



## BP LIFTS

By Barker Products  
1310 Miller Road, Greenville, SC 29607  
Phone:800-349-3149—Fax:864-297-1292



# ***Model BPC-612HDN 47 LIFT***



- Meets ANSI Z245 Type B Specifications
- Powered By a 3” Bore Hydraulic Cylinder With Cushions On Both Ends
- Made for Heavy Duty High Lift Applications
- Mounting Height—47” To Top of Mounting Plate
- EZ Bolt On Kit Standard
- Heavy Duty Cast Iron Bushings For Long Life Cycle
- Kickout Feature Protects Lifter From Ground Damage
- Modular Bolted Construction For Ease Of Part Replacement
- Non Adjustable Lower Hook Linkage



1310 Miller Road  
Greenville, SC 29607

# Barker Products

*Lift Unit Specialist*



Phone: 864-288-7384  
Fax: 707-371-4886

## BPC-612HDN47 LIFT UNIT SPECIFICATIONS

### 1 MOUNTING BRACKET:

Unit will be bolted to mounting bracket for ease of repair or replacement. In the event of truck settling, unit height must be adjustable in 1" increments to 2" total.

### 2 HYDRAULIC CYLINDER:

Non adjustable cushions on both ends.

### 3 CART LIFTING CAPABILITY:

ANSI Type B (American 2 bar cart)

### 4 Major Pivot Points:

All major pivot points are 1 1/4" diameter and equipped with heavy duty cast iron bushings and "Zerk" type grease fittings.

### 5 IMPACT RELEASE DEVICE:

The unit has a mechanical kickout feature that allows the unit to release from the vertical (down) position when struck by the street surface while the truck is in forward motion. When fully activated the vertical ground clearance is improved by five (5) inches. Unit must reset automatically to lift position.

### 6 LIFT BAR POCKET:

The lift bar pocket (saddle) is designed to minimize cart free movement when unit is in the up position. Bolted on for ease of replacement if damaged.

### 7 MOUNTING HEIGHT:

With the truck in "Level" position, the measurement from the top of the mounting plate to ground level will be 46 to 48 inches.

Note: User preferences vary, so mounting height should be approved by the end user.

### 8 DUMP ANGLE:

The lift plate when fully raised, will be at no less than 140 degrees inclusive.

### 9 LIFT PLATE (SHELL):

Constructed of 1/4" thick steel plate. Bolted on for ease of replacement if damaged. The lift plate will be painted safety yellow.

### 10 HOOK (LOWER BAR LATCH):

Mechanically operated by double non-adjustable steel linkage to securely hold the cart in place even if it is shaken at the top. Rotating style with replaceable bushings mounted on 3/4" diameter steel shaft. No sliding surfaces to wear out. Pivot points are bolted to the lift plate for ease of replacement if damaged.

### 11 CART LIFTING CAPACITY:

The unit will lift a minimum of 350 pounds at 1200 PSI hydraulic pressure.

### 12 PACKER BLADE INTERFERENCE:

When mounted properly, the unit can not be hit by the packer blade.

