

INSTALLATION MANUAL

HydroPort PRO



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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.

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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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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 [2] into the Main Body by inserting the barbed feature on the bottom side of the Bow Bumper [1] into the hole on the Main Body and pushing down until it is firmly seated. |
| 1.2 | Slide the In Line Axle [6] through the In Line Wheel [7] with an Axle Spacer [8] placed on each side of the wheel. Screw [2] down Fig B in the Main Body. DO NOT OVERTIGHTEN |
| 1.3 | Slide the Bow Axle [5] through the Bow Roller [4] push into the pocket on the Main Body. Place Retainer [3] on top of the Bow Axle [5] and Screw [2] into the Main Body. DO NOT OVERTIGHTEN |

| ITEM # | PART NUMBER | DESCRIPTION | QTY. |
|--------|-------------|-------------------------|------|
| 1 | 4150081 | BOW BUMPER W/BARB | 1 |
| 2 | 4150008 | 1/4-20 X.75 SCREW | 28 |
| 3 | 4150007 | RETAINER, BOW ROLLER | 4 |
| 4 | 4150017 | BOW ROLLER | 2 |
| 5 | 4150016 | BOW ROLLER AXLE | 2 |
| 6 | 4150025 | INLINE ROLLER AXLE | 10 |
| 7 | 4150022 | WHEEL, INLINE 4IN ROUND | 10 |
| 8 | 2021900 | SPACER | 20 |

Fig A.

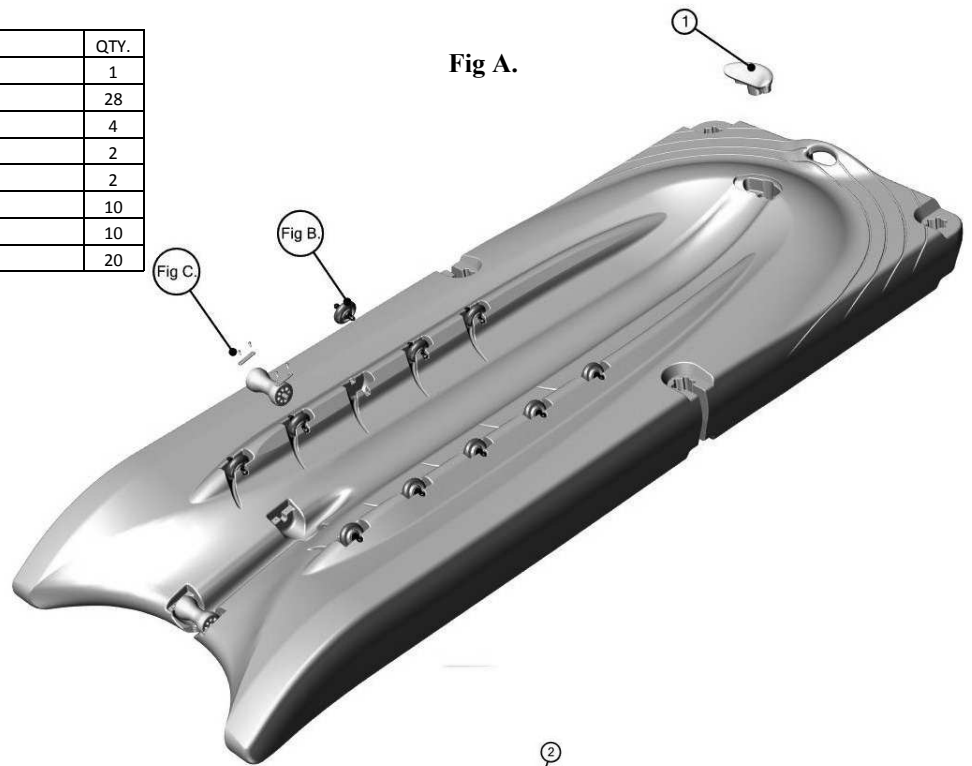


Fig B.

