



OPERATOR'S MANUAL

Metal Working



MANUAL BENCH PRESS MODEL: BP-3

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THANK YOU & WARRANTY

Thank you for your purchase of a machine from Baileigh Industrial Holdings LLC. We hope that you find it productive and useful to you for a long time to come.

Inspection & Acceptance. Buyer shall inspect all Goods within ten (10) days after receipt thereof. Buyer's payment shall constitute final acceptance of the Goods and shall act as a waiver of the Buyer's rights to inspect or reject the goods unless otherwise agreed. If Buyer rejects any merchandise, Buyer must first obtain a Returned Goods Authorization ("RGA") number before returning any goods to Seller. Goods returned without an RGA will be refused. Seller will not be responsible for any freight costs, damages to goods, or any other costs or liabilities pertaining to goods returned without a RGA. Seller shall have the right to substitute a conforming tender. Buyer will be responsible for all freight costs to and from Buyer and repackaging costs, if any, if Buyer refuses to accept shipment. If Goods are returned in unsalable condition, Buyer shall be responsible for full value of the Goods. Buyer may not return any special-order Goods. Any Goods returned hereunder shall be subject to a restocking fee equal to 30% of the invoice price.

Specifications. Seller may, at its option, make changes in the designs, specifications or components of the Goods to improve the safety of such Goods, or if in Seller's judgment, such changes will be beneficial to their operation or use. Buyer may not make any changes in the specifications for the Goods unless Seller approves of such changes in writing, in which event Seller may impose additional charges to implement such changes.

Limited Warranty. Seller warrants to the original end-user that the Goods manufactured or provided by Seller under this Agreement shall be free of defects in material or workmanship for a period of twelve (12) months from the date of purchase, provided that the Goods are installed, used, and maintained in accordance with any instruction manual or technical guidelines provided by the Seller or supplied with the Goods, if applicable. The original end-user must give written notice to Seller of any suspected defect in the Goods prior to the expiration of the warranty period. The original end-user must also obtain a RGA from Seller prior to returning any Goods to Seller for warranty service under this paragraph. Seller will not accept any responsibility for Goods returned without a RGA. The original end-user shall be responsible for all costs and expenses associated with returning the Goods to Seller for warranty service. In the event of a defect, Seller, at its sole option, shall repair or replace the defective Goods or refund to the original end-user the purchase price for such defective Goods. Goods are not eligible for replacement or return after a period of 10 days from date of receipt. The foregoing warranty is Seller's sole obligation, and the original end-user's exclusive remedy, with regard to any defective Goods. This limited warranty does not apply to: (a) die sets, tooling, and saw blades; (b) periodic or routine maintenance and setup, (c) repair or replacement of the Goods due to normal wear and tear, (d) defects or damage to the Goods resulting from misuse, abuse, neglect, or accidents, (e) defects or damage to the Goods resulting from improper or unauthorized alterations, modifications, or changes; and (f) any Goods that has not been installed and/or maintained in accordance with the instruction manual or technical guidelines provided by Seller.

EXCLUSION OF OTHER WARRANTIES. THE FOREGOING LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. ANY AND ALL OTHER EXPRESS, STATUTORY OR IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED. NO WARRANTY IS MADE WHICH EXTENDS BEYOND THAT WHICH IS EXPRESSLY CONTAINED HEREIN.

Limitation of Liability. IN NO EVENT SHALL SELLER BE LIABLE TO BUYER OR ANY OTHER PARTY FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR DOWN TIME) ARISING FROM OR IN MANNER CONNECTED WITH THE GOODS, ANY BREACH BY SELLER OR ITS AGENTS OF THIS AGREEMENT, OR ANY OTHER CAUSE WHATSOEVER, WHETHER BASED ON CONTRACT, TORT OR ANY OTHER THEORY OF LIABILITY. BUYER'S REMEDY WITH RESPECT TO ANY CLAIM ARISING UNDER THIS AGREEMENT IS STRICTLY LIMITED TO NO MORE THAN THE AMOUNT PAID BY THE BUYER FOR THE GOODS.



Force Majeure. Seller shall not be responsible for any delay in the delivery of, or failure to deliver, Goods due to causes beyond Seller's reasonable control including, without limitation, acts of God, acts of war or terrorism, enemy actions, hostilities, strikes, labor difficulties, embargoes, non-delivery or late delivery of materials, parts and equipment or transportation delays not caused by the fault of Seller, delays caused by civil authorities, governmental regulations or orders, fire, lightening, natural disasters or any other cause beyond Seller's reasonable control. In the event of any such delay, performance will be postponed by such length of time as may be reasonably necessary to compensate for the delay.

Installation. If Buyer purchases any Goods that require installation, Buyer shall, at its expense, make all arrangements and connections necessary to install and operate the Goods. Buyer shall install the Goods in accordance with any Seller instructions and shall indemnify Seller against any and all damages, demands, suits, causes of action, claims and expenses (including actual attorneys' fees and costs) arising directly or indirectly out of Buyer's failure to properly install the Goods.

Work By Others; Safety Devices. Unless agreed to in writing by Seller, Seller has no responsibility for labor or work performed by Buyer or others, of any nature, relating to design, manufacture, fabrication, use, installation or provision of Goods. Buyer is solely responsible for furnishing and requiring its employees and customers to use all safety devices, guards and safe operating procedures required by law and/or as set forth in manuals and instruction sheets furnished by Seller. Buyer is responsible for consulting all operator manuals, ANSI or comparable safety standards, OSHA regulations and other sources of safety standards and regulations applicable to the use and operation of the Goods.

Remedies. Each of the rights and remedies of Seller under this Agreement is cumulative and in addition to any other or further remedies provided under this Agreement or at law or equity.

Attorney's Fees. In the event legal action is necessary to recover monies due from Buyer or to enforce any provision of this Agreement, Buyer shall be liable to Seller for all costs and expenses associated therewith, including Seller's actual attorney fees and costs.

Governing Law/Venue. This Agreement shall be construed and governed under the laws of the State of Wisconsin, without application of conflict of law principles. Each party agrees that all actions or proceedings arising out of or in connection with this Agreement shall be commenced, tried, and litigated only in the state courts sitting in Manitowoc County, Wisconsin or the U.S. Federal Court for the Eastern District of Wisconsin. Each party waives any right it may have to assert the doctrine of "forum non conveniens" or to object to venue to the extent that any proceeding is brought in accordance with this section. Each party consents to and waives any objection to the exercise of personal jurisdiction over it by courts described in this section. Each party waives to the fullest extent permitted by applicable law the right to a trial by jury.

Summary of Return Policy.

- 10 Day acceptance period from date of delivery. Damage claims and order discrepancies will not be accepted after this time.
- You must obtain a Baileigh issued RGA number PRIOR to returning any materials.
- Returned materials must be received at Baileigh in new condition and in original packaging.
- Altered items are not eligible for return.
- Buyer is responsible for all shipping charges.
- A 30% re-stocking fee applies to all returns.

Baileigh Industrial Holdings LLC makes every effort to ensure that our posted specifications, images, pricing and product availability are as correct and timely as possible. We apologize for any discrepancies that may occur. Baileigh Industrial Holdings LLC reserves the right to make any and all changes deemed necessary in the course of business including but not limited to pricing, product specifications, quantities, and product availability.

For Customer Service & Technical Support:

Please contact one of our knowledgeable Sales and Service team members at:
(920) 684-4990 or e-mail us at Baileigh-Service@jpwindustries.com



INTRODUCTION

The quality and reliability of the components assembled on a Baileigh Industrial Holdings LLC machine guarantee near perfect functioning, free from problems, even under the most demanding working conditions. However, if a situation arises, refer to the manual first. If a solution cannot be found, contact the distributor where you purchased our product. Make sure you have the serial number and production year of the machine (stamped on the nameplate). For replacement parts refer to the assembly numbers on the parts list drawings.

Our technical staff will do their best to help you get your machine back in working order.

In this manual you will find: (when applicable)

- Safety procedures
- Correct installation guidelines
- Description of the functional parts of the machine
- Capacity charts
- Setup and start-up instructions
- Machine operation
- Scheduled maintenance
- Parts lists

GENERAL NOTES

After receiving your equipment remove the protective container. Do a complete visual inspection, and if damage is noted, **photograph it for insurance claims** and contact your carrier at once, requesting inspection. Also contact Baileigh Industrial Holdings LLC and inform them of the unexpected occurrence. Temporarily suspend installation.

