



DBH-150

BANNER HOIST OPERATIONS & MAINTENANCE MANUAL

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Daktronics Automated Rigging System

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DBH-150 Banner Hoist
Operations & Maintenance Manual
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01 SAFETY INFORMATION

Warnings, Cautions, and Notes

All Warning notes contained in this manual indicate information that may endanger personnel.

WARNING



Before working on any of the Daktronics hoists, the main electrical disconnect must be turned off and locked out according to U.S.A. OSHA regulations 29 CFR 1910.147 or Australian regulations AS 1418.1 Section 8.10.3.4.

The Daktronics rigging system is designed to raise and lower equipment under the rated hoist capacity **ONLY**.

Only trained and authorized personnel should be permitted to operate the Daktronics system. The unauthorized use, alteration, or use for purposes other than those for which it was designed may cause injury to persons, damage to the equipment, or create conditions which could lead to fatalities. All proper safety considerations must be observed. While operating the Daktronics rigging system, a spotter **must be used** in conjunction with the user at all times. The spotter must have a clear view of all moving elements while maintaining contact with the user. If an unsafe situation occurs, the spotter must immediately signal the user to halt all movements until the environment is cleared of any person or obstruction.

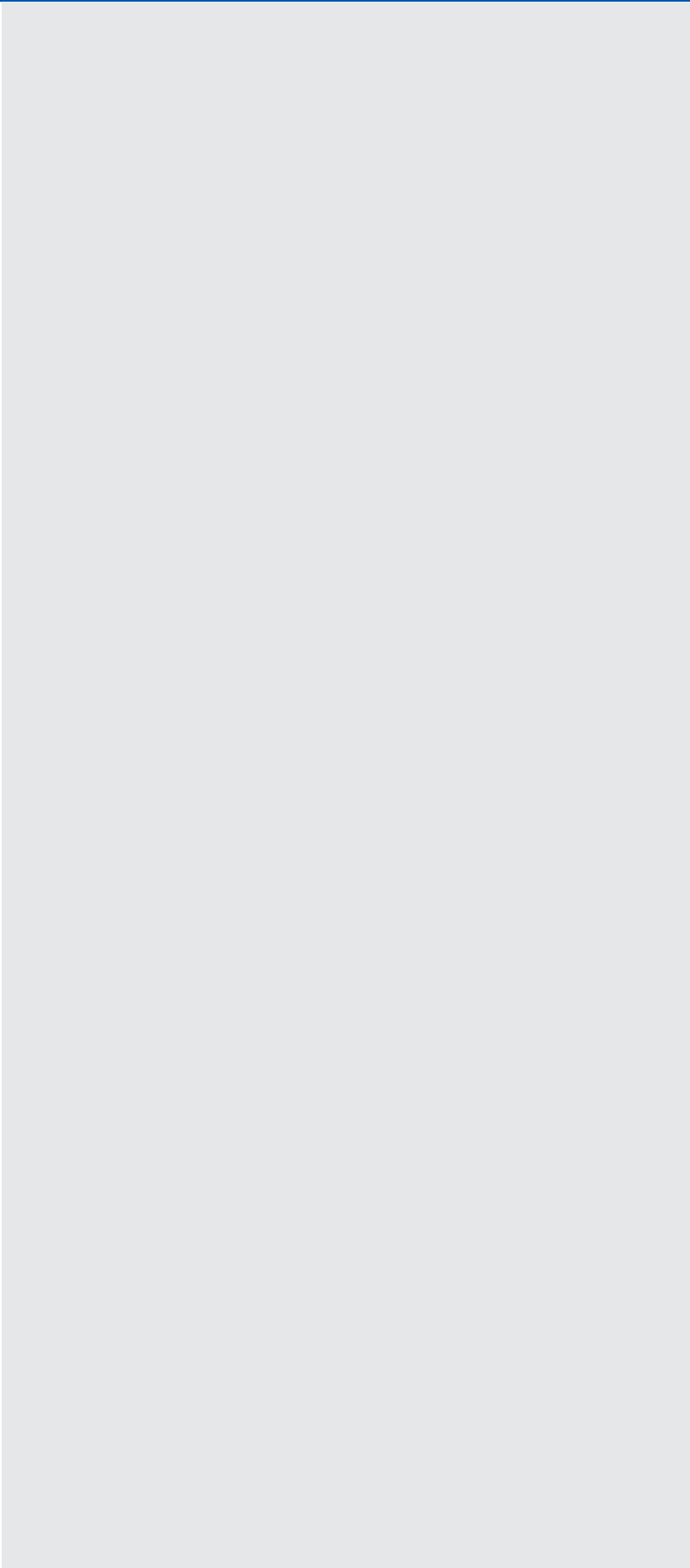
All installation and maintenance involving the Daktronics drive unit itself or the main electrical control cabinets will require trained personnel. Simple daily maintenance activities of the workstation may be carried out by the operators, and in most cases will be all that is needed once installed.

