

# MURRAY

**Murray Electrical Products**

Siemens Industry, Inc.  
Norcross, Georgia U.S.A.

Item: Modular Metering, UVS Series  
Pc. No.: X 4646 REV 122909

For use with: ULT20-60, UBT20-50, UEW1216, UPB3, UPB6,  
UPB12, ULK1350, ULK1500, ULK2500

Accessories: UCP1216, ULT10SP, LX100FP  
Replacement Parts: UMCVR, UMBCVR

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## Installation Instructions



### DANGER

**Hazardous voltage. Will cause death, serious injury or substantial property damage.**

Turn off power supplying this equipment before working inside.

#### Note:

These instructions outline the recommended installation procedure. However, they do not cover all details or variations in equipment, nor do they provide for every possible contingency to be met in connection with installation. For questions or assistance, contact a qualified electrical contractor.

### WARNING

Failure to install and use this product in accordance with all applicable ratings, instructions and the National Electrical Code®, could result in death or serious injury to the installer or other persons, or substantial property damage.

Only persons familiar with the construction and operation of the equipment and the hazards involved should install this product. If there are any ratings, instructions or Code requirements which you do not understand, consult a qualified electrical contractor or inspector before installing this product.

### IMPORTANT

Petroleum-based chemical, solvent, paints of any type, water and various other contaminants can damage the interior components of this product. Do not allow these contaminants to contact the interior components. Be sure any cable connection to the top of the enclosure uses proper fittings and is permanently sealed to prevent water entry. If the meter socket is to supply a load center or other equipment at a lower elevation, connect the service cable or conduit to one of the lower knockouts of the load center or equipment to ensure rainwater leakage cannot damage the circuit breakers or other components.

### GENERAL

Refer to the label on the inside of the enclosure for product ratings, acceptable components and accessories, and specific application requirements. Meter sockets generally must be approved by the serving utility. Check prior to installation.

### MOUNT BOX - REMOVE KNOCKOUTS

First mount Line Trough Enclosure (Cat. Type ULT) using fasteners. Align Vertical Meter Stacks (Cat. Types UVS) with openings in the mounted Line Trough and attach with the provided hardware kits. Next, mount the Breaker Trough (Cat. Type UBT) aligning its openings with the mounted Vertical Meter Stacks. Attach with the provided hardware kits. Attach Endwalls and Coupling Kits as required with provided fasteners.

Required knockouts in the Breaker Trough and Endwalls (Cat. No. UEW1216) may be removed prior to mounting. On multiple ring knockout design, first remove center section by striking at point furthest from tie (Figure 1). Bend back and forth to break tie. Remove larger rings, one at a time, by prying with screwdriver and bending back and forth with pliers, as shown in Figure 2.

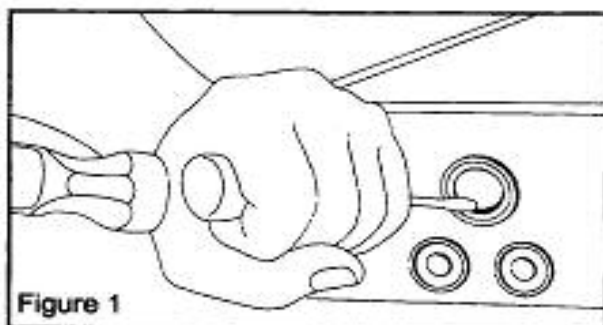


Figure 1

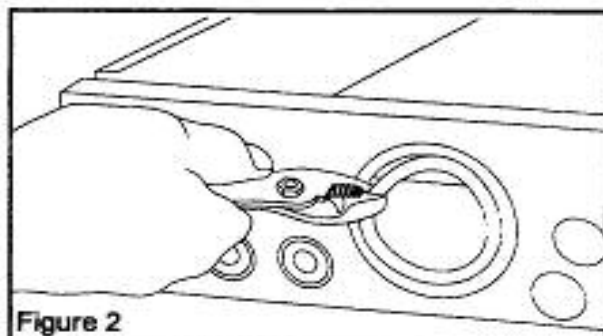


Figure 2

® National Electrical Code is a registered trademark of the National Fire Protection Association.

