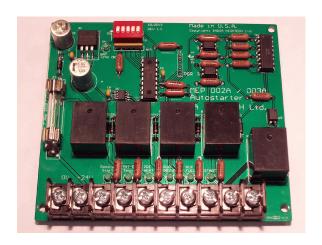
INOVA HIGHTECH Ltd.

MEP 804A/B Auto Starter Wiring Supplement



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

MEP 804A/B / 814A/B

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The Autostarter Board KIT for the MEP 804 A/B is the same as for the 002A/003A

Except that the 804 A/B version has a different Software loaded!

The 804 A/B Software affects/changes the following functions / Terminal Nomenclature:

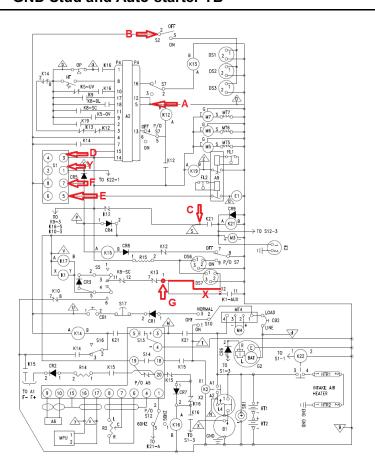
- 1. Dip Switch Functions, Settings and Timing
- 2. Different Connections between the Board and the Cubicle
- 3. Fixed Pre Heat of 30 sec or OFF
- 4. No ambient temperature dependent timing
- 5. The Oil P / TEMP Input will now additionally monitor Over Voltage and Low Fuel, besides Oil Pressure and Over Temperature
- 6. When the Software goes from START to RUN Cycle and the Engine Starts up properly and the Oil Pressure is over 20 PSI then both LED's OIL P will illuminate and stay On until the Unit shuts off!

All other instructions from the MEP 002A/003A Manual apply for these Gen Sets as well

DIP Switch Settings 804 A/B					
DIP SWITCH	Function	DIP SWITCH ON POSITION	DIP SWITCH OFF POSITION		
1	AUX FUEL	ON	OFF		
2	PRIME + AUX Fuel	15 sec	OFF		
3	PRE HEAT GLOW PLUGS	30 sec	OFF		

Warm Up and Cool Down Matrix					
DIP SWITCH 4	DIP SWITCH 5	WARM UP	COOL DOWN		
OFF	OFF	0 sec	1 Min		
OFF	ON	15 sec	2 Min		
ON	OFF	30 sec	3 Min		
ON	ON	45 sec	5 Min		

Wiring Connections between Control Cubicle Panel Switch S1, S2, TB4, TB5, TB6, A1 - GND Stud and Auto-starter TB