Electrical Safety—General Warning

WARNING



The voltages used in the motor drive and master control panels can cause severe electrical shock and/or burns. Extreme care is necessary at all times when working with the motor drives. Only authorized personnel should carry out any installation, commissioning, or maintenance of the electrical systems. All drive systems have been tuned at the factory and will not require any additional alteration or adjustment by the owner's personnel unless specifically authorized by a Daktronics representative.



02 GENERAL INFORMATION

WARNING



The Daktronics Banner Hoists are not designed to raise and lower people. These hoists should NEVER be used for this purpose.

The DBH-150 unit must only be used with a maximum load equal to the capacity stated for the model below. Overloading the system may result in serious injury or an inoperable system

The Daktronics hoist system is an automated rigging system, meaning that the load is not counter-weighted. Each hoist can lift loads only up to the design capacity. Overloading will result in electrical overload protection shut down of the hoist and possible damage to rigging components.

WARNING



If it is necessary to operate a hoist from a location where the operator's view of the moving load is obstructed, a second person must be used to observe the load and communicate to the operator.

Dimensions of DBH-150 Unit

- Average weight of self-contained hoist module is 88 lb (39.9 kg).
- Height = 11.9" (303 mm)
- Length = 55.1" (1400 mm)
- Width = 9.9" (251.5 mm)

DBH-150 Unit Overview

The Daktronics Banner Hoist is a chain-driven self-contained hoist platform that can be powered using single phase 120V 60Hz or 240V 50Hz electricity. The electricity powers the chain motor which rotates the drums, as well as the power supply that in turn powers the RF receiver built into the hoist with 24 V DC power. It also controls the operation of the chain motor and brakes.

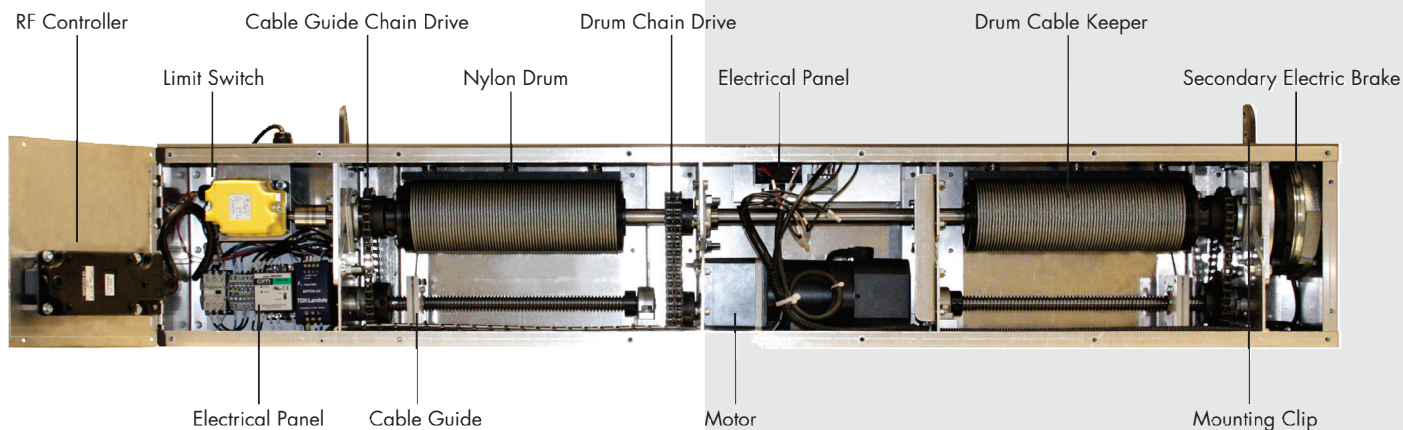
The load is raised and lowered by the two available lift lines, utilizing "Zero-Fleet Angle" design architecture to ensure that the cabling does not wind up on top of itself, protecting the cable and drum from wear.

Control over the unit is performed by utilizing the hand-held RF remote within line of sight of the hoist. It allows the user to power on/off the unit, raise/lower the lift lines, and remotely program the RF remote to correspond to multiple receivers, allowing one to control multiple banner hoists at once with one remote simultaneously. The RF remote requires 2 AA alkaline batteries in order to operate.