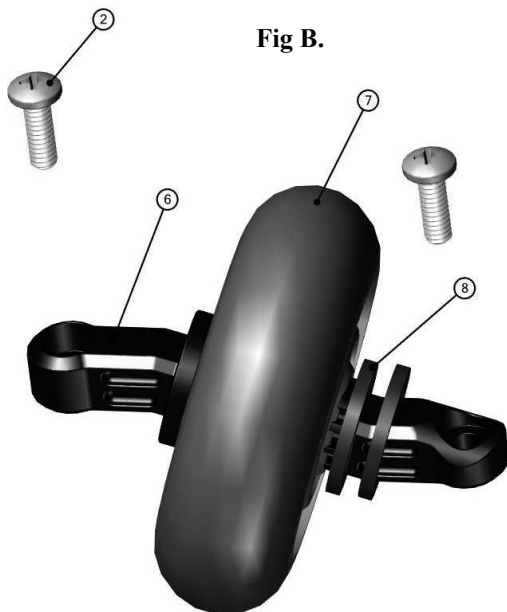
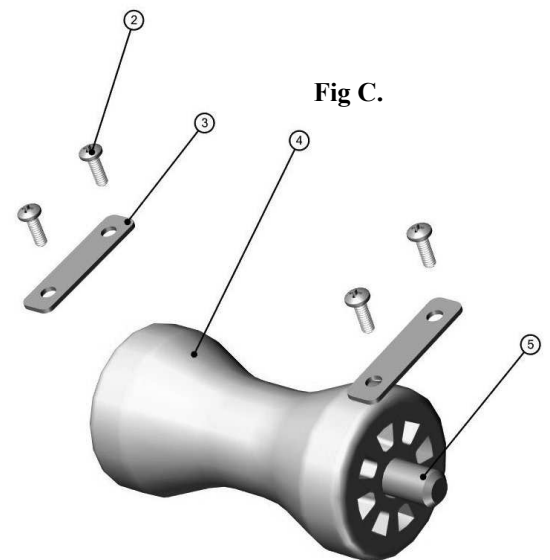


Fig C.



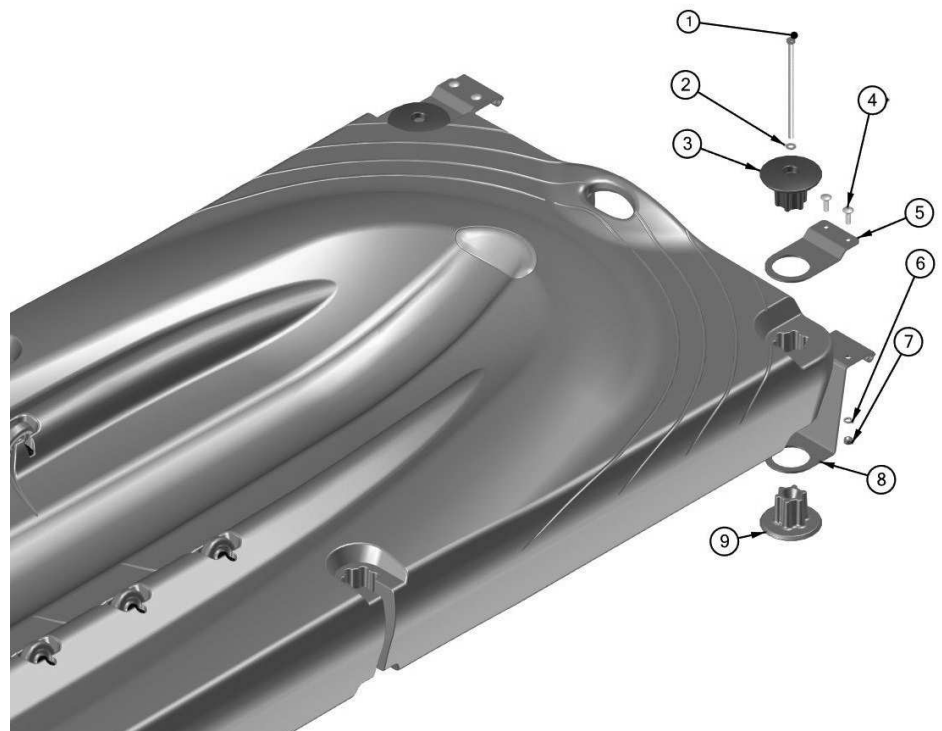
Installation Instructions

Rigid Dock

| Step | Procedure |
|------|---|
| 1.1 | Assemble upper [5] and lower [8] mooring brackets together loosely, then slide the assembly onto the HP PRO at mooring location. Holding the Bottom Plug [9] into the HP PRO Assy as shown, run the SS Connecting Bolt [1] and SS Flat Washer through the Top Plug [3] and thread into Bottom Plug [9]. 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. [9] NOTE: DO NOT USE AN IMPACT WRENCH FOR FINAL TIGHTENING. FEEL THE BOTTOM PLUG AND VERIFY IT IS IN CONTACT WITH THE HP PRO BODY. OVERTIGHTENING CAN CAUSE INSERT TO PULL OUT OF BOTTOM PLUG. (TIGHTEN TO 15-20 FT/LBS.) |

