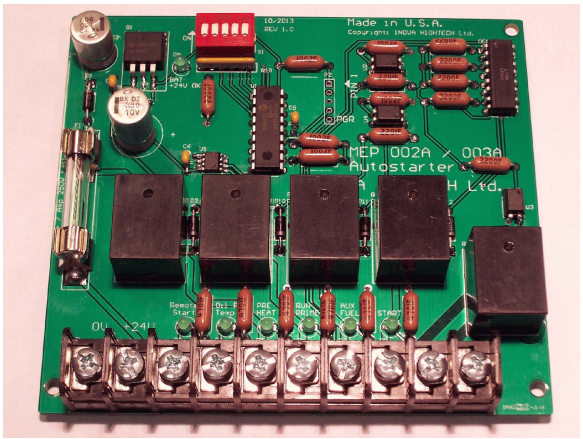
INOVA HIGHTECH Ltd.

MEP 802A/803A Auto Starter Wiring Supplement



Wiring Instructions
for the
MEP 002/003 Auto / Remote Starter
for the following MEP Power Generators:

MEP 802A/803A/811A

Rev. C 12/2018

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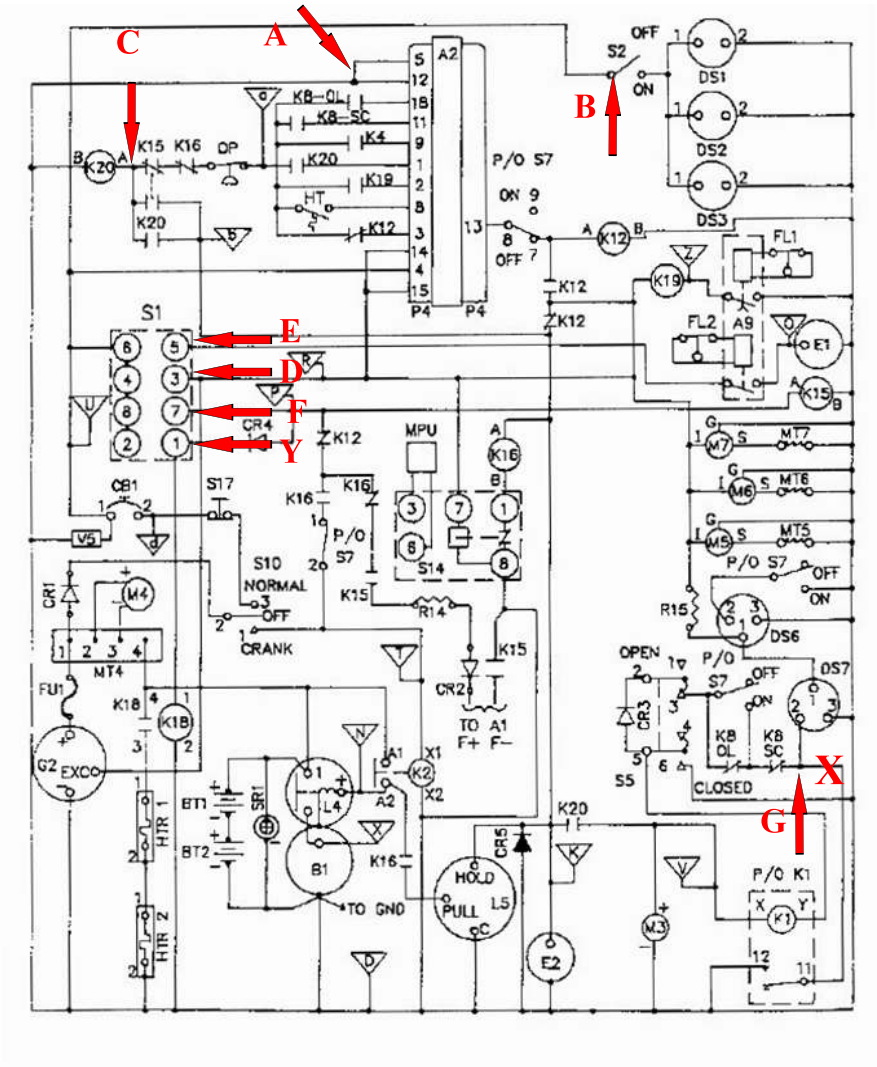
Wiring Connections between Control Cubicle Panel Switch S1, Switch S2, Relay K8, Relay K20, A1 - GND Stud and Auto-starter TB



