

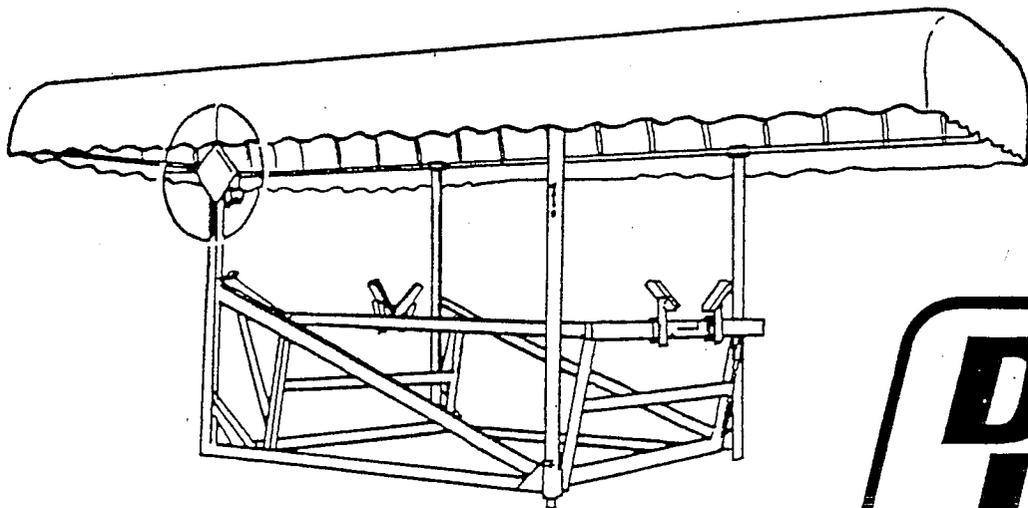
# **DAKA**

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# **INSTRUCTION MANUAL FOR ALUMINUM BOAT LIFT MODELS AL1484, AL14108, AL1684, AL2096, AL25108, AL2596, AL28108, AND AL36108**



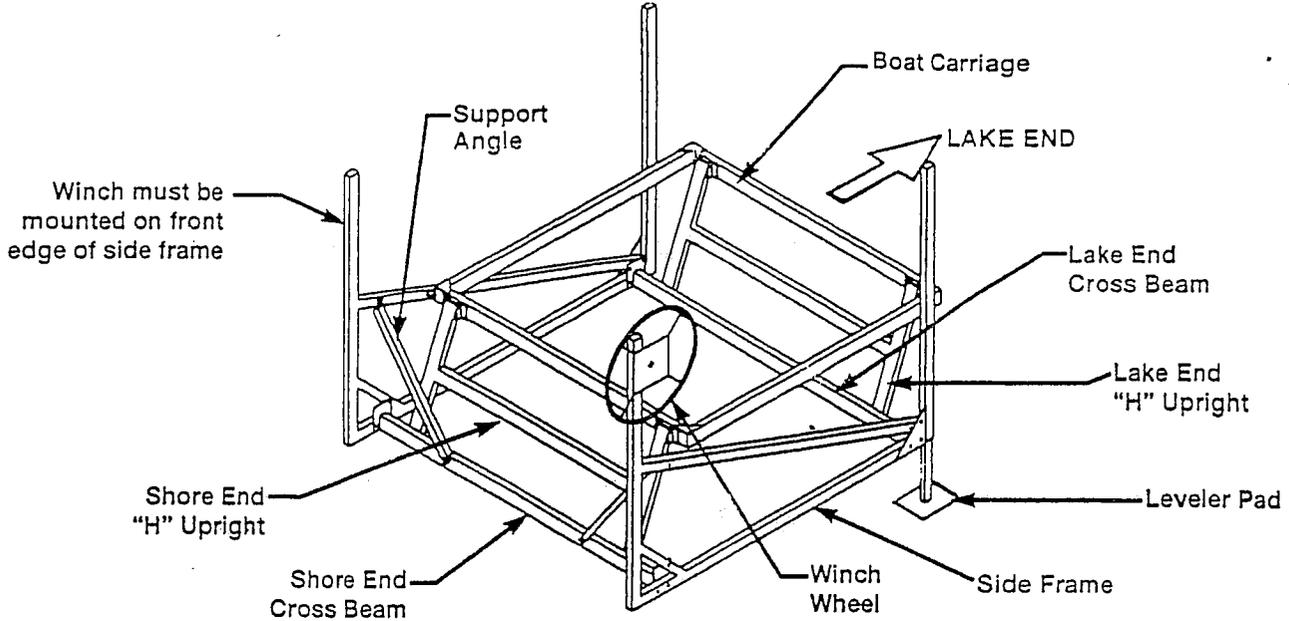


FIGURE A (SHORE END)



