

**BEFORE YOU START:** Your best resources for Dynamo Air Hockey are the [CURRENT](#) and [PREVIOUS-GENERATION](#) Air Hockey Parts Breakdowns located on this site. Both are packed with useful information. Note that the IDENTIFIERS on the exploded drawing could refer to several different PART NUMBERS. There is no such part as an “A3”. Don’t look for an “A3” in the Webstore, don’t call us asking for the price of an “A3”. Save time and find the actual part number you need.

**BEFORE YOU CALL:** To solve any particular functional or wiring questions, open the SERVICE DOOR on the side of your table and check to see the VERSION (v#.##) of the Controller PC Board. This will almost always be the first question Tech Support will ask you, so be prepared, and save even more time.

**A WORD ON PARTS AVAILABILITY:** The basic coin-operated and “Pro Style” professional grade products have changed little over the past 30 years. In most cases, the biggest changes will be cosmetic, and though a part or decal may no longer be available in a particular color or pattern, there is a current part that should fit. On a standard 8-foot or 7-foot table, you should be able to find legs, down corners, playfields, goal ends, playfield trim, overhead brackets, corner covers and decals that may not match, but will fit.

Parts NO LONGER available with NO replacement are...

Any part specific to Four-Player Tables

Any part specific to small 6-foot Tables (Short Shot is not 6-foot)

[Top Rails without Rounded Corners](#)

[All parts for “Dual Tube” overheads](#)

Arena Overhead parts (other than the LED Scoreboard)

Parts for Tornado Branded Coin-operated tables

Parts are competitively priced if you need an item or two to get a table working. The cost can add up very quickly for a table that needs the entire coin box/frame/mechanism system rebuilt or was the table picked from to repair others. Dynamo takes pride in a durable table for which many parts are still available, but *sometimes almost always* a new Dynamo with updated features is a better investment than sinking hundreds of dollars into a 10 or 20 year old table.

- HOW OLD IS MY TABLE?
- I KNOW MY MODEL NUMBER, DOES THAT HELP?
- HOW DO I CLEAN MY PLAYFIELD?
- WHAT MAKES DYNAMO PUCKS AND MALLETS SPECIAL?
- MY PLAYFIELD IS CLEAN, BUT THE GAME PLAY IS STILL SLOW.
- CAN I PURCHASE A REPLACEMENT FOR MY DAMAGED PLAYFIELD?
- CAN I CUT DOWN AN 8 FOOT PLAYFIELD FOR A 6' COIN OP AIR HOCKEY?
- HOW COME YOU DON'T USE STAINLESS STEEL OR POLYCARBONATE PLAYFIELDS?
- WHAT ABOUT PLAYFIELDS FOR CONSUMER AIR HOCKEY TABLES?
- CAN I STILL GET ARCTIC STAR PARTS?
- WHAT DOES THIS TROUBLE CODE MEAN?
- WHY DOES MY TABLE SHUT DOWN AUTOMATICALLY?
- DO YOU REPAIR FAILED BOARDS? *(with photos of the current boards, to help you identify them)*
- DO YOU SUPPLY THE ELECTRICAL COMPONENTS ON THE BOARDS?
- CAN I ADD A BILL ACCEPTOR TO MY TABLE?
- HOW DO I TOUCH UP THE FLUORESCENT YELLOW TRIM PIECES ON MY HOT FLASH II AIR HOCKEY?
- THE SIDE AND END DECALS ON MY AIR HOCKEY TABLE ARE WORN, WHAT REPLACEMENTS ARE AVAILABLE?
- HOW CAN I MOVE MY TABLE, AND SHOULD I DISASSEMBLE IT?
- WHAT KIND OF LIGHT BULBS GO IN THE ARENA OVERHEAD?
- WHAT KIND OF LIGHT BULBS GO IN THE EMERGENCY BEACONS ON THE ARENA OVERHEAD?
- WHAT KIND OF LIGHT BULBS GO IN THE BLUE STREAK/PRO STYLE OVERHEAD?
- WHY DON'T YOU SELL LIGHT BULBS
- WHERE CAN I FIND BLACKLIGHT BULBS FOR MY HOT FLASH OVERHEAD?
- CAN I GET PARTS FOR THE HELICOPTER-STYLE LIGHT ON MY ARENA AIR HOCKEY?
- I REPLACED A GOAL END ON MY TABLE AND SCORES NO LONGER REGISTER ON THAT SIDE. WHAT HAPPENED?
- HOW CAN I CHANGE MY OLD TABLE TO THE "CHEAT PROOF" MAGNETIC COIN SWITCH?
- CAN I CHANGE MY QUICK-ENTRY GOAL ENDS TO THE HINGED STYLE THAT USES LOCKS?
- HOW DO I GET THE NEW STYLE CORNER PROTECTORS TO FIT ON MY OLDER DYNAMO TABLE?
- I HAVE A TORNADO AIR HOCKEY TABLE, CAN I STILL GET PARTS?

