

Lathe Carriage Shield Instruction Manual

DANRAY Products LLC
MACHINE SAFEGUARDS AND ACCESSORIES



Thank you for purchasing a Danray Products lathe carriage shield. This versatile and durable shield can be used in many machine applications. This quality-made, heavy-duty shield is proudly made in the United States of America.

Lathe carriage shields protect individuals from point-of-operation hazards, rotating parts, flying chips, coolant, and other particles. When applied properly, they will comply with applicable OSHA and ANSI safety standards. If turning is done beyond the carriage shield or chips fly out from the open end, additional shields or guards may be required. The chuck on the lathe may also need a separate shield. For additional shields, see our website or catalog.

The enclosed safety sign identifies and warns individuals against specific hazards. Our signs comply with OSHA 29 CFR 1910.145 and the ANSI Z535 series of standards for the design, application, and use of signs, colors, and symbols for accident prevention.

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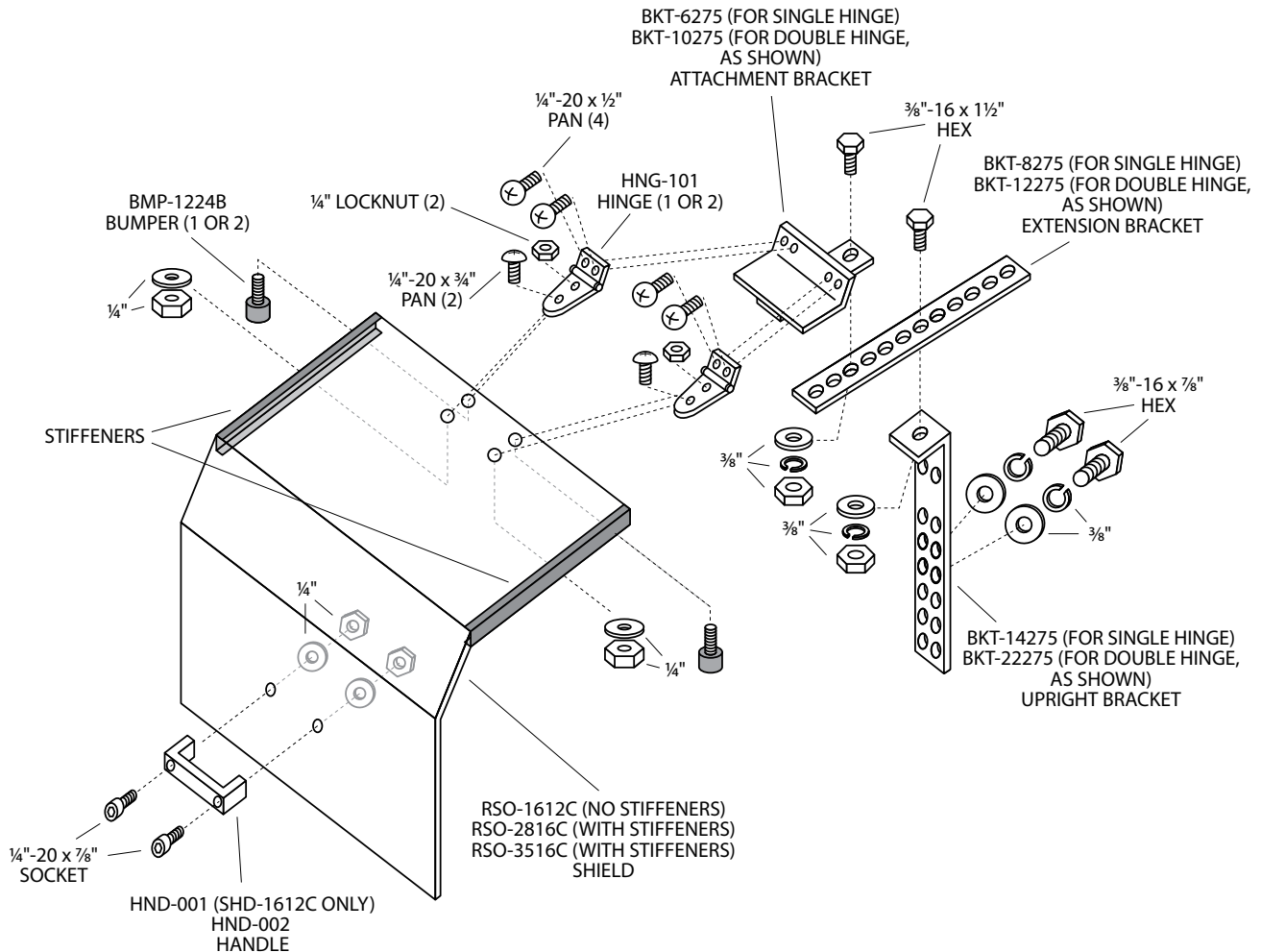
Manual No. MAN-006