Take necessary precautions while loading / unloading or moving the machine to avoid any injuries.

Your machine is designed and manufactured to work smoothly and efficiently. Following proper maintenance instructions will help ensure this. Try and use original spare parts, whenever possible, and most importantly; **DO NOT** overload the machine or make any modifications.



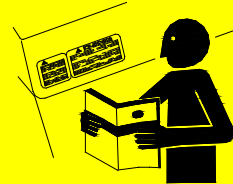
Note: This symbol refers to useful information throughout the manual.



IMPORTANT

PLEASE READ THIS OPERATORS MANUAL CAREFULLY

It contains important safety information, instructions, and necessary operating procedures. The continual observance of these procedures will help increase your production and extend the life of the equipment.



SAFETY INSTRUCTIONS

LEARN TO RECOGNIZE SAFETY INFORMATION

This is the safety alert symbol. When you see this symbol on your machine or in this manual, **BE ALERT TO THE POTENTIAL FOR PERSONAL INJURY!**



Follow recommended precautions and safe operating practices.

UNDERSTAND SIGNAL WORDS

A signal word – **DANGER**, **WARNING**, or **CAUTION** – is used with the safety alert symbol. **NOTICE**, which is not related to personal injury, is used without a symbol.

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, could result in death or serious injury.

CAUTION: Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE: Indicates a situation which, if not avoided, could result in property damage.

DANGER

WARNING

CAUTION

NOTICE

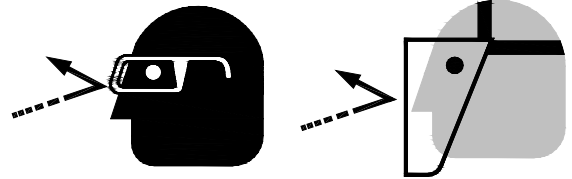


SAVE THESE INSTRUCTIONS.
Refer to them often and use them to instruct others.



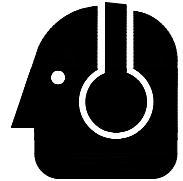
PROTECT EYES

Wear safety glasses or suitable eye protection when working on or around machinery.



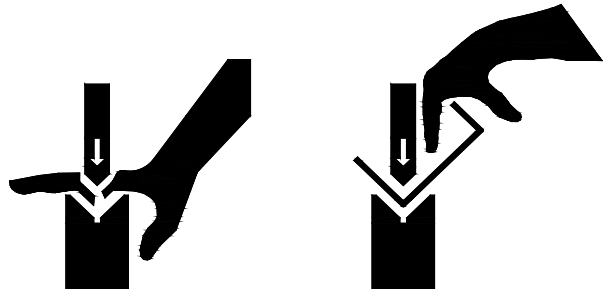
PROTECT AGAINST NOISE

Prolonged exposure to loud noise can cause impairment or loss of hearing. Wear suitable hearing protective devices such as ear muffs or earplugs to protect against objectionable or uncomfortable loud noises.



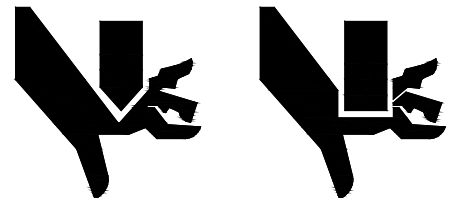
BEWARE OF CRUSH HAZARD

NEVER place your hands, fingers, or any part of your body in the die area of this machine.



BEWARE OF SHEAR, PINCH, AND CRUSH HAZARD

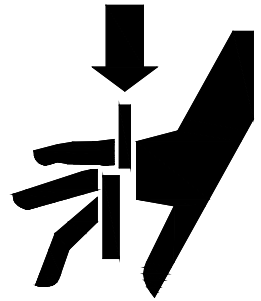
NEVER place your hands, fingers, or any part of your body in the die area of this machine. Keep hands and fingers away from the shear blade and the punching and notching dies when the machine is in operation.





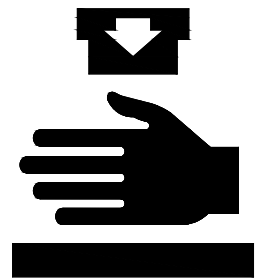
BEWARE OF SHEAR HAZARD

Keep hands and fingers clear from under the blade.
NEVER place your hand or any part of your body in this machine.



BEWARE OF CRUSH HAZARD

NEVER place your hands, fingers, or any part of your body in the die area of this machine.



CALIFORNIA PROPOSITION 65

WARNING: Cancer and Reproductive Harm.
www.P65Warnings.ca.gov





SAFETY PRECAUTIONS



Metal working can be dangerous if safe and proper operating procedures are not followed. As with all machinery, there are certain hazards involved with the operation of the product. Using the machine with respect and caution will considerably lessen the possibility of personal injury. However, if normal safety precautions are overlooked or ignored, personal injury to the operator may result.

Safety equipment such as guards, hold-downs, safety glasses, dust masks and hearing protection can reduce your potential for injury. But even the best guard will not make up for poor judgment, carelessness or inattention. **Always use common sense** and exercise **caution** in the workshop. If a procedure feels dangerous, don't try it.

REMEMBER: Your personal safety is your responsibility.



**WARNING: FAILURE TO FOLLOW THESE RULES MAY RESULT IN
SERIOUS PERSONAL INJURY**

Dear Valued Customer:

- All Baileigh machines should be used only for their intended use.
- Baileigh does not recommend or endorse making any modifications or alterations to a Baileigh machine. Modifications or alterations to a machine may pose a substantial risk of injury to the operator or others and may do substantial damage to the machine.
- Any modifications or alterations to a Baileigh machine will invalidate the machine's warranty.

PLEASE ENJOY YOUR BAILEIGH MACHINE!PLEASE ENJOY IT SAFELY!

1. **FOR YOUR OWN SAFETY, READ INSTRUCTION MANUAL BEFORE OPERATING THE MACHINE.** Learn the machine's application and limitations as well as the specific hazards.
2. **Only trained and qualified personnel can operate this machine.**
3. **Make sure guards are in place and in proper working order before operating machinery.**
4. **Remove any adjusting tools.** Before operating the machine, make sure any adjusting tools have been removed.
5. **Keep work area clean.** Cluttered areas invite injuries.
6. **Overloading machine.** By overloading the machine, you may cause injury from flying parts. **DO NOT** exceed the specified machine capacities.
7. **Dressing material edges.** Always chamfer and deburr all sharp edges.



8. **Do not force tool.** Your machine will do a better and safer job if used as intended. **DO NOT** use inappropriate attachments in an attempt to exceed the machine's rated capacity.
9. **Use the right tool for the job.** **DO NOT** attempt to force a small tool or attachment to do the work of a large industrial tool. **DO NOT** use a tool for a purpose for which it was not intended.
10. **Dress appropriately.** **DO NOT** wear loose fitting clothing or jewelry as they can be caught in moving machine parts. Protective clothing and steel toe shoes are recommended when using machinery. Wear a restrictive hair covering to contain long hair.
11. **Use eye protection.** Always wear ISO approved protective eye wear when operating machinery. Wear a full-face shield if you are producing metal filings. Eye wear shall be impact resistant, protective safety glasses with side shields which comply with ANSI Z87.1 specification. Use of eye wear which does not comply with ANSI Z87.1 specification could result in severe injury from breakage of eye protection.
12. **Do not overreach.** Maintain proper footing and balance at all times. **DO NOT** reach over or across a running machine.
13. **Stay alert.** Watch what you are doing and use common sense. **DO NOT** operate any tool or machine when you are tired.
14. **Check for damaged parts.** Before using any tool or machine, carefully check any part that appears damaged. Check for alignment and binding of moving parts that may affect proper machine operation.
15. **Observe work area conditions.** **DO NOT** use machines or power tools in damp or wet locations. Do not expose to rain. Keep work area well lighted. **DO NOT** use electrically powered tools in the presence of flammable gases or liquids.
16. **Blade adjustments and maintenance.** Always keep blades sharp and properly adjusted for optimum performance.
17. **Keep children away.** Children must never be allowed in the work area. **DO NOT** let them handle machines, tools, or extension cords.
18. Keep visitors a safe distance from the work area.
19. **Store idle equipment.** When not in use, tools must be stored in a dry location to inhibit rust. Always lock up tools and keep them out of reach of children.
20. **DO NOT operate machine if under the influence of alcohol or drugs.** Read warning labels on prescriptions. If there is any doubt, **DO NOT** operate the machine.