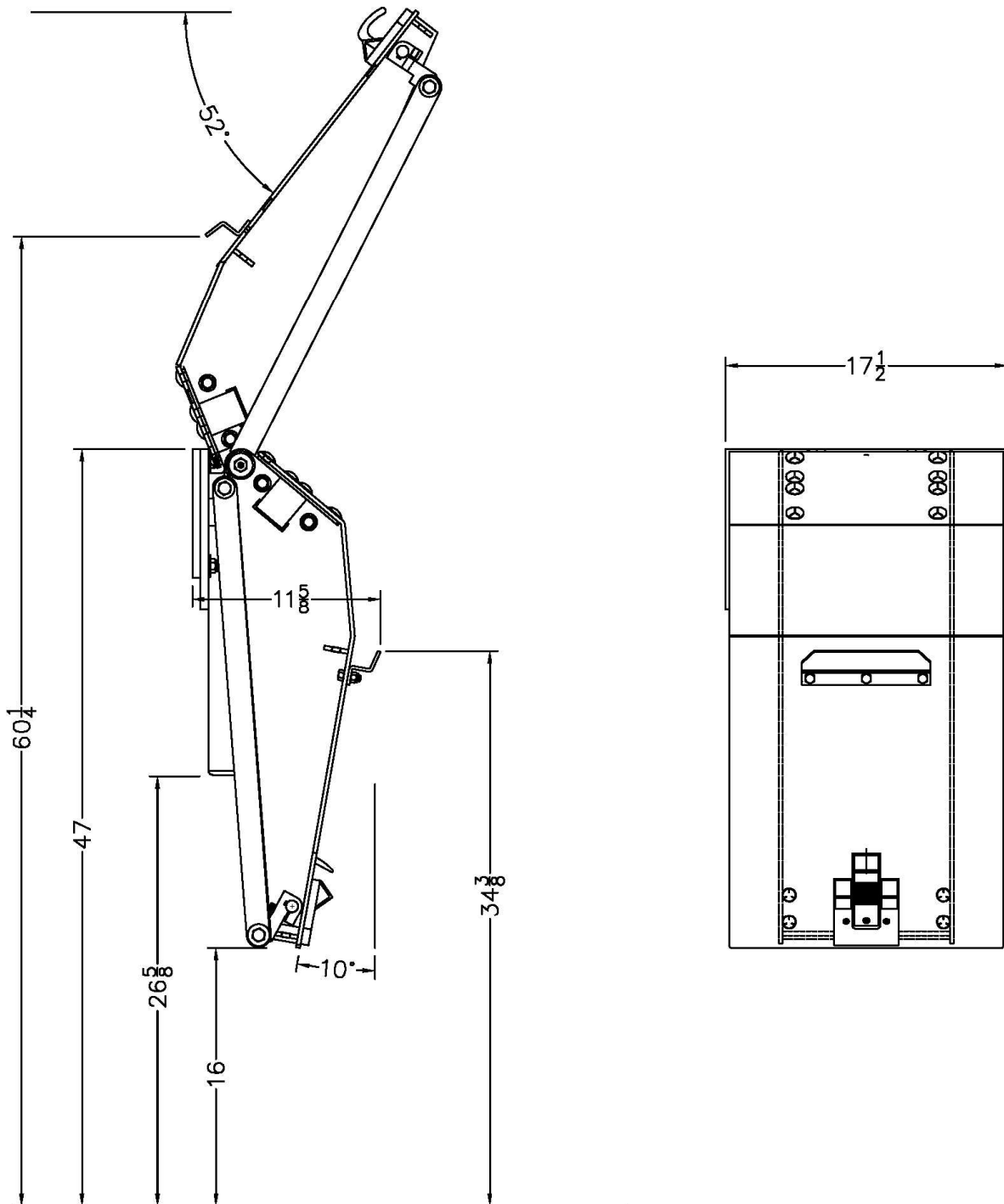


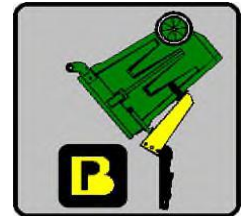
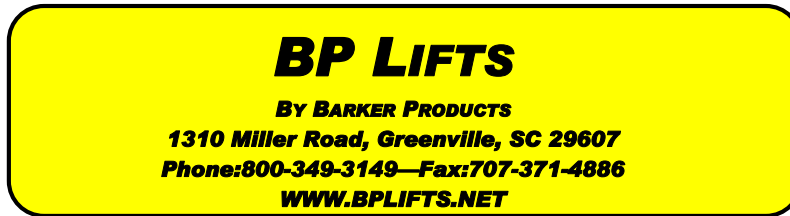
**Barker Products**  
1310 Miller Road, Greenville, SC 29607



# BPC-612HDN47

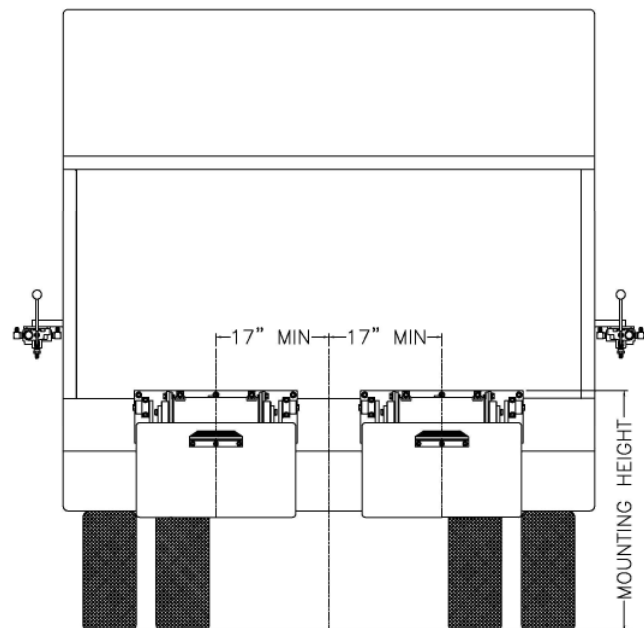
## Envelope Dimensions





# Lift Unit Installation

1. Truck must be empty, clean and parked on a level surface before installation is started.
2. Remove all bumpers and running boards that will interfere with the location of the lift units. Relocate lower mounted tail lights as needed.
3. Measure and mark the centerline of the truck hopper. The centerline of the unit or units should be a minimum of 17" from the hopper centerline.
4. Hand valves should be mounted on the side of the hopper at the most convenient height for the operator and clear of the packer controls.
5. The top of the unit mounting plate should be tack welded in place at the height recommended on the envelope dimension sheet of the unit.  
**CAUTION: SEE NOTE BELOW PICTURE**
6. All dimensions should be approved by the customer before final welding.
7. If the mounting plate extends more than 2" above the hopper, a brace should be added.



