



B-SERIES

PARTS COUNTERMAN'S CATALOG

Section 1

Boom Components



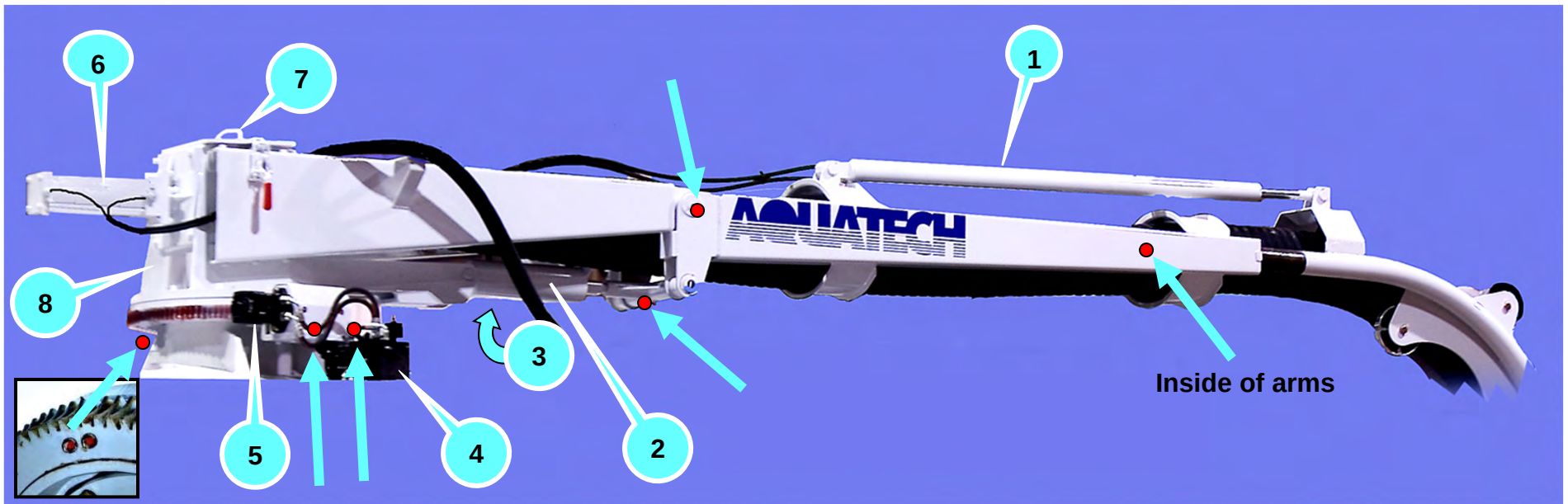
STANDARD B-SERIES BOOM

This boom uses hydraulic and pneumatic power for all of its functions. There are two hydraulic cylinders. One is used to telescope the boom in and out (#1). The other cylinder (#2) raises and lowers the boom. There is an adjustable needle valve (#3) on this cylinder to control how fast the boom can be lowered. A hydraulic motor (#5) drives a worm gear to articulate the boom 180 degrees clockwise or counter-clockwise. The electric over hydraulic valve (#4 compound valve) controls all functions. In the case of an electrical failure the compound valve has a manual override built into it.

MAINTENANCE – Grease all zerk fittings every 100 hours and brush grease on ring gear.

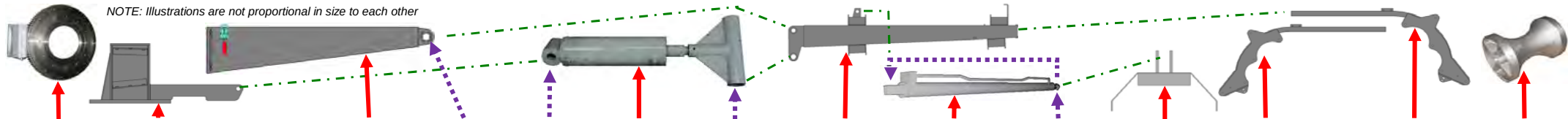
- | | |
|--|------------------------------------|
| 1. Telescoping cylinder | 5. Hydraulic motor and worm gear |
| 2. Lifting cylinder | 6. Pneumatic cylinder (BOOM VALVE) |
| 3. Adjustable needle valve is on opposite side of cylinder in this picture | 7. Inspection cover |
| 4. Boom control, compound solenoid valve | 8. Turret |

● ← Grease fitting locations



AQUATECH®
EXTENDING BOOMS

NOTE: When combination machines (jet-vacs) were first developed in the early 70s, they were all front reel units with the boom facing toward the front of the vehicle. So when RH is designated it will be on the LH side on a rear facing boom.



Description	Boom Assembly	Boom Sub-Assy.	Turret Bearing	Turret Housing	LH * Anchor Arm	RH * Anchor Arm	Anchor Arm Pivot Pin	Lift Cylinder Base Pin	Lift Cylinder Assy. with Crosshead	Crosshead Pin	Gantry (Extension Arm Assy)	Extension Cylinder	Extension Cylinder Pin(s)	Extension Tube Straddle Bracket	RH Extension Tube	LH Extension Tube	Note	Boom Hose Rollers
6" X 19' Reach Boom	A249393	A249392	A384051	A240932	A241117-SRV	A241116-SRV	A241115	A238443	A241285	A238444	A238440	A241284	A238446 (2)	A240890	A241114	A240950	+	A238409 (5)
6" X 19' Reach Boom	A241102-10	A240943-10	A384051	A240932	A241117-SRV	A241116-SRV	A241115	A238443	A241285	A238444	A238440	A241284	A238446 (2)	A240890	A241114	A240950	+	A238409 (5)
8" X 14.5" Reach Boom, B6	A241102-3	A240943-4	A384051	A240932-1	A241117-3	A241116-3	A241115	A238443	A241285	A238444	A238440-4	A110221	A238446 (2)	A240891-1	A241114-3	A240950-3		A238409 (5)
8" X 14.5" Reach Boom, B6	A241102-6	A240943-8	A384051	A240932-1	A241117-3	A241116-3	A241115	A238443	A241285	A238444	A238440-4	A110221	A238446 (2)	A240891-1	A241114-3	A240950-3		A238409 (5)
8" X 18.5' Reach Boom - (Shortened)	A241102-5	A240943-6	A384051	A240932	A241117-SRV	A241116-SRV	A241115	A238443	A241285	A238444	A238440	A241284	A238446 (2)	A240890	A241114-4	A240950-4		A238409 (5)
8" X 19' Reach Boom - 53" Stroke (Standard Boom)	A241102	A240943	A384051	A240932	A241117-SRV	A241116-SRV	A241115	A238443	A241285	A238444	A238440	A241284	A238446	A240890	A241114	A240950	+	A238409 (5)
8" X 19' Reach Boom - Dual Ext. Cylinders	A241102-DBL-EXT	A240943-DBL-EXT	A384051	A240932LC	A241117LC-SRV	A241116-SRV	A241115	A238443	A241285	A238444	A238440-DBL-EXT	A241284 (2)	A238446 (2)	A240890LC	A241114LC	A240950-DBL-EXT		A238409 (5)
8" X 19' Reach Boom - Dual Ext. Cylinder, X-10	A383854	A383853	A384051	A240932LC	A241117LC-SRV	A241116-SRV	A241115	A238443	A241285	A238444	A383851	A241284 (2)	A238446	A240890LC	A241114LC	A383852		A238409 (5)
8" X 19' Reach Boom - Dual Ext. Cylinder, X-10 revised	A383854A	A383853A	A384051	A240932LC	A241117LC-SRV	A241116-SRV	A241115	A238443	A241285	A238444	A383851	A241284 (2)	A238446	A240890LC	A241114LC	A383852		A238409 (5)
8" X 19' Reach Boom - Front Reel	A241102-19FR	A240943-19FR	A384052	A387272	A241117-SRV	A241116-SRV	A241115	A238443	A241285	A238444	A238440-19FR	A241284	A238446 (2)	A240890	A241114-19FR	A240950-19FR		A238409 (5)
8" X 19' Reach Boom - Low Clearance	A241102LC	A240943LC	A384051	A240932LC	A241117LC-SRV	A241116-SRV	A241115	A238443	A241285	A238444	A238440LC	A241284	A238446	A240890LC	A241114LC	A240950LC		A238409 (5)
8" X 19' Reach Boom - Modified for X-Vacs	A241102-M	A240943	A384051	A240932	A241117-SRV	A241116-SRV	A241115	A238443	A241285	A238444	A238440	A241284	A238446	A240890	A241114	A240950	+	A238409 (5)
8" X 19' Reach Boom - No Flapper Valve, X-10	A382529	A382528	A384051	A240932	A241117-SRV	A241116-SRV	A241115	A238443	A241285	A238444	A238440	A241284	A238446 (2)	A240890	A241114	A240950	+	A238409 (5)
8" X 19' Reach Boom - w/HC Turret Brg.	A249347	A249346	A384052	A249345	A241117-SRV	A241116-SRV	A241115	A238443	A241285	A238444	A238440	A241284	A238446 (2)	A240890	A241114	A240950	+	A238409 (5)
8" X 19' Reach Boom - w/HC Turret Brg., Low Clearance	A249347LC	A249346LC	A384052	A249345LC	A241117LC-SRV	A241116-SRV	A241115	A238443	A241285	A238444	A238440LC	A241284	A238446 (2)	A240890LC	A241114LC	A240950LC		A238409 (5)
8" X 21' Reach Boom	A241102-8	A240943-9	A384051	A240932	A241117-SRV	A241116-SRV	A241115	A238443	A241285	A238444	A238440-8	A241284	A238446 (2)	A240890	A241114	A240950	+	A238409 (5)
8" X 22' Reach Boom - 53" Stroke	A241102-2	A240943-1	A384051	A240932	A241117-SRV	A241116-SRV	A241115	A238443	A240708-1	A238444	A238440-1	A241284	A238446	A240890	A241114	A240950	+	A238409 (5)
8" X 22' Reach Boom - Low Clearance	A241102-1LC	A240943-1LC	A384051	A240932LC	A241117LC-SRV	A241116-SRV	A241115	A238443	A241285	A238444	A238440-1LC	A241284	A238446	A240890LC	A241114LC	A240950LC		A238409 (5)
8" X 22' Reach Boom - Low Clearance	A241102-2LC	A240943-1LC	A384051	A240932LC	A241117LC-SRV	A241116-SRV	A241115 (2)	A238443	A241285	A238444	A238440-1LC	A241284	A238446	A240890LC	A241114LC	A240950LC		A238409 (5)
8" X 23' Reach Boom - 66" Stroke	A241102-4	A240943-5	A384052	A380174-1	A241117-SRV	A241116-SRV	A241115 (2)	A238443	A240708-3	A238444	A238440-5	A241284-3	A238446 (2)	A240890	A241114-2	A240950-2		A238409 (5)
8" X 23' Reach Boom - Dual Ext. Cylinders	A241102-4-DBL-EXT	A240943-5-DBL-EXT	A384052	A380174-1	A241117LC-SRV	A241116-SRV	A241115 (2)	A238443	A240708-3	A238444	A238440-5-DBL-EXT	A241284-3 (2)	A238446 (2)	A240890	A241114-2LC	A240950-2LC		A238409 (5)
8" X 23' Reach Boom - No Flapper Valve	A382529-23	A382528-23	A384052	A380174-1	A241117-SRV	A241116-SRV	A241115 (2)	A238443	A240708-3	A238444	A238440-5	A241284-3	A238446 (2)	A240890	A241114-2			A238409 (5)
8" X 24' Reach Boom - 85" Stroke	A380533-2	A240943-7	A384052	A380174-1	A241117-SRV	A241116-SRV	A241115 (2)	A238443	A240708-3	A238444	A238440-2	A241284-4	A238446 (2)	A240890	A241114-5	A240950-5		A238409 (5)
8" X 25' Reach Boom - 66" Stroke	A380533-1	A240943-3	A384052	A380174-1	A241117-SRV	A241116-SRV	A241115 (2)	A238443	A240708-3	A238444	A238440-3	A241284-3	A238446 (2)	A240890	A241114-2	A240950-2		A238409 (5)
8" X 25' Reach Boom - 89" Stroke	A380533	A240943-2	A384052	A380174-1	A241117-SRV	A241116-SRV	A241115 (2)	A238443	A240708-3	A238444	A238440-2	A241284-2	A238446 (2)	A240890	A241114-1	A240950-1		A238409 (5)
8" X 25' Reach Boom - Dual Ext. Cylinders	A380533-DBL-EXT	A240943-2-DBL-EXT	A384052	A380174-1	A241117LC-SRV	A241116-SRV	A241115 (2)	A238443	A240708-3	A238444	A238440-2-DBL-EXT	A241284-2 (2)	A238446 (2)	A240890LC	A241114-1LC	A240950-1LC		A238409 (5)
8" X 25' Reach Boom - No Flapper Valve	A380533-XVAC	A240943-2-XVAC	A384052	A380174-1	A241117-SRV	A241116-SRV	A241115 (2)	A238443	A240708-3	A238444	A238440-2	A241284-2	A238446 (2)	A240890	A241114-1	A240950-1		A238409 (5)
8" X 25' Reach Boom - Slew Drive	A380533-SLEW-MOD	A240943-2-SLEW	A304675	A380174-1	A241117-SRV	A241116-SRV	A241115 (2)	A238443	A240708-3	A238444	A238440-2	A241284-2	A238446 (2)	A240890	A241114-1	A240950-1		A238409 (5)
8" X 27' Reach Boom	A304020	A240943-27	A384052	A380174-1	A241117-SRV	A241116-SRV	A241115 (2)	A238443	A240708-3	A238444	A238440-7	A241284-2	A238446 (2)	A240890	A241114-1	A240950-1		A238409 (5)

* Orientation: Boom swung to the front. (RH Shown above.)

Anchor Arm Mtg. Hdw. (12 Ea)
A105176 Bolt
A107298 Flat Washer

+ p/n's A240890, A241114 & A240950 can be ordered as an assembly under p/n A241125



BILL OF MATERIALS FOR BOOM LIFT CYLINDER ASSEMBLIES

DESCRIPTION	PART NO.	A240708 (NLA)	A241285 (NLA)	A240708-1 (NLA)	A240708-3 (NLA)
7/32" X 3" COTTER PIN, PLATED	A102820			1	
NUT,JAM,1-1/4"-12,PLT,GR8	A107177	No Longer Used			
SCREW,SET,3/8"-24 X 3/8",CONE PT,PLTD	A107363	1	1	1	1
VALVE,FLOW CONTROL,1/4" ADJUSTABLE	A110275		1	1	1
CYLINDER,BOOM LIFT,RJ (CYLINDER ONLY)	A110645-1-RJ	1	1	1	
CYLINDER,BOOM LIFT,RJ (CYLINDER ONLY)	A110645-5-RJ				1
ADAPTER,STR,3/8"MNPT X 1/4" MNPT	A132050		1	1	1
ADAPTER,ELBOW,90D,#4MNPT X #6MJIC	A133050		1	1	1
ADAPTER,ELBOW,90D,STREET,#4MNPT X #4FNPT	A135301		1	1	1
ADAPTER,ELBOW,90D,3/8"MNPT X 3/8"MJIC	A135320		1		1
PLUG,BREATHING,3/8"NPT	A162134			1	
GREASE FITTING,90D	A221820		1	1	1
GREASE ZERK,1/4"-28	A221826		1		1
CROSSHEAD,BOOM CYLINDER,THREADED 1-1/4"-12	A242184	1	1	1	
CROSSHEAD,BOOM CYLINDER,THREADED 1-15/16"-12	A242184-2				1
ELBOW,BRASS,STREET,3/8"	02-3166			1	

<-- OLD NUMBER
<-- CURRENT NO.

Pin Retaining Hardware (Qty. Per Pin)			
LOCATION	PIN	COTTER KEY	ROLL PIN
Anchor Arm	A241115		A107327 (1)
Lift Cyl Base	A238443	A102700 (2)	
Crosshead	A238444	A102755 (2)	
Ext. Cylinder	A238446	A102700 (2)	



BILL OF MATERIALS FOR BOOM EXTENSION CYLINDER ASSEMBLIES

A241284 (r/b A241284-RJ) Boom Extension Cylinder Assy.

1 #	A110210-RJ	CYLINDER,BOOM EXTENSION,53" STROKE,R&J
2 #	A135060	ADAPTER,STR,#6MNPT X #6MJIC

A241284-1 (r/b A241284-1-RJ) Boom Extension Cylinder Assy.

1#	A380213-RJ	CYLINDER, EXT. HYD. CYL. FOR TELES. BOOM
2#	A380331	EXTENSION CYLINDER PIN
4#	A102820	7/32" X 3" COTTER PIN, PLATED

A241284-2 (r/b A241284-2-RJ) Boom Extension Cylinder Assy.

1 #	A380443-RJ	CYLINDER,BOOM EXTENSION,89" STROKE
2 #	A135170	ADAPTER,STR,3/8"MSAE X 3/8"MJIC

A241284-3 Boom Extension Cylinder Assy.

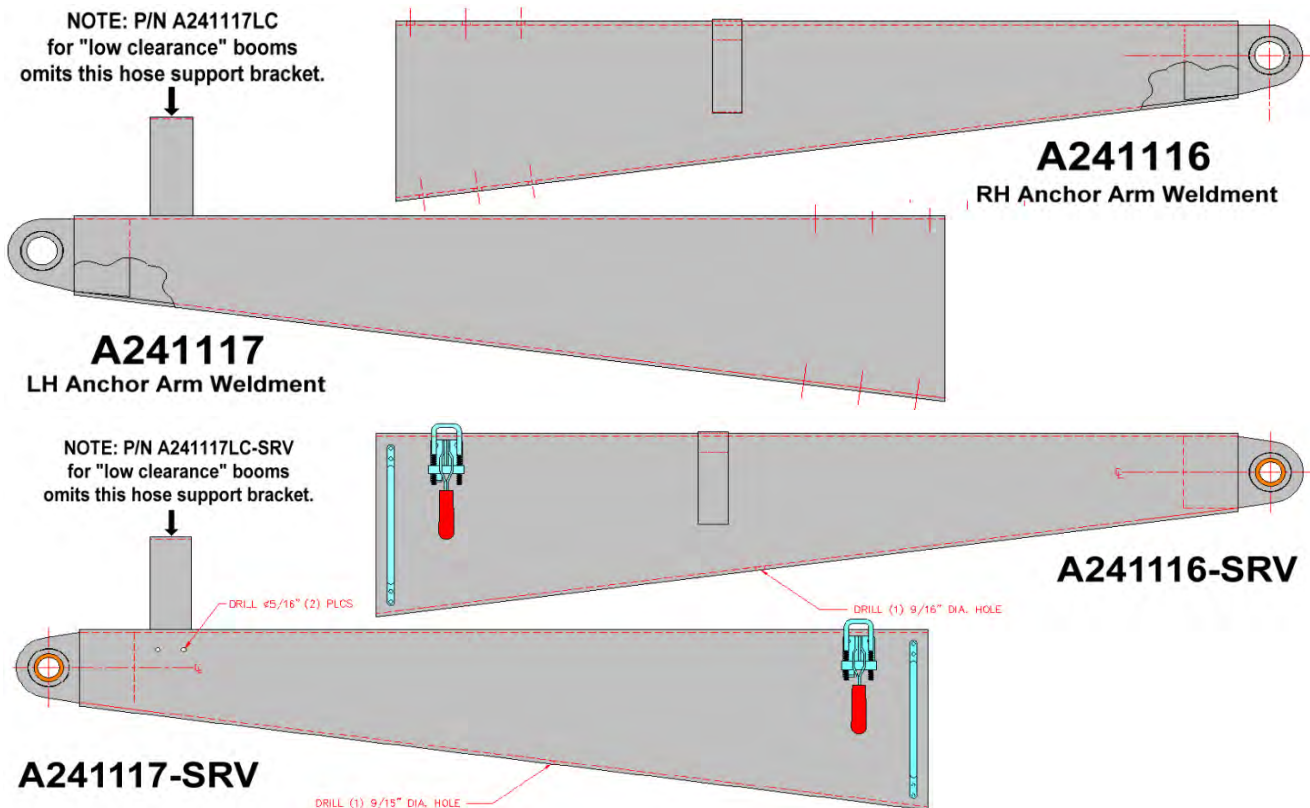
1 #	A110210-1-RJ	HYDRAULIC CYLINDER, 66" STROKE, RJ
1 #	A135060	ADAPTER,STR,#6MNPT X #6MJIC

A241284-4 (r/b A241284-4-RJ) Boom Extension Cylinder Assy.