TECHNICAL SPECIFICATIONS

Capacity	3 tons (2.6 tons)
Maximum capacity of Louver Die	19ga (0.0418") [1.0mm]
Maximum capacity of Corner Notcher	19ga (0.0418") [1.0mm]
Maximum capacity of Shear Kit	18ga (0.0478") [1.2mm]
Maximum capacity of 90° Bending Die	18ga (0.0478") [1.2mm]
Throat Depth	3-3/4" x 12" (95 x 305mm)
Stroke	3" (76mm)
Stand	Included
Power	Manual
Shipping Weight	165 lbs. (75kgs) 60 lbs. (27kgs)
Shipping Dimensions	28" x 17" x 28" (711 x 432 x 711mm)
	36" x 25" x 10" (915 x 635 x 254mm)
Based on a material tensile strength of 64000 PSI – mild steel	



Note: During punching operations, material thickness should not exceed the punch diameter being used.

TECHNICAL SUPPORT

Our technical support department can be reached at 920.684.4990 and asking for the support desk for purchased machines. Tech Support handles questions on machine setup, schematics, warranty issues, and individual parts needs: (other than die sets and blades).

For specific application needs or future machine purchases contact the Sales Department at: Baileigh-Service@jpwindustries.com, Phone: 920.684.4990, or Fax: 920.684.3944.



Note: The photos and illustrations used in this manual are representative only and may not depict the actual color, labeling or accessories and may be intended to illustrate technique only.



Note: The specifications and dimensions presented here are subject to change without prior notice due to improvements of our products.



UNPACKING AND CHECKING CONTENTS

Your Baileigh machine is shipped complete. Separate all parts from the packing material and check each item carefully. Make certain all items are accounted for before discarding any packing material.



WARNING: SUFFOCATION HAZARD! Immediately discard any plastic bags and packing materials to eliminate choking and suffocation hazards to children and animals.

If any parts are missing, **DO NOT** place the machine into service until the missing parts are obtained and installed correctly.

Cleaning



WARNING: DO NOT USE gasoline or other petroleum products to clean the machine. They have low flash points and can explode or cause fire.



CAUTION: When using cleaning solvents work in a well-ventilated area. Many cleaning solvents are toxic if inhaled.

Your machine may be shipped with a rustproof waxy coating and/or grease on the exposed unpainted metal surfaces. Fully and completely remove this protective coating using a degreaser or solvent cleaner. Moving items will need to be moved along their travel path to allow for cleaning the entire surface. For a more thorough cleaning, some parts will occasionally have to be removed. **DO NOT USE** acetone or brake cleaner as they may damage painted surfaces.

Follow manufacturer's label instructions when using any type of cleaning product. After cleaning, wipe unpainted metal surfaces with a light coating of quality oil or grease for protection.



Important: This waxy coating is **NOT** a lubricant and will cause the machine to stick and lose performance as the coating continues to dry.



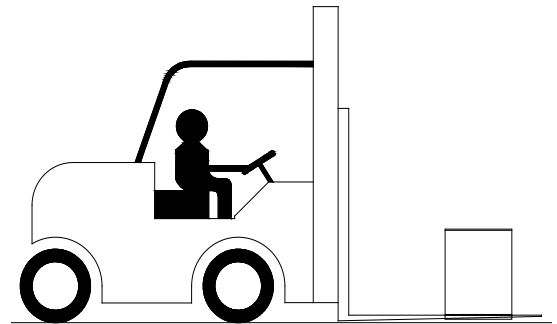


TRANSPORTING AND LIFTING

NOTICE: *Lifting and carrying operations should be carried out by skilled workers, such as a truck operator, crane operator, etc. If a crane is used to lift the machine, attach the lifting chain carefully, making sure the machine is well balanced.*

Follow these guidelines when lifting with truck or trolley:

- The lift truck must be able to lift at least 1.5 – 2 times the machines gross weight.
- Make sure the machine is balanced. While transporting, avoid rough or jerky motion, and maintain a safe clearance zone around the transport area.
- Use a forklift with sufficient lifting capacity and forks that are long enough to reach the complete width of the machine.
- Remove the securing bolts that attach the machine to the pallet.
- Approaching the machine from the side, lift the machine on the frame taking care that there are no cables or pipes in the area of the forks.
- Move the machine to the required position and lower gently to the floor.
- Level the machine so that all the supporting feet are taking the weight of the machine and no rocking is taking place.



INSTALLATION

IMPORTANT:

Consider the following when looking for a suitable location to place the machine:

- Overall weight of the machine.
- Weight of material being processed.
- Sizes of material to be processed through the machine.
- Space needed for auxiliary stands, worktables, or other machinery.
- Clearance from walls and other obstacles.
- Maintain an adequate working area around the machine for safety.
- Have the work area well illuminated with proper lighting.
- Keep the floor free of oil and make sure it is not slippery.



- Remove scrap and waste materials regularly, and make sure the work area is free from obstructing objects.
- If long lengths of material are to be fed into the machine, make sure that they will not extend into any aisles.
- **LEVELING:** The machine should be sited on a level, concrete floor. Provisions for securing it should be in position prior to placing the machine. The accuracy of any machine depends on the precise placement of it to the mounting surface.
- **FLOOR:** This machine distributes a large amount of weight over a small area. Make certain that the floor is capable of supporting the weight of the machine, work stock, and the operator. The floor should also be a level surface. If the unit wobbles or rocks once in place, be sure to eliminate by using shims.
- **WORKING CLEARANCES:** Take into consideration the size of the material to be processed. Make sure that you allow enough space for you to operate the machine freely.

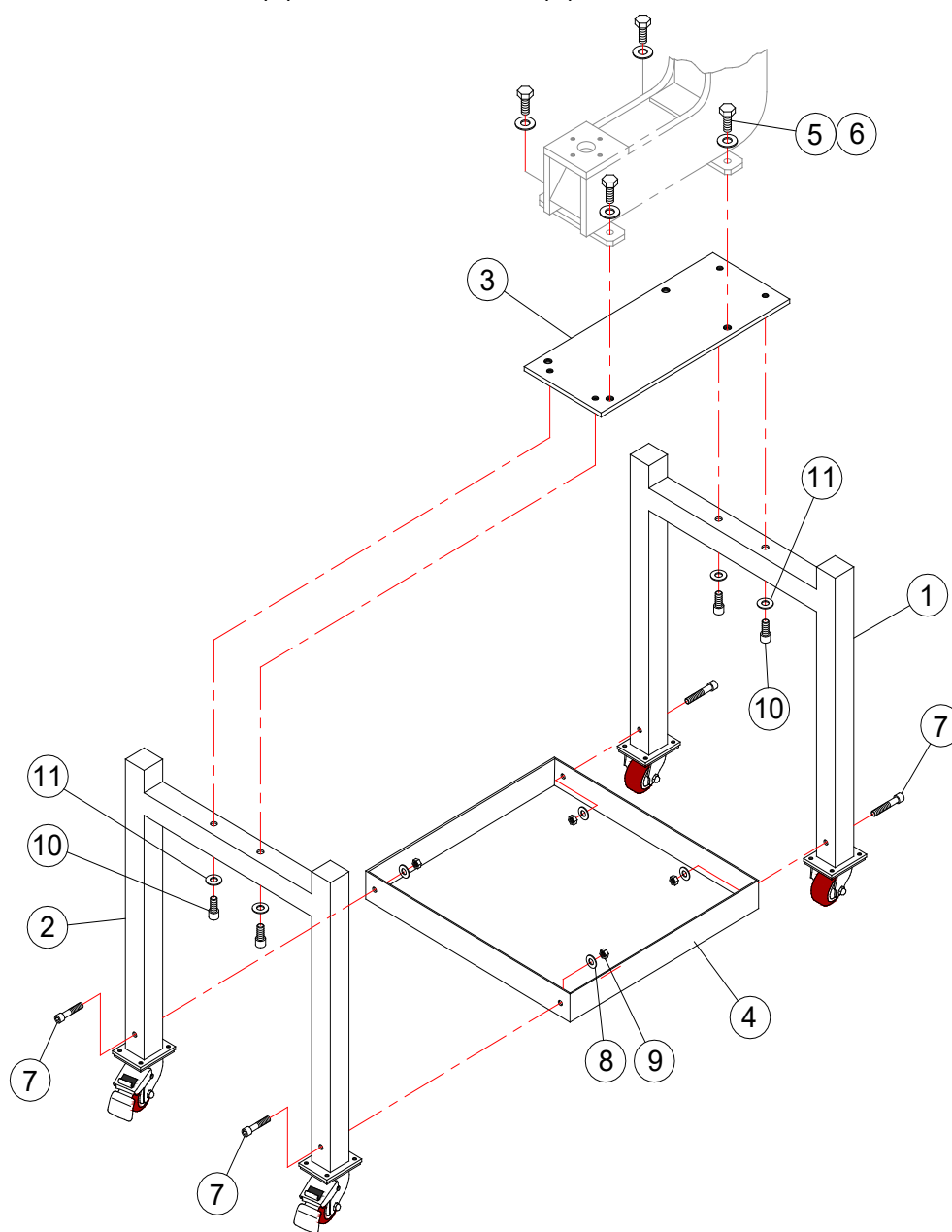
If you intend to mount the Baileigh machine on a workbench be aware of the following:

- Overall weight of the machine.
- Weight of material being processed.
- Make sure the workbench is properly reinforced to support the weight.
- The strongest mounting option is where the holes are drilled all the way through the workbench and the machine is secured with bolts, washers, and nuts.



ASSEMBLY AND SET UP

1. Attach the tray (4) to the back legs (1) and the front leg (2) with four socket screws (7), flat washers (8), and hex nuts (9).
2. Set the mounting plate (3) onto the leg assemblies as shown and secure from the bottom up with four socket capscrews (10), flat washers (11).  **Note:** Bolts (10) must be flush with the top of plate (3).
3. Lock the front wheels of the stand. Place the press onto the mounting plate (3) and secure with four hex socket screws (5) and flat washers (6).





OPERATION



CAUTION: Always wear proper eye protection with side shields, safety footwear, and leather gloves to protect from burrs and sharp edges. When handling large heavy materials make sure they are properly supported.

1. Find a suitable location to operate the bench press.
2. Select the tooling required to suit your particular application.



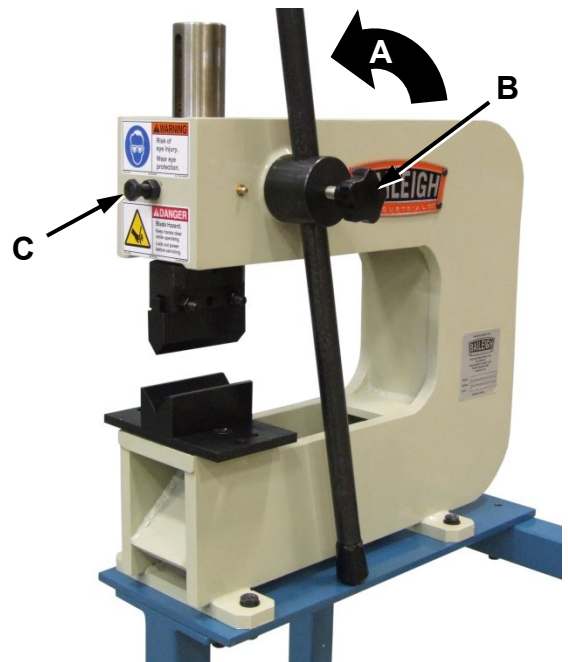
Note: The tooling identification drawings are at the back of this manual. Tooling for the BP-3 Bench Press can be purchased from Baileigh Industrial at (920) 684-4990.

3. Attach the tooling to the bench press. Use the tooling identification drawing(s) as a guide. Make sure all fasteners are securely tightened.
4. Before using the press, make sure the upper tooling lines up correctly with the lower tooling.



IMPORTANT: Failure align the tooling could result in operator injury or tooling damage.

5. Place the piece part onto the lower tooling. Pull down the handle (A) as shown to lower the top tooling into the lower tooling, thus completing the operation.
6. To get more leverage on the down stroke, loosen the star knob (B) and slide the handle fully upward. Retighten the star knob.
7. The hex guide bolt with jam nut (C) is used to stabilize the ram.
8. Tighten the bolt enough to hold the ram in position, and then loosen the bolt 1/32-1/16 of a turn. Hold the bolt in position and tighten the jam nut. The ram should move up and down with no or very little notice of drag on the bolt.



Note: Baileigh BP-3 Bench Press shown with the 90° bend kit attached.



BENDING ALLOWANCE

In order to bend sheet metal accurately, you will need to consider the total length of each bend. This is referred to as bend allowance. Subtract the bend allowance from the sum of the outside dimensions of the piece part to obtain the actual overall length or width of the piece. Because of differences in sheet metal hardness, and whether the bend is made with the grain or against it, exact allowances must sometimes be made by trial and error. However bend allowances for general use can be obtained from metal working books or from the Internet.

UNDERSTANDING SPRINGBACK

Springback, also known as elastic recovery, is the result of the metal wanting to return to its original shape after undergoing compression and stretch. After the bending leaf is removed from the metal and the load is released, the piece part relaxes, forcing the bent portion of the metal to return slightly to its original shape. The key to obtaining the correct bend angle is to over bend the metal a little and allow it to spring back to the desired angle. All metals exhibit a certain amount of spring back.

MATERIAL SELECTION



CAUTION: It must be determined by the customer that materials being processed through the machine are NOT potentially hazardous to operator or personnel working nearby.

When selecting materials keep these instructions in mind:

- Material must be clean and dry. (without oil)
- Material should have a smooth surface so it processes easily.
- Dimensional properties of material must be consistent and not exceed the machine capacity values.
- Chemical structure of material must be consistent.
- Buy certificated steel from the same vendor when possible.



LUBRICATION AND MAINTENANCE



WARNING: Maintenance should be performed on a regular basis by qualified personnel.
Always follow proper safety precautions when working on or around any machinery.

- Check daily for any unsafe conditions and fix immediately.
- Check that all nuts and bolts are properly tightened.
- On a weekly basis clean the machine and the area around it.
- Lubricate threaded components and sliding devices.
- Apply rust inhibitive lubricant to all non-painted surfaces.
- Inspect the gear and shaft for any tooth wear or damage.
- Make sure there is adequate grease on the gear.
- Keep the ram shaft lubricated using the grease fittings as indicated in fig. 5 & 6.