**HOW OLD IS MY TABLE?** Serial numbers on Dynamo Air Hockey tables were not tracked. Also, as tables have been modified and updated through the years, the version of PCB in your table, coin mechanism, scoring mechanism or even the cosmetic appearance will not reveal the age. Your table may have a v6.11 PCB and a magnetic coin switch, but those may not have been original equipment.

"This axe is 30 years old. I replaced the handle 10 years ago and the blade 7 years ago."

If your table has mechanical scoring switches in the goals, it was probably built before 1993.

If your table uses a push chute coin system, it was probably built before 2005 (although we still make Push Chute tables occasionally to order)

**MY AIR HOCKEY TABLE IS A “MODEL DH-100,” DOES THAT HELP?** No. Technically, every single U.S. Dynamo Air Hockey table, whether they are home model, professional-grade home tables, or coin operated, built yesterday, last year, or 30 years ago is a model DH-100. What’s important to know when looking for any parts are if the table is or is not coin operated, and if any Model Name (NOT NUMBER) is shown or known. Again, the Parts Breakdown links at the top of this page are your most valuable resource.

**“MY AIR HOCKEY TABLE IS A MODEL 02040\_ \_ \_ \_ , DOES THAT HELP?”** We do not have historical records of model numbers and years built. The problem with having computerized records on computers technology has passed by.

**HOW DO I CLEAN MY PLAYFIELD?** The simple explanation is to turn the blower on and use only Isopropyl (rubbing) alcohol. Apply the alcohol to a clean cloth and wipe down the playfield. It will clean and evaporate quickly.

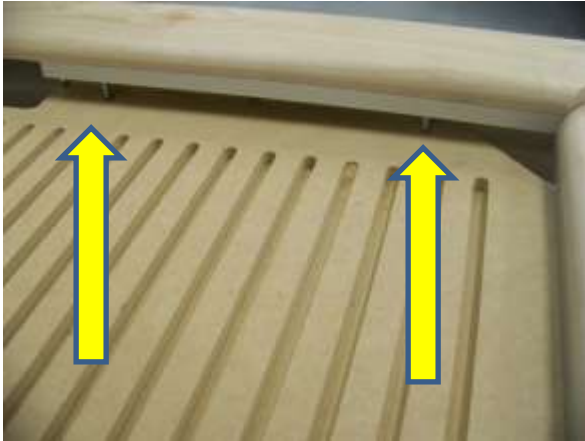
- *NEVER pour any liquid directly onto the playfield, it will warp the playfield.*
- *NEVER use water as it will not evaporate quickly enough and warp the playfield.*
- *NEVER use furniture polish or protectants. The wonderful shine they give leaves a film that will slow play, collect grime even faster and possibly never completely come off.*

Our [Playfield Care Service Bulletin](#) will give details on all aspects of playfield care and repair.

**MY PLAYFIELD IS CLEAN, BUT THE GAME PLAY IS STILL SLOW.** Microscopic dents over time will interfere with the air cushion. Replace your pucks and mallets, or sand the pucks and mallets with [240 grit sandpaper](#).

**WHAT MAKES DYNAMO [PUCKS AND MALLETS SPECIAL](#)?** We use our own proprietary plastic formula. Our HEAVIER pucks tend to stay on the table and not fly off, but our pucks and mallets also have some FLEXIBILITY for better playing action. Imagine the difference between hitting something solid with a ball-peen hammer vs. a rubber mallet. The mallet has more give, won’t your wrist won’t hurt as quickly or as much. Do our pucks and mallets cost a little more? Yes. Are they better? We think so. Our [Webstore](#) offers Dynamo mallets; and Dynamo pucks in 3¼” size for coin operated and Pro-Style tables, and 2½” for the Short Shot and Arctic Wind tables.

