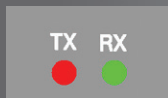
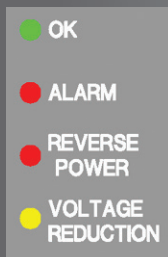
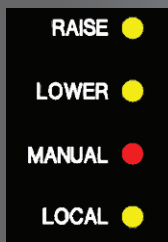
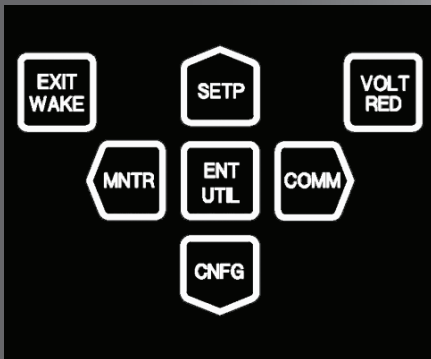


M-6200A Voltage Regulator Quick Start Guide



LCD CONTRAST: If HMI LCD is not visible, press the **MNTR** and **COMM** pushbuttons at the same time. The LCD will begin scrolling through the LCD Screen Contrast settings. When the display contrast is at the desired level, then press the **ENT** pushbutton twice to lock in that setting. Press **EXIT** to continue.



LCD SCREEN Pressing any pushbutton will wake up the HMI LCD and display the heading corresponding to the "Hot Button" label inside the pushbutton - WAKE, MNTR, SETP, CNFG, COMM, or UTIL.

EXIT/WAKE Pushbutton The **WAKE** Pushbutton is used to wake the LCD from sleep mode and start scrolling through a list of user programmed metered/calculated values. While navigating through the different HMI menus the **EXIT** pushbutton is used to:

- Exit a level to the next higher level
- Cancel data entry
- Display user lines

VOLT RED Pushbutton Activates the user defined Voltage Reduction Steps.

Shortcuts/Arrows

MNTR Access to the Monitoring Screens.

SETP Access to the Setpoints Screens.

ENT/UTIL Pushbutton Access to the Utilities screens and ENTER button.

While navigating through the different HMI menus the **ENT** pushbutton is used to:

- Enter the edit mode of a screen
- Store a setpoint or condition in memory
- Enter the sub heading data level
- Reset certain monitoring screens

CNFG Access to the Configuration Screens.

COMM Access to the Communication Screens.

RAISE LED Out of Band Low Voltage.

LOWER LED Out of Band High Voltage.

MANUAL LED Indicates automatic control is disabled and switched into manual mode.

LOCAL LED Indicates control is switched into Local mode. Cannot command control to raise or lower via SCADA.

COM1 TX/RX LEDS Indicates when control is transmitting and/or receiving data.

OK LED Illuminates to indicate the microcontroller is functioning properly.

ALARM LED Indicates any of the programmable alarms are activated.

REV PWR LED Indicates reverse power flow.

V/RED LED Indicates voltage reduction has been invoked.

- Continuous illumination and one periodic flash indicates Level 1 Voltage Reduction.
- Continuous illumination and two periodic flashes indicates Level 2 Voltage Reduction.
- Continuous illumination and three periodic flashes indicates Level 3 Voltage Reduction.

Neutral Light LED The (green) Neutral Light illuminates when the regulator is in the neutral tap position.



USB Port Used for Direct TapTalk® Communications Connection.

Smart Flash SD Card

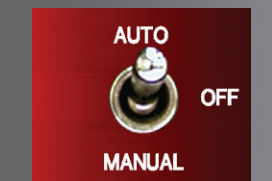


VOLTAGE SOURCE Switch Selects the internal (INT) voltage transformer input, or an external (EXT) voltage input and motor power source.

RAISE/LOWER Switch Allows local manual raise and lower commands to be initiated.



AUTO/OFF/MANUAL Switch Allows automatic or manual operation of the control. When in manual position, control channel is independent and outside microprocessor.



▲CAUTION: Do not reverse the ground and hot wires when connecting an external source. A 3 AG fuse (F1) is installed to protect the control from damage if these connections are accidentally reversed. With the VOLTAGE SOURCE switch in the EXT position, the sensing and motor power circuits are connected to the external Power binding post on the front panel. The unit can be tested using an external 120 V RMS source of proper polarity applied to these terminals. Testing can be accomplished by adjusting the amplitude of the external source.

EXTERNAL POWER Binding posts allow application of a 120 V RMS nominal voltage to the unit for test procedures.



METER OUT Binding posts allow reading of the input voltage when used in conjunction with the BIAS TEST VOLTAGE screen of the M-6200A Regulator Control.



SCADA CUTOUT (REMOTE/LOCAL) Allows local blocking of SCADA commands.

DRAG HANDS RESET Resets the tapchanger position indicator drag hands.

