

BH-18

SHOTBLASTING HEAD

Owners Manual



BH-18 Serial # _____

Engine Serial # _____

Version 11/2015
Part # H-385

 bwmanufacturing.com

 (616) 447-9076

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NW Suite 20 Walker,
MI 49544

INDEX

INTRODUCTION.....	PAGE 3
TERMS & CONDITIONS OF SALE.....	PAGE 4 & 5
HAZ-MAT SAFTEY WARNING.....	PAGE 6
WARRANTY BREAKDOWN.....	PAGE 7
BLAST HEAD INSTALLITION.....	PAGE 8 & 9
BLAST HEAD OPERATION.....	PAGE 10
BLAST HEAD SERVICE.....	PAGE 11 - 13
BLAST HEAD PARTS.....	PAGE 14 - 20
BLAST HEAD LINER IDENTIFICATION CHART...	PAGE 21 & 22

INTRODUCTION

FORWARD

WARNING READ THIS MANUAL CAREFULLY PRIOR TO OPERATING THE EQUIPMENT IN ORDER TO UNDERSTAND HOW TO OPERATE AND SERVICE THE EQUIPMENT CORRECTLY. FAILURE TO PROPERLY REVIEW THIS MANUAL COULD RESULT IN PERSONAL INJURY OR EQUIPMENT DAMAGE.

This manual should be considered a permanent part of the equipment and should remain with the equipment at all times. Please note the following:

Measurements in this manual are given in metric and standard U.S. measurement equivalents.

Use only correct replacement parts and fasteners. Fasteners may require specific tools.

Right and left hand sides are determined by facing forward while sitting in the seat behind the steering wheel.

THIRD-PARTY MANUFACTURER INFORMATION

This equipment contains an engine manufactured by a third-party manufacturer. This engine may be covered by the manufacturer's standard factory warranty and the manufacturer may require that all repairs and/or service be completed pursuant to its warranty terms and conditions. Please refer to the product manual and Warranty Breakdown for additional information on this warranty and any registration requirements.

TERMS AND CONDITIONS OF SALE

1. **Parties.** "Seller" means **BW Manufacturing, Inc.** "Buyer" means any entity or individual purchasing goods from Seller.
2. **Terms and Conditions of Sale.** These Terms and Conditions of Sale define the relationship of Buyer and Seller and apply to all sales of equipment (including, but not limited to Shotblasters, Scarifiers, Diamond Grinders/Polishers, Concrete Dust Collection Systems, and Trailers), components incorporated into equipment, parts, supplies, materials or other personal property (individually and collectively, "Equipment") by Seller to Buyer. Buyer acknowledges and agrees that these Terms and Conditions of Sale are incorporated in, and are a part of, any contract of sale and each quotation, purchase order, invoice, and any other document relating to the sale of Equipment by Seller to Buyer (these documents are collectively referred to as the "Agreement").
3. **Quotation Expiration.** Written quotations signed by Seller are valid for a period of 30 days unless otherwise noted by Seller.
4. **Pricing.** Prices for Equipment and other related information shown in any Seller product publication, including but not limited to catalogs, brochures, and websites, are subject to change without notice. Prices do not include related freight charges, use tax, sales tax, excise tax, value-added tax, or similar taxes, or charges of any nature whatsoever imposed by any governmental authority unless otherwise expressly noted by Seller.
5. **Taxes.** Prices quoted do not include (and Buyer shall pay) all taxes and fees of any kind that may be levied or imposed on either party by federal, state, municipal, or other governmental authorities in connection with the sale or delivery of the Equipment by Seller.
6. **Terms of Payment.** Unless Buyer has obtained credit approval from Seller, payment is due and payable to Seller in cash on completion of Seller's delivery obligation (COD). For Buyers with credit approval, any amounts due by Buyer to Seller that are unpaid on or after 30 days of Seller's invoice will bear interest at the simple interest rate of 2 percent (2%) per month or the maximum rate permitted by law, whichever is less. The accrual or payment of any interest as provided above will not constitute a waiver by Seller of any rights and remedies in connection with a default by Buyer. Buyer will pay all court costs, attorney fees, and other costs incurred by Seller in collecting past-due amounts, including interest. If shipment or delivery of Equipment is delayed by or at the request of Buyer, payment will remain due in full on the original delivery date for Buyers without credit approval or 30 days from the date of Seller's invoice for Buyers with credit approval. In either such event, Seller may impose, and Buyer shall pay, storage charges and other incidental expenses incurred by Seller as a result of the delay in addition to any interest on late payments as described above.
7. **Security Interest.** As security for payment of all amounts due to Seller, Buyer grants to Seller a security interest in all Equipment sold by Seller to Buyer, and Seller will have all rights of a secured party under the Uniform Commercial Code with respect to the Equipment. Buyer appoints Seller as its attorney-in-fact with authority, at Seller's option, to take actions as Seller deems reasonable in the circumstance to perfect the above security interest in any one or more jurisdictions, and Buyer shall pay all applicable filing fees.
8. **Limited Express Warranty.** For a period of ninety (90) days from the completion of Seller's delivery obligation under this Agreement, Seller warrants that a limited selection of components manufactured by Seller and incorporated into the Equipment will be free of defects in material and workmanship. A complete list of components covered under this warranty ("Warranty Breakdown") and is incorporated in its entirety into this Agreement. In the event Buyer has a claim related to the components covered under this warranty, Buyer shall be bound by the then-current Warranty Breakdown. Buyer's sole remedy for breach of this warranty is limited to repair and replacement, within the warranty period, of defective components manufactured by Seller and covered under this warranty pursuant to the Warranty Breakdown. Buyer is responsible for all shipping costs arising out of any warranty service provided by Seller. SELLER EXPRESSLY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, WITH REGARDS TO THE EQUIPMENT AND/OR COMPONENTS MANUFACTURED BY SELLER AND INCORPORATED INTO THE EQUIPMENT, WHICH ARE NOT INCLUDED IN THE ABOVE REFERENCED WARRANTY, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. BUYER ASSUMES FULL RESPONSIBILITY THAT THE EQUIPMENT PURCHASED UNDER THE AGREEMENT MEETS THE SPECIFICATIONS AND/OR INTENDED USE OF BUYER, AND SELLER MAKES NO REPRESENTATION WITH RESPECT THERETO.
9. **Disclaimer of Third-Party Component Warranties.** THE SOLE REMEDY AVAILABLE TO BUYER WITH RESPECT TO DEFECTS IN THE COMPONENTS MANUFACTURED BY THIRD PARTIES WILL BE AGAINST THE THIRD PARTY MANUFACTURER UNDER ANY APPLICABLE MANUFACTURER'S WARRANTY TO THE EXTENT AVAILABLE TO BUYER. WITH REGARDS TO COMPONENTS MANUFACTURED BY THIRD PARTIES AND INCORPORATED INTO THE EQUIPMENT, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, RELATING TO THE COMPONENTS, WHETHER BASED ON BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

10. **No Consequential Damages.** IN NO EVENT WILL SELLER BE LIABLE OR RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL, EXEMPLARY, OR PUNITIVE DAMAGES, OR FOR EXPENSE OCCASIONED BY THE USE OF DEFECTIVE EQUIPMENT.

11. **Delivery.** Any delivery dates or other schedule of performance by Seller are approximations, and the sole obligation of Seller with respect to the schedule of delivery or performance will be to use commercially reasonable efforts to deliver the Equipment, or otherwise to perform, consistent with the reasonable demands of its business. In any event, Seller will have no liability to Buyer or any other person for delays in performance due to strikes or labor disputes of any type; accidents, fire, floods, acts of God, or actions by governmental authorities; acts, omissions, or delays of Buyer or any other third party; shortages of labor; or without limitation of the above, for any causes reasonably beyond the control of Seller.

12. **Title and Risk of Loss.** Title to and risk of loss to the Equipment will pass to Buyer on delivery by Seller F.O.B. Seller's place of business, located at 3706 Mill Creek Dr. NE, Comstock Park, Michigan, 49321.

