

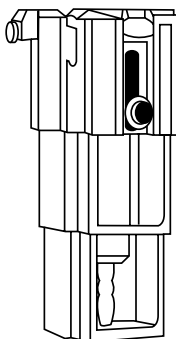
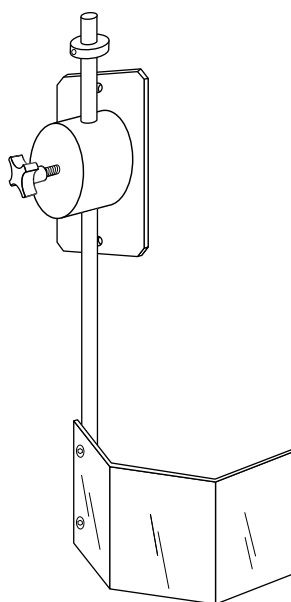


INSTALLATION INSTRUCTIONS FOR DRILL SHIELDS

Safety Chip Shields (Page 2)

☐ KYL001

☐ KYL055



Aluminum Drill Shields (Pages 6-7)

☐ DZS001

☐ DZS003

☐ DZS004

☐ DZS005

☐ DZS006

These shields are designed for machines that require protection from chips and coolant generated at the point of operation.

SECTION 1—SAFETY CHIP SHIELDS

Shield Installation Instructions

Introduction

These safety chip shields provide protection from flying chips, coolant, and rotating parts. They fit drill presses, small mills, and can be magnetically or permanently mounted.

The clear polycarbonate chip shield provides total visibility to the point of operation. It locks in any vertical position and provides easy access to the work area by swinging away for tool changes.

Installation

1. Remove all packing material from the shield and its mounting assembly.
2. To permanently mount the shield, drill and tap holes on the machine where the shield is to be located. Be careful when drilling holes into the frame of the machine. Avoid internal components that could affect machine operation.
3. Using the mounting plate and fasteners (not furnished), attach the shield to the machine.

REPLACEMENT PARTS FOR KYL001

Part No.	Description
KYM001	Polycarbonate Shield Only
KYM002	Mounting Arm
KYM003	Magnetic Base and Carrier
FKT213	Mounting Plate