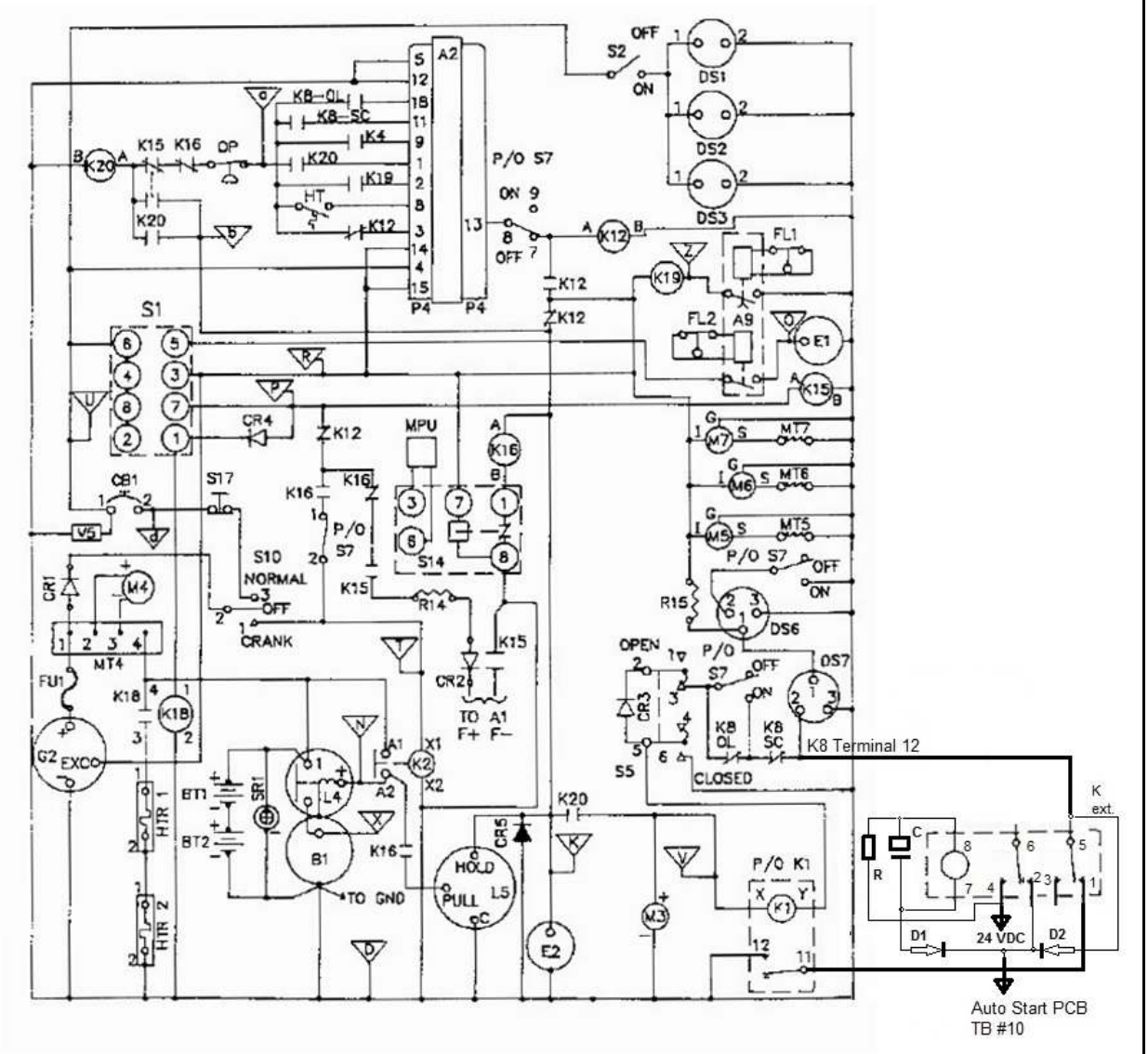
FROM	TO
Control Cubicle with DS 1, S 1, S 2, K 8, K 20	Autostarter TB Label Number
A A1 - GND Stud see pic below	0V TB # 1
B S 2 - 2	+24V TB #2
Please see Installation Manual MEP002A /003A	Remote Start TB# 3
C Relay K 20 Terminal A	Oil P / Temp TB #4
Y S 1 - 1	Pre Heat TB #5
D S 1 - 3	Run / Prime TB #6
E S 1 - 5	AUX Fuel TB #7
F S 1 - 7	Start TB #8
Jumper Jumper to TB #1 GND	COM TB #9
See Detail in Left Column G and X	NO TB #10
TB = Terminal Block	