13. **Inspection and Acceptance.** Buyer will have two (2) days from the date of delivery to inspect the Equipment for defects and nonconformance and to notify Seller, in writing, of any defects, nonconformance, or rejection of the Equipment. After this period, Buyer will be deemed to have irrevocably accepted the Equipment. After acceptance, Buyer will have no right to reject the Equipment for any reason or to revoke acceptance. Seller is not responsible for damage to the Equipment arising out of the shipment of the Equipment to Buyer. Claims for damage due to shipping must be made by Buyer to the freight carrier.

14. **Return of Equipment.** All returns will be pursuant to Seller's instructions. Buyer must contact Seller for a Return Material Authorization (RMA) before returning any Equipment. All returns must reference the RMA number along with the original invoice number and the reason for return.

15. **Cancellation or Termination.** In the event of cancellation of the Agreement by Buyer, or in the event of default under the Agreement by Buyer that is not cured within 30 days after notice by Seller, Buyer will pay to Seller on demand all direct and indirect costs (including, without limitation, all applicable restocking or cancellation charges, including reimbursement for direct costs assessed by the manufacturer) incurred directly or indirectly by Seller in connection with the Agreement, all as reasonably determined by Seller, plus any lost profit. In no event, however, will any amount payable by Buyer under the Agreement exceed the total price payable by Buyer for the Equipment.

16. **Modifications and Waiver—Entire Agreement.** The Agreement contains the entire agreement between Seller and Buyer and can be modified or rescinded only by a writing signed by both parties. If any term of the Agreement is held invalid or unenforceable, all other terms of the Agreement shall remain in effect. Any document submitted by Buyer to Seller confirming its intention to purchase Equipment described in the Agreement will be deemed to constitute a confirmation and acceptance of the Agreement, even if the document states terms in addition to or different from those in the Agreement. All agreements between Seller and Buyer will be solely under the terms and conditions of the Agreement and Seller objects to any and all additional or different terms contained in any document submitted to Seller by Buyer. Any execution by Seller of any other document submitted by Buyer in connection with the purchase of Equipment does not constitute acceptance of or agreement to any terms and conditions in addition to or different from those contained in the Agreement, but will constitute only acknowledgment of receipt of the document. In addition, Buyer's acceptance of these terms shall be conclusively presumed by Buyer's (i) acceptance of delivery of or (ii) payment for Equipment covered under the Agreement.

17. **Compliance with Laws.** Buyer will be responsible for compliance with any and all federal, state, or local laws or regulations respecting safety or respecting use of the Equipment and shall indemnify and hold Seller harmless from and against any and all claims of violations of laws or regulations or other claims of personal injury or property damage directly or indirectly related to the installation, maintenance, or operation of the Equipment.

18. **Export Control.** Equipment supplied by Seller may be subject to various export laws and regulations. It is the responsibility of the exporter and Buyer to comply with all laws and regulations. If any required export authorization is denied, Seller will be relieved of any further obligation related to the sale and delivery of the Equipment.

19. **Governing Law and Venue.** This Agreement will be governed by and construed in accordance with the laws of the State of Michigan. Buyer submits to personal jurisdiction in Michigan. Seller and Buyer agree that any action arising out of the sale of goods or services in accordance with this document will be brought, heard, and decided in a court located in Kent County, Michigan and

B W MANUFACTURING, INC.

GENERAL SAFETY & HAZARDOUS MATERIALS WARNING

WARNING SURFACE PREPARATION EQUIPMENT CAN BE DANGEROUS IF NOT OPERATED PROPERLY. THE OPERATOR IS RESPONSIBLE FOR THE SAFE OPERATION OF THIS EQUIPMENT. The operator must carefully read and follow any warnings or safety instructions provided with the equipment prior to operating the equipment. Do not remove any safety devices or warnings on the equipment.

WARNING FLOOR AND/OR DECK SURFACES MAY BE COATED WITH OR CONTAMINATED BY HAZARDOUS MATERIALS. Typical examples of hazardous materials include (i) tile mastic (likely to contain *asbestos*); (ii) stained areas near electrical equipment (potentially containing *PCBS*); (iii) paint (potentially containing *lead*); (iv) stained floor areas in chemical or other industrial facilities (potentially containing toxic *pesticides, cleaning fluids, solvents, or other harmful chemicals*).

WARNING Preparation equipment is used to remove surface material from a variety of surfaces. The surface preparation process often generates large amounts of dust and other small particles, which are released into the air. WHEN A SURFACE CONTAINS HAZARDOUS MATERIALS, EXPOSURE TO THE DUST GENERATED BY THE PREPARATION EQUIPMENT MAY POSE A HEALTH RISK. INSPECT ALL SURFACES FOR POSSIBLE CONTAMINATES PRIOR TO USING PREPARATION EQUIPMENT AND CONSULT HAZARDOUS MATERIAL EXPERTS AND GOVERNMENT AUTHORITIES BEFORE OPERATING PREPARATION EQUIPMENT ON SURFACES SUSPECTED OF CONTAINING HAZARDOUS MATERIALS.

WARNING BW MANUFACTURING, INC. IN NO WAY REPRESENTS THAT ITS PREPARATION EQUIPMENT IS SUITABLE OR APPROVED FOR REMOVING HAZARDOUS MATERIALS FROM CONTAMINATED SURFACES. DO NOT ATTEMPT TO USE ANY PREPARATION EQUIPMENT MANUFACTURED BY BW MANUFACTURING, INC. ON ANY CONTAMINATED SURFACE. It is the responsibility of the preparation equipment operator and/or the contractor using the preparation equipment to inspect the proposed worksite for contaminants and obtain approval from contamination experts and/or government authorities before using BW Manufacturing, Inc. preparation equipment. It is also the responsibility of any contractor using preparation equipment to inform its employees or subcontractors of all potential health risks associated with operating preparation equipment and to ensure its employees or subcontractors are protected from exposure to harmful materials.

BW MANUFACTURING, INC. IS NOT RESPONSIBLE FOR ANY INJURY, ILLNESS, DEATH, OR PROPERTY DAMAGE THAT MAY RESULT FROM IMPROPER USE OF ITS PREPARATION EQUIPMENT OR OTHER PRODUCTS

WARRANTY BREAKDOWN

Item	NONE	90 DAYS	1YEAR / 500 HR	2 YEARS /	WARRANTED
Chassis		O			B W Mfg., Inc.
Engine				O	John Deere
Clutch			O		Twin Disc
Compressor			O		B W Mfg., Inc
Hydraulics			O		John Deere
Dust Filters	O				B W Mfg., Inc.
BH-18 Blast Head		O			B W Mfg., Inc.
BH-16 Blast Head		O			B W Mfg., Inc.
Blast Paddles	O				B W Mfg., Inc.
SC-16 Scarifier Head		O			B W Mfg., Inc
Main Shaft	O				B W Mfg., Inc.
Scarifier Cage	O				B W Mfg., Inc.
DG-50 Grinding Head		O			B W Mfg., Inc.
Diamond Mount	O				B W Mfg., Inc.
Diamond Cutters	O				B W Mfg., Inc

WARRANTED BY:	Company to Contact
John Deere	Superior Diesel
	1-800-521-0956
Twin Disc	Palmer Johnson Distributor's
	1-800-641-4334
	Warehouse
	630-250-0370
B W Mfg., Inc.	B W Manufacturing, Inc.
	Voice: 616-447-9076
	Fax: 616-447-9078
	sales@bwmanufacturing.com
	Warranty does not include travel time

BH-18

BLAST HEAD INSTALLATION

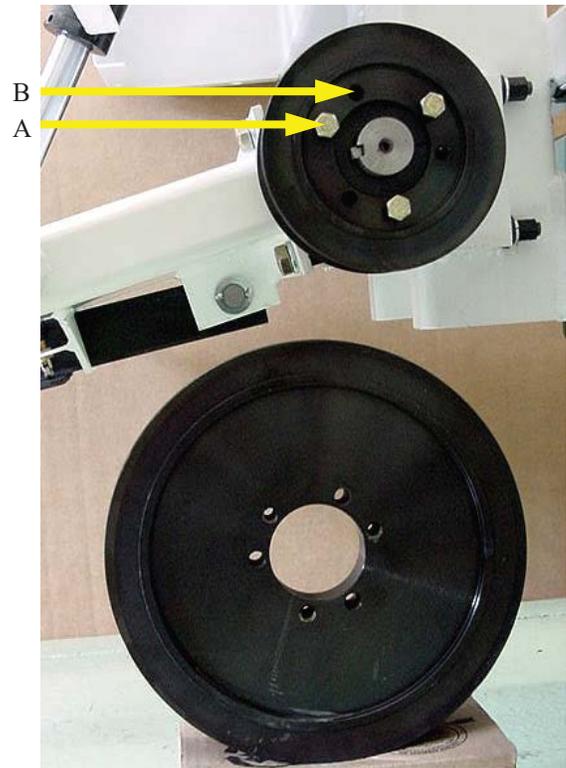
To Interchange Sprockets

Remove all three bolts (A).

