

Metal Craft[®]
**DOCKS &
LIFTS**

The World's Most Durable Boat Piers!

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Assembly and Installation Manual Model 1200-056 PWC LIFT

MCD p/n 1230-01, v1.8

July 14, 2010



A. Parts Description

1. Check the following parts to ensure you have all the items necessary to assemble your new Metal Craft PWC LIFT:

Qty. Packed	Qty Needed	Part No.	Weight
1	1235-01	PWC Lift Parts Box, Sealed (1200-056).	47 lbs.
1	3760-03	26" Winch Wheel, Black, Boxed	10 lbs.
1	1240-01	Lift Side / Post Assembly, Left (1200-056).	20 lbs.
1	1245-01	Lift Side / Post Assembly, Right (1200-056).	20 lbs.
1	1250-01	Frame Assembly, Base, Front (1200-056).	7 lbs.
1	1255-01	Frame Assembly, Base, Rear (1200-056).	9 lbs.
1	1260-01	Cantilever Post Frame, 36"H, Front (1200-056).	13 lbs.
1	1265-01	Cantilever Post Frame, 36"H, Rear (1200-056).	13 lbs.
1	1270-01	Cradle Assembly (1200-056).	25 lbs.
2	1275-01	7'L Black Carpeted 2"x4" Bunks w/4 Installed Aluminum Brackets (1200-056).	18 lbs.
<i>Total Weight</i>			182 lbs.

The "Front" of the LIFT is determined by the two high posts. "Left" and "Right" are determined as you drive onto the lift from the "Rear" of the lift forward to the "Front."

2. Check the Parts Box and identify the following items:

Qty Needed	Part No.	Description
4	1200-01	6"W x 12"L Foot Pads (1200-056).
4	1205-01	2" x 2" x 1/8" x 24"L Foot Pad Legs (1200-056).
2	1280-01	2" x 1/4" x 23-1/2"L Punched, Flat Gusset Brace (1200-056).
1	3756-03	DLB1200A Dutton-Lainson Winch Assm. 1 - #3756-01 DLB1200A Dutton-Lainson Winch w/o Handle,w/Manual 1 - #3757-01 Winch Installation Hardware, Bag, Dutton-Lainson
1	1210-01	Fasteners Kit (Sealed Bag) (1200-056).
1	1215-01	Decals, Sealed Package (1200-056). 1 - #3768-02 1200 lb. Lifting Capacity 1 - #3769-01 Safety Guide 2 - #3769-03 Caution Pinch Point 1 - #3770-02 MCD Model 1200-056
1	1006-01	PWC Med. Pulley Assembly, Sealed Bag 1 - #1005-01 PWC Med. Pulley, w/o Chain Link. 2 - #1005-02 PWC Med. Pulley, w/ Chain Link.
8	1220-01	2" x 1/4" x 12" Punched Bunk Plates (1200-056).
1	1225-01	1/4" x 15'L Galvanized Cable w/ Thimble End.
1	1230-01	Assembly & Installation Manual (1200-056).