Figure 1.1
Complete Shield
KYL001

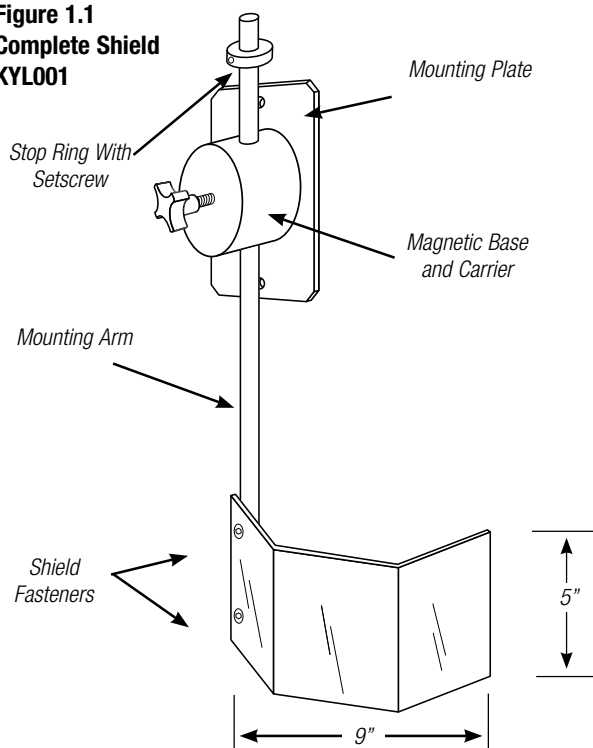


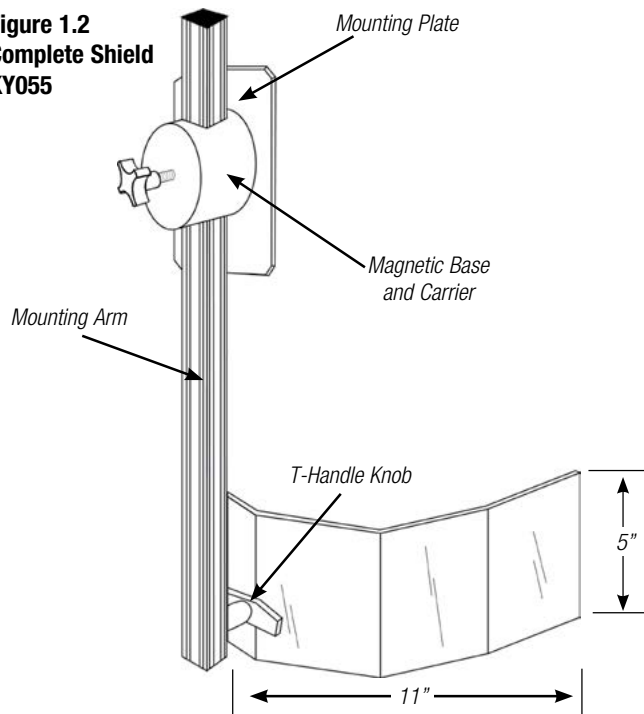
Photo 1.1



REPLACEMENT PARTS FOR KYL055

Part No.	Description
KYL044	Polycarbonate Shield Only
FKT792	Mounting Arm
KYM069	Magnetic Base and Carrier
FKT083	T-Handle Knob
FKT213	Mounting Plate

Figure 1.2
Complete Shield
KYL055



SECTION 3—HEAVY-DUTY ALUMINUM DRILL SHIELDS

Shield Installation Instructions

Introduction

These cast aluminum drill shields are furnished with a standard 1 3/4" bore. The holder can be bored up to a maximum diameter of 3 1/2" by the user.

The shield is available in 2-tier or 3-tier models and provides protection from 3" to 6" travel of the drill bit. The bottom section(s) of the shield has a clear panel for visibility.

The holder attaches to the machine quill of the drill press. For changing chucks or drill bits, the 2- or 3-tier section can be swung forward and upward out of the way (Photo 3.2). Shields are also available which have a side hinge that swings to the left side.

Photo 3.1

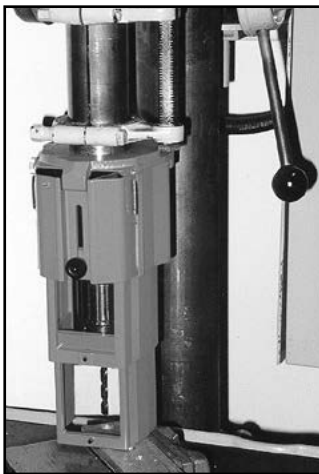
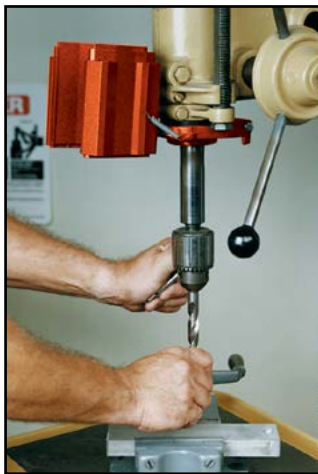


Photo 3.2



Installation

1. If the machine quill (nonrotating collar) is larger than 1 3/4" diameter, bore the holder up to the required diameter (3 1/2" maximum). See Figure 3.1. On some drilling machines it may be necessary to raise the stop-gauge casting to expose this quill.
2. When the holder is at the desired size, split the rear of the holder with two saw cuts 3/16" apart. The cuts must extend into the precast slot to ensure sufficient clearance for clamping action when tightening the hex bolt. See Figure 3.1.