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Replacement Parts: UMCVR, UMBCVR

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## Installation Instructions



### DANGER

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working inside.

### INSTALL PHASE BLOCK ASSEMBLIES & LINE TERMINALS

Install appropriate Phase Block Assemblies (Cat. Type UPB) with provided fasteners in suggested locations (see attached schematic). Remove keps nut and washer from bolt and attach Line Terminals (Cat. Type ULK) as depicted in schematic for applicable wire entry. Torque keps nut with torque wrench to 210-230 lb-ins.

Use a 10" Line Trough Spacer Kit (Cat. No. ULT10SP) when required to ensure proper wire bending space.

### PULL LINE CABLE - WIRE TERMINALS

Utilize proper fittings to secure and provide proper protection to conductor insulation.

Ground enclosure by connecting it to a metal raceway or metallic cable sheath.

Pull applicable wire/cable into Line Trough and secure to appropriate Line Terminals. When aluminum conductors are used, application of a UL-listed conductor termination compound is recommended. Torque requirements for wire binding screws are as follows:

ULK1350	375 lb-in
ULK1500	500 lb-in
ULK2500	500 lb-in

Refer to markings inside device for additional terminal-tightening torque requirements.

Install Line Trough Cover and torque fasteners with torque wrench to 24-30 lb-ins.

### WIRE VERTICAL METER STACKS

Refer to wire diagram.

### INSTALLING & WIRING BRANCH BREAKERS

Install and wire correct type branch circuit breakers (Fig. 3) in accordance with wiring diagram label requirements. All electrical connections must be tightened to requirements as specified on wiring diagram label and on each branch circuit breaker label before energizing.

### INSTALL COVER ON VERTICAL STACKS

Fasten the Meter Socket Cover to the enclosure. Protect the interior parts of the socket from contaminants until the utility installs the meter.

### REMOVE TWISTOUTS-INSTALL COVER FOR LOAD TROUGH

Remove the required twistouts by up and down motion with pliers. Install Trim/Door assembly with fasteners provided. Torque fasteners with torque wrench to 24-30 lb-ins. All twistout openings must be closed with breakers or filler plates\*.