3. Check the Fasteners Kit (sealed plastic bag) and identify the following items:

Qty Needed	Part No.	Description	Used
12	3700-01	3/8-16" x 1" Hex Head C/S (ZY)	(8) Front; (4) Rear Frame
6	3700-07	3/8-16" x 3-1/4" Hex Head C/S ZY	(2) Gusset Brace x 2; (2) Winch;
12	3700-08	3/8-16" x 3-1/2" Hex Head C/S ZY	(3) Bunk Brackets x 4
38	3700-11	3/8-16" Nylon Insert Locknut ZY	(8) U-Bolts; (12) Frame; (2) Winch; (12) Deluxe Bunks; (4) Gusset Brace
38	3700-15	3/8" USS Flatwasher ZY	(8) U-Bolts; (2) Winch; (24) Deluxe Bunks; (4) Gusset Brace
4	3706-02	1/2-13" x 3-1/4" Hex Head C/S ZY	(4) Foot Pad
8	3706-07	1/2-13" x 6" Hex Head C/S ZY	(8) Cantilever Leg Bushings
<i>or - substitute the following part:</i>			
8	3706-06	1/2-13" x 5-3/4" Hex Head C/S ZY	(8) Cantilever Leg Bushings
12	3706-08	1/2-13" Nylon Insert Locknut ZY	(8) Cantilever Leg Bushings; (4) Foot Pads
4	3706-13	1/2-13" x 1 3/4" Hex Head C/S Stainless (SS)	(4) Adjustable Leg Stop
4	3706-12	1/2-13" Square Nut (3/4"x3/4") SS	(4) Adjustable Leg Stop
2	3709-08	Round U-Bolt, 3/8-16"x4" x1-3/4"IDx2"T ZY	(2) Pulley Attachment, Post
2	3709-02	Round U-Bolt, 3/8-16"x3-1/4"Lx1-3/4"IDx1-1/2"T ZY	(2) Pulley Attachment, Leg
8	3816-01	Cap Plug, Black, 2-1/4" Sq. (SQR 2 1/4-10-14)	(2) Posts; (4) Cradle; (2) Frame Base Front
2	3816-02	Cap Plug, Black, 2" Sq. (SQR 2-10-14)	(2) Rear Legs
2	3816-03	Cap, Plug, Black, 2" x 3" (RER 2x3-10-14)	(2) Frame Base Rear
1	1000-01	Spinner Knob Assm. (preassembled in sealed bag)	Winch Wheel Knob
		1 - #3765-01 Spinner Knob	
		1 - #3700-06 3/8-16" x 3" HHCS ZY	
		1 - #3700-11 3/8-16" Nylon Insert Locknut ZY	
		1 - #3700-12 3/8-16" Finished Hex Nut ZY	
		3- #3700-15 3/8" USS Flatwasher ZY	

If any problems are found, do not proceed.

Call your Metal Craft Dealer.

Or, reach Metal Craft at **800-989-3625** or at **www.metalcraftlifts.com**

B. Assembly Instructions

Step #1 -

Bolt the following **Frame** items together:

- 1 **1240-01** Lift Side / Post Assembly, Left (1200-056).
- 1 **1245-01** Lift Side / Post Assembly, Right (1200-056).
- 1 **1250-01** Frame Assembly, Base, Front (1200-056).

With these fasteners:

- 8** **3700-01** 3/8-16" x 1" Hex Head C/S (ZY)
- 8** **3700-11** 3/8-16" Nylon Insert Locknut ZY

Do not tighten Bolts -- leave loose until Lift is fully assembled.

Step #2 -

Bolt the following **Frame** item into place at the rear of the Lift:

- 1 **1255-01** Frame Assembly, Base, Rear (1200-056).

Position Frame Assembly with drain holes down. Use these fasteners:

- 4** **3700-01** 3/8-16" x 1" Hex Head C/S (ZY)
- 4** **3700-11** 3/8-16" Nylon Insert Locknut ZY

Do not tighten Bolts -- leave loose until Lift is fully assembled.

Step #3 -

Assemble and Bolt the following **Foot Pad/Leg** items together:

- 4** **1200-01** 6"W x 10"L Foot Pads (1200-056).
- 4** **1205-01** 2" x 2" x 1/8" x 24"L Foot Pad Legs (1200-056).

With these fasteners -- tighten bolts on the Foot Pads:

- 4** **3706-02** 1/2-13" x 3-1/4" Hex Head C/S ZY
- 4** **3706-08** 1/2-13" Nylon Insert Locknut ZY

Step #4 -

Install the (4) **Foot Pad/Legs** onto the Lift. The Front two slide into the upright post from the bottom. The rear two Foot Pad/Legs slide into the open rectangular posts.

Lock the Foot Pad/Legs in place with these fasteners:

- 4** **3706-13** 1/2-13" x 1 3/4" Hex Head C/S Stainless (SS)
- 4** **3706-12** 1/2-13" Square Nut (3/4"x3/4") SS

Insert the Square Nut into the Adjustable Leg Stop welded in place on the Lift Frame. Insert the Bolt and screw it through the Bolt and into the Foot Pad/Leg. Tighten Bolt to secure Leg in place.