| ITEM # | PART NUMBER | DESCRIPTION | QTY. |
|--------|-------------|------------------------------|------|
| 1 | 4150009 | BOLT 1/2-14 X 15 ALL THREAD | 2 |
| 2 | 2090208 | FLAT WASHER 1/2 | 2 |
| 3 | 4150030 | PLUG- TOP HP SERIES | 2 |
| 4 | 2090310 | BOLT CARR- 1/2-13 X 1.5 | 4 |
| 5 | 4150180 | BRACKET- UPPER RIGID MOORING | 2 |
| 6 | 2090705 | WASHER, LOCK 1/2 | 4 |
| 7 | 2090121 | HEX NUT LOCKING, 1/2 | 4 |
| 8 | 4150185 | BRACKET- LOWER RIGID MOORING | 2 |
| 9 | 4150035 | PLUG- BOTTOM HP SERIES | 2 |

Fig D.



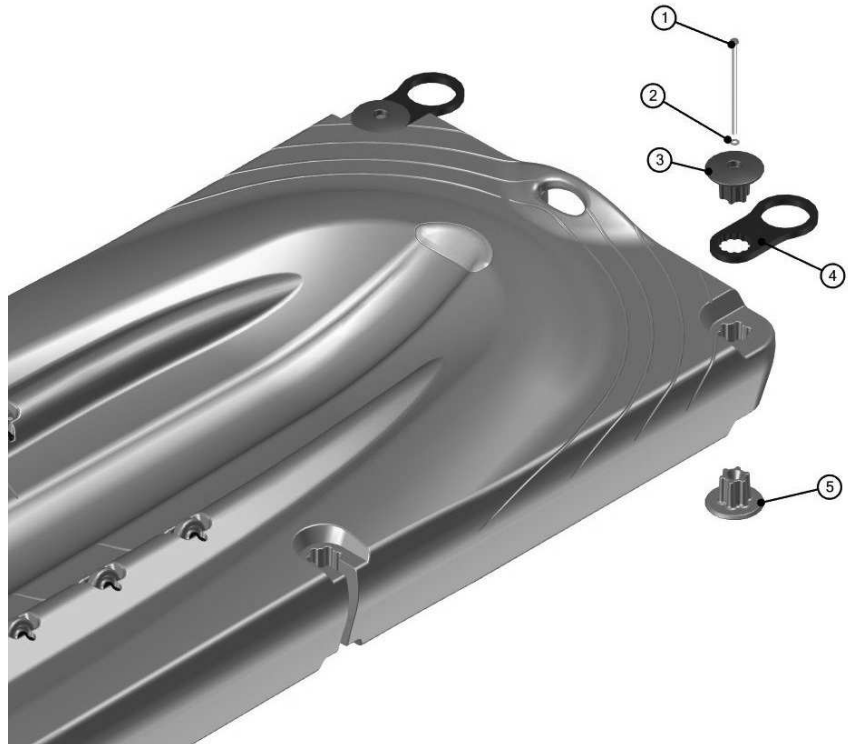
Installation Instructions

Universal Dock

| Step | Procedure |
|------|---|
| 1.1 | Holding the Bottom Plug [5] into the HP PRO Assy as shown, run the SS Connecting Bolt [1] and Flat Washer Through the Top Plug [4] and Mooring Link-Universal [4] 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 HP PRO BODY. OVERTIGHTENING CAN CAUSE INSERT TO PULL OUT OF BOTTOM PLUG. (TIGHTEN TO 15-20 FT/LBS) |

| ITEM # | PART NUMBER | DESCRIPTION | QTY. |
|--------|-------------|-----------------------------|------|
| 1 | 4150009 | BOLT 1/2-14 X 15 ALL THREAD | 2 |
| 2 | 2090208 | FLAT WASHER 1/2 | 4 |
| 3 | 4150030 | PLUG- TOP HP SERIES | 2 |
| 4 | 4150060 | MOORING LINK- FIXED DOCK | 2 |
| 5 | 4150035 | PLUG- BOTTOM HP SERIES | 2 |

Fig E.



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 [1]. If using the HD Dock Bracket [4] with Hinge Mooring Plate 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 [2] [3] to either Hinge Mooring Plate [1] as shown. It is best to bolt Mooring Link 1 hole above its natural floating position depending on the watercraft. <i>Do not tighten to the point the bracket clamps the link.</i> |

| ITEM # | PART NUMBER | DESCRIPTION | QTY. |
|--------|-------------|------------------------------|------|
| 1 | 4150170 | EXTENDED HINGE MOORING PLATE | 2 |
| 2 | 4150180 | BRACKET- UPPER RIGID MOORING | 2 |
| 3 | 4150185 | BRACKET- LOWER RIGID MOORING | 2 |
| 4 | 5048001 | HEAVY DUTY DOCK BRACKET | 2 |

Fig F.