FIGURE B (LAKE END)

- STEP 1** Insert all four leveler pads (Key #1) into side frames (Key #2). After inserting legs into side frames, install four 1/2" x 1" set bolts (Key #3) and loosely tighten bolt.
- STEP 2** Connect shore end cross beam (Key #4, Figure A) to side frames (Key #2, Figure A) using six 3/8" x 3-1/4" bolts, six 3/8" lock nuts and twelve 3/8" flat washers. Making sure shackles (Key #6, Figure A) on cross beams (Key #4, Figure A) are facing towards the lake end of lift and that holes in the shackles (Key #6, Figure A) are offset towards the bottom of the cross beam. Note location of bolt in shackle (Key #6, Figure A).
- STEP 3** Connect lake end cross beam (Key #5, Figure B) to side frames (Key #2, Figure B) using eight 3/8" x 3-1/4" bolts, eight 3/8" lock nuts, and sixteen 3/8" flat washers, making sure shackles (Key #6, Figure B) on cross beams (Key #5, Figure B) are facing towards the lake end of the lift and that holes in the shackles (Key #6, Figure B) are offset towards the bottom of the cross beam. Note location of bolt in shackle (Key #6, Figure B).
- STEP 4** Attach shore end "H" upright (Key #7, Figure A) to shackle (Key #6, Figure A) on shore end cross beam (Key #4, Figure A) using two 7/16" x 4-1/2" bolts, and two 7/16" lock nuts, no washers. Do not over tighten bolts. "H" upright should move freely.
- STEP 5** Attach lake end "H" upright (Key #8, Figure B) to shackle (Key #6, Figure B) on lake end cross beam (Key #5, Figure B) using two 7/16" x 4-1/2" bolts, and two 7/16" lock nuts, no washers. Do not over tighten bolts. "H" upright should move freely.

**NOTE:** Always assemble lift on level surface. All 3/8" bolts used to connect cross beam to side frames will receive two 3/8" flat washers. One washer at head of bolt and one washer by nut. Shackles (Key #6, Figures A & B) on cross beam always face towards the lake end of the lift.

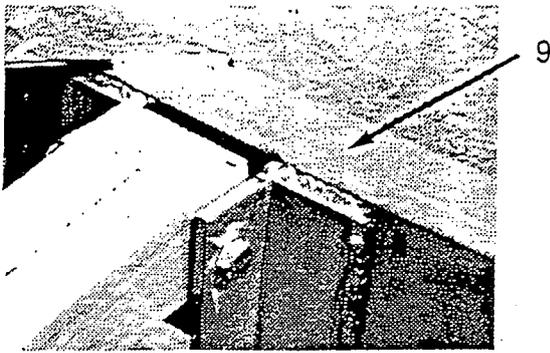


FIGURE C

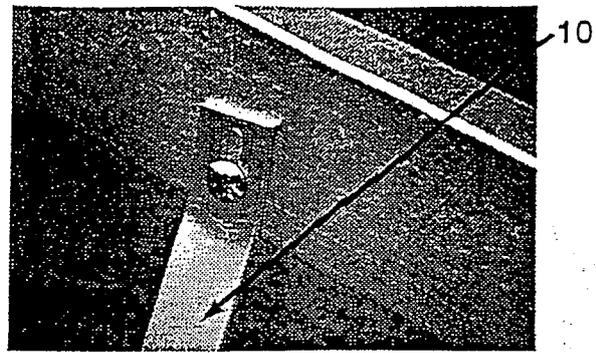


FIGURE D

**STEP 6**

Attach boat carriage (Key #9, Figure C) to "H" uprights using four 7/16" x 4-1/2" bolts and four 7/16" lock nuts, no washers. Rubber pad on boat carriage is to be towards the lake end of the lift. Do not over tighten these bolts. Once boat carriage is fully attached to both "H" uprights, manually lift boat carriage to make sure carriage moves freely.