Reinstall the three bolts into the threaded holes of the sprocket (B). Tighten bolts in small increments in a circular pattern until sprocket is released from the bushing. Then remove bolts from sprocket. Slide new sprocket on bushing. Install the three longer bolts through the sprocket into the bushing. Tighten bolts in small increments in a circular pattern. Tighten each bolt, **NOT** exceeding 35 foot pounds of torque. Reinstall three shorter bolts in threaded holes in sprocket and tighten.

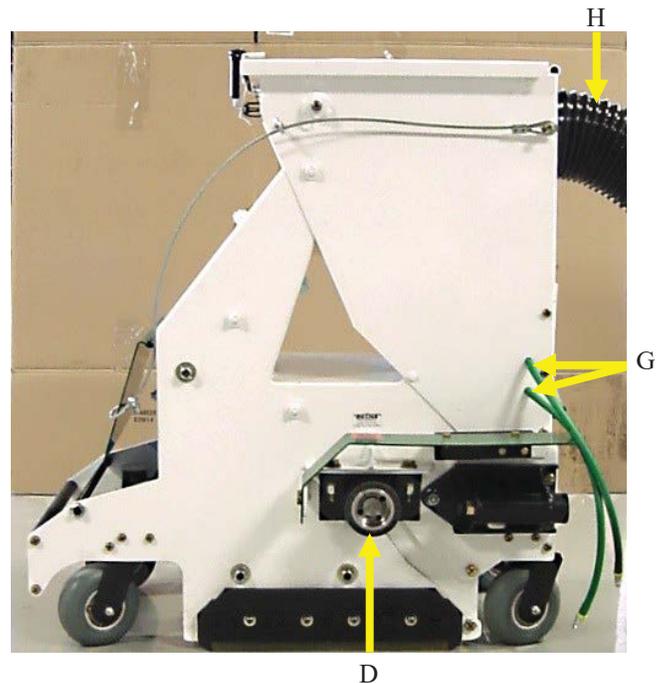
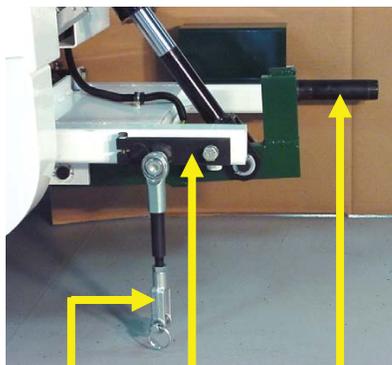
NOTE

Large sprocket H-101 is used for BH-18 and small sprocket C-1715-A is used for SC-16 and DG-50.



Blast Head Installation & Removal

Slide blast head backwards toward machine, sliding onto Lift Support Shaft (C), install drive belt over sprocket (D). Rotate Tension Shaft Arm (E). Connect Head Stop Rod (F) to blasthead. Connect both air lines (G) and Dust Collection Hose (H).



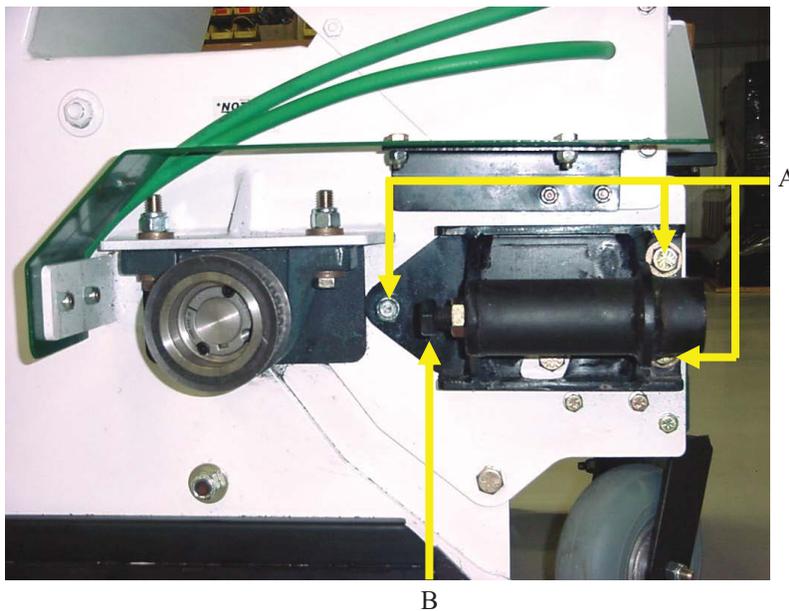
BH-18

BLAST HEAD INSTALLATION

Blast Head Adjustment

Install blast head on machine with the belt on loose. Sitting on level ground, loosen bolts (A). Once bolts are loose mount will self align, at this point re-tighten mounting bolts (A). With Tension Shaft Arm in the forward tension position, adjust the Tension Bolt (B) to set proper belt tension. Belt should be able to be twisted to a 90 degree angle (C)

(DO NOT over tighten drive belt, doing so may cause damage to machine and related parts.)

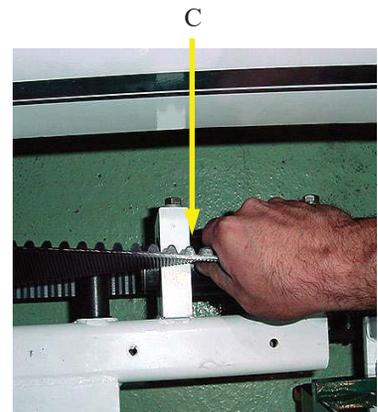


Belt Tension

Belt (A) should be able to be twisted to a 90 degree angle.