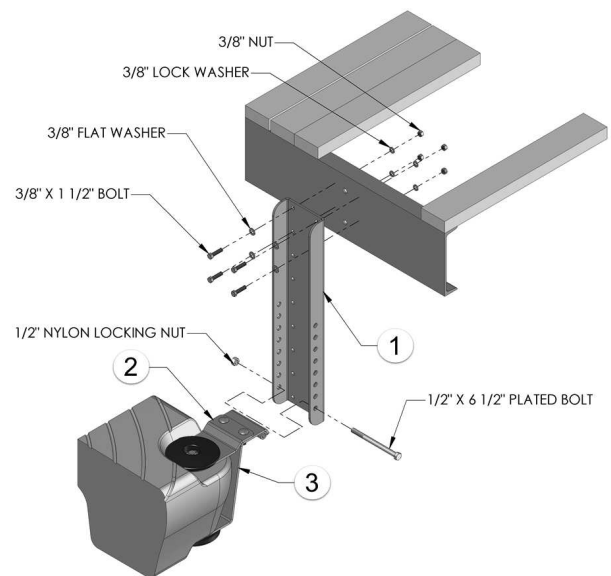


Fig G.

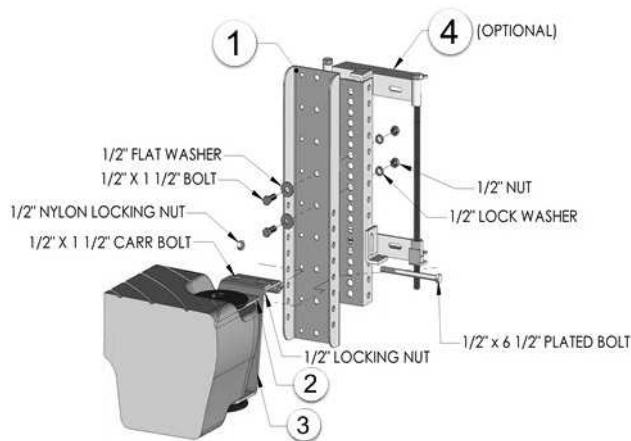
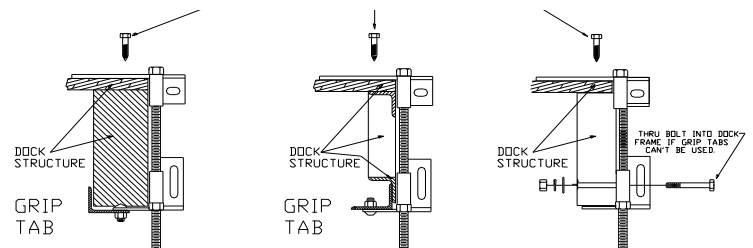


Fig H. (OPTIONAL)

