INSTALLATION MANUAL FOR
PROTECTOR SERIES SHIELDS

IMPORTANT: PLEASE REVIEW THIS ENTIRE PUBLICATION BEFORE INSTALLING, OPERATING OR MAINTAINING THIS DEVICE.
PROTECTOR SERIES SHIELDS OFFERING

Protector Series Shields

SHIELD OPTIONS:

- Octagonal Shield
- Curved Shield
- 3 Sided Shield
- 2 Sided Shield
- Flat Shield
- Dual Flat Shield
- Octagonal Shield without Handle

ARM OPTIONS:  (Head and base pivots available)

- Single Pivot 3 Arms
- Double Pivot 3 Arms
- Single Pivot 2 Arms
- Double Pivot 2 Arms
- Direct Mount
- Interlock
- Non-Interlock

MOUNT OPTIONS:

- Left Mount
- Center Mount
- Right Mount
# SECTION 1 — IN GENERAL

Protector Series Shields

## Safety Precautions

<table>
<thead>
<tr>
<th>Danger</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>![DANGER]</td>
<td>Danger is used to indicate the presence of a hazard which WILL cause SEVERE personal injury if the warning is ignored.</td>
</tr>
<tr>
<td>![DANGER]</td>
<td>THIS SAFETY ALERT SYMBOL IDENTIFIES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, BE ALERT TO THE POSSIBILITY OF PERSONAL INJURY, AND CAREFULLY READ THE MESSAGE THAT FOLLOWS.</td>
</tr>
</tbody>
</table>

Efficient and safe machine operation depends on the development, implementation and enforcement of a safety program. This program requires, among other things, the proper selection of point-of-operation guards and safety devices for each particular job or operation, a thorough safety training program for all machine personnel, that includes instruction on the proper operation of the machine, the point-of-operation guards and safety devices on the machine, and a regularly scheduled inspection and maintenance program.

Rules and procedures covering each aspect of your safety program should be developed and published both in an operator’s safety manual, as well as in prominent places throughout the plant and on each machine. Some rules or instructions which must be conveyed to your personnel and incorporated into your program include:

- **Never** place your hands or any part of your body in this machine.
- **Never** operate this machine without proper eye, face and body protection.
- **Never** operate this machine unless you are fully trained, instructed, and have read the instruction manual.
- **Never** operate this machine if it is not working properly—stop operating and advise your supervisor immediately.
- **Never** tamper with, rewire or bypass any control or component on this machine.

A company’s safety program must involve everyone in the company, from top management to operators, since only as a group can any operational problems be identified and resolved. It is everyone’s responsibility to implement and communicate the information and material contained in catalogs and instruction manuals to all persons involved in machine operation. If a language barrier or insufficient education would prevent a person from reading and understanding various literature available, it should be translated, read or interpreted to the person, with assurance that it is understood.

For maintenance and inspection always refer to the OEM’s (Original Equipment Manufacturer’s) maintenance manual or owner’s manual. If you do not have an owner’s manual, please contact the original equipment manufacturer.

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SECTION 1 — IN GENERAL

Protector Series Shields

Safety References

OSHA’S ACT AND FEDERAL REGULATIONS

Since the enclosed equipment can never overcome a mechanical deficiency, defect or malfunction in the machine itself, OSHA (Occupational Safety and Health Administration) has established certain safety regulations that the employers (users) must comply with so that the machines used in their plants, factories or facilities are thoroughly inspected and are in first-class operating condition before any of the enclosed equipment is installed.


Duties:

Sec. 5. (a) Each employer —

(1) shall furnish to each of his employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to his employees;

(2) shall comply with occupational safety and health standards promulgated under this Act.

(b) Each employee shall comply with occupational safety and health standards and all rules, regulations, and orders issued pursuant to this Act which are applicable to his own actions and conduct.

2. OSHA’s Code of Federal Regulations, Subpart O, that an employer (user) must comply with include:

Section 1910.211 Definitions
Section 1910.212 (a) General Requirements for all Machines
Section 1910.219 (b)(1) Mechanical Power-Transmission Apparatus (Flywheel and Gear Covers)


4. OSHA’s Publications


These publications can be obtained by contacting:

US Department of Labor
Occupational Safety and Health Administration
Washington, DC 20210 (202) 219-5257

ANSI SAFETY STANDARDS FOR MACHINES

The most complete safety standards for machine tools are published in the ANSI (American National Standards Institute) B11 series. The following is a list of each ANSI B11 Standard available at the printing of this publication.

B11.1 Mechanical Power Presses
B11.2 Hydraulic Presses
B11.3 Power Press Brakes
B11.4 Shears
B11.5 Iron Workers
B11.6 Lathes
B11.7 Cold Headers and Cold Formers
B11.8 Drilling, Milling and Boring
B11.9 Grinding Machines
B11.10 Sawing Machines
B11.11 Gear Cutting Machines
B11.12 Roll Forming and Roll Bending
B11.13 Automatic Screw/Bar and Chucking
B11.14 Coil Slitting Machines
B11.15 Pipe, Tube and Shape Bending
B11.16 Metal Powder Compacting Presses
B11.17 Horizontal Hydraulic Extrusion Presses
B11.18 Coil Processing System
B11.19 Performance Requirements for Risk Reduction Measures: Safeguarding and Other Means of Reducing Risk
B11.20 Safety Requirements for Manufacturing Systems/Cells
B11.21 Lasers
B11.22 CNC Turning Machines
B11.23 Machining Centers
B11.26 Functional Safety
B11/TR1 Ergonomic Considerations for the Design, Installation and Use of Machine Tools
B11/TR2 Mist Control
B11/TR3 Hazard ID and Control
B11/TR4 Control Reliability
R15.06 Robotic Safeguarding