Mounting heights and locations are recommendations only. It is the responsibility of the installer to insure that the customer is satisfied with the height. Barker Products recommends that after the units are tacked in place, try the units with the can or cans the customer uses. The customer should approve your mount before final welding.



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## BPC-612 LIFT UNIT WARRANTY

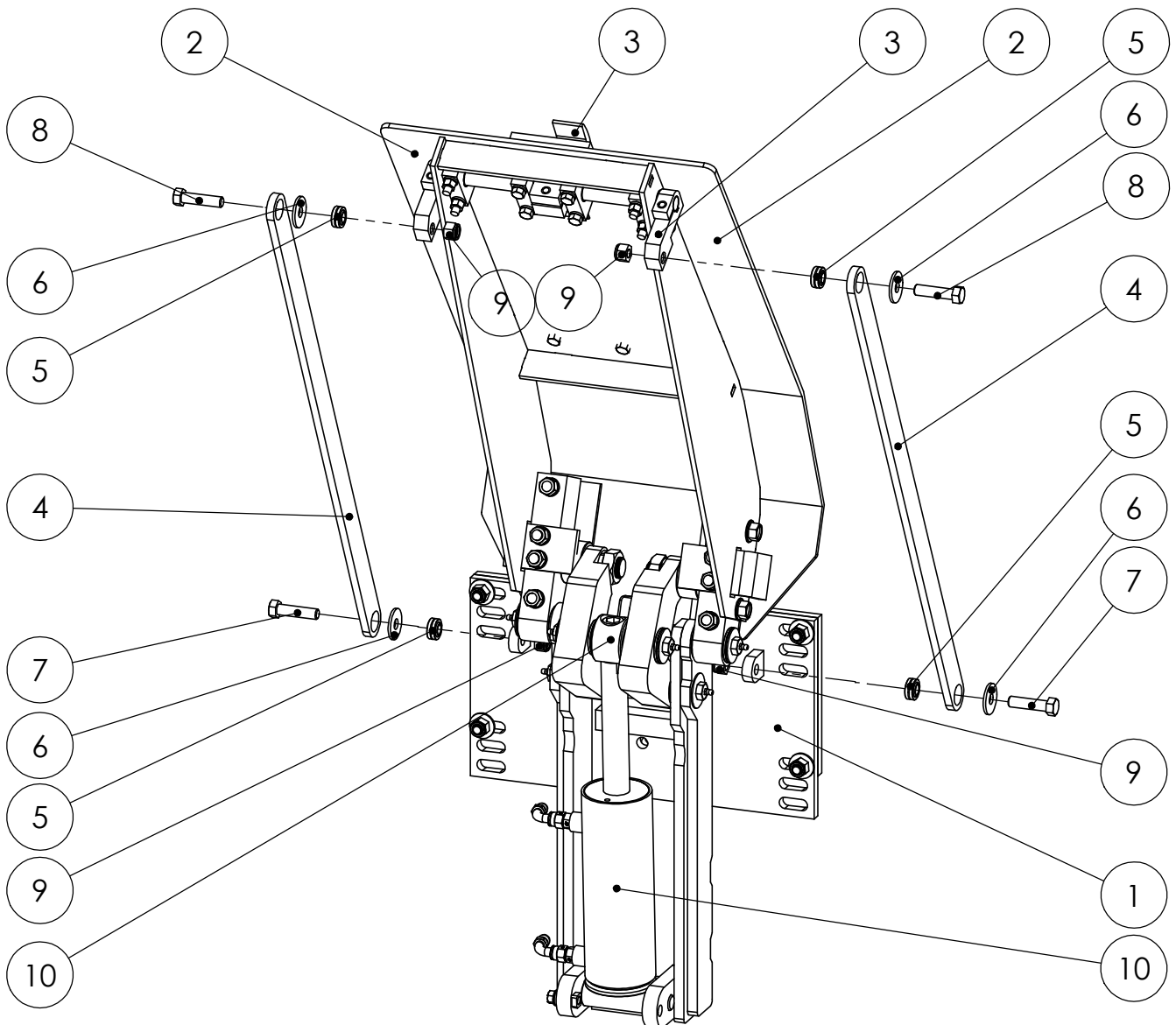
**Barker Products warranties each new dump unit to be free of defects in material and workmanship under normal use and service for a period of 1 year or 2000 hours of operation, whichever comes first, from the date of delivery.**

