



WRS Installation Guide

MRCB-10

Multi-Function Relay Control Board

MRCB-10 is a high performance, versatile printed circuit board assembly designed to control and protect up to ten electrical circuits. Included with the system are ten socketed relays and circuit breakers. MRCB-10 features LED indicators on each output for easy troubleshooting and circuit status. Programming of inputs is easily accomplished by placing jumpers as outlined on the diagram. Relays are rated at 30 amps per circuit, normally open; and 20 amps per circuit, normally closed. Soldered 70 amp version is also available.

Install as follows:

SELECT MOUNTING LOCATION:

Board assemblies must be installed in a dry location. Water damage to the MRCB-10 is not covered by our warranty.

RELAY POWER:

Attach power wire to bus bar (30) using a #10 ring lug. Torque fasteners to 36-40 in/lbs. Positive or negative circuits can be switched through relays.

APPLIANCE OUTPUTS:

Normally Open operation is accomplished by installing wires to the output studs with #10 ring lugs. Torque fasteners to 36-40 in/lbs.

Normally Closed operation is accomplished by installing wires to the output fast-ons with .250 female terminals.

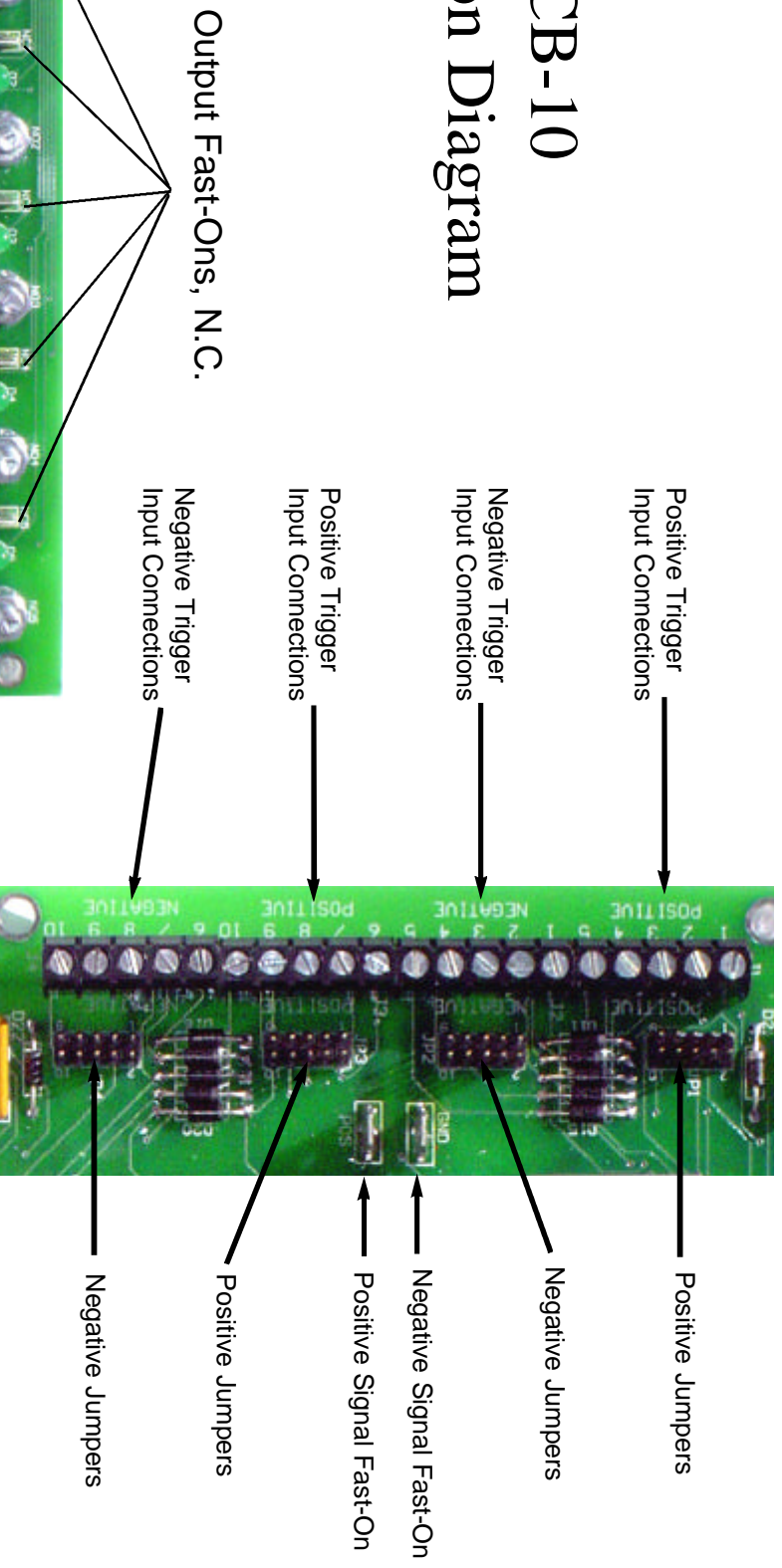
JUMPER SETTINGS:

