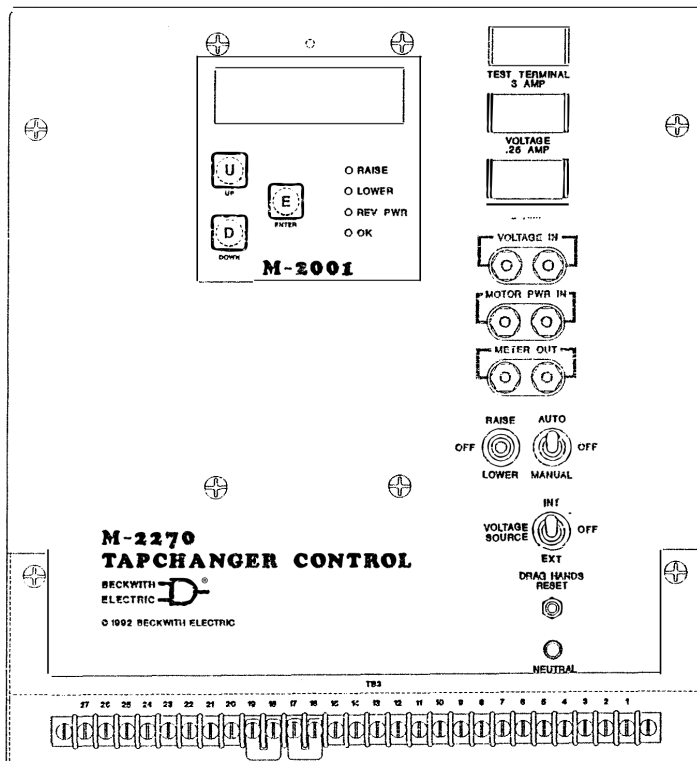


# Surface Mounting Kit M-2901

**Provides Surface Mounting  
of the M-2270 Adapter Panel**



- **Connects easily to the M-2270 Adapter Panel using a slide-on mounting bracket that has a 27-position terminal block, and includes four hex female stand-offs, four screws and appropriate wiring**
- **Provides mounting onto any flat surface at least 11-1/2" wide and 8" high**

The M-2901 is an adapter kit which permits surface mounting of the M-2270 Adapter Panel which is used with the M-2001 Digital Tapchanger Control. The M-2901 consists of a mounting bracket with a 27-position terminal block that slides on to the bottom of the M-2270. The kit includes four 3/8" hex female stand-offs, four 1/4"-20 x 1/2" screws, and twenty-seven wires-fifteen of which have lug nuts at one end. External connections are made to terminal block TB3 on the adapter kit bracket.

### INSTALLATION

Refer to the INSTALLATION chapter of the M-2270 Adapter Panel Application Guide for the M-2270's outline and hole drill dimensions. Slide the M-2901 Surface Mounting Kit's mounting bracket onto the bottom of the M-2270 so that the terminal block is facing outward. Using the wires provided on TB3, make the wiring connections to TBI and TB2 of the M-2270, as shown in the figure TB3 Connections for the M-2901 Surface Mounting Kit.

Mount the M-2001 Tapchanger Control to the back of the M-2270 Adapter Panel and secure with the four screws provided. The four screws are shipped in a drawstring bag which is attached to the adapter panel. Insert the plug from the adapter panel into the connector at the base of the M-2001.

Then install the M-2270 Adapter Panel (with the M-2001 Tapchanger Control and M-2901 Surface Mounting Kit) onto the flat surface, securing with the four hex female stand-offs and screws provided with the kit.

