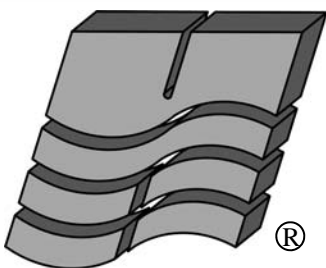
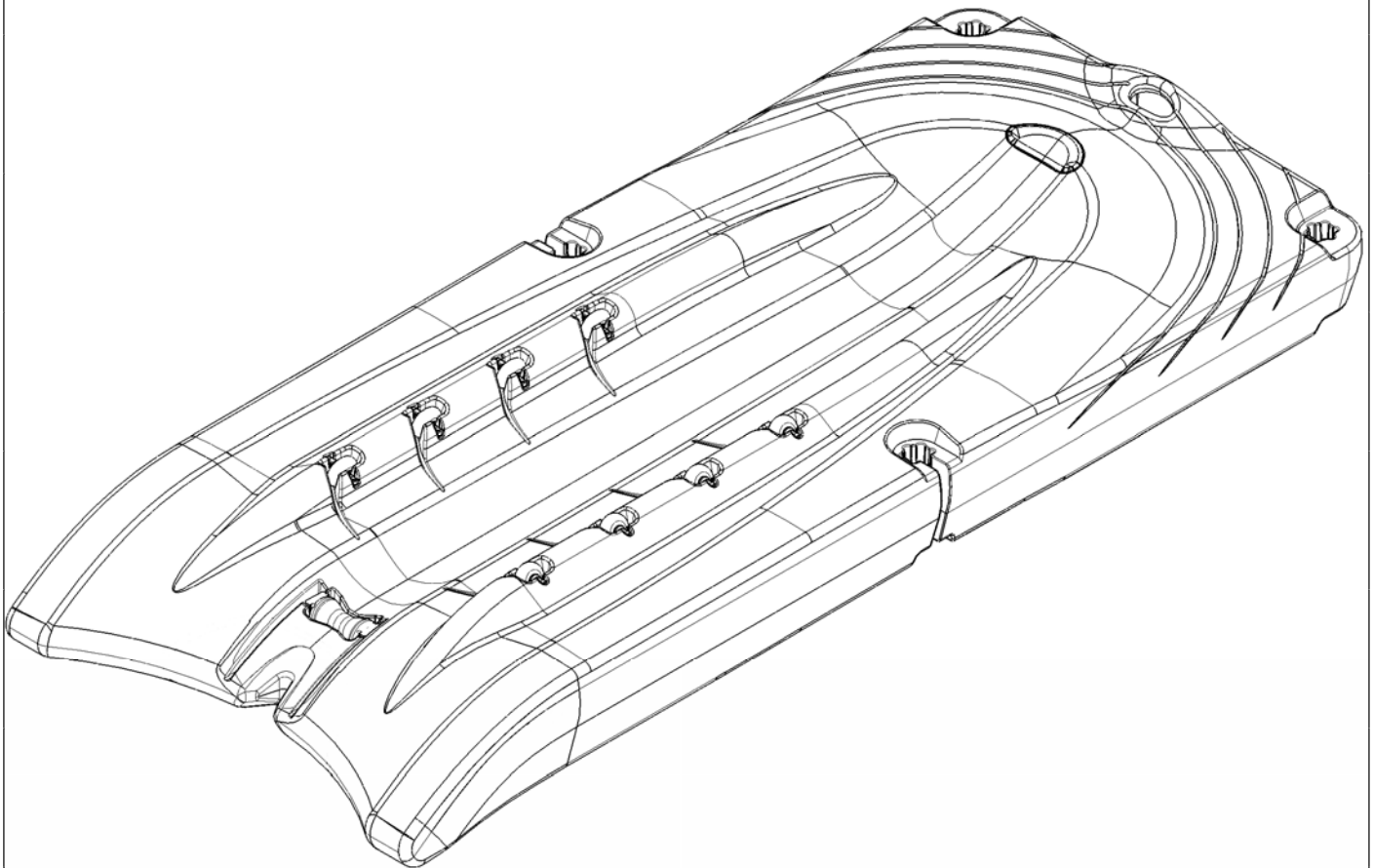


INSTALLATION MANUAL

HYDROPORT 2



HydroHoist® Boat Lifts

HydroHoist Marine Group
P.O. Box 1286 Claremore, OK USA 74018
1-800-825-3379

Pub. 6/09/09

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CUSTOMER SERVICE
HYDROHOIST MARINE GROUP
915 WEST BLUE STARR DRIVE
CLAREMORE, OK USA 74017
PHONE 918-341-6811
OFFICE HOURS M-F 8AM TO 5PM CT

HydroHoist Marine Group Safety Notice

TO ENSURE CONSUMER SAFETY, HYDROHOIST MARINE GROUP HAS INSTALLED IN THE CONTROL UNIT'S ELECTRICAL SYSTEM AN AC GROUND FAULT CIRCUIT INTERRUPTER (GFCI) DEVICE WHICH IS TO BE USED IN SERIES WITH THE USER'S PRIMARY AC POWER SOURCE. THE GFCI IS AN INTEGRAL PART OF THE HYDROHOIST BOAT LIFT AND IS DESIGNED TO OFFER A LIMITED MEASURE OF PROTECTION TO THE USER AGAINST HAZARDOUS ELECTRICAL CONDITIONS OR SHOCKS SHOULD THEY OCCUR.

THE USER SHOULD BE AWARE OF THE FOLLOWING WARNING:

WARNING!

IF USER DISABLES THE CONTROL UNIT'S GROUND FAULT CIRCUIT INTERRUPTER (GFCI) DEVICE, HE IS IN DIRECT CONFLICT WITH THE RECOMMENDATIONS OF THE UNITED STATES GOVERNMENT CONSUMER PRODUCTS SAFETY COMMISSION. DISABLING THE GFCI COULD RESULT IN SEVERE ELECTRICAL SHOCK OR DEATH.

BEFORE CONNECTING AC POWER TO THE CONTROL UNIT, BE CERTAIN THAT THE PRIMARY AC POWER SUPPLY MEETS ALL APPLICABLE ELECTRICAL CODES.

ANY INQUIRIES CONCERNING THE GROUND FAULT CIRCUIT INTERRUPTER (GFCI) DEVICE SHOULD BE REFERRED TO:

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Trouble Shooting - *Section 5*

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Getting Started

Assembly Platform

Assembly can be done on land, trailer, or water.

Tools

A list of tools needed for hoist assembly is given below. In addition to these, tools for boat dock preparation, dock bumper removal, etc. may also be required.

- ◆ 1/2" Drive Ratchet (minimum 9 inch handle length for leverage)
- ◆ Electric Drill
- ◆ 1/2" Drill Bit
- ◆ 3/8" Drill Bit
- ◆ 3/4" Deep Well Socket
- ◆ 9/16" Deep Well Socket
- ◆ 3/4" Open-end or Combination Wrenches
- ◆ 9/16" Open-end or Combination Wrenches
- ◆ 1/2" Open-end or Combination Wrenches (if attaching/removing Keel Guide)
- ◆ 12" Ratchet Extension (if attaching/removing Bow Bumper)
- ◆ Medium Phillips Screwdriver
- ◆ Drift Pin or other hole aligning tool
- ◆ Large Hammer (3 or 4 lb. shop hammer is best)
- ◆ Knife or tool for cutting
- ◆ Measuring Tape
- ◆ (2) 15/16" Open-end or Combination Wrenches (if using HD Dock Bracket)

Symbols & Conventions

All references to the LEFT or RIGHT are considered to be facing forward, as if driving a pwc on to the platform. Left is Port side, Right is Starboard side.
Parts are occasionally described as LEFT or RIGHT to identify their opposing construction, not location on the hoist.

All numbers in brackets [] after part names refer to the item numbers on the assembly illustrations within the manual.

Assembly Instructions

Notes:
Steps 1.1-1.3 are already done on purchased unit.