By placing jumpers at the specified locations, inputs can be configured with positive and/or negative triggers. Strip and tin input trigger wires and connect as shown in the diagram. Install wires on positive connectors (JP1 & JP3) or negative connectors (JP2 & JP4) as required.

For **POSITIVE TRIGGER** apply 12-volt ground signal to male fast-on **“GND”**. Place jumpers on **Negative** terminals 1-10.

For **NEGATIVE TRIGGER** apply 12-volt positive signal to male fast-on **“POS”**. Place jumpers on **Positive** terminals 1-10.

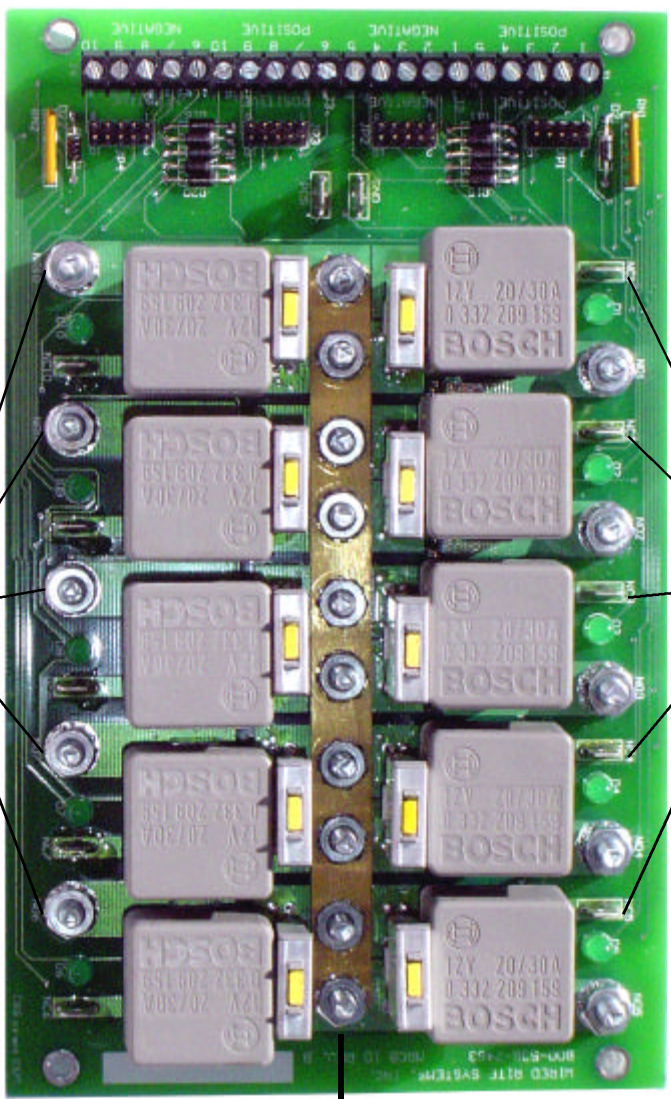
MRCB-10 Installation Diagram



Output Fast-Ons, N.C.

Bus Bar

Output Studs, N.O.



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