**This warranty excludes any obligations by BARKER PRODUCTS for the cost of down time. BARKER PRODUCTS will not warranty any dump unit which has been subject to misuse, neglect, alteration, or damaged by an accident.**

**On any work not performed by BARKER PRODUCTS or it's representative, the customer will be responsible for freight charges on all parts shipped under warranty. Parts will be invoiced at time of shipment. Defective parts must be returned to BARKER PRODUCTS within 30 days. If the part is determined to be defective the customer will be credited for the original invoice.**

**Customer warranty labor charges must be approved by BARKER PRODUCTS in advance. If not contacted for approval, BARKER PRODUCTS will not be liable for the warranty labor charge.**

ITEM NO.	PART NUMBER	DESCRIPTION	EXPLODED/QTY.
1	BWA17520	MAINFRAME SUB ASSY	1
2	BWA17535	LIFT PLATE SUB ASSY	1
3	BWA17620	HOOK SUB ASSY	1
4	BW17630	HOOK LINK	2
5	BW99108	1/2" SPHERICAL BEARING	4
6	XEA082412SS	FLAT WASHER 1/2 X 1 1/2 X 1/8	4
7	XAA081316	1/2-13 X 2 HHCS	2
8	XAA081312	1/2-13 X 1 3/4 HHCS	2
9	XDA081300	1/2-13 HEX NUT	4
10	BWA03055	CYLINDER SUB ASSY	1