These standards can be purchased by contacting:

American National Standards Institute, Inc.
11 West 42nd Street
New York, New York 10036
(212) 642-4900

OR

Association of Manufacturing Technology (AMT)
7901 Westpark Drive
McLean, Virginia 22102-4269
(703) 827-5211
SECTION 1 — IN GENERAL

NATIONAL SAFETY COUNCIL SAFETY MANUALS
AND DATA SHEETS

Other good references for safety on machine tools are the National Safety Council’s Safety Manuals and Data Sheets. These manuals and data sheets are written by various committees including the Power Press, Forging and Fabricating Executive Committee. The following publications are available for all types of machines:

MANUALS

Safeguarding Concept Illustrations - 6th Edition
Forging Safety Manual

DATA SHEETS

Bench and Pedestal Grinding Wheel Operations
12304-0705
Boring Mills, Horizontal Metal 12304-0269
Boring Mills, Vertical 12304-0347
Coated Abrasives 12304-0452
Cold Shearing Billets and Bars in the Forging Industry
12304-0263
Degreasing (Liquid), Small Metal Parts 12304-0537
Dies, Setup and Removal of Forging Hammer
12304-0212
Drill Presses, Metalworking 12304-0335
Drills, Portable Reamer 12304-0264
Drop Hammers, Steam 12304-0267
Electrical Controls for Mechanical Power Presses
12304-0265
Forging Hammer Dies, Setup and Removal of
12304-0716
Forging Presses, Mechanical 12304-0268
Gear-Hobbing Machines 12304-0362
Handling Materials in the Forging Industry 12304-0551
Kick (Foot) Presses 12304-0363
Lathes, Engine 12304-0264
Milling Machines, Metalworking 12304-0364
Planers, Metal 12304-0383
Power Press (Mechanical) Point-of-Operation
Safeguarding, Concepts of 12304-0710
Power Press Point-of-Operation Safeguarding:
Two-Hand Control and Two-Hand Tripping
Devices 12304-0714
Power Press Point-of-Operation Safeguarding:
Type A and B Movable Barrier Devices 12304-0712
Power Press Point-of-Operation Safeguarding:
Point-of-Operation Guards 12304-0715
Power Press Point-of-Operation Safeguarding:
Presence Sensing Devices 12304-0711
Power Press Point-of-Operation Safeguarding:
Pullbacks and Restraint Devices 12304-0713
Power Presses (Mechanical), Inspection and
Maintenance of 12304-0603
Power Presses (Mechanical), Removing Pieceparts
from Dies in 12304-0534
Power Press, Setting Up and Removing Dies
12304-0211
Press Brakes 12304-0119
Robots 12304-0717
Saws, Metal (Cold Working) 12304-0584
Shapers, Metal 12304-0216
Shears, Alligator 12304-0213
Shears, Squaring, Metal 12304-0328
Upsetters, 12304-0721

These manuals and data sheets can be purchased by contacting:

National Safety Council
1121 Spring Lake Drive
Itasca, IL 60143-3201
(708) 295-1121

For additional safety information and assistance in devising, implementing or revising your safety program, please contact the machine manufacturer, your state and local safety councils, insurance carriers, national trade associations and your state’s occupational safety and health administration.

Warranty, Disclaimer and Limitation of Liability

WARRANTY

Rockford Systems, LLC warrants that this product will be free from defects in material and workmanship for a period of 12 months from the date of shipment thereof. ROCKFORD SYSTEMS LLC’S OBLIGATION UNDER THIS WARRANTY IS EXPRESSLY AND EXCLUSIVELY LIMITED to repairing or replacing such products which are returned to it within the warranty period with shipping charges prepaid and which will be disclosed as defective upon examination by Rockford Systems, LLC. This warranty will not apply to any product which will have been subject to misuse, negligence, accident, restriction and use not in accordance with Rockford Systems, LLC’s instructions or which will have been altered or repaired by persons other than the authorized agent or employees of Rockford Systems, LLC. Rockford Systems, LLC’s warranties as to any component part is expressly limited to that of the manufacturer of the component part.

DISCLAIMER

The foregoing Warranty is made in lieu of all other warranties, expressed or implied, and of all other liabilities and obligations on the part of Rockford Systems, LLC, including any liability for negligence, strict liability, or otherwise, and any implied warranty of merchantability or fitness for a particular purpose is expressly disclaimed.

LIMITATION OF LIABILITY

Under no circumstances, including any claim of negligence, strict liability, or otherwise, will Rockford Systems, LLC be liable for any incidental or consequential damages, or any loss or damage resulting from a defect in the product of Rockford Systems, LLC.
SECTION 1 — IN GENERAL
Protector Series Shields

KSC046

SUGGESTED PROCEDURE FOR MOUNTING THIS SIGN
THE PURPOSE OF THIS SIGN IS TO ADEQUATELY WARN ALL PERSONNEL OF THE DANGER OF BODILY INJURY OR DEATH.