**STEP 7**

Attach the top of the support angles (Key #10, Figure D) to side frame using two 3/8" x 2-1/2" or two 3/8" x 3" carriage bolts, two 3/8" lock nuts, two 3/8" flat washers. Attach the bottom of the support angles to the cross beam using two 3/8" x 3-1/4" bolts, two 3/8" lock nuts, two 3/8" flat washers.

**STEP 8**

Attach two pulleys (Key #11, Figure E) to boat carriage (Key #12, Figure E) using two 3/8" quick links (Key #13, Figure E). **NOTE:** When installing quick links, keep nut towards the inside of lift.

**STEP 9**

On the side frame that the winch is going to be mounted, attach brass sheave with keeper bracket. (Key #14, Figure F). **NOTE:** Put one flat washer on both sides of brass sheave and one flat washer next to nut on outside of frame. Do not overtighten this bolt.

**STEP 10**

On side frame opposite of winch, attach keeper bracket (Key #15, Figure E). This is where the cable will be tied off.

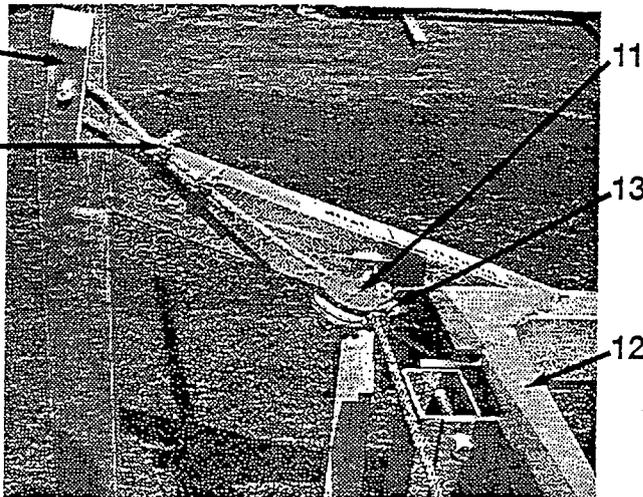


FIGURE E

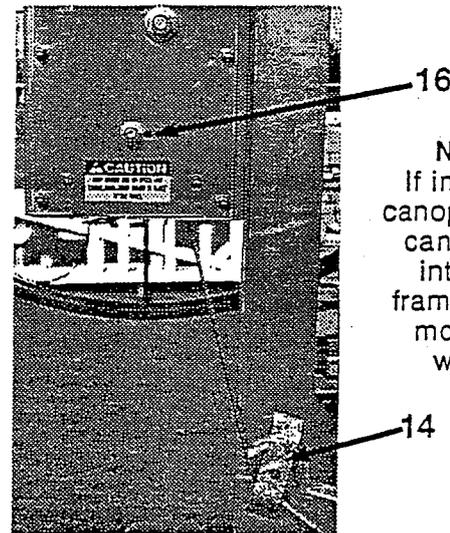


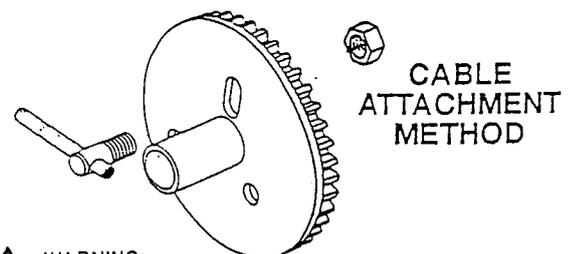
FIGURE F

**NOTE:**  
If installing canopy, install canopy leg into side frame before mounting winch.

**NOTE:**  
Always place U-bolt over dead end of cable, and clip saddle over live end of cable.

**STEP 11**

Attach cable to winch. If you are assembling a Model AL1484, AL14108, AL1684, or AL2096, feed one end of cable through hole in winch drum until cable stop reaches drum. (Ref: Figure G). For Models AL2596, AL25108, AL28108, AL36108. See Step 14.