*****CAUTION*****

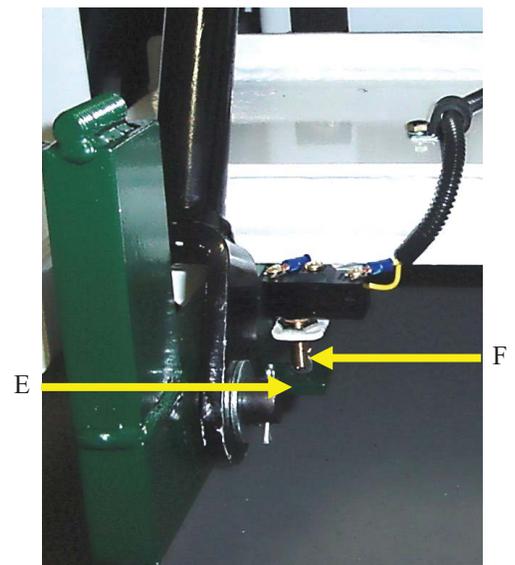
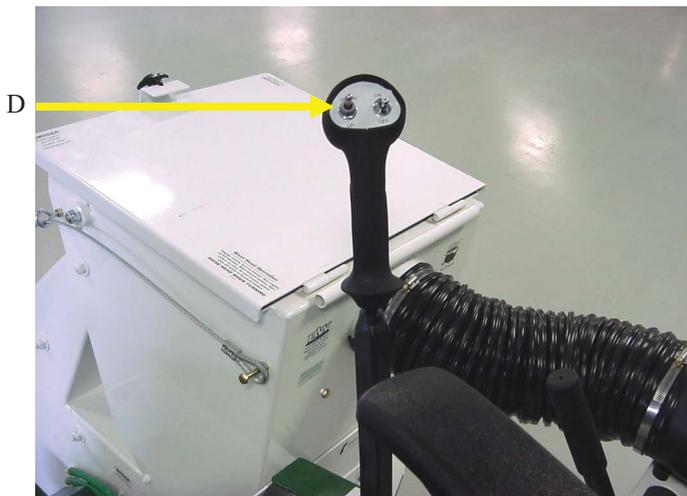
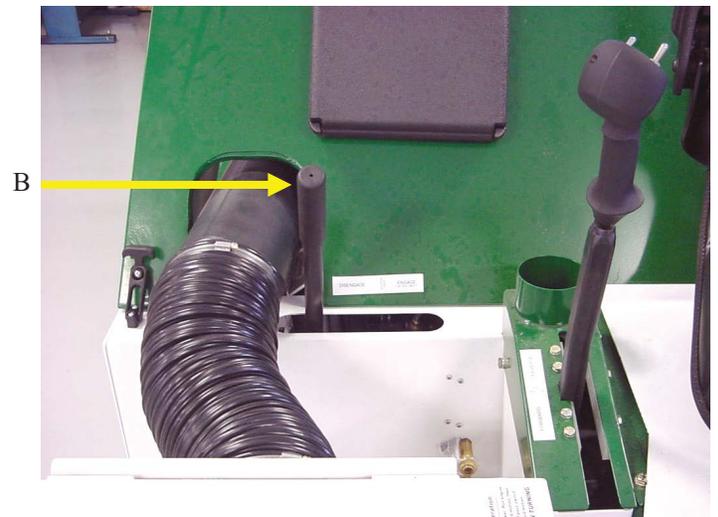
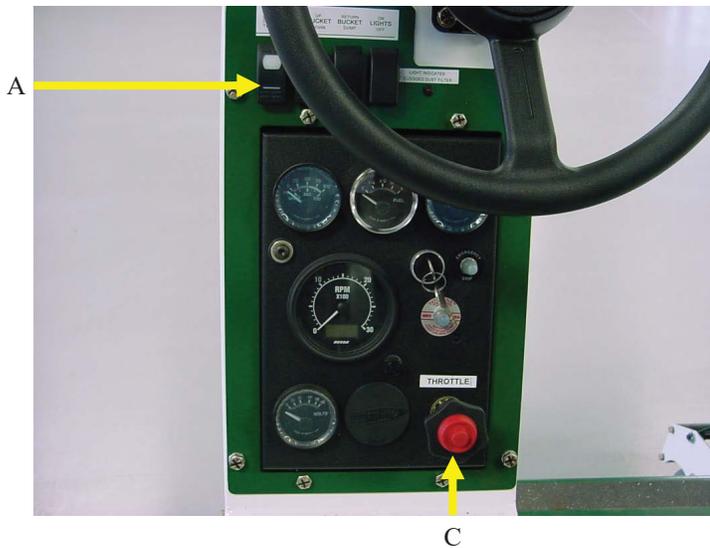
DO NOT over tighten drive belt, doing so may cause damage to machine and related parts.



BH-18 BLAST HEAD OPERATION

Blast Head Operation

Once machine is running, engage blower (A) and clutch (B), increase engine rpm with throttle (C) to wide open throttle. Use the control handle (D) to raise/lower the head and to turn the shot on and off. Make sure that the Blasthead is completely lowered, and the Lift Arm (E) is below the Safety Switch (F), place machine in forward motion then turn shot on, and at the end of each pass turn shot off while in forward motion. Raise head when repositioning.



BH-18 BLAST HEAD SERVICE

ENGINE SHOULD ***NOT*** DECREASE MORE THAN
85 RPM WHEN SHOT IS ENGAGED



Without Shot Load



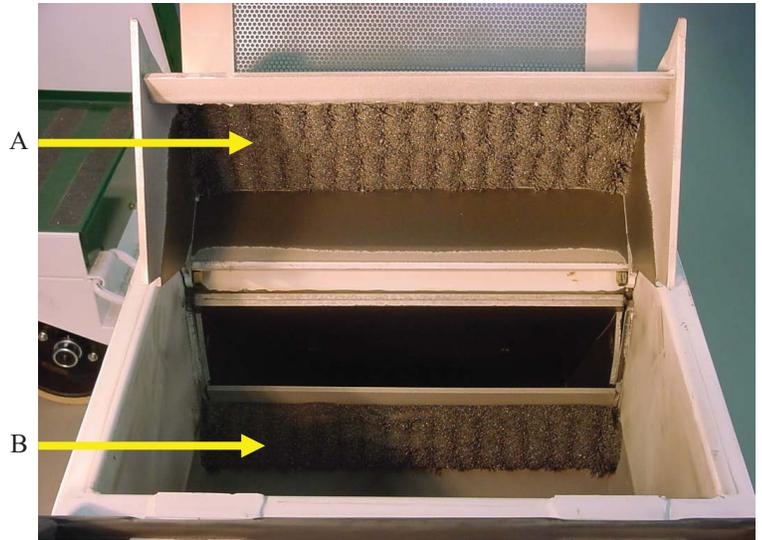
With Shot Load

BH-18

BLAST HEAD SERVICE

Shot Stop Assembly & Magnets

The magnets in the Shot Stop Assembly (A) and the housing (B) should be cleaned of heavy debris daily.



Blasthead Inspection

All liner and liner bolts should be inspected for wear each time a new set of blades are installed.



Floater Plates

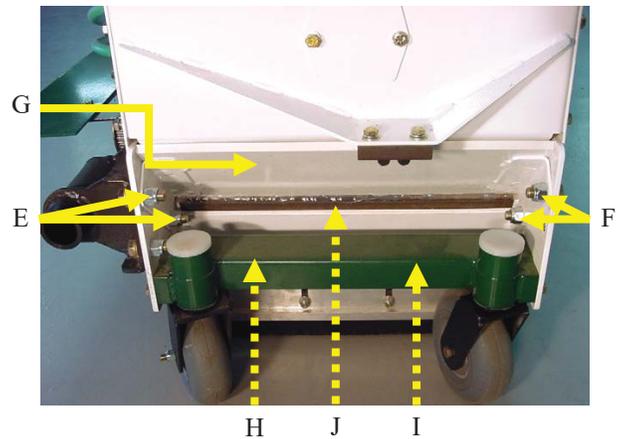
Side floater plates (C & D) should always move freely. If not, clean obstruction or remove and turn over to maintain straightness.

To Flip Upper & Lower Rear Liner

This can be done with the blast head connected to the machine or disconnected, or flipped forward for ease of repair.

Remove the Upper Rear Liner bolts (E&F) and remove, rotate, and reinstall liner (G).

Remove Lower Rear Liner nuts (H & I *not shown*) and remove, rotate, and reinstall liner (J *not shown*).



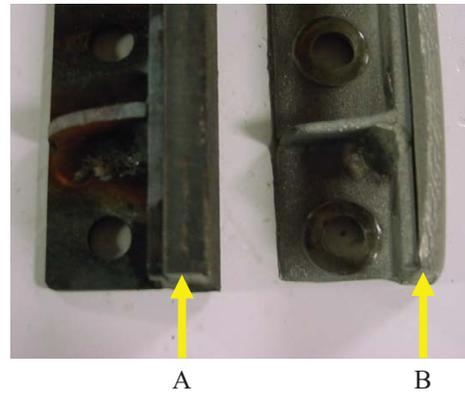
****Rotate Upper and Lower Rear Liners every two sets of blades or as needed****

BH-18 BLAST HEAD SERVICE

Blade Wear & Replacement

Blast Blade Wear

New blade will have all edges squared off (A).
Blade wear consists of the front side edge of the blade rolling over to rear edge of the blade (B).



Blade Replacement

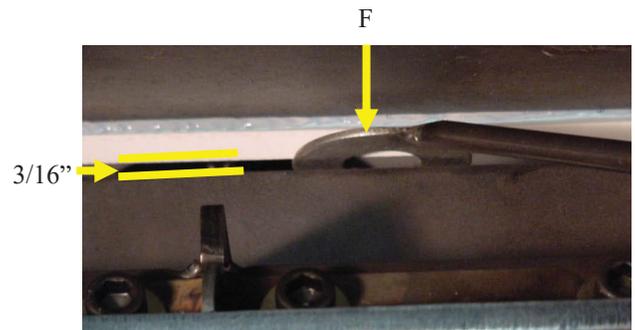
This can be done with the blast head connected to the machine or disconnected, or flipped forward for ease of repair.



