

Parts Manual - HY-RAM Series

Keep this manual in a convenient location so that it is easily accessible for future reference. Contact your Allied Dealer or the Allied Customer Service Department for replacement manuals. Inquiries regarding the content of this manual must include effective date shown on inside cover.



PM575470

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Table of Revision History for PM575470

Cons

Effective Date	Page	Summary of Change
2014, Sep	6,13,18	Table 3.2 Item 7 removed-use is discontinued. Table 4.4 revise part number Item 15B, item 16-A. Table 6.1 XR bolt change to 577485 was 90566.
2013, Nov	8,15	Fig. 5-2 Clarify seal profile to help ensure correct orientation at assembly. Table 4.1 Dimension change to wear plates – Full interchangeability old-to-new is preserved. Part numbers unchanged.
2011, Sep	9,11	Part number change 676251 was B2507200, 571004 was B4007310, 100097 was A0207070
2011, Aug		Original Issue of Parts Manual PM575470

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1.0 Introduction

1.1 Purpose and Scope of This Manual

Table 1.1 About This Manual

Document ID. PM575470 Spare / Replacement Туре Parts List Current Status* See Inside Cover Mounted Hydraulic Product Name: Impact Breaker Series Hy-Ram® Applicable Model[s]: HR175 Years of Manufacture: Begin 2011 *Inquiries regarding this manual must include effective date shown on inside cover

The material presented in this manual has been prepared in support of the product named in Table 1.1. It's intended solely for use with expressed model(s) and may be unsuitable with models unnamed.

The publication identified in Table 1.1 was created solely for information purposes and should not be considered all-inclusive. If further information is required, contact your local Allied dealer or the Allied Customer Service Department.

Parts Manuals do not include safety precautions or operating procedures. Figures depict views that are intended for parts identification and not for purposes of repair or service of the product. Material presented in this manual, including tables, figures, descriptions and captions, may show equipment that is optional.

How to use this Manual:

The Allied work tool consists of separate components and partial assemblies. Components are identified with the aid of figures, captions, item key, part name and quantity. If needed, 'remarks' and 'specifications' will further clarify the part's description or denote assignment with select unit(s) by serial number.

An order form is provided at the back of this manual. Prior to ordering parts, confirm that the information recorded on the equipment's identification label corresponds with Table 1.1. For the location of this label, refer to Section 2.0 of this manual. The content of this document has been reviewed for accuracy. Allied Construction Products, LLC has endeavored to deliver the highest degree of accuracy and every effort has made to provide information as complete as possible. However, continuous improvement of our products is an Allied policy. The material in this publication, including figures, captions, descriptions, remarks and specifications, describe the product at the time of its printing, and may not reflect the product in the future. A table of revision history for this document is found on the inside cover.

1.2 How To Order Replacement Publications

This manual is an integral part of this product. Keep it in a convenient location so that it is easily accessible for future reference. If replacement manuals are required, they may be ordered by contacting your Allied dealer service center. Manuals may also be viewed and downloaded at: www.alliedcp.com

1.3 Related Publications

Allied Construction Products, LLC offers the following publications for the product identified in Table 1.1.

1.3.1 Safety, Operation & Maintenance Manual

SOM577201

Applicable Models: Hy-Ram Series HR175-HR230

The <u>Safety</u>, <u>Operation and Maintenance Manual</u> has been prepared to assist the operator and maintenance personnel with the information necessary for the safe and proper use of the Allied work tool.

Content in the Safety, Operation & Maintenance Manual includes:

Safety Information Equipment Serial Number and Model Identification Basic Guidelines for Installation and Set-up Pre-Operation Inspection How to Operate the Allied Work Tool Maintenance Schedule N2 Gas Charging Instructions Tool and Guide Bushing – Lubrication, Inspection, Wear Limits and Replacement Troubleshooting Removal From Carrier, Transporting, Lifting & Storage Technical Data (Weight & General Dimensions)

1.0 Introduction – [cont'd]

1.3.2 AEM Safety Manual for Hydraulic Breakers

AEM Safety Manual for Hydraulic Breakers The Association of Equipment Manufacturers offers a safety manual designed for operators and maintenance personnel of hydraulic mounted breakers. The manual is available in Spanish, French and English. It is published in an illustrated format of sensible do's and don'ts, featuring typical daily situations on the job site. Content includes safety tips concerning the workplace and equipment, start up and shut down guidelines and special operating and maintenance precautions.