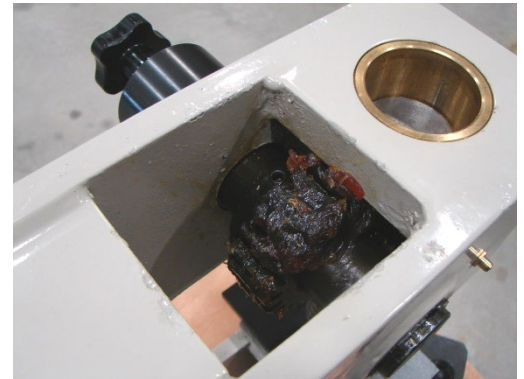


figure 4

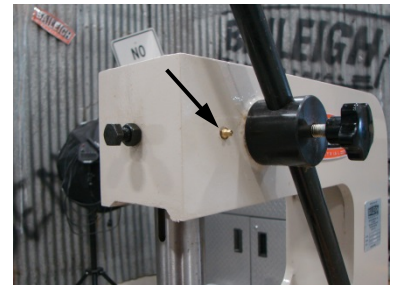


figure 5

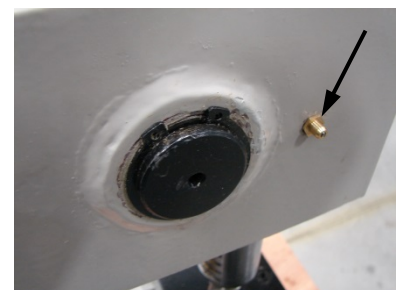


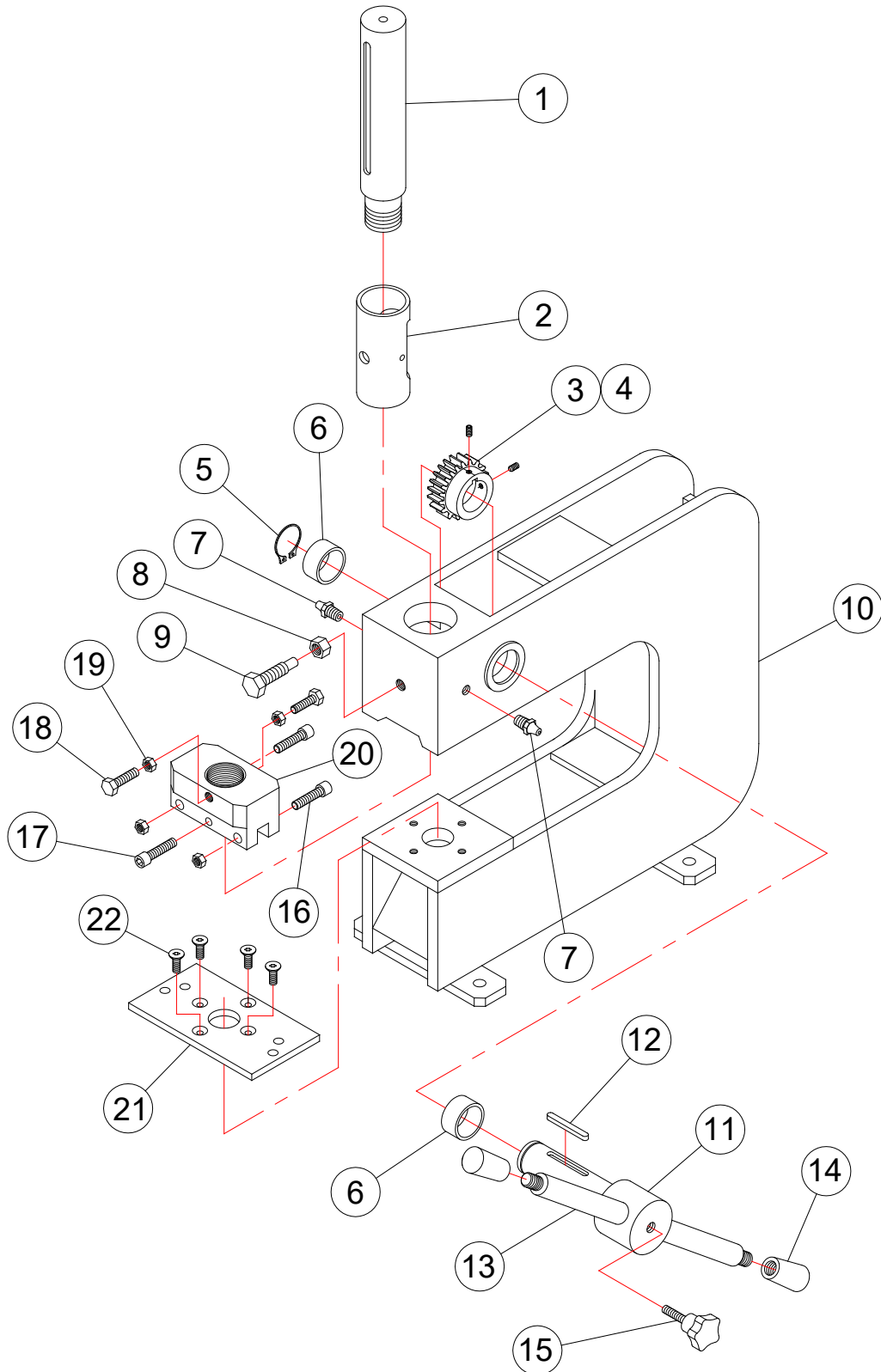
figure 6



Note: Proper maintenance can increase the life expectancy of your machine.



PRESS PARTS IDENTIFICATION DRAWING



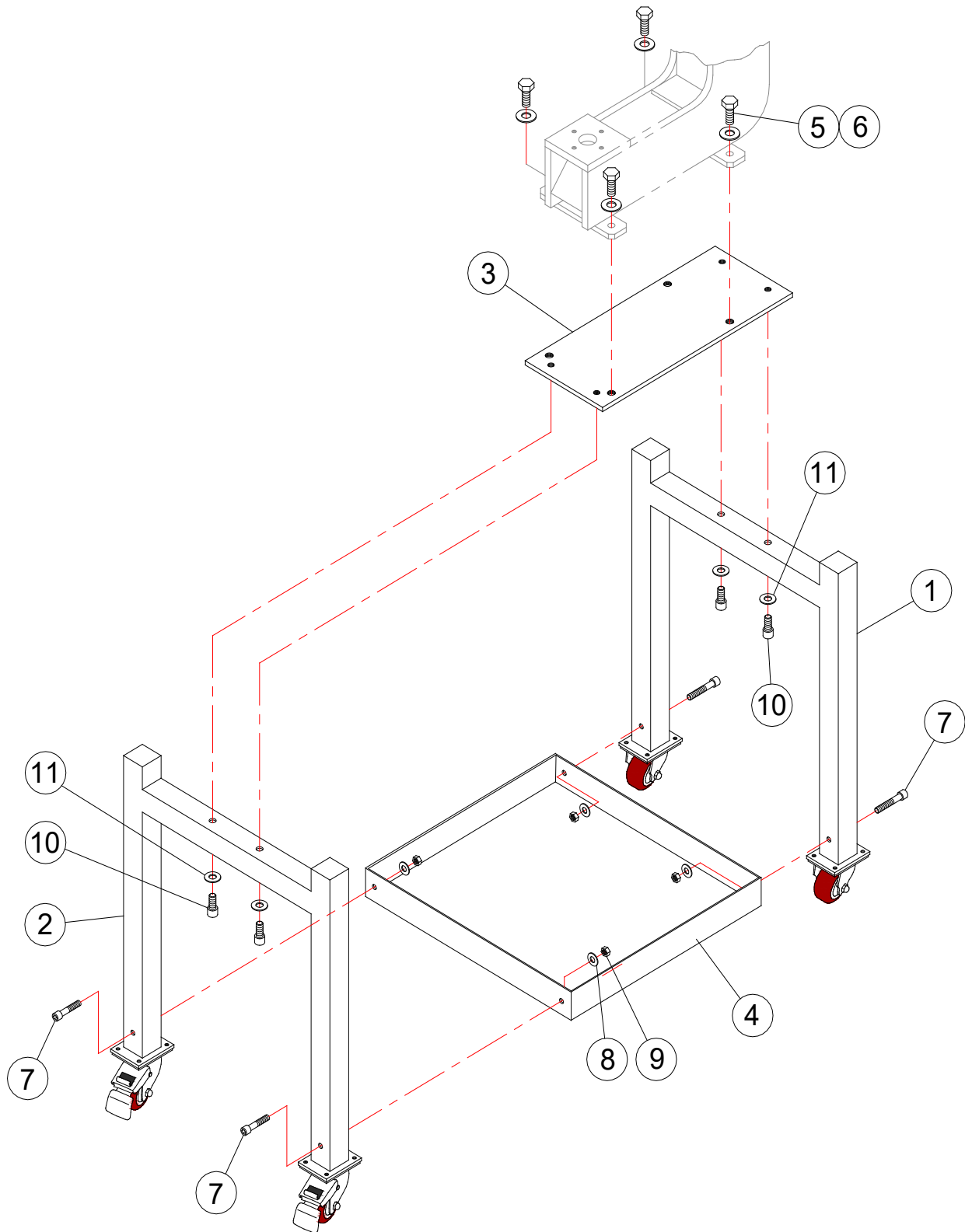


Press Parts Identification List

Item	Part No.	Description	Qty.
1	BP3-P1	Ram	1
2	BP3-P2	Bronze Bushing	1
3	BP3-P3	Set Screw	1
4	BP3-P4	Gear	1
5	BP3-P5	Snap Ring	1
6	BP3-P6	Bushing	2
7	BP3-P7	Grease Fitting 5/16"-24	2
8	BP3-P8	Hex Nut M12	1
9	BP3-P9	Hex Bolt M12	1
10	BP3-P10	Press Frame	1
11	BP3-P11	Gear Shaft	1
12	BP3-P12	Key	1
13	BP3-P13	Handle	1
14	BP3-P14	Handle Knob	2
15	BP3-P15	Star-Shaped Knob	1
16	BP3-P16	Socket Capscrew M8 x 45mm	2
17	BP3-P17	Socket Capscrew M8 x 40mm	1
18	BP3-P18	Hex Bolt M8 x 30mm	1
19	BP3-P19	Hex Nut M8	4
20	BP3-P20	Tooling Adapter	1
21	BP3-P21	Tool Mounting Plate	1
22	BP3-P22	Soc. Flat Head Screws M8 x 20mm	4