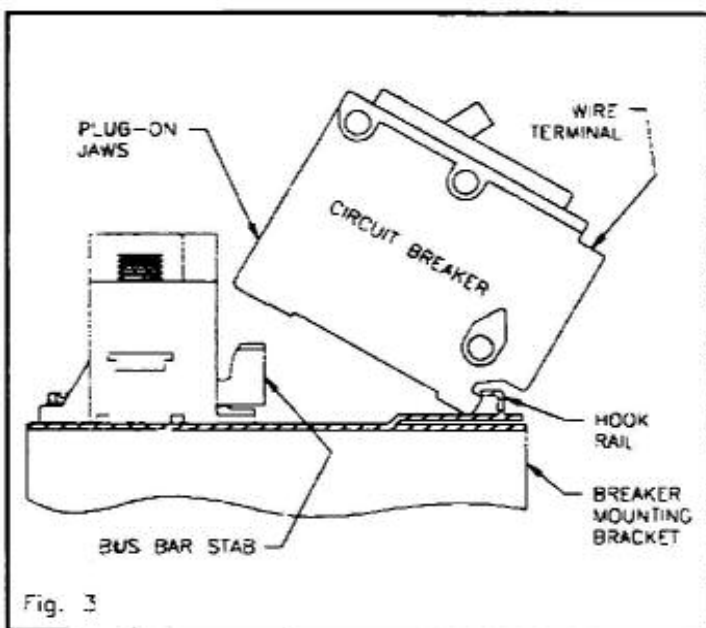
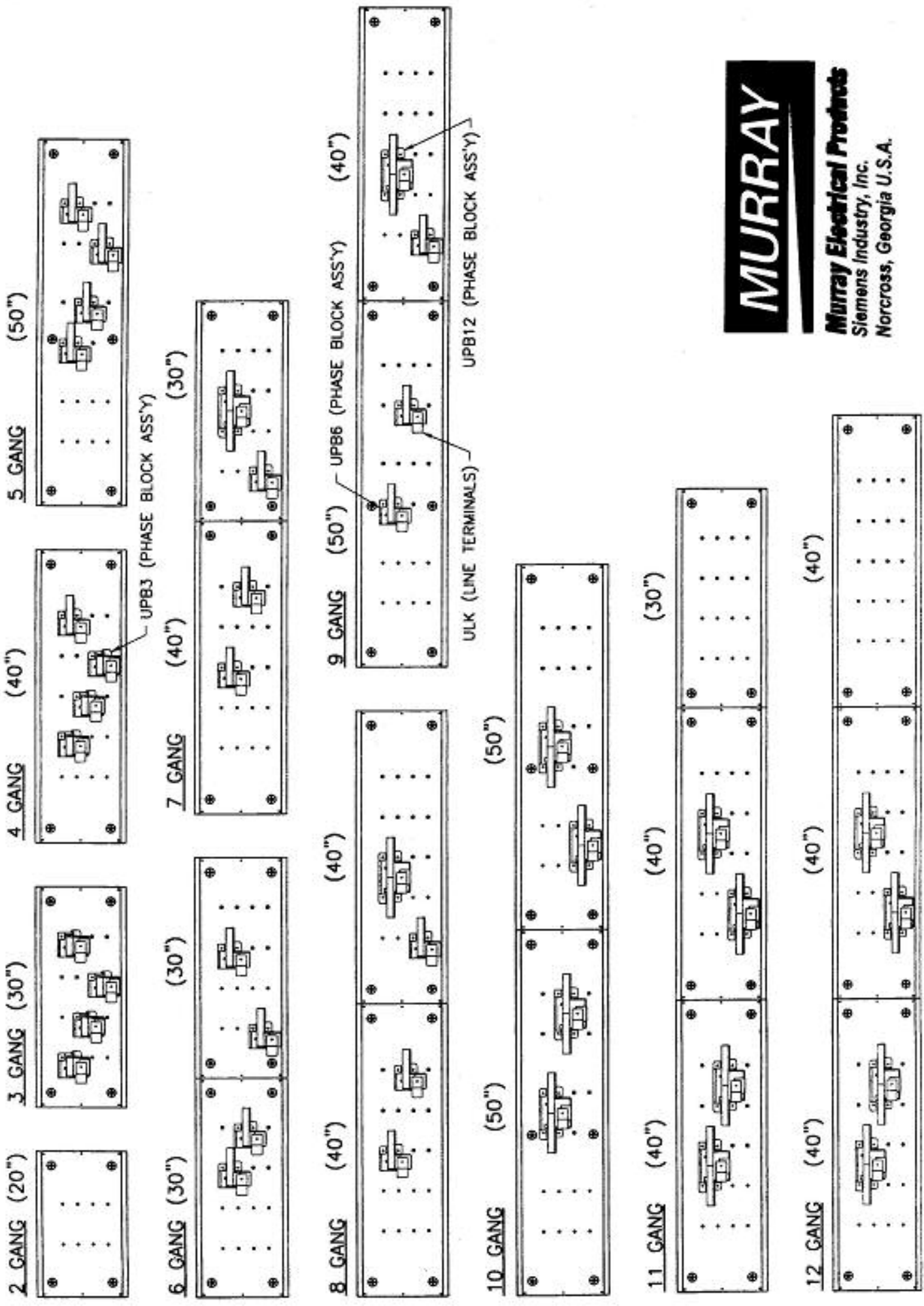