This publication is available by contacting: Association of Equipment Manufacturers Toll free 1-866-AEM-0442 E-mail: <u>aem@aem.org</u> Website: <u>www.aem.org</u>

Ask for FORM CMHB-1004, <u>Hydraulic Mounted</u> <u>Breakers</u>.

This publication is also available through Allied under part number 953076 (English). To order a copy, contact the Allied Customer Service Department.

2.0 Equipment Identification

1.1 Serial Number Location

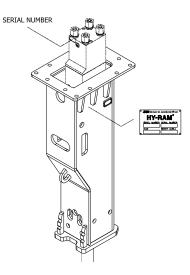


Fig 2-1 Equipment Identification

Refer to Figure 2-1. The Serial Number assigned to this equipment can be found in the following locations:

- 1. Stamped on the Equipment Identification Tag
- 2. Stamped on the back head near the N2 gas valve.

2.2 Equipment Identification Tag

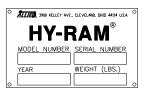


Fig 2-2 Equipment Identification Tag

The Equipment Identification Tag is affixed to the housing. It provides the following information:

- Allied with address
- Product name
- Model number
- Serial number
- Year of manufacture
- Weight

Confirm that the information contained on the Tag corresponds with the information provided in Section 1, Table 1.1.

2.3 Owner's Record of the Equipment

Your local Allied dealer requires complete information about the equipment to better assist you with questions regarding parts, warranty, operation, maintenance, or repair.

- Record the equipment's serial number to the space provided below. This information may be obtained from the Equipment Identification Tag. Refer to Fig 2-1 for the location of the tag.
- Indicate the date in which the Allied equipment was placed into service.
- Indicate the date in which the Warranty Registration form was completed and returned to Allied.

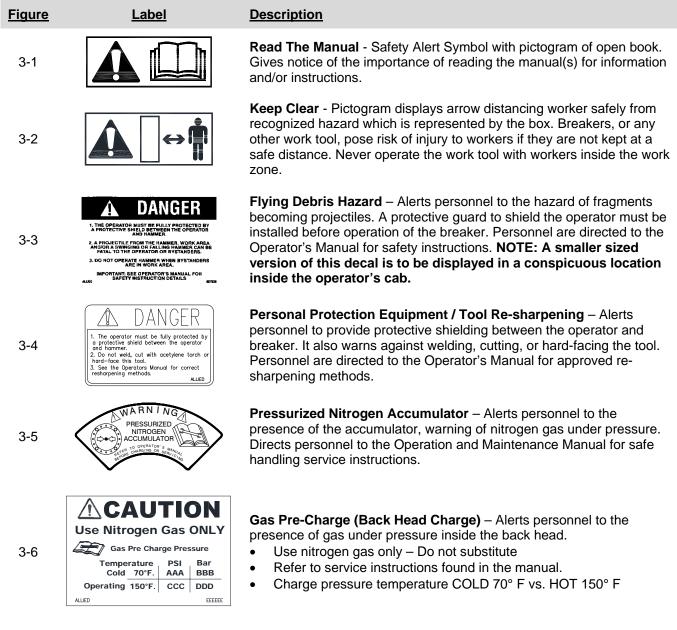
Product Name:	Hydraulic Breaker			
Series:	Hy-Ram			
Model:	HR175			
Part Number:	575271			
Serial Number:				
In Service Date:				
Registration Date:				

3.0 Safety, Identification & Information Labels

3.1 Label Description and Location On Equipment

Labels affixed to the Allied equipment communicate important information. Safety warnings alert of potential hazards, while other labels provide equipment identification and instructions important to operation and service. Keep safety labels clean. Words and illustrations must be legible. Replace damaged or missing labels before operating this equipment. Refer to Figure 3-15 for their position on the equipment. The part numbers for labels are found in Table 3.2.