Step	Procedure
1.1	Insert the Bow Bumper [3] into the Main Body [1] by inserting the barbed feature on the bottom side of the Bow Bumper [3] into the hole on the Main Body [1] and pushing down until it is firmly seated.
1.2	Slide the In Line Axle [4] through the In Line Wheel [5] with an Axle Spacer [6] placed on each side of the wheel.
1.3	Screw down the In Line Axle [4] assembly into the Main Body [1] placing 1 Axle Shim [8] at each screw location, then securing with #14 Screw w/hi-lo threads [7]. DO NOT OVERTIGHTEN

Fig A.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	4150000	HP2 - MAIN BODY	1
3	4150081	HP2 BOW BUMPER W/ BARB	1
4	4150025	HP2 - IN LINE AXLE	8
5	4150020	HP2 - IN LINE WHEEL	8
6	2090241	HP2 - AXLE SPACER	16
7	4150013	SCREW - #14 HI LO - 1 1/4"	16
8	2091900	SPACER - BLACK ROUND	16

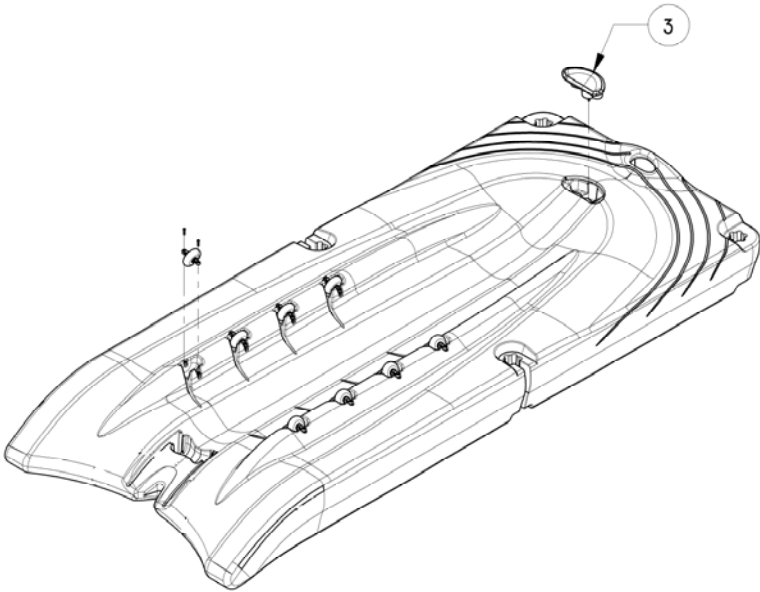
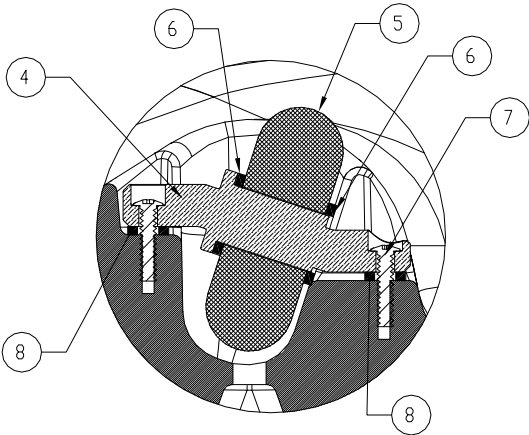


Fig B.



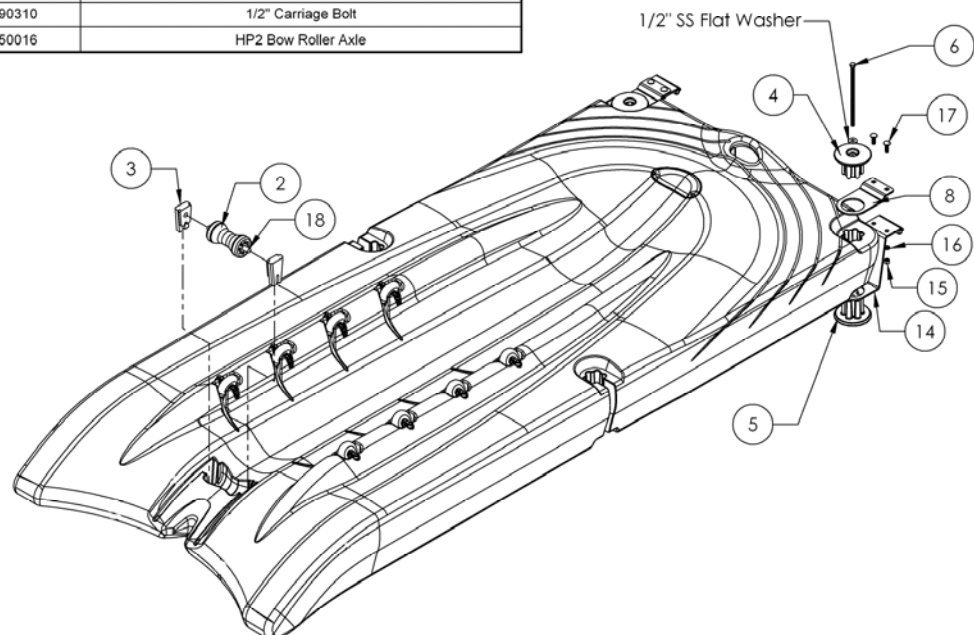
Installation Instructions

Rigid Dock

Step	Procedure
1.1	Fit the Bow Roller [2] and Axle [18] into the 2 Roller Mount Blocks [3] and slide in place on HP2 Assy. This requires no bolts.
1.2	<p>Assemble upper [8] and lower [14] mooring brackets together loosely, then slide the assembly onto the HP2 at mooring location. Holding the Bottom Plug [5] into the HP2 Assy as shown, run the SS Connecting Bolt [6] and SS Flat Washer through the Top Plug [4] and thread into Bottom Plug . Tighten bolt until top and bottom plugs are in contact with main body. To complete assembly, tighten the 1/2" carriage bolts on the rigid mooring brackets.</p> <p>[5] NOTE: DO NOT USE AN IMPACT WRENCH FOR FINAL TIGHTENING. FEEL THE BOTTOM PLUG AND VERIFY IT IS IN CONTACT WITH THE HP2 BODY. OVERTIGHTENING CAN CAUSE INSERT TO PULL OUT OF BOTTOM PLUG. (TIGHTEN TO 15-20 FT/LBS.)</p>

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	4150100	HP2 Assy
2	1	4150017	Bow Roller
3	2	4150005	Roller Axle Block
4	2	4150030	Top Plug
5	2	4150035	Bottom Plug
6	2	4150009	Stainless Bolt - 11"
7	1	4150085	Strap Hook
8	2	4150180	Mooring Link Top - Rigid Mount Dock
10	2	5048000	Heavy Duty Dock Bracket
11	2	4150170	Extended Hinge Mooring Plate
12	2	4150095	Hinge Mooring Plate
14	2	4150185	Mooring Link Bottom - Rigid Mount Dock
15	4	2090121	1/2" Locking nut
16	4	2090705	1/2" Lock Washer
17	4	2090310	1/2" Carriage Bolt
18	1	4150016	HP2 Bow Roller Axle

Fig C.