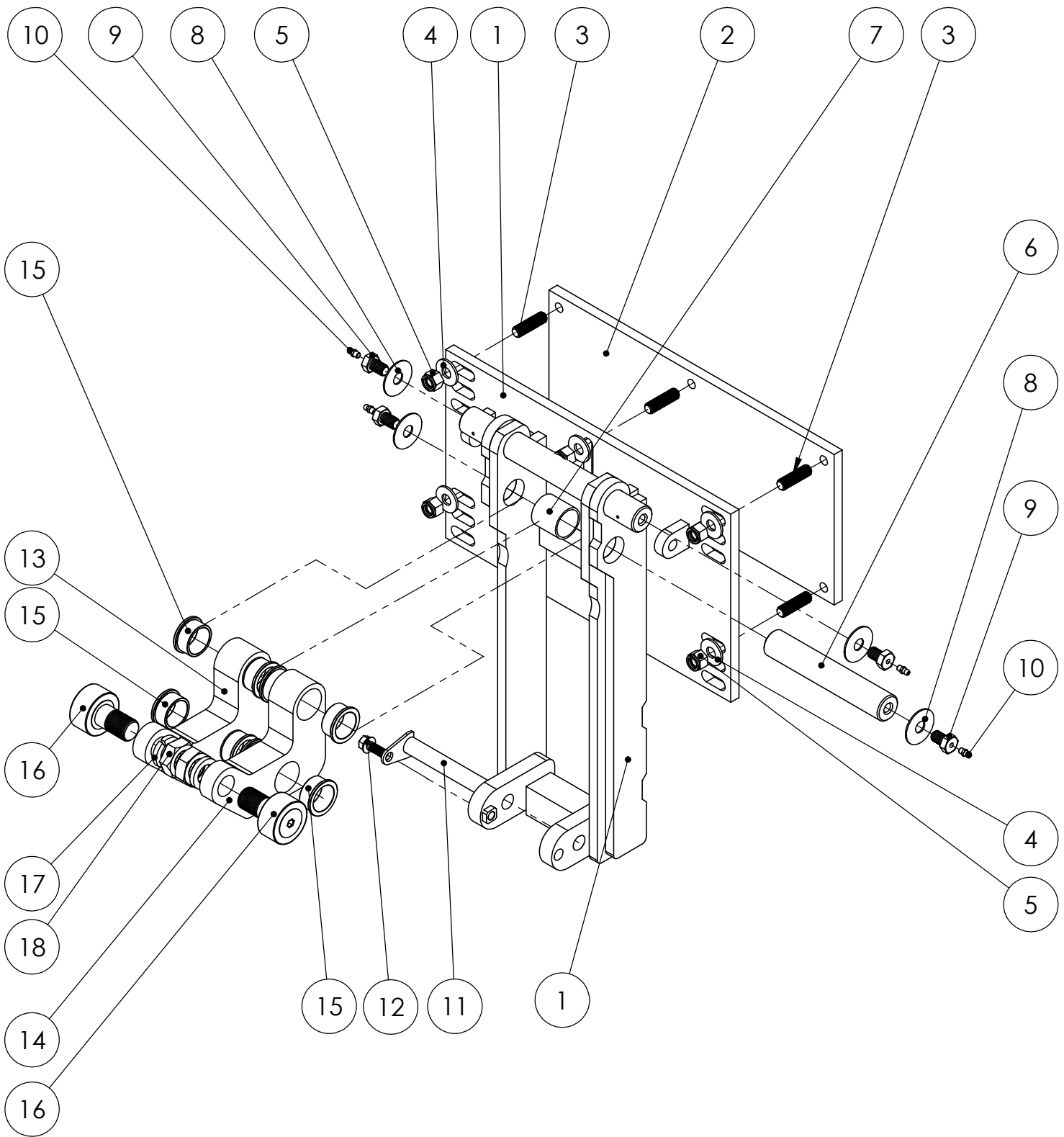


DO NOT SCALE DRAWING		BU03960 LIFT UNIT PARTS BPC-612N47 PARTS	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/32 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±0.010 THREE PLACE DECIMAL ±0.005		DRAWING NO BU03960 PARTS	REV 00
SCALE: 1:8		WEIGHT: 210.546 # SHEET 1 OF 1	



**BARKER PRODUCTS**  
1310 MILLER ROAD  
GREENVILLE, SC  
29607

DRAWN BY: R WYMAN  
DATE: 10/13/2017  
MATERIAL: NOTED



DO NOT SCALE DRAWING		MAINFRAME SUB ASSY PARTS 612	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/32$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm 0.010$ THREE PLACE DECIMAL $\pm 0.005$		DRAWING NO BWA17520 PARTS	REV 00
SCALE: 1:6		WEIGHT: 98.968 #	SHEET 1 OF 2



**BARKER PRODUCTS**  
1310 MILLER ROAD  
GREENVILLE, SC  
29607

DRAWN BY: R WYMAN  
DATE: 9/21/2017  
MATERIAL: NOTED

ITEM NO.	PART NUMBER	DESCRIPTION	EXPLODED/QTY.
1	BW17520	MAINFRAME	1
2	BW17525	MOUNT PLATE - N	1
3	BW07140	PLATE STUD	5
4	XEA081000	1/2" FLAT WASHER	5
5	XDC081300	1/2-20 NYLOK NUT	5
6	BW17600	LIFT LINK SHAFT	1
7	BW00770	LIFT LINK SPACER	1
8	BW07115	BEARING CAP WASHER	4
9	BW07110	BEARING CAP BOLT	4
10	BW01110	GREASE FITTING - 1/4-28 SHORT	4
11	BW03050	CYLINDER MOUNT PIN	1
12	XAE061608	3/8-16 X 1 FLANGED HHCS	1
13	BW17550	LEFT LIFT LINK	1
14	BW17560	RIGHT LIFT LINK	1
15	BW00934	CAST FLANGE BUSHING	8
16	BW99030	1 7/8 CAM FOLLOWER	2
17	XEB161000	1" LOCKWASHER	2
18	XDB161400	1"-14 HEX JAM NUT	2



**BARKER PRODUCTS**  
1310 MILLER ROAD  
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29607

DRAWN BY: R WYMAN

DATE: 9/21/2017

MATERIAL: NOTED

DO NOT SCALE  
DRAWING  
UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN INCHES  
TOLERANCES:  
FRACTIONAL ±1/32  
ANGULAR: MACH ±1° BEND ±1°  
TWO PLACE DECIMAL ±0.010  
THREE PLACE DECIMAL ±0.005