PRESS PARTS IDENTIFICATION DRAWING



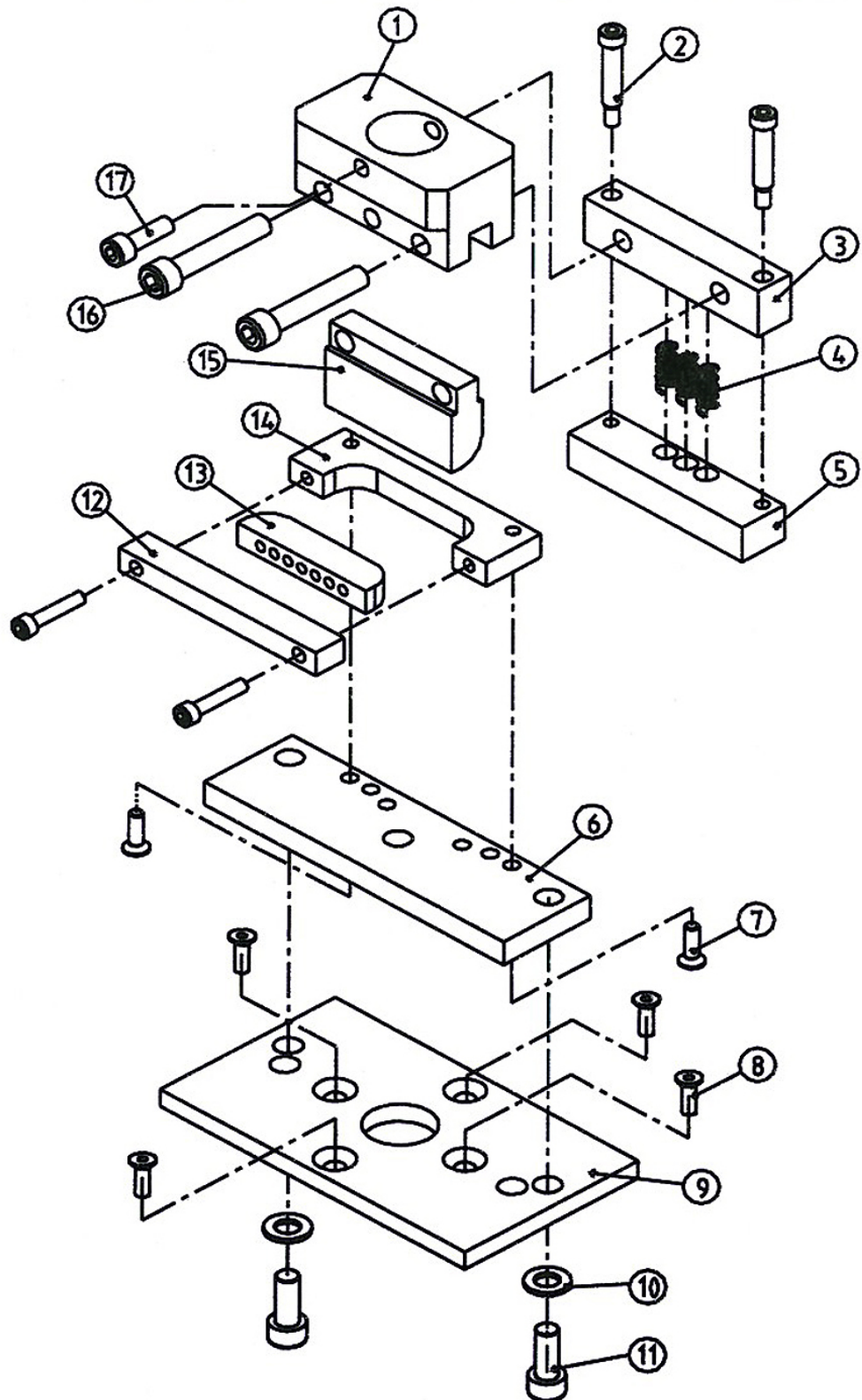


Press Parts Identification List

Item	Part No.	Description	Qty.
1	BP3-ST1	Rear Leg Frame	1
2	BP3-ST2	Front Leg Frame	1
3	BP3-Mounting Plate	Mounting Plate	1
4	BP3-ST4	Pan / Brace	1
5	BP3-ST5	Socket Head Cap Screw M10-1.5 x 26	4
6	BP3-ST6	Flat Washer M10	4
7	BP3-ST7	Socket Head Cap Screw M8-1.25 x 65	4
8	BP3-ST8	Flat Washer M8	4
9	BP3-ST9	Hex Nut M8	4
10	BP3-ST10	Socket Head Cap Screw M10-1.5 x 60	4
11	BP3-ST11	Flat Washer M10	4