**MY PLAYFIELD IS DAMAGED BEYOND ANY HOPE OF REPAIR, CAN I PURCHASE A REPLACEMENT?** The answer is yes [for coin-operated and Pro Style 8-foot and 7-foot tables](#), no for 6-foot tables. [Playfields are available in the Webstore](#), but are the most expensive part of the table, and they are expensive to send because they weigh over 150 pounds and must be shipped flat (shipping typically runs in the range of \$200, automatically added to the playfield price). Be forewarned: an Air Hockey table that is “in great shape, but just needs a new playfield” might not be as good a deal as it sounds.



### **COULD I JUST CUT DOWN A LARGER PLAYFIELD TO FIT A 6 FOOT TABLE?**

Definitely not, and this photo of an unlaminated playfield explains why. You would end up removing the outer framing. The rail bolts (note yellow arrows) would lack a solid anchor, and the inner air chambers (those long grooves) would be opened. It would be like taking a few inches off of a fish tank to make it smaller. All the water's going to get out unless you build all new walls. Consider replacing a 6-foot table in need of a new playfield with our [Dynamo Short Shot](#).

**WOW, PLAYFIELDS ARE KIND OF EXPENSIVE; COULD I JUST PUT A NEW LAMINATE ON MINE?** In theory it would be possible, but on an 8-foot table that also means precisely drilling 4186 holes for airflow and carefully mounting that drilled laminate onto the air chambers to guarantee uniform pressure throughout the playfield. It's not as easy as it looks. And before you ask, we do not sell drilled laminates separate from the playfield.

**YOUR COMPETITORS' TABLES HAVE POLYCARBONATE AND STAINLESS STEEL PLAYFIELDS, WHY DO YOU STILL ONLY USE LAMINATE?** That's an excellent question. Every company has their solutions to the playfield issue; we have looked into both playfields.

While a stainless steel surface would take longer to wear through, it is still susceptible to scratching. We also found a stainless steel surface more susceptible to small dents (dents that cannot be 'pounded out' because you cannot get behind them with the surface mounted on the playfield) and these small dents interrupt the uniform air cushion essential to good hockey play. Finally, the stainless steel surface is no better at resisting moisture than a laminate playfield because it is still mounted on wood. While the steel won't bubble like a laminate, the wood will still swell and result in an uneven surface.

Polycarbonate playfields are VERY heavy, and because we have not found a US supplier that met our standards, that means ordering these very heavy playfields from overseas and having them shipped here, at considerable expense. While the issue of moisture and swelling is fully eliminated, look at a convertible with a plastic rear window. Even a polycarbonate playfield is not fully scratch resistant and again, over time, the playfield will develop scratching.

While our laminate playfields are, we admit, the most expensive part of our tables; we've priced the Stainless Steel replacement playfields and they were considerably more expensive. We were unable to find the purchase cost of a replacement polycarbonate playfield but from what it cost us to buy them direct from the supplier, it can't be good. Meaning if you plan to put a hockey table in a location for a few years and replace the table when the playfield wears, these tables might be attractive to you. If you want to INVEST in

a table that you can keep in service for decades... and hundreds of Dynamo tables are decades old and still in service... and it might require a replacement playfield or two over the course of those decades, Dynamo is the table for you.

**I KNOW THIS IS A COIN-OP/PRO STYLE FAQ PAGE, BUT ARE PLAYFIELDS AVAILABLE FOR THE CONSUMER TABLES SUCH AS THE ARCTIC FLASH, ARCTIC STAR, CLUB PRO AND ARCTIC WIND?** Replacing the playfield on these tables would require disassembling them to a point that they would lose their structural integrity and could never be correctly reassembled again. Threaded nails and wood adhesives are used to build the cabinets. We do not offer playfields for the Consumer Grade tables and would recommend replacing the table if the playfield is sufficiently damaged to require replacement.

**ARE THERE ANY PARTS AVAILABLE FOR THE ARCTIC STAR TABLE?:** As we write this, all we have left are a few leg levelers and AC Adaptors.