Step #5 -

Install the two **Post Gusset Braces:**

- 2** **1280-01** 2" x 1/4" x 23-1/2"L Punched, Flat Gusset Brace (1200-056).

Position with one end to upright Post and other to Frame Base. Use these fasteners:

- 4** **3700-07** 3/8-16" x 3-1/4" Hex Head C/S ZY
4 **3700-11** 3/8-16" Nylon Insert Locknut ZY
4 **3700-15** 3/8" USS Flatwasher ZY

Do not tighten Bolts -- leave loose until Lift is fully assembled.



Step #6 -

Install the bottom of the **Front Cantilever Post Frame:**

- 1** **1260-01** Cantilever Post Frame, 36"H, Front (1200-056).

Position with drilled U-Bolt holes at top. Use these fasteners:

- 2** **3706-06** 1/2-13" x 5-3/4" Hex Head C/S ZY
2 **3706-08** 1/2-13" Nylon Insert Locknut ZY

Do not tighten Bolts -- leave loose until Lift is fully assembled.

Step #7 -

Install the bottom of the **Rear Cantilever Post Frame**:

1 **1265-01** Cantilever Post Frame, 36"H, Rear (1200-056).

Use these fasteners:

2 **3706-06** 1/2-13" x 5-3/4" Hex Head C/S ZY

2 **3706-08** 1/2-13" Nylon Insert Locknut ZY

Do not tighten Bolts -- leave loose until Lift is fully assembled.

Step #8 -

Install the **Cantilever Assembly** on top of the two Cantilever Posts installed in Steps #5 and #6 (note: drain holes are on bottom):

1 **1270-01** Cradle Assembly Top (1200-056).

Position Cantilever Assembly with drain holes down. Use these fasteners:

4 **3706-06** 1/2-13" x 5-3/4" Hex Head C/S ZY

4 **3706-08** 1/2-13" Nylon Insert Locknut ZY

Do not tighten Bolts -- leave loose until Lift is fully assembled.

Step #9 -

Tighten Bolts in the following order:

- Bottom Frame.
- Gusset Braces.
- Legs.
- Lower Cantilever Post Hinges (snug only - do not over tighten or hinges will bind).
- Upper Cantilever Post Hinges (snug only - do not over tighten or hinges will bind).

Step #10 -

Install the following two **Pulleys** with Chain Link on the **short U-Bolts**:

2 **1005-02** PWC Med. Pulley, with Chain Link.

4 **3700-11** 3/8-16" Nylon Insert Locknut ZY

4 **3700-15** 3/8" USS Flatwasher ZY

2 **3709-02** Round U-Bolt, 3/8-16"x3-1/4"Lx1-3/4"IDx1-1/2"T ZY

onto the front face of the **Front Cantilever Post Frame**.

1 **1260-01** Cantilever Post Frame, 36"H, Front (1200-056).

Install the U-Bolts with the round part facing forward. Use the predrilled holes to locate the U-Bolts. Hang the Pulleys on the U-Bolts by the attached Chain Link.

Step #11-

Install the **Galv. Cable Thimble End** on a **long U-Bolt**:

- 1 **1225-01** 1/4" x 15'L Galv. Cable w/ Thimble End (1200-056).
 - 2 **3700-11** 3/8-16" Nylon Insert Locknut ZY
 - 2 **3700-15** 3/8" USS Flatwasher ZY
 - 1 **3709-08** Round U-Bolt, 3/8-16"x4"L x1-3/4"IDx2"T ZY
- or - substitute the following part:*
- 1 **3709-03** Round U-Bolt, 3/8-16"x5" x1-3/4"IDx2"T ZY

Install onto the rear face of the **Right Post Assembly**

- 1 **1245-01** Lift Side / Post Assembly, Right (1200-056).

Install the U-Bolt with the round part facing rearwards. Use the predrilled holes to locate the U-Bolt to the right front upright Frame Post Assembly.