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. |

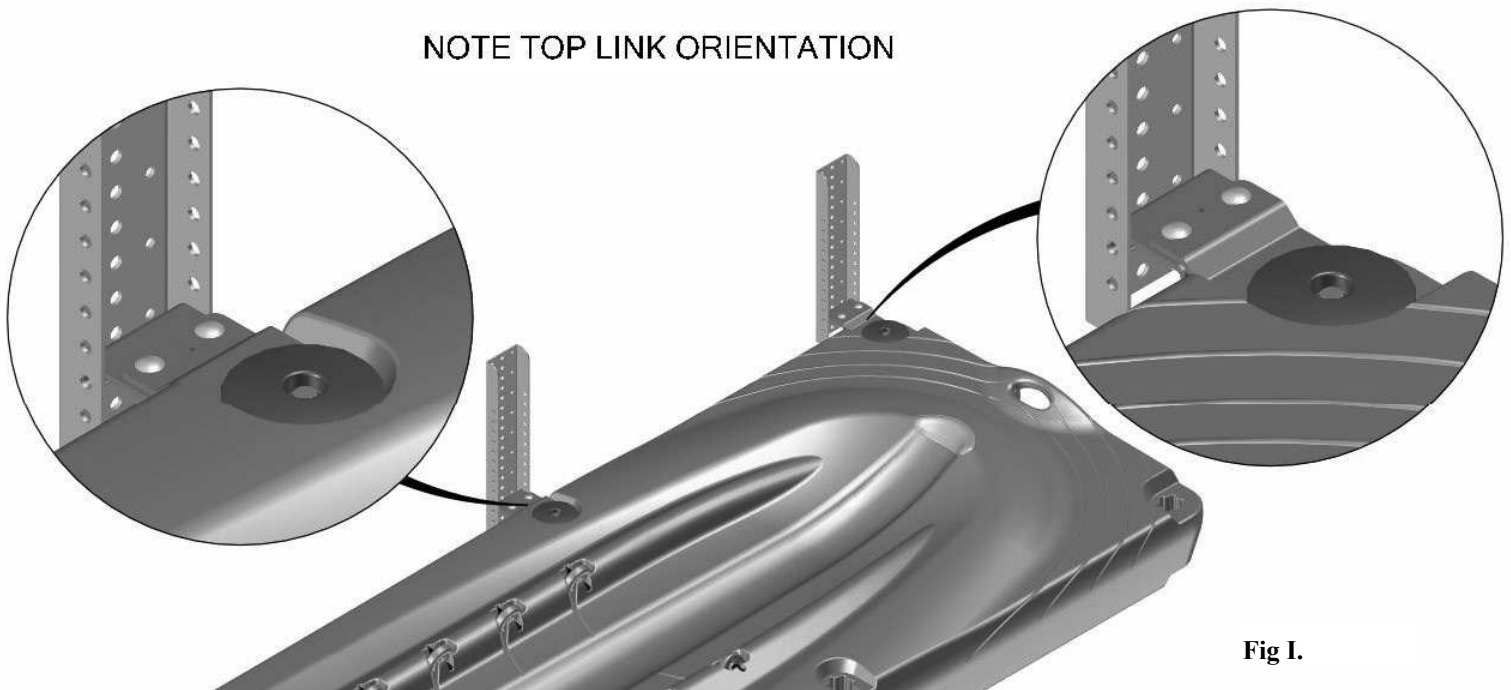
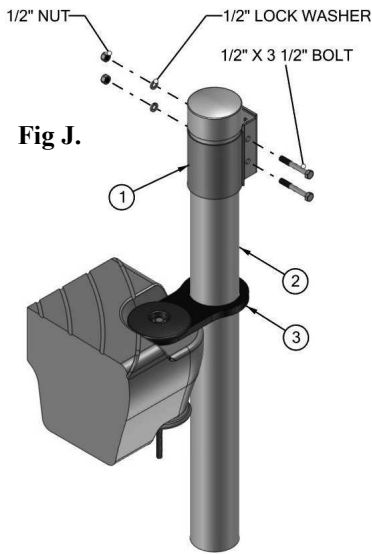


Fig I.

Installation Instructions

Universal Dock— Fixed or Floating Docks



| Step | Procedure |
|------------|--|
| 2.1 Alt | Attach the Universal Dock Bracket [1] 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 [2] through the Universal Dock Bracket [1] and the Mooring Link-Universal [3]. Bolt together as shown and tighten until the PVC Pipe is firmly in place. |

| ITEM # | PART NUMBER | DESCRIPTION | QTY. |
|--------|-------------|---------------------------------------|------|
| 1 | 4150160 | UNIVERSAL DOCK BRACKET FIXED/FLOATING | 2 |
| 2 | 3151300 | 4" SCHEDULE 80 PVC PIPE 48" | 2 |
| 3 | 4150060 | MOORING LINK-FIXED DOCK | 2 |
| 4 | 3151200 | REINFORCING BACK PLATE | 2 |
| 5 | 3151600 | LAGGING PLATE | 2 |
| 6 | 3151500 | RISER PLATE (OPTIONAL) | 2 |
| 7 | 5049000 | HEAVY DUTY DOCK BRACKET (OPTIONAL) | 2 |

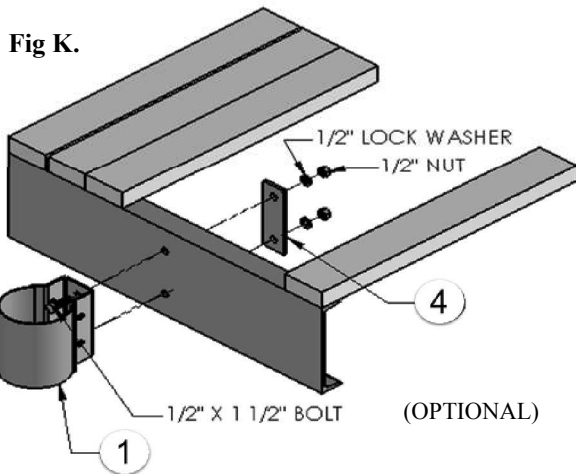


Fig L.

