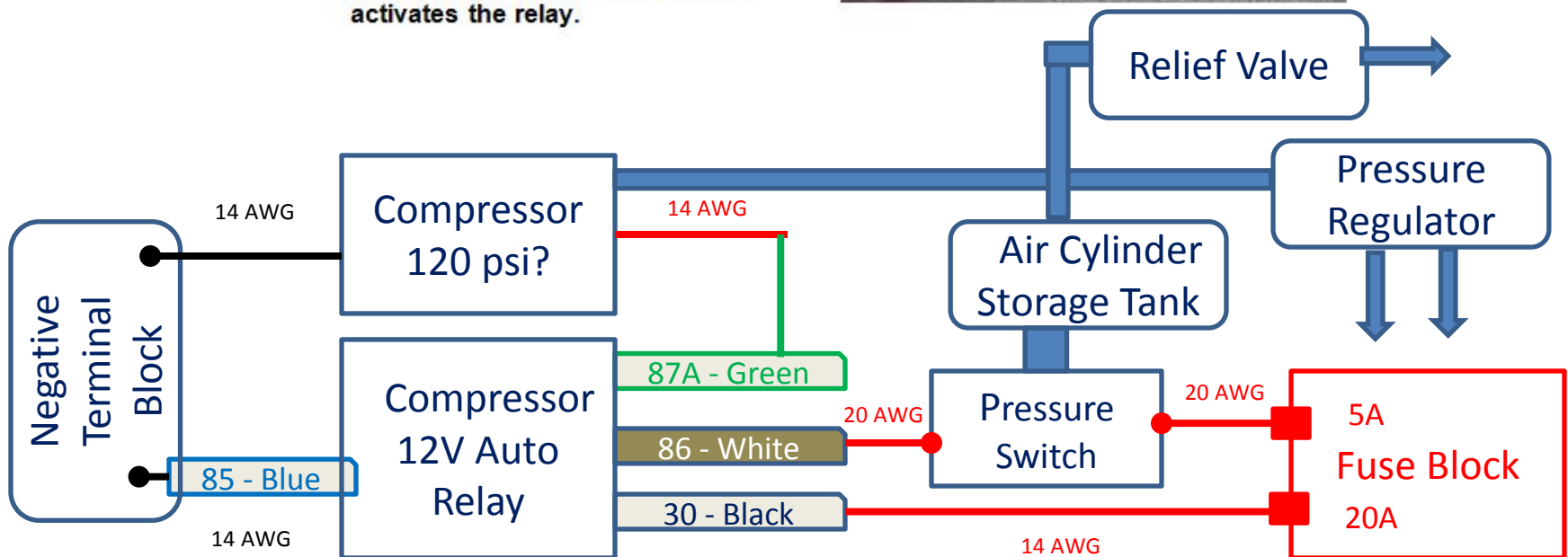
11. COMPRESSOR RELAY

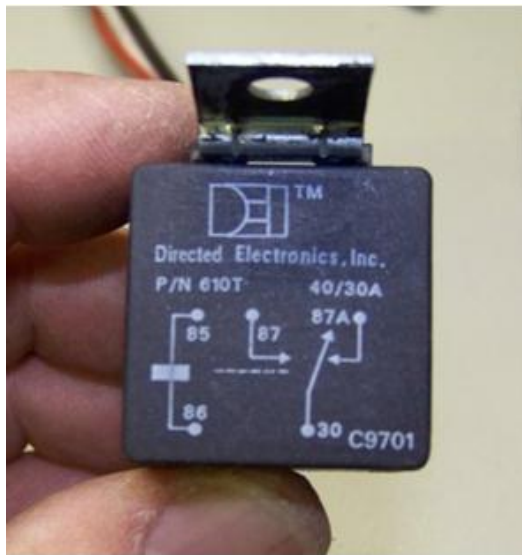
The compressor on your robot must attach to the 12V automotive relay. The relay is secured with Velcro tape to the bottom of the control box. [See Fig.40] Four wires coming from the relay will need to be attached:

- 1) the **white wire**, numbered 86 on the schematic drawing found on the side of the relay, needs to be connected to the pressure switch (the other side of the pressure switch attaches to the positive fuse block).
- 2) the **black wire**, numbered 30, needs to connect directly to the positive fuse block;
- 3) the **blue wire**, numbered 85, needs to connect to ground, so attach it to the negative (ground) terminal strip inside the control box; and
- 4) the **green wire**, numbered 87a, needs to be connected to the red wire coming from the compressor (the black wire from the compressor attaches directly to ground).

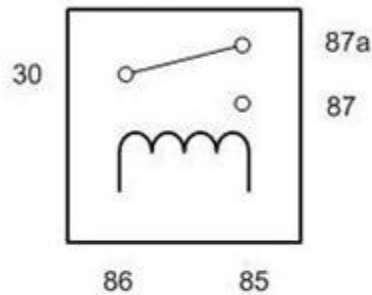


Figure 40. The Bosch relay that is used to control current to the Thomas compressor; the pressure switch activates the relay.

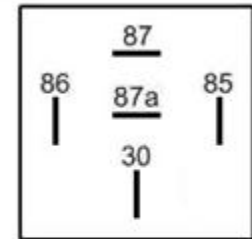




Relay Wiring Guide and
Terminal Numbers



Relay Pinout
[Viewed from Bottom]



- 30 - High Power Feed (Must be Fused!)
- 85 - Relay Coil Ground
- 86 - Relay Coil Feed (Trigger Wire)
- 87 - High Power Output - Normally Open Contact
- 87a - High Power Output - Normally Closed Contact