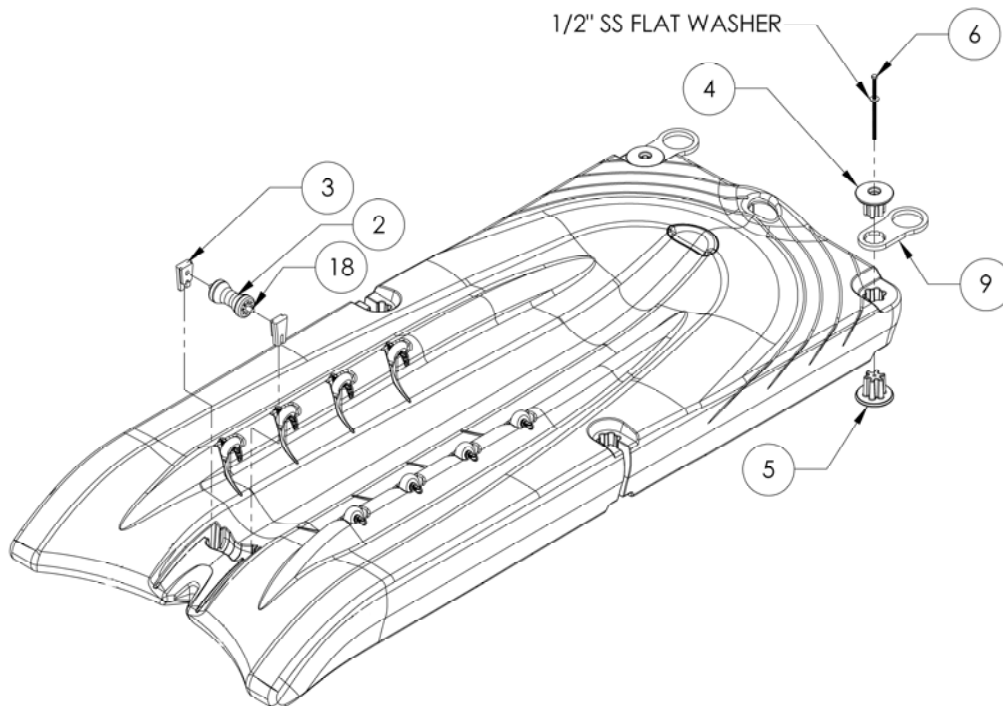
Installation Instructions

Universal Dock

Step	Procedure
1.1 <i>Alt</i>	Fit the Bow Roller [2] and Axle [18] into the 2 Roller Mount Blocks [3] and slide in place on HP2 Assy. This requires no bolts.
1.2 <i>Alt</i>	Holding the Bottom Plug [5] into the HP2 Assy as shown, run the SS Connecting Bolt [6] and SS Flat Washer through the Top Plug [4] and Mooring Link-Universal [9] and thread into Bottom Plug. Tighten bolt until top and bottom plugs are in contact with main body. NOTE: DO NOT USE AN IMPACT WRENCH FOR FINAL TIGHTENING. FEEL THE BOTTOM PLUG AND VERIFY IT IS IN CONTACT WITH THE HP2 BODY. OVERTIGHTENING CAN CAUSE INSERT TO PULL OUT OF BOTTOM PLUG. (TIGHTEN TO 15-20 FT/LBS)

Fig D.

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	4150100	HP2 Assy
2	1	4150017	Bow Roller
3	2	4150005	Roller Axle Block
4	2	4150030	Top Plug
5	2	4150035	Bottom Plug
6	2	4150009	Stainless Bolt - 11"
7	1	4150085	Strap Hook
9	2	4150060	Mooring Link - Fixed Dock
10	2	5048000	Heavy Duty Dock Bracket
11	2	4150170	Extended Hinge Mooring Plate
12	2	4150095	Hinge Mooring Plate
18	1	4150016	HP2 Bow Roller Axle



Installation Instructions

Rigid Mount Floating Dock Only

Step	Procedure
2.1	Drill four 3/8" holes into dock face and attach the Extended Hinge Mooring Plate [11]. If using the HD Dock Bracket [10] with Hinge Mooring Plate [12] holes will only need to be drilled if using thru-bolt method of dock bracket connection. NOTE: IT IS UP TO THE INSTALLER TO DETERMINE IF THE ATTACHMENT IS STRONG ENOUGH . ADDITIONAL REINFORCEMENT MAY BE NECESSARY IN ROUGH WATER.
2.2	Bolt the Rigid Mount Floating Mooring Link [8] to either Hinge Mooring Plate [11,12] as shown. It is best to bolt Mooring Link 1"-3" below its natural floating position depending on the watercraft. <i>Do not tighten to the point the bracket clamps the link.</i>

Fig E.

Kit # 4150260/4150261

Item #	Description	Part #	Qty.
1	HP2 Assy	4150100	1
2	Bow roller with axle	4150015	1
3	Roller axle block	4150005	2
4	Top Plug	4150030	2
5	Bottom Plug	4150035	2
6	Connector stainless bolt - 11"	4150009	2
7	Strap Hook	4150085	1
8	Brkt - Lower Assy - HP2 Mooring	4150185	2
8A	Brkt - Upper - HP2 Mooring	4150180	2
10	Heavy Duty Dock Brkt (OPTIONAL)	5048001	2
11	Extended Hinge Mooring Plate	4150170	2
12	Hinge Mooring Plate	4150095	2

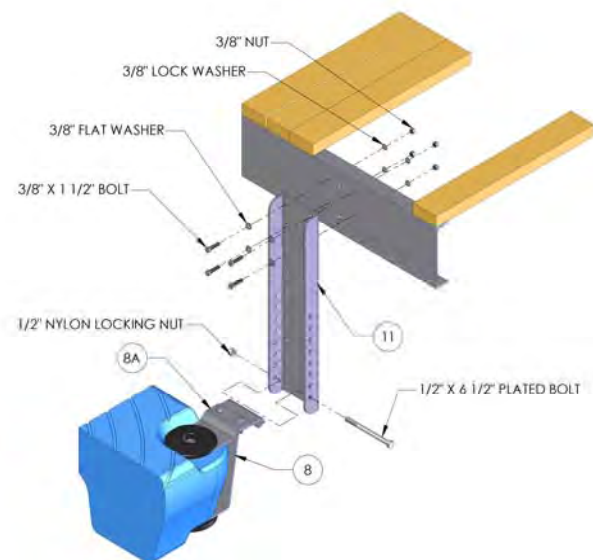


Fig F.

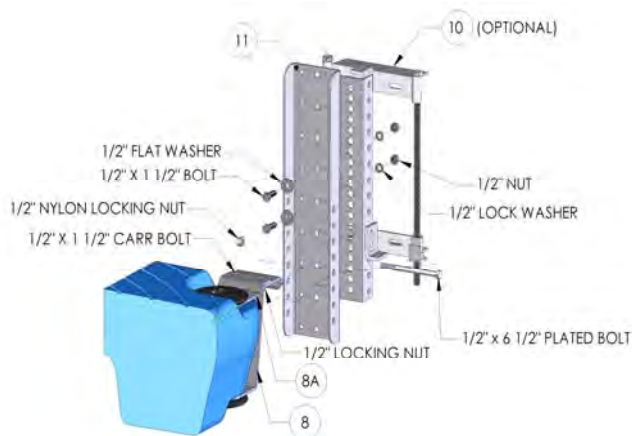
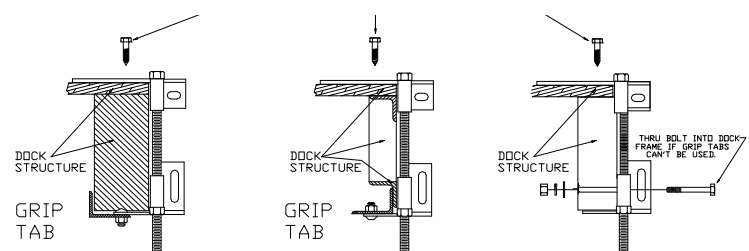


Fig G. (OPTIONAL)