Table 3.1 Label Description





3.0 Safety, Identification & Information Labels

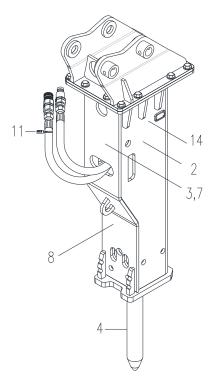
Table 3.1 Label Description - cont'd

Fig.	Label Description – cont d	Description
3-8	IMPORTANT HYDRAULIC BREAKER TOOL MUST BE LUBRICATED EVERY 2 HOURS TO LUBRICATE: STAND HYDRAULIC BREAKER VERTICALLY AND APPLY COTACT PRESSURE TO THE TOOL ALLO 6773M	LUBRICATION – Decal provides re-lubrication frequency. Risk of equipment damage through unapproved methods. Strict attention to all procedures must be followed. Stand breaker upright with contact pressure applied at tool. OK to lube.
3-9		Lubrication Point – Pictogram of instruction manual and grease gun is used to identify lubrication points. Read the manual(s) for application instructions, grease type and re-lubrication schedule.
3-10	3	Lift Point – Pictogram of hook identifies approved lift points for safe handling.
3-11		OIL SUPPLY LINE "PRESSURE" I.D. TAG – A red colored cable tie marked "PRESSURE LINE" is attached to the supply hose for ease of identification between hoses.
3-12	ÂLLIED	ALLIED LOGO – This decal is the Allied brand identifier and is a registered trademark of Allied Construction Products, LLC.
3-13	HR175	MODEL – Decal identifies the series and specific model.
3-14	O TELEMEN 1990 KELLEY AVE. LEVELAND. DHID 44114 USA ○ HY-RAM MODEL NUMBER SERIAL NUMBER YEAR WEIGHT (LBS.) ○	EQUIPMENT ID TAG - Contains identifying information about the equipment, including: Manufacturer's name, address, product name, model number, serial number, year of manufacture, and weight.

3.0 Safety, Identification & Information Labels

Table 3.2 Label Set

<u>ltem</u>	Description	Part No.	<u>Qty</u>	Remarks / Specifications
	Label Set	575480	1 Set	Set includes Items 1 thru 13
1	Decal – Read Instructions	676984	1	
2	Decal – Stay Clear	840156	2	
3	Decal – Danger (Large)	657840	1	
	Decal – Danger (Small)	657839	1	Display in conspicuous location inside cab
4	Decal – Tool Sharpening	657838	1	
5	N/A			Not Equipped
6	Decal – Back Head N2 Pressure	575509	1	
7	REMOVED			N/A Use Discontinued
8	Decal – Lube w/ Tool In	677334	1	
9	Lubrication Point	A101725	1	
10	Decal – Lift Point	676982	1	
11	Pressure ID Tag	818676	1	Identifies oil supply line [IN]
12	Decal – Allied	676655	1	
13	Decal – Model HR230	575490	1	
14	Equipment ID Plate	658833	1	Item 14 is not included in Set