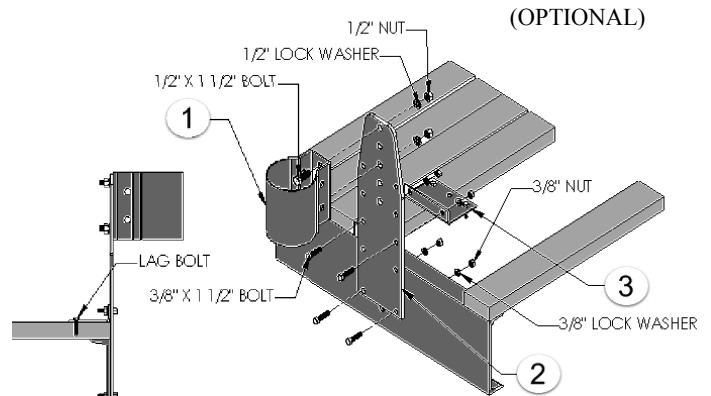
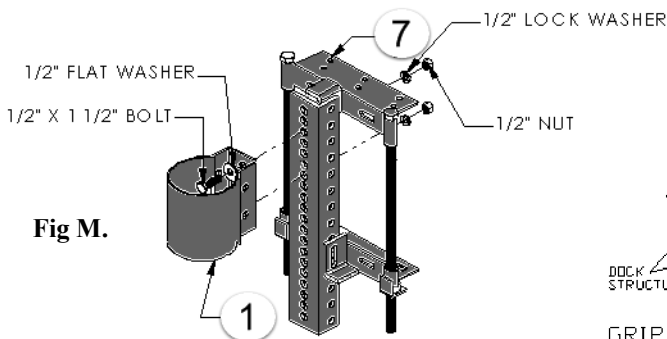
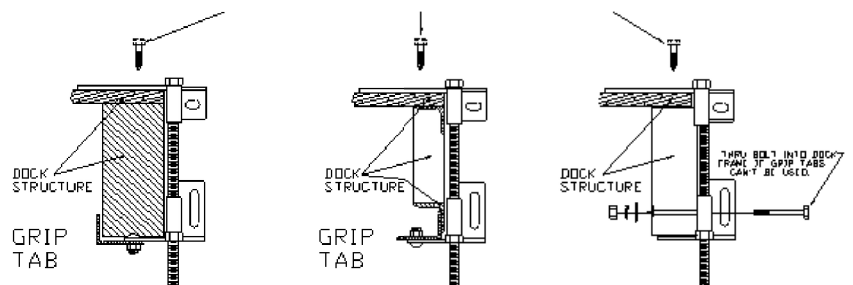


Fig N.