**CABLE ATTACHMENT METHOD**

**WARNING:**  
Keep at least 3 turns of cable on winch drum at all times.

FIGURE G

## **STEP 12**

**MOUNT WINCH TO SIDE FRAME.** NOTE: *Winch always gets mounted on front edge of the side frame.* (See FIGURE F for details). When mounting winch on Models AL1434 and AL14108, use two 3/8" x 3-1/2" bolts, two 3/8" lock nuts, and four 3/8" flat washers. When mounting winch on AL1684, AL2096, AL25108 and AL28108, use two 3/8" x 4" bolts, two 3/8" lock nuts, and four 3/8" flat washers. When mounting winch on AL36108, use two 3/8" x 5" bolts, two 3/8" lock nuts, and four 3/8" flat washers.

## **STEP 13**

Attach winch wheel to winch, carefully follow the "assembly" instructions found on Dutton Lanson Company instruction page. Make sure to install 5/16" x 3/4" bolt with 5/16" flat washer and 5/16" lock washer into the end of the shaft where the winch wheel is attached.

## **STEP 14**

**ATTACHING CABLE TO CUSTOM WINCH.** (Found on Models AL2596, AL25108, AL28108 and AL36108). On the back side of the winch you will find a hole (Key #16, Figure F). Through this hole you can get at a set screw that, when tightened, will hold the cable to the drum. If the set screw is not visible, turn the winch wheel until it appears. Once you have located the set screw, insert the end of the cable into the hole in the drum. Then, using the 5/32" size allen wrench that is provided, tighten the set screw onto the cable.

## **STEP 15**

Thread cable through pulleys and back to opposite side frame. Tie cable off using two cable clamps. (See Key #17, FIGURE E). NOTE: *Always place U-bolt over dead end of cable, and clip saddle over live end.*

## **STEP 16**

Once lift is fully assembled, double check all bolts. Lower and raise lift fully, making sure the boat carriage hits stops. Check top bolt on bunks, make sure that they are loose enough to allow the bunks to pivot. Put lift in lake and level with adjustable leveler pads and tighten set bolts securely. After initial load, retighten cable clamps.

## **CAUTION:**

**DO NOT EXCEED MAXIMUM LIFTING CAPACITY !!**

## **CAUTION:**

**DO NOT LET CHILDREN PLAY ON OR AROUND LIFT!!**

## **BOAT LIFT INSTRUCTIONS**

**BOAT LIFT SHOULD BE PLACED IN A MINIMUM OF 30" OF WATER AT LAKE END OF THE LIFT.**

### **— MAINTENANCE —**

Before installing lift in the spring and after removing lift in the fall, lightly oil cables and pulleys. Check all cables and bolts for deterioration, replace if necessary.

**NOTE:** If winch wheel is hard to turn when trying to lower lift, place hand on winch wheel and quickly jerk wheel in a counter clockwise direction to loosen brake mechanism.

# DAKA PARTS LIST FOR LIFTS

## \*\*Parts List for AL654 P.W.C.\*\*

Qty. Description

2- Side Frames  
1- Front Cross Brace  
1- Boat Carriage  
2- "H"-Uprights  
4- Mounting Brackets  
2- Wood 2" x 4" x 6'  
2- Leveler Legs  
1- Winch D.L. 800lb Cap. W/ Handle  
14- 3/16" Air Craft Cable  
3- Pulley Blocks (2- w/ chain Links)

52- 3/8" Flat Washers  
14- 3/8" Lock Nuts  
6- 3/8" x 3" Bolts  
4- 3/8 x 5 1/2" Bolts  
4- 3/8" x 5" Bolts  
2- 1/2" x 1" Set bolts  
1- 3/16" Cable Clamps  
4- 3/8" x 2 1/2" Carriage Bolts  
4- 3/8" Nuts

## \*\*Parts List for AL1484\*\*

Qty. Description

2- Side Frames  
2- Bottom Cross Beams  
2- "H" - Uprights  
1- Carriage  
2- Angle Braces  
4- Bunks- Adjustable in and out only  
2- Levels legs (2- 24" long)  
1- Winch Wheel