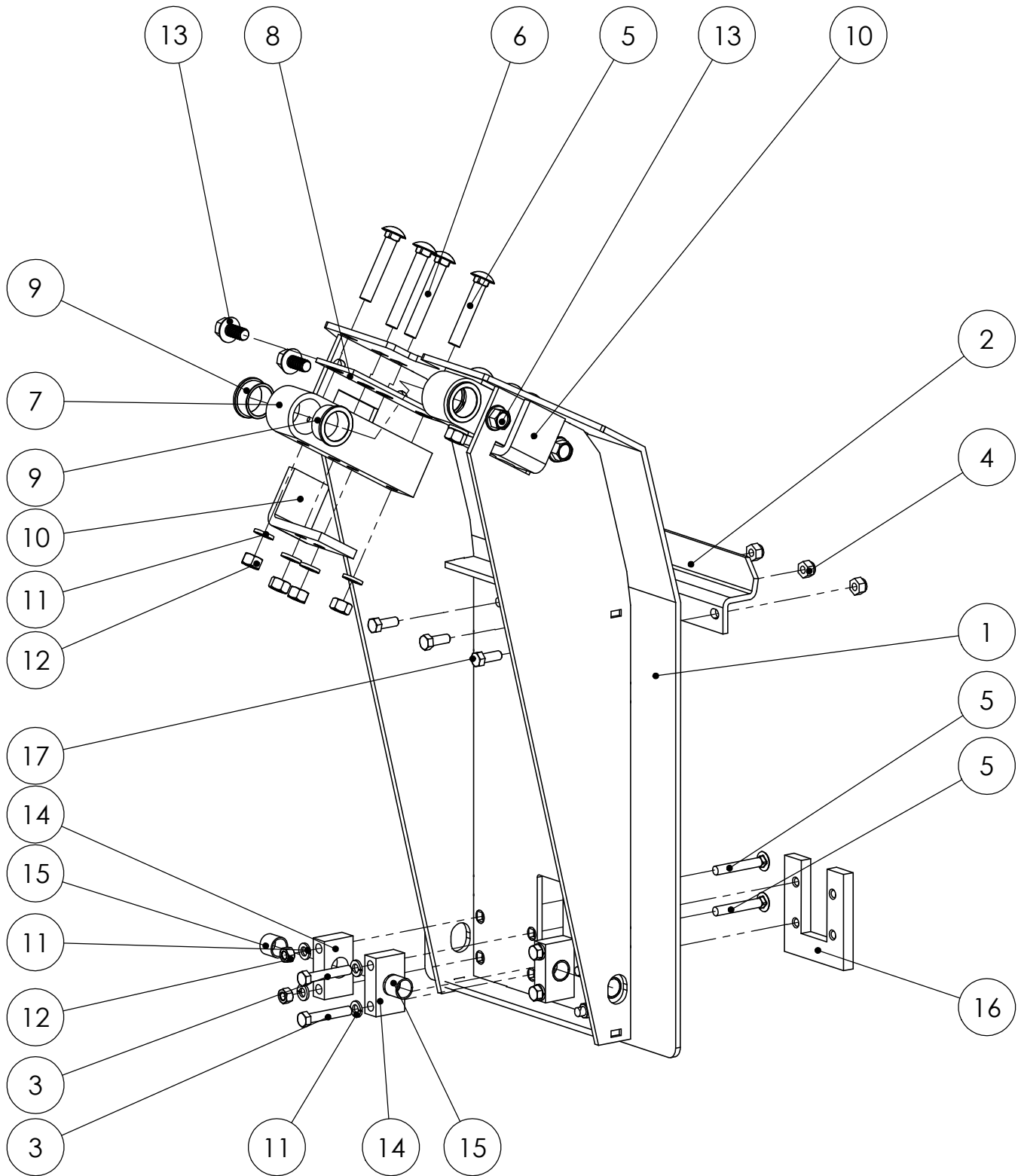
MAINFRAME SUB ASSY PARTS  
612

DRAWING NO  
BWA17520 PARTS

REV  
00

SCALE: 1:1 WEIGHT: 98.968 # SHEET 2 OF 2





DO NOT SCALE DRAWING		612HDN47 LP SUB ASSY PARTS LIFT PLATE SUB ASSY	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/32$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm 0.010$ THREE PLACE DECIMAL $\pm 0.005$		DRAWING NO BWA17535 PARTS	REV 00
MATERIAL: NOTED	SCALE: 1:6	WEIGHT: 81.751 #	SHEET 1 OF 2



**BARKER PRODUCTS**  
1310 MILLER ROAD  
GREENVILLE, SC  
29607

DRAWN BY: R WYMAN  
DATE: 10/9/2017  
MATERIAL: NOTED

ITEM NO.	PART NUMBER	DESCRIPTION	EXPLODED/QTY.
1	BW17535	LIFT PLATE	1
2	BW00800	SADDLE	1
3	XAA061618	3/8-16 X 2 1/4 HHCS	7
4	XDC061600	3/8-16 NYLOK NUT	3
5	XAH061620	3/8-16 X 2 1/2 CARRIAGE BOLT	8
6	XAH061624	3/8-16 X 3 CARRIAGE BOLT	4
7	BW17570	TRACK BAR	2
8	BW17580	TRACK PLATE 612	2
9	BW00934	CAST FLANGE BUSHING	4
10	BW17595	TRACK CAP	2
11	XEB061000	3/8 LOCKWASHER	16
12	XDA061600	3/8-16 HEX NUT	12
13	XAE081308	3/8-16 X 1 FLANGED HHCS	4
14	BW17130	HOOK BEARING MOUNT	4
15	BW03195	12-DU-12 BEARING	4
16	BZ03451	SUPPORT PLATE	1
17	XAA061608	3/8-16 X 1 HHCS	3



**BARKER PRODUCTS**  
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DRAWN BY: R WYMAN  
DATE: 10/9/2017  
MATERIAL: NOTED

DO NOT SCALE  
DRAWING  
UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN INCHES  
TOLERANCES:  
FRACTIONAL ±1/32  
ANGULAR: MACH ±1° BEND ±1°  
TWO PLACE DECIMAL ±0.010  
THREE PLACE DECIMAL ±0.005