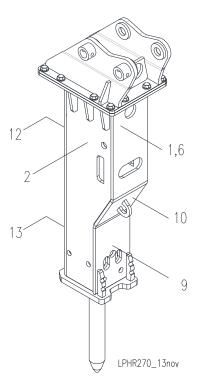


Fig. 3-15 Label Positions

4.1 Housing Box and Components

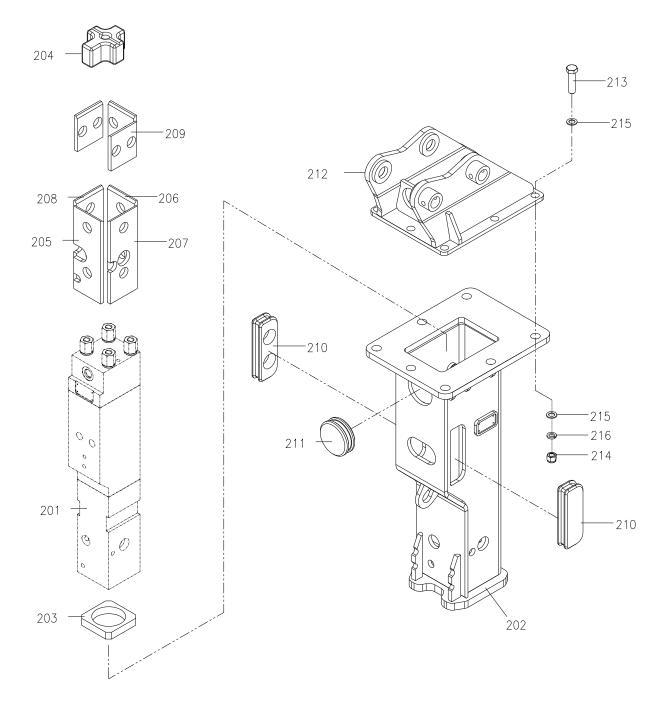


Fig. 4-1 Housing Box and Components

4.1 Housing Components

Table	111			
<u>ltem</u>	Description	Part No.	<u>Qty</u>	Remarks / Specifications
	HY-RAM HR175	575271		Standard Configuration - XR
201	Breaker Assembly		1	
202	Housing Box	575545	1	Standard Configuration - XR
203	Base Buffer	A0202080	1	
204	Top Buffer	A0306170	1	
205	Wear Plate	A0202090	1	¹⁾ Dimension change – interchangeable old-to-new
206	Wear Plate	A0202100	1	¹⁾ Dimension change – interchangeable old-to-new
207	Wear Plate	A0202110	1	¹⁾ Dimension change – interchangeable old-to-new
208	Wear Plate	A0202120	1	¹⁾ Dimension change – interchangeable old-to-new
209	Wear Plate	A0302140	3	¹⁾ Dimension change – interchangeable old-to-new
210	Side Rubber	A0602190	2	
211	Front Rubber	A0602180	1	
212	Mounting Bracket	Varies		Not included. Order separately. Section 6
213	Bolt			Items 212,213,214,215,216 Refer to Section 6
214	Nut			
215	Washer			
216	Washer			

¹⁾ Dimension change to wear plates – Full interchangeability old-to-new is preserved. Part numbers unchanged.