To accomplish this purpose - ALWAYS mount this sign in the following manner:

1. Clearly visible to the operator and other personnel
2. At or near eye level
3. PERMANENTLY fastened with bolts or rivets

NEVER OPERATE MACHINE WITHOUT THIS DANGER SIGN VISIBLE TO ALL PERSONNEL.

KSC048

OPERATOR SAFETY PRECAUTIONS
Handout for Anyone Operating This Machine
Before You Operate This Machine
You Must Read and Understand These Safety Precautions

DANGER

NEVER
Place Your Hands, Clothes or Any Part of Your Body in This Machine!

See Reverse Side for Other Safety Precautions.

Do Not Operate This Machine Until You Read and Understand the Following Safety Precautions.

1. Never operate the machine unless you understand the machine instructions thoroughly. You will not be able to use the machine properly if you do not read and understand these instructions.

2. Make sure your hands, clothes, or any part of your body is not in the machine when you operate it. This can cause death or serious injury.

3. Always wear proper protective clothing and equipment when operating the machine. This will help prevent injury.

4. Always operate the machine with proper eye and other body protection. Failure to do so may result in eye injury or severe personal injury.

*Use of Operation: The operation of the machine is only performed when materials are properly processed.* (ASME 31.1-95)
Danger Sign(s) to be Mounted to the Machine to be KSC046 & KSC048

Accompanying this equipment are two polyethylene danger signs, Part Nos. KSC048 (11” x 8-1/2”) and KSC046 (5” x 6”).

If any danger sign becomes destroyed or unreadable, the sign must be replaced immediately. Contact factory for replacement danger sign(s).

Never operate this machine unless the danger sign(s) is in place.

FOR REPLACEMENT SIGNS CALL, E-MAIL, OR FAX FACTORY OR USE ORDER FORM TOWARDS THE BACK OF THIS MANUAL.

Rockford Systems, LLC.
5795 Logistics Parkway
Rockford, Illinois 61109
Toll Free: 1-800-922-7533 (USA only)
Phone: (815) 874-7891
Fax: (815) 874-6144
Web Site: www.rockfordsystems.com
E-Mail: customerservice@rockfordsystems.com
SECTION 2 — PROTECTOR SHIELD INSTALLATION

Protector Series Shields

Components in the System

Individual packages may vary in contents. However, a packing list is always enclosed showing exactly what material was shipped on this order. Please check the components actually received against this packing list. Standard components of this system are as follows:

• Installation Manual
• Danger Signs
• Mounting/Pivot System
• Optional Mounting Brackets, if applicable
• Electrical Enclosure, if applicable

Other components that may be required for a particular application are:

• E-Stop Circuit
• Power Source (85-305VAC) or (24VDC)
• Motor Starter
• Disconnect Switch
• Foot Switch
• RSS00085 Accessory Bracket Kit

General Information

PROTECTOR™ Series Shields, are high-quality, highly-featured line of robust machine safeguarding shields that maximize safety, improve productivity and reduce risk.

PROTECTOR Series Shields limit operators’ contact with rotating parts, stop flying chips and debris, meet all applicable OSHA regulations and ANSI standards, and solve common cutting and turning machine guarding problems. They are designed to be permanently affixed to the machine, and are designed to swing and/or lift out of the way of the point of operation for part change-out and tooling changes/machine maintenance.

Standard Features of Protector Shields:

• Robust Construction
• Modular Design

Optional Features on Protector Shields:

• Workspace Safety Lighting
• Machine Status Lighting
• Safety Interlocks & Monitoring*

* To achieve a Category 2 rating, a safety monitoring relay can be added as a redundant level of security, monitoring the integrity of the interlocking feature so that a removed or failed safety interlock will not permit unsafe operation of the machine.

Preliminary Steps Before Installation

Before proceeding with the installation of the enclosed equipment, the following preliminary steps should be considered:

1. Read and make sure you understand this entire Installation Manual.

2. Ensure that the machine is in first-class condition. Before starting any installation it is essential that the machine be thoroughly inspected. Make sure all mechanical components and collateral equipment are in first-class operating condition. Your inspection should be in accordance with the machine manufacturer’s installation and maintenance instruction manual. If you have any doubts or questions concerning the condition of the machine, contact the machine manufacturer for assistance. Repair or replace all parts not operating properly before proceeding.

Inspection and maintenance programs must be established and implemented to keep machines in first-class condition. Programs must include thorough inspections of each machine on a weekly basis and records kept of these inspections. Any part of the machine that is worn, damaged or is not operating properly must immediately be replaced or repaired before the machine is used.

3. Verify that the machine is in first-class condition and operating properly. Shut off all power to the machine. Padlock the disconnecting means in the “off” position and do not actuate the machine again until the installation of all package components has been completed. Lockout/tagout energy isolation procedures must also be practiced and enforced for all energy sources when installing the enclosed equipment, setting up and maintaining the machine.

(Continued on next page.)
The operator must be protected from all hazards. All applicable sections of OSHA Section 1910.212, General Machine Safeguarding, and ANSI must be complied with on all machines where this equipment is installed.

Before starting any installation work. Run the machine in a normal operating sequence to determine proper operation. Do not install on a machine that does not function properly. When the machine is operating satisfactorily, shut off the power with the disconnect switch and do not operate the machine again until installation is complete. Use of a lockout device and padlock on the disconnect handle must be used during this period.