Specifications of DBH-150 Unit

Speed	0-20 ft/min (0.1 m/s)
Gross Lift Capacity	150 lb (68.03 kg)
Maximum Travel	Standard travel 60' (18.2 m)
Number of Lift Lines	2 available
Electrical/HP	Single Phase, 120V or 240V - 60 or 50HZ
Braking	Primary & Secondary brakes are electromechanical type, rated at a minimum 150% of full load (225 lb / 120.05 kg)
Control	Wireless hand-held remote control
Mounting	Standard units to be underhung horizontally. Discuss special mounting requirements with Daktronics.
Cable & Drum	3/32" Steel Wire Rope
Covers	Lightweight aluminum covers are standard for all units
Product dimensions:	Length: 55.1" (1400 mm) Height: 11.9" (303 mm) Width: 9.9" (251.5 mm)
Crated dimensions:	Length: 67" (1702 mm) Height: 22" (559 mm) Width: 18" (457 mm)
Weight:	88 lb (39.9 kg)

Component Diagram



03 GENERAL OPERATION/CONFIGURATION



Figure 1: Banner Hoist Remote front



Figure 2: Banner Hoist Remote back

BANNER HOIST REMOTE

The Banner Hoist System operates using a wireless remote control that communicates with the hoist using radio wave RF transmission. When operating the Banner Hoist system, always have a clear line of sight to the hoist to minimize RF interference and to promote safe operational use.

Powering On/Off

To power up the Banner Hoist, simply press the green **START** button (**Figure 1**). To power it down, press the red **STOP** button.

Raising/Lowering

To raise the Banner Hoist, simply press the **UP** button and press the **DOWN** button.

Battery Maintenance

To replace the two AA alkaline batteries remove the screw on the plastic back plate using a flat-head screw driver (**Figure 2**).

Replace the batteries and screw the back plate into proper position.

RF Tuning/Maintenance

There are two ways to tune the remote and the hoist assembly so that they synchronize. The first method is through reprogramming the remote using the remote interface plug (**Figure 3**) in conjunction with the Copy Module #700PROC pendant (**Figure 4**) next to the batteries. The second and less time consuming method is through using the remote itself next to the antenna receiver to program the receiver to respond to the remote's transmitting signal.

- A. To program the receiver to respond to a specific remote, first ensure the remote and receiver are of the same model, and operate on the same frequency band by opening up the remote and receiver and ensuring their frequency crystals match.
- B. Place the remote as close as possible to the receiver to avoid unnecessary interference.
- C. Turn off the receiver's power supply, then turn it back on. Because the receiver is fed power through the hoist itself, turn the hoist assembly on and off.
- D. Within 4 minutes of turning the Daktronics Banner Hoist back on, press and hold the **STOP** button. Continue holding and then press and hold the **DOWN** button. While holding the previous two buttons press the **UP** button 4 times, and release all the buttons when the red LED light on the remote flashes. If done correctly the remote and receiver on the hoist should be synchronized.
- E. It is possible to program multiple hoist receivers to respond to one remote I.D. through this programming method.
- F. If the remote programming data has become corrupt or access to the hoist receiver for optimal remote synchronization is restricted, use of the Copy Module #700PROC can allow copying the programming data of one remote into another remote, allowing that remote to work with the equipment the source remote is programmed to work with. (Copy Module #700PROC sold optionally.)
- G. If problems continue with the remote and/or the receiver on the hoist, consult with Daktronics, see manufacturing contact on the inside cover of this manual.