MUST ANCHOR TOP OF BRACKET

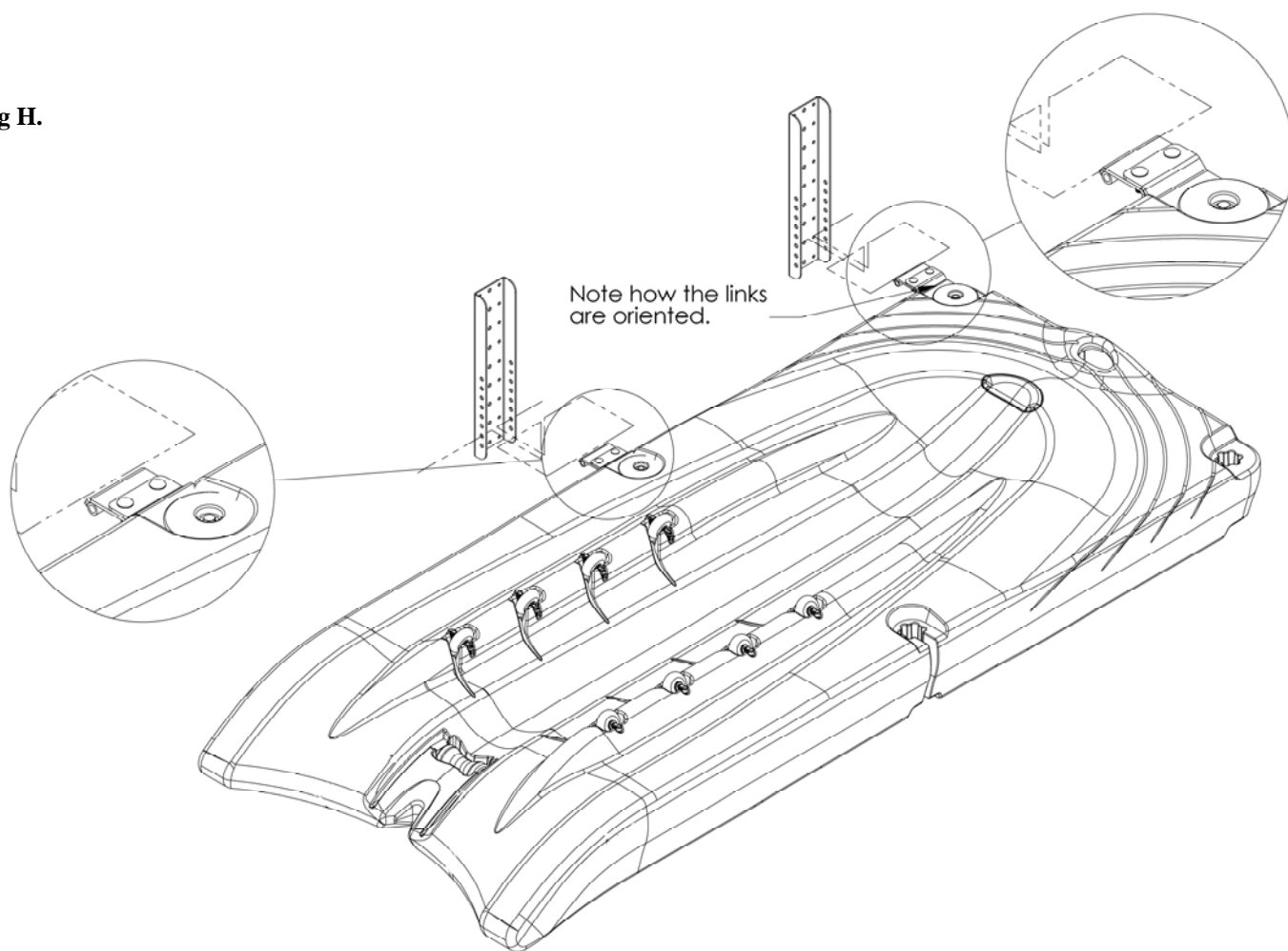


Installation Instructions

Rigid Mount

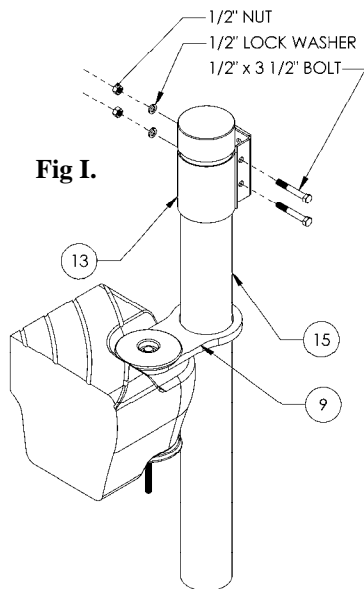
Step	Procedure
2.3	When attaching the Mooring Bracket-Rigid in side mount application make sure your Upper Mooring Brackets (4150180) are oriented as shown.
2.4	It is recommended to bolt the front Mooring Bracket-Rigid about 1" down from neutral (neutral is defined as: where the link is positioned without a craft on it) and the rear Mooring Bracket-Rigid down 1" from neutral.

Fig H.



Installation Instructions

Universal Dock– Fixed or Floating Docks



Step	Procedure
2.1 Alt	Attach the Universal Dock Bracket [13] to the dock as shown (3 different kits are illustrated). NOTE: IT IS UP TO THE INSTALLER TO DETERMINE IF THE ATTACHMENT IS STRONG ENOUGH. ADDITIONAL REINFORCEMENT MAY BE NECESSARY IN ROUGH WATER.
2.2 Alt	Insert the 4" SCH 80 PVC Pipe [15] through the Universal Dock Bracket [13] and the Mooring Link-Universal [9]. Bolt together as shown and tighten until the PVC Pipe is firmly in place.

Item #	Description	Part #	Qty.
1	HP2 Assy	4150100	1
2	Bow roller with axle	4150015	1
3	Roller axle block	4150005	2
4	Top Plug	4150030	2
5	Bottom Plug	4150035	2
6	Connector stainless bolt	4150009	2
7	Strap Hook	4150085	1
9	Mooring Link - Fixed Dock	4150060	2
10	Heavy Duty Dock Brkt (OPTIONAL)	5048001	2
13	Universal Dock Brkt Fixed/Floating	4150160	2
14	Reinforcing Back Plate	3151200	2
15	4" Sch 80 PVC Pipe 48"	3151300	2
16	Riser Plate (OPTIONAL)	3151500	2
17	Lagging Plate	3151600	2

Kit # 4150220/4150221

Fig J.

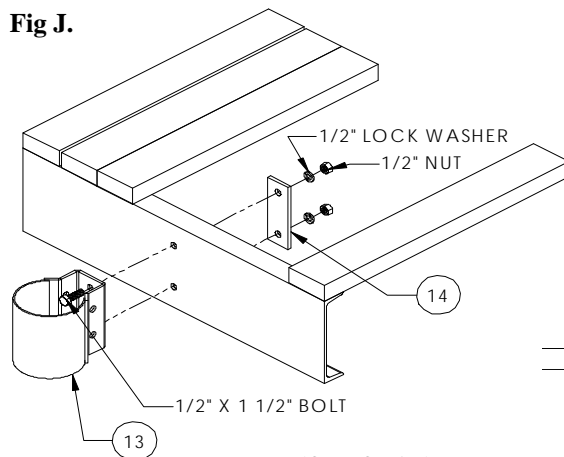
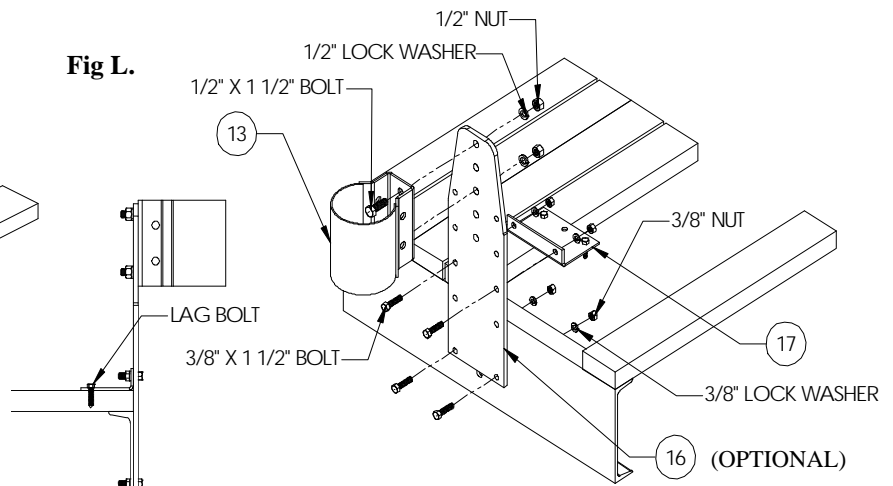
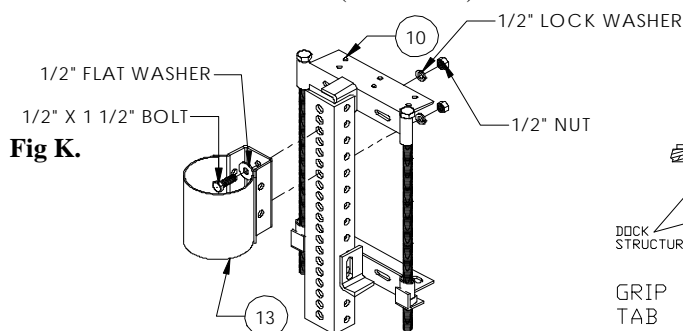


Fig L.