Figure 3.1
Top View of Holder

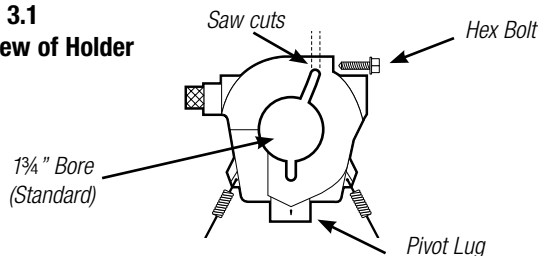
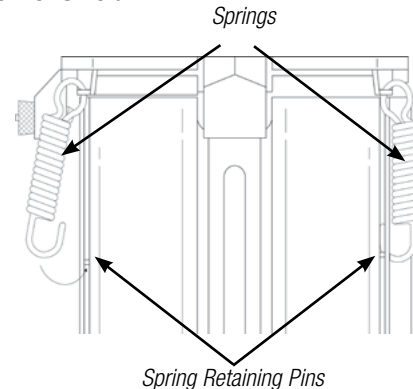


Figure 3.2
Front View of Shield



3. Insert the pivot lug (on holder) into the channel of the body section.
4. Using a hammer, tap the pivot pin into the pivot hole in the body section through the pivot lug.
5. Peen the end of the pivot pin to prevent it from coming out.
6. Using pliers, extend the springs and hook them behind the retaining pins which are positioned midway down the body section. See Figure 3.2.
7. Insert the hex bolt into the rear of the top holder. Attach the top holder to the machine quill. Tighten the bolt to clamp onto the quill.
8. Use the adjusting knob to shorten the stroke of the shield.

Replacing the Polycarbonate Window

The polycarbonate window(s) on the drill shield is replaceable because it will become scratched and opaque from normal wear and tear. For comfortable operator vision, the window should be replaced whenever it becomes cloudy.

1. Tap out the window retaining pin.
2. Slide the used polycarbonate window out and insert the new window.
3. Replace the retaining pin.

REPLACEMENT WINDOW

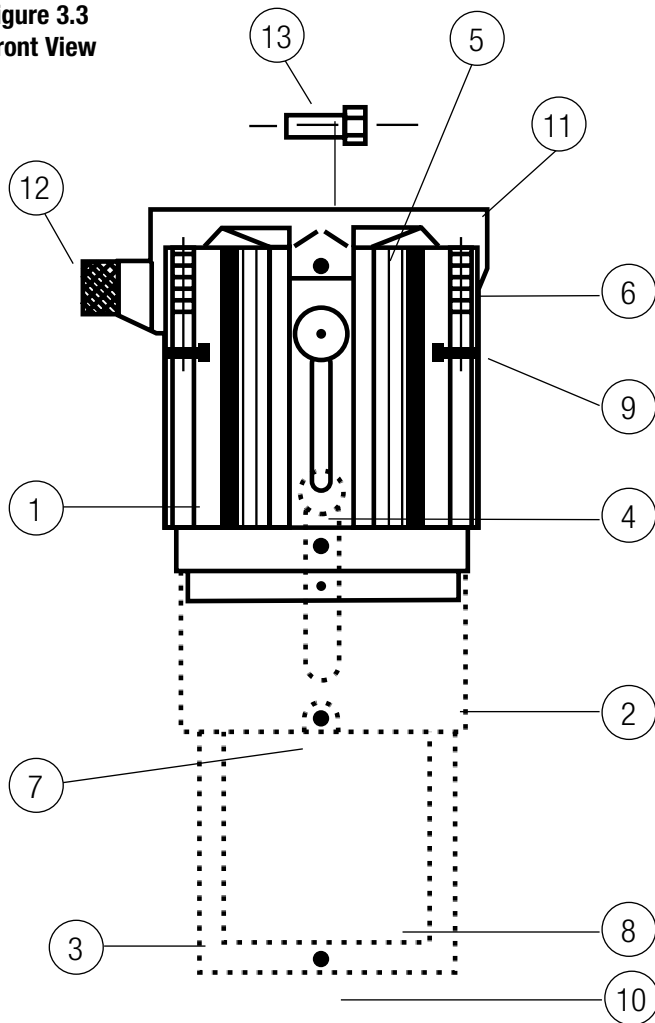
Part No. DZS002 Replacement polycarbonate window for all aluminum drill shields. (The 3-tier drill shield has two windows.)