1 #	A110359-RJ	CYLINDER,HYD,BOOM EXT.,2"BORE,85"STROKE
1 #	A135060	ADAPTER,STR,#6MNPT X #6MJIC

8" BOOM ANCHOR ARMS

The boom anchor arms (part numbers A241116 and A241117) which are called out in the owners manuals, are as supplied to our factory workers when the unit is being assembled. If the job requires boom lights, holes are drilled to mount the cord reel and guide tubes. If the turret has the quick release inspection plate, the over-center latches are welded to the top back edge of the anchor arms. If the unit has the "Access Steps" option, then grab handles are welded to the turret end of the anchor arms. Even the pin bushing is added during assembly. This creates an issue when a replacement anchor arm is ordered for a service repair and these features are absent, therefore we have created part numbers for service replacement anchor arms that incorporate all of these features.

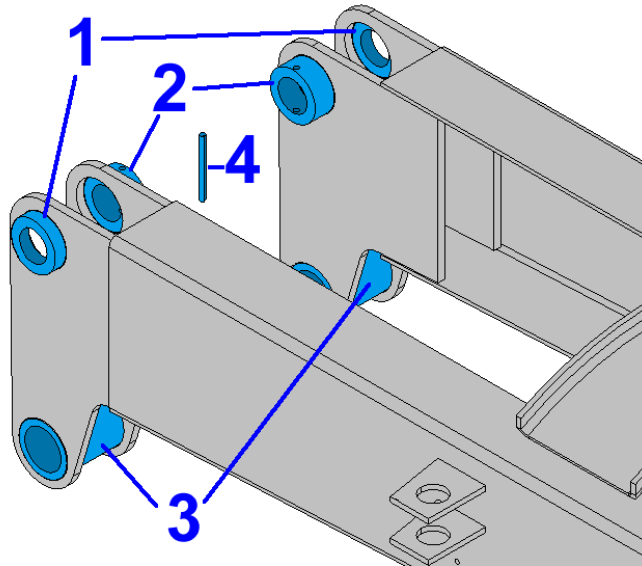


Please Note: These arms come primed only. Painting is an additional charge.

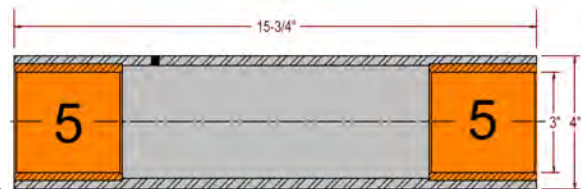
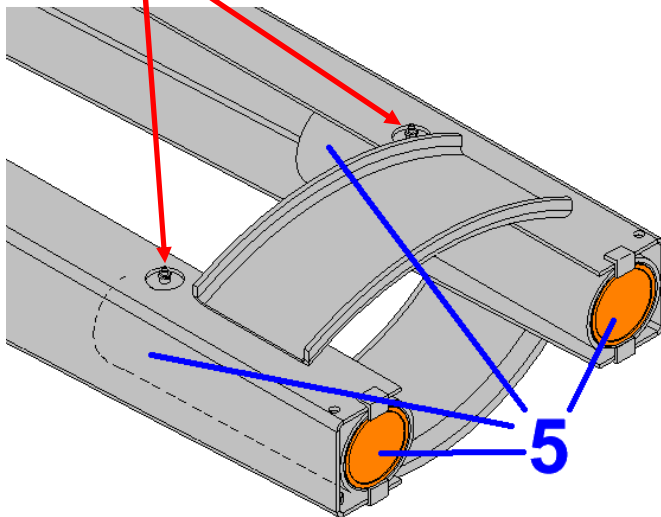
A241116-SRV BILL OF MATERIAL			A241117-SRV BILL OF MATERIAL			A241117LC-SRV B. O. M.		
Qty	Part No.	Part Description	Qty	Part No.	Part Description	Qty	Part No.	Part Description
1	A241116	RH Anchor Arm	1	A241117	LH Anchor Arm	1	A241117LC	LH LC Anchor Arm
1	A160199-1	Toggle Clamp	1	A160199-1	Toggle Clamp	1	A160199-1	Toggle Clamp
1	A220810	Grab Handle	1	A220810	Grab Handle	1	A220810	Grab Handle
1	A160284	Bronze Bushing, 1.5"ID	1	A160284	Bronze Bushing, 1.5"ID	1	A160284	Bronze Bushing, 1.5"ID

BOOM GANTRY (EXTENSION ARM) BUSHINGS

The gantry bushings should be greased every 100 hours of use with #2 Lithium short fiber grease.



1/8" MNPT Grease Zerks



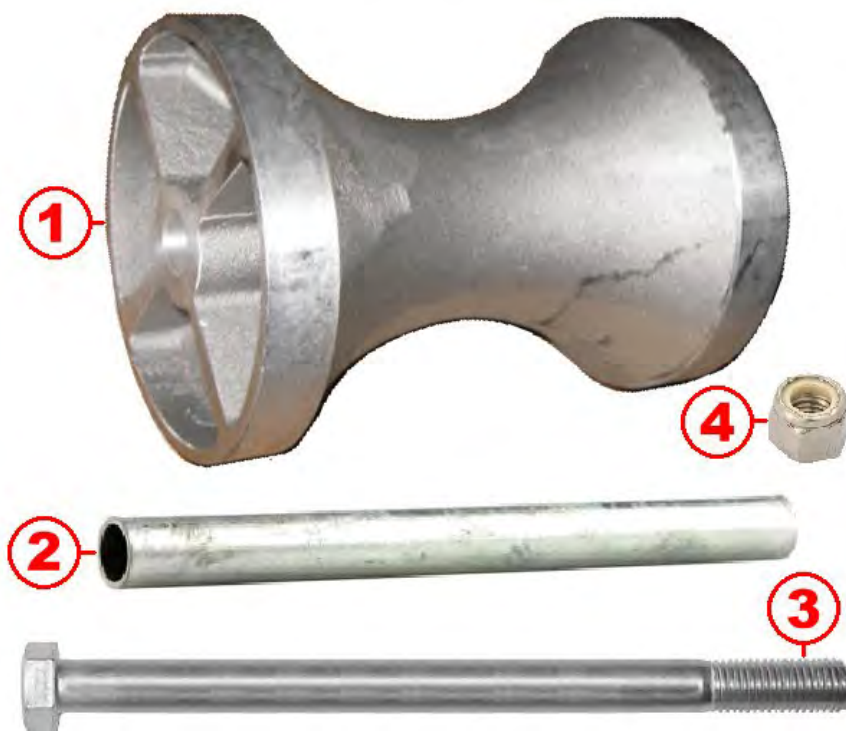
CROSS SECTION

ITEM	PART NO.	DESCRIPTION	QTY
1	A240815-MFD	UPPER GANTRY PIVOT BUSHING, OUTER	2
2	A240816-MFD	UPPER GANTRY PIVOT BUSHING, INNER	2
3	A240817	LOWER GANTRY LIFT BUSHING	2
4	A107327	SPRING PIN, 1/4" x 2 1/2"	2
5	A241126-2	BRONZE SLEEVE BUSHINGS F/EXT. TUBES	4

NOTE: These bushings are an integral part of the gantry weldment and are referenced here for service replacement purposes.

Revised 12/17/2018

8" BOOM HOSE ROLLER

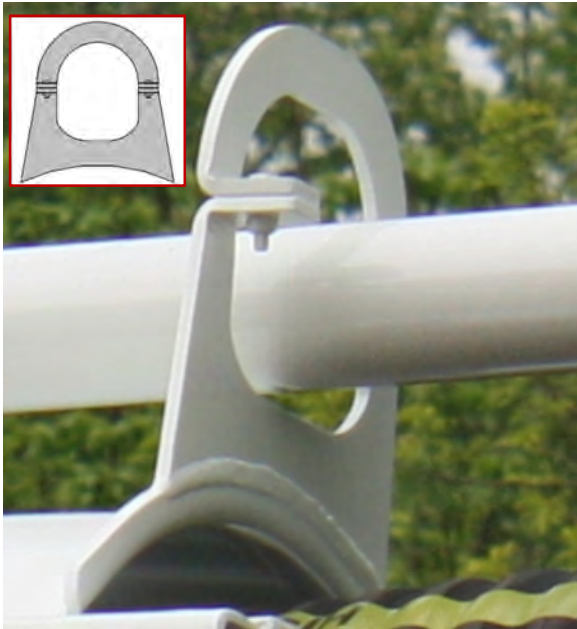
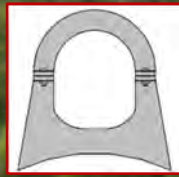


ITEM	PART NO.	DESCRIPTION
1	A238409	Roller, Aluminum Boom
2	A234183-24 B	Axle, Boom Roller, 1/2" Sch40 Pipe x 9-5/8"
3	A105517	Bolt, Hex Head, 5/8-11 x 11" Grade 8, Plated
4	A107024	Locknut, 5/8"11, Plated



NOTE: For the light bar installation to the left, a p/n A105527 11½" long axle bolt is required.

BOOM EXTENSION CYLINDER SUPPORTS



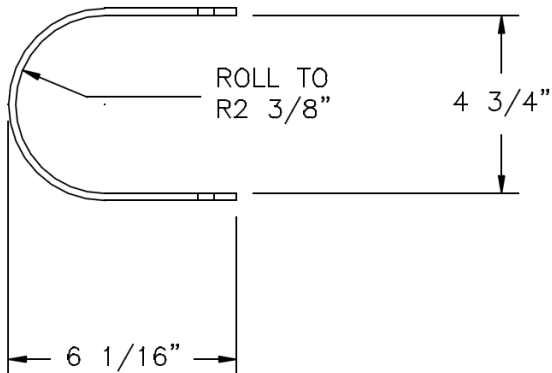
A100019

19', 23' & 25' Reach Booms



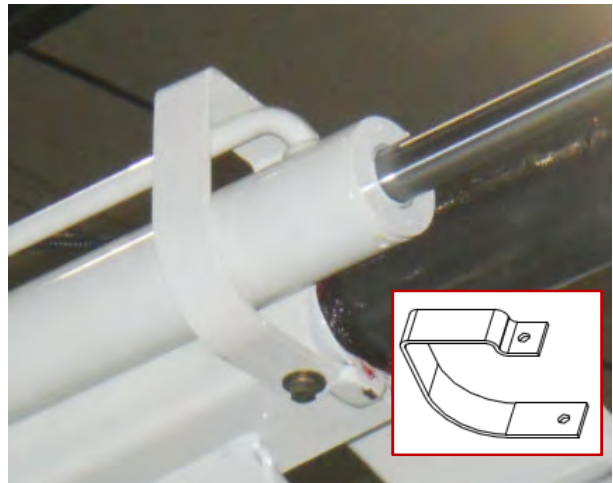
A100019-2

Offset for units with A110210-SI (OBS) Cylinder



A100019-LC

Units with Low Clearance Boom (Early)



A100019-LC-MOD

Units with Low Clearance Boom (Late)

Note: For listing of boom cylinders see the "Hydraulics Section"

TURRET BEARING FOR 8" BOOMS

Up until about 1990, the 8" booms used on Aquatech B-Series machines were imported. At least two different import models were ordered by the old Aquatech company. The one design featured a cast turret housing - the manufacturer informs us that parts for this unit are no longer available. The other had a fabricated steel turret. This boom is similar in appearance to the current 8" standard boom and the telltale difference is the turret bearing. The differences are noted below and if you are servicing a late 80s or early 90s boom, you can use this information to determine if you have the current Aquatech standard boom or not.



(bottom view - worm bearing & housing not shown)

IMPORT BOOM TURRET BEARING

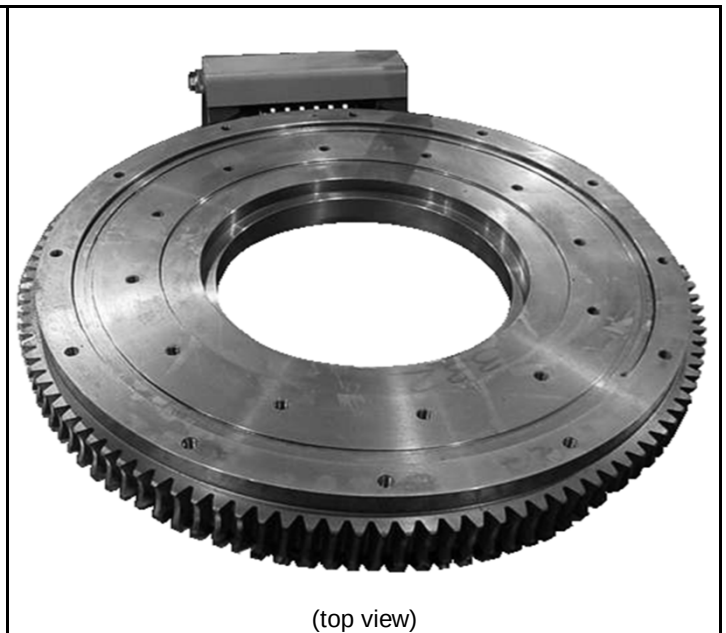
Assembly Part No. A159595

9-7/8" I.D. Center Hole

Ring Gear has 122 Teeth

Special order only - 6 - 8 weeks lead time.

Bearing & Ring Gear Only (w/o worm gear):
A238441 (pictured above)



(top view)

AQUATECH BOOM TURRET BEARING

Assembly Part No. A384051

(replaces A241090)

10-1/4" I.D. Center Hole

Ring Gear has 114 Teeth

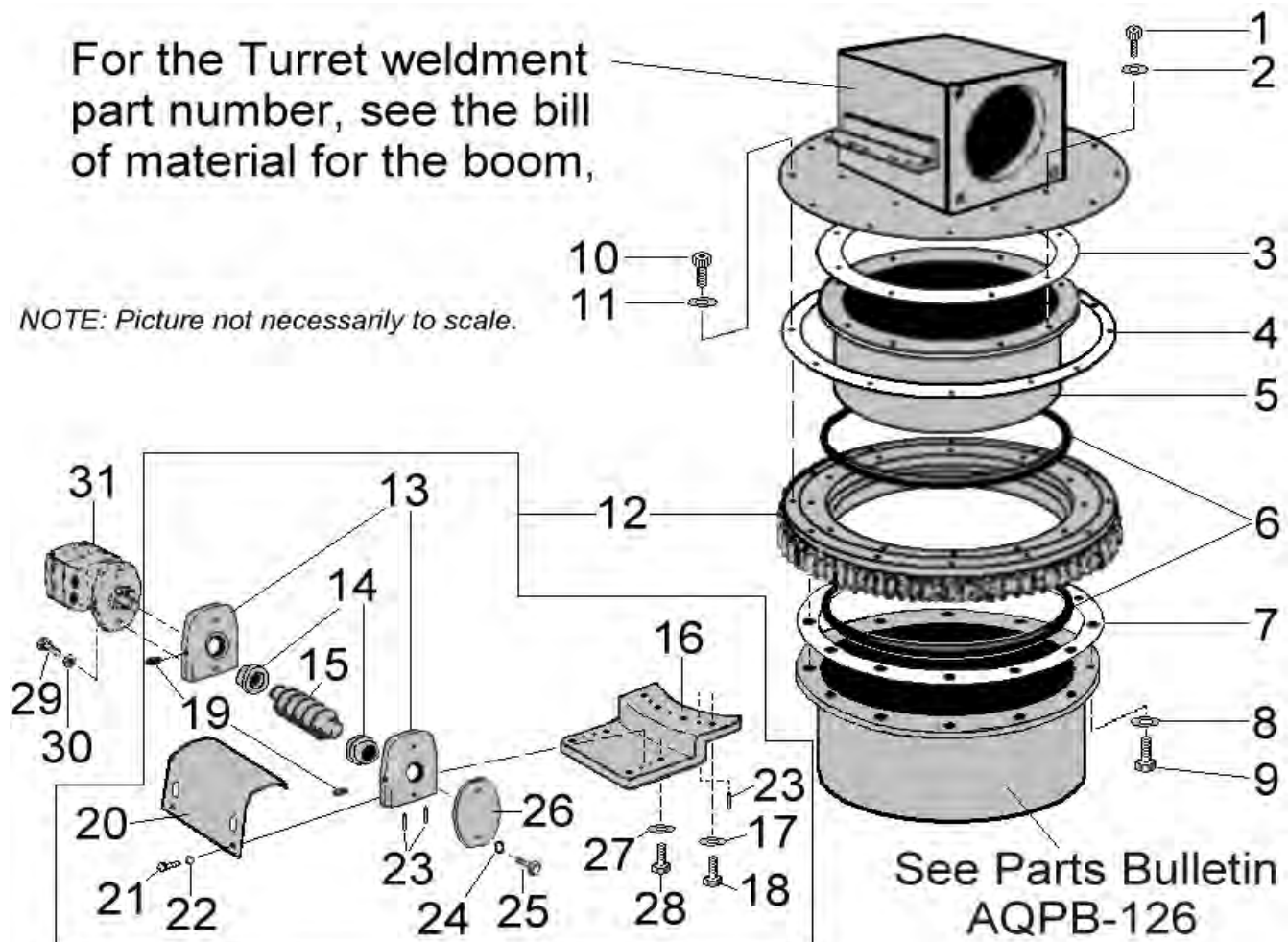
Current design - normally stocked item.

Bearing & Ring Gear Only (w/o worm gear): N/A
A156024 Outer Bearing Race & Ring Gear Only: NLA
A156022 Inner Bearing Race Only: NLA

Turret and mounting flange bolt patterns are virtually the same.

8" Boom Turret Bearing Parts List

For your convenience, here is a breakdown of our 8" boom turret bearing installation. To ensure proper clearances and life expectancy, the ring gear/outer race and inner race are sold only as an assembly with the worm gear assembly attached.



The parts list is found on the following page. When replacing the worm gear support brackets (item 13) the 5/16" diameter holes for the spring pins must be drilled. The procedure is to install the bolts loose, adjust the clearance between the worm gear and ring gear to a .007" to .009" backlash, tighten the bolts and then drill the holes using the holes in the worm mounting bracket (item 16) as a guide template.