Assembling and Installing the Shield

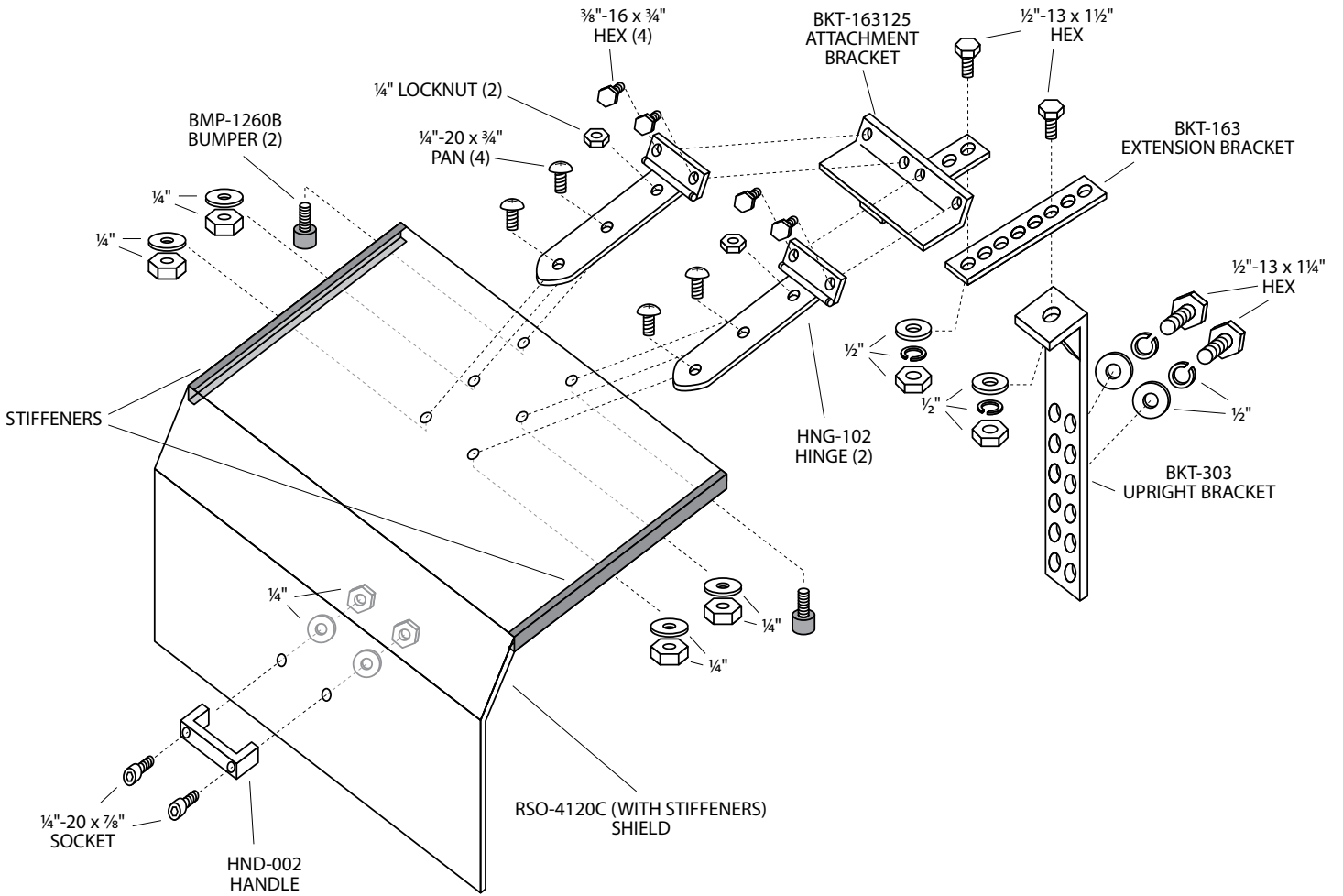
The lathe carriage shield assembly includes the shield, mounting brackets (3), hinge(s), bumper(s), handle, and fasteners. To assemble, take all of the above components out of the shipping container, remove all protective packaging, and lay them out on a bench as illustrated in the drawing below or on the next page. First, peel back and remove the protective masking on the shield and assemble the hinge(s) to the shield using the fasteners provided. Then, assemble the shield to the attachment bracket. To make sure that all parts will align, do not tighten the fasteners until the shield is completely assembled on the lathe. Also attach the handle on the front of the shield.