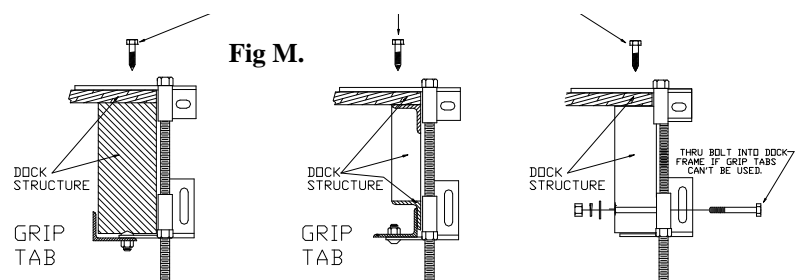


(OPTIONAL)



MUST ANCHOR TOP OF BRACKET

Fig M.



Installation Instructions

Connecting Units

Step	Procedure
3.1	Assemble parts as shown below. There will always be a top and bottom link in the middle and just a bottom link at the front.
3.2	Fasten Connecting Links (4150055) to one unit and leave unattached on the other side. Start threading the 15" Bolt (4150010) through the Top Plug and Connecting Links and into the bottom Plug (Only about 1/2" of Bolt should be threaded into Bottom Plug).

THERE WILL ALWAYS BE TOP
AND BOTTOM LINKS AT THIS
LOCATION WHEN TWO OR MORE
UNITS ARE CONNECTED

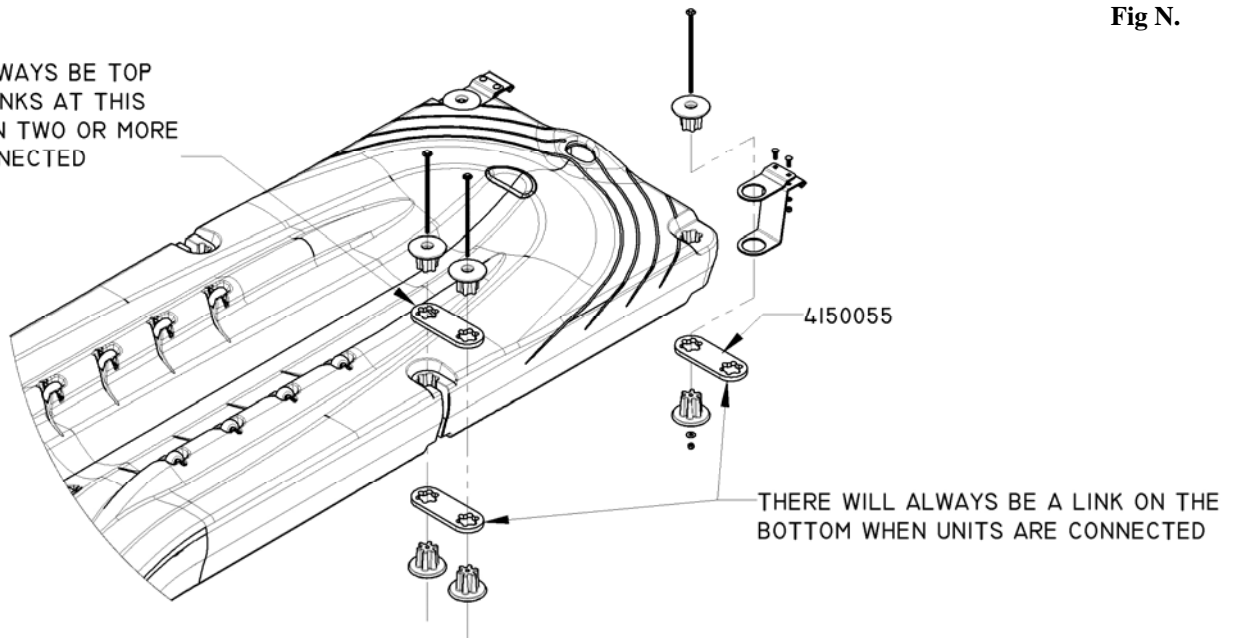


Fig N.

Installation Instructions

Connecting Units

Step	Procedure
3.3	Tighten the plugs on the side that is left unattached to the point that the bottom of the plugs are flush with the bottom of the Connecting Links. This ensures that the plugs will not rotate and, therefore, will be properly aligned with the feature on the HP2 body. A spacer that is 2 1/2" tall will help ensure that the plugs stay in position. A 4" PVC Pipe cut 2 1/2" long and then cut in half lengthwise is found to be the best spacer.
3.4	When Plugs are in position slide the two units together (try to keep approximately the same weight on both units for best alignment). When units are pushed together the top plug is pulled up to lock the bottom plug in position. The Top Plug can then be tightened (It is important to keep pulling the top plug up while tightening to keep the bottom plug engaged).
3.5	Now that units are connected the Plugs may be assembled at the front location to finish the attachment (Refer to Connecting Units Chart to find out where mooring links attach).

Fig O.

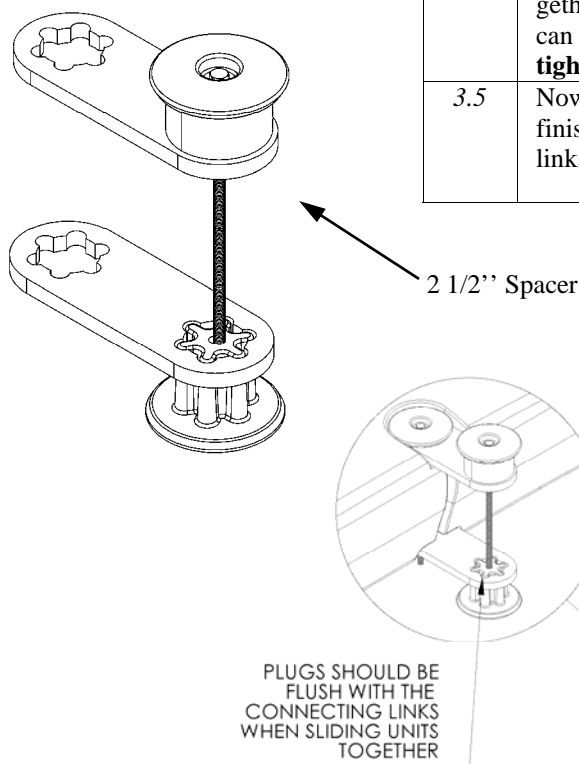
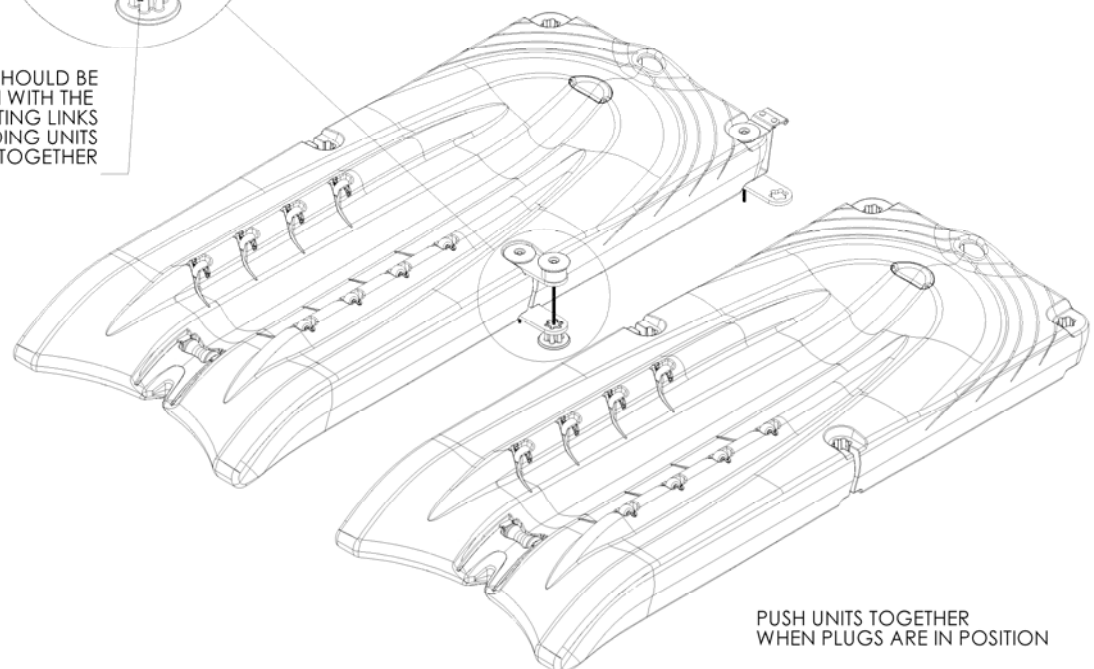


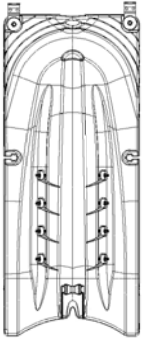
Fig P.