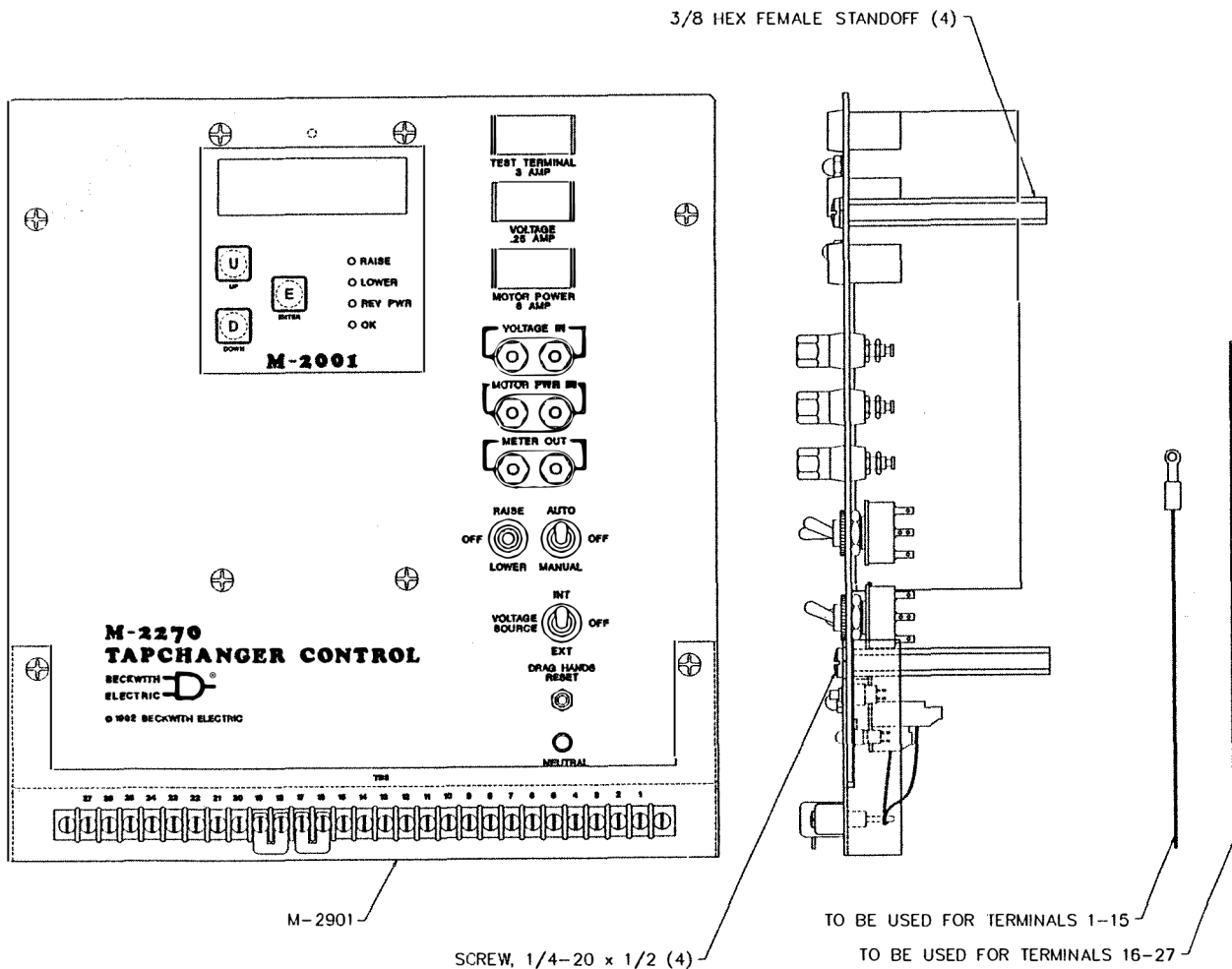


Figure 1 M-2901 Surface Mounting Kit  
 Mounted on M-2270 Adapter Panel with M-2001 Tapchanger Control

## INTERFACE

External connections are made to the 27-pin terminal block TB3 on the M-2901's mounting bracket, and provides standard functions, such as motor power input, voltage input, voltage reduction and tapchanger raise and lower, along with auxiliary functions, such as self-test alarm, user-programmable alarm and operations counter. TB3 has matching connections with the M-2270 Adapter Panel's TBI and TB2 pin numbers.

■ **NOTE:** When referencing the terminal block connections in the M-2270 Application Guide, use the M-2901 TB3 designations instead. For example: if the input for the voltage reduction step #1 is referenced as TBI-7 in the M-2270 Application Guide, instead use TB3-7 with the M-2901 Surface Mounting Kit.

