



# Dynamo Hockey Overhead Assembly Instructions



7224 Burns Street, Richland Hills, Texas 76118 • Phone: 972-595-5300  
Valley-Dynamo.com • Championshuffleboard.com • Sunglocorp.com  
Valley-Dynamoparts.com • Youtube: ValleyDynamoTV





## Warranty Details

Valley-Dynamo warrants its new products to be free from defects resulting from faulty manufacture or faulty components under the following terms and conditions:

### **WARRANTY LENGTH**

**One year** on Dynamo® Hockey tables. **90 days** on Replacement Parts

### **FOR WARRANTY SERVICE**

Valley-Dynamo will, at its sole option, repair, upgrade or replace this product in the event of any defect in materials or workmanship during the warranty period. This shall be Valley-Dynamo's sole obligation, and the customer's sole remedy, for any warranty claim.

Valley-Dynamo will request and you must provide the **complete Model Number & Serial Number of the unit** (not just the last 5 digits), or other proof of purchase such as an invoice or receipt.

**OPERATORS AND END USERS** – While our Tech Support staff is available to assist with diagnosis and troubleshooting of your problem, contact your Distributor for Warranty Service on your equipment.

**DEALERS AND DISTRIBUTORS** – To obtain replacement and an RMA number, contact Valley-Dynamo referencing the Model number and Serial number of the unit and the nature of the problem. Valley-Dynamo will, at its discretion, send replacement parts and/or issue an RMA for

the return of failed parts. To avoid billing issues, request an RMA when the failed part is present or readily available. Credit will be issued only upon receipt and inspection of the RMA. Valley-Dynamo may send replacement parts or issue an account credit. NO REFUNDS. Valley-Dynamo reserves the right to cancel outstanding RMAs 30 days after issue. Items returned without an RMA will not be inspected or credited and may be refused or returned at Customer Expense.

**REPLACEMENT PARTS COVERAGE** – Valley-Dynamo warrants replacement parts for 90 days from the date of purchase. To obtain a replacement and an RMA number, contact Valley-Dynamo referencing the nature of the problem and provide proof of purchase. Valley-Dynamo will, at its discretion, send replacement parts and/or issue an RMA for the return of failed parts. To avoid billing issues, request an RMA when the failed part is present or readily available. Upon receipt and inspection of the RMA, Valley-Dynamo may send replacement parts or issue an account credit. NO REFUNDS. Valley-Dynamo reserves the right to cancel outstanding RMAs 30 days after issue. Items returned without an RMA will not be inspected or credited and may be refused or returned at Customer Expense.

### **SCOPE OF COVERAGE**

Note that our warranty is not an unconditional guarantee for the duration. Dynamo products are made to our exacting standards and known for their durability, but are not indestructible and may require periodic maintenance in order to function properly. The following are not covered by the warranty.

- 1) Shipping or transport damage
- 2) Normal wear and tear
- 3) Damage or deterioration resulting from neglect, misuse, accident, liquid spills, improper installation, abuse, pets or mishandling. See our full warranty at [www.valleydynamoparts.com](http://www.valleydynamoparts.com) for special notes regarding Air Hockey Playfields, and take special care during this installation to avoid damaging your playfield
- 4) Incidental or consequential damage (except at Valley-Dynamo's discretion).
- 5) Removal or installation charges.
- 6) Shipping charges except at Valley-Dynamo's discretion.
- 7) Unauthorized modification of the product.

- 8) Use of this product with unapproved parts, conversion kits or accessories.
- 9) Damage from fire, flood, lightning or other acts of nature

**EXCLUSION OF DAMAGES**

Valley-Dynamo’s sole obligation and liability under this warranty is limited to the repair or replacement of a defective product at our option. Valley-Dynamo shall not, in any event, be liable for any incidental or consequential damages resulting from interruption of service, loss of business or revenue, or for liability in tort relating to this product or resulting from its use or possession.