Figure 3: Banner Hoist Remote Interface Plug



Figure 4: Copy Module #700PROC

04 MAINTENANCE/INSPECTION



Figure 5: Rotary Limit Switch

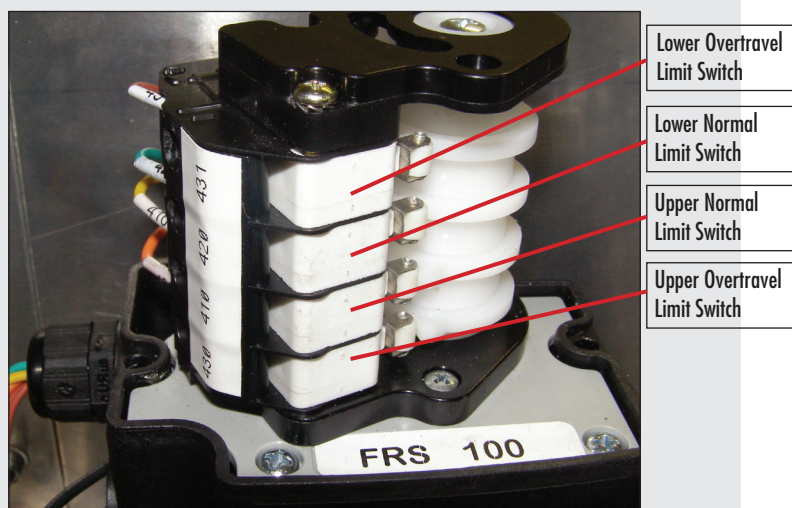


Figure 6: Rotary Limit Switch without cover

ADJUST & INSPECT BANNER HOIST

After installation under normal circumstances, users should never have to physically move the hoist assembly or open it up for maintenance. It may become necessary though to open up the side casing and check the cables on the drum should they begin to run over themselves. If the upper and lower limits of travel need changing, it is necessary to open the smaller side panel near the receiver antenna to gain access to the rotary limit switch.

DBH-150 Limit Switch Operation & Adjustment

The limit switch assembly is comprised of a fully enclosed 4-switch rotary mechanism attached to the hoist drum shaft with a flexible coupling. As the drum shaft turns, the switch mechanism rotates cams in one direction or the other to actuate snap action switches by depressing roller levers attached to each switch.

The upper and lower limits, both normal and over-travel, are set from the factory for the maximum travel of the hoist. After installation, it may be necessary to reset these limits based on the height of the installation and the desired travel distance. The limit switch assembly is shown in **Figure 5** and is located under the left most front panel of the hoist where the wireless receiver antenna protrudes. Remove this panel to gain access to the limit switch assembly. It will be necessary to remove the yellow plastic cover to make the switch adjustments.

As shown on **Figure 6**, the Rotary Limit Switch is comprised of a Lower Over-travel Limit Switch, a Lower Normal Limit Switch, an Upper Normal Limit Switch, and an Upper Over-travel Limit Switch. The limit switches are activated when the white cam wheel rotates into the roller lever on the limit switch.

Initial Lower Limit Adjustment

To initially adjust the lower limits, start by lowering the hoist to the desired low limit height. Adjust the lower normal cam wheel by turning the yellow set screw associated with the lower normal limit switch (**Figure 7**) counterclockwise until it contacts the back side of the roller lever on the switch, and actuates the switch. Operate the hoist up and down into the limit to test. Re-adjust the switch as necessary by rotating the yellow set screw counterclockwise to raise the limit or clockwise to lower the limit. Turning the adjustment screw $\frac{1}{4}$ turn will change the limit by approximately 9" (230mm).

Continue by setting the lower over-travel limit. Operate the hoist until it actuates the lower normal limit and stops. Adjust the lower over-travel cam wheel by rotating the yellow set screw counterclockwise until it actuates the lower over-travel switch. With the hoist power on and the hoist enabled from the remote control, the main contactor (LC1) will de-energize. Once the switch is actuated turn the yellow set screw $\frac{1}{4}$ turn clockwise. The switch will deactivate and the main contactor will energize. This will give approximately 6" (150mm) of over-travel distance beyond the normal lower limit.

Initial Upper Limit Adjustment

To initially adjust the upper limits, start by raising the hoist to the desired high limit height. Adjust the upper normal cam wheel by turning the yellow set screw associated with the upper normal limit switch (**Figure 7**) clockwise until it contacts the front side of the roller lever on the switch, and actuates the switch. Operate the hoist up and down into the limit to test. Re-adjust the switch as necessary by rotating the yellow set screw counterclockwise to raise the limit or clockwise to lower the limit. Turning the adjustment screw $\frac{1}{4}$ turn will change the limit by approximately 9" (230mm). **Figure 8** illustrates the labels corresponding to each screw.

Continue by setting the upper over-travel limit. Operate the hoist until it actuates the upper normal limit and stops. Adjust the upper over-travel cam wheel by rotating the yellow set screw clockwise until it actuates the lower over-travel switch. With the hoist power on and the hoist enabled from the remote control, the main contactor (LC1) will de-energize. Once the switch is actuated, turn the yellow set screw $\frac{1}{4}$ turn counterclockwise. The switch should deactivate and the main contactor will energize. This will give approximately 6" (150mm) of over-travel distance beyond the normal upper limit.

Once the limit switches are set, under normal operating conditions they should not have to be reset. If the hoist is moved, or the high or low limits do need to be reset for any reason, do so by using the procedures above. When readjusting the limits, make certain to reset the over-travel limits as well.