4.2 Breaker Assembly

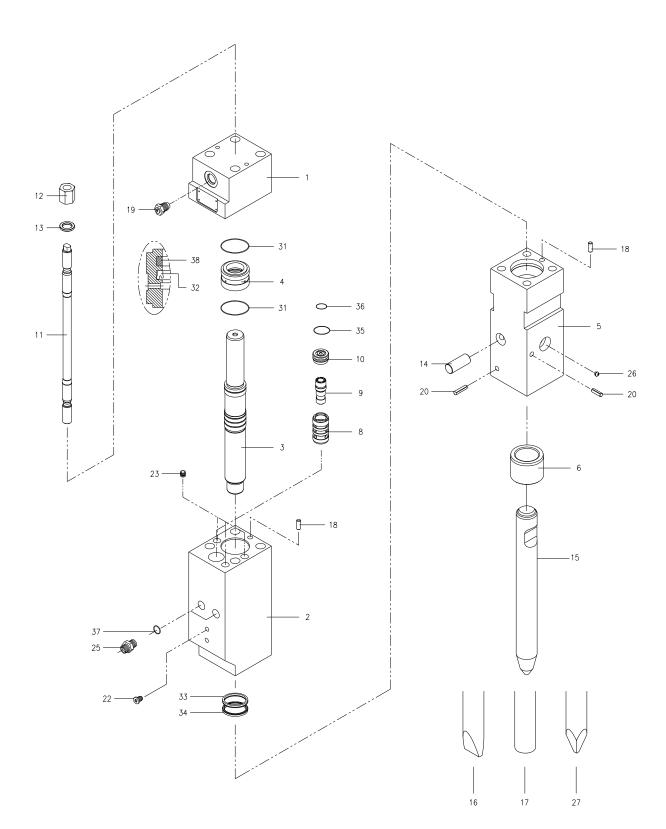


Fig. 4-2

4.2 Breaker Assembly

Table 4.2

Table	7.2			
<u>ltem</u>	Description	Part No.	<u>Qty</u>	Remarks / Specifications
1	Back Head	A0206010	1	
2	Cylinder	A0206020	1	
3	Piston	A0206030	1	
4	Seal Housing	A0206040	1	
5	Front Head	A0206050	1	
6	Tool Bushing	A0206060	1	
8	Oper. Valve Guide	A0206070	1	
9	Oper. Valve Spool	A0206080	1	
10	Valve Plug	A0206090	1	
11	Side Rod	A0206100	4	
12	Side Rod Nut	A0206110	4	
13	Side Rod Washer	A0206120	4	
14	Tool Pin	A0206130	1	
	Tool Selection			Items 15,16,17,27 See Section 4.4
18	Guide Pin	B4006370	2	
19	Gas Charging Valve	A3006590	1	
20	Spring Pin	SP100000	2	
22	Hex. Socket Plug	B4006450	1	
23	Plug	A0406200	3	
25	Adapter	A0206180	2	
26	Grease Nipple	816675	1	
31	O-Ring	676251	2	
32	U-Packing	A0207020	1	
33	U-Packing	A0207030	1	
34	Wiper	A0207040	1	
35	O-Ring	A0207050	1	
36	O-Ring	571004	1	
37	O-Ring	100097	2	
38	Gas Seal	A0207080	1	

4.3 Hydraulic Connections

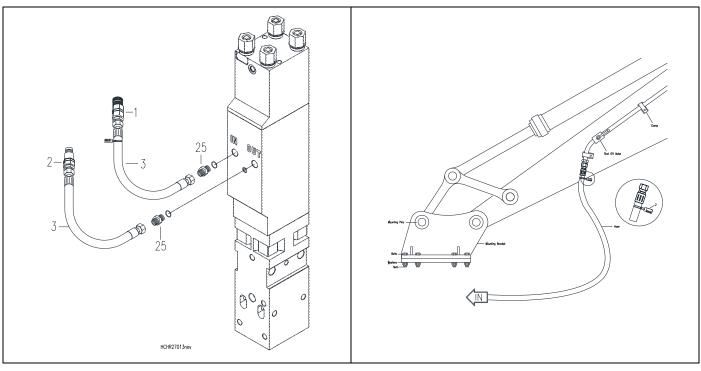


Fig. 4-3

Fig. 4-4

Table 4	.3			
<u>ltem</u>	Description	Part No.	<u>Qty</u>	Remarks / Specifications
1	Quick Disconnect - Socket	101571	1	
2	Quick Disconnect - Plug	101570	1	
3	Hose	575533	2	
25	Adapter	865313	2	

4.4 Tool Selection

4.4.1 Standard Tools

The three most commonly used tool points for concrete demolition rock cutting and boulder reduction are the Chisel, Conical and Blunt.

A. Chisel (Wedge – Cross Cut or In-Line) – Suitable applications include soft rock and general demolition of concrete. The tool penetrates into the material, forcing it to separate. Useful when cutting action is required, e.g. benching and trenching.

- **B.** Conical Point The conical point penetrates the material and its shape makes it less prone to twisting which can lead to burring of the tool's retainer pin.
- **C. Blunt Tool** Designed for impact breaking. The blunt tool is effective in secondary breaking of oversize rock or boulder reduction.

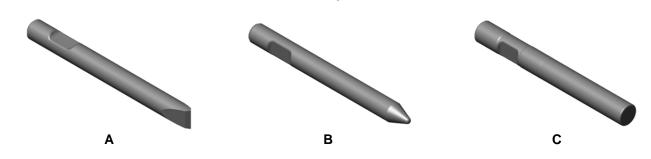


Fig. 4-5 Standard Tool Types A thru C.

4.4.2 Specialty Tools

Specialty tools have a specific purpose or function designed into each tool. These tools can extend the versatility of a breaker, thus increasing productivity and eliminating the need for additional equipment. For availability of tool types not listed, contact Allied.

- D. Post Driver For driving posts, pipes, etc.
- E. Tamper Designed to compact loose material.
- F. Frost Cutter For cutting into frozen ground.
- **G.** Asphalt Cutter Designed to cut seams in asphalt for removal. Useful when removing asphalt to dig a trench. Available in Cross-Cut and In-Line configurations.



Fig 4-6 Specialty Tool Types D thru G.

General illustrations are shown. Actual tool design may vary. *Not available for all models.