**LIMITATIONS OF IMPLIED WARRANTIES**

There are no other warranties, expressed or implied, including but not limited to those of merchantability, revenue generation, or fitness for a particular purpose. The duration of implied warranties is limited to the period specified in the Warranty Length section above.

**TO OBTAIN TECHNICAL SUPPORT**

Please check the resources available at [www.valleydynamoparts.com](http://www.valleydynamoparts.com) or contact [TECHHELP@valley-dynamo.com](mailto:TECHHELP@valley-dynamo.com).

**DECLARATION OF CONFORMITY**

*Dynamo, Ltd.*

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*2525 Handley-Ederville Rd., Richland Hills, TX 76118*

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declare under our sole responsibility that the product

*DH-100*

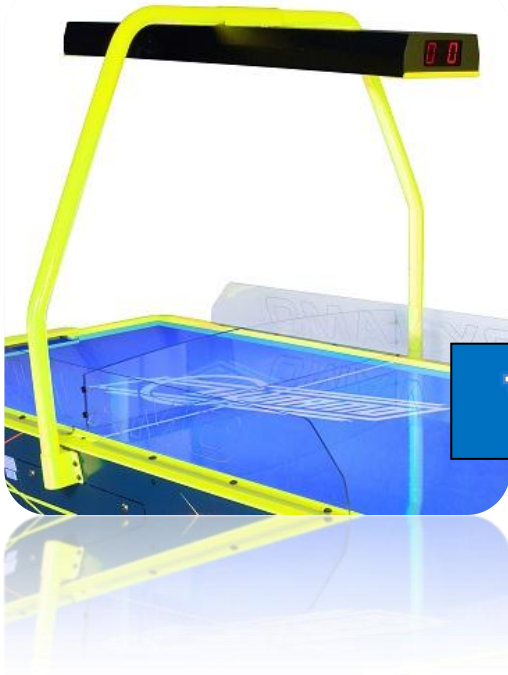
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to which this declaration relates is in conformity with the following standard(s) or other normative document(s)

- ◆ EN 55022, Class B, Limits and methods of measurement of radio interference characteristics of information technology equipment, 1992.
- ◆ EN 50082-1, Electromagnetic compatibility - Generic immunity standard – Part 1: Residential, commercial, and light industry, January 1992.

following the provisions of The Electromagnetic Compatibility Directive, 89/33/EEC.

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|---|---|
| <p><i>Richland Hills, TX</i></p> <hr/> <p>Place of Issuance</p> <p><b>November 17, 1995</b></p> <hr/> <p>Date of Issuance</p> | <p><b>William G. Rickett</b></p> <hr/> <p>Printed Name</p>  <hr/> <p>Signature of Authorized Person</p>  |
|---|---|



## Warnings and Notices

**USE OF NON-DYNAMO PARTS OR CIRCUIT MODIFICATIONS MAY CAUSE SERIOUS INJURY OR EQUIPMENT DAMAGE! USE ONLY GENUINE DYNAMO AUTHORIZED PARTS.**

- For safety and reliability, substitute parts and modifications are not recommended.
- Substitute parts or modifications may void FCC type acceptance.
- Use only authorized components and parts. Failure to do so will void warranty and may result in incorrect and/or unsafe operation.

### **WARNING**

- Plug this game into a properly grounded outlet to prevent shock hazards and assure proper game operation.
- Do not use an adapter plug to defeat the power cord's grounding pin.
- Do not cut off ground pin.

Information in this manual is subject to change without notice. Dynamo reserves the right to make improvements in the equipment function, design or components as process in the engineering or manufacturing methods may warrant.