LIMIT SWITCH INFORMATION TABLE			
Limit Switch Model	Set Screw Turn Degree	Limit Change Distance (")	Limit Change Distance (mm)
FRS-100	90	9 in.	228.6 mm

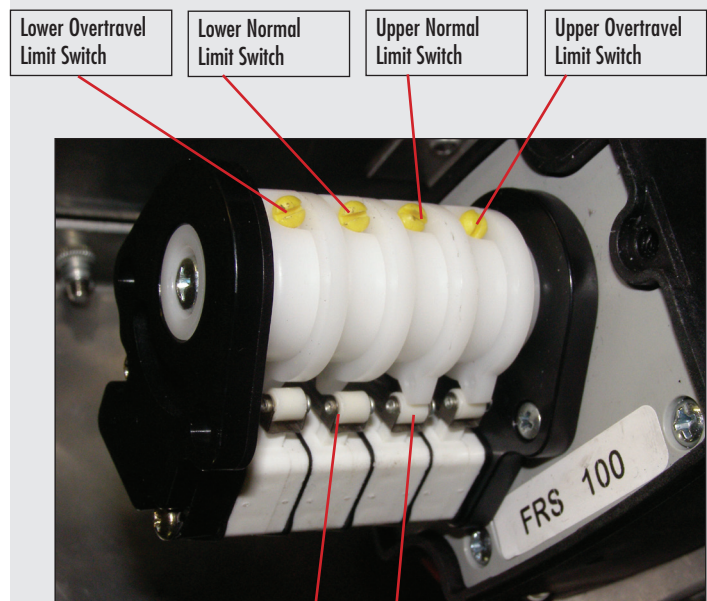


Figure 7: Adjustment Screw location

The upper cams will activate the switches from the near side and the lower cams will activate the switches from the far side as shown.

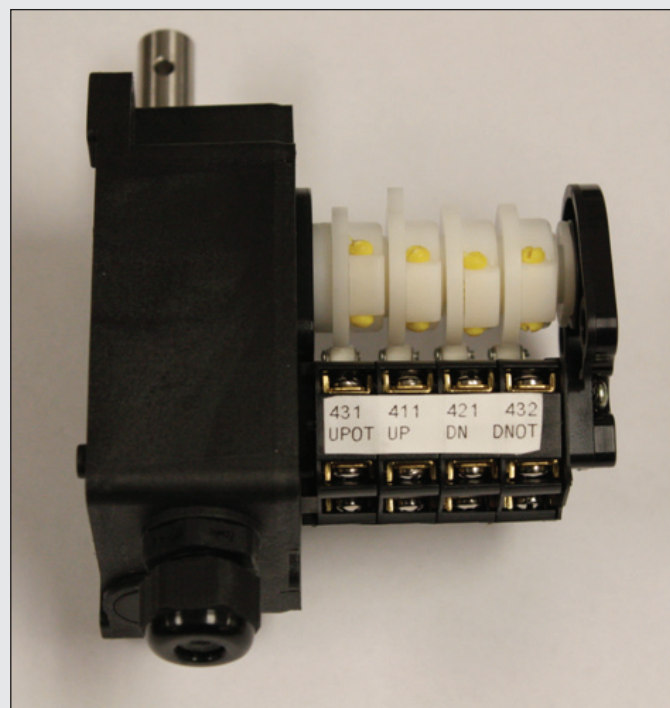


Figure 8: Rotary Limit Switch Wire labels

MECHANICAL INSPECTION

Inspection Schedule

Mechanical and electrical inspections shall be completed in accordance with local regulations or every 5 years, whichever comes sooner. Inspections shall be completed by a competent person who is certified for field service. All repairs shall also be inspected and approved by a competent person who is certified for field service prior to the hoist being returned to service.

After usage over long periods of time, certain parts of the Banner Hoist Assembly may become more audible as certain components require periodical lubrication. Examples of these parts of the assembly that could end up requiring such inspection and maintenance are shown on the illustrations to the left. Take into consideration the environment of where the Banner Hoist assembly will be installed to reduce the likelihood of wear. On chain drives and acme parts, white lithium grease should be used to lubricate (refer to **Figures 10-12**).

Always ensure that when operating and performing maintenance/inspection on the Banner Hoist system that there is at least enough weight on the cables to keep them taut. If the cables are allowed to become slackened, the cable may become unwound from the drum or for the cable to cross-over itself. Both of these conditions present a safety hazard and will depreciate the life of both the cable and the drum.

If a situation occurs where the cable has run over the drum, simply lower the hoist to its lower limit and pull the cabling outward, ensuring that the cabling left on the drum is in line. Then with weight applied raise the hoist to correctly rewind the cabling. Also ensure that the cable is being correctly guided through the Plastic Feed Guide (**Figures 13,14**) while performing the rewinding. It may be necessary to remove the front panel of the hoist to ensure the cable is wound correctly on the drum. Should additional problems or questions occur, do not hesitate to call Daktronics for additional support.