Remove old blades and clean blade mounts (C) of any debris and inspect blast cage and main shaft. *Please note that the blades are balanced and must be replaced as a set.* For proper blade install use the supplied six socket head cap screws (D) (7/16-14X5/8) and six washers (E) (3/8USSFW) as shown. Tighten following the torque sequence to 65 foot lbs. There must be a minimum of **3/16"** clearance between blast blades and upper rear liner. Maximum clearance should not exceed **1/4"**. Check every blade for clearance (F) using a 3/16" thick flat washer (provided) or a piece of flat stock for a gauge. The gauge must move freely between the Upper Rear Liner every blade. To adjust blade clearance, loosen Blast Cage Main Bearings, set clearance and re-tighten bearings.

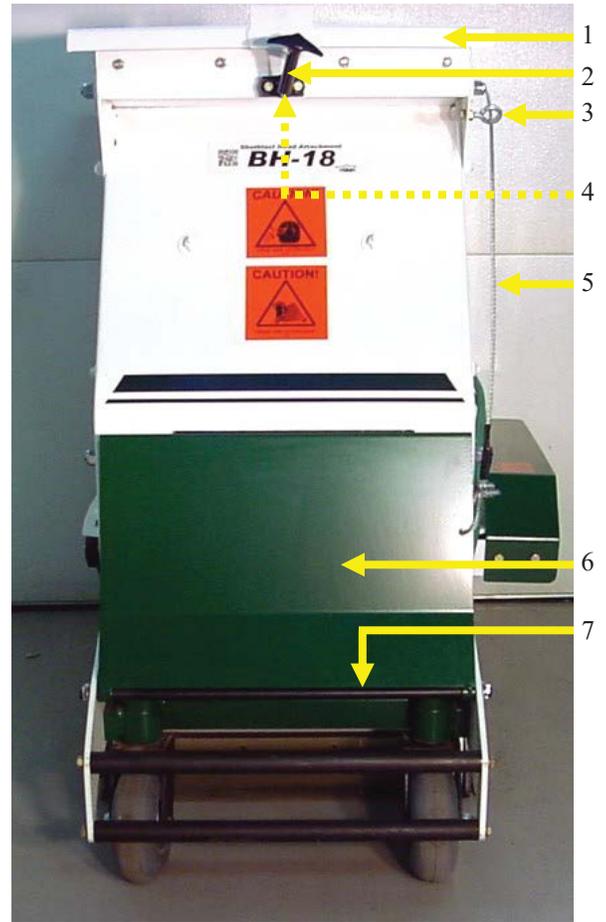
****Always grease main bearings every 10 hours of service.****

Blade Bolt Torque Sequence

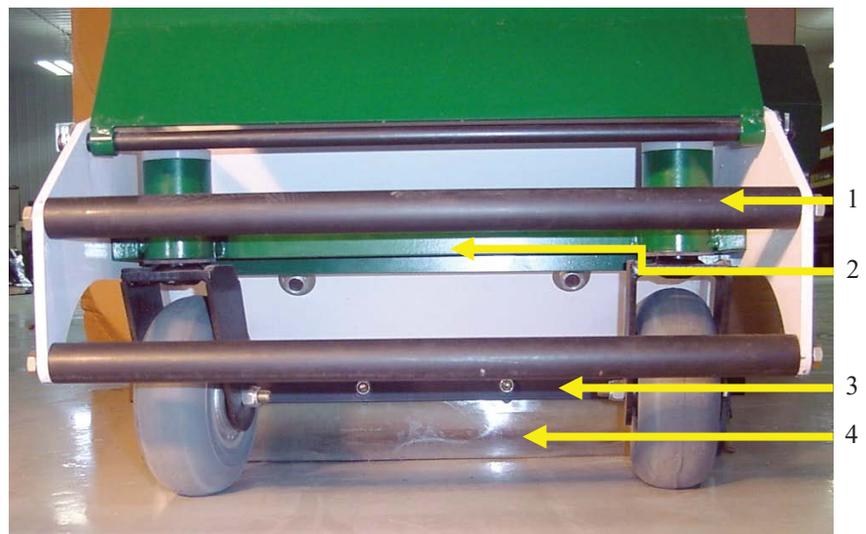


BH-18 BLAST HEAD PARTS

1. H-354-AS Hopper Lid
2. V-1037 Draw Latch
3. H-114 Eye Bolt
4. H-375 Latch Spacer (*not shown*)
5. H-073 Guide Plate Cable (48in)
6. H-332-AS Guide Plate
7. H-315 Guide Plate Rod

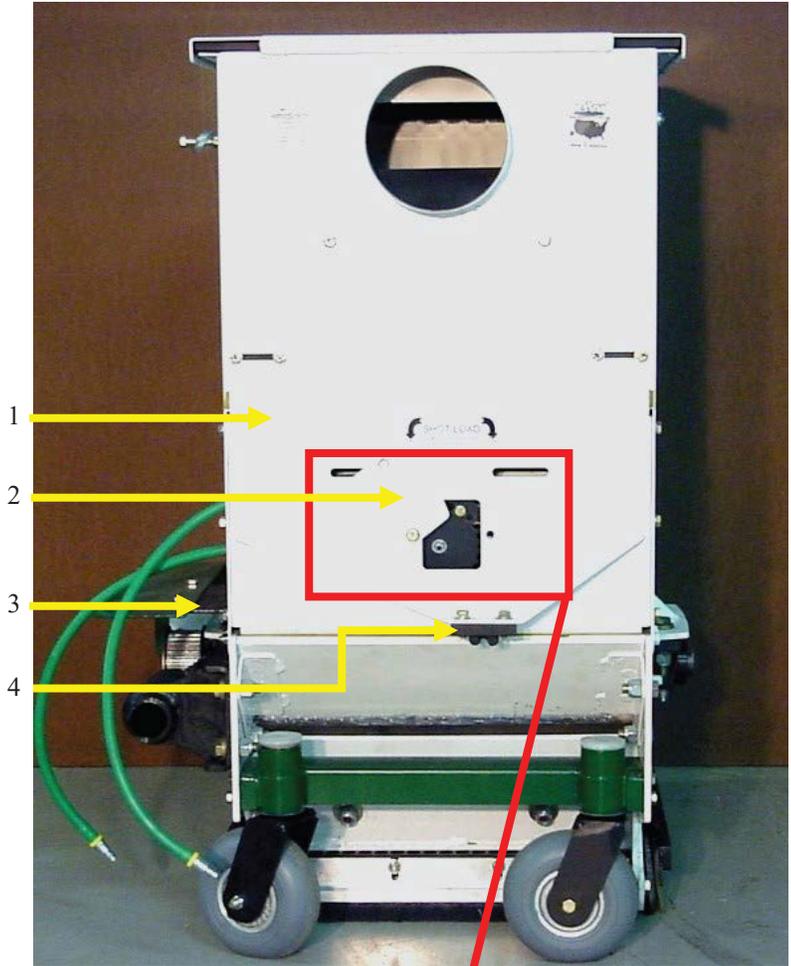


1. H-349 Caster Guard
2. H-372-AS1 Caster Assembly
(*assembly breakdown on page 20*)
3. H-326 Front Seal Spacer
4. H-321-A Front Seal