1- Winch (1200 LB DL.)  
22'- 3/16" Air Craft Cable  
1- 5/16" x 3/4" Bolt  
1- 5/16" Flat Washers  
1- Bushing  
1- Spring

2- Galvanized Keeper Brackets  
1- 2 1/2" Brass Sheave  
2- 3/8" x 4" Bolts  
2- 3/8" Lock Nuts  
4- 3/8" Flat Washers  
2- Pulley Blocks

18- 3/8" Flat Washers  
10- 3/8" Lock Nuts  
6- 3/8" x 3" Bolts  
1- 3/8" x 3 1/2" Bolts  
1- 3/8" x 2 1/2" Carriage Bolts  
1- 1/2" x 1" Set Bolts  
1- 7/16" x 4 1/2" Bolts  
1- 7/16" Lock Nuts  
1- 3/16" Cable Clamps  
1- Quick Links

## \*\*Parts List for AL14108\*\*

Qty. Description

2- Side Frames  
2- Bottom Cross Beams  
2- "H" uprights  
1- Carriage  
2- Angle Braces  
2- Leveler Pads (2 -24" Long.)  
8- Mounting Tubes  
1- Winch Wheel  
2- Wood 2" x 4" x 10'  
2- Wood 2" x 6" x 10'

1- Winch (1200 LB DL.)  
23'- 3/16" Air Craft Cable  
1- 5/16" x 3/4" Bolt  
1- 5/16" flat Washer  
1- Bushing  
1- Spring  
1- Cable Retainer

2- Galvanized Keeper Brackets  
1- 2 1/2" Brass Sheave  
2- 3/8" x 4" Bolts  
2- 3/8" Lock Nuts  
4- 3/8" Flat Washers  
2- Pulley Blocks

38- 3/8" Flat Washers  
20- 3/8" Lock Nuts  
16- 3/8" x 3" Bolts  
2- 3/8" x 3 1/2" Bolts  
2- 3/8" x 2 1/2" Carriage Bolts  
2- 2 1/2" x 1" Set Bolts  
8- 7/16" x 4 1/2" Bolts  
8- 7/16" Lock Nuts  
2- 3/16" Cable Clamps  
2- Quick Links  
8- 3/8" X 4" Carriage Bolts  
16- "U" bolts  
48- 3/8" nuts  
16- Mounting Plate

## \*\*Parts List for AL1684 & AL2096 & AL2596\*\*

Qty. Description

2- Side Frames  
2- Bottom Cross Beams  
2- "H" Uprights  
1- Carriage  
4- Bunks - Adjustable in and out only (AL1684 & AL2096)  
4- Bunks (2 adjustable in and out - 2 adjustable in and out and up and down.) (AL2596 only)  
2- Angle Braces  
4- Levels Legs (2 - 24" Long . 2 - 36" Long.)  
1- Winch Wheel

1- Winch-1200 LB DL on AL1684 / 1500 LB DL on AL2096 / Custom chain drive winch used on AL2596  
22'- 3/16" Air Craft Cable on AL1684  
22'-1/4" Air Craft Cable on AL2096/ AL2596  
1- 5/16" x 3/4" Bolts  
1- 5/16" Flat Washers  
1- Bushing  
1- Spring  
1- Cable Retainer not on AL2596

2- Galvanized Keeper Brackets  
1- 2 1/2" Brass Sheave  
2- 3/8" x 4" Bolts  
2- 3/8" Lock Nuts  
4- 3/8" Flat Washers  
2- Pulley Blocks  
38- 3/8" Flat Washers  
20- 3/8" Lock Nuts  
16- 3/8" x 3 1/4" Bolts  
2- 3/8" x 3" Carriage Bolts  
4- 1/2" x 1" Set Bolts  
8- 7/16" x 5" Bolts  
8- 7/16" Lock Nuts  
2- Quick Links  
2- 3/16" Cable Clamps  
2- 3/8" x 4" Bolts