BP-3 (LOUVER TOOLING) - OPTIONAL



BP3-1" Louver
BP3-2" Louver
BP3-3" Louver
BP3-4" Louver
BP3-5" Louver



BP-3 (Louver Tooling) Parts List - Optional

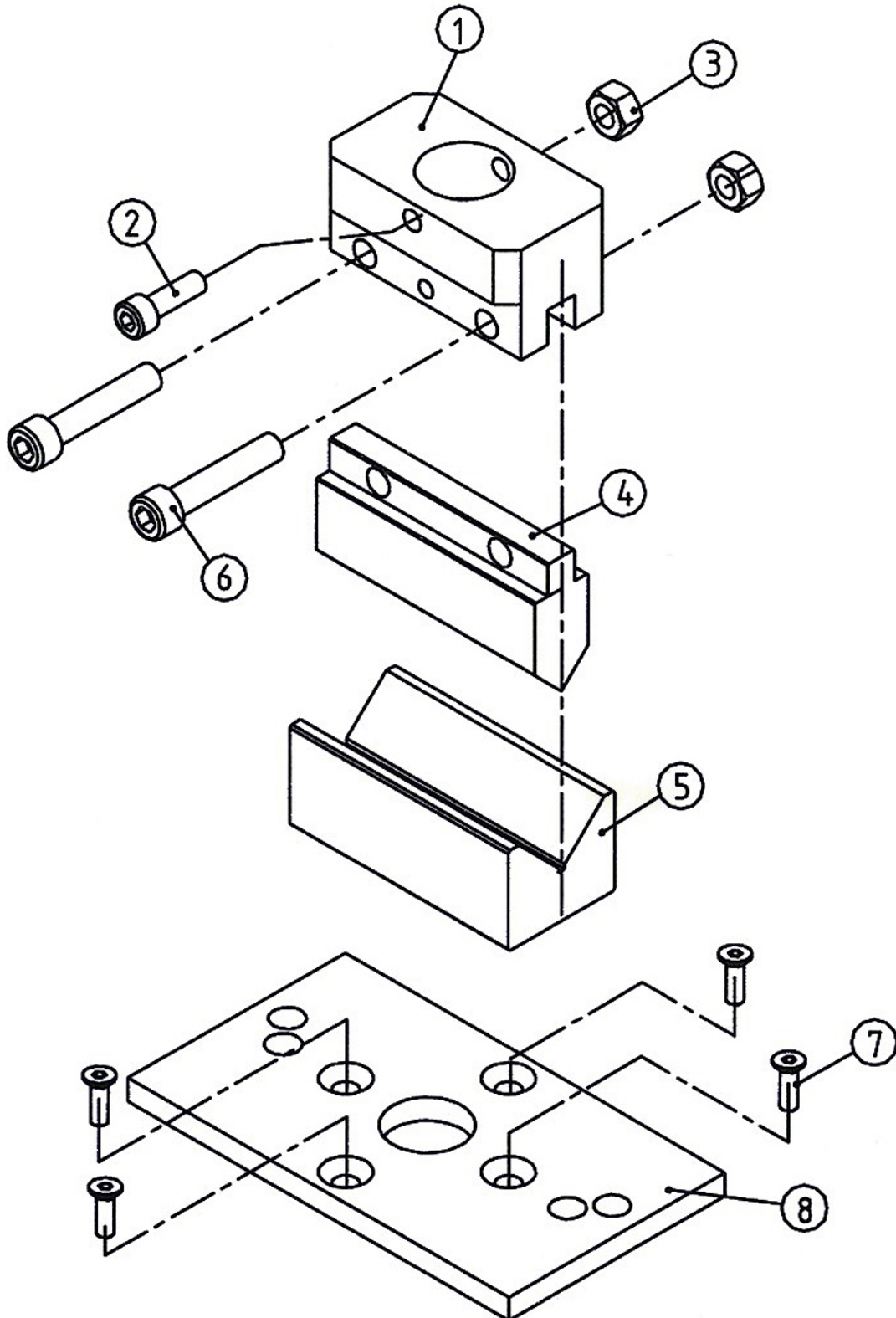


Note: The size of the louver must be specified when ordering louver parts.
Example: Replace the “-Size” with the specific dimension of -1”, or -2”, or -3”, or -4”, or -5”.

Item	Part No.	Description	Qty.
1	BP3-L-1	Base Plate	1
2	BP3-L-2	Shoulder Bolt	2
3	BP3-L-3-Size	Upper Spring Stop	1
4	BP3-L-4	Spring	3
5	BP3-L-5-Size	Lower Spring Stop	1
6	BP3-L-6-Size	Die Adapter Plate	1
7	BP3-L-7	Bolt M6 x 20	2
8	BP3-L-8	Bolt M8 x 20	4
9	BP3-L-9	Tooling Mounting Plate	1
10	BP3-L-10	Washer	2
11	BP3-L-11	Bolt M10 x 25	2
12	BP3-L-12-Size	Lower Blade	1
13	BP3-L-13-Size	Cushion	1
14	BP3-L-14-Size	Groove Die	1
15	BP3-L-15-Size	Upper Punch Blade	1
16	BP3-L-16	Bolt M10 x 55	1
17	BP3-L-17	Bolt M8 x 25	1



BP-3 (90° BEND TOOLING) - OPTIONAL



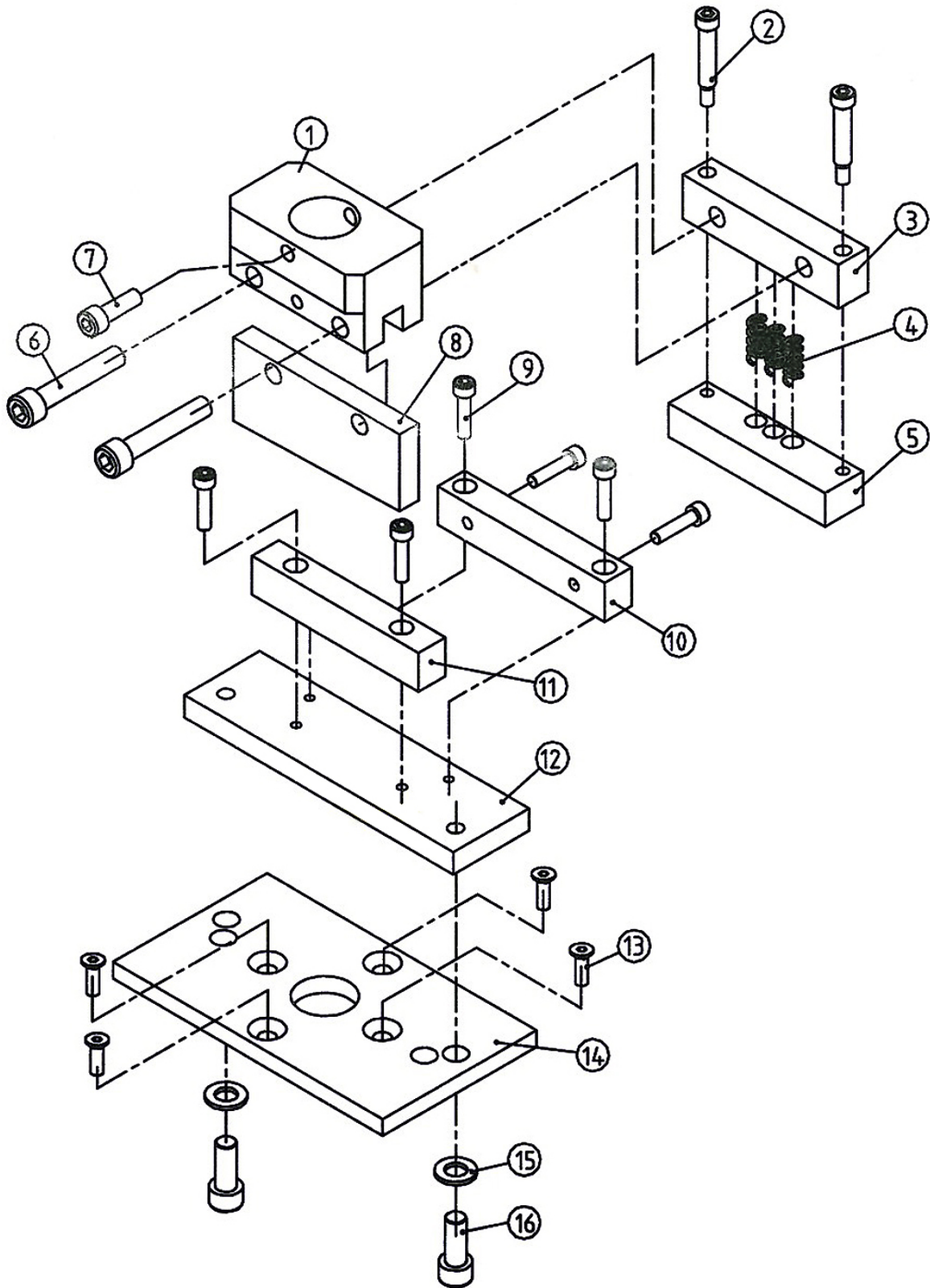


BP-3 (90° Bend Tooling) Parts List - Optional

Item	Part No.	Description	Qty.
1	BP3-BT1	Base Plate	1
2	BP3-BT2	Bolt M8 x 25	1
3	BP3-BT3	Nut M10	2
4	BP3-BT4	Upper Bend Tooling	1
5	BP3-BT5	Lower Bend Tooling Block	1
6	BP3-BT6	Bolt M10 x 50	2
7	BP3-BT7	Bolt M8 x 20	4
8	BP3-BT8	Tooling Mounting Plate	1