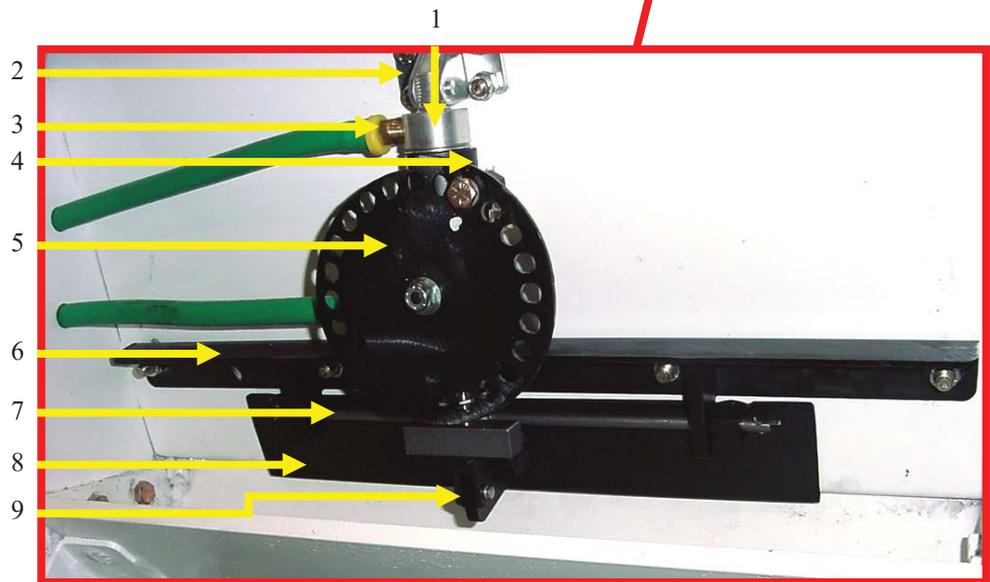


BH-18 BLAST HEAD PARTS

1. J-27-A Adjuster Cover
2. H-360-AS Lower Rear Hopper
3. H-365-AS Guard Mount Rear
4. S-1619-AS Lift Support Grip



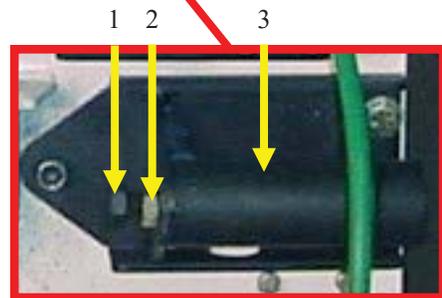
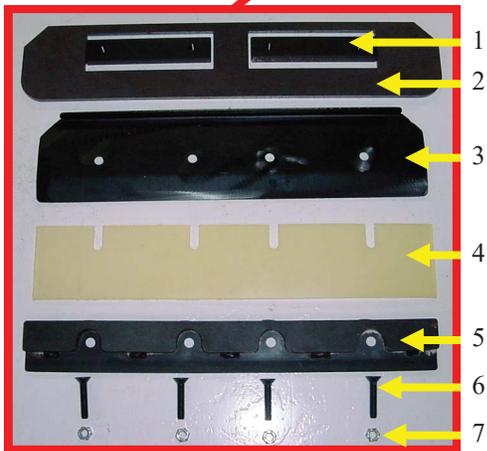
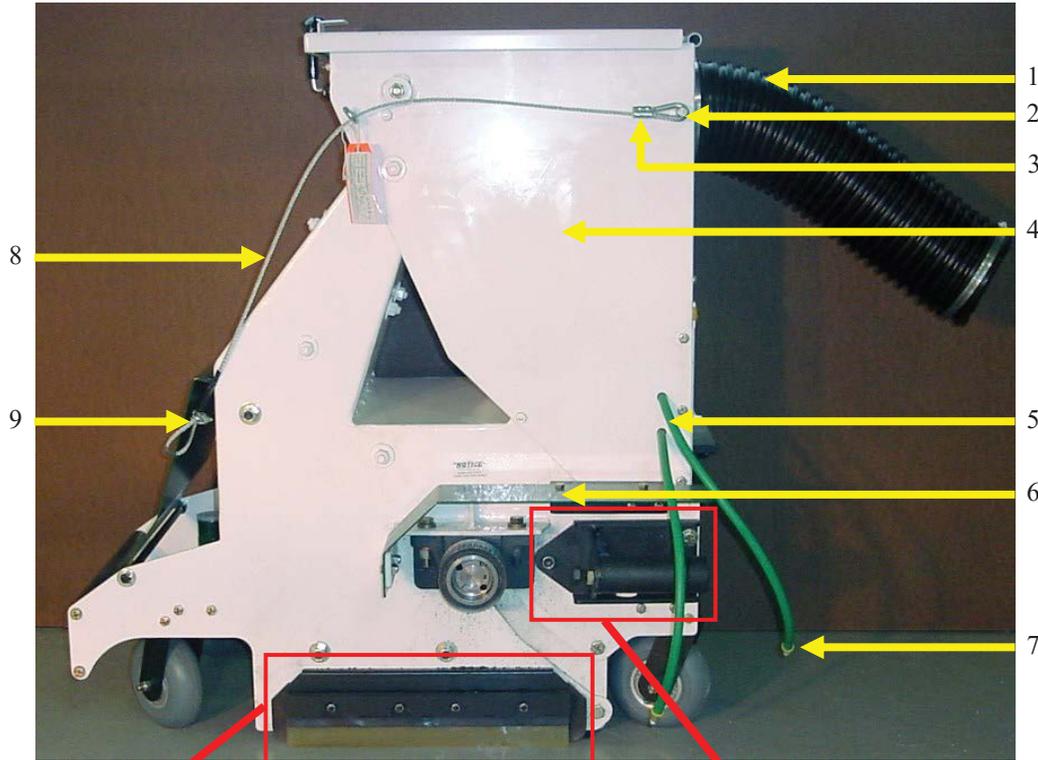
1. E-1201 Air Cylinder
2. E-2102 Pivot Bracket
3. B-1644 Air Cylinder Fitting
4. O-114-A Cam Bracket
5. O-115-A Adjuster Cam
6. O-4918-AS Shot Gate Mount
7. O-5118-5 Shot Gate Rod
8. O-5118-AS Shot Gate
9. O-116-A Shot Tab



BH-18

BLAST HEAD PARTS

- | | |
|-----------------------------------|----------------------------|
| 1. B-1610 Dust Hose (22 in.) | 6. H-006-DAS Belt Guard |
| 2. B-1648 Cable Loop | 7. C-1615 Air Coupling |
| 3. DL-34 Cable Compression Sleeve | 8. H-073 Guide Plate Cable |
| 4. H-343-AS Housing Assembly | 9. C-1728 Cable Clamp |
| 5. H-383 Air Line (27 in) | |

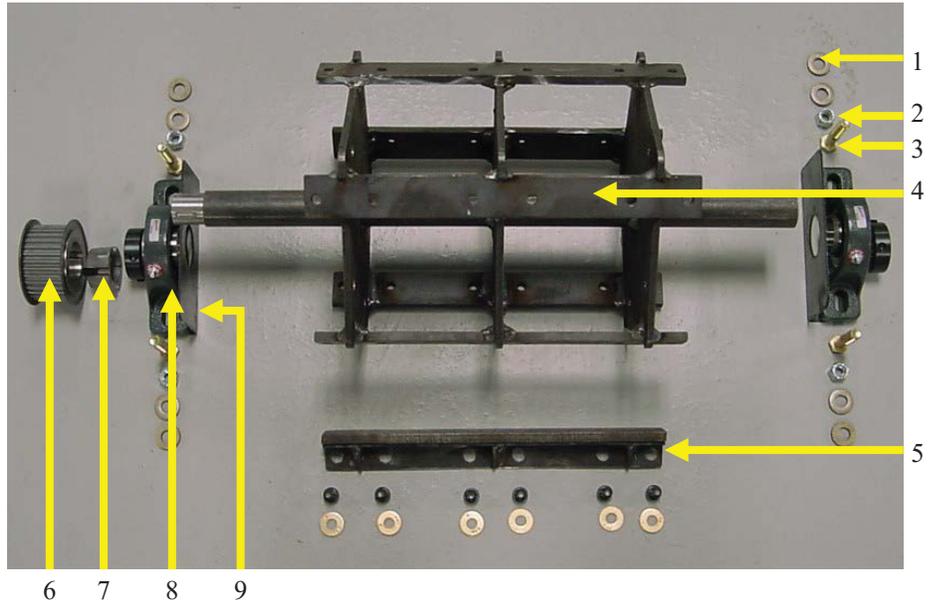


1. H-345 Floater Mount
2. H-344 Floater Plate
3. H-341-AS Side Seal Plate
4. H-346 Side Rubber Seal
5. H-333-A Side Plate
6. 5/16-18X1-3/4FHSCS Flat Head Socket Cap Screw
7. 5/16-18NLN Nylon Lock Nut