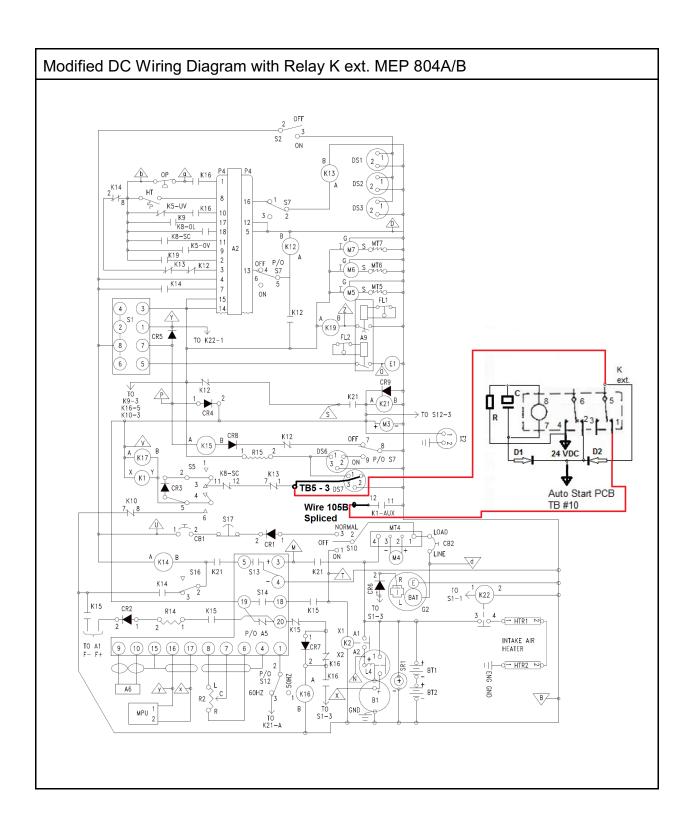


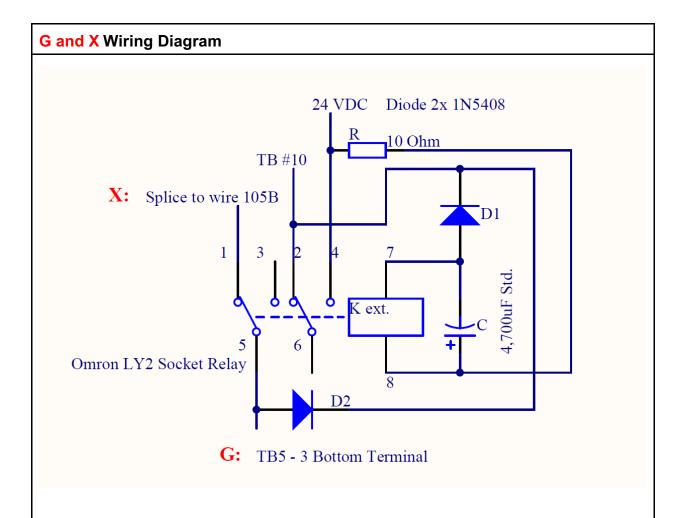
G and X: Please see wiring diagram on next page

FROM	то	
Control Cubicle with S 1, S2, A1, TB 4, TB 5, TB 6	Autostarter TB Label Number	
A A1 - GND Stud see pic below	0V TB #1	
В	+24V	
S 2 - 2	TB #2	
Please see Installation Manual MEP002A	Remote Start	
/003A	TB #3	
С	Oil P / Temp	
TB5 - 17	TB #4	
Υ	Pre Heat	
TB5 - 9	TB #5	
D	Run / Prime	
TB4 - 10	TB #6	
E	AUX Fuel	
S 1 - 5	TB #7	
F	Start	
TB6 - 8	TB #8	
Jumper	сом	
Jumper to TB #1 GND	TB #9	
See wiring diagram next page	NO	
Relay K Ext.	TB #10	
TB = Terminal Block		







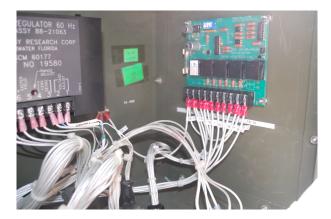


We recommend to proceed as follows:

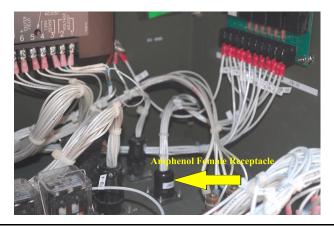
- 1. Mount the supplied external Omron Relay [Relay K ext.] next to the Auto Start PCB by drilling two holes and securing the Socket with the supplied Stainless Steel Screws and K Lock Nuts or mount additional DIN Rail.
- 2. There are three existing wires on TB5 3: Two on the Top Terminal and One on the Bottom Terminal
- 3. Remove the Wire 105B from TB5 3 Bottom Terminal 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 TB5 3 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. The Relay has a protection Diode to prevent damage in case of reversed polarity.

Suggested mounting Location for the Auto Start Kit PCB



Example of 2 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:

1 pcs Female Receptacle; 1 pcs Male Receptacle; 1 pcs Female 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