## \*\*Parts List for AL25108 & AL28108\*\*

Qty. Description

2- Side Frames  
2- Bottom Cross Beams  
2- "H" Uprights  
1- Carriage  
4- Bunks (2 adjustable in and out only - 2 adjustable in and out and up and down.)  
2- Angle Braces  
4- Leveler Pads (2 - 24" Long . 2 - 36" Long.)  
1- Winch Wheel

1- Winch ( Custom Chain Drive 2500 LB.)  
23'- 1/4" Air Craft Cable  
1- 5/16" x 3/4" Bolt  
1- 5/16" Lock Washer  
1- 5/16" Fender Washer

2- Galvanized Keeper Brackets  
1- 2 1/2" Brass Sheave  
2- 3/8" x 4" Bolts  
2- 3/8" Lock Nuts  
4- 3/8" Flat Washers  
2- Pulley Blocks

38- 3/8" Flat Washers  
20- 3/8" Lock Nuts  
16- 3/8" x 3 1/4" Bolts  
2- 3/8" x 3" Carriage Bolts  
4- 1/2" x 1" Set Bolts  
8- 7/16" x 5" Bolts  
8- 7/16" Lock Nuts  
2- Quick Links  
2- 1/4" Cable Clamps  
2- 3/8" x 4" Bolts

## \*\*Parts List for AL36108\*\*

Qty. Description

2- Side Frames  
2- Bottom Cross Beams  
2- "H" Uprights  
1- Carriage  
4- Bunks (2 - Adjustable in and out only - 2 Adjustable in and out and up and down.)

2- Angle Braces  
4- Leveler Pads (2 - 24" Long . 2 - 36" Long.)  
1- Winch Wheel

1- Winch ( Custom Chain Drive 2500 LB.)  
23'- 1/4" Air Craft Cable  
1- 5/16" x 3/4" Bolt  
1- 5/16" Lock Washer  
1- 5/16" Fender Washer

2- Galvanized Keeper Brackets  
1- 2 1/2" Brass Sheave  
2- 3/8" x 4" Bolts  
4- 3/8" Flat Washers  
2- Pulley Blocks  
46- 3/8" Flat Washers  
26- 3/8" Lock Nuts  
20- 3/8" x 3 1/4" Bolts  
2- 3/8" x 3" Carriage Bolts  
4- 1/2" x 1" Set Bolts  
8- 7/16" x 6" Bolts  
8- 7/16" Lock Nuts  
2- Quick Links  
2- 1/4" Cable Clamps  
2- 3/8" x 5" Bolts  
3- 3/8" X 4 1/2" Bolts  
4- Aluminum Spacers

## LIMITED WARRANTY

DAKA Corporation warrants its boat docks and boat lift components purchased new by the original owner to be free of defects in material or workmanship, from the date of sale for the periods of time set forth below:

### BOAT LIFTS

Five years on aluminum construction.

Three years on lift winch.

One year on canopy fabric, bolts, bunk material, and cables except that there is no warranty on the finish for the wheel-crank.

There is no warranty on components which their own manufacturer's warranty, wherein that warranty apply.

### BOAT DOCKS

Five years on aluminum and steel construction.

One year on the other components.

No warranty on finish of dock or wood decking.

DAKA will at its option repair or replace defective components deemed defective by DAKA, at no charge for parts and labor, and will pay freight charges for one-way shipment for warranty claims in the first year. In the second and subsequent years where applicable, customer will pay freight both ways. DAKA is not responsible for removal, dismantling or reinstallation cost.

This warranty is void if the boat lift or dock is used in other than normal residential service, or if the boat lift or boat dock is damaged due to incorrect assembly, misuse, neglect, misapplication, accident, improper installation, overloading, or improper selection of our product.

For services under this warranty, contact selling dealer or DAKA Corporation, Customer Services Department, Industrial Park, Route 3, Box 65F, Pine City, Minnesota 55063; Telephone (320)629-6737

Implied warranties including that of merchantability are expressly limited in duration of this warranty. DAKA Corporation disclaims any liability for incidental or improper selection, removal, use, misuse, misapplication, neglect or improper selection of our product. Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages so this limitation and exclusion may not apply to you.

This warrant gives you specific legal rights, and you may also have other rights which vary from state to state.

This is our exclusive written warranty.

Effective 01/99