Positioning of Drum Cable Keepers

Verify that the drum cable keepers are positioned correctly as shown in **Figure 15**. The assemblies should run parallel with the drum and contact the cables to keep them in the drum grooves. If the plastic keeper part is out of position, it should be relocated as shown. The plastic keeper part is spring applied and should be free to come off the drum. Lift the ends off the drum to ensure the springs and resulting assembly are not binding.

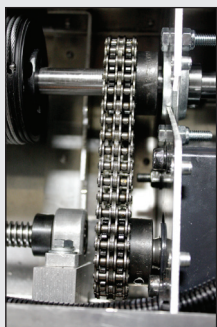


Figure 10:
Drive Chain

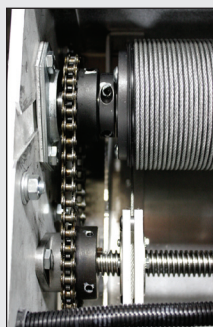


Figure 11:
Cable Guide
Chain A

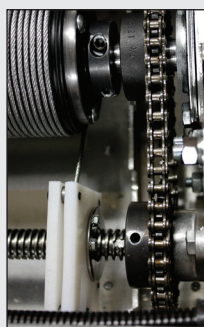


Figure 12:
Cable Guide
Chain B

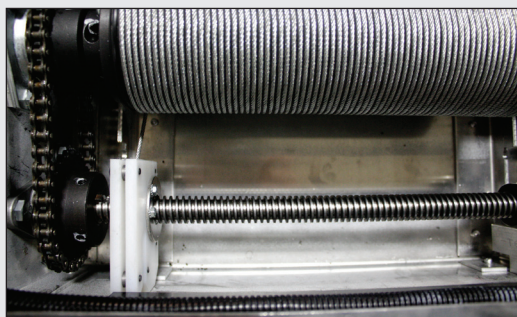


Figure 13: Cable Drum with Plastic Feed Guide



Figure 14: Cable Chain Clip



Figure 15: Drum Cable keepers

ELECTRICAL INSPECTION

Under normal conditions, the Daktronics Banner Hoist should provide years of maintenance free service. Daktronics recommends periodic electrical inspections for corrosion and wear, particularly in high temperature and/or high humidity environments. Should issues occur or if the hoist is exposed to water or other fluids, immediately disconnect incoming power and contact Daktronics for technical assistance.

Figure 16 shows the proper wiring for the Banner Hoist power panel. If electrical issues are observed, this is where technical assistance will focus.

Figure 17 displays the Banner Hoist RF Receiver and the schematic of the wiring in the power panel in **Figure 16** which will be used as a reference when receiving technical assistance.

VISUAL INSPECTION

A quick visual inspection can provide valuable information about how the hoist is operating and whether further maintenance is required. Periodical visual inspections should be completed in between scheduled maintenance inspections.

When visually inspecting the hoist, look for components that have become loose or possible failures such as cracking in the metal framework or other components. In addition, check for the following:

- Cables should be tight around the drum, in the correct grooves and not overlapping
- Cables should follow the correct path from the drum through the cable guide assembly
- Chains are fitted properly around the sprockets
- Adequate lubrication on the chains and acme screw parts
- Intact wire terminations
- No frayed wires
- No visible corrosion or wear on or around the electrical components

