



How To Connect The AIU To A Tortoise Switch Machine

Attached is a diagram showing how the AIU can connect to a Tortoise Switch Machine through a Latching Relay. The latching relay shown is an NTE 50 series latching relay.

The 12 V supply is for the relay magnets and the Switch Machine.

The latching relay uses magnets to hold the armatures in a position. When you apply current to one magnet it latches. When you apply it to the other it unlatches. The relay is shown in an unlatched state. You then wire the 12V supply to the appropriate positions on the relay such that when you select "Straight" on the DCS Handheld you energize a magnet and the relay "latches". When you select "Curved" it energizes the other set of magnets and "unlatches", thus you are using the AIU to latch and unlatch the relay and then wiring.