G and X:

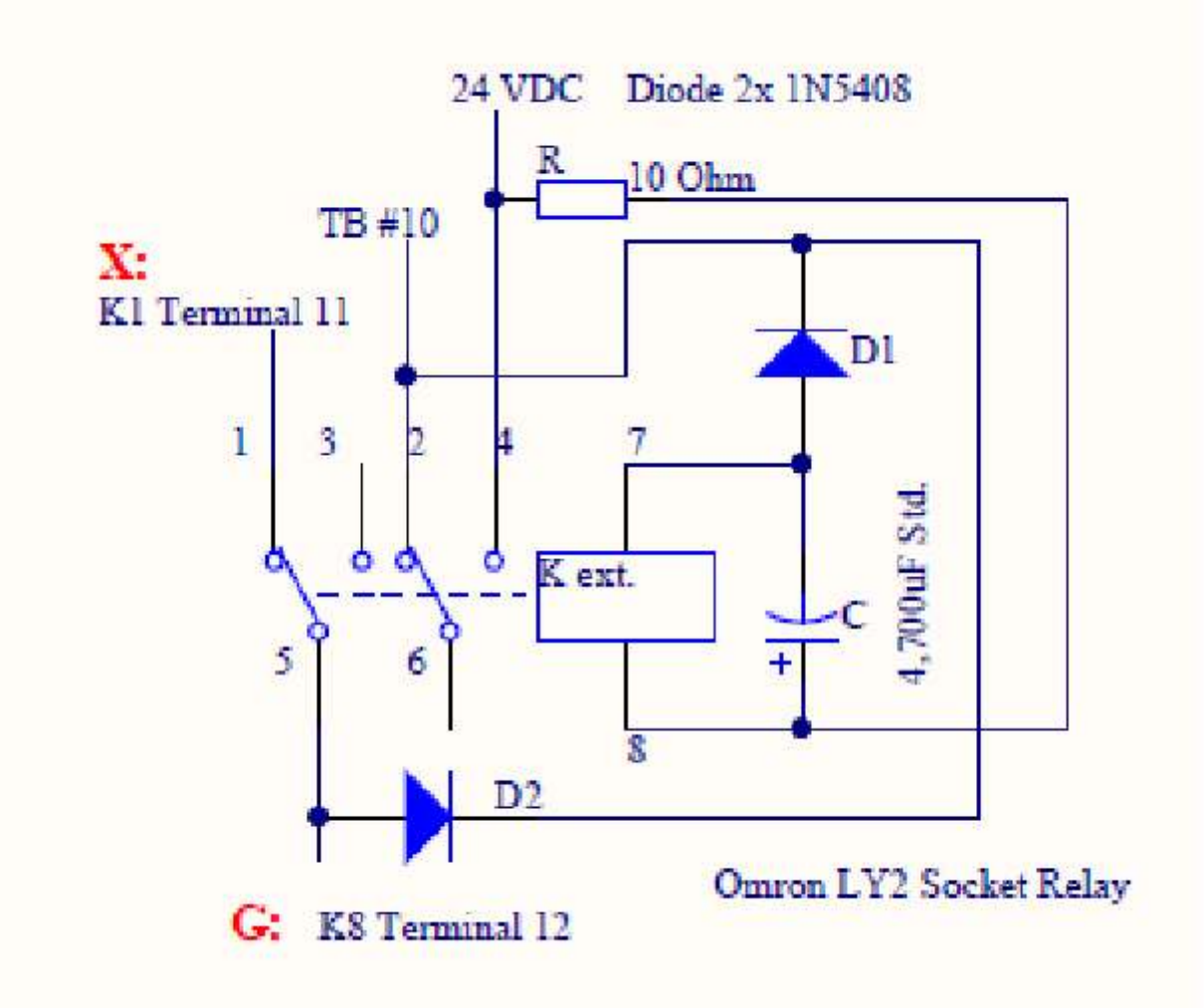
IF NO Kext is to be used, connect POINT G K8 Terminal 12 to TB#10 and disregard X