8" Boom Turret Bearing Parts List

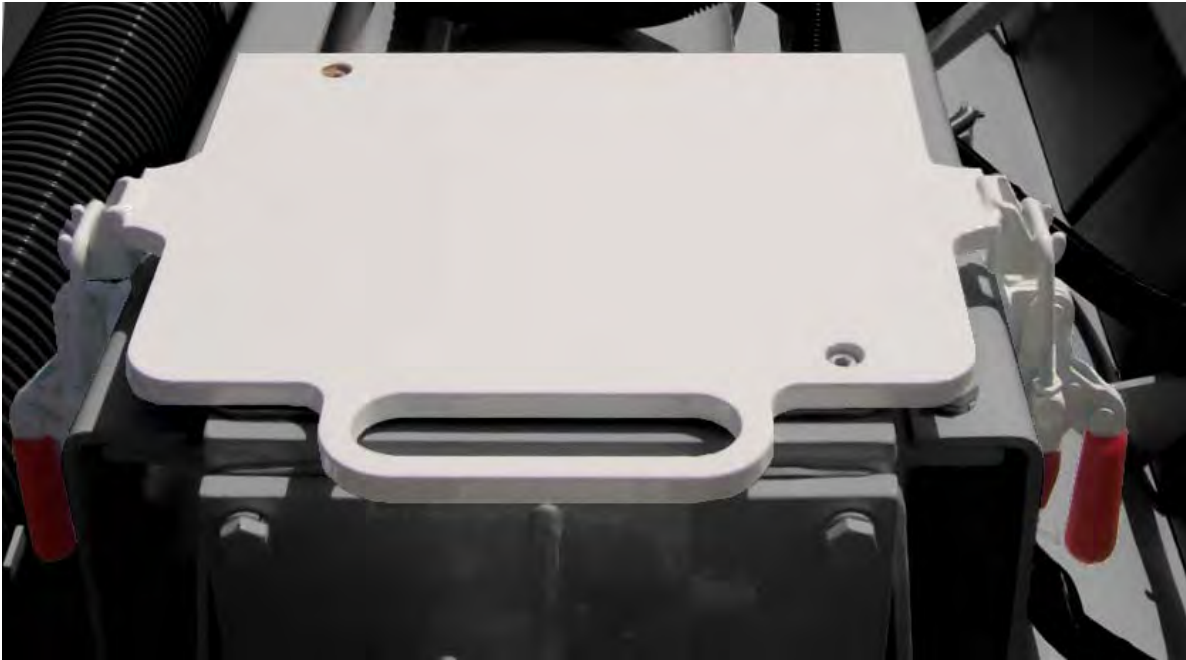
ITEM	DESCRIPTION	STANDARD	QTY	HIGH CAPACITY	QTY
1	3/8"-24 x 1-1/4" Socket Head Cap Screw	A104571	8	A104571	4
2	3/8" Lock Washer	A107294	8	A107294	4
3	Thimble To Turret Housing Gasket (12 hole)	A192014	1	A192014	1
4	Turret Housing to Bearing Gasket	A192009 (12 hole)	1	A380271 (24 hole)	1
5	Thimble	A241118	1	A241118	1
6	Thimble Seal	A191617	2	A191617	2
7	Bearing to Mounting Flange Gasket	A190870 (12 hole)	1	A380270 (24 hole)	1
8	1/2" Lock Washer GR8	A107298	12		
	3/4" Lock Washer GR8			A107304	24
9	1/2" x 1-3/8" Hex Head Cap Screw	A105138 (125#)	12		
	1/2" x 2" Hex Head Cap Screw *	A105192 (125#)	12		
	3/4" x 2-1/4" Socket Head Cap Screw			A380265 (175#)	24
10	7/16"-14 x 2-1/4" Socket Head Cap Screw	A104844 (70#)	12		
	5/8"-11 x 2-1/4" Socket Head Cap Screw			A380266 (75#)	24
11	7/16" Lock Washer	A104296	12		
	5/8" Lock Washer			A107302	24
12	Turret Bearing Assy. (includes 13 through 28)	A384051	1	A384052	1
13	Worm Gear Support Bracket	A240556	2	A240556	2
14	Worm Gear Bearing	A240571	2	A240571	2
15	Worm Gear	A240555	1	A240555	1
16	Worm Gear Mounting Bracket	A240558	1	A240558HC	1
17	1/2" Lock Washer GR8	A107298	4	A107298	4
18	1/2"-13 x 1-3/4" Hex Head Cap Screw GR8	A105182	4	A105182	4
19	Grease Zerk	A222286	2	A222286	2
20	Worm Gear Cover	A240557	1	A240557	1
21	1/4"-20 x 1/2" Hex Head Cap Screw	A103556	2	A103556	2
22	1/4" Lock Washer	A107290	2	A107290	2
23	5/16" x 1-3/8" Spring Pin	A107284	7	A107284	7
24	3/8" Lock Washer	A107294	2	A107294	2
25	3/8"-16 x 1-1/4" Hex Head Cap Screw	A104438	2	A104438	2
26	Bearing Cover	A240572	1	A240572	1
27	7/16" Lock Washer	A104296	4	A104296	4
28	7/16"-14 x 1-1/4" Hex Head Cap Screw	A104829	4	A104829	4
29	3/8"-16 x 1-1/4" Hex Head Cap Screw	A104438	2	A104438	2
30	3/8" Lock Washer	A107294	2	A107294	2
31	Hydraulic Motor	A110186	1	A110186	1

* Used on newer units were three 12-bolt adapter segments are mounted under a 24 hole flange.

= Ft. Lb. Torque



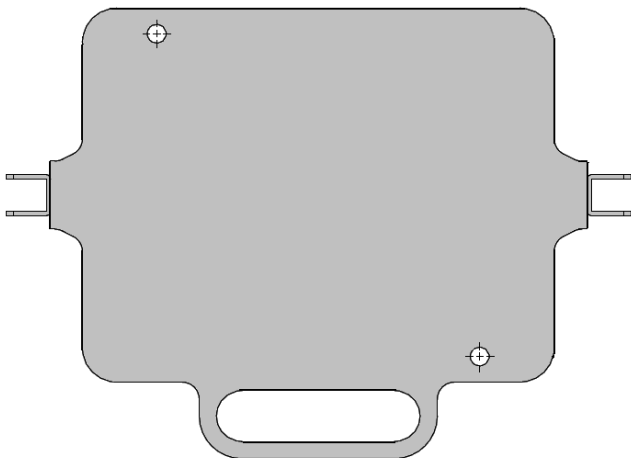
QUICK RELEASE TURRET CLEAN-OUT HATCH



1# A241129 TOP PLATE ASSY, TURRET QUICK DISCONNECT

1# A192010 GASKET, SQUARE BOOM TURRET FLANGE

2# A160199-1 CLAMP, TOGGLE LOCK (WELDED ON)



NOTE: The top plate was redesigned some years ago with an integral grab handle and replaces the earlier design pictured below.



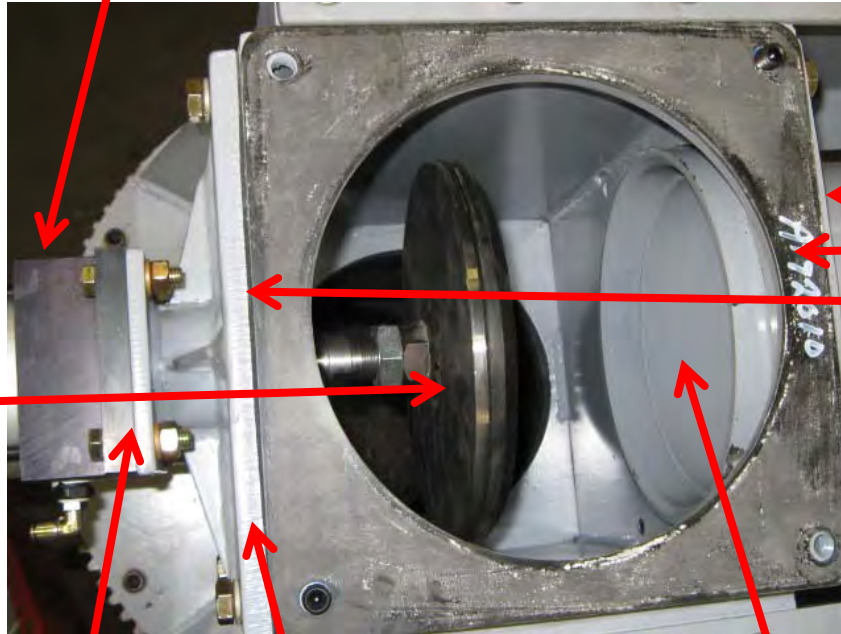


BOOM FLAPPER VALVE COMPONENTS



**A249777
Pneumatic Cylinder**

NOTE: See the Pneumatics Section (Section 8) for more information on the A249777 boom flapper cylinder.



**A192011
Flapper Valve
Seal Plate**



**A192010
Turret Flange
Gasket (top, front
and back)**



**A190907
O-Ring**

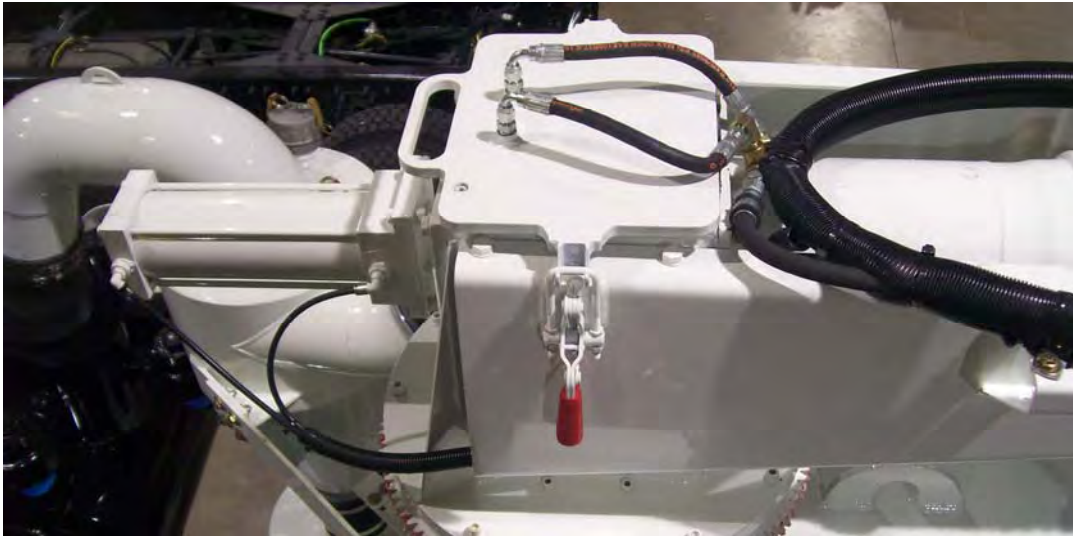
**A238449
Flange**



**A245581
Boom Hose Adapter**

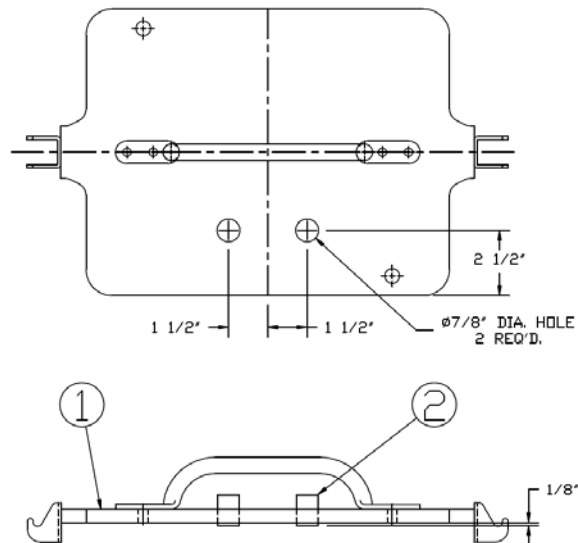
A241283 RETRO-FIT KIT FOR OBSOLETE A110664 CYLINDER

Level	Part Number	Description	Qty	U/M
1	A249777	CYLINDER, HYD/PNEU, 4" BORE, 10"	1	EA
1	A133640	BUSHING, REDUCER, HEX, 1/2" - 1/4"	2	EA
1	A238449	FLANGE, MOUNTING, BOOM FLAPPER C	1	EA
1	A190907	O-RING, FLAPPER CYLINDER MTG.	1	EA
1	A107296	WASHER, LOCK, 7/16", PLT, GR8	4	EA
1	A104880	SCREW, 7/16" - 20 X 1", HEX, PLTD, G	4	EA
1	A107090	NUT, HEX, 7/16-20, PLT, GR8	4	EA
1	A107170	NUT, JAM, 1" - 14, HH, GR8, PLATED	1	EA
1	A192011	SEAL PLATE, BOOM FLAPPER VALVE	1	EA



Part Number A381999-KIT KIT, WET RING SYSTEM,B-SERIES

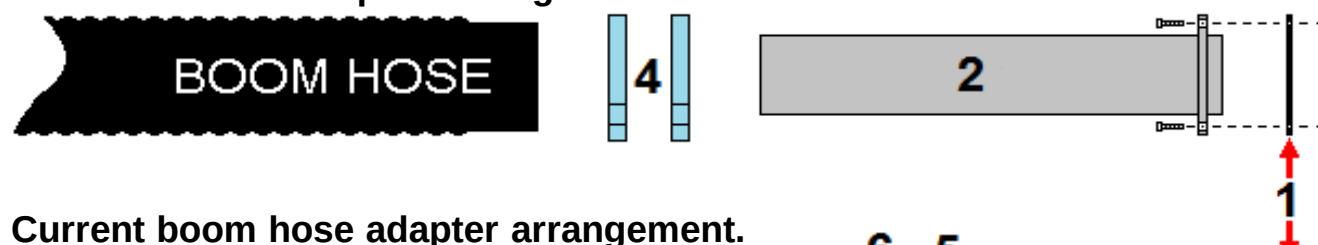
Level	Part Number	Description	Quantity	U/M	SC
1	A381906	VALVE,NEEDLE GLOBE,1/2",GRAFOI	1	EA	P
1	A241129-M	MODIFICATION,TOP PLATE,BOOM TU	1	EA	M
1	A110860	ADAPTER,STR,1/2"MNPT X 1/2"MJI	1	EA	P
1	A131300	ADAPTER,STR,3/8"MNPT X 1/2"MJI	1	EA	P
1	A380311	HOSE ASSY,1/2"-R2-12",1/2FJIC	1	EA	P
1	A136701	NOZZLE,FLAT V-SPRAY,5GPM @ 40P	2	EA	P
1	A132826	ADAPTER,TEE,STREET,1/2"	1	EA	P
1	A132210-2	NIPPLE,PIPE,1/2" X CLOSE,3000#	1	EA	P
1	A135340	ADAPTER,ELBOW,90D,#8MNPT X #8M	1	EA	P
1	A234482-21	HOSE ASSY,3/8"-R2-47",#6FJIC90	1	EA	P
1	A135320	ADAPTER,ELBOW,90D,3/8"MNPT X 3	2	EA	P
1	A135130	ADAPTER,UNION,1/2"MJIC X 1/2"M	2	EA	P
1	A130796	ADAPTER,TEE,UNION,#6MJ X #6MJ	1	EA	P
1	A234991-25	HOSE ASSY,3/8"-R2-12",#6FJIC90	2	EA	P
1	A234991-26	HOSE ASSY,3/8"-R2-200",#6FJIC	1	EA	P
1	A234991-27	HOSE ASSY,3/8"-R2-335",#6FJIC	1	EA	P



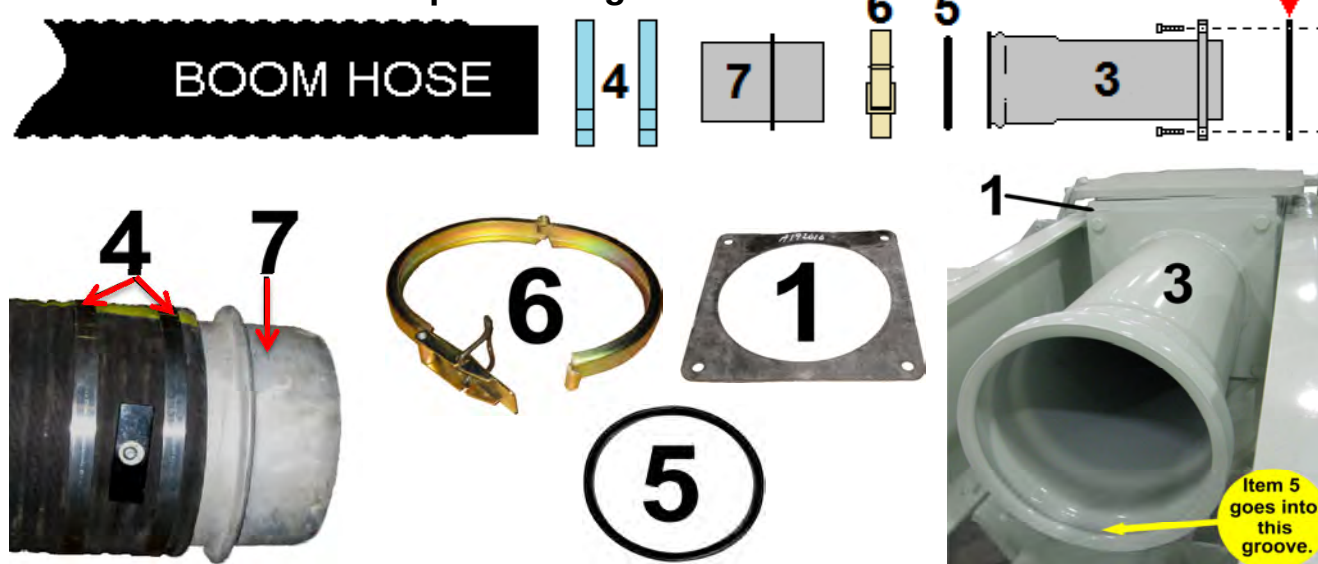
BOOM HOSE ADAPTER

For your convenience, here are the components used where the boom hose attaches to the boom turret for the 6" and 8" standard extending booms.

Old boom hose adapter arrangement - used until late 90s.



Current boom hose adapter arrangement.