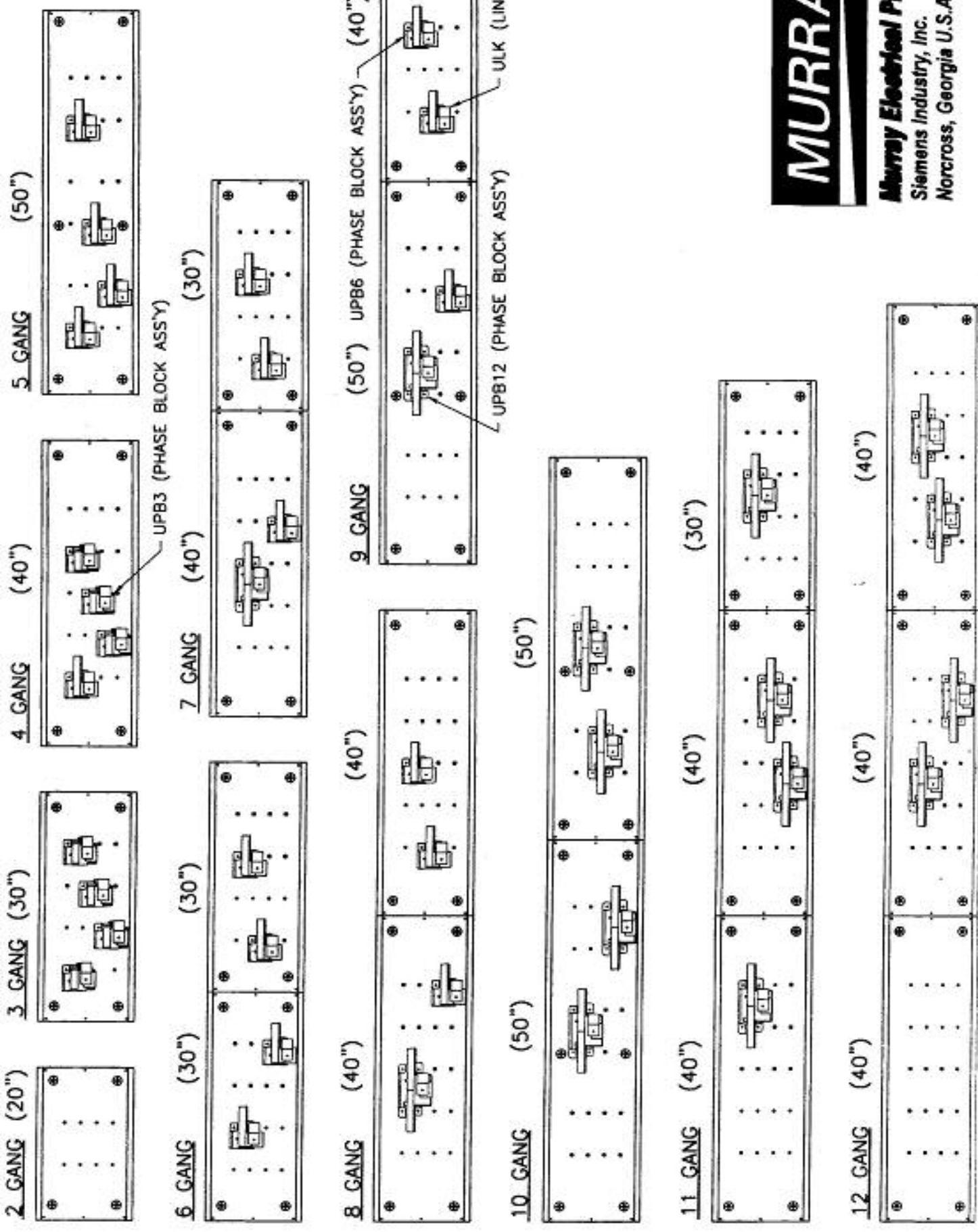
Fig. 3

\*Applicable accessories are listed on the wiring diagram.

# SCHEMATIC FOR WIRE ENTRY ON LEFT



# SCHEMATIC FOR WIRE ENTRY ON RIGHT



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