



Ferndale

Safety

Toll-Free: 855-326-1243
<https://www.ferndalesafety.com>

**APPLIES TO MODELS:
MO-2-L-CM**

BENCH GRINDER SAFETY SHIELDS

INSTALLATION GUIDE.



Thank you for your purchase of our bench grinder safety shield. You now have the highest quality safety product available. Ferndale Safety designed this guard to be easy to install and provide years of trouble-free service.

Mounting and Installation

Tools required for installation (Not Included):

- Drill
- #7 or 13/64" drill bit
- ¼-20 tap, tap wrench, and hex bolts
- Set of metric and SAE hex keys

For an electrical connection, you may need one or more of the following (Not Included).

- Wire strippers
- Utility knife
- Screwdrivers
- Hole saw or step drill
- Cable glands
- Cable connectors

Would you please make sure that you have everything included with your shipment? Remove all packing material from the arm assembly and shield.

1x Steel Rod

1x L-Shaped mounting arm and bracket (Includes interlock switch)

2x Polycarbonate or laminated safety glass screen assemblies (Varies with model)

1x LED power supply

Installation

1. Remove all packing material.
2. Mount the L-Shaped Arm by using the two bolt holes. (Fig 1.)
3. Insert the hex rod into the switch assembly.
4. Mount the two shields onto the hex rod. Tighten the set screw to fix the shield in place.
5. Ensure the stop is in place, so the shields do not fall. (Fig 2.)
6. Connect the safety interlock switch to your motor starter device.
7. Connect the LED lights to the power supply.