**FOR GENUINE DYNAMO PARTS AND SERVICE CONTACT YOUR LOCAL AUTHORIZED DYNAMO DISTRIBUTOR.**

**PARTS CAN ALSO BE ORDERED AT [WWW.VALLEYDYNAMOPARTS.COM](http://WWW.VALLEYDYNAMOPARTS.COM)**



## Parts and Tools

Before proceeding, we recommend having these tools:

- Socket Wrench with a 7/16" Socket
- Phillips Screwdriver
- Pliers – regular or needle-nose (preferably one of each)
- 1/8" Allen hex key wrench

Your overhead box should contain these hardware items

|  |   |
|--|---|
| • 1/4"-20 Kep Nuts                                 | 4 |
| • 1/4" Flat Washers                                | 6 |
| • 1/4"-20 x 1" Hex Head Bolt                       | 2 |
| • 1/4"-20 x 1" Allen-head set screw w/cup point    | 1 |
| • 8-32 x 5/8" Pan-head Phillips self tapping screw | 4 |
| • Rubber Gasket                                    | 1 |
| • This instruction booklet                         | 1 |

...and these parts

|  |   |
|--|---|
| • Complete Overhead Housing                          | 1 |
| • Light Housing Mounting Bracket                     | 1 |
| • Diffuser Bracket                                   | 2 |
| • Overhead Tube – Male End (w/square hole at bottom) | 1 |
| • Overhead Tube – Female End                         | 1 |
| • Side Mounting Bracket                              | 2 |
| • Side Mounting Bracket Clamp                        | 2 |





## Assembly Instructions

### **BE SAFE:**

**We recommended that you have at least two people involved in the setup of this overhead. Seriously.**

### **BE PREPARED:**

**Contact your Distributor immediately if any parts listed on the prior page are missing from your overhead or your bulbs arrived broken**

1. Connect the overhead tube female end to the overhead tube male end.
2. Install a side mounting bracket at the base of the male overhead tube and secure it with a ¼" -20 x 1" Hex Head Bolt. **DO NOT FULLY TIGHTEN THIS BOLT YET**, but make sure the bracket is held in place.
3. Using the Pan Head screws and washers already installed on the side of the table, attach a mounting bracket clamp and the remaining side mounting bracket to the front (service door) side of the table.
4. On the rear (non service door) side of the table, remove the pan Head screws and washers already installed. Save them for reattachment later in the process.
5. Remove the paper from the rubber gasket supplied in the hardware kit to expose the adhesive backing. With the adhesive side down, carefully center the gasket over the joint where the overhead male and female tubes meet and securely wrap it around.
6. Remove the light diffuser from the overhead housing and carefully remove the fluorescent bulbs. Move the bulbs to a safe area for reinstallation once the overhead is complete
7. With a piece of cardboard on the floor to protect the part from scratches, put the light housing mounting bracket on the floor with studs facing upward.
8. Position the joined overhead tubes with the gasket-wrapped joint centered in the light housing mounting bracket. Turn the overhead housing upside down and guide the bracket's four mounting studs through the holes in the housing.

9. Slip one ¼” flat washer over each stud, and thread a ¼” – 20 kep nut onto each stud. Tighten the nuts by hand to secure the housing, then secure them in an alternating “X” pattern using the 7/16” socket (you will fully tighten them later, but this is to keep the housing in place during mounting).

10. Rotate the assembled unit, now with the housing secured to the mounting tubes, into the upright position.

11. Cut the wire tie securing the excess wire to the overhead housing. Feed the wire through the housing and down the male end overhead tube. Once the wires are fed through the tube, pull them through the opening at the bottom.

12. On a new table, cut the cable tie securing the side mount display extension harness and feed that harness into the table. On an older table, feed that harness as far as possible through the opening and secure it for access in a later step.