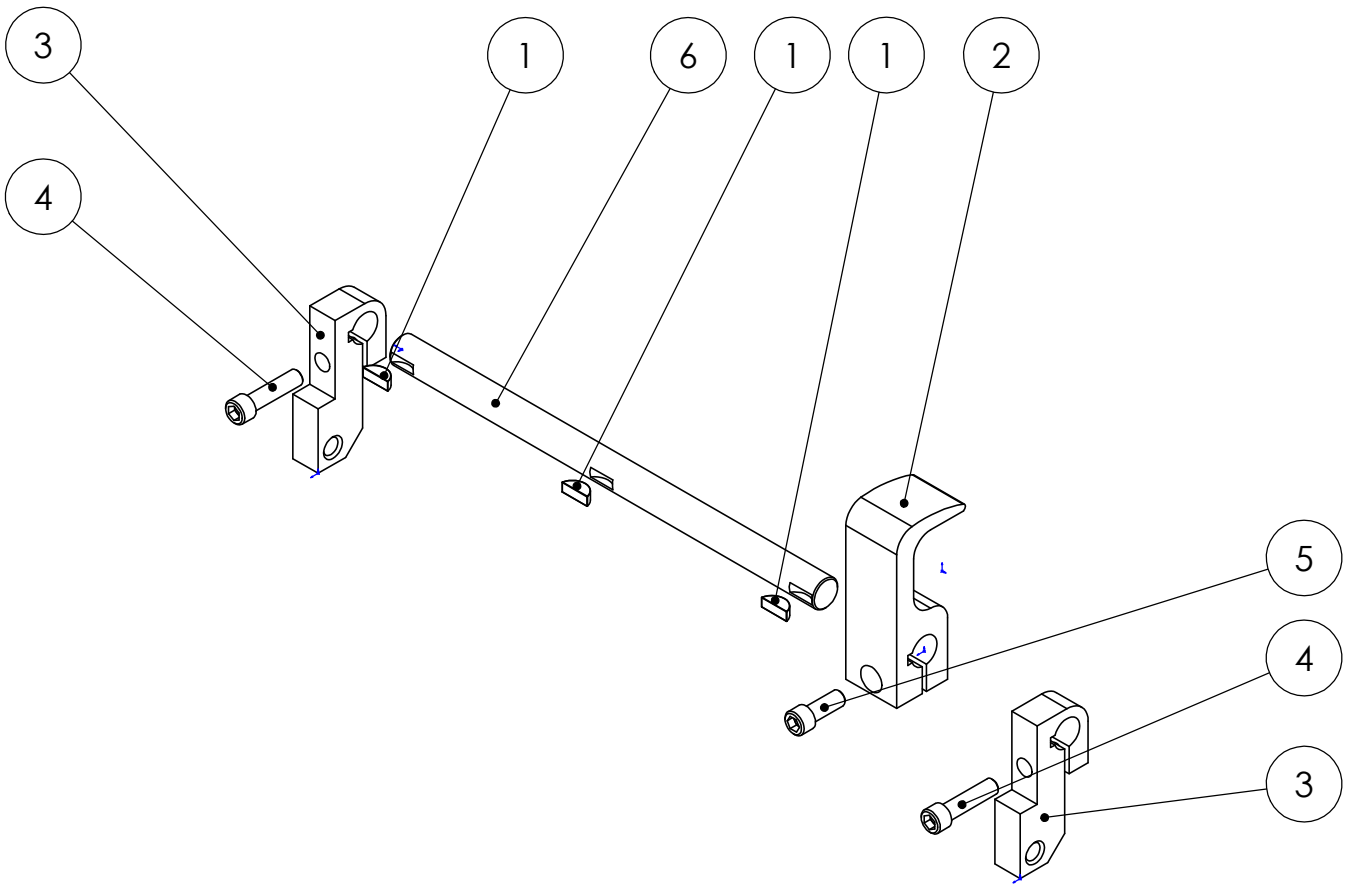
612HDN47 LP SUB ASSY PARTS  
LIFT PLATE SUB ASSY

DRAWING NO  
BWA17535 PARTS

REV  
00

SCALE: 1:1 WEIGHT: 81.751 # SHEET 2 OF 2

ITEM NO.	PART NUMBER	DESCRIPTION	EXPLODED/QTY.
1	BW07560	WOODRUFF KEY #806	3
2	BW07490	HOOK	1
3	BW06780	HOOK DRIVE	2
4	XAB061612	3/8-16 X 1 1/2 SHCS	2
5	XAB061608	3/8-16 X 1 SHCS	1
6	BW17620	HOOK SHAFT	1