ITEM	PN FOR 6" BOOM	PN FOR 8" BOOM	DESCRIPTION	QTY.
1	A192010	A192010	Turret Flange Gasket	1
2	--	A240940	Boom Hose Adapter (<i>old style up to late 90s</i>)	1
3	A249391	A245581	Boom Hose Adapter (<i>Late 90s on</i>)	1
4	A220720	A220720	Banding Type Clamp (<i>banding tool required</i>)	2
	10-0575	A381225	Alternative Field Installable T-Bolt Clamp	
5	U4805-0012	A191804	Ring Lock Seal (<i>rubber</i>)	1
6	U4804-0016	A220425	Ring Lock Clamp	1
7	A380754	A380355	Male Ring Lock Coupler Kit	1
CONSISTS OF		CONSISTS OF		
U4802-0040		U4802-0042	Coupler, Male Ring Lock	
(2) A380352		(3) A380352	Clip (Rectangular Plates)	
(2) A107016		(3) A107016	Locknut, 1/4"-20 Crimped	
(2) A103524		(3) A103524	Screw, 1/4"-20 Button Head	



A304020-SLEW HD BOOM



Part Number A304020-SLEW		BOOM ASSY, 8" X 27' EXTENDING, SLEW DRIVE			
Level	Part Number	Description	Quantity	U/M	SC
1	A240943-27-SLEW	BOOM SUB-ASSY, 27' EXTENDING, SL	1	EA	M
2	A107327	PIN, SPRING, 1/4" X 2 1/2" LG.	2	EA	P
2	A102700	PIN, COTTER, 4MM X 50MM, PLATED	6	EA	P
2	A247452	ANCHOR ARM SUPPORT	2	EA	M
2	A152040	GREASE ZERK, 1/8" MNPT, STR., 7/16	2	EA	P
2	A160284	BUSHING, BRONZE, 2" O.D. X 1-1/2"	2	EA	P
2	A192010	GASKET, SQUARE FLANGE, BOOM TURR	3	EA	P
2	A105172	SCREW, CAP, 1/2"-13 X 1.25", HH, G	14	EA	P
2	A238443	PIN, PIVOT, LIFT CYLINDER TO BOO	1	EA	P
2	A238444	PIN, PIVOT, BOOM LIFT CYLINDER C	1	EA	P
2	A238446-MFD	PIN, EXTENSION CYLINDER	2	EA	M
2	A380174-1	TURRET HOUSING WELDMENT	1	EA	M
3	A240933-2	TOP PLATE FOR 25' EXTENSION BO	1	EA	M
3	A380171-1	BASE PLATE FLANGE, 25' EXTENDED	1	EA	M
3	A380175-1	END PLATE - TURRET	2	EA	M
3	A239631-1	CYLINDER HOLDER	1	EA	M
4	A239631-1-R	BRACKET, CYLINDER MOUNT, R.H., 25	1	EA	M
4	A239631-1-L	BRACKET, CYLINDER MOUNT, L.H., 25	1	EA	M
3	A234019-29	1/2" PL. X 4-1/4" X 6" LG.	2	EA	M
3	A240935-1	ARM SUPPORT, ANGLE	4	EA	M
3	A240934	GUSSET-TURRET HOUSING SUPPORT	2	EA	M
3	A107098	NUT, LOCK, 1/2"-13, CRIMPED, G8, PL	12	EA	P
2	A241116	ANCHOR ARM ASSY, RH ***	1	EA	M
3	A238437	ARM, 8" BOOM ANCHOR-R.H.	1	EA	M
3	A240880	EYE PL.-ANCHOR PL.	1	EA	M
3	A240885	BOSS, BOOM EYE PL.	1	EA	M
3	A236105-108R	GUSSET, ANCHOR ARM, RIGHT	1	EA	M
3	A242115	BRACKET, HOSE SUPPORT, 8" BOOM	1	EA	M
2	A241117	ANCHOR ARM ASSY, LH ***	1	EA	M
3	A238438	ARM, 8" BOOM ANCHOR-L.H.	1	EA	M
3	A240880	EYE PL.-ANCHOR PL.	1	EA	M
3	A240885	BOSS, BOOM EYE PL.	1	EA	M
3	A236105-108L	GUSSET, ANCHOR ARM, LEFT	1	EA	M
3	A242116	BRACKET - HOSE SUPPORT, 8" BOO	1	EA	M
2	A245581	CONNECTOR WELDMENT, 8" FEMALE, B	1	EA	M
3	A245296	COUPLER, TRAVIS, 8" FEMALE, LESS	1	EA	P
3	A245584	LOWER SUPPORT, BOOM TUBE FEMALE	1	EA	M
2	A247453	GUSSET - ANCHOR ARM SUPPORT	2	EA	M
2	A105175	STUD 1/2"-13 X 1" LG.	2	EA	P
2	A241129	TOP PLATE ASSY, TURRET QUICK DI	1	EA	M
3	A241128	^TOP PLATE (TURRET W QUIK DISC	1	EA	M
3	A160198	LATCH PLATE (USED WITH 160199)	2	EA	P
2	A380171-2-MOD	TURRET MOD, SLEW DRIVE FLANGE B	1	EA	M
3	A380171-2	FLANGE, BASE PLATE, SLEW DRIVE T	1	EA	M
2	U4504-0042	BAR STK, FLT, 5/8" X 3", HRS, A36	.5000	FT	P
2	A238440-7	EXTENSION ARM ASSEMBLY, 27' BO	1	EA	M
3	A240882-7	EXTENSION ARM, LH, 27 FOOT BOO	1	EA	M
3	A240881-7	EXTENSION ARM, RH, 27 FOOT BOO	1	EA	M
3	A240818-1	PIVOT PLATE, EXTENDED BOOM	4	EA	M
3	A240815-MFD	8" BOOM UPPER PIVOT BUSHING	2	EA	M
3	A240816-MFD	8" BOOM LOWER PIVOT BUSHING	2	EA	M
3	A240817	8" BOOM BUSHING	2	EA	P
3	A240893	GUIDE, 8" BOOM HOSE	6	EA	M
3	A241124	BRACKET ASSY., CYLINDER	1	EA	M
3	A242034-1	SLEEVE ASSEMBLY - 25' EXTENSIO	2	EA	M
4	A241126-3	BUSHING, BRONZE, 25' EXTENSION	2	EA	M

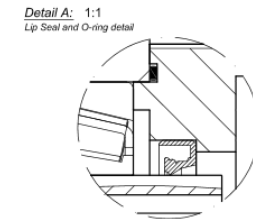
Part Number A304020-SLEW		BOOM ASSY, 8" X 27' EXTENDING, SLEW DRIVE			
Level	Part Number	Description	Quantity	U/M	SC
4	A240894-1-MFD	SLEEVE, EXTENSION ARM, BOOM	1	EA	M
3	A234158	BOOM SLEEVE REST	2	EA	M
3	A236392-10	KEY, 3/8" X 3/8" X 2-1/4"L	2	EA	M
3	A152040	GREASE ZERK, 1/8" MNPT, STR., 7/16	2	EA	P
3	A234504-23	ANGLE, 1" LONG, 8" BOOM	4	EA	M
3	A234479-12	ANGLE, 1" LONG, 8" BOOM	2	EA	M
3	A247451-7	COVER PLATE, EXTENDED BOOM GAN	2	EA	M
3	A100019-2	END CYLINDER SUPPORT, SI CYLIND	1	EA	M
2	A241115	PIN, PIVOT, BOOM ANCHOR ARM TO G	2	EA	P
3	A234178	BAR STK, RND, 1-1/2"DIA, CR, C1018	.3550	FT	P
2	A107098	NUT, LOCK, 1/2"-13, CRIMPED, G8, PL	4	EA	P
2	A107298	WASHER, LOCK, 1/2", PLATED, GR8	10	EA	P
2	A240950-1	EXTENSION TUBE WELDMENT, LH 25	1	EA	M
3	A240886	^BOOM SIDE ROLLER PLATE (LEFT)	1	EA	M
3	A240951-1	BOOM EXTENSION ARM - TUBE, 25 F	1	EA	P
3	A240954	CYL. BRACKET, 8" BOOM	1	EA	M
2	A241114-1	EXTENSION TUBE WELDMENT RH, 25	1	EA	M
3	A242118	^BOOM SIDE ROLLER PLATE (RIGHT	1	EA	M
3	A240951-1	BOOM EXTENSION ARM - TUBE, 25 F	1	EA	P
3	A240954	CYL. BRACKET, 8" BOOM	1	EA	M
2	A240890	BRACKET ASSY, SADDLE, EXT CYL TO	1	EA	M
3	A240891	BASE PL. CYL. BRK'T, 8" BOOM	1	EA	M
3	A240892	PIVOT PLATE, BOOM EXTENSION CYL	2	EA	M
3	A241274	HOSE GUIDE-BOOM	1	EA	M
2	A241283	CYLINDER ASSY, FLAPPER VALVE, 8	1	EA	M
3	A249777	CYLINDER, HYD/PNEU, 4" BORE, 10"	1	EA	P
3	A133640	BUSHING, REDUCER, HEX, 1/2"-1/4"	2	EA	P
3	A238449	FLANGE, MOUNTING, BOOM FLAPPER C	1	EA	P
3	A190907	O-RING, 8" BOOM & INNER DOOR	1	EA	P
3	A107296	WASHER, LOCK, 7/16", PLT, GR8	4	EA	P
3	A104880	SCREW, 7/16"-20 X 1", HEX, PLTD, G	4	EA	P
3	A107090	NUT, HEX, 7/16-20, PLT, GR8	4	EA	P
3	A107170	NUT, JAM, 1"-14, HH, GR8, PLATED	1	EA	P
3	A192011	SEAL PLATE, BOOM FLAPPER VALVE	1	EA	P
2	A241284-2	EXTENSION CYL ASSY FOR 25' BOO	1	EA	M
3	A380443	CYLINDER, BOOM EXTENSION, 89" ST	1	EA	P
3	A135060	ADAPTER, STR, #6MNPT X #6MJIC	2	EA	P
2	A240708-3-RJ	LIFT CYL ASSY, 23' & 25' EXT BOOM	1	EA	M
3	A133050	ADAPTER, ELBOW, 90D, #4MNPT X #6M	1	EA	P
3	A242184-2	CROSSHEAD CYLINDER WELDMENT	1	EA	P
3	A221820	GREASE ZERK, 1/8" MNPT, 90D, 7/16"	1	EA	P
3	A221826	GREASE ZERK, 1/4"-28	1	EA	P
3	A110275	VALVE, FLOW CONTROL, 1/4" ADJUST	1	EA	P
3	A110645-5-RJ	CYLINDER, BOOM LIFT	1	EA	P
3	A107363	SCREW, SET, 3/8"-24 X 3/8", CONE	1	EA	P
3	A135301	ADAPTER, ELBOW, 90D, STREET, #4MNP	1	EA	P
3	A132050	ADAPTER, STR, 3/8" MNPT X 1/4" MN	1	EA	P
3	A135320	ADAPTER, ELBOW, 90D, 3/8" MNPT X 3	1	EA	P
2	A191617	SEAL, TURRET BEARING TO THIMBLE	2	EA	P
2	A380271-1	GASKET, SLEW DRIVE BEARING TO T	1	EA	P
2	A192014	GASKET, THIMBLE TO TURRET HOUSI	1	EA	P
2	A304675	SLEW DRIVE BOOM BEARING, OPEN H	1	EA	P
2	A104526	SCREW, SOCKET, 3/8-24 X 1", HEX, P	8	EA	P
2	A304679	STUD, 3/4-10x6", DOUBLE END THRE	32	EA	P
2	A107293	WASHER, LOCK, 3/8" STD INT. TOOT	8	EA	P
2	A241118	THIMBLE, 8" BOOM TURRET BEARING	1	EA	P

Part Number A304020-SLEW		BOOM ASSY, 8" X 27' EXTENDING, SLEW DRIVE			
Level	Part Number	Description	Quantity	U/M	SC
3	A241119	THIMBLE WELDMENT	1	EA	M
2	A221820	GREASE ZERK, 1/8" MNPT, 90D, 7/16"	1	EA	P
2	A107098	NUT, LOCK, 1/2" -13, CRIMPED, G8, PL	2	EA	P
2	A380266	SCREW, SOCKET HD, 5/8" NC X 2-1/4	24	EA	P
2	A107302	WASHER, LOCK, 5/8", PLT, GR8	24	EA	P
2	A105175	STUD 1/2" -13 X 1" LG.	2	EA	P
2	A160199-1	CLAMP, DESTACO 341-R, TOGGLE LOC	2	EA	P
1	A105517	SCREW, CAP, 5/8-11 X 11", HEX, PLT	5	EA	P
1	A104829	SCREW, CAP, 7/16-14 X 1-3/4", HH,	12	EA	P
1	A107024	LOCKNUT, CRIMPED, 5/8" -11, PLATED	5	EA	P
1	A107296	WASHER, LOCK, 7/16", PLT, GR8	12	EA	P
1	A241395-1	STRAP, BOOM REST, 31"L, FOR EXTEN	1	EA	M
1	A234183-24	AXLE, BOOM, 1/2" SCH40 PIPE X 9-	5	EA	M
1	A241287	MOTOR ASSY, HYDRAULIC, BOOM	1	EA	M
2	A110186	MOTOR, HYDRAULIC, 1" CW ROT, 10CI/	1	EA	P
2	A135910	ADAPTER, STR, #10MSAE X #8MJIC	2	EA	P
1	A105176	SCREW, CAP, 1/2" -13 X 1-1/2", HH,	6	EA	P
1	A107226	WASHER, FLAT, 1/2" USS, PLATED, GR	12	EA	P
1	A238409	ROLLER, ALUMINUM, BOOM	5	EA	P
1	A107298	WASHER, LOCK, 1/2", PLATED, GR8	6	EA	P
1	A380270	GASKET, HC TURRET BEARING TO TA	1	EA	P
1	A380265	SCREW, SOC HD, 3/4-10 X 2-1/4", G	24	EA	P
1	A107304	WASHER, LOCK, 3/4", PLATED, GR8	24	EA	P
1	A191804	SEAL, TRIPLE LIP, 8" BOOM HOSE C	1	EA	P

GrowthPower

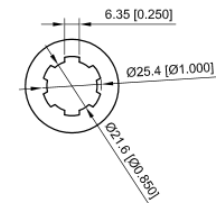
BILL OF MATERIAL INQUIRY

THU, APR 28, 2016, 10:26 AM



Detail A: 1:1
Lip Seal and O-ring detail

Shaft Detail: 1:2





TELESCOPIC BOOMS



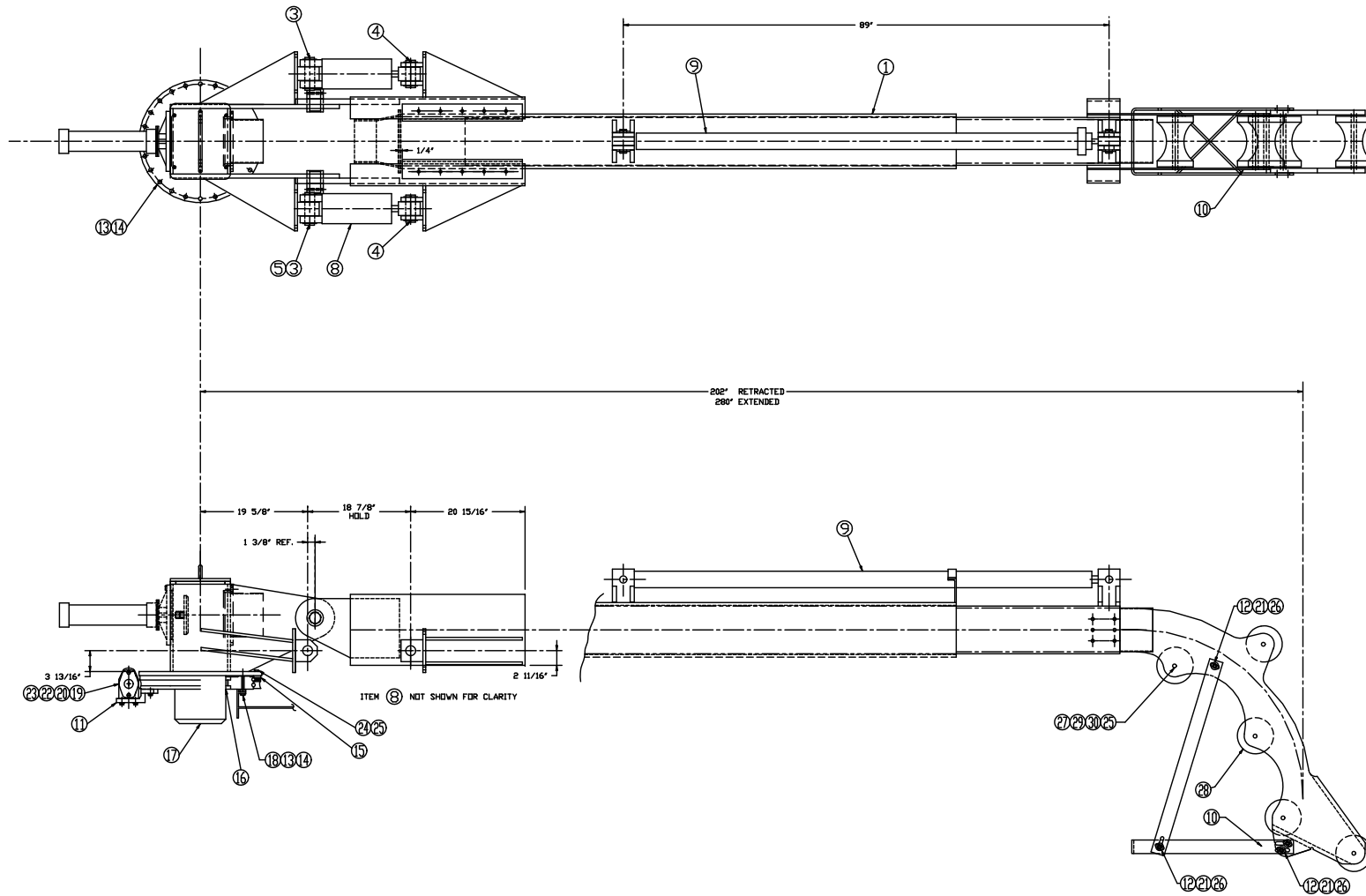
The drawings on the following pages are for these booms.

Description	Boom Assembly	Boom Sub-Assembly
23' Reach	A380192	A380185
25' Reach	A382260	A382259
25' Rch w/Slew Brg.	121004826	121004825

OBSOLETE TELESCOPIC BOOMS

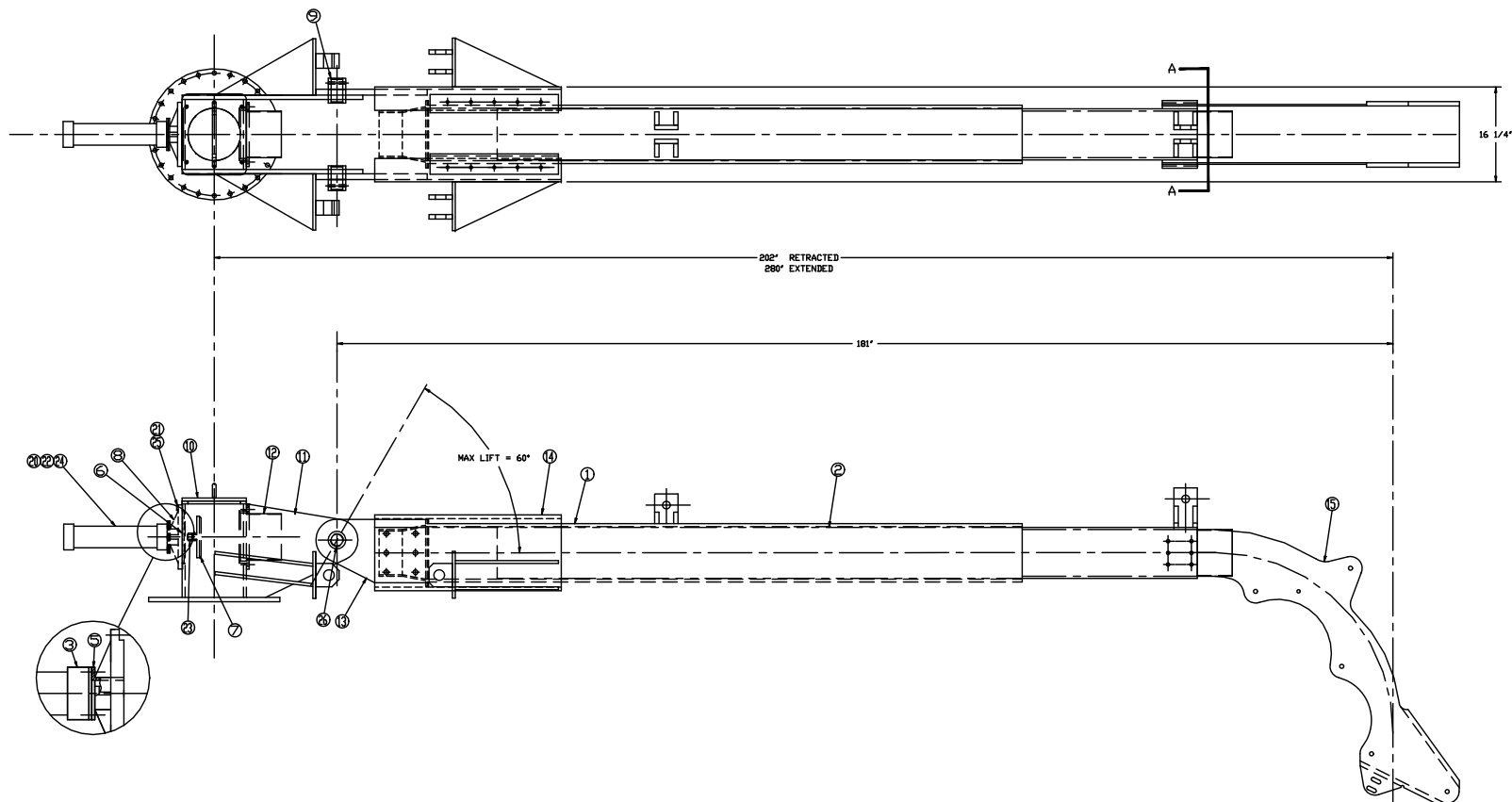
Parts information for the following older pre-Hi-Vac telescopic booms are not included in this manual. The majority of the parts for these booms are no longer available.