BP-3 (METAL SHEAR ATTACHMENT) - OPTIONAL



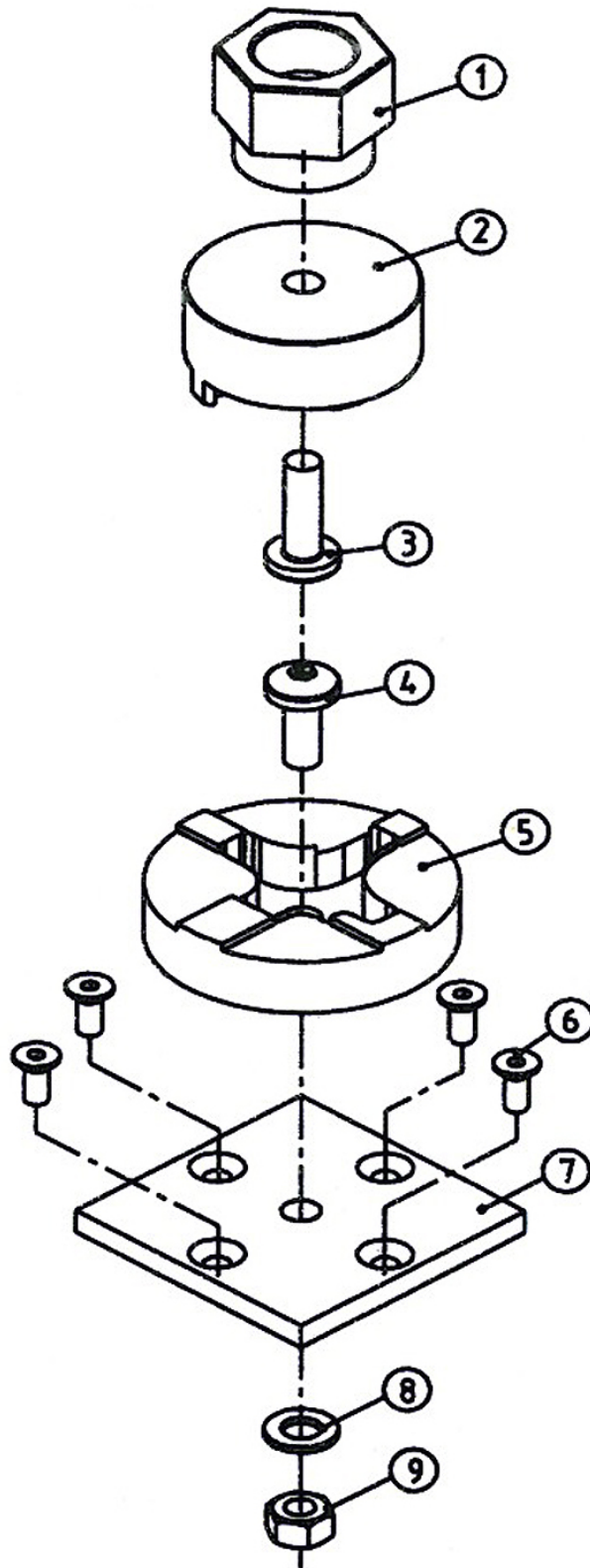


BP-3 (Metal Shear Attachment) Parts List - Optional

Item	Part No.	Description	Qty.
1	BP3-MSA1	Base Plate	1
2	BP3-MSA2	Bolt	2
3	BP3-MSA3	Upper Spring Stop	1
4	BP3-MSA4	Spring	3
5	BP3-MSA5	Lower Spring Stop	1
6	BP3-MSA6	Bolt M10 x 55	1
7	BP3-MSA7	Bolt M8 x 25	1
8	BP3-MSA8	Upper Blade	1
9	BP3-MSA9	Bolt M6 x 25	6
10	BP3-MSA10	Shear Plate	1
11	BP3-MSA11	Lower Blade	1
12	BP3-MSA12	Die Adapter Plate	1
13	BP3-MSA13	Bolt M8 x 20	4
14	BP3-MSA14	Tooling Mounting Plate	1
15	BP3-MSA15	Washer	2
16	BP3-MSA16	Bolt M10 x 25	2



BP-3 (RADIUS CORNER ATTACHMENT) - OPTIONAL



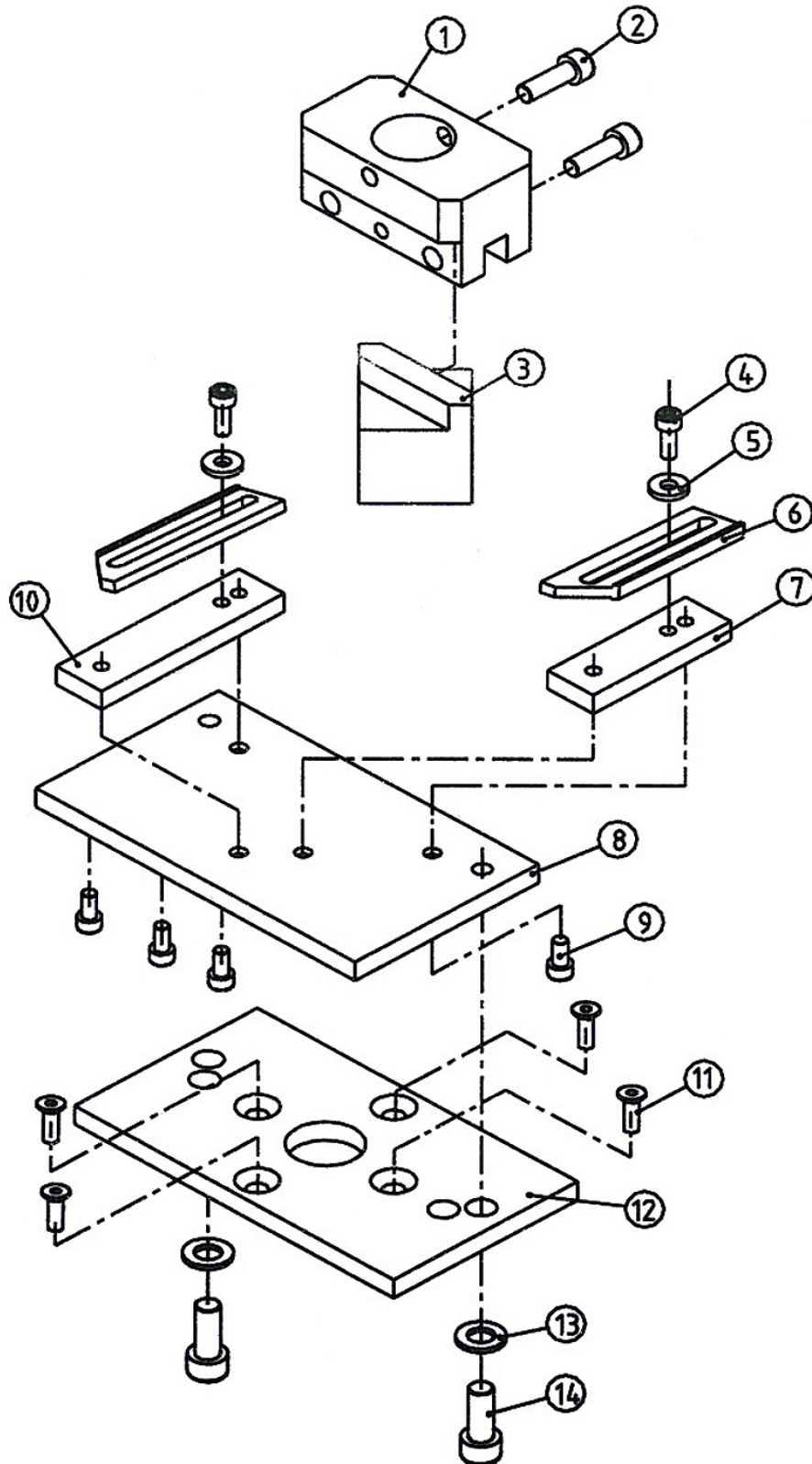


BP-3 (Radius Corner Attachment) Parts List - Optional

Item	Item	Description	Qty.
1	BP3-RCA1	Nut	1
2	BP3-RCA2	Corner Radius Upper Die	1
3	BP3-RCA3	Bolt M12 x 40	1
4	BP3-RCA4	Bolt M12 x 30	1
5	BP3-RCA5	Corner Radius Lower Die	1
6	BP3-RCA6	Bolt M8 x 20	4
7	BP3-RCA7	Tooling Mounting Plate	1
8	BP3-RCA8	Flat Washer M12	1
9	BP3-RCA9	Nut M12	1



BP-3 (CORNER NOTCHER) - OPTIONAL





BP-3 (Corner Notcher) Parts List - Optional

Item	Item	Description	Qty.
1	BP3-CN1	Base Plate	1
2	BP3-CN2	Shoulder Bolt M8 x 25	2
3	BP3-CN3	Corner Punch	1
4	BP3-CN4	Bolt M6 x 16	2
5	BP3-CN5	Washer	2
6	BP3-CN6	Corner Puncher Adjustable Stop	2
7	BP3-CN7	Die Plate Short	1
8	BP3-CN8	Bottom Plate	1
9	BP3-CN9	BoltM6 x 12	4
10	BP3-CN10	Die Plate Long	1
11	BP3-CN11	Bolt M8 x 20	4
12	BP3-CN12	Tooling Mounting Plate	1
13	BP3-CN13	Washer	2
14	BP3-CN14	Bolt M10 x 25	2

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