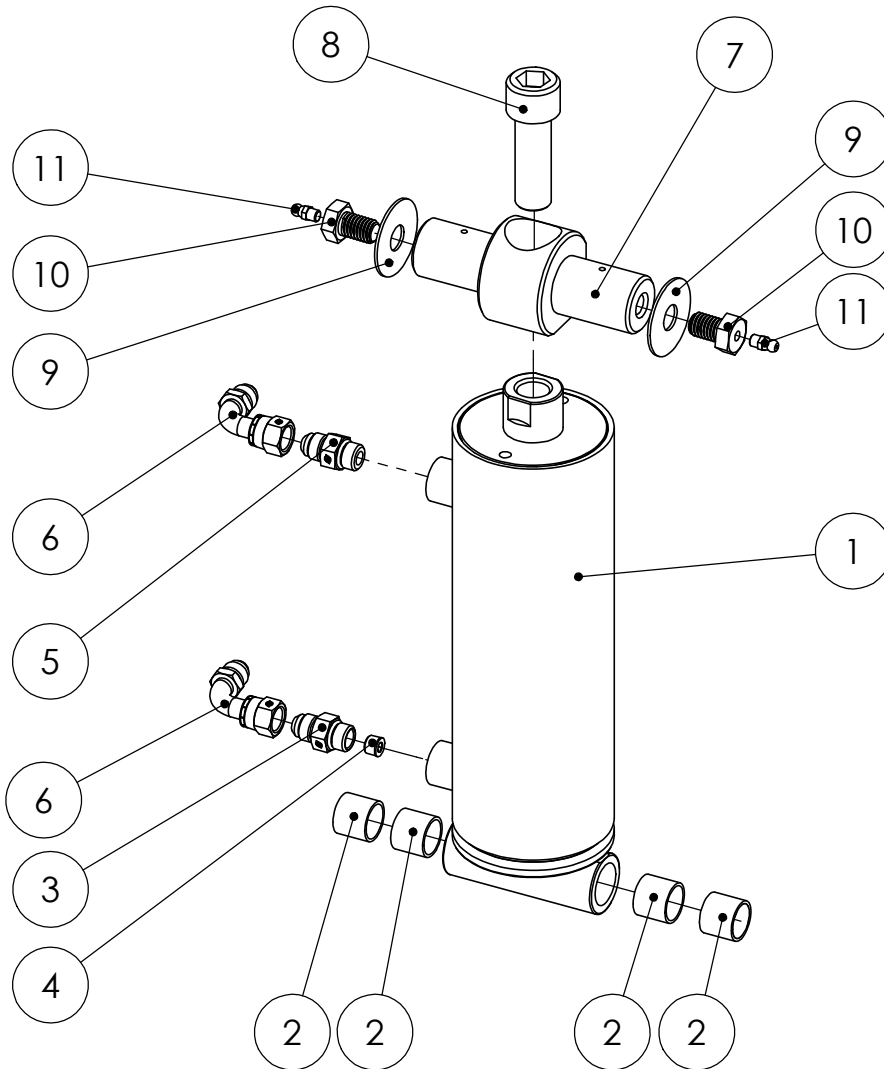
<b>DO NOT SCALE DRAWING</b> UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/32 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±0.010 THREE PLACE DECIMAL ±0.005	<b>HOOK SUB ASSY PARTS</b> 612		REV 00
	DRAWING NO <b>BWA17620 PARTS</b>	SCALE: 1:4	WEIGHT: 4.880 #



**BARKER PRODUCTS**  
 1310 MILLER ROAD  
 GREENVILLE, SC  
 29607

DRAWN BY: R WYMAN  
 DATE: 9/28/2017  
 MATERIAL: NOTED

ITEM NO.	PART NUMBER	DESCRIPTION	EXPLODED/QTY.
1	BW03055	HYDRAULIC CYLINDER 3 X 6	1
2	BW03195	12-DU-12 BEARING	4
3	BV00064	6T X 6S ORIFICE FITTING	1
4	BV00025	116 X 1/8 NPT ORIFICE PLUG	1
5	BR03830	6400-06-06 M TUBE O-RING	1
6	BR05106	6701-06-06 M37 X FS37	2
7	BW00865	ROD TRUNNION	1
8	XAB121618	3/4-16 X 2 1/4 SHCS	1
9	BW07115	BEARING CAP WASHER	2
10	BW07110	BEARING CAP BOLT	2
11	BW01110	GREASE FITTING - 1/4-28 SHORT	2



DO NOT SCALE DRAWING		CYLINDER SUB ASSY PARTS	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/32 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±0.010 THREE PLACE DECIMAL ±0.005		612	
DRAWN BY: R WYMAN		DRAWING NO	REV
DATE: 9/27/2017		BWA03055 PARTS	00
MATERIAL: NOTED		SCALE: 1:4	WEIGHT: 15.255 #
		SHEET 1 OF 1	



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