MUST ANCHOR TOP OF BRACKET

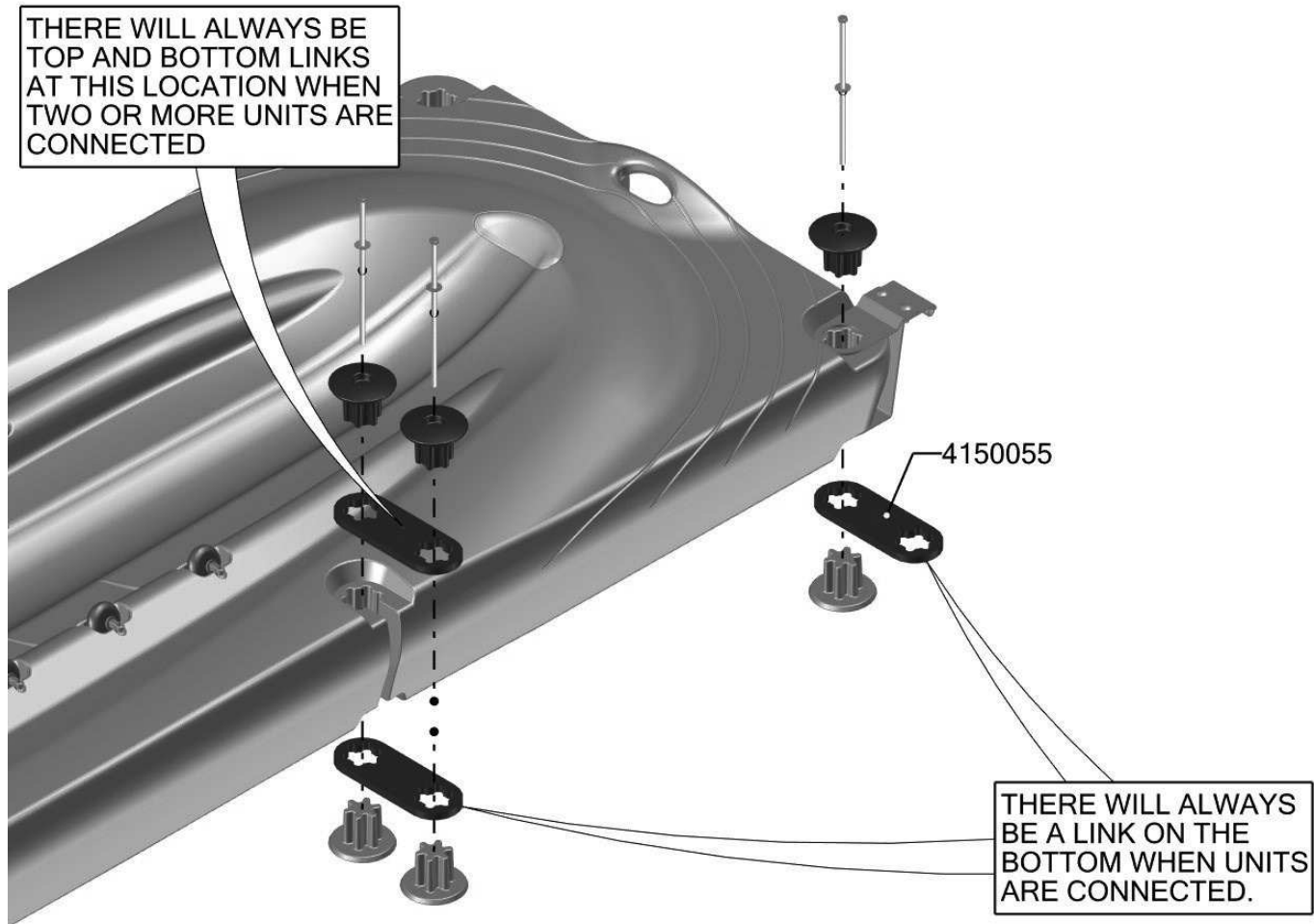


Installation Instructions

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). |

Fig O.



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 HP PRO 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 P.