4.4 Tool Selection

Table 4.4

<u>ltem</u>	Description	Part No.	<u>TD in [mm] x WL in [mm]</u>	Weight Ibs. [kg.]
15-B	Conical Point	575381	1.75 [44.5] x 7.5 in. (188)	9 (4.2)
16-A ¹	Chisel Cross Cut	575261	1.75 [44.5] x 7.5 (188)	10 (4.5)
	Chisel In-Line	²		
17-C	Blunt End	575391	1.75 [44.5] x 7.5 (188)	10.5 (4.8)
27 ²	Pyramid (Not Pictured)	²	1.75 [44.5] x 7.5 (188)	10 (4.5)

¹⁾ Standard tool supplied with Breaker in Bold

²⁾ For availability of tool types not listed, contact Allied

³⁾TD - Tool Diameter

⁴⁾ WL - Working Length

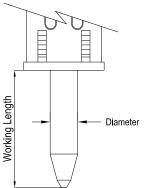


Fig. 4-7 Tool Working Length

4.5 Tool Lubrication

4.5.1 Allied Chisel Paste

Wear costs money, sometimes lots of money. Without lubrication to prevent metal-to-metal contact, bushings and tools will quickly wear from friction related damage.

A key element in managing wear of the bushing and tool is through the regular use of a high-quality lubricant. Formulated as a 'specialty' lubricant, Allied Chisel Paste is ideally suited for use in applications requiring long-lasting protection against damage from heavy loaded, sliding motion and high heat.

Allied Chisel Paste performs exceptionally well in this application due to its 'unique blend' of liquid and dry film lubricants. Dry film lubricants, which include solids of molybdenum, graphite and copper, combine to form a highly effective layer that resists being squeezed out during periods of heavy loading (extreme pressure).

Grease labeled 'General / Multi-Purpose' will typically contain only modest amounts of solid lubricants or

none at all. When the tool is loaded against the bushing, the liquid lubricant is squeezed out, leaving metal surfaces unprotected.

Chisel Paste Packaging & Ordering Information

I	ab	le	4.5	

<u>Container</u>	Packaging	Part No.
14.5 oz Tubes*	Qty x 10	574430
14.5 oz Tubes*	Qty x 30	574431
35 lb Bucket	Qty x 1	676698
120 lb Drum	Qty x 1	679968

* 14 oz. cartridge fits standard grease gun

5.0 Service Kits and Tools

5.1 Tune-up Kit

Table 5.1

All breakers require regular maintenance and periodic parts replacement. Follow the recommended service schedule to maintain reliable service. Tune-up kits can help restore performance by replacing common wear parts. Tune-up kits offer the convenience of combining parts that usually need to be replaced at the same time into a single package.

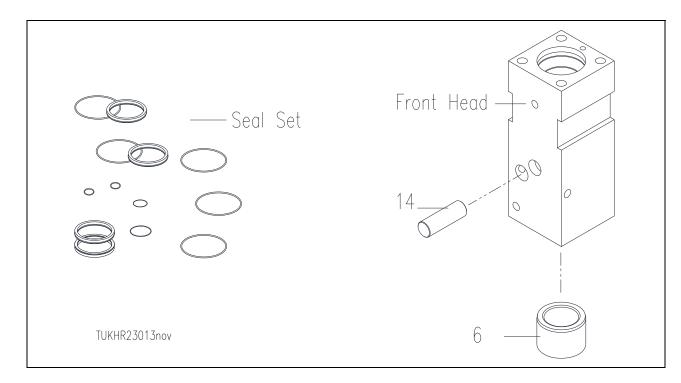


Fig.	5-1
	• •

<u>ltem</u>	Description	Part No.	<u>Qty</u>	Remarks / Specifications
	Tune-up Kit	575402	1	Kit includes all items in Table 5.1
	Seal Set	575412	1	
14	Tool Pin	A0206130	1	
6	Tool Bushing	A0206060	1	