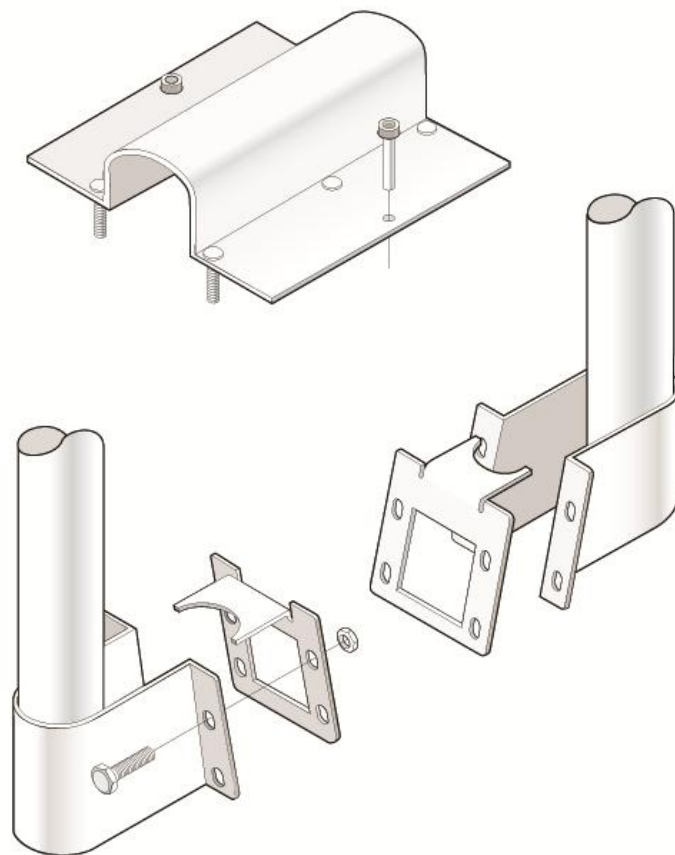
13. Have the remaining four ¼” – 20 x 1” pan head Phillips screws and mounting bracket clamp ready at the backside of the table. You will need them in step #16.

14. New tables have a trap door underneath the table. Remove it at this time

15. This is where having the second person to help gets important: Carry the completely assembled unit to the table. Aim the overhead so the male tube, where the wire harness exits, is positioned at the back side of the table away from the service door. Lower the female end into the bracket and clamp installed in the front side of the table during step #3.

16. With one person holding the male tube of the overhead assembly, have the other person feed the wires from the overhead through the opening in the mounting bracket clamp. On new installations, also feed these wires into the back side of the table.

17. Once the wire harness is in place, use the four ¼” – 20 x 1” pan head Phillips screws to secure the mounting bracket clamp and mounting bracket to the backside of the table.





18. Now with the male and female overhead tubes both mounted into the side bracket clamps, tighten all mounting brackets and clamps until securely fastened.

19. Use the last ¼”-20 hex head bolt and washer to secure the female overhead tube (front side of table) to the mounting bracket clamp and SECURE BOTH SIDES FIRMLY with your 7/16” socket.