Step #12 -

Install the following **Pulley** without Chain Link on a **long U-Bolt**:

- 1 **1005-01** PWC Med. Pulley, without Chain Link.
 - 2 **3700-11** 3/8-16" Nylon Insert Locknut ZY
 - 2 **3700-15** 3/8" USS Flatwasher ZY
 - 1 **3709-08** Round U-Bolt, 3/8-16"x4"L x1-3/4"IDx2"T ZY
- or - substitute the following part:*
- 1 **3709-03** Round U-Bolt, 3/8-16"x5" x1-3/4"IDx2"T ZY

onto the rear face of the **Left Post Assembly**

- 1 **1240-01** Lift Side / Post Assembly, Left (1200-056).

Install the U-Bolt with the round part facing rearwards. Use the predrilled holes to locate the U-Bolt to the left front upright Frame Post Assembly.

Step #13 -

Install the **Winch**:

- 1 **3755-02** DLB1200A Dutton-Lainson Winch w/o Handle, w/Manual.
- 2 **3700-07** 3/8-16" x 3-1/4" Hex Head C/S ZY
- 2 **3700-11** 3/8-16" Nylon Insert Locknut ZY
- 2 **3700-15** 3/8" USS Flatwasher ZY

onto the rear face of the **Left Post Assembly, at the top**, facing the rear of the lift.

- 1 **1240-01** Lift Side / Post Assembly, Left (1200-056).

Note: Optionally, the Winch can be installed on the Right Post. Change Steps #10 and #11 to reverse locations of Galvanized Cable (to Left Post) and Pulley (to Right Post).

Step #14 -

Install the **Black Winch Wheel**:

- 1 **3760-03** 26" Winch Wheel, Black, Boxed
- 1 **3757-01** Winch Installation Hardware, Bag, Dutton-Lainson

Follow instructions provided with Winch

Step #15 -

Install the **Spinner Knob** on the Winch Wheel:

- 1 **1000-01** Spinner Knob Assm. (preassembled in sealed bag)
 - 1 - #3765-01 Spinner Knob
 - 1 - #3700-06 3/8-16" x 3" HHCS ZY
 - 1 - #3700-11 3/8-16" Nylon Insert Locknut ZY
 - 1 - #3700-12 3/8-16" Finished Hex Nut ZY
 - 3 - #3700-15 3/8" USS Flatwasher ZY

Place a washer on each side of hole. Tighten Locknut.

Step #16 -

Install the **Galvanized Cable** through the three Pulleys. Attach Cable to **Winch Drum** using the following parts:

- 1 **3757-01** Winch Installation Hardware, Bag, Dutton-Lainson

Follow instructions provided with Winch

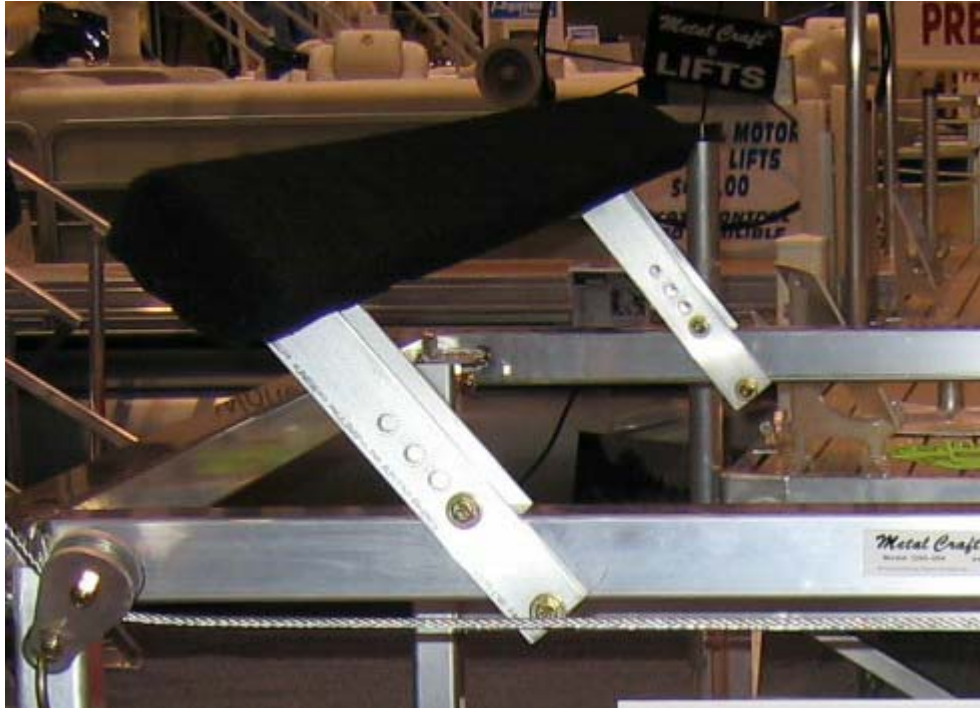


Step #17 -

Install **Bunks** using the following parts:

8	1220-01	2" x 1/4" x 12" Punched Bunk Plates (1200-056).
2	1275-01	7'L Black Carpeted 2"x4" Bunks w/4 Installed Aluminum Brackets (1200-056).
12	3700-08	3/8-16" x 3-1/2" Hex Head C/S ZY
12	3700-11	3/8-16" Nylon Insert Locknut ZY
24	3700-15	3/8" USS Flatwasher ZY

Install Bunk Plates to bottom of Carpeted Bunks. Sandwich Bunk Plates to Cradle.



Step #18 -

Install Black Plastic Plugs in (2) Posts, (4) Cradle, (2) Frame Base Front:

8	3816-01	Cap Plug, Black, 2-1/4" Sq. (SQR 2 1/4-10-14)
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Install Black Plastic Plugs in (2) Frame Base Rear:

2	3816-03	Cap, Plug, Black, 2" x 3" (RER 2x3-10-14)
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Caps are provided for the (2) Rear Legs. Cut inside corners of the caps to fit the rounded shape of the leg extrusion. Installation is optional:

2	3816-02	Cap Plug, Black, 2" Sq. (SQR 2-10-14)
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Step #19 -

Install the **Labels**.

- 1** **1215-01** Decals, Sealed Package (1200-056).
 - 1 - #3768-02 1200 lb. Lifting Capacity
 - 1 - #3769-01 Safety Guide
 - 2 - #3769-03 Caution Pinch Point
 - 1 - #3770-02 MCD Model 1200-056

Place the “*Lifting Capacity*” , “*Safety Guide*” and “*MCD Model*” labels on post close to Winch. Place the “*Caution Pinch Point*” labels on left and right upright Posts where Cradle meets the Post in the upright raised position.

Step #20 -

Test **operation** of LIFT. Make adjustments as necessary until Cradle raises and lowers easily.

Adjust Bunks side-to-side and up/down to fit PWC.

Adjust front Legs to desired height then adjust rear Legs to level lift.

End of Assembly and Installation.

Limited Warranty - LIFTS

Metal Craft Docks Inc. warrants its **Metal Craft**® Boat Lift and PWC Lift products to be free of defects in materials or workmanship under normal and proper usage (from date of purchase) for:

- **15 years** - All aluminum parts and aluminum welds.
- **2 years** - All other components (e.g., cables, pulleys, bunks, fasteners, etc.).

Winches, Canopies, etc. under Warranty provisions from the original manufacturer.

Metal Craft Docks Inc. is not be responsible for removal or installation charges incurred to facilitate repairs or replacement.

Should a breach of this warranty occur, Metal Craft Docks will either, in its sole discretion, provide a replacement part or will repair or replace the lift upon return of the product to the place of purchase by customer.

This warranty does not cover any damage resulting from the mishandling or misuse of the products or for any damages resulting from storms, high winds or ice. IN NO EVENT SHALL Metal Craft Docks Inc. BE RESPONSIBLE FOR CONSEQUENTIAL DAMAGES.

This warranty is transferable to subsequent owners of the **Metal Craft**® LIFT system.

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.