The maintenance and inspection section in this manual cannot be all-inclusive for maintaining machines. Always refer to the original machine manufacturer’s maintenance manuals or owner’s manual. If you do not have an owner’s manual, please contact the original equipment manufacturer.

INSTALLATION MANUAL

Included with every shipment is an installation manual, danger sign(s), and electrical schematics. These publications must be available and fully understood before any retrofit installation begins. Please notify Rockford Systems, LLC immediately if there are any questions about the components received.

DANGER SIGNS - PART NUMBERS KSC046 & KSC048

It is imperative that these signs be firmly attached to the machine in a location readily visible to all personnel. Suggested mounting instructions are shown on the reverse side of this sign. These signs must be the first thing mounted to prevent any possibility that it might be overlooked. If either sign becomes destroyed or unreadable, it must be replaced immediately. Contact factory for replacement and do not operate the machine until the danger signs are in place.

Mechanical Installation

1. Remove all packing materials from the Shield and its Mounting Assembly.
2. Confirm the Shield is configured in the best possible mounting orientation (Right or Left-Hand) for the intended safeguarding application. If reversal is desired, please contact Rockford Systems Customer Service at 800-922-7533 or customerservice@rockfordsystems.com.
3. Locate the Mounting Assembly on the machine as desired to allow placement of the Shield for providing the best protection and operation. (See Section 4 MECHANICAL ILLUSTRATIONS, Figures 2.1 thru 2.9 for various options)
   Note: Shield may be removed during this step to facilitate working with the Mounting Assembly
4. Refer to Drawing KSL303 for mounting options using Optional Bracket Kit RSS00041, which is shipped loose.
5. Drill and tap holes for the Mounting Assembly, either on a suitable surface of the machine, or a dedicated, rigid piece of equipment located for the purpose of mounting the Shield. Make sure the holes do not interfere with gears, shafts, etc., and the assembly is located so it allows for proper operation of the machine and shield.
6. Bolt the Mounting Assembly to the mounting surface using 3/8 or 10mm bolts. (Bolts not furnished.)
7. Complete Mounting Assembly set-up and verify proper operation per drawing KSL304.
8. Reinstall Shield, if removed during Step 3, make final positional adjustments. In some instances, the Shield mounting yoke may be a partial tooth off from hanging as desired, in these cases the final angle may be fine-tuned by adjusting the bracketry as noted. (See Section 4 MECHANICAL ILLUSTRATIONS, Figures 2.10 & 2.11).
9. Verify complete, correct motion of Shield, and complete final tightening of all hardware.
10. Mounting Posts (See Figure 2.4, Item A) and Shield Mounting Hex Bar (See Figure 2.4, Item B) may be trimmed, if desired, after final adjustments are made and proper operation has been verified.
11. Complete installation by performing any wiring needed per the Electrical Installation section of this manual and verifying proper operation of the Protector Shield.
OTHER OPTIONAL COMPONENTS  (Not part of package unless specifically ordered)

MAIN POWER DISCONNECT SWITCH
A main power disconnect switch may have been supplied in the package shipment. This switch is designed to disconnect the primary voltage to the machine and lock it out. Please refer to the enclosed wiring schematics for proper wiring of this switch.

All main power disconnect switches must be capable of being locked only in the OFF position.

If the machine already has a main power disconnect switch, it must be checked for the “locking off” and lockout feature. If this is not possible, or an electrical disconnect switch is not provided, then you must obtain and install a proper disconnect switch. (To purchase a disconnect switch, please contact Rockford Systems, LLC)

MOTOR STARTER
A motor starter may have been supplied in this shipment. The main purpose of this starter is to drop out the main drive motor and power to the controls when a power failure occurs. The Protector Shield interlock, if equipped, must be tied into a motor starter. (For safety reasons do not run a separate line to the control. Please refer to the enclosed wiring schematics for proper wiring of this starter.)

It is important that the motor starter is engineered and constructed in such a way that:

The motor start button shall be protected against accidental operation.

The motor starter shall incorporate a type of drive motor starter that will disconnect the drive motor from the power source in event of control voltage or power source failure, and require operation of the motor start button to restart the motor when voltage conditions are restored to normal.

These requirements are normally met by using a magnetic motor starter. This starter (if furnished) operates with a 120 VAC coil. Refer to the electrical schematics supplied for details on wiring the starter and associated motor start/stop push buttons.

RSS00085 ACCESSORY VERTICAL BRACKET KIT FOR 2-SIDED SHIELDS
Particularly useful for applications like a band saw. Contact Rockford Systems to order.
### SECTION 2 — PROTECTOR SHIELD INSTALLATION

**Protector Series Shields**

**Electrical Installation**

1. Begin the Electrical Installation by determining a suitable location to mount the enclosure on, or near, the machine.
2. Following the appropriate set of Wiring Diagrams (See Section 5 WIRING DIAGRAMS) for the equipment being installed, complete the electrical installation using industry standard best practices.
3. All wiring must be affixed permanently and securely, assuring that no wiring can be pinched during operation or caught up in moving parts. Special care must be taken to ensure that the Protector Shield can be rotated fully without the wiring being pinched or pulled.
4. Finalize the installation by verifying proper operation of the equipment before placing the machine back into service.