With Kext Relay, proceed to wiring diagram on next page.

Modified DC Wiring Diagram with Relay K ext.



G and X Wiring Diagram

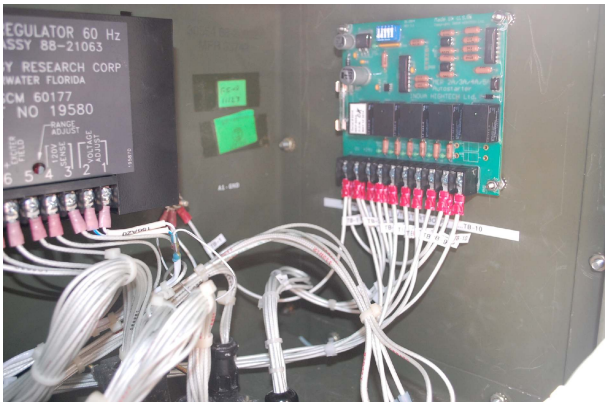


Detailed Pictures of the location of K8 with Terminal 12 for the Connection Points G and X is on Page 6
We recommend to proceed as follows:

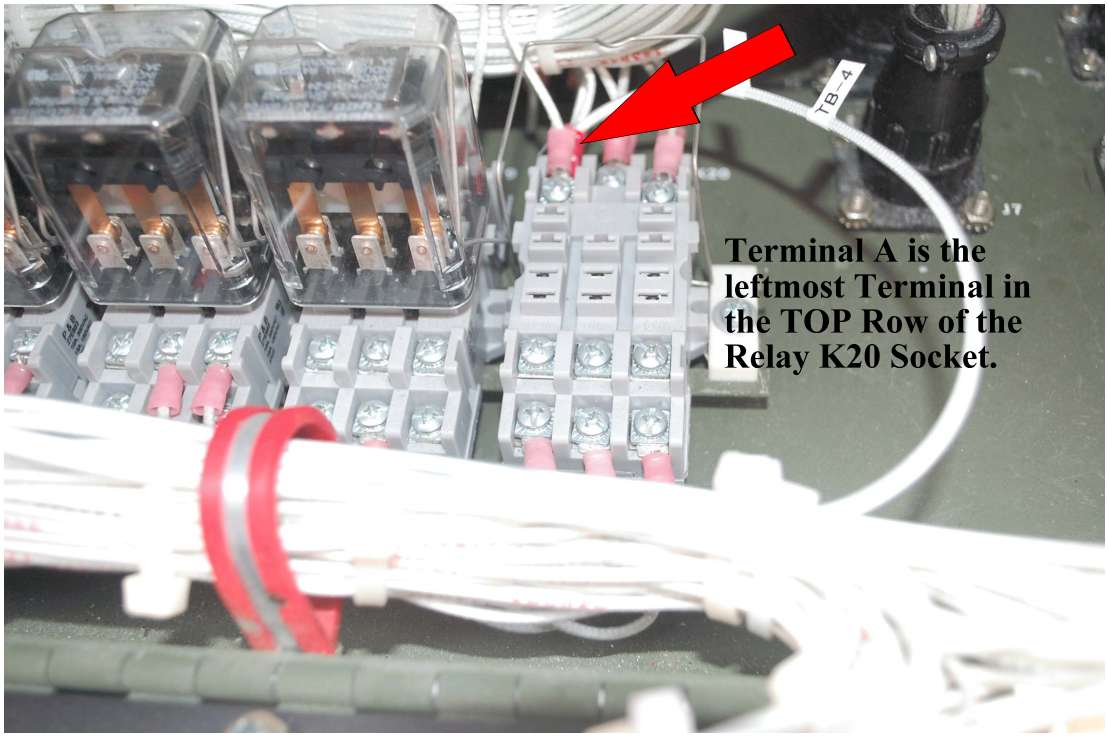
1. Mount the supplied external Omron Relay [Relay K ext.] next to the Auto Start PCB by drilling two holes and securing the Socket with the supplied Stainless Steel Screws and K Lock Nuts or mount additional DIN Rail.
2. There are two existing wires on K8 Terminal 12. One wire goes to Light Indicator DS 7 Terminal 2. Continuity test to find which one of the two wires goes to DS 7 Terminal 2.
   This wire has to stay on K8 Terminal 12!
3. Remove the other Wire which comes from K1 Terminal 11 on K8 Terminal 12 and extend this wire through the main wiring harness to Terminal 1 of Relay K ext. by the means of making a secure splice, which is mechanically stable and electrically fully insulated. We would recommend to use the "extension wire" with a ring lug and make the splice with a short #8 x 1/4" Stainless Steel Machine Screw with a K Lock Nut on the Ring Lug. Use Shrink Tubing or electrical tape!
4. Run a new wire from K8 Terminal 12 through the main wiring harness to Terminal 5 on Relay K ext.
5. Run a wire from Terminal 4 on Relay K ext. to TB #2 24 VDC
6. Run a wire from Terminal 2 on Relay K ext. to TB #10 on the Auto Start PCB
7. Make a long jumper wire and connect TB #9 to TB #1 or A1 - GND Stud on the Auto Start PCB

Note: The Relay Coil of Relay K ext. is polarized! Terminal 8 is positive and Terminal 7 is negative or 0 Volt / GND. See pdf "Relay K ext. 8xx.pdf" for additional information.