A247341 “Telestat” Boom
A243000 “Mark IV” Boom
A240767 “Omaha” Boom



REV	REV	DESCRIPTION	DATE
1	380185	1	BOOM SUB ASSEMBLY
2			
3	380237	2	LIFT CYLINDER PIN
4	380237-1	2	LIFT CYLINDER PIN
5	102820	8	COTTER PIN
6	380212	2	LIFT CYLINDER
7	380213	1	EXTENSION CYLINDER
10	380282	1	STRAP - BOOM REST
11	284282	1	WORM DRIVEN BEARING ASSY
12	105171	8	1/2"-13 x 1-1/4" LG BHCS
13	380285	24	3/4" ALLEN HEAD CAP SCREWS
14	107304	24	PLATED LOCKWASHER
15	380271	1	GASKET - BEARING
16	151617	2	SEAL
17	241118	1	THIMBLE
18	380270	1	GASKET - TANK
19	241587	1	HYDRAULIC MOTOR
20	240257	1	WORM COVER ASSY
21	107228	8	1/2" PLATED PLAT WASHER
22	103886	2	1/4"-20 x 1/2" LG HEX HEAD CAP SCREW
23	107280	2	1/4" WASHER
24	380286	24	5/8" ALLEN HEAD CAP SCREW
25	107302	28	5/8" LOCK WASHER
26	107020	8	1/2"-13 PLATED NYLOCK NUT
27	234183-22	5	PIPE - 1/2" SCH 40 x 9 3/4" LG
28	238408	5	ROLLER - 8" BOOM HOSE
29	108877	5	NUT - 5/8"-11 x 11-1/2" LG
30	107504	5	NUT - 5/8"-11 NYLOCK HEX

(1) DEL ITEM 2, ADDED ITEM 3 2/13/12 EP (2) CHANGED ITEM #10 8/31/04 SMW (3) DELETED ITEM #5 12/11/03 RAE (4) IT. 27 WAS 10 1/8" LG 05/30/03 RAE (5) DELETED 105617 AND ADDED 105627 11/21/02 DCC (6) DELETED 241285 AND ADDED 380282 3/14/01 DWR (7) RETRACTED LENGTH IS NOW 202" 1/10/01 DWR (8) REMOVED ITEMS 6 & 7 9/5/00 NSE				THIS DOCUMENT IS THE PROPERTY OF 18-HS, CORP. AND IS FURNISHED FOR THE AUTHORIZED USE ONLY. NO OTHER REPRODUCTION OR DISSEMINATION OF THIS DOCUMENT FOR ANY OTHER PURPOSE IS AUTHORIZED BY 18-HS, CORP.			
UNLESS OTHERWISE SPECIFIED: 1/8" = 1/8" UNLESS NOTED DIMENSIONS ARE IN INCHES DIMENSIONS ARE IN INCHES DIMENSIONS ARE IN INCHES				DO NOT SCALE AQUATECH A PRODUCT OF 18-HS CORPORATION 117 MOORE ROAD, WAREHO, OHIO 43080 USA PHONE: +740.374.9171 FAX: +740.374.5447			
REV. DESCRIPTION DATE BY 1. UNLESS OTHERWISE SPECIFIED 2. UNLESS OTHERWISE SPECIFIED 3. UNLESS OTHERWISE SPECIFIED 4. UNLESS OTHERWISE SPECIFIED 5. UNLESS OTHERWISE SPECIFIED 6. UNLESS OTHERWISE SPECIFIED 7. UNLESS OTHERWISE SPECIFIED 8. UNLESS OTHERWISE SPECIFIED 9. UNLESS OTHERWISE SPECIFIED 10. UNLESS OTHERWISE SPECIFIED 11. UNLESS OTHERWISE SPECIFIED 12. UNLESS OTHERWISE SPECIFIED 13. UNLESS OTHERWISE SPECIFIED 14. UNLESS OTHERWISE SPECIFIED 15. UNLESS OTHERWISE SPECIFIED 16. UNLESS OTHERWISE SPECIFIED 17. UNLESS OTHERWISE SPECIFIED 18. UNLESS OTHERWISE SPECIFIED 19. UNLESS OTHERWISE SPECIFIED 20. UNLESS OTHERWISE SPECIFIED 21. UNLESS OTHERWISE SPECIFIED 22. UNLESS OTHERWISE SPECIFIED 23. UNLESS OTHERWISE SPECIFIED 24. UNLESS OTHERWISE SPECIFIED 25. UNLESS OTHERWISE SPECIFIED 26. UNLESS OTHERWISE SPECIFIED 27. UNLESS OTHERWISE SPECIFIED 28. UNLESS OTHERWISE SPECIFIED 29. UNLESS OTHERWISE SPECIFIED 30. UNLESS OTHERWISE SPECIFIED				SCALE: 1" = 10" DWG SIZE: D DATE: 06/12/00 DRAWN BY: DWR CHECKED BY: DWR PRODUCT CODE: TELESCOPING BOOM MATERIAL: SEE BILL OF MATERIAL PART NUMBER: 380192 REV: H			

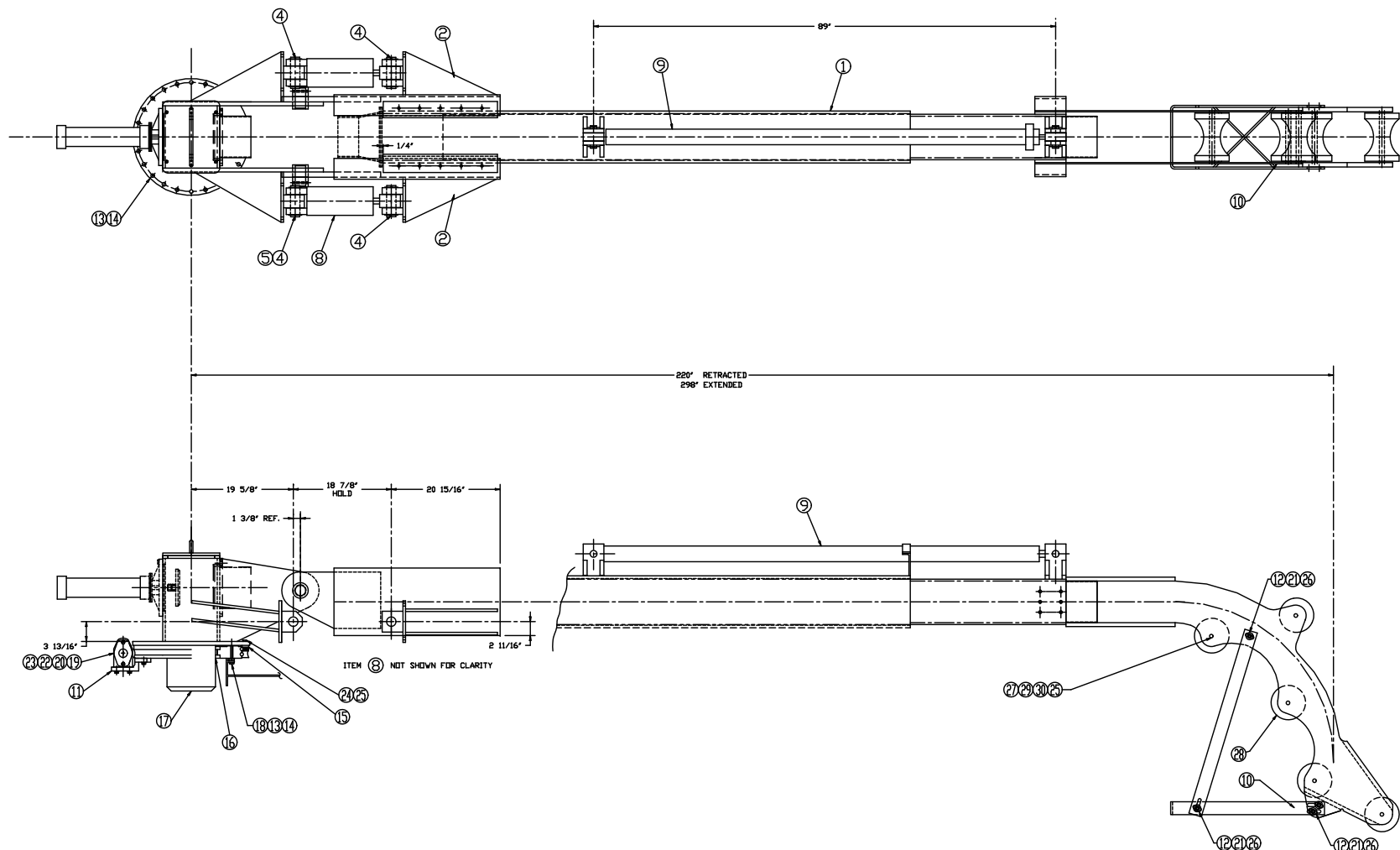


REV	REV	DESCRIPTION
1	380185	BOOM SUB ASSEMBLY
2	380185	STATIONARY BOOM TUBE ASSEMBLY
3	380185	TELESCOPING BOOM TUBE ASSEMBLY
4	110884	PNEUMATIC CYLINDER
5	190807	O RING
6	192010	8" BOOM HOSE FLANGE GASKET
7	192011	8" VALVE SEAT
8	238449	ADAPTER FLANGE
9	380189	CYLINDER PIN ASSEMBLY
10	380173	TOP PLATE ASSEMBLY
11	380174	TURRET HOUSING WELDMENT
12	380177	BOOM TUBE LOCK COUPLER ASSEMBLY
13	380178	BOOM SIDE PLATE ABSYONE MIRROR IMAGE
14	380204	BOOM SIDE PIN
15	380180	SIDE PLATE
17	107098	1/2"-13 HEX HEAD NUT
19		
20	104880	SCREW - 7/16"-20 HHCS GR 5
21	105174	SCREW - 1/2"-13 x 1" LG HHCS GR 5
22	107090	NUT - 7/16"-20
23	107170	NUT - 1"-14 JHM
24	107222	WASHER - 7/16" LOCK
25	107298	WASHER - 1/2" PLATED LOCK
26	176002	2" ID x 3/4" LG BRUSHING
27	380208	WELDING SEAL FLANGE
28	107210	1/4" PLAT WASHER
29	103884	1/4"-20 x 2" LRG HK HD CAP SCREW
30	107002	1/4"-20 HEX HD NUT

SECTION A

NOTE: ITEMS 7, 8, 9, 10 NOT SHOWN FOR CLARITY

REMOVED ITEM 18 FROM BOM 09/15/14 MLH 380192 ITEM #15 W/IN HOLE FOR BRACKET 8/31/04 SMW - ITEM #14 WAS 380179 04/02/04 RAE - REMOVED TO SHOW SHOP UPDATES 1/31/01 DWR - RETRACTED LENGTH WAS 178" 1/10/01 DWR -				THIS DOCUMENT IS THE PROPERTY OF 10-INC. CORP. AND IS LOANED TO THE USER. IT IS TO BE RETURNED TO THE USER. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. WITHOUT PERMISSION IN WRITING BY 10-INC. CORP.			
UNLESS OTHERWISE SPECIFIED 1/8" UNLESS NOTED ALL DIMENSIONS ARE IN INCHES ALL DIMENSIONS ARE TO CENTER UNLESS NOTED ALL DIMENSIONS ARE TO CENTER UNLESS NOTED				THIS DOCUMENT IS THE PROPERTY OF 10-INC. CORP. AND IS LOANED TO THE USER. IT IS TO BE RETURNED TO THE USER. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. WITHOUT PERMISSION IN WRITING BY 10-INC. CORP.			
REV. DESCRIPTION DATE BY				REV. DESCRIPTION DATE BY			
10-INC. CORP. 177 MOORE ROAD, WAREHOUSING PHONE: 4740.374.9171 FAX: 4740.374.5447				10-INC. CORP. 177 MOORE ROAD, WAREHOUSING PHONE: 4740.374.9171 FAX: 4740.374.5447			
SCALE: 1" = 10' DWG SIZE: D DATE: 06/12/00				SCALE: 1" = 10' DWG SIZE: D DATE: 06/12/00			
BOOM SUB ASSEMBLY SEE B.O.M.				BOOM SUB ASSEMBLY SEE B.O.M.			
PART NUMBER: 380185				PART NUMBER: 380185			



REV	REV	DESCRIPTION
1	382260	BOOM ASSEMBLY
1	382260	1 BOOM SUB ASSEMBLY
2	380234	2 CHANNEL CYLINDER MOUNT
3	-	-
4	380237	4 LIFT CYLINDER PIN
5	102820	5 CUTTER PIN
6	380212	2 LIFT CYLINDER
7	380213	1 EXTENSION CYLINDER
8	380262	1 STRAP - BOOM REST
9	2410804C	1 WORM DRIVEN BEARING ASSEMBLY
10	105171	8 1/2" - 13 x 1-1/4" LG. BUSH
11	380285	24 3/4" ALLEN HEAD CAP SCREWS
12	107304	24 PLATED LOCKWASHER
13	380271	1 GASKET - BEARING
14	101617	2 SEAL
15	241118	1 THIMBLE
16	380270	1 GASKET - TANK
17	241587	1 HYDRAULIC MOTOR
18	240257	1 WORM COVER ASSEMBLY
19	107228	8 1/2" PLATED PLAT WASHER
20	103886	2 1/4" - 20 x 1/2" LG. HEX HEAD CAP SCREW
21	107280	2 1/4" WASHER
22	380266	24 5/8" ALLEN HEAD CAP SCREW
23	107302	28 5/8" LOCK WASHER
24	107020	8 1/2" - 13 PLATED NYLOCK NUT
25	234183-22	5 PIPE - 1/2" SCH 40 x 9 3/4" LG.
26	238408	5 ROLLER - 8" BOOM HOSE
27	105877	5 NUT - 5/8" - 11 x 11-1/2" LG.
28	107024	5 NUT - 5/8" - 11 NYLOCK HEX

DO NOT SCALE

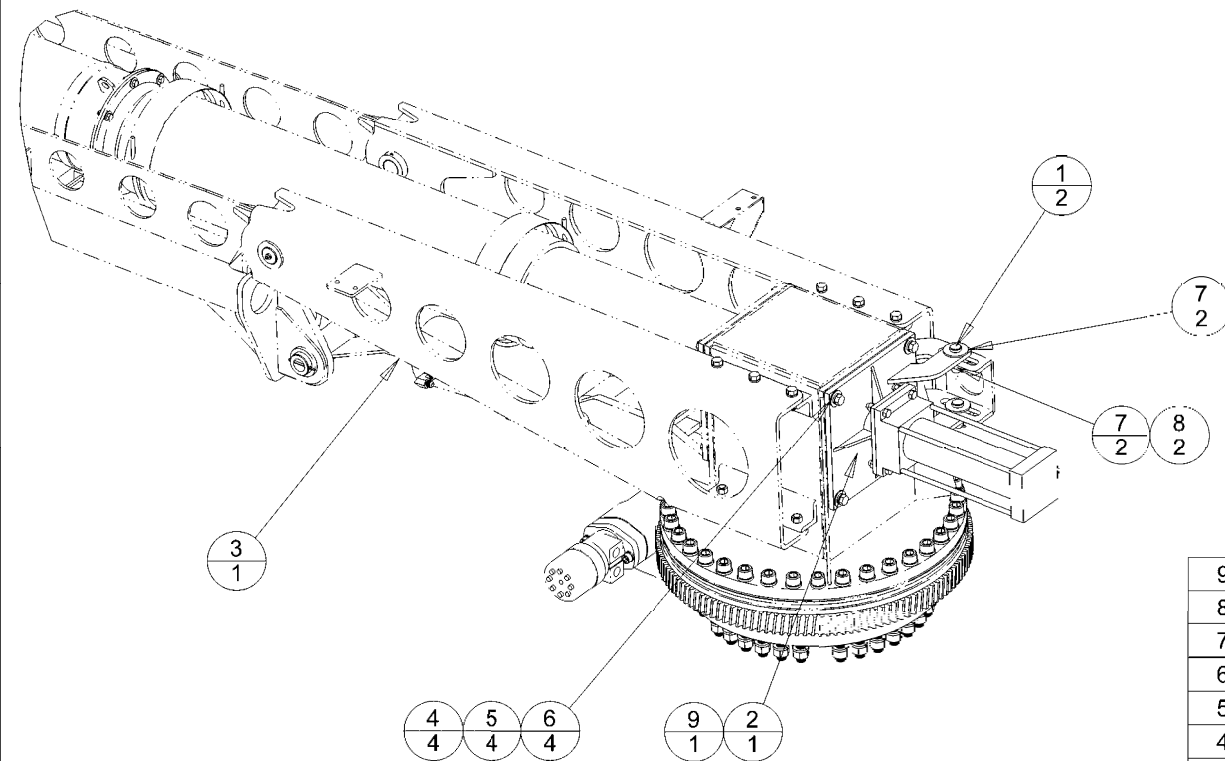
NEXT ASSY. 280000-25105			
A PRODUCT OF H-HAC CORPORATION 117 INDUSTRY ROAD, WINNETKA, CALIF. 94090 USA PHONE: +740.374.9171 FAX: +740.374.5447		SCALE: D DATE: 04/10/08 DRAWN BY: LAG CHECKED BY:	
REV: 1 DESCRIPTION: BOOM ASSEMBLY PART NUMBER: 382260		MATERIAL: SEE BILL OF MATERIAL REV:	

UNLESS OTHERWISE SPECIFIED: THIS DOCUMENT IS THE PROPERTY OF H-HAC CORP. AND IS FURNISHED FOR THE AUTHORIZED USE ONLY. NO OTHER REPRODUCTION OR DISSEMINATION OF THIS DOCUMENT FOR ANY OTHER PURPOSE IS AUTHORIZED BY H-HAC CORP.

CONFIDENTIAL-NOT FOR PUBLICATION

THIS DRAWING, INCLUDING SPECIFICATIONS OR OTHER DATA, IS THE PROPERTY OF HI-VAC CORPORATION. THE USE THERE OF IS CONDITIONED UPON THE USER'S AGREEMENT NOT TO DISCLOSE THE DRAWING TO OTHERS, OR TO REPRODUCE THE DRAWING IN WHOLE OR IN PART, OR TO USE THE DRAWING TO REPRODUCE THE INFORMATION THEREIN, OR FOR ANY OTHER PURPOSE, WITHOUT WRITTEN PERMISSION FROM HI-VAC CORPORATION.

REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	PRODUCTION RELEASE	10-20-17	RAC



9	1	A192010	GASKET, SQUARE FLANGE, BOOM TURRET HOUSING
8	2	A107268	COTTER PIN - 1/8" X 1 1/2"
7	4	7950220102	WASHER, FLAT, 3/4
6	4	7950180102	WASHER, FLAT, 1/2
5	4	7950180051	WASHER, LOCK, HELICAL SPRING, 1/2
4	4	7118181250	SCREW, CAP, HEX HEAD, 1/2-13 x 1.5"
3	1	121004825	BOOM,25',8" TELESCOPIC TUBE
2	1	121004592	CYLINDER ASSY,FLAPPER
1	2	08-0386	CLEVIS PIN, STEEL - 3/4" DIAME

ITEM	QTY	PART NO.	DESCRIPTION
------	-----	----------	-------------

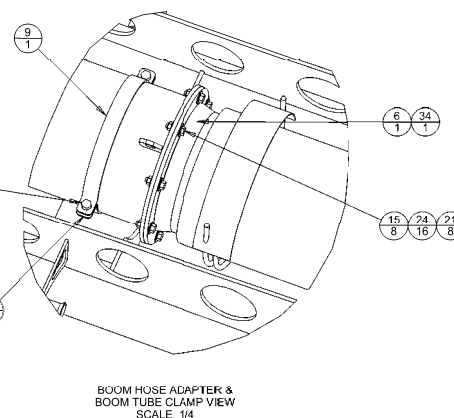
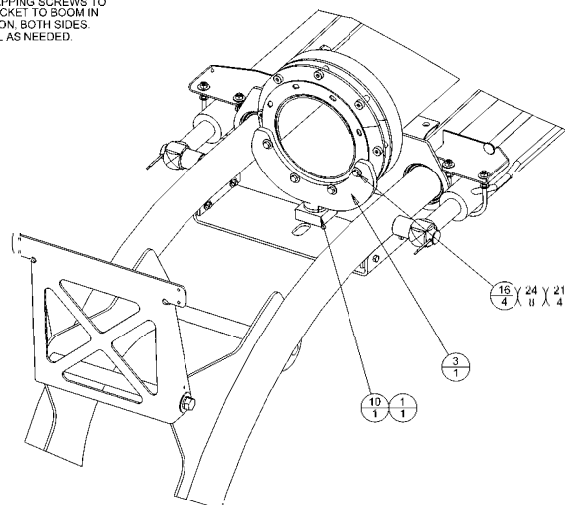
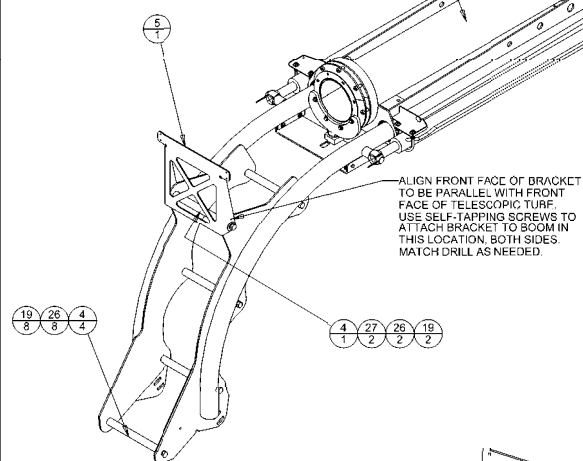
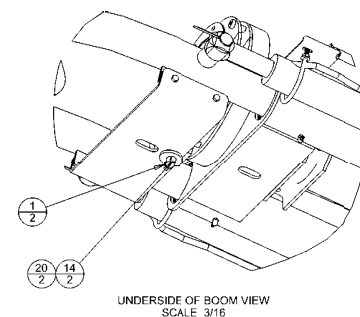
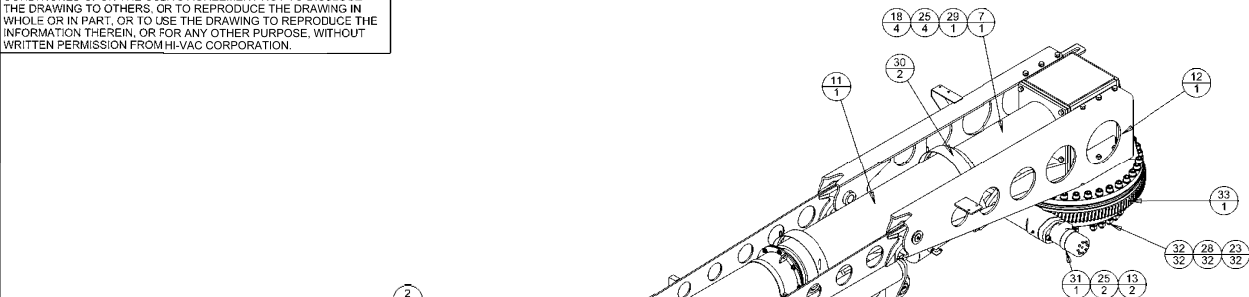
BILL OF MATERIALS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.		 CORPORATION 117 INDUSTRY ROAD MARIETTA, OHIO 45750 USA 800-752-2400		TITLE BOOM,25',8" TUBE WITH FLAPPER							
TOLERANCES ARE: DECIMALS ANGLES XX ± .01 ± 2° XXX ± .005 FRACTIONAL ± .03											
DO NOT SCALE DRAWING		APPROVALS		DATE		SIZE		DWG NO.		REV.	
		DRAWN RAC		10-20-17		B		121004826		A	
		CHECKED -		-		SCALE 3/32		CALC. WT 2231.3 lbs		ACT. WT 25 SHEET	
		ENGR -		-							
										1 OF 1	

CONFIDENTIAL-NOT FOR PUBLICATION

THIS DRAWING, INCLUDING SPECIFICATIONS OR OTHER DATA, IS THE PROPERTY OF HI-VAC CORPORATION. THE USE THERE OF IS CONDITIONED UPON THE USER'S AGREEMENT NOT TO DISCLOSE THE DRAWING TO OTHERS, OR TO REPRODUCE THE DRAWING IN WHOLE OR IN PART, OR TO USE THE DRAWING TO REPRODUCE THE INFORMATION THEREIN, OR FOR ANY OTHER PURPOSE, WITHOUT WRITTEN PERMISSION FROM HI-VAC CORPORATION.

REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	PRODUCTION RELEASE	12-20-17	RAC



ITEM	QTY	PART NO.	DESCRIPTION
34	1	A381676	GASKET, 8" FLAT FLANGE, RUBBER, U
33	1	A380270-1	GASKET, SLEW DRIVE BEARING TO TANK FLANGE
32	32	A304679	STUD, 3/4-10x6", TBE
31	1	A304676	HYDRAULIC MOTOR-SLEW MASTER BEARING
30	2	A220698	CLAMP, HOSE-8" POWER LOCK
29	1	A192010	GASKET, SQUARE FLANGE, BOOM TURRET HOUSING
28	32	7950220051	WASHER, LOCK, HELICAL SPRING, 3/4
27	2	7950200102	WASHER, FLAT, 5/8
26	10	7950200051	WASHER, LOCK, HELICAL SPRING, 5/8
25	6	7950180051	WASHER, LOCK, HELICAL SPRING, 1/2
24	24	7950150102	WASHER, FLAT, 5/16
23	32	7660220013	NUT, HEX, 3/4"-10
22	2	7660162013	NUT, HEX, NYLON INSERT LOCK, 3/8-16
21	12	7660151013	NUT, HEX, TOP LOCK, 5/16"-18
20	2	7660142013	NUT, HEX, NYLON INSERT LOCK, 1/4-20
19	10	7118201053	SCREW, CAP, HEX HEAD, 5/8-11 x 1-1/4"
18	4	7118181053	SCREW, CAP, HEX HEAD, 12-13 x 1-1/4"
17	2	7118160853	SCREW, CAP, HEX HEAD, 3/8-16 x 1.0"
16	4	7118151253	SCREW, CAP, HEX HEAD, 5/16-18 x 1-1/2"
15	8	7118150853	SCREW, CAP, HEX HEAD, 5/16-18 x 1.0"
14	2	7118141053	SCREW, CAP, HEX HEAD, 14-20 x 1.25"
13	2	7110181211	SCREW SOCKET, HEX 1/2"-13X1-1/2", G, GR8, RD
12	1	121004824	BOOM, 25' SLEW MASTER
11	1	121004618	HOSE, BOOM TUBE TO TURRET
10	2	121004617	RUBBER SPACER
9	1	121004612	CLAMP PLATE
8	1	121004606	CLAMP PLATE, PINNED
7	1	121004604	ADAPTER, TURRET TO 8" BOOM HOSE
6	1	121004599	ADAPTER, 8" HOSE TO BOOM
5	1	121004596	BRACKET, BOOM CLEARANCE LIGHTS
4	5	121004589	SPACER BAR, 5/8-11 UNC THD
3	1	121004588	MOUNT, BOOM SLIDING TUBE
2	1	121004556	BOOM TUBE, 8" TELESCOPIC
1	3	121003851	PLATE, TUBE PIN SPACER

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
DECIMALS .015
ANGLES .5°
FRACTIONAL 1/16
DO NOT SCALE DRAWING

APPROVALS	DATE
RAC	10-20-17

BILL OF MATERIALS	
117 INDUSTRY ROAD MARIETTA, OHIO 45750 USA 800-752-2400	117 INDUSTRY ROAD MARIETTA, OHIO 45750 USA 800-752-2400

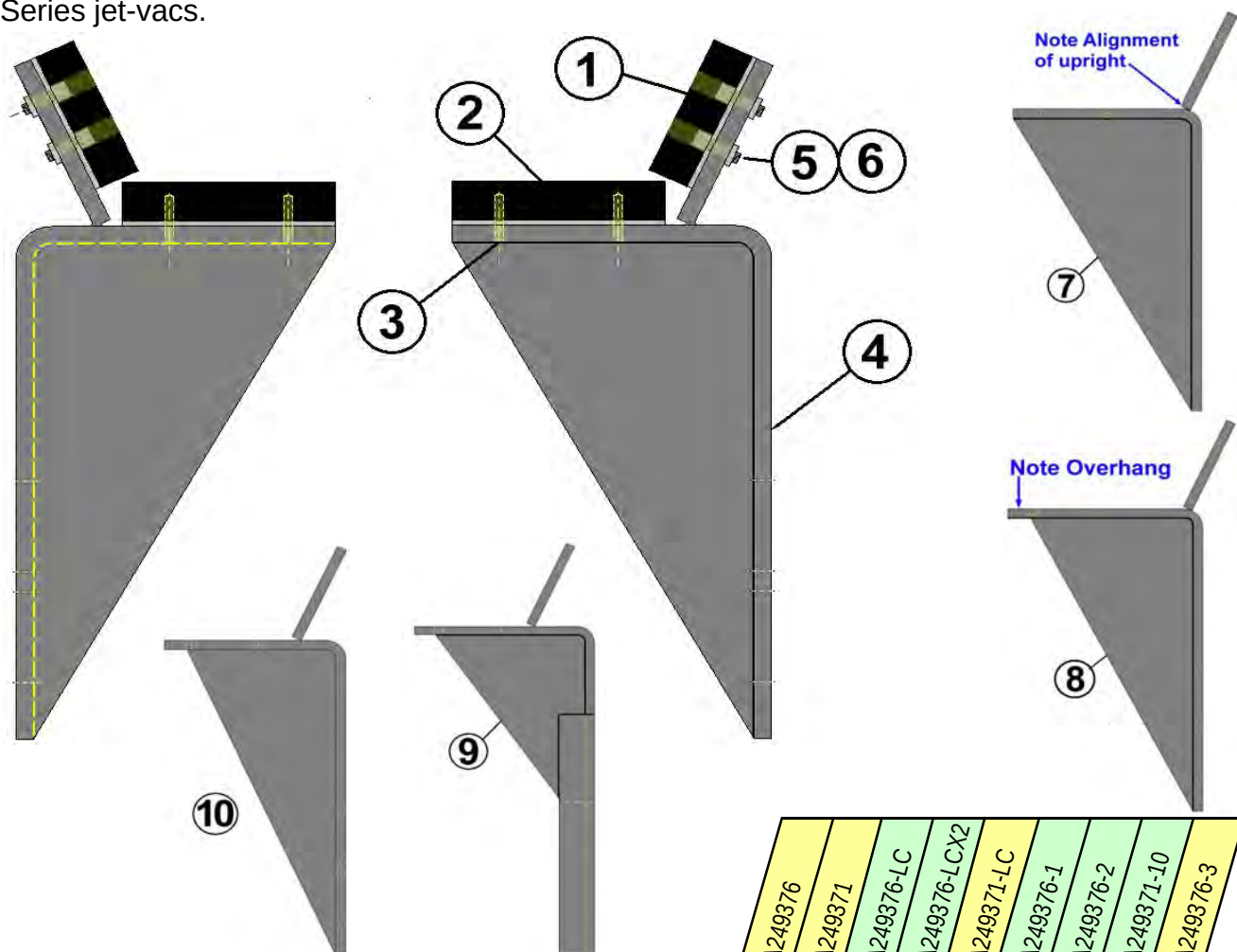
BOOM, 25', 8" TELESCOPIC
TUBE

BOOM HOSE CONNECTION VIEW
SCALE 3/16

REV	DESCRIPTION	DATE	BY
D	121004825	12-20-17	A

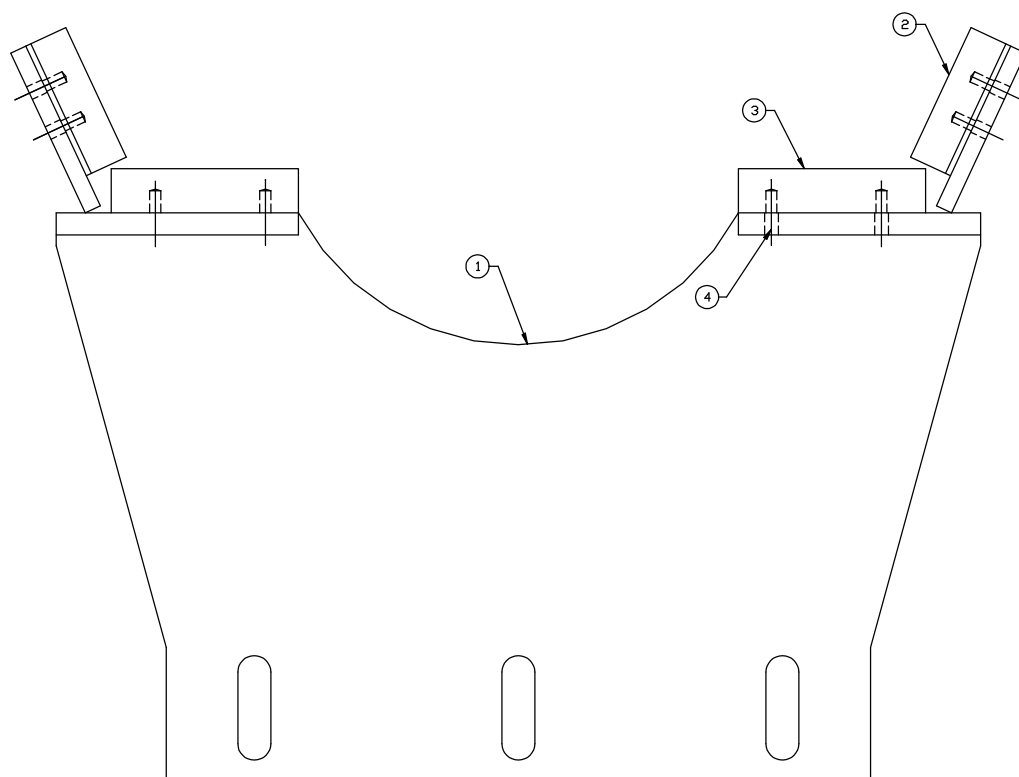
BOOM REST

For your convenience, here is a parts listing for the boom rest used on most late model B-Series jet-vacs.



ITEM	PART NO.	DESCRIPTION	A249376		A249371		A249376-LC		A249376-LCX2		A249371-LC		A249376-1		A249376-2		A249371-10		A249376-3	
			1/2	SET	1/2	SET	SET	1/2	1/2	SET	SET	1/2	1/2	SET	SET	1/2	SET	SET	1/2	SET
4	A249371-3	BOOM REST WELDMENT, B-SERIES	1	2			1													
7	A249371-3-LC	BOOM REST WELDMENT, B-SERIES W/LC BOOM			1	2	1													
8	A249371-7	BOOM REST WELDMENT, B-6,8" BOOM							1						1					
10	A249371-8	BOOM REST WELDMENT, B-6,8" BOOM											1		1					
9	A249371-13	BOOM REST WELDMENT PAIR, LH & RH, SPECIAL																	1	
2	A249371-4	PAD, BOOM REST, HORIZONTAL, B-SERIES	1	2			1	1				1			1		2			
1	A249371-5	PAD, BOOM REST, GUIDE, B-SERIES	1	2	1	2	2	1	1			1			2		2			
1	A249371-6	PAD, BOOM REST, GUIDE, B-SERIES W/LC BOOM			1	2	1					1			1					
3	U4606-0020	RIVET, RD ALUM HD, .25" DI X .501	2	4	2	4	4	3	3			6			4					
5	7110140810	SCREW, CAP, 1/4"-20 X 1", SKT HD, ALLOY, BO	2	4	2	4	4	2	2			4			4					
6	7660141010	NUT, LOCK, 1/4"-20, TOP CRIMPED, GRC, ZINC PL	2	4	2	4	4	2	2			4			4					

PART NO.: 382971		DESCRIPTION: ASSMEMBLY, BOOM REST	
ITEM	PART NO.	REQ'D.	DESCRIPTION
1	382970	1	WELDMENT, BOOM REST, SPECIAL
2	249371-5	2	PAD-GUIDE-BOOM REST
3	249371-4	2	PAD-BOOM REST
4	U4606-0020	8	RIVET, PULL, .25" DIA



DO NOT SCALE

NEXT ASSY.		 A PRODUCT OF HI-VAC CORPORATION 117 INDUSTRY ROAD MARIETTA, OHIO 45750 USA PHONE +740.374.9171 FAX +740.374.5447	
—			
—			
—			
SCALE: NONE	WEIGHTS:	DRAWN BY: SMW	PRODUCT CODE:
DWG SIZE: B	DATE: 12/16/08	CHECKED BY:	B-15/SPL
DESCRIPTION:		ASSEMBLY, BOOM REST, B-15/SPECIAL	
MATERIAL: SEE B.O.M.		PART NUMBER:	REV:
RAW MAT'L: —		382971	—

○
(A)

REV.	DESCRIPTION	DATE	BY

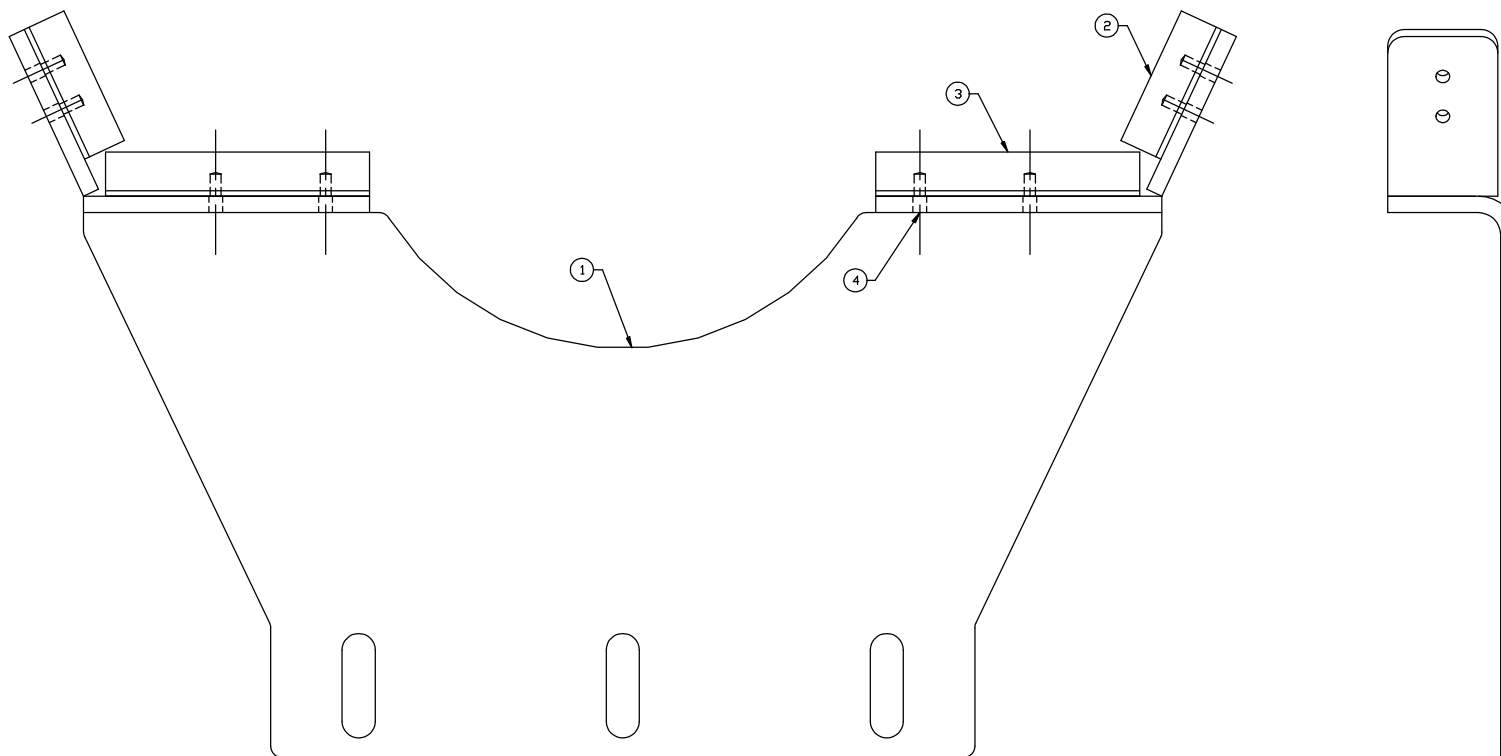
UNLESS OTHERWISE SPECIFIED

✓ ±125 MICRONS
BREAK ALL EDGES
FABRICATION TOL. ± 1/16"
ANGULAR ± 1°

MACHINING TOLERANCES
FRACTIONAL ± .015
DECIMAL ± .010
XXX ± .005

THIS DOCUMENT IS THE PROPERTY OF HI-VAC, CORP.
AND IS FURNISHED FOR AUTHORIZED USE ONLY. NEITHER
THIS DOCUMENT NOR THE INFORMATION DISCLOSED HEREIN
SHALL BE COPIED, REPRODUCED, TRANSFERRED OR USED
FOR MANUFACTURING OR FOR ANY OTHER PURPOSE
EXCEPT AS AUTHORIZED IN WRITING BY HI-VAC, CORP.