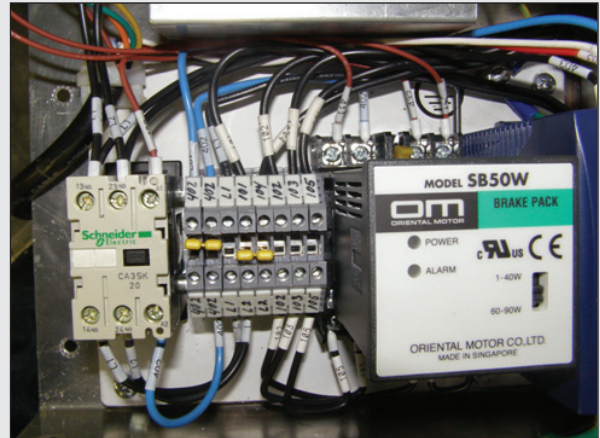


Figure 16: Banner Hoist Power Panel

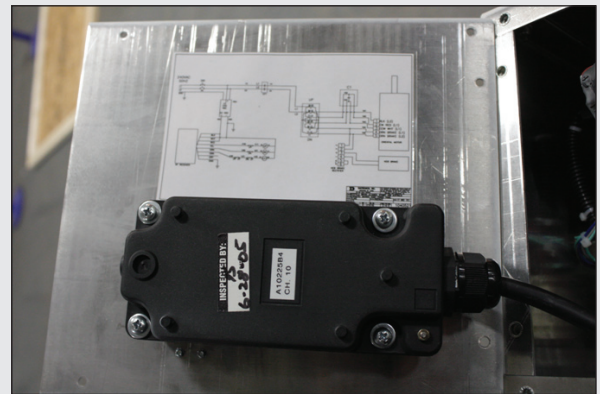


Figure 17: Banner Hoist RF Receiver

05 WARRANTY

This Warranty and Limitation of Liability (the “Warranty”) sets forth the warranty provided by Daktronics with respect to the Equipment. By accepting delivery of the Equipment, Purchaser agrees to be bound by and accept these terms and conditions. All defined terms within the Warranty shall have the same meaning and definition as provided elsewhere in the Agreement.

DAKTRONICS WILL ONLY BE OBLIGATED TO HONOR THE WARRANTY SET FORTH IN THESE TERMS AND CONDITIONS UPON RECEIPT OF FULL PAYMENT FOR THE EQUIPMENT.

1. Warranty Coverage

A. Daktronics warrants to the original end-user that the Equipment will be free from Defects (as defined below) in materials and workmanship for a period of one (1) year (the “Warranty Period”). The warranty period shall commence on the earlier of: (i) four weeks from the date that the equipment leaves Daktronics’ facility; or (ii) Substantial Completion as defined herein. The warranty period shall expire on the first anniversary of the commencement date.

“Substantial Completion” means the operational availability of the Equipment to the Purchaser in accordance with the Equipment’s specifications, without regard to punch-list items, or other non-substantial items which do not affect the operation of the Equipment.

B. Daktronics’ obligation under this Warranty is limited to, at Daktronics’ option, replacing or repairing, any Equipment or part thereof that is found by Daktronics not to conform to the Equipment’s specifications. Unless otherwise directed by Daktronics, any defective part or component shall be returned to Daktronics for repair or replacement. Daktronics may, at its option, provide on-site warranty service. Daktronics shall have a reasonable period of time to make such replacements or repairs and all labor associated therewith shall be performed during regular working hours. Regular working hours are Monday through Friday between 8:00 a.m. and 5:00 p.m. at the location where labor is performed, excluding any holidays observed by either Purchaser or Daktronics.

C. Daktronics shall pay ground transportation charges for the return of any defective component of the Equipment. If returned Equipment is repaired or replaced under the terms of this warranty, Daktronics will prepay ground transportation charges back to Purchaser; otherwise, Purchaser shall pay transportation charges to return the Equipment back to the Purchaser. All returns must be pre-approved by Daktronics before shipment. Daktronics shall not be obligated to pay freight for any unapproved return. Purchaser shall pay any upgraded or expedited transportation charges.

D. Any replacement parts or Equipment will be new or serviceably used, comparable in function and performance to the original part or Equipment, and warranted for the remainder of the Warranty Period. Purchasing additional parts or Equipment from the Seller does not extend this Warranty Period.

E. Defects shall be defined as follows. With regard to the Equipment (excepting LEDs), a “Defect” shall refer to a material variance from the design specifications that prohibit the Equipment from operating for its intended use. With respect to LEDs, “Defects” are defined as LED pixels that cease to emit light. The limited warranty provided by Daktronics does not impose any duty or liability upon Daktronics for partial LED pixel degradation. Nor does the limited warranty provide for the replacement or installation of communication methods including but not limited to, wire, fiber optic cable, conduit, trenching, or for the purpose of overcoming local site interference radio equipment substitutions.

THIS LIMITED WARRANTY IS THE ONLY WARRANTY APPLICABLE TO THE EQUIPMENT AND REPLACES ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. SPECIFICALLY, EXCEPT AS PROVIDED HEREIN, THE SELLER UNDERTAKES NO RESPONSIBILITY FOR THE QUALITY OF THE EQUIPMENT OR THAT THE EQUIPMENT WILL BE FIT FOR ANY PARTICULAR PURPOSE FOR WHICH PURCHASER MAY BE BUYING THE EQUIPMENT. ANY IMPLIED WARRANTY IS LIMITED IN DURATION TO THE WARRANTY PERIOD. NO ORAL OR WRITTEN INFORMATION, OR ADVICE GIVEN BY THE COMPANY, ITS AGENTS OR EMPLOYEES, SHALL CREATE A WARRANTY OR IN ANY WAY INCREASE THE SCOPE OF THIS LIMITED WARRANTY.

THIS LIMITED WARRANTY IS NOT TRANSFERABLE.