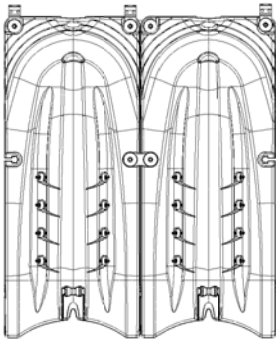
Installation Instructions

Fig Q.

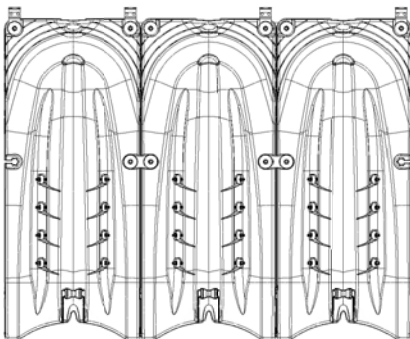
Recommended Mooring Link Locations



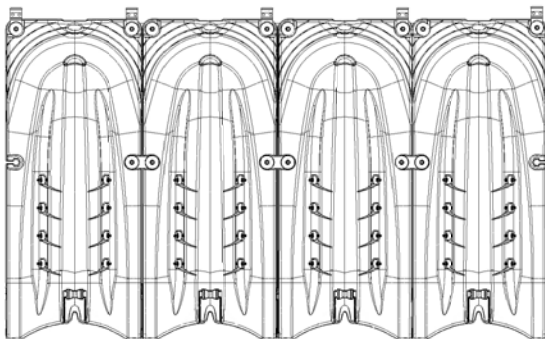
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2-4150260,210,220,230,240
1-6918175



3-4150260,210,220,230,240
2-6918175



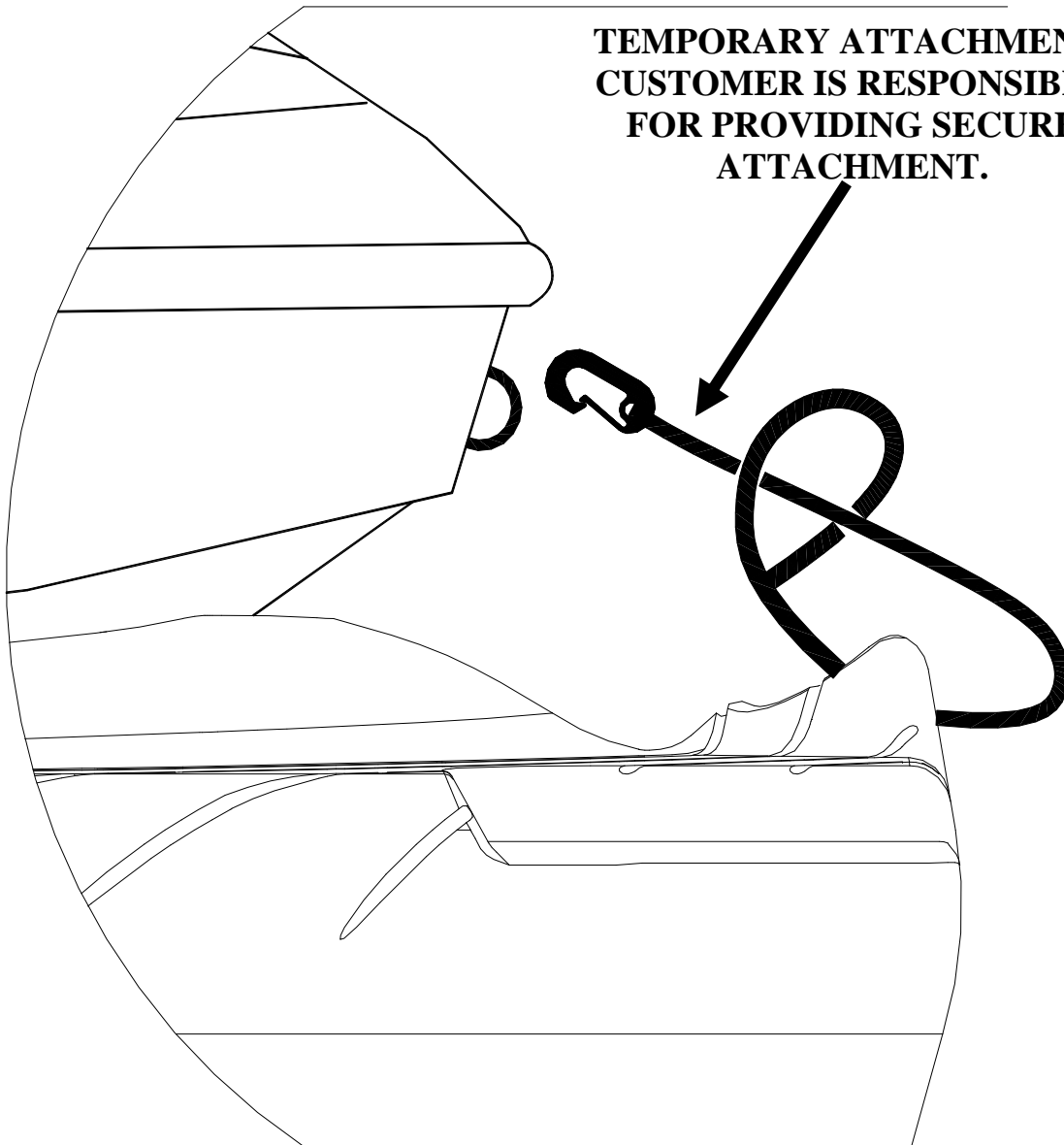
4-4150260,210,220,230,240
3-6918175

Strap Hook Installation

Fig R.

NOTE:

**TEMPORARY ATTACHMENT.
CUSTOMER IS RESPONSIBLE
FOR PROVIDING SECURE
ATTACHMENT.**



Operating Instructions

Loading (WARNING: Only load PWC when HP2 is unoccupied.)

1. Approach HP2 at idle speed only.
2. Position bow of PWC up against Keel Guide.
3. Apply necessary throttle to drive upon the platform until the bow of PWC rests on the bow bumper of HP2.
4. To secure the PWC, dismount from the watercraft and connect the strap hook through the front mooring eyelet of PWC.

Launching

1. Release strap hook from front mooring eyelet of PWC.
 2. Board PWC and shift weight towards rear of watercraft.
 3. Apply a rocking motion to initiate the launch.
 4. If PWC will not launch after rocking motion is applied, exit the PWC and move to the front of the HP2. Grasp the front of the PWC while lifting up and pushing back at the same time. After the launch is initiated, board the PWC and apply rocking motion.
-

Trouble Shooting

CONDITION:	I can't get my PWC to stay on the HP2 when I pull on to the platform
CAUSE:	A.) You are coming in to fast B.) The PWC's weight is to far to the rear of the craft.
CORRECTION:	A.) Try to just touch the bow of your PWC to the front of the unit and gently throttle on. When a PWC rides up on the bow bumper it slides back down and that momentum can take the craft off of the lift. B.) Take out the front set (end that supports bow) of in-line wheels to increase friction. This can be especially necessary when supporting a large heavy PWC like the Sea-Doo GTX Supercharged 4-Tech. If this does not help try taking off another set of wheels.