Cooper Control Cabinet Terminals

- TB1-8 G Ground
- TB1-10 VS Voltage Sense (120 Vac) (Note 1)
- TB1-9 VM Motor Supply (120 Vac) (Note 2)
- TB1-15 C1 Load Current Return
- TB1-14 C3 Load Current Polarity
- TB1-16 G Neutral Light Common
- TB1-5 R3 Raise Limit Switch
- TB1-6 L3 Lower Limit Switch
- TB1-11 NL Neutral Light
- TB1-12 DHR Drag Hands Reset
- TB2-5 HS Motor Seal-In Input

Notes:

1. Regulated voltage for load-side sense without Reverse Power Flow Option.
2. Regulated voltage for load-side sense with Reverse Power Flow Option.

Howard Industries Cabinet Terminals

- TB1-10 (Black) PS - Panel Power
- TB1-9 (Blue) MS - Motor Power
- TB1-8 (White) G - Ground
- TB1-15 (Yellow) CT- CO - (Return)
- TB1-14 (Orange) CT+ - C (Polarity)
- TB1-12 (Gray) DHR - Drag Hands Reset
- TB1-6 (Green) L - Lower Motor Winding
- TB1-5 (Red) R - Raise Motor Winding
- TB1-16 (Purple) NS - Neutral Switch In
- TB1-13 (Brown) OC - Operations Counter

Siemens Cabinet Plug Terminals

- TB1-16 U12 Neutral Light
- TB1-10 P2 Voltage Sense (120 Vac)
- TB1-14 C2 Load Current (Polarity)
- TB1-8 E Neutral
- TB1-15 E1 Load Current (Return)
- TB1-9 U2 Motor and Power (120 Vac)
- TB1-5 J Tapchanger Raise
- TB1-6 K Tapchanger Lower
- TB1-13 U10 Operations Counter
- TB1-12 U11 Drag Hands Reset

GE Cabinet Terminals (SM-3)

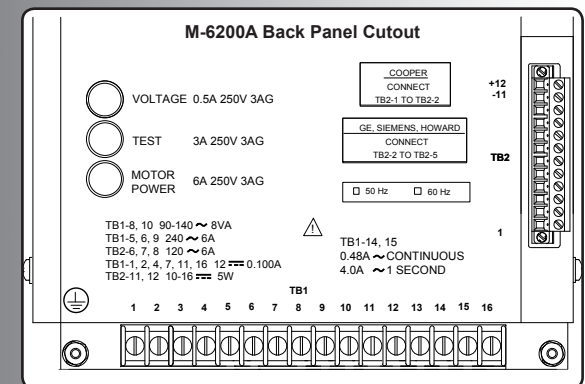
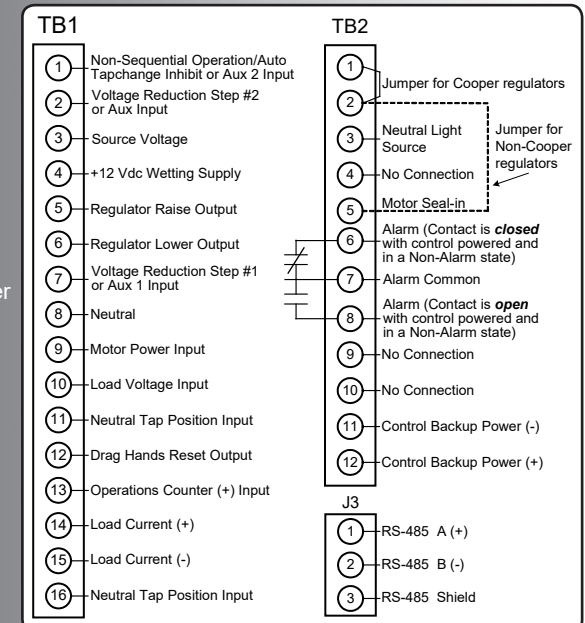
- TB1-8 P1-20 Return
- TB1-10 P2-22 Voltage In
- TB1-14 P1-7 Load Current (Polarity)
- TB1-15 P1-5 Load Current (Return)
- TB1-5 P1-13 Tapchanger Raise
- TB1-6 P1-14 Tapchanger Lower
- TB1-12 P1-10 Drag Hands Reset
- TB1-13 P1-11 Operations Counter
- TB1-16 P1-12 Neutral Light

GE Cabinet Terminals

- TB1-9 9 Power
- TB1-8 10 Return
- TB1-10 9 Power
- TB1-11 9 Power
- TB1-14 23 Load Current (Polarity)
- TB1-15 24 Load Current (Return)
- TB1-5 27 Tapchanger Raise
- TB1-6 28 Tapchanger Lower
- TB1-12 29 Drag Hands Reset
- TB1-13 30 Operations Counter
- TB1-16 31 Neutral Light

Notes:

1. Connect NN-10 to NN-26 for motor return.
2. Keep existing ground wire from NN-10 to the chassis installed.
3. See Regulator nameplate for connection of NNJ to NN-20, 21 or 22.