PART NO.: 382971-1		DESCRIPTION: ASSMEMBLY, BOOM REST	
ITEM	PART NO.	REQ'D.	DESCRIPTION
1	382970-1	1	WELDMENT, BOOM REST, SPECIAL
2	249371-5	2	PAD-GUIDE-BOOM REST
3	249371-6	2	PAD-BOOM REST
4	U4606-0020	8	RIVET, PULL, .25" DIA



DO NOT SCALE

NEXT ASSY.		AQUATECH A PRODUCT OF HI-VAC CORPORATION 117 INDUSTRY ROAD MARIETTA, OHIO 45750 USA PHONE +740.374.9171 FAX +740.374.5447	
—			
—			
—			
SCALE: NONE	WEIGHTS:	DRAWN BY: RP	PRODUCT CODE: B-SERIES
DWG SIZE: B	DATE: 6/4/10	CHECKED BY:	
DESCRIPTION: BOOM REST ASSY FOR DUAL EXTENSION CYLINDER BOOM		MATERIAL: SEE B.O.M.	PART NUMBER: 382971-1
RAW MAT'L: —		REV: —	

REV.	DESCRIPTION	DATE	BY
①	MOVE 2,3,4 BY 11/16"	12/19/2008	AR

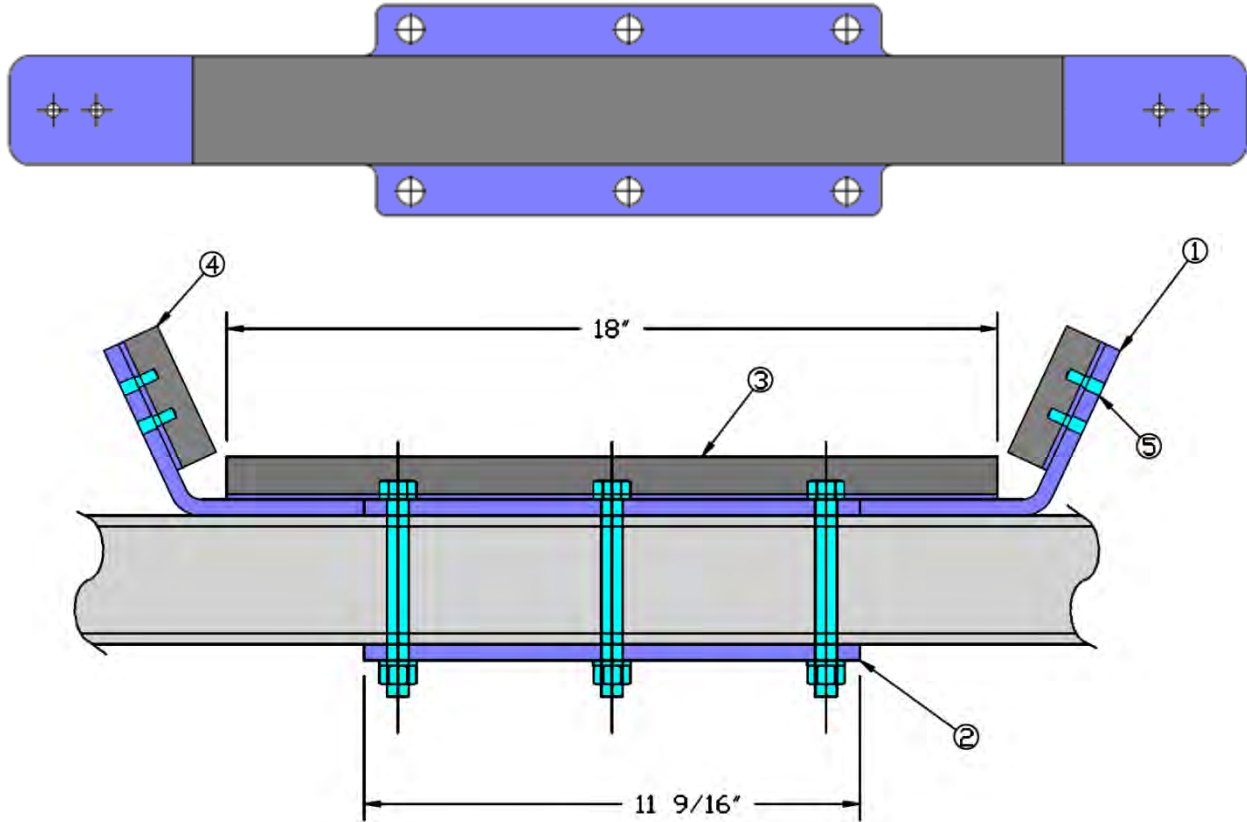
UNLESS OTHERWISE SPECIFIED
 ✓ ±.125 MICRONS
 BREAK ALL EDGES
 FABRICATION TOL. ± 1/16"
 ANGULAR ± 1°

MACHINING TOLERANCES
 FRACTIONAL ± .015
 DECIMAL ± .010
 ANG. ± .005

THIS DOCUMENT IS THE PROPERTY OF HI-VAC, CORP.
 AND IS FURNISHED FOR AUTHORIZED USE ONLY. NEITHER
 THIS DOCUMENT NOR THE INFORMATION DISCLOSED HEREIN
 SHALL BE COPIED, REPRODUCED, TRANSFERRED OR USED
 FOR MANUFACTURING OR FOR ANY OTHER PURPOSE
 EXCEPT AS AUTHORIZED IN WRITING BY HI-VAC, CORP.

A247543-3

BAR MOUNTED BOOM REST

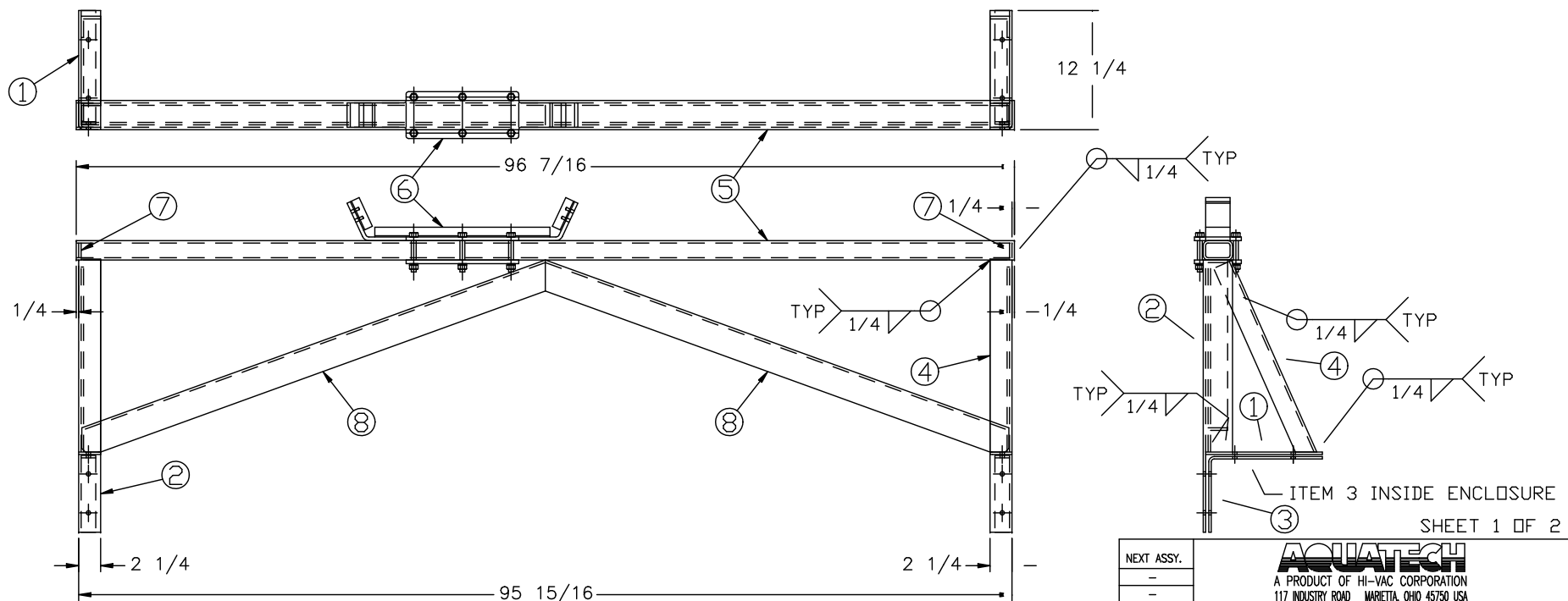


ITEM	PART NO.	DESCRIPTION	QTY
1	Not Assigned *	3/8" A36 HR Plate X 28-3/8"	1
2	Not Assigned *	3/8" A36 HR Plate X 11-9/16"	1
3	Not Assigned *	Perma Slat, 1" x 2.5" x 18"L **	1
4	A249371-5	Guide Pad	2
5	U4606-0020	Rivet, Alum., .25" x .501"	4

* Must order A247543-3 Assembly

** NOTE: One A240789 Perma Slat strip is 30"L

PART NO.:		DESCRIPTION:	
304377		BOOM REST & CAB PROTECTOR	
ITEM	PART NO.	REQ'D.	DESCRIPTION
1	4505-0001	2	PLATE, A36, 1/4 X 2 1/4 X 12
2	4505-0001	2	PLATE, A36, 1/4 X 4 3/4 X 28
3	4505-0001	2	PLATE, A36, 1/4 X 1 1/2 X 18 31/32
4	4501-0032	2	ANGLE, 3 X 2 X 1/4 X 21 9/16
5	4507-0036	1	TUBE, RECT., 3 X 2 X 1/4 X 96 7/16
6	247543-3	1	BOOM REST W/RESTRAINTS
7	238849-1	2	END CAP
8	4501-0032	2	ANGLE, 3 X 2 X 1/4 X 51 3/8



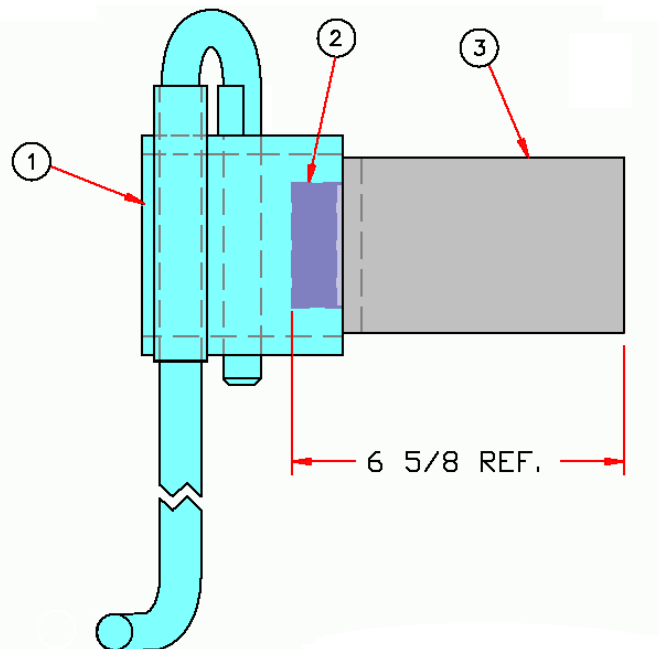
NEXT ASSY.		AQUATECH A PRODUCT OF HI-VAC CORPORATION 117 INDUSTRY ROAD MARIETTA, OHIO 45750 USA PHONE +740.374.9171 FAX +740.374.5447		
—				
—				
—				
SCALE:		WEIGHT:	DRAWN BY:	PRODUCT CODE:
DWG SIZE: B		DATE: 10/22/10	CHECKED BY:	B-SERIES
DESCRIPTION:				
BOOM REST & CAB PROTECTOR, ENCLOSURE MOUNTED				
MATERIAL:		PART NUMBER:	REV:	
RAW MAT'L:		304377	B	

⑩ ADDED ITEM 8 AND CORRECTED ANGLE SIZE FROM 2 1/2 TO 3 1/2	1/27/11	RP	—
⑨ ADDED ITEM 7	1/20/11	RP	—
REV.	DESCRIPTION	DATE	BY
UNLESS OTHERWISE SPECIFIED ✓ = 125 MICRONS BREAK ALL EDGES FABRICATION TOL. ± 1/16" ANGULAR ± 1°			
THIS DOCUMENT IS THE PROPERTY OF HI-VAC, CORP. AND IS FURNISHED FOR AUTHORIZED USE ONLY. NEITHER THIS DOCUMENT NOR THE INFORMATION DISCLOSED HEREIN SHALL BE COPIED, REPRODUCED, TRANSFERRED OR USED FOR MANUFACTURING OR FOR ANY OTHER PURPOSE EXCEPT AS AUTHORIZED IN WRITING BY HI-VAC, CORP.			

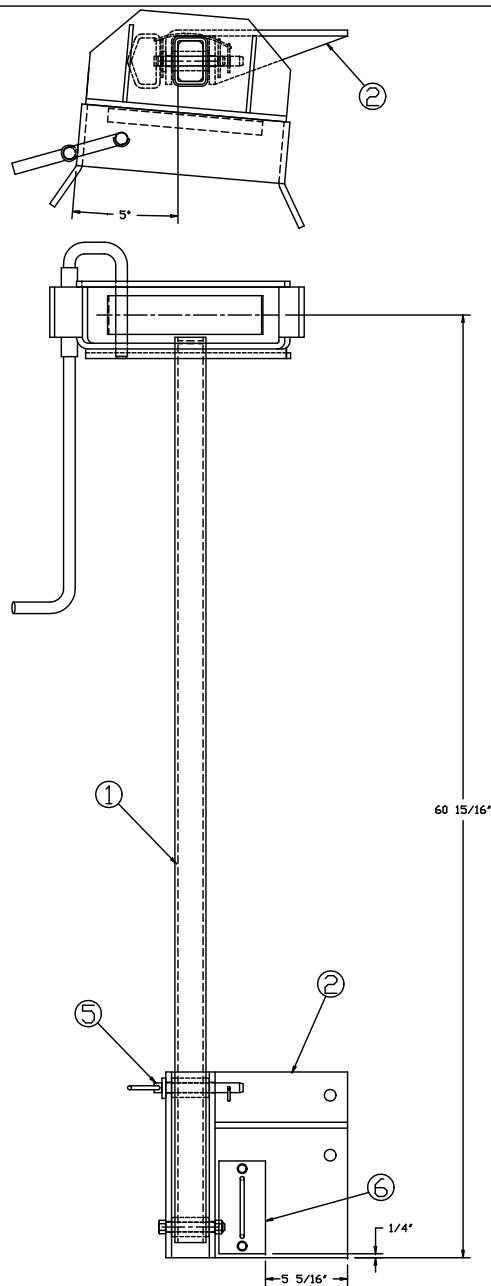
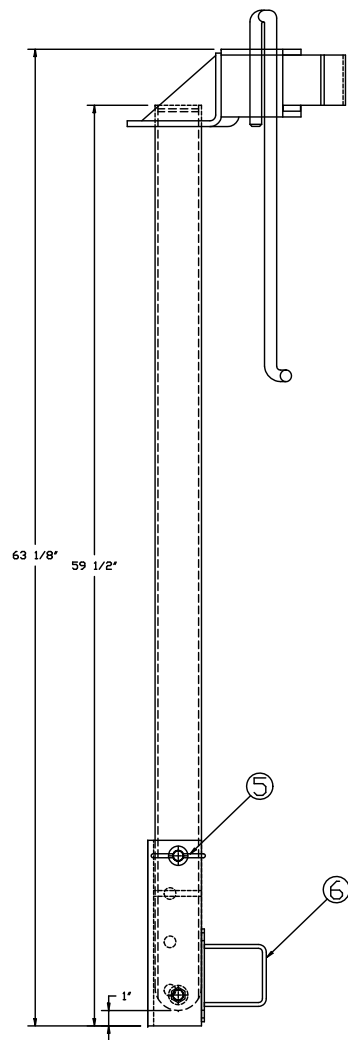


A338204

BOOM LATCH



ITEM	PART NUMBER	DESCRIPTION
1 to 3	A338204	Boom Latch Complete Assy.
1	A338203	Boom Latch Assy. (Hook & Housing)
2	A240791-3	Rubber Bumper Pad, 10" Long
3	A338205	Mounting Strap

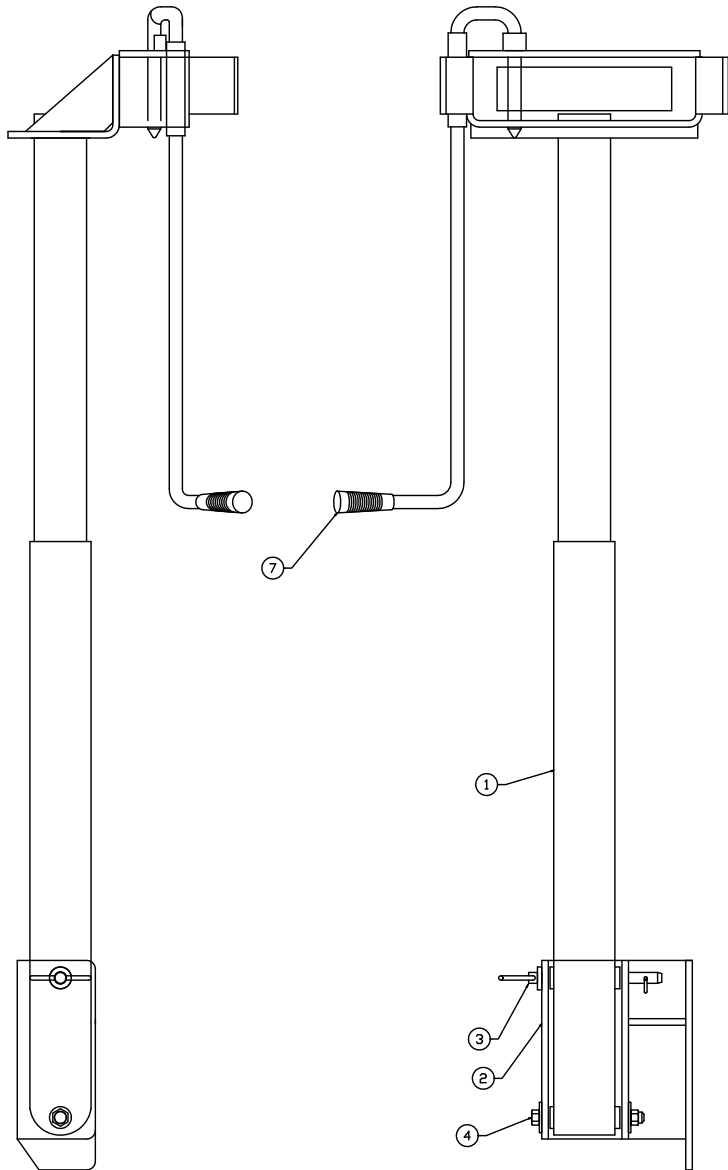


PART NO.: 338451		DESCRIPTION: BOOM LATCH ASSY	
ITEM	PART NO.	REQ'D	DESCRIPTION
1	338444	1	WELDMENT, PIVOTING ARM STRUCTURE
2	338449-1	1	WELDMENT, FRAME MOUNTED STRUCTURE
5	102807	1	PIN, HITCH, 5/8 DIA., 4" USE. LENGTH, W/PIN
6	338457	1	HOOK, BOOM HOSE CHAIN

NOTE:
DO NOT INSTALL ITEM
#6 UNTIL BOOM HOSE
IS INSTALLED.