Suggested mounting Location for the Auto Start Kit PCB

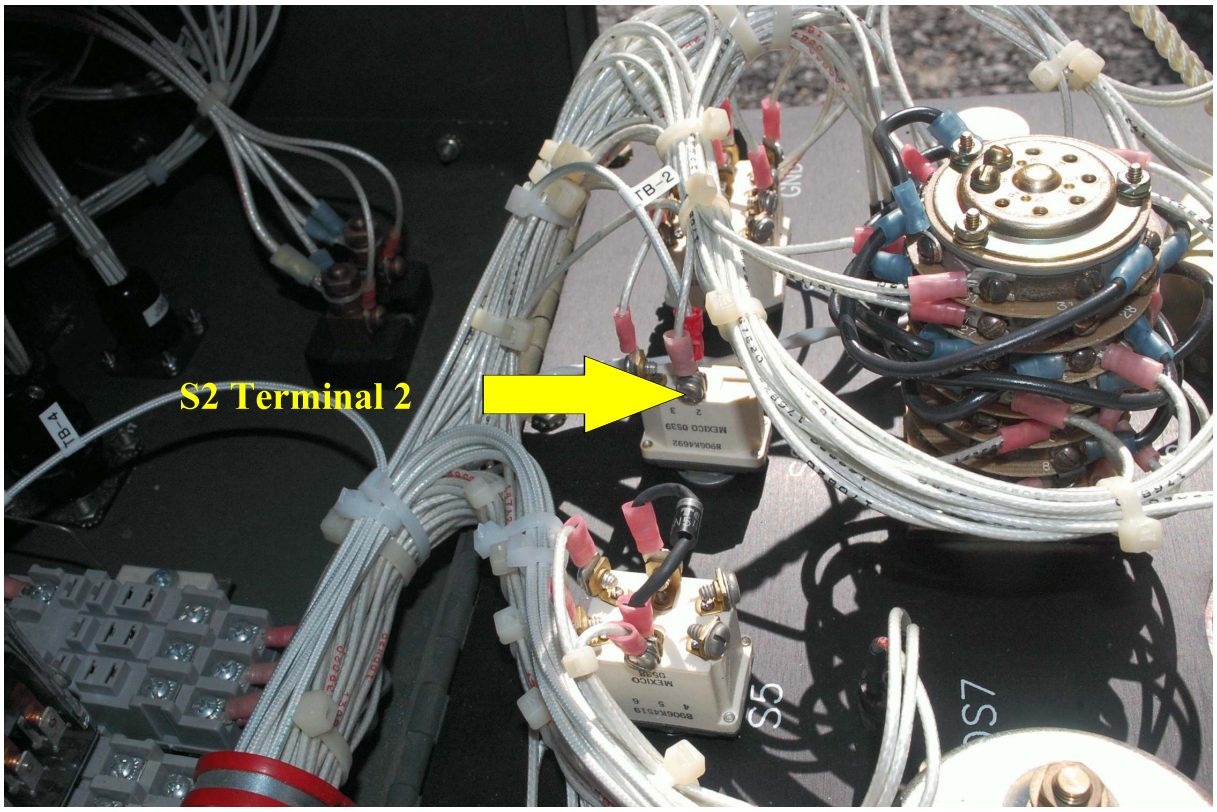


Location of the Socket of Relay K20 Terminal A [Connecting Point "C" Page 2]



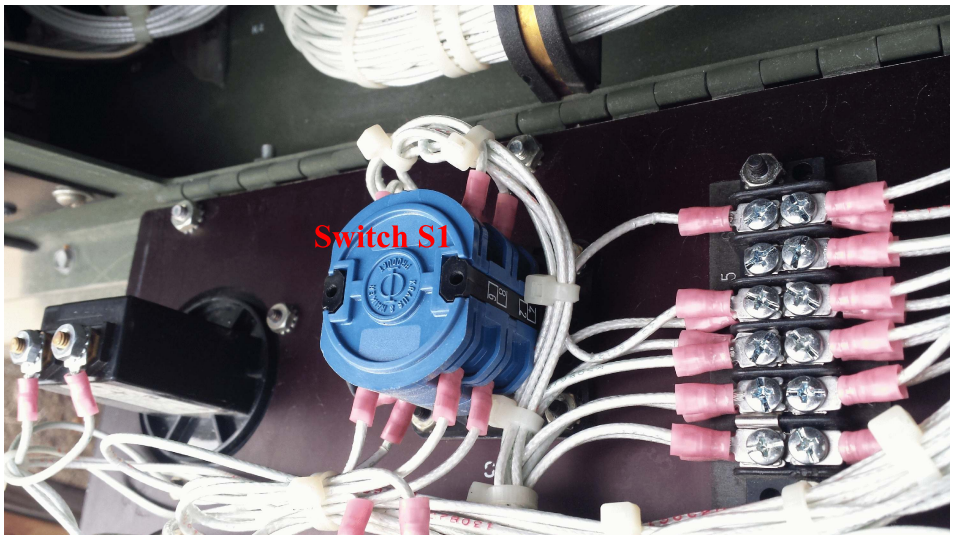
Location of Relay K8 Terminal 12 [Connection Point "G" and "X" on Page 2]