Parts List

Parts Box - Common (6918100)	Part #	Qty.
Bow roller	4150017	1
Roller axle block	4150005	2
Connector plug top	4150030	2
Connector plug bottom	4150035	2
Washer - 1/2" - FW - SS	2090208	2
Connector stainless bolt	4150009	2
Strap Hook	4150085	1
HP2- Axle Shim	2091900	32
Parts List	2006300	1
Installation Manual	2003250	1
Shim Placement Illustration	2009550	1
HP2 Bow Roller Axle	4150016	1

Kit# 4150100	PART #	QTY.
HP2 Platform Only—No Mooring		
HP2 - Main Body	4150000	1
HP2 - Bow Bumper	4150081	1
HP2 - In-line Axle	4150025	8
HP2 - In-line Wheel	4150020	8
HP2 - Axle Spacer	2090241	8
Screw - #14 Hi-Lo 1-1/4"	2097413	16

Parts Box - Rigid Mooring (6918121)	Part #	Qty.
Parts List Insert	2006400	1
Parts List Insert	2006500	1
Nut - Hex - 3/8" Galv	2090107	8
Nut - Hex - 1/2" Galv	2090111	4
Nut - Hex - 1/2" Locking	2090121	4
Nut - Hex - 1/2" Plated	2090122	2
Washer - FW - 3/8"	2090206	8
Washer - FW - 1/2"	2090209	4
Bolt Carr - 1/2"X1-1/2"	2090310	4
Bolt Hex Hd - 3/8"X1-1/2"	2090503	8
Bolt Hex Hd - 1/2"X1-1/2"	2090507	4
Bolt Hex Hd - 1/2"X6-1/2"	2090524	2
Washer - LW - 3/8"	2090704	8
Washer - LW - 1/2"	2090705	8
Brkt - Upper - HP2 Mooring	4150180	2
Brkt - Assy - Lower - HP2 Mooring	4150185	2
Extended Hinge Mooring Plate	4150170	2

Kit# 4150220	Part #	Qty.
w/Universal Dock Std. Mooring		
HP2 Assembly	4150100	1
Parts Box - Common	6918100	1
Universal Dock Bracket	6918110	1

Kit Box - Universal Dock (6918110)	Part #	Qty.
Connecting link - Fixed Dock	4150060	2
Bolt - Hex Head - 1/2" x 3 1/2"	2090590	4
Bolt - Hex Head - 1/2" x 1 1/2"	2090507	4
Nut - Hex - 1/2"-13 Galv	2090111	8
Washer - FW -1/2" Galv	2090209	4
Washer - LW - 1/2" Galv	2090705	8
Reinforcing Back Plate	3151200	2
Parts List	2006000	1
Mooring Pipe	3151300	2
Dock Bracket - Fixed	4150160	2

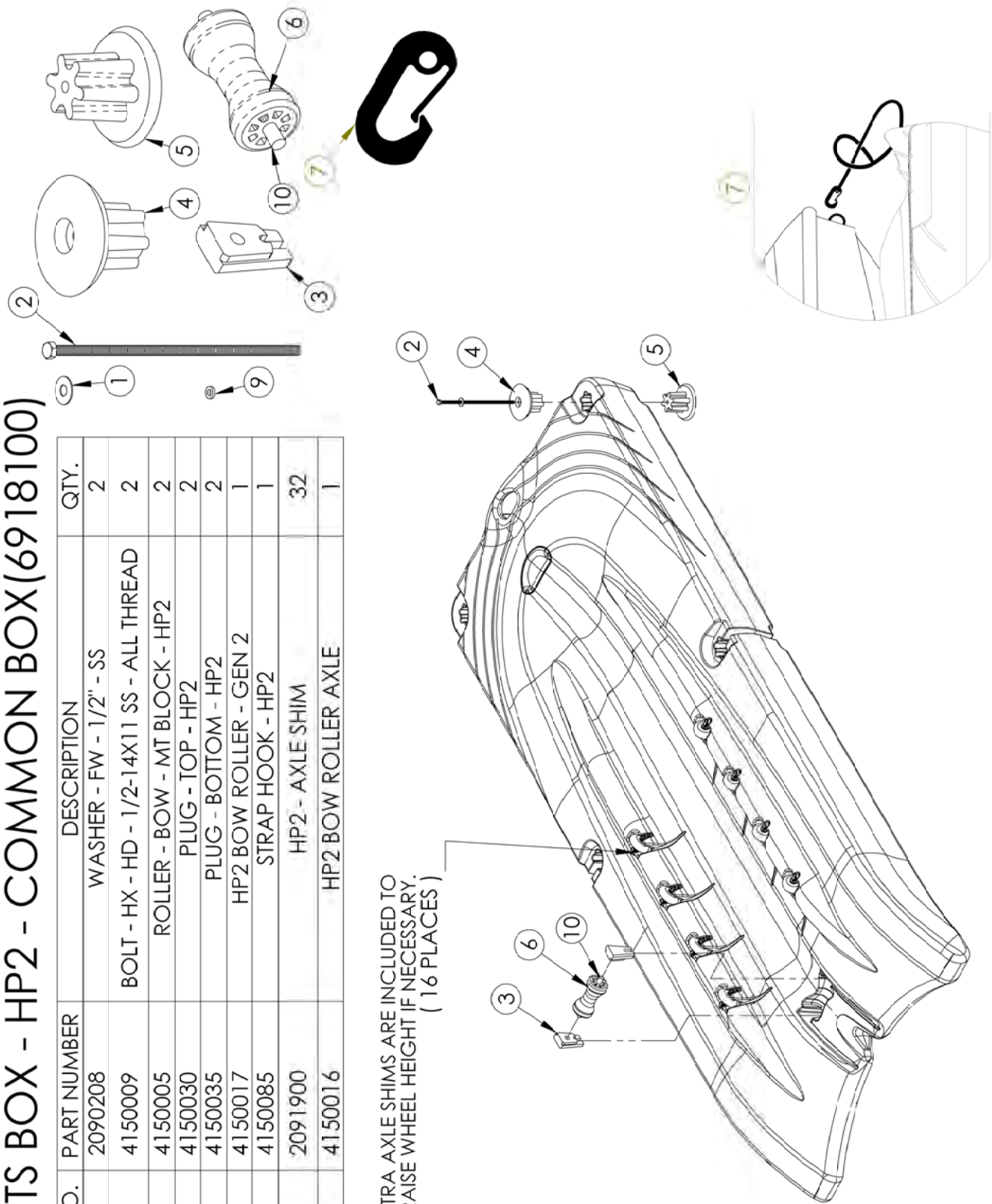
Connecting Kit (6918175)	Part #	Qty.
Washer - 1/2" - FW - SS	2090208	2
Connector stainless bolt	4150010	2
Connector plug top	4150030	2
Connector plug bottom	4150035	2
Connecting Link	4150055	3
Parts List	2006200	1

Kit# 4150260	Part #	Qty.
w/Floating Dock Rigid Mooring		
HP2 Assembly	4150100	1
Parts Box - Common - Floating Dock	6918100	1
Parts Box - Rigid Mooring	6918121	1

PARTS BOX - HP2 - COMMON BOX(6918100)