For technical specifications of the electrical components please visit our website via the following links:


### SECTION 3 — PROTECTOR SHIELD OPERATION

**Protector Series Shields**

**Protector Shield Operation**

The Protector Shields product line is a very comprehensive array of products, available in many configurations, ranging from simple shields, to models providing auxiliary lighting, and also models featuring machine interlocks with available safety relay monitoring. The level of operational criteria will vary, dependent on which equipment is being installed.

**SIMPLE SHIELD — NON-ELECTRICAL:**

- To complete this installation, you will want to verify that the shield and mounting equipment are rigidly and permanently affixed to the machine.
- The shield should be positioned in a way that best provides protection required for safely operating the machine.
- The shield and the machine should be fully operational with no interference between them; any controls to run the machine should be accessible with the shield in-place.

**MANUAL LED OPERATION:**

- To operate LED lighting in the shield, turn the power switch on the Junction Box to the On position.

NOTE: Lighting operation is manual, and independent of machine position. There is no LED color change, relative to position, on these models.

**PROTECTOR SHIELDS WITH LED/INTERLOCK SWITCH(S):**

- Shield must be in place for machine to run.
- White LEDs will operate any time power is supplied to the enclosure and the shield is in the run position.

NOTE: If the power is coming from the machine, you would have to turn on the machine to turn on power to the LEDs, if the power comes from a source external to the machine, then the light will come on independent of the machine.

- Moving the shield away from the run position will stop the machine and change the LED color to Red.
- Models using multiple interlocks must stop the machine and change LED color if either switch is moved from the operating position.
- Any switch failure will prevent the machine from running.
- The machine must not restart automatically when the shield is returned to operating position. (the white LED’s will turn back on before the reset is complete)

NOTE: Additional motor starter or anti-restart devices SHALL BE required when incorporating interlocking devices into the Protector Series Shields in order to ensure safe and compliant operation.

**PROTECTOR SHIELDS WITH LED/INTERLOCK SWITCH(S) AND MONITORING:**

- All of the operation parameters are the same as above, with the addition of Safety Monitoring
- Achieves a Category 2 rating, a safety monitoring relay is added as a redundant level of security, monitoring the integrity of the interlocking feature so that a removed or failed safety interlock will not permit unsafe operation of the machine.
FIGURE 2.1
(DIRECT MOUNT)

FIGURE 2.2
(OPTIONAL RS00041 KIT – SHIPPED LOOSE)
FIGURE 2.3
(DIRECT MOUNT ARM)
SECTION 4 — MECHANICAL ILLUSTRATIONS
Protector Series Shields

FIGURE 2.4
(POST-MOUNTED, DOUBLE PIVOT, HORIZONTAL SHAFT)

FIGURE 2.5
(POST-MOUNTED, DOUBLE PIVOT, VERTICAL SHAFT)
FIGURE 2.6
(POST-MOUNTED, SINGLE BASE PIVOT, HORIZONTAL SHAFT)

FIGURE 2.7
(POST-MOUNTED, SINGLE BASE PIVOT, VERTICAL SHAFT)
NOTES:

1. This optional assembly complements Installation of Rockford Systems Protector Series machine safeguarding shields using the direct-mount installation bracket, item numbers RSS00039 (interlocked - shown) & RSS00040 (non-interlocked), or as an alternative for mounting post installation when installing pivot-base arms onto a lathe cross slide carriage.

2. Assembly may be rotated in any of the orientations shown to facilitate installation, as required.

3. For best results and adjustability, position hardware as shown, with carriage bolt heads installed into slots in the bracket supplied in this kit.
INSTALLATION SET-UP NOTES:

Your new shield should arrive assembled to function correctly for the orientation ordered. These instructions are designed to provide guidance for reversal of operation and final adjustments during installation & operation.

To reverse operation:

- Loosen nut "A" slightly and remove shield from hex shaft by sliding off end.
- Loosen & remove nut "B" and washer "C".
- Slide stop cam into noted groove in hex shaft.
- Locate "ZERO" of hex shaft with switch by rotating the shaft and feeling for detent in rotation and listening for "click" of the safety switch.
- With the shaft/switch at "ZERO", slide stop cam back onto hex shaft with chosen end of slot against the stop bolt. One end of the slot MUST be against the stop bolt at "ZERO" for proper operation.
  - The shaft will rotate only in the direction away from the stop bolt when the shield is rotated out of the position for machine operation.
- Replace washer "C" and nut "B" and tighten to provide slight drag when moving the shield.
- With the shaft/switch located in the "ZERO" position, align the teeth in the shield mount with hex shaft, as desired for clocking to provide point-of-operation protection, and slide onto the hex shaft to the desired axial location.
- Tighten nut "A" to lock shield firmly onto shaft - do not overtighten.
- Always test for proper operation of safety switch and lighting (if equipped) prior to operating machinery.