2. Exclusion from Warranty Coverage

The limited warranty provided by Daktronics does not impose any duty or liability upon Daktronics for:

- A. Any damage occurring, at any time, during shipment of Equipment unless otherwise provided for in the Agreement. When returning Equipment to Daktronics for repair or replacement, Purchaser assumes all risk of loss or damage, and agrees to use any shipping containers that might be provided by Daktronics and to ship the Equipment in the manner prescribed by Daktronics;
- B. Any damage caused by the unauthorized adjustment, repair or service of the Equipment by anyone other than personnel of Daktronics or its authorized repair agents;
- C. Damage caused by the failure to provide a continuously suitable environment, including, but not limited to: (i) neglect or misuse, (ii) a failure or sudden surge of electrical power, (iii) improper air conditioning or humidity control, or (iv) any other cause other than ordinary use;
- D. Damage caused by fire, flood, earthquake, water, wind, lightning or other natural disaster, strike, inability to obtain materials or utilities, war, terrorism, civil disturbance or any other cause beyond Daktronics' reasonable control;
- E. Failure to adjust, repair or replace any item of Equipment if it would be impractical for Daktronics personnel to do so because of connection of the Equipment by mechanical or electrical means to another device not supplied by Daktronics, or the existence of general environmental conditions at the site that pose a danger to Daktronics personnel;
- F. Any statements made about the product by salesmen, dealers, distributors or agents, unless such statements are in a written document signed by an officer of Daktronics. Such statements as are not included in a signed writing do not constitute warranties, shall not be relied upon by Purchaser and are not part of the contract of sale;
- G. Any damage arising from the use of Daktronics products in any application other than the commercial and industrial applications for which they are intended, unless, upon request, such use is specifically approved in writing by Daktronics; or
- H. Any performance of preventive maintenance.

3. Limitation of Liability

Daktronics shall be under no obligation to furnish continued service under this Warranty if alterations are made to the Equipment without the prior written approval of Daktronics.

It is specifically agreed that the price of the Equipment is based upon the following limitation of liability. In no event shall Daktronics (including its subsidiaries, affiliates, officers, directors, employees, or agents) be liable for any

special, consequential, incidental or exemplary damages arising out of or in any way connected with the Equipment or otherwise, including but not limited to damages for lost profits, cost of substitute or replacement equipment, down time, lost data, injury to property or any damages or sums paid by Purchaser to third parties, even if Daktronics has been advised of the possibility of such damages. The foregoing limitation of liability shall apply whether any claim is based upon principles of contract, tort or statutory duty, principles of indemnity or contribution, or otherwise.

In no event shall Daktronics be liable to Purchaser or any other party for loss, damage, or injury of any kind or nature arising out of or in connection with this Warranty in excess of the purchase price of the Equipment actually delivered to and paid for by the Purchaser. The Purchaser's remedy in any dispute under this Warranty shall be ultimately limited to the Purchase Price of the Equipment to the extent the Purchase Price has been paid.

4. Assignment of Rights

The Warranty contained herein extends only to the original end-user (which may be the Purchaser) of the Equipment and no attempt to extend the Warranty to any subsequent user-transferee of the Equipment shall be valid or enforceable without the express written consent of Daktronics.

5. Dispute Resolution

Any dispute between the parties will be resolved exclusively and finally by arbitration administered by the American Arbitration Association ("AAA") and conducted under its rules, except as otherwise provided below. The arbitration will be conducted before a single arbitrator. The arbitration shall be held in Brookings, South Dakota. Any decision rendered in such arbitration proceedings will be final and binding on each of the parties, and judgment may be entered thereon in any court of competent jurisdiction. This arbitration agreement is made pursuant to a transaction involving interstate commerce, and shall be governed by the Federal Arbitration Act.

6. Governing Law

The rights and obligations of the parties under this warranty shall not be governed by the provisions of the United Nations Convention on Contracts for the International Sales of Goods of 1980. Both parties consent to the application of the laws of the State of South Dakota to govern, interpret, and enforce all of Purchaser and Daktronics rights, duties, and obligations arising from, or relating in any manner to, the subject matter of this Warranty, without regard to conflict of law principles.

7. Availability of Extended Service Agreement

For Purchaser's protection, in addition to that afforded by the warranties set forth herein, Purchaser may purchase extended warranty services to cover the Equipment. The Extended Service Agreement, available from Daktronics, provides for electronic parts repair and/or on-site labor for an extended period from the date of expiration of this warranty. Alternatively, an Extended Service Agreement may be purchased in conjunction with this warranty for extended additional services. For further information, contact Daktronics Customer Support at 1-800-DAKTRONICS (1-800-325-8766).

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