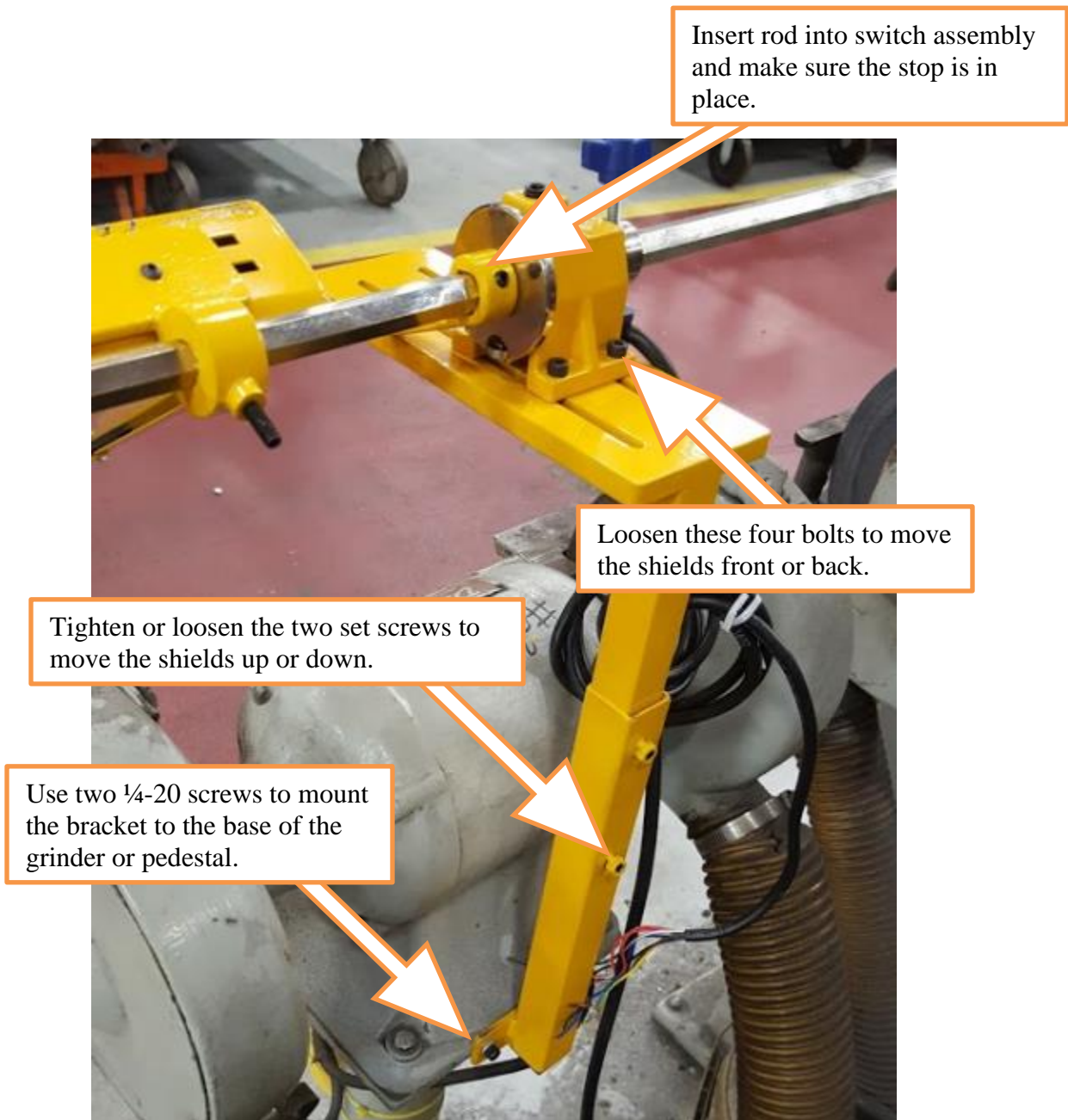


Fig. 1

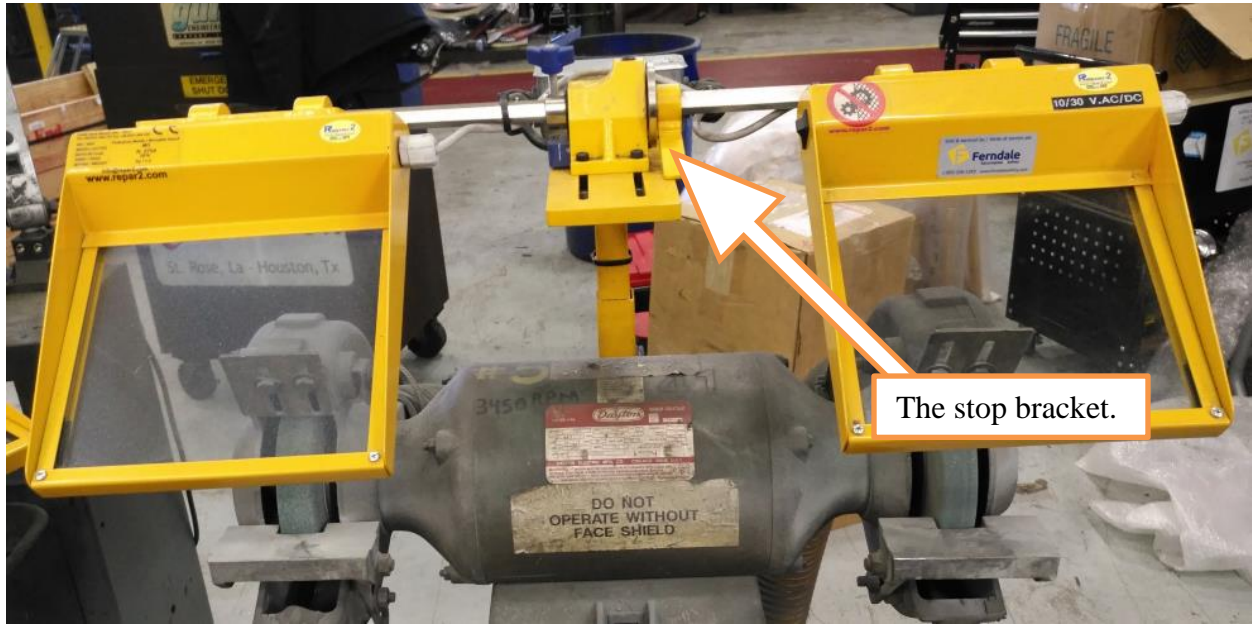


Fig. 2



Fig. 3

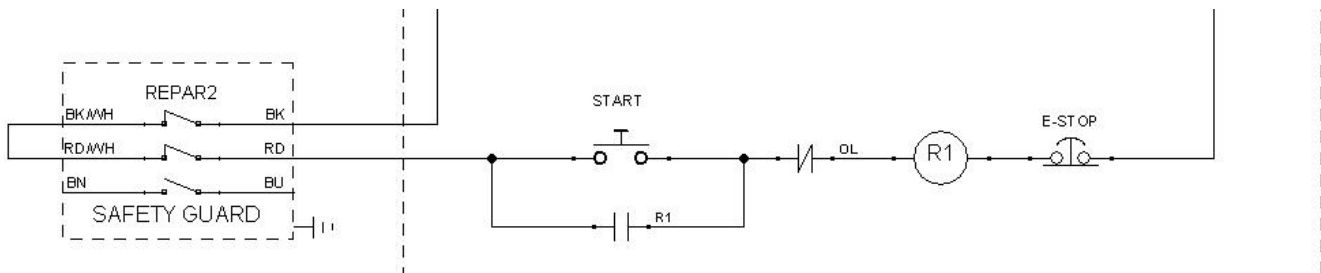
Electrical Connection

Technical specifications:

- Manufacturer: Telemecanique
- Metal enclosure switch, IP65-rated degree of protection conforming to IEC 60529
- Operational characteristics: 3A @ 240VAC, 0.1A @ 240VDC
- Two switches (model FB, FA, BF, AF) or three switches (model FBB, FAB, BBF, BAF) wired in series
- Seven-wire system (2x NC and 1x NO electrical contacts plus one ground wire)
- Mechanical durability: 100000 operating cycles
- Ambient air temperature conditions: -25 +70 °C

Wire color chart

Black	Black/White stripe	Contact Normally Closed #1
Red	Red/Red stripe	Contact Normally Closed #2
Brown	Blue	Contact Normally Open
Green		Ground



The above diagram gives an example of an electrical connection to the machine. The dotted square box indicates the interlock switches inside your safety guard. The area between the two dotted lines represents the internal wiring inside your machine, which may differ.

Danger! High Voltage

Voltages of up to 600 volts are present. When any machine panel is open, there is a risk of injury, electrocution, and death. A qualified technician must make electrical connections.

Operation

Block any flying debris, chips, or coolant when the shield is properly adjusted and maintained.

You can swing the shield or the whole arm assembly away when doing the setup. The spindle motor is disabled if the guard is wired correctly.

Maintenance

All non-polycarbonate portions of this safety guard may be wiped or washed clean with soap and water.

The polycarbonate shield has been selected to resist direct impact and flying debris. Do not clean or contact the polycarbonate shield with brake cleaner or any carbon-based oil or cleaning products. This will void the warranty and deteriorate the polycarbonate material.

In addition to the above indications,

- Remove chips regularly
- Wash with mild soap and water using a clean cloth
- A paste wax may be used to erase minor scratches and to help with cleaning.

Spare parts

Spare polycarbonate shields, electrical components, hardware, and other parts can be obtained by calling our toll-free line at 1-855-326-1243. Please have the model number of the safety guard when you call.

Spare parts available:

- Polycarbonate or glass shield
- Frame for polycarbonate shield
- Electrical switches
- Plastic hole plugs
- Set screws and bolts
- Felt pads for the rotation brake