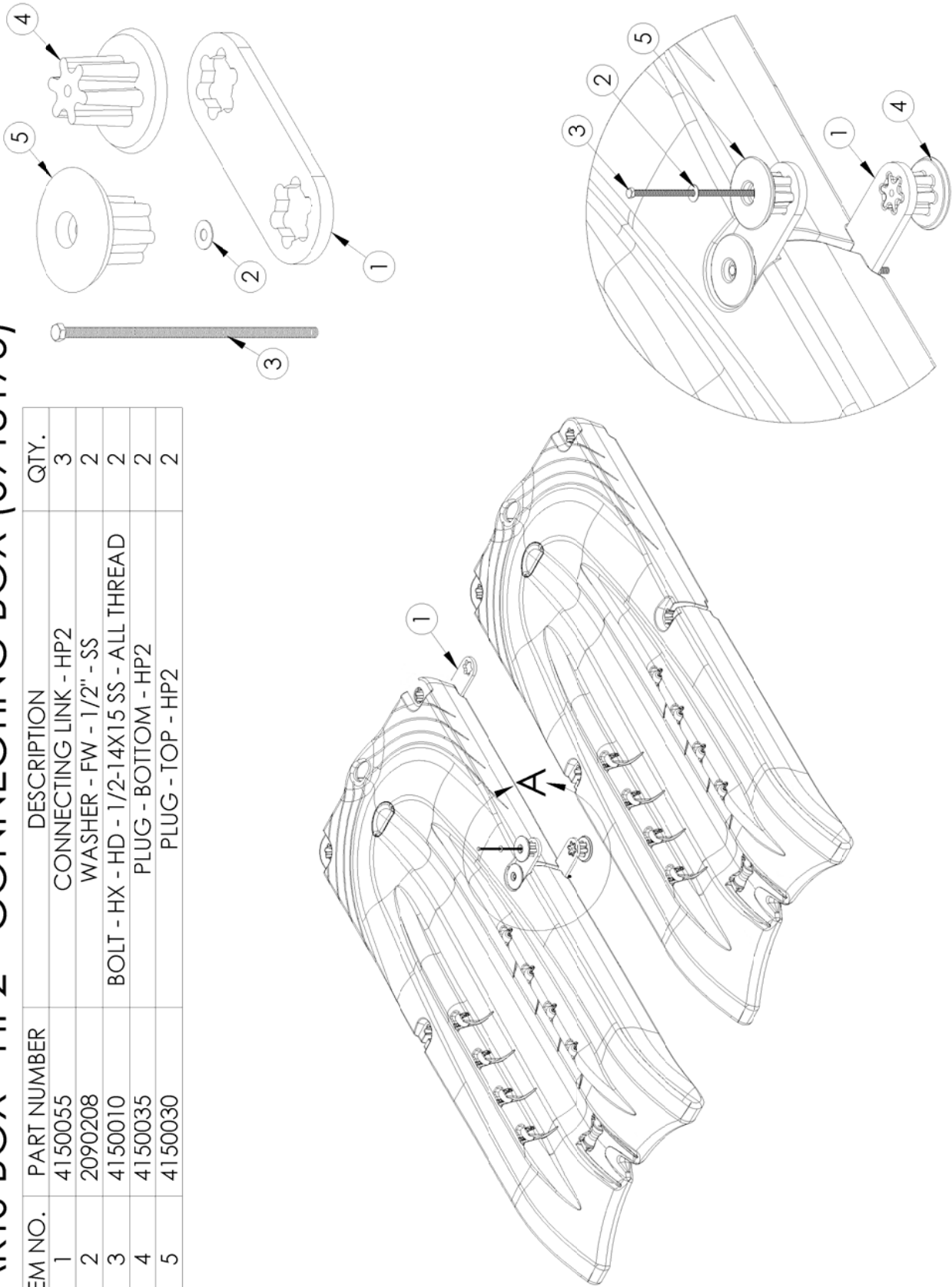
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	2090208	WASHER - FW - 1/2" - SS	2
2	4150009	BOLT - HX - HD - 1/2-14X11 SS - ALL THREAD	2
3	4150005	ROLLER - BOW - MT BLOCK - HP2	2
4	4150030	PLUG - TOP - HP2	2
5	4150035	PLUG - BOTTOM - HP2	2
6	4150017	HP2 BOW ROLLER - GEN 2	1
7	4150085	STRAP HOOK - HP2	1
9	2091900	HP2 - AXLE SHIM	32
10	4150016	HP2 BOW ROLLER AXLE	1

EXTRA AXLE SHIMS ARE INCLUDED TO
RAISE WHEEL HEIGHT IF NECESSARY.
(16 PLACES)



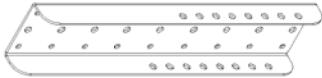
PARTS BOX - HP2 - CONNECTING BOX (6918175)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	4150055	CONNECTING LINK - HP2	3
2	2090208	WASHER - FW - 1/2" - SS	2
3	4150010	BOLT - HX - HD - 1/2-14X15 SS - ALL THREAD	2
4	4150035	PLUG - BOTTOM - HP2	2
5	4150030	PLUG - TOP - HP2	2



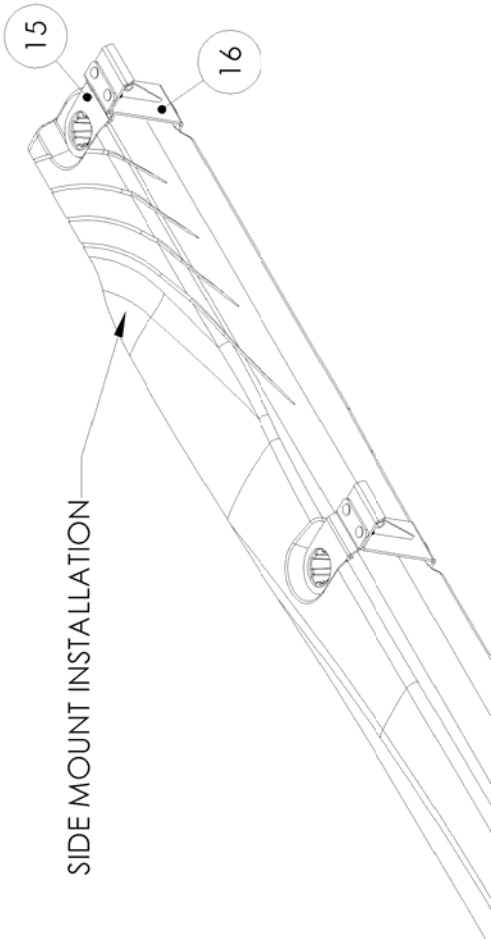
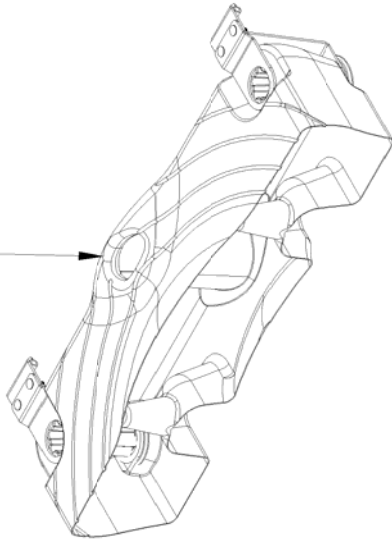
PARTS BOX - HP2 - RIGID MOORING (6918121)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	2006400	PARTS LIST INSERT	1
2	2006500	PARTS LIST INSERT	1
3	2090107	NUT - HEX - 3/8 GALV	8
4	2090111	NUT - HEX - 1/2 GALV	4
5	2090121	NUT - HEX - 1/2 LOCKING	4
6	2090122	NUT - HEX -1/2 PLATED	2
7	2090206	WASHER - FW - 3/8	8
8	2090209	WASHER - FW - 1/2	4
9	2090310	BOLT CARR - 1/2X1-1/2	4
10	2090503	BOLT - HX - HD - 3/8-X1 1/2	8
11	2090507	BOLT - HX - HD - 1/2-X1 1/2	4
12	2090524	BOLT HEX HD - 1/2X6-1/2	2
13	2090704	WASHER - LW - 3/8-GALV	8
14	2090705	WASHER - LW - 1/2 - GALV	8
15	4150180	BRKT - UPPER - HP2 Mooring	2
16	4150185	BRKT - ASSY - LOWER - HP2 Mooring	2
17	4150170	EXTENDED HINGE MOORING PLATE	2



EXTENDED HINGE MOORING PLATE

FRONT MOUNT INSTALLATION



KIT BAG - HP2 - UNIVERSAL DOCK (6918110)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	4150060	LINK - UNIVERSAL DOCK - HP2	2
2	2090111	NUT - HEX - 1/2-13 GALV	8
3	2090209	WASHER - FW - 1/2 GALV	4
4	2090507	BOLT - HX - HD - 1/2-13X1 1/2	4
5	2090590	BOLT - HX - HD - 1/2-13X3 1/2	4
6	2090705	WASHER - LW - 1/2 - GALV	8
7	3151200	PLATE - REINFORCEMENT	2
8	3151300	4" SCH. 80 PIPE - 48"	2
9	4150160	UNIVERSAL DOCK BRKT.	2

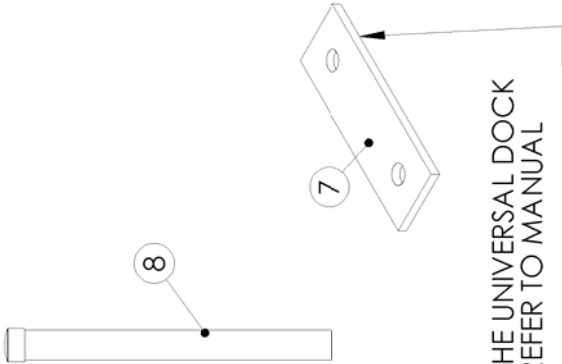


PLATE IS USED TO BACK UP THE UNIVERSAL DOCK BRACKET IN SOME CASES. REFER TO MANUAL TO SEE WHEN IT IS USED