For parts or service contact Rockford Systems:

- 1-800-922-7533 (M THRU F, 8AM - 5PM CST)
- CUSTOMERSERVICE@ROCKFORDSYSTEMS.COM
- WWW.ROCKFORDSYSTEMS.COM
### Protector Series Shields

<table>
<thead>
<tr>
<th>Description of Protector Shield Product</th>
<th>Enclosure Type</th>
<th>Shield Diagram</th>
<th>Motor Starter Diagram</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Shield - No LED Lighting or Interlock</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>1 White/Red LED Light - 1 Interlock</td>
<td>LSJB1INTR</td>
<td>RSS00074</td>
<td>Top Generic Motor Starter</td>
</tr>
<tr>
<td>2 White/Red LED Lights - 1 Interlock</td>
<td>LSJB1INTR</td>
<td>RSS00075</td>
<td>Top Generic Motor Starter</td>
</tr>
<tr>
<td>1 White/Red LED Light - 2 Interlocks</td>
<td>LSJB1INTR</td>
<td>RSS00076</td>
<td>Top Generic Motor Starter</td>
</tr>
<tr>
<td>1 Interlock w/ LED Lighting &amp; Monitoring</td>
<td>LSJB1INTM</td>
<td>RSS00076</td>
<td>Top Generic Motor Starter</td>
</tr>
<tr>
<td>2 White/Red LED Lights - 2 Interlocks</td>
<td>LSJB1INTM</td>
<td>RSS00077</td>
<td>Top Generic Motor Starter</td>
</tr>
<tr>
<td>2 Interlocks w/ LED Lighting &amp; Monitoring</td>
<td>LSJB1INTM</td>
<td>RSS00077</td>
<td>Top Generic Motor Starter</td>
</tr>
<tr>
<td>1 White LED Light - No Interlock</td>
<td>LSJB1T</td>
<td>RSS00078</td>
<td>None</td>
</tr>
<tr>
<td>2 White LED Lights - No Interlock</td>
<td>LSJB1T</td>
<td>RSS00079</td>
<td>None</td>
</tr>
<tr>
<td>1 Interlock - No LED Lighting</td>
<td>None</td>
<td>RSS00080</td>
<td>Bottom Generic Motor Starter</td>
</tr>
<tr>
<td>2 Interlocks - No LED Lighting</td>
<td>None</td>
<td>RSS00081</td>
<td>Bottom Generic Motor Starter</td>
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### Non-Interlocked Enclosure

**Description:**
- Non-Interlocked Enclosure

<table>
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<th>Function</th>
<th>Location</th>
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SECTION 5 — ENCLOSURE WIRING DIAGRAMS

Protector Series Shields

TOP OF BOX

NON-INTERLOCKED ENCLOSURE

Rockford Systems, LLC
Call: 1-800-922-7533
### SECTION 5 — ENCLOSURE WIRING DIAGRAMS

**Protector Series Shields**

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<td>CCY118</td>
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<td>X1 Terminal end plate, grey</td>
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<td>6</td>
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<td>SS1 TAG BLANK GRAY</td>
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<td>FS0263</td>
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<td>13</td>
<td>TSS5ST</td>
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<td>SS1 Changeover switch, With thumb-grip, maintained, 1 N/C, 2 positions, Brass/titanium</td>
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**NON-INTERLOCKED ENCLOSURE**

PROPOSAL: X0000

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**Rockford Systems, LLC**

Call: 1-800-922-7533
SECTION 5 — ENCLOSURE WIRING DIAGRAMS

Protector Series Shields

INPUT VOLTAGE RANGE:
85 - 305VAC

SAFETY OUTPUT

INTERLOCKED ENCLOSURE

FIELD WIRING CONNECTIONS

INTERLOCKED ENCLOSURE
SECTION 5 — ENCLOSURE WIRING DIAGRAMS
Protector Series Shields

INTERLOCKED ENCLOSURE
### SECTION 5 — ENCLOSURE WIRING DIAGRAMS

**Protector Series Shields**

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<td>F1</td>
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**INTERLOCKED & MONITORED ENCLOSURE**

**MACHINE:** Interlocked with Monitoring

**DESCRIPTION:**
- Interlocked with Monitoring
- Drawings list

---

**PROPOSAL:** XXXX

**CUSTOMER:** Rockford Systems, LLC

**DRAWING NUMBER:** LSBJ1/RTM

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**REVISION**

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**DATE:** 3/18/2020

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**SOLIDWORKS Electrical**

---

**SECTION 5 — ENCLOSURE WIRING DIAGRAMS**

**Protector Series Shields**
SECTION 5 — ENCLOSURE WIRING DIAGRAMS
Protector Series Shields

FIELD WIRING CONNECTIONS
INTERLOCKED & MONITORED ENCLOSURE

INPUT VOLTAGE RANGE:
85 - 305VAC

SOLWORKS ELECTED

Rockford Systems, LLC
Call: 1-800-922-7533
## SECTION 5 — ENCLOSURE WIRING DIAGRAMS

### Protector Series Shields

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<td>Ground Terminal block, green/yellow, 1x2 push-in connections</td>
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<td>CCO555</td>
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<td>35mm DIN Rail Perforated</td>
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<td>Terminal end plate, grey</td>
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### INTERLOCKED & MONITORED ENCLOSURE

Description: Lighted Shield Junction Box

- Interlocked with Monitoring
- Bill Of Materials by Part Number (Add all lengths in QTY, Show Assemblies)

**PROPOSAL:** X0000

**MANUFACTURER:** LSUB121

**MANUFACTURED BY:**

**REV.** | **DATE** | **CHANGE** | **DESCRIPTION** |
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SECTION 5 — SHIELD WIRING DIAGRAMS

Protector Series Shields

RSS0074 — 1 WHIT/RED LED — 1 INTERLOCK

Diagram showing field wiring connections, LED strip, and section 5 shield wiring diagrams.
SECTION 5 — SHIELD WIRING DIAGRAMS