SECTION 3—HEAVY-DUTY ALUMINUM DRILL SHIELDS

Shield Installation Instructions

DIAGRAM AND PARTS LIST

Figure 3.3
Front View



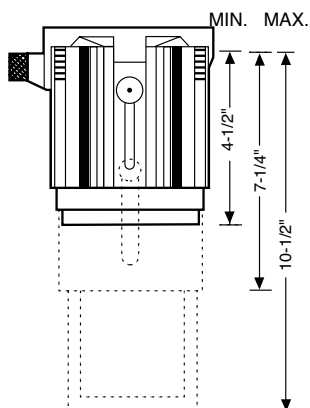
TOP ASSEMBLY KIT

Item No.	Description
5	Hardened Pivot Pin
6	Extension Springs (2)
11	Top Carrier
12	Plunger Pin Assembly
13	1/4" BSW Hex Bolt

TELESCOPIC SHIELD ASSEMBLY

Item No.	Description
1	Body Section
2	Middle Section
3	Visor Section
4	Adjusting Knob Assembly
7	Hardened Stop Pin
8	Polycarbonate Window
9	Spring Retaining Pins (2)
10	Window Retaining Pin (1)

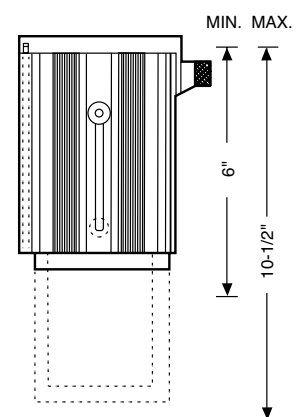
Figure 3.4
Part No. DZS001 Dimensions



DRILL SHIELDS

Part No.	Description
DZS001	3-Tier Front Hinge 4 1/2" Min; 10 1/2" Max; 6" Stroke; Max Chuck Dia. 2 1/2"
DZS003	2-Tier Front Hinge 4 3/16" Min; 7" Max; 2 11/16" Stroke; Max Chuck Dia. 2 3/4"
DZS004	2-Tier Front Hinge 6" Min; 10 1/2" Max; 4 1/2" Stroke; Max Chuck Dia. 2 3/4"
DZS005	2-Tier Side Hinge 6" Min; 10 1/2" Max; 4 1/2" Stroke; Max Chuck Dia. 2 3/4"
DZS006	3-Tier Side Hinge 4 1/2" Min; 10 1/2" Max; 6" Stroke; Max Chuck Dia. 2 1/2"

Figure 3.5
Part No. DZS005 Dimensions



SECTION 4—OTHER CONSIDERATIONS

Shield Installation Instructions

Using the Shields

These shields is intended to deflect objects such as chips and coolant. For protection, position the shield between the point of operation and the operator. Make sure the shield will not be hit by normal movements of the table, rotating handles, pieceparts, etc. During loading or setup of workpieces, the shield can be swung out of the way.

Note: Always make sure the shield is installed and maintained in first-class condition to meet the applicable OSHA (Occupational Safety and Health Administration) or ANSI (American National Standards Institute) standards.

Maintenance of the Polycarbonate

The transparent portions of these shields are made of polycarbonate which was selected for its strength and durability under impact. Although it will scratch if mistreated, it can be kept clear with the following appropriate care.

1. Remove coolant, chips, or debris periodically.
2. Using a clean sponge or soft clean cloth, wash with mild soap or detergent and lukewarm water.
3. Rinse well with clean water.
4. Hairline scratches or minor abrasions can be removed or minimized using a mild car polish such as paste wax. A wax coating also makes cleaning easier.

When many shields are used in a plant, spare shields can be kept on hand and exchanged periodically. The shields can be removed from the machines, carefully washed, and exchanged at a later date.

Do Not rub or wipe with dirty shop towels or scrape with a blade.

Do Not use gasoline, benzine, acetone, or carbon tetrachloride on the shield.