5.2 Service Kits and Tools-Seal Set

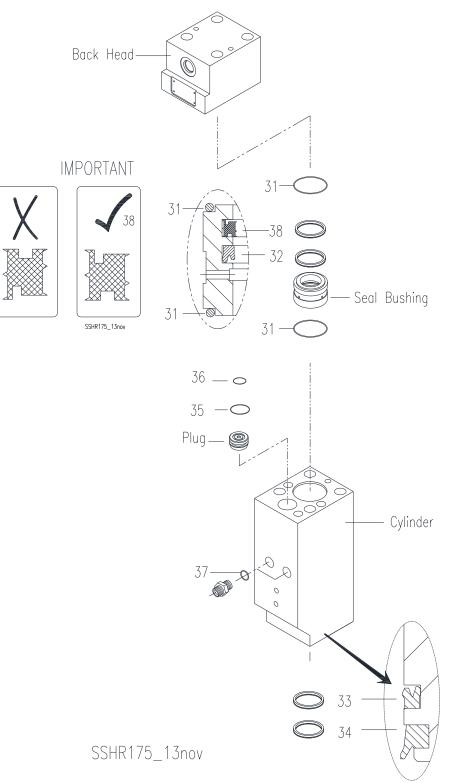


Fig. 5-2 Seal Positions – 575412

Follow Assembly Instructions

5.2 Service Kits and Tools-Seal Set

<u>ltem</u>	Description	Part No.	<u>Qty</u>	Remarks / Specifications
	Seal Set	575412	1	Set includes 31-38 & Thread Lube
31	O-Ring	676251	2	
32	U-Packing	A0207020	1	
33	U-Packing	A0207030	1	
34	Wiper	A0207040	1	
35	O-Ring	A0207050	1	
36	O-Ring	571004	1	
37	O-Ring	100097	2	
38	Gas Seal	A0207080	1	
	Thread Lube	676927	1	Follow application instructions

Table 5.2 Seal Set

IMPORTANT

Contamination interferes with reliable operation and will shorten component life. Prevent dirt and debris from entering the hydraulic system. Always work in a clean area. Keep seals properly stored in their original, sealed package until ready for use.

IMPORTANT

Seal Set includes packet of Thread Lube. Apply thread lube to side rods at assembly. DO NOT apply Thread Lube to seals!

5.3 Service Kits and Tools

5.3 N2 Gas Charge Tool - General Description

Designed for use with all Hy-Ram models, the charge kit adapts to both the back head and accumulator¹⁾. Periodic checking of the back head pressure will detect whether it is sufficiently charged. Proper function of the breaker is accomplished through accurate charging.

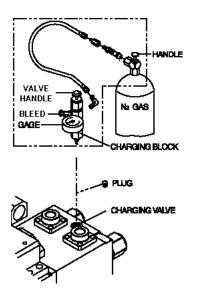


Fig. 5-3 Back Head Charge

Table 5.3 N2 Gas Charge Tool

The accumulator¹⁾ is a self-contained pressure vessel with an elastic membrane dividing the inner chamber. The lower chamber is used to receive, store and discharge pressurized oil. Pressurized N2 gas is stored inside the upper chamber. Reliable operation of the breaker along with optimal membrane life is accomplished through proper filling of the charge pressure.

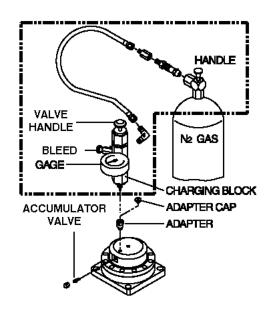


Fig. 5-4 Accumulator Charge

<u>ltem</u>	Description	Part No.	<u>Qty</u>	Remarks / Specifications
1	N2 Gas Charge Kit	575427	1-Kit	Kit includes items 2,3,4,5
2	Charge Valve with Gauge		1	"Charging Block"
3	Extension		1	"Adapter"
4	Hose		1	
5	Adapter - Gas Bottle		1	
*	Gas Bottle - Nitrogen N2 Gas	Not Available		*Not Included. Source Locally



For the safe and proper use of this tool, read, understand and follow all instructions given in Operation & Maintenance Manual 577201 .

¹⁾Not all Hy-Ram models are equipped with an accumulator

6.1 Mounting Bracket – Not Included

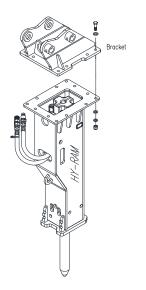


Fig. 6-1 Housing Box, Mounting Bracket & Bolt Set

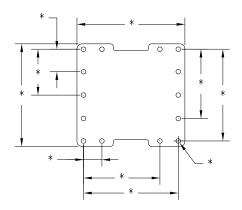
Hy-Ram series breakers come without mounting. Allied offers an array of mounting brackets to fit virtually any carrier, including those equipped with pin-grab or hook style mounting couplers.