PROTECTOR SERIES SHIELD WIRING

DESCRIPTION:

RSD0075 - (2 * WHITE/RED LED) - (1 * INTERLOCK) - WIRING

MINIMUM POWER SUPPLY SPECIFICATIONS:

2.5A @ 24VDC; 60W

MAXIMUM OUTPUT CURRENT:

0.5A

6.0A @ 24VDC; 144W

RSS00075 — 2 WHT/RED LED — 1 INTERLOCK
SECTION 5 — SHIELD WIRING DIAGRAMS
Protector Series Shields

RSS00076 — 1 WHT/RED LED — 2 INTERLOCK
### Protector Series Shields

**SECTION 5 — SHIELD WIRING DIAGRAMS**

**RSS00078 — 1 WHITE LED**

**LED STRIP #1**

- **CON 1**
  - PIN 1: WHT
  - PIN 2: RRD
  - PIN 3: GRN
  - PIN 4: BLK

**Strip Lengths for Connectors:**
- SHEATH @ 1.125".
- LEADS @ 0.125".

**Minimum Power Supply Specifications:**
- 2.5A @ 24VDC; 60W

**Description:**
- RSS00078 — 1 WHITE LED

**Field Wiring Connections**
- (P1) INPUT: WHITE LED 2 = 24VDC
- (N/C) INPUT: RED 2 LED (NOT USED) = 24VDC

**PIGTAIL 10'**
- STARTING AT END OF EXTENDED ARM

**PROPOSAL:**
- Changed Cord Wire to FYS035EPH
- Initial Design: Hickok
- 01/10/2020

**Drawn By:** Hickok

---

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RSS00079 — 2 WHITE LED

Minimum Power Supply Specifications:
2.5A @ 24VDC; 60W

PROPOSAL: SECTION 5 — SHIELD WIRING DIAGRAMS
 Protector Series Shields

DATEREV.
NAME CHANGES

REVISION
DRAWING NUMBER:

DOCUMENT REALIZED WITH VERSION:

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DRAWN BY: DATE:
8/3/2021

INITIAL DESIGN:

CHANGED CORD GRIPS TO FYS035EPH

PIGTAIL 10' STARTING AT END OF EXTENDED ARM

FIELD WIRING CONNECTIONS

MINIMUM POWER SUPPLY SPECIFICATIONS:
2.5A @ 24VDC; 60W

LED STRIP #1

CON 1

PIN 1
WHT

PIN 2
RED

PIN 3
GRN

PIN 4
BLU

PLUG: F PINS
RCPT: M PINS

MIN SHEATH @ 1.125"
LEADS @ 0.125"

CON 2

PIN 1
WHT

PIN 2
RED

PIN 3
GRN

PIN 4
BLU

PLUG: F PINS
RCPT: M PINS

FDK303
(3)

CON 1

PIN 1
WHT

PIN 2
RED

PIN 3
GRN

PIN 4
BLU

PLUG: F PINS
RCPT: M PINS

MIN SHEATH @ 1.125"
LEADS @ 0.125"

CON 2

PIN 1
WHT

PIN 2
RED

PIN 3
GRN

PIN 4
BLU

PLUG: F PINS
RCPT: M PINS

FDK303
(3)

(WHT) INPUT: WHITE LED 1 = 24VDC
(N/C) INPUT: RED LED 1 = 24VDC (NOT USED)

(WHT) INPUT: WHITE LED 2 = 24VDC
(N/C) INPUT: RED LED 2 = 24VDC (NOT USED)

(WHT) INPUT: WHITE LED 2 = 24VDC
(N/C) INPUT: RED LED 2 = 24VDC (NOT USED)

(WHT) INPUT: WHITE LED 2 = 24VDC
(N/C) INPUT: RED LED 2 = 24VDC (NOT USED)

(WHT) INPUT: WHITE LED 2 = 24VDC
(N/C) INPUT: RED LED 2 = 24VDC (NOT USED)
SECTION 5 — SHIELD WIRING DIAGRAMS

Protector Series Shields

DESCRIPTION:

FIELD WIRING CONNECTIONS

INTERLOCK RATED OPERATION CURRENT:

6A @ 24-230vac
3A @ 24VDC

PIGTAIl 10" STARTING AT END OF EXTENDED ARM

SOLIDWORKS Electrical

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DRAWING REF:

PROPOSAL:

PAGE

THIS DRAWING WAS REALIZED WITH VERSION:

DATEREV.

NAME CHANGES

REVISION

DRAWN BY:

DATE:

8/3/2021

INITIAL DESIGN:

HICKOK

CHANGE:

CHANGED CORD GRIPS TO FYS035EPH

0 10/6/2020

1

DESCRIPTION:

WHT

BLK

PIGTAIL 10'

STARTING AT END OF EXTENDED ARM

SWITCH #1

WHT

BLK

NORMALLY CLOSED (CLOSED WHEN SAFE)

= NO CONNECTION

= CONNECTED

INTERLOCK RATED OPERATION CURRENT:

6A @ 24-230vac
3A @ 24VDC

RSS00080 — 1 INTERLOCK
SECTION 5 — SHIELD WIRING DIAGRAMS

Protector Series Shields

FIELD WIRING CONNECTIONS

NORMALY CLOSED (CLOSED WHEN SAFE)