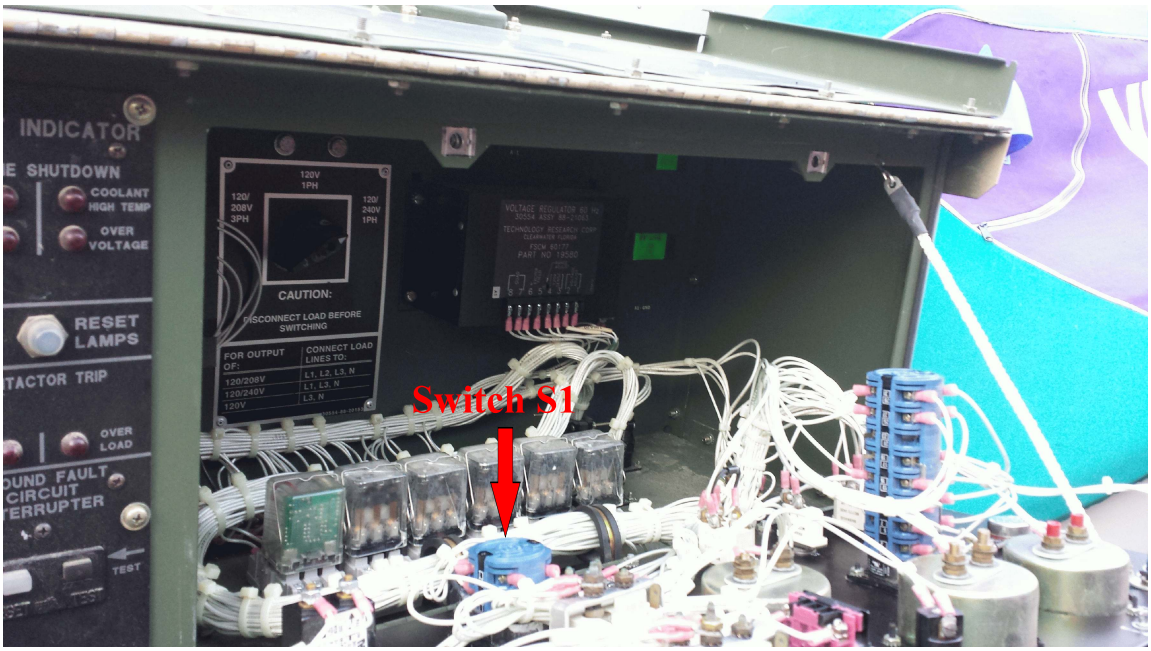
Location of Switch S2 Terminal 2 [Connection Point “B” on Page 2]



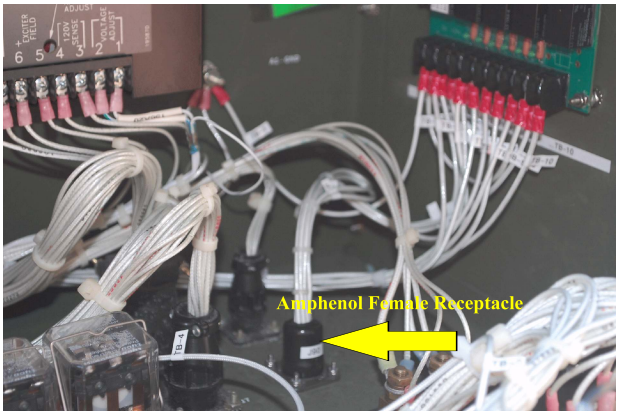
Wiring the Switch S1 to Terminal # 5; 6; 7; 8 on the Circuit Board:

Use the Ring Lug for the Switch Side and the Fork Cable Lug for the Circuit Board Terminal





Example of 2 Amphenol Connectors for remote wiring connection



The first Amphenol Receptacle is mounted in the bottom of the Control Cubicle and wired with the Auto Starter PCB

The Connector connects to the Receptacle on the bottom of the Control Cubicle and has an other receptacle on the other end mounted on the side wall of the unit

Exit point of the remote connection
Parts needed:
2 pcs Female Receptacle; 1 pcs Male Connector Straight; 1 pcs Male Connector 90° angled - minimum are two wires for +24 VDC and Input TB #3 which are switched externally

All Pictures are courtesy of Steve Marquess, Maryland