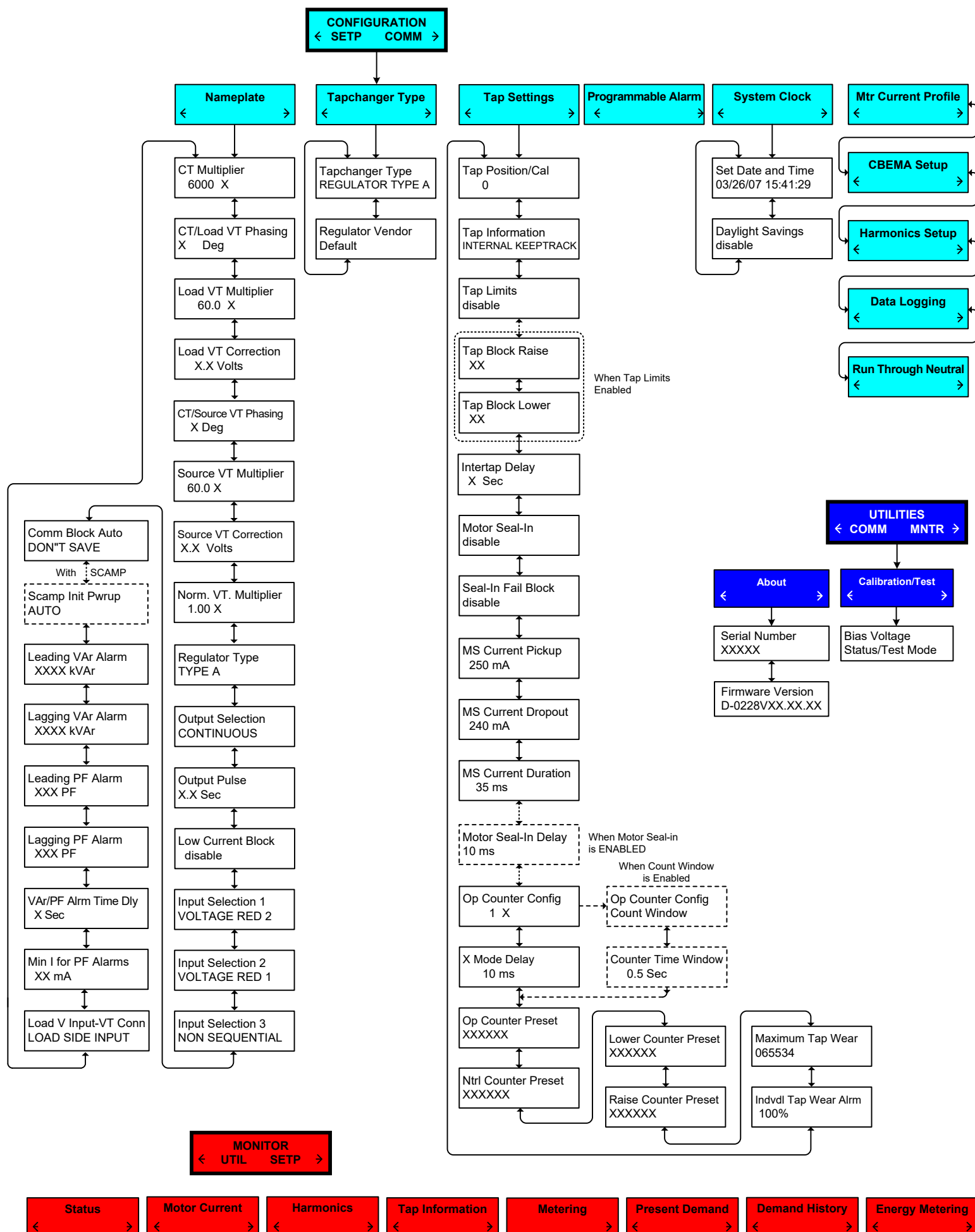


- ⚠ Death or severe electrical shock can occur. WARNING:** In no case should the line current circuit be interrupted with the regulator or transformer energized. Do not remove auxiliary current transformers without shorting the current inputs.
- ⚠ Exercise care during installation, operation and maintenance procedures** The equipment described in this manual contains voltages high enough to cause serious injury or death. Only qualified personnel should install, operate, test, and maintain this equipment. Be sure that all personnel safety procedures are carefully followed. Exercise due care when operating or servicing alone.
- ⚠ WARNING:** Remove Fuses Before Service.



Scan this QR Code for direct access to product support documents.





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