PIGTAIL 10' STARTING AT END OF EXTENDED ARM

SWITCH #1

WHT  BLK

WHT  BLK

SWITCH #2

NORMALLY OPEN (OPEN WHEN SAFE)

WHT  BLK

INTERLOCK RATED OPERATION CURRENT:

6A @ 24-230VAC

3A @ 24VDC

FDK326 (2)

FDK326 (2)

WHT  BLK

WHT  BLK

SWITCH #1

WHT  BLK

SWITCH #2

WHT  BLK

RSS00081 — 2 INTERLOCK

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WIRING DIAGRAM FOR:
GENERIC MOTOR STARTER

FOR INTERLOCKED SHIELDS WITH
LSJB1INTR OR LSJB1INTM ENCLOSURE

FOR INTERLOCKED SHIELDS WITH INTERLOCK(S) ONLY
1 OR 2 INTERLOCK VERSIONS
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# SECTION 6 — REPLACEMENT PARTS

Protector Series Shields

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<td>POLY SHIELD 2-SIDED 14&quot; X 12&quot;</td>
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<td>RSS00027X700</td>
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<td>COVER LED FLAT 16&quot;</td>
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<td>LED 6&quot; RED/WHITE PRE-WIRED W/PLUG</td>
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### SECTION 6 — REPLACEMENT PARTS

**Protector Series Shields**

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<td>LEDRW32PTW</td>
<td>LED 32” RED/WHITE PRE-WIRED W/PLUG</td>
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<td>LEDRW38PTW</td>
<td>LED 38” RED/WHITE PRE-WIRED W/PLUG</td>
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<td>LEDRW50PTW</td>
<td>LED 50” RED/WHITE PRE-WIRED W/PLUG</td>
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<tr>
<td>CMC615</td>
<td>SWITCH SAFETY 1NO/1NC</td>
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<tr>
<td>TSSPST</td>
<td>SWITCH POWER LED ONLY - NON-INTERLOCK</td>
</tr>
<tr>
<td>RFC157FP</td>
<td>SAFETY RELAY INTERLOCKED ONLY</td>
</tr>
<tr>
<td>RFT159</td>
<td>SAFETY RELAY INTERLOCKED AND MONITORED</td>
</tr>
<tr>
<td>RYL152</td>
<td>AC/DC POWER SUPPLY 24V</td>
</tr>
<tr>
<td>CMK001</td>
<td>BLACK PLASTIC WIRING TEE ADAPTOR</td>
</tr>
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</table>
LAYOUT OF PROTECTOR SHIELD INSTALLATION

MAKE YOUR SKETCH HERE FOR YOUR MACHINE,
NOTING THE LOCATION OF THE PROTECTOR SHIELD PARTS AND
COMPONENTS TO BE INSTALLED ON YOUR MACHINE
This instruction manual references signs and literature available for your machines. This order form is for your convenience to order additional signs and/or literature as needed. (This order form is part of your installation manual so please make a copy of it when ordering.)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Quantity Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>KSL305</td>
<td>MANUAL INSTALLATION PROTECTOR SHIELD</td>
<td></td>
</tr>
<tr>
<td>KSC046</td>
<td>SIGN DGR ROT COMP ENGLISH</td>
<td></td>
</tr>
<tr>
<td>KSC046S</td>
<td>SIGN DGR ROT COMP SPANISH</td>
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<tr>
<td>KSC046F</td>
<td>SIGN DGR ROT COMP FRENCH</td>
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<tr>
<td>KSC048</td>
<td>SIGN OPER SAFETY PREC ENGLISH</td>
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<td>KSC048S</td>
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</tr>
<tr>
<td>KSC048F</td>
<td>SIGN OPER SAFETY PREC FRENCH</td>
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</table>

For prices and delivery, please use address, phone or fax number listed on the front cover of this manual.

Your Signature _____________________________________________ Date ____________________________

Company ____________________________________________________

Address ____________________________________________________________________________________

City __________________________ State ___________________________ Zip ______________

Phone __________________________ Fax _____________________________

Name ___________________________ Purchase Order No. _______________ Date ________________
SECTION 8 — PRODUCT RETURN

Protector Series Shields

To return material for any reason contact the sales department in our organization at 1-800-922-7533 for an R.M.A. Number. All returned materials shipments must be prepaid. Complete this form and send with material to 5795 Logistics Parkway, Rockford, IL 61109-2695. Make sure the R.M.A. Number is plainly identified on the outside of the shipping container.

<table>
<thead>
<tr>
<th>Company</th>
<th>Address</th>
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<table>
<thead>
<tr>
<th>Contact Name</th>
<th>Representative</th>
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**Items Authorized To Return on R.M.A. No.**

<table>
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<tr>
<th>Part No.</th>
<th>Serial No.</th>
<th>Description</th>
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**Service Requested:**

- [ ] Full Credit
- [ ] 25% Restocking
- [ ] Repair & Return
- [ ] Warranty Replacement

Reason for return (describe in detail):

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</tbody>
</table>

Return Materials Authorized by ___________________ Date ____________

Rockford Systems, LLC
Call: 1-800-922-7533
5795 Logistics Parkway  
Rockford, Illinois 61109  
Toll Free 1-800-922-7533 (USA Only)  
Phone (815) 874-7891  
Fax (815) 874-6144  
Web Site: www.rockfordsystems.com  
E-Mail: customerservice@rockfordsystems.com