To order a mounting bracket, complete information about the carrier (and coupler) is required: including the make, model, series and serial number.

Table 6.1 Mounting Family & Hardware (QTY)

6.2 Connection Plate

The mounting bracket is bolted to the connection plate located at the upper end of the housing box. Dimensions of the connection plate, including thickness, spacing, quantity and diameter of the bolt holes, will vary between small, medium and large size breakers. Dimensions for the connection plate can be found in Operation & Maintenance Manual.





In Table 6.1, 'Family' identifies the connection plate that's been appointed to the standard housing box. Other work tools from Allied, including the Ho-Pac[®], share the same Family types.

Family	<u>Model</u>	<u>Bolt</u>	FL Washer	LK Washer	<u>Nut</u>
XR	HR175	575555 (7)	667628 (7)	100088 (7)	575652 (7)
XR	HR230	901382 (7)	667628 (7)	100088 (7)	575652 (7)
BR	HR270	577485 (12)	921825 (24)	056245 (12)	90548 (12)
BR	HR290	577485 (12)	921825 (24)	056245 (12)	90548 (12)
SR	HR330	575556 (12)	798064 (24)	100088 (12)	575652 (12)
SR	HR390	951390 (12)	798064 (24)	100088 (12)	575652 (12)
MR	HR470	575557 (12)	901291 (24)	658529 (12)	90507 (12)
MR	HR560	575557 (12)	901291 (24)	658529 (12)	90507 (12)
LR9	HR600	90520 (12)	573029 (24)	573028 (12)	90519 (12)
LR10	HR710	573167 (12)	573029 (24)	573028 (12)	90519 (12)



Always follow the recommended tightening torque of all fasteners. These can be found in the Operation and Maintenance Manual 577201.

Allied Construction Products, LLC www.alliedcp.co

7.0 How To Order Spare Parts

Your local Allied dealer requires the Product Name, Model and Serial Number to better assist you with questions regarding parts, warranty, operation, maintenance, or repair. This information should be noted in Section 2.3 of this manual.

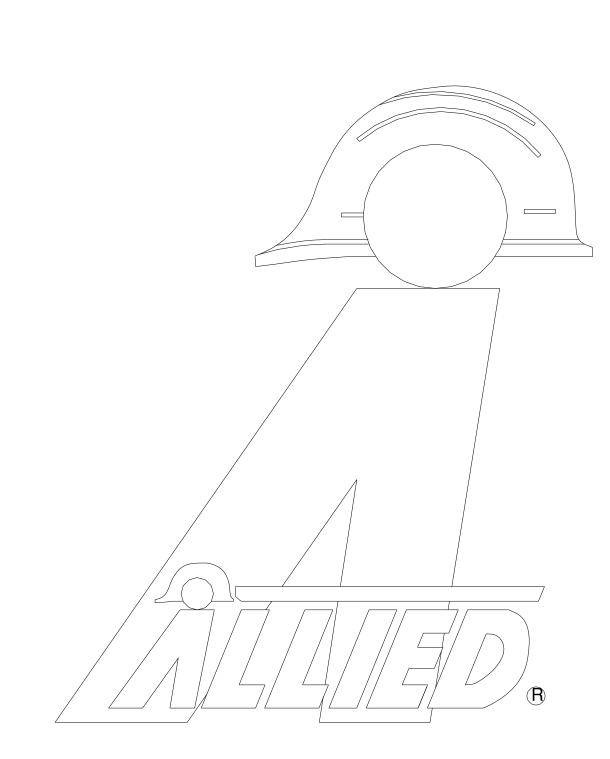
Product	Hy-Ram Series Breaker
Model	HR175
Serial No.	

Please fill	out completely
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Line		Description		Pa	rt Number	Quantity	Price
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
Your o Your N Phone Fax Email)		Account	Number e order	*See note belo		
Billing	Address		Shipping	Address			
*Note unles Initia	s initialed and chec Ils	ete order only ble parts and contact custo				-	order

NOTES	

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