On the backside of the lathe carriage (saddle), locate an area where the upright bracket can be mounted. Drill and tap two holes ($\frac{3}{8}$ "-16 for SHD-1612C, SHD-2816C, and SHD-3516C; $\frac{1}{2}$ "-13 for SHD-4120C). Be careful not to drill into the carriage ways. Then install the upright bracket using the fasteners provided. After the upright bracket is securely attached to the carriage, install the shield by fastening the attachment bracket to the upright bracket using the extension bracket (if needed). If the extension bracket is not needed, fasten the attachment bracket directly to the upright bracket. Align and tighten all fasteners and the installation will be complete.

Illustrated Below: Shield Assemblies SHD-1612C, SHD-2816C, and SHD-3516C

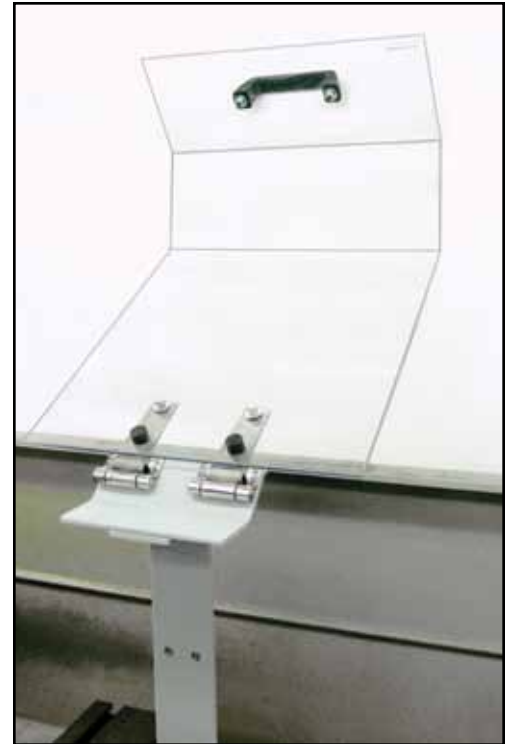


Illustrated Below: Shield Assembly SHD-4120C





Shield in the down position when operating the lathe. When installing the shield, make sure it clears the tool holder on the front of the carriage.



Shield in the up position for changing the tooling or workpiece. Be sure to move the shield back into the down position before operating the lathe.

One LBL-005 sign is included with every shield assembly. Affix this sign to a prominent location on the machine so that it is easily seen and understood by individuals in the hazard area. Additional signs for other machinery and equipment are available as well as polycarbonate sign backings; contact us by phone, fax, e-mail, or online.



Part No. LBL-005

Cleaning and Maintenance of the Shield

The shield itself is made of a polished, UV-stabilized polycarbonate. To clean the shield, thoroughly rinse it with warm water using a soft cloth or sponge. Then wash it with mild soap or detergent (such as Formula 409, Top Job, Joy, Palmolive Liquid, or Windex) and rinse it thoroughly with clean water. To prevent water spots, dry the shield with a chamois or moist sponge. Avoid cleaning the shield in direct sunlight to prevent streaking.

CAUTION Do not use abrasive cleaners or harsh solvents for cleaning; this may damage the polycarbonate shield.