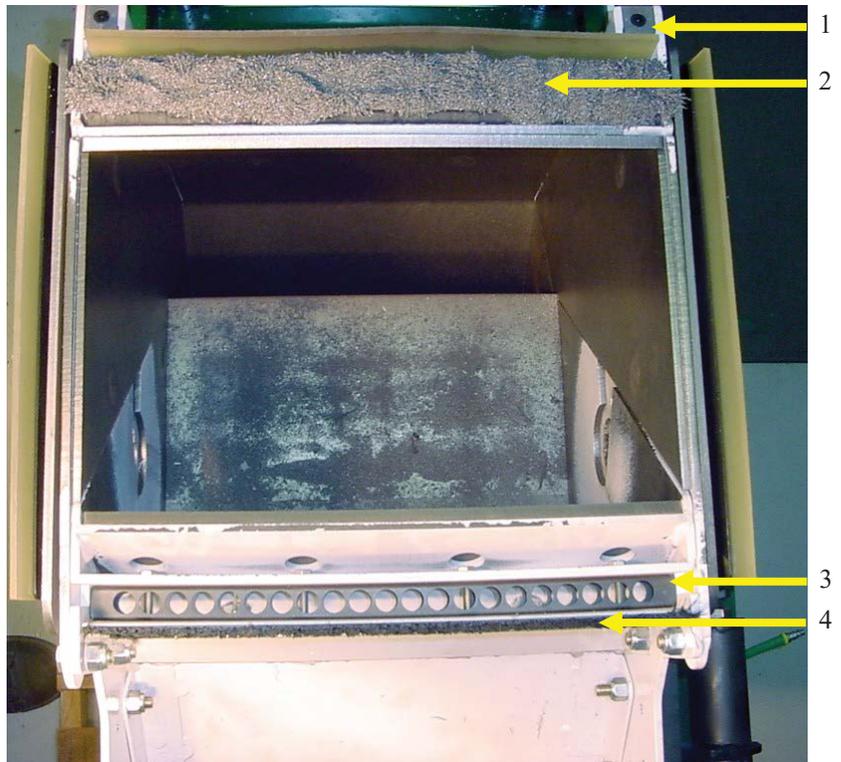
1. S-042-AS Adjuster Bolt
2. 5/8-11JN Jam Nut
3. H-325-AS Lift Mount

BH-18 BLAST HEAD PARTS

1. 1/2 ETFW Washer
2. 1/2-13NLN Nylon Lock Nut
3. 1/2-13X2-1/2 Hex Head Cap Screw
4. H-300-AS Blast Cage Assembly
5. H-303-AS Blade Set (5 Blades per set)
6. H-102 Sprocket
7. H-110 Bushing
8. B-1627 Blast Head Bearing
9. H-056-A Bearing Shield

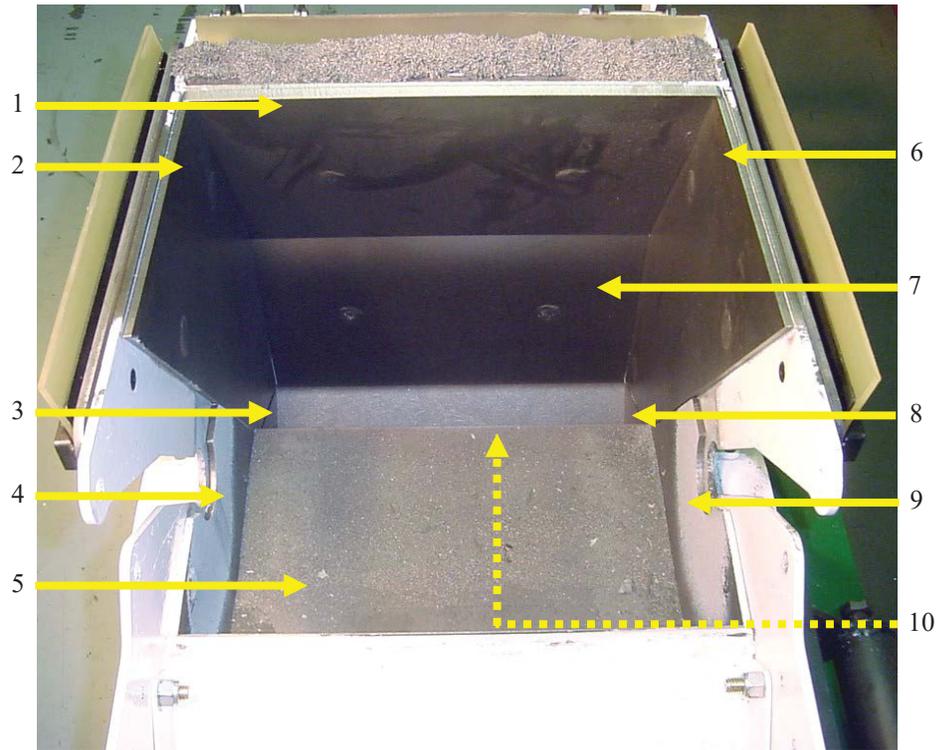


1. R-07-CC Carbide Cutter
2. H-105 Magnet *requires 8*
3. H-374 Rear Brush Spacer
4. H-321 Rear Brush

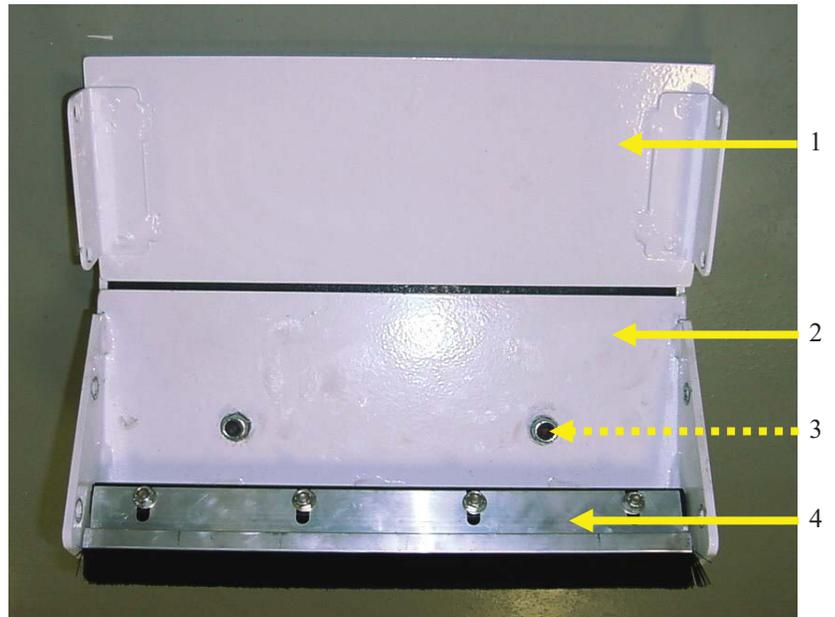


BH-18 BLAST HEAD PARTS

1. H-311-AS Lower Front Liner
2. H-324-RAS Right Lower Side Liner
3. H-356-RAS Right Upper Side Liner
4. H-338-RAS Right Side Liner
5. H-308-1 Feed Liner
6. H-324-LAS Left Lower Side Liner
7. H-335-AS Front Tunnel Liner
8. H-356-LAS Left Upper Side Liner
9. H-338-LAS Left Side Liner
10. H-337-AS Rear Tunnel Liner (*not shown*)