Do Not use cleaners or powders that contain abrasives, or “dry rub” abrasive dust to remove coolant, lubricant, and chips.



When operating any cutting machine (drill press), the operator must be properly trained and must wear proper personal protective equipment such as safety glasses with side shields, safety clothing, and safety shoes. The operator must not wear loose clothing, must not have unrestrained long hair, and must not wear jewelry.

SECTION 4—OTHER CONSIDERATIONS

Shield Installation Instructions

Warranty

9. Limited Warranties.

9.1. (i) Subject to Section 8.1(ii) below, Rockford Systems makes to Customer the following sole and exclusive warranties with respect to Goods:

(a) with respect to Goods that are manufactured based on Customer specifications, at the time of shipment by Rockford Systems, the Goods sold under the Agreement that are manufactured by Rockford Systems pursuant to such specifications conform to such specifications set forth in the applicable Order Documentation; and

(b) at the time of shipment by Rockford Systems, the Goods sold under the Agreement that are manufactured by Rockford Systems are free from defects in material and workmanship.

(c) Rockford Systems's warranty is for a period of 1 year, and begins from date of shipment from Rockford Systems to the original purchaser.

This warranty does not include accessories, parts or equipment sold hereunder that are manufactured by someone other than Rockford Systems.

(ii) Every claim by Customer against Rockford Systems for breach of warranty with respect to the Goods shall be deemed waived by Customer unless written notice thereof is received by Rockford Systems within fifteen (15) days after discovery.

9.2. If Rockford Systems breaches either of the warranties set forth in Section 8.1(i) above, and written notice thereof is received by Rockford Systems from Customer within the applicable time period specified in Section 8.1(ii) above, Customer's sole and exclusive remedy and Rockford Systems's only obligation shall be, as Rockford Systems in its sole and exclusive judgment shall determine, the replacement of the nonconforming Goods, or an adjustment to the purchase price for the nonconforming Goods or the repair of the nonconforming Goods. All transportation charges related to replacement or repair of Goods shipped to Rockford Systems's plant or facility (or other place at Rockford Systems's direction) shall be prepaid by Customer. Rockford Systems shall be responsible for reasonable transportation charges back to Customer for Goods that have been replaced or repaired by Rockford Systems. Any replacement Goods or repaired Goods shall be subject to these Terms and Conditions.

9.3. THE EXPRESS WARRANTIES SET FORTH HEREIN ARE THE ONLY WARRANTIES APPLICABLE TO THE SALE OF GOODS BY ROCKFORD SYSTEMS TO CUSTOMER PURSUANT TO THE AGREEMENT, AND THEY EXCLUDE ALL OTHER EXPRESS, ORAL OR WRITTEN WARRANTIES, AS WELL AS ANY WARRANTIES IMPLIED BY LAW WITH RESPECT TO THE GOODS, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PURPOSE, NOTWITHSTANDING ANY DISCLOSURE TO ROCKFORD SYSTEMS OF THE INTENDED USE OF THE GOODS.

9.4. Rockford Systems's warranties under Section 8.1(i) are void if repairs or modifications of the Goods are made by anyone other than Rockford Systems. Without limitation of the foregoing, Rockford Systems assumes no responsibility for and shall have no obligations to Customer because defects in any materials furnished by, or any faulty workmanship provided by, any party other than Rockford Systems.

9.5. Rockford Systems reserves the right to improve its products through changes in design or material without being obligated to incorporate such changes into products of prior manufacture. Customer cannot rely on any such changes as proof of insufficiency or inadequacy of prior designs of the Goods or material contained in the Goods.

9.6. If Customer grants to an end user of the Goods (or any other customer of Customer) any warranty that is greater in scope or time than the warranty and claims period stated herein, Rockford Systems shall not be liable beyond the scope of the limited warranty, the claim period, the damages and the remedies provided for under this Section.

9.7. Solely to the extent transferable, Rockford Systems assigns and transfers to Customer the original manufacturer's warranty on Goods sold hereunder that are not manufactured by Rockford Systems.