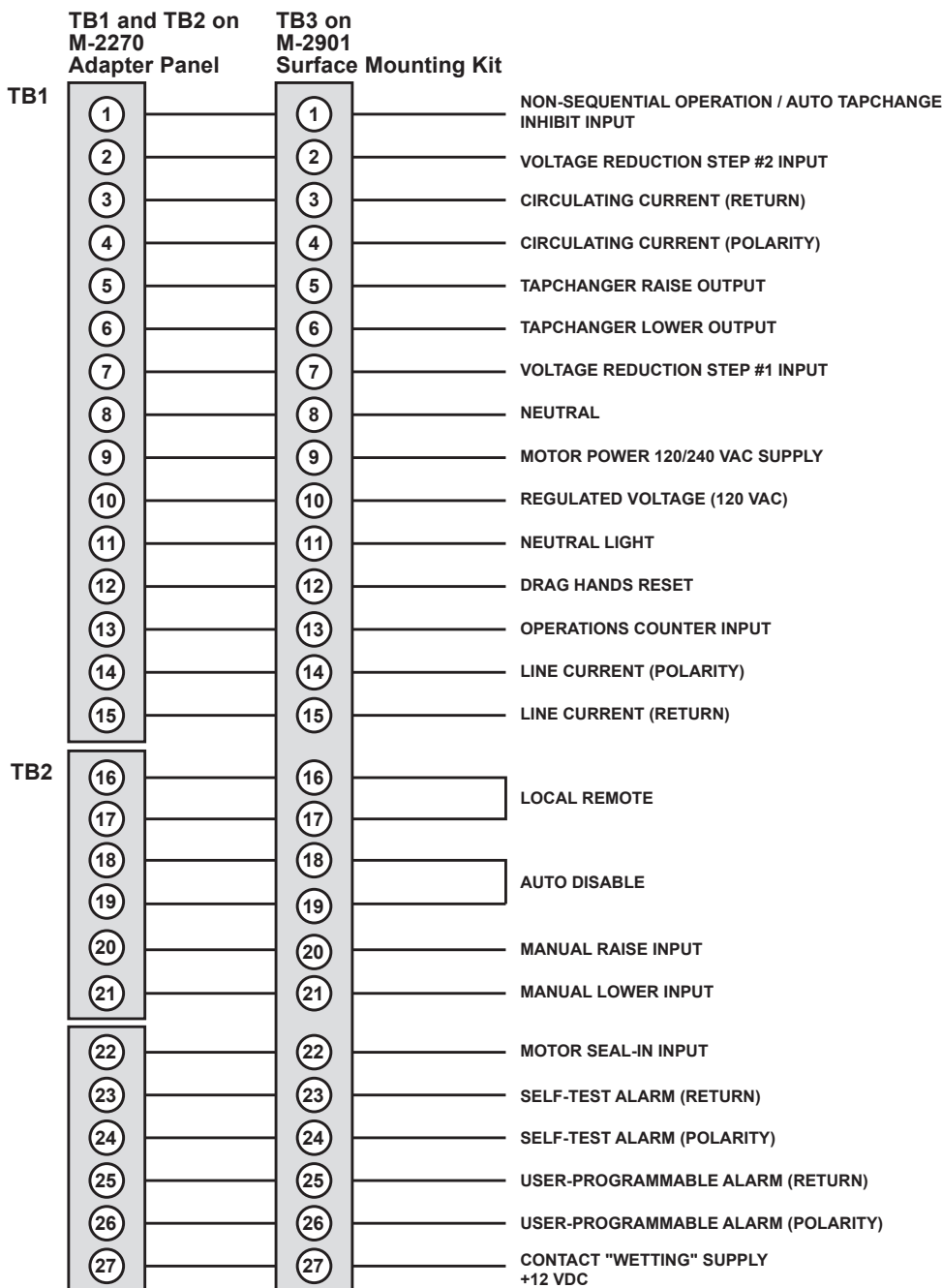


Figure 2 TB3 Connections for the M-2901 Surface Mounting Kit

## TESTING SPECIFICATIONS

- **High Voltage:** All input and output terminals will withstand 1500 Vac rms to chassis or instrument ground for one minute with a leakage current not to exceed 25 m.A, for all terminals to ground. Input and output circuits are electrically isolated from each other, from other circuits and from ground.
- **Surge Withstand Capability:** All input and output circuits are protected against system transients. Units pass all requirements of ANSI/IEEE C.37.90.1-1989 defining surge withstand capability.
- **Radiated Electromagnetic Withstand Capability:** All units are protected against electromagnetic radiated interference from portable communications transceivers as outlined in ANSI/IEEE C37.90.2-1987 defining radiated electromagnetic withstand capability.
- **Control Accuracy Specification:** All units comply with ANSI/IEEE C57.15-1986 defining control accuracy of operation.

## ENVIRONMENTAL

Temperature Range: Stated accuracies are maintained from -40° to +80° C. Humidity: Stated accuracies are maintained under 95% relative humidity (non-condensing). Fungus Resistance: A conformal printed circuit board coating inhibits fungus growth.

## PHYSICAL

### Size with M-2270 Adapter Panel:

Overall dimensions are 13-3/4" high x 5-13/16" wide x 3-9/16" deep (34.9 cm x 14.8 cm x 9.1 cm).

Approximate Weight: 1 lb. (0.45 kg).

**Approximate Shipping Weight:** 2 lbs. (0.91 kg).

**Approximate Weight with M-2270 Adapter Panel:** 8 lbs. (3.63 kg).

## WARRANTY

The M-2901 Surface Mounting Kit is covered by a five year warranty from date of shipment.

## TRADEMARKS

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*Specification subject to change without notice. Beckwith Electric has approved only the English version of this document.*

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