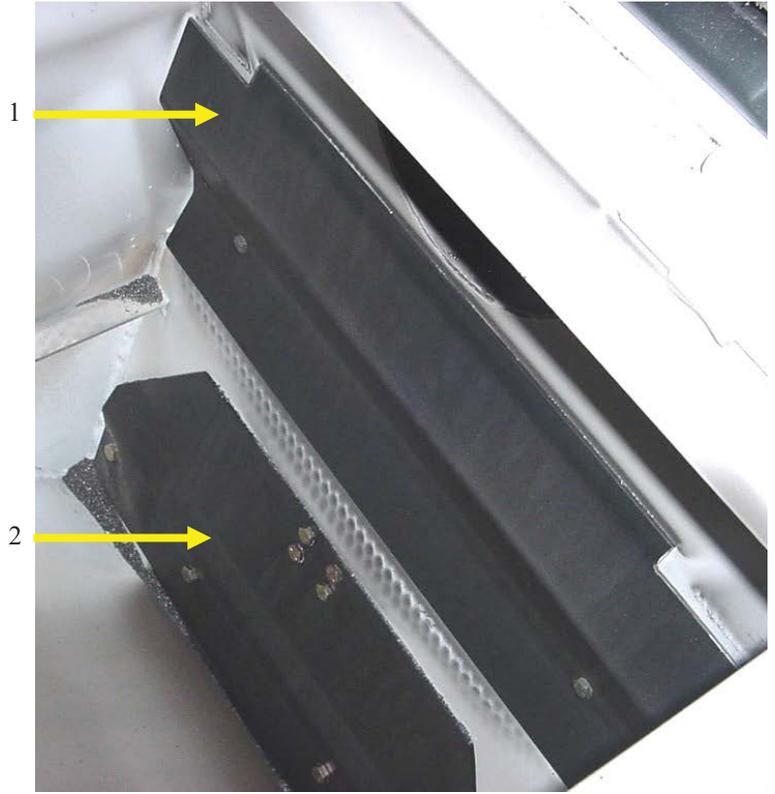


1. H-306-AS Upper Rear Liner
2. H-319-AS Rear Liner Mount
3. H-307-AS Lower Rear Liner (*not shown*)
4. H-321 Rear Brush

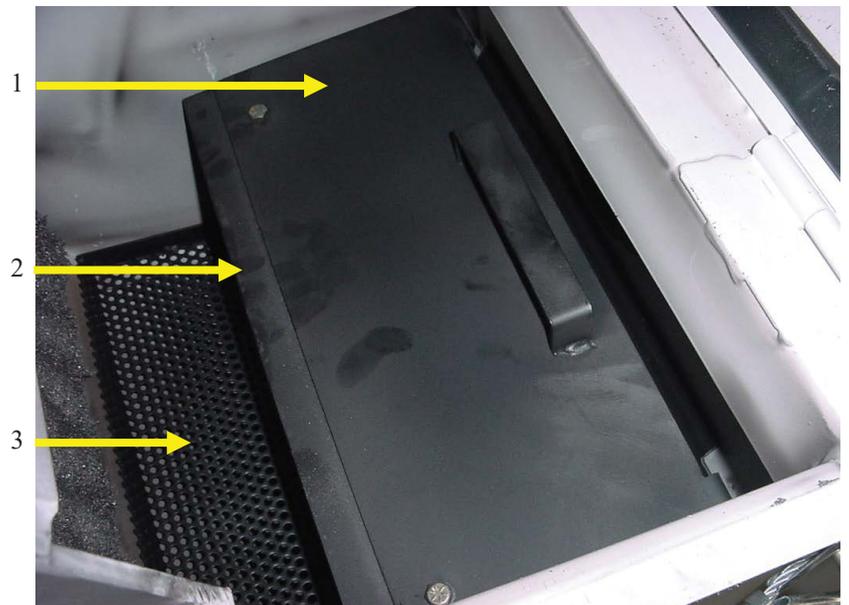


BH-18 BLAST HEAD PARTS

1. H-314-2AS Air Deflector
2. J-2218 Shot Gate



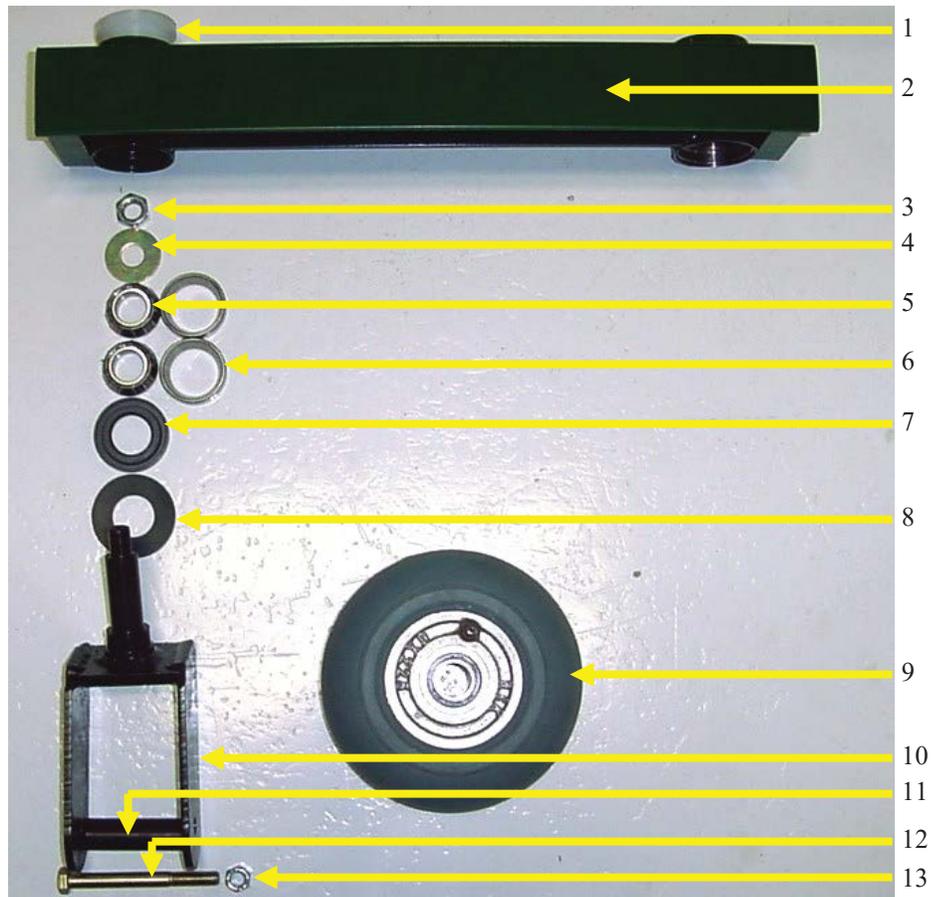
1. H-392-AS Separator Plate
2. H-389 Deflector Top Plate
3. H-348-1AS Lower Shot Screen



BH-18 BLAST HEAD PARTS

H-372-AS1 Caster Assembly Breakdown

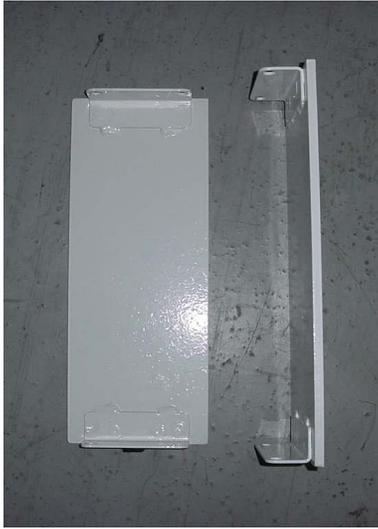
1. H-331-A Caster Cap
2. H-372-AS Caster Mount
3. 1/2-20NLJN Jam Nut
4. 1/2USSFW Washer
5. H-117 Bearing (Caster)
6. H-122 Bearing Race (Caster)
7. H-119 Seal (Caster)
8. H-120 Rubber Washer
9. H-106 Caster Wheel
10. H-368-AS Caster Frame
11. H-323 Caster Spacer
12. 3/8-16X3-1/2 Bolt
13. 3/8-16NLN Nylon Lock Nut



BH-18 BLAST HEAD PARTS

BH-18 Blasthead Liner Identification

H-306-AS Upper Rear Liner



H-307-AS Lower Rear Liner



H-308-1 Feed Liner



H-311-AS Lower Front Liner



H-324-LAS Left Lower Side Liner



H-324-RAS Right Lower Side Liner



BH-18
BLAST HEAD PARTS

BH-18 Blasthead Liner Identification

H-335-AS Front Tunnel Liner



H-337-AS Rear Tunnel Liner



H-356-RAS Upper Right Side Liner



H-356-LAS Upper Left Side Liner



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