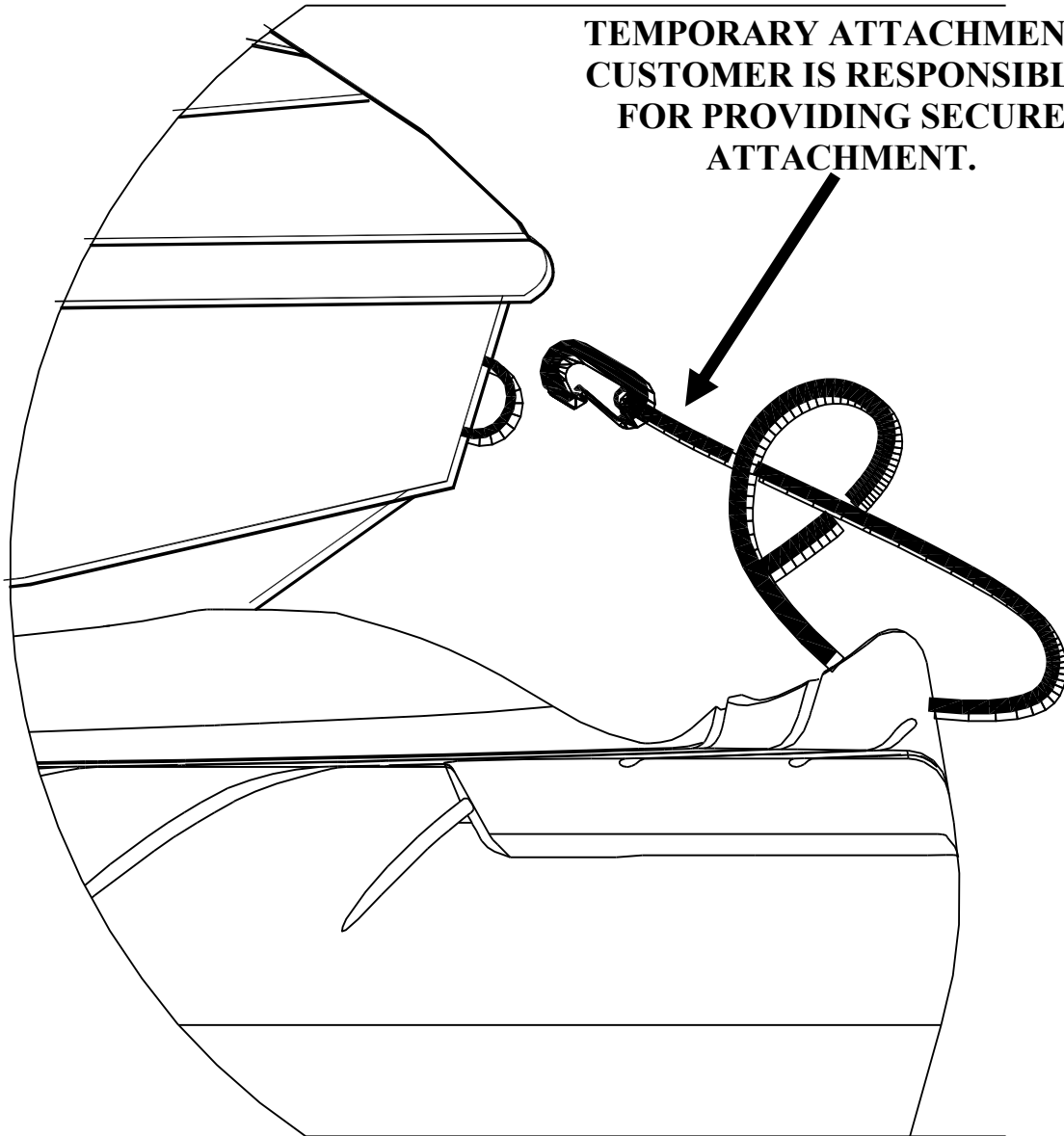


Strap Hook Installation

Fig R.

NOTE:

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



Operating Instructions

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

1. Approach HP PRO 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 HP PRO.
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 HP PRO. 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 HP PRO 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 - Rigid Mooring (6918121) | Part # | Qty. |
|-------------------------------------|---------|------|
| 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" x 1 1/2" | 2090310 | 4 |
| Bolt Hex Hd - 3/8" x 1 1/2" | 2090503 | 8 |
| Bolt Hex Hd - 1/2" x 1 1/2" | 2090507 | 4 |
| Bolt Hex Hd - 1/2" x 6 1/2" | 2090524 | 2 |
| Washer - LW - 3/8" | 2090704 | 8 |
| Washer - LW - 1/2" | 2090705 | 8 |
| Bracket - Upper - Mooring | 4150180 | 2 |
| Bracket - Lower - Mooring | 4150185 | 2 |
| Extended Hinge Mooring Plate | 4150170 | 2 |

| 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 1/2" | 2090507 | 4 |
| Nut - Hex - 1/2"-13 Galv | 2090111 | 8 |
| Washer - FW - 1/2" Galv | 2090209 | 4 |
| Washer - LW - 1/2" Galv | 2090705 | 4 |
| Reinforcing Back Plate | 3151200 | 2 |
| Parts List | 2006000 | 1 |
| Mooring Pipe | 3151300 | 2 |
| Dock Bracket - Fixed | 4150160 | 2 |

| Kit # 4150220/4150221 (Blue/Tan) w/ Universal Dock Std. Mooring | Part # | Qty. |
|--|-----------------|------|
| HP Pro Assembly | 4150305/4150315 | 1 |
| Parts Box - Common | 6918102 | 1 |
| Universal Dock Bracket | 6918110 | 1 |

| Kit# 4150305/4150315 (Blue/Tan) HP Pro Platform Only - No Mooring | Part # | Qty. |
|--|---------------|------|
| HP Pro - Main Body | 200122/200123 | 1 |
| Bow Bumper | 4150081 | 1 |
| In-Line Axle | 4150025 | 10 |
| In-Line Wheel | 4150022 | 10 |
| Axle Spacer | 2090241 | 20 |
| Screw | 4150008 | 28 |
| Bow Roller Axle | 4150016 | 2 |
| Bow Roller Retainer | 4150007 | 4 |
| Bow Roller | 4150017 | 2 |

| Connecting Kit (6918175) | Part # | Qty. |
|--------------------------|---------|------|
| Washer - 1/2" - FW - SS | 2090208 | 2 |
| Connector Stainless Bolt | 4150010 | 2 |
| Connector Top Plug | 4150030 | 2 |
| Connector Bottom Plug | 4150035 | 2 |
| Connecting Link | 4150055 | 3 |
| Parts List | 2006200 | 1 |

| Parts Box - Common (6918102) | Part # | Qty. |
|------------------------------|---------|------|
| Connector Plug Top | 4150030 | 2 |
| Connector Plug Bottom | 4150035 | 2 |
| Strap Hook | 4150085 | 1 |
| Installation Manual | 2003265 | 1 |
| Connector Stainless Bolt | 4150011 | 2 |
| Stainless Steel Flat Washer | 2090208 | 2 |

| Kit# 4150365/4150323 (Blue/Tan) W/ Floating Dock Rigid Mooring | Part # | Qty. |
|---|-----------------|------|
| HP Pro Assembly | 4150305/4150315 | 1 |
| Parts Box - Common | 6918102 | 1 |
| Parts Box - Ridged Mooring | 6918121 | 1 |