DO NOT SCALE

NEXT ASSY.				AQUATECH			
—				A PRODUCT OF H-VAC CORPORATION			
—				117 INDUSTRY ROAD, WAREHO, OHIO 43080 USA			
—				PHONE +740.374.9171 FAX +740.374.5447			
④ ITEM 2 WAS 338449; UPDATED	01/03/07	SMW	—	SCALE: NONE	REQ'D: —	DRAWN BY: SMW	PRODUCT CODE: —
④ REMOVED ITEMS 3 & 4	3-21-06	CAH	—	DWG SIZE: D	DATE: 10/07/06	CHECKED BY: —	FRONT REEL
REV. 1	DESCRIPTION	DATE	BY	DESCRIPTION: BOOM LATCH ASSEMBLY			
UNLESS OTHERWISE SPECIFIED				MATERIAL: SEE B.O.M.			
7/16" UNLESS OTHERWISE SPECIFIED				PART NUMBER: 338451			
DRAW ALL DIMS. ± .005				REV: B			
FINISH: 16 ± .005				RAW MAT'L: —			
TOLERANCE: 16 ± .005				EXCEPT AS AUTHORIZED IN WRITING BY H-VAC, CORP.			



PART NO.:		DESCRIPTION:	
338848		BOOM LATCH ASSEMBLY	
ITEM	PART NO.	REQ'D.	DESCRIPTION
1	338444-1	1	PIVOTING ARM,BOOM LATCH
2	338846	1	BOOM LATCH MOUNT
3	102809	1	HITCH PIN,5/8" DIA
4	21-1410-48	1	BOLT 5/8-11, 6"LG
5	BIN ITEM	1	5/8" NYLON NUT
6	BIN ITEM	2	5/8" WASHER
7	220956	1	HANDLE GRIP

DO NOT SCALE

⑥ ADDED ITEM 7		3/27/12		EP		—		SCALE:		WEIGHT:		DRAWN BY: KRS		PRODUCT CODE:	
⑦ ADDED WASHERS & FIXED BOLT LENGTH		9/7/11		EP		—		DWG SIZE: B		DATE: 3/25/11		CHECKED BY:		FRONT REEL	
REV.		DESCRIPTION		DATE		BY		DESCRIPTION:							
UNLESS OTHERWISE SPECIFIED								BOOM LATCH ASSEMBLY							
✓ = 125 MICRONS		MACHINING TOLERANCES		THIS DOCUMENT IS THE PROPERTY OF HI-VAC, CORP. AND IS FURNISHED FOR YOUR USE ONLY. NEITHER THIS DOCUMENT NOR THE INFORMATION DISCLOSED HEREIN SHALL BE COPIED, REPRODUCED, TRANSFERRED OR USED FOR MANUFACTURING OR FOR ANY OTHER PURPOSE, EXCEPT AS AUTHORIZED IN WRITING BY HI-VAC, CORP.											
BROW ALL EDGES		FRACTIONAL ± .015													
HUBSING TOL. ± 1/16"		DECIMAL ± .010													
ANGULAR ± 1°		XXX ± .005													
				MATERIAL:		PART NUMBER:				REV:					
				RAW MAT'L:		338848				B					

3	ADDED ITEM 7	3/27/12	EP	—
4	ADDED WASHERS & FIXED BOLT LENGTH	9/7/11	EP	—
REV.	DESCRIPTION	DATE	BY	

UNLESS OTHERWISE SPECIFIED
✓ = 125 MICRONS
BREAK ALL EDGES
FRACTIONAL TOL. ± 1/16"
FRACTIONAL TOL. ± .010
DECIMAL ± .010
ANGULAR ± 1°

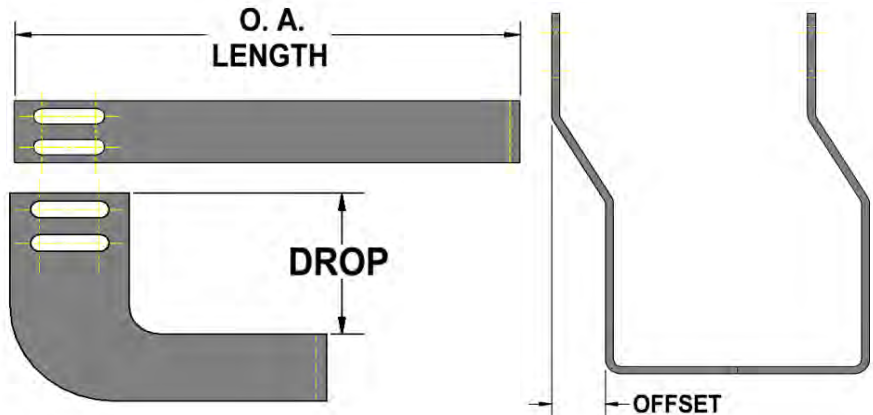
MACHINING TOLERANCES
FRACTIONAL ± .015
DECIMAL ± .010
XXX ± .005

THIS DOCUMENT IS THE PROPERTY OF HI-VAC, CORP.
AND IS FURNISHED FOR AUTHORIZED USE ONLY. NEITHER
THIS DOCUMENT NOR THE INFORMATION DISCLOSED HEREIN
SHALL BE COPIED, REPRODUCED, TRANSFERRED OR USED
FOR MANUFACTURING OR FOR ANY OTHER PURPOSE
EXCEPT AS AUTHORIZED IN WRITING BY HI-VAC, CORP.

MATERIAL:
RAW MAT'L:

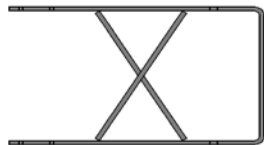


8" BOOM REST STRAPS



PART NO.	O.A. LENGTH	MTG. WIDTH	DROP	OFFSET
A241395-13	6-1/8"	11-1/2"	2.5"	0
A241395	8-5/8"	11-1/2"	0	0
A241395-6	8-5/8"	11-1/2"	6-1/2"	0
A241395-10	10-5/8"	11-1/2"	5-1/4"	0
A241395-18	11-3/8"	11-1/2"	0	2"
A241395-17	11-3/8"	11-1/2"	0	2-1/2"
A241395-19	11-7/16"	11-1/2"	0	3"
A241395-3	13-3/4"	11-1/2"	0	5-1/16"
A241395-4	14-5/8"	11-1/2"	0	0
A241395-7	14-5/8"	11-1/2"	2"	0
A241395-11 *	18-5/8"	11-1/2"	0	0
A241395-8	18-5/8"	11-1/2"	0	2-1/2"
A241395-5	19-5/8"	11-1/2"	0	0
A241395-2 *	24-3/8"	11-1/2"	0	0
A241395-14	24-5/8"	11-1/2"	0	2-1/2"
A241395-9 *	27-1/2"	11-1/2"	2"	1-1/4"
A338510 *	29-1/16"	11-1/2"	1.5"	0
A241395-20 *	31"	11-1/2"	0	3"
A241395-1 *	31"	11-1/2"	0	0
A241395-15	32-3/8"	11-1/2"	0	2-1/2"
A241395-12 *	37-1/2"	11-1/2"	2	3-1/2"

* Cross Braced





BOOM HOSE CLAMPING KIT FOR TRAVELING



Note: Part numbers A338780-1 & A338780-4 are replaced by A338780 due to part number consolidations as a result of design changes.

PART NO.	DESCRIPTION	A338780	A338780-2
		QTY	QTY
A107319	DOUBLE CLEVIS, 1/4" X 5/16" W/PINS	1	1
A304034	BUMPER BRACKET, CHAIN ATTACHMENT	1	1
A338779	STRAP HALF, BOOM HOSE *	2	
A380493-24	CHAIN, 5/16" X 24"L, FOR BOOM HOSE	1	1
08-7203	SLIP HOOK W/SAFETY LATCH	1	1

** Nuts, bolts and washers are not included.*

The following anchor clamp assemblies were used on early level wind arms – current level wind arms have anchor eye made integral with the arm (see the above left photo).

	PART NO.	DESCRIPTION
	A338765	Chain anchor clamp for older units with a round tube level wind arm (pictured to the left).
	A338841	Chain anchor clamp for units with an early square tube level wind arm.

AQUATECH STYLE COUPLERS

We often hear people refer to our couplers as being "Bauer Fittings". This is a common misconception that we would like to correct. Here is an photographic depiction of the Bauer coupling system...



And here is a depiction of the Aquatech style coupler, Notice the latches are opposite. On the Bauer the latches are on the ring behind the ball (male end) and on the Aquatech the latches are on the socket (female end). Also the flare is larger on our female end.



Please refer to our "Quick Coupler Components" chart for parts and information.

AQUATECH® QUICK COUPLER COMPONENTS											
CAP		FEMALE END (welds on)		O-RING (for female coupler)		MALE END (welds on)		RING			
GALV. STEEL		BLACK STEEL		NEOPRENE RUBBER		BLACK STEEL		GALV. STEEL		BLACK STEEL	
TUBE SIZE	PART#	SHP. WT.	PART#	SHP. WT.	PART#	I.D.	O.D.	PART#	SHP. WT.	PART#	SHP. WT.
2 1/2"	A170290	1 lb.	A171190	1 lb.	A190620	3.38"	4.14"	A171250	1 lb.	A152920	A152925 5 lb.
3"	A170300	1 lb.	A171210	1 lb.	A190630	4.00"	4.90"	A171260	1 lb.	A171170	A171175 5 lb.
4"	A170310	1.5 lb.	A171220	1.5 lb.	A190770	4.75"	5.62"	A171270	1.5 lb.	A171180	A171185 5 lb.
6"	A170300M	2.5 lb.	A171230 A241891*	2.5 lb.	A190780	6.75"	7.96"	A171280	2.5 lb.	A152930	A152935 1 lb.
8"	A170325-MFD	4 lb.	A171240 A241777*	3.5 lb.	A191080	9.28"	10.75"	A171290	3.5 lb.	n/a	A171300 1.5 lb.

* Handle modified to accept Aquatech's leverage tool

Revised 1/21/2015

8" Boom Hose Inlet Adapters

This is an informational bulletin to illustrate the different styles of couplers used on the inlet of our boom hoses.



Standard Aquatech Style (A171312)

This male fitting (often erroneously referred to as a Bauer fitting) is our default boom hose coupler. It is used on 4", 6" and 8" boom hoses. The advantage of this "ball & socket" design is that the vacuum tubes can be attached at a slight angle.



Flat Flange Style (A381677)

Flat flange style couplings are found on many of our competitor's units (Vactor, Vaccon, Camel & etc.). Occasionally we have requests to ship one of our units with this style coupler so that the customer can keep his fleet having matching attachments. We have used this style on 6" and 8" boom hoses.



Male Travis Style (A380355)

There are multiple companies supplying irrigation style couplings, the two major ones being Bandlock and Travis. Bandlock style fittings are directly compatible with Travis style fittings but not the gaskets or clamps. The O.D. of the Travis fittings are a little larger than the Bandlock so the male Travis end will be a little tight going into the female Bandlock. Also, the Bandlock clamp will not close around the Travis fittings. The Travis clamp will work with Bandlock fittings but will be just a little loose.



Female Travis Style (U4802-0051)

NOTE: Besides double clamping the inlet adapter to the hose, we also drill and use three (3) each of the following: A380352 retaining clips, A380354 carriage bolts, A107210 flat washers, and A107016 lock nuts.

AQUATECH®

BOOM & PORT HOSES

Outlet Fitting (turret end)
used on all hose
assemblies except where
noted.

6" A380754
8" A380355



											
I. D.	FEET	METERS	HOSE MAT'L	HOSE ONLY	BOOM HOSE ASSEMBLIES						
4" (101.6mm)	7	2.13	Rubber	A382082	A382083 +						
	10	3.05	Rubber	A176261 (per ft.)	A381128 •						
	15	4.57	Rubber	A176264	A382659-1 •						
	24	7.32	Black Nitrile	A176262	A176262-1 +						
6" (152.4mm)	15	4.57	PVC	A176414 (per ft.)	A249254 •						
	15	4.57	PVC	A176415 (per ft.)							
	16	4.88	Rubber	A176618	A247046 •						
	20	6.10	Rubber	U7000-0004	A249394	A249394-FF	A249394-BL-M				
8" (203.2mm)	10	3.05	Black Rubber	A380269	A380191	A380191-V				A380191-CL	A380191-HDBL-F
	12	3.66	Green	A380989	A380191-FR	A380191-25105					
	14	4.27	Green Rubber	10-0721				U4707-0036 +			
	18	5.49	Black Rubber	A381204	A245582-18	A382521-1		A383803			A245582-18-HDBL-F
	20	6.10	Semi-Clr Polyu	A176627	A176319						
			Black Rubber	A176620	A245582	A382521	A245582-BL		A245582-BAUER		A245582-HDBL-20-F
			BLK/Yellow Liner	A176620-Y	A245582-Y						
	22	6.71	Black Rubber	A176628	A245582-21						
	23	7.01	Black Rubber	A176620-23 *							
	24	7.32	Black Rubber	A176620-24	A245582-23	A245582-23V	A245582-23BL	A245582-23-TRAVIS	A245582-23B		A245582-HDBL-23-F
			BLK/Yellow Liner	A176642-24		A245582-23V-Y		A245582-BL-23			
	25	7.62	Black Rubber	A380500							
	26.5	8.08	Black Rubber	A176620-1	A245582-25 or A380536-1	A380536-V	A380536-BL		A380536-1B		
	29	8.84	Black Rubber	A176620-29	A304021	A304021-V					

* Special Order Only - Discontinued for production and replaced by the 24' Hose.

• Has female Aquatech outlet fitting

+ Has inlet fitting only



OUTLET FITTING

INLET FITTING



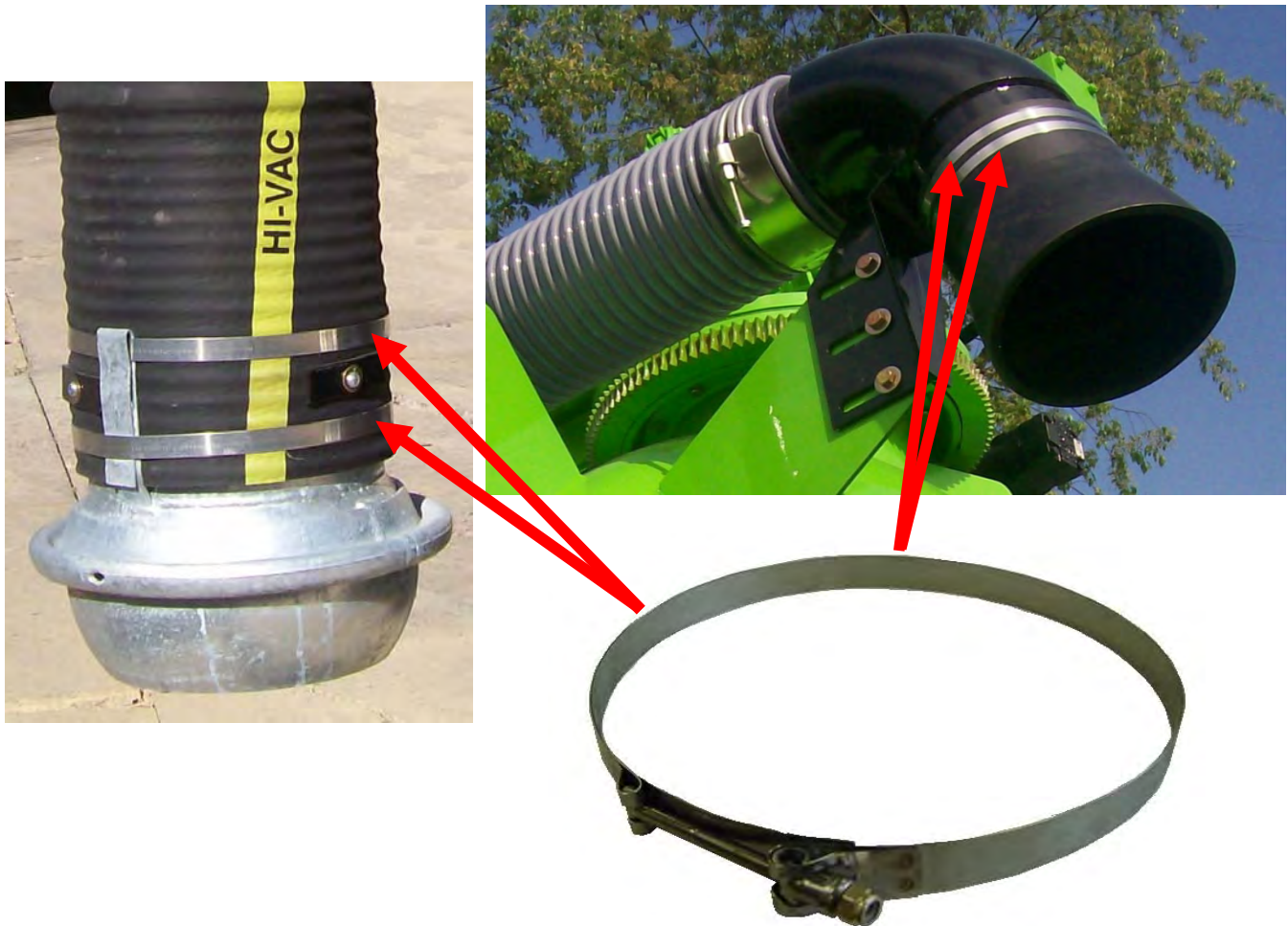
BOOM HOSE MAINTENANCE AND CARE:

1. Excessive end pull or twisting can damage or weaken end construction.
2. Never drag large hoses. Dollies or a sling should be used during transfer.
3. Inspect hose regularly. A light tap of a hammer will detect weak or soft areas badly worn from the inside.
4. Rotation of the hose distributes wear and maximizes service life. Different coloured axial paint strips at 90° or 180° near the hose ends will assist maintenance crew.

Note: The space of time elapsing between each rotation of the hose varies individually between different applications, depending on such factors as the type of material, flow rate, quantity of material handled, etc. By measuring the wear in the hose on a number of occasions at identical intervals, wear intensity can be determined and suitable times for rotation can be planned.

8" T-BOLT HOSE CLAMP

Here at Hi-Vac we use Band-It™ hose clamps on the majority of our clamped hose assemblies. They are strong and economical. However many of our customers do not have the special tool to install these clamps when replacing the 8" boom hose or the vacuum closure seal. For this reason we have available a "T-bolt" type clamp for easy field installation. All that is required for installation is a 7/16" socket or wrench. Boom hoses and the closure seal are double clamped and we recommend the same when using this clamp.



PART NO. A381225

Please see our Parts and Accessories Catalog for other sizes of T-Bolt clamps that we have available.



VACUUM ACCESSORIES

(Vac Tubes, Extension Hoses & etc.)

have been moved to

Section 10 “Vacuum System”

to help reduce the file size of this section.

