



# Meter Socket Load Centers

## Midwest MSLC Lug Service Barrier Installation Kit

### Introduction

This document details the installation of the Lug Service Barrier Kit for the MSLC. These barriers are required when the KR 4P breaker is used as a single service entrance main device inside MSLC.

Panel boards may be provided with service barriers factory installed. Barrier installation is required on the line side of the main device prior to energizing. These barriers are required to ensure isolation from live parts on the line side when the main breaker is turned off.

If a Lug Service barrier is removed from a circuit breaker for maintenance while the incoming line is shut off, it must be reinstalled prior to reenergizing to maintain isolation.

### Contents per Installation

#### MLSB – Midwest MSLC Lug Service Barrier

Description	Qty.
Lug Service Barrier	1
Bus Filler	2
Shutter	2

**NOTICE:** These instructions do not purport to cover all details or variations in equipment or to provide for every possible contingency to be met in connection with the installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purposes, the matter should be referred to the Midwest Electric Products. These instructions are intended for use by qualified personnel only.

### Hazard Classifications

The following important highlighted information appears throughout this document to warn of potential hazards or to call attention to information that clarifies a procedure.

Carefully read all instructions and become familiar with the devices before trying to install, operate, service or maintain this equipment.

**DANGER:** Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

**WARNING:** Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

**CAUTION:** Indicates that if the hazard is not avoided could result in minor or moderate injury.

**NOTICE:** Is used to notify of practices not related to personal injury.

**DANGER:** Electrical arc flash hazard. Personal protection equipment required. Turn off power to the equipment before working inside.

### Installation

A service entrance panel with a KR 4 Pole breaker as a main circuit breaker using a wire connection will require a Lug service barrier, two bus fillers and two Shutters.

No tools are required for the installation of Lug Service barriers. For the removal of bus service barrier pull the tab front away from the breaker. Lug Service barrier can be installed and removed before or after the wire installation is completed.

Figure 1 depicts the parts included in the kit.

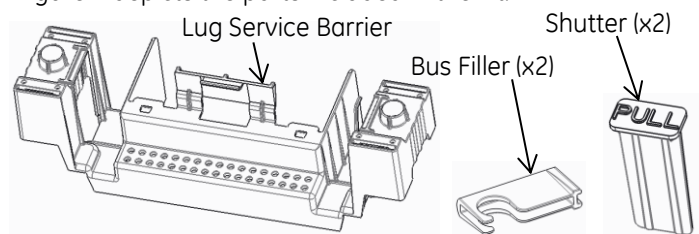


Figure 1: Lug Service Barrier, Bus Filler, Shutter

### Steps

Align the Lug service barrier with the line side lug of the KR 4P circuit breaker as shown in Figure 2.

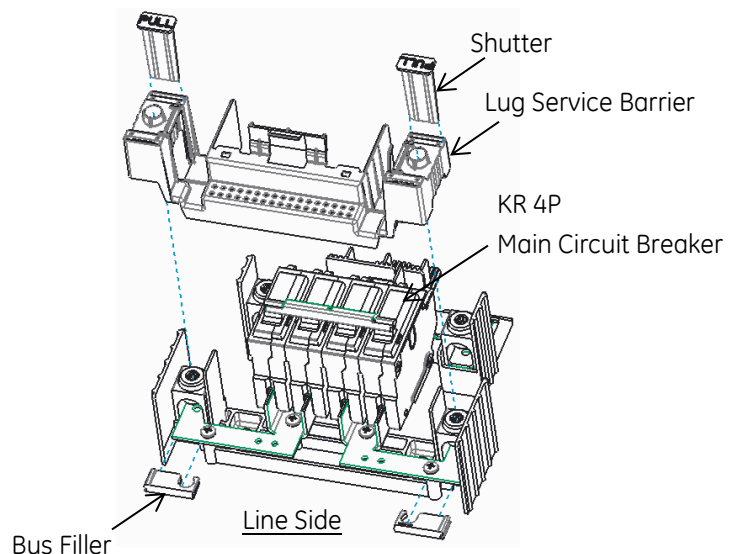


Figure 2: Lug Service Barrier Installation

Install the barrier by holding on the top and sliding the barrier down to cover the lug and lug until it fully seated into place at breaker rear side opening. Secure locking feature to breaker. Ensure the lug barrier is fully installed and in position as shown in Figure 3.

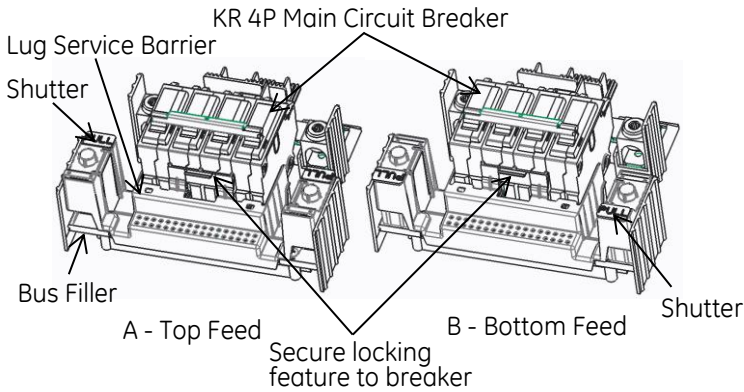


Figure 3: Fully Assembled Lug Service Barrier

Insert two bus fillers. Select top or bottom feed configuration then insert the two shutters (shutters to lug side opposite to wire entry) as shown in Figure 3.

**⚠ WARNING:** Bus service barriers must be correctly installed on the line side of a main device in MSLC to ensure isolation from live parts.

**⚠ WARNING:** Installing an incorrect size wire than the specified sizes for each circuit breaker frame will negate the barrier ability to protect personnel from exposed live components.

Table 1 shows the allowable wire sizes for hole on the lug.

Location	Conductors
Lug Hole	1 AWG to 300 MCM Cu/Al

Table 1: Service Barrier Wire Range

The wires must be stripped to the correct length to maintain isolation. Strip the wire to a maximum of 1.00 in.

After stripping wires to the required length, the wires can be installed as normal. The Lug service barrier must be installed to maintain electrical isolation from accidental contact. Refer Table 2 for Torque requirements.

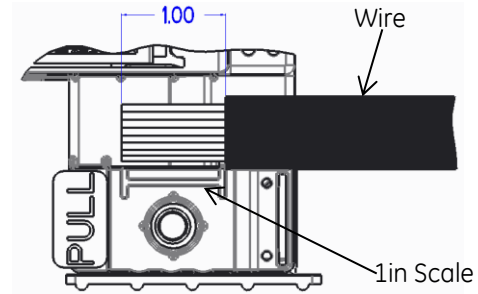


Figure 4: Maximum Wire Strip Length

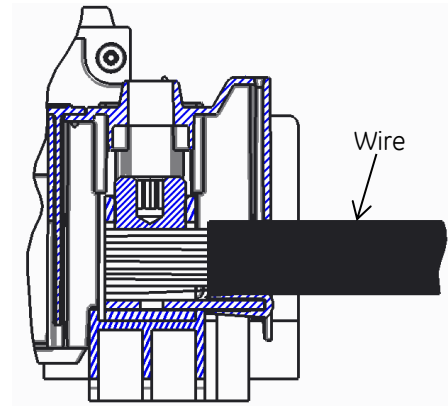


Figure 5: Wire Assembled

Wire Size	Screw Torque
1 AWG to 300 MCM Cu/Al	200 in-lb

Table 2: Torque values for lug screw

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