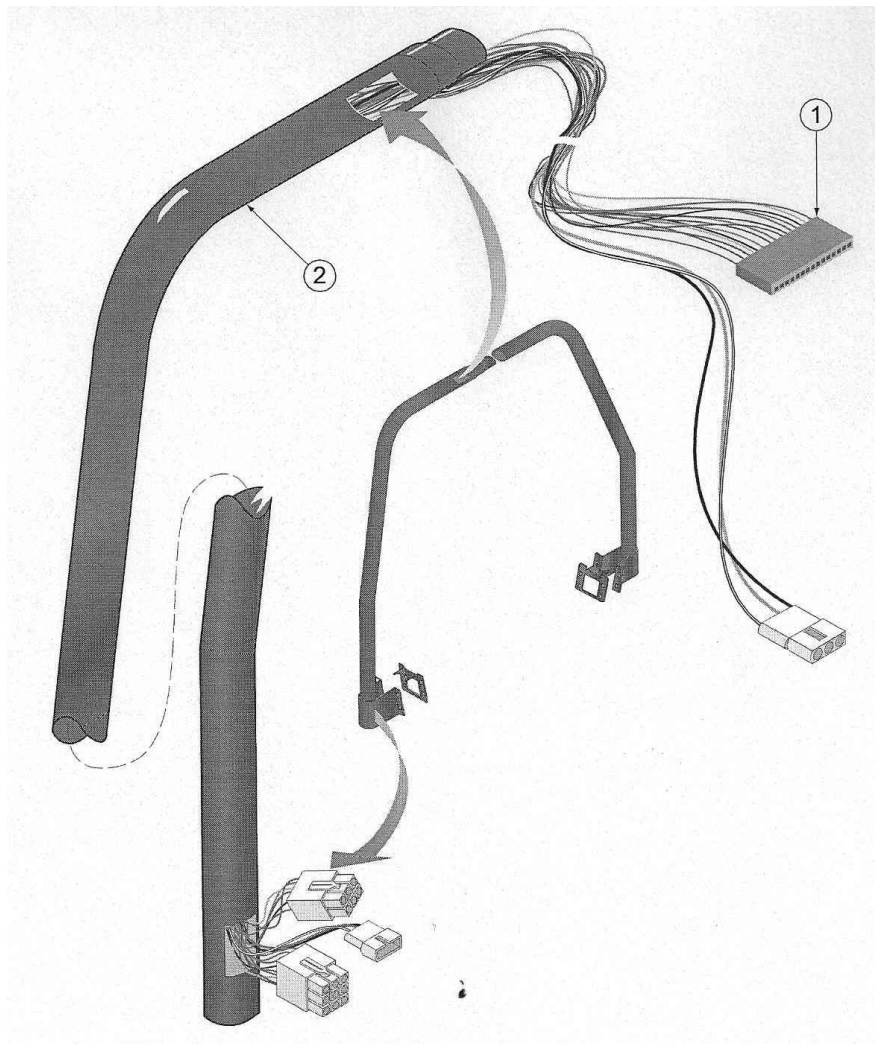
20. Use a level (or your best judgement) to adjust the overhead housing.

21. Once leveled, tighten the four nuts securing the light housing mounting bracket with your 7/16” socket. Use an alternating “X” pattern and tighten these nuts as much as possible without stripping the threads.

22. Use your 1/8” Allen/hex key and insert the ¼” – 20 Allen Set Screw into the center hole of the overhead housing to prevent any additional movement. THE OVERHEAD HOUSING WILL PIVOT ON THE TUBES IF PULLED DOWN OR PUSHED UP. THIS IS NORMAL AND DESIGNED FOR SAFETY TO PREVENT THE ASSEMBLY AND THE TABLE FROM DAMAGE DUE TO PLAYERS ATTEMPTING TO STAND ON THEM. CAUTION – EXCESSIVE PIVOTING MAY DISCONNECT OR DAMAGE THE WIRING.

23. Use the trap door opening to disconnect the 6” side mount score display harness from the main unit harness.(if installing on an older table, you have pulled this harness out for access, disonnnect it at this time) You may want to save the side mount score display harness if you decide later to remove the overhead and install a side mount display on the table. Attach the 3 white connectors from the overhead to the three connectors on the main harness. Each section connects only one way.

24. Retrieve the fluorescent lighting tubes and reinstall them in the overhead. Line up one tube so the pins are positioned vertically. Insert the ends into the white sockets. Once the contact pins are pushed in as far as they can go, turn the bulb clockwise a quarter turn. You should feel



the tube snap into place. Check to make sure both ends of the tube are secured before releasing the bulb. Repeat process for second bulb.

25. Apply power to the table. Both bulbs should light up immediately. If either or both bulbs do not illuminate, check to make sure they have a good connection to the sockets as described in the previous step.

26. If the bulbs still fail to illuminate, inspect the bulb mounting brackets to ensure they line up flush and square to the bulbs. If not, **UNPLUG THE TABLE** and then loosen the screws on the problem bracket for repositioning. Repeat as needed for other brackets.

27. Once the lamps are operational, slide the light diffuser back into place.

28. On the left end of the overhead housing, reinstall one diffuser trim bracket (lip facing up) and secure it to the housing with two of the 8 – 32 x 5/8” black oxide pan head Phillips self-tapping screws. Repeat for the other side.

Overhead installation should now be complete.