The overseas manufacturer who built that table ceased all contact with us when Brunswick sold Valley-Dynamo in 2009, and we could no longer obtain any parts. Soon after, Brunswick started marketing [a remarkably familiar-looking table called the V-Force](#). Also, GLD Products sells another [very familiar looking table called the Viper Arctic Ice](#) – this one even has a big star on the playfield like the Arctic Star did. Are the parts compatible? We're not sure; GLD says they are. The manufacturer still isn't answering our calls or e-mails.



**WHAT DOES IT MEAN WHEN MY COIN OR PRO STYLE TABLE DISPLAYS THIS CODE?** We are working on an updated Troubleshooting list for some of the older boards, but these handy tips may be very helpful

- A display flashing “01” or “22” indicates a problem with the LEFT goal end sensor
- A display flashing “10” or “11” indicates a problem with the RIGHT goal end sensor

Remove the cover and look for a foreign object or puck stuck in the goal area

- A display flashing “08” indicates a problem with a Coin Switch – [contact us](#) for more information.

**WHY DOES MY TABLE SHUT DOWN AUOMATICALLY?** The v7.01 PCB currently used defaults to a 7-point game, it can be set as low as a 2-point game or as high as a 9-point game. It also has a timer built in that defaults to a 7-minute game. The times can be set to as high as a 16-minute game, or even to play only be score without regard to time. Both features are built in to keep your table from running for hours if the players wander off. We

have posted the Programming Parameters for the [v7.0](#) and [v9.0](#) boards currently used. On new tables these instructions are attached to the inside of the Service Door.

**DO YOU REPAIR FAILED AIR HOCKEY BOARDS? We do not.** Many tables starting with the v2.4 board can be upgraded to the current v7.01 PCB, and that way you get the most current part with all the latest features and no “Repair history.” [YOU CAN PURCHASE THE v7.01 PCB AT THIS LINK](#). Upgrading to the v7.01 PCB will require replacing your 12v Transformer with a [10v Transformer, part # 880400715](#). [Valley-Dynamo Tech Support](#) will be able to help with the specifics. **Current PCBs look like (color may vary, and scale might be a little off):**



V7.0 – U.S. 110v tables without sound part # 880400125



V9.0 – U.S. 110v tables with sound part # 880400140



v6.11 – DISCONTINUED IN 1993  
Replace with v7.0

**As we can get more photos of older board types we’ll post them. The v6.11 board debuted in 1993 and is now 20 years old.**

**I DON’T SEE ANY PART NUMBERS LISTED FOR THE ELECTRICAL COMPONENTS ON THE BOARD, DO YOU SUPPLY THEM?** Because we do not build boards in house we do not stock board-level repair components, not even for current production PC boards. As technology has progressed you are likely to find that components for older boards are now difficult or impossible to get from the usual suppliers. If you choose to attempt repairs, [we have most board schematics posted on the site.](#)

**MY TABLE HAS A COIN DOOR WITH ROLL DOWN MECHS, AND IT LOOKS LIKE THERE IS SPACE ON THAT DOOR FOR A BILL ACCEPTOR. CAN I ADD ONE?** Yes, from our Webstore you can order the DBA wire Harness, part # 730400020, and the ICT 500-bill 110v DBA, part # 880100200.

**CAN I ADD A BILL ACCEPTOR TO A TABLE WITH A PUSH CHUTE COIN MECH?** No.

**CAN I INSTALL COIN OPERATION ON MY NON-COIN TABLE?** Coin tables are built from the ground up to accommodate the coin door and electronics. In a situation where you are torn between a coin and non-coin table, it's easier to set up a coin table for free play than to convert a non-coin table to coin operation. A lot like it's easier to turn a garage into a spare bedroom than a spare bedroom into a garage.

**DO YOU CARRY TOUCH UP PAINT FOR THE FLUORESCENT TRIM PIECES ON MY HOT FLASH II AIR HOCKEY?** The UV reactive surface on these pieces is powder coated, *not painted*. Finish flaws that may not be noticed under normal light are very obvious when the black light is used.

The problem when trying to touch up is that a finish that looks good under normal light can look bad under the black light and a finish that looks good under the black light can look bad under normal light.

Unfortunately, the best solution will be to replace any damaged rail or goal end. Obviously that is expensive but it will be the only complete solution with no guesswork or unknown problems. If you choose to try to find some sort of touch-up paint (we do not stock the paint), decide if it is more important that the part looks good under the black light, or in normal light. If black light is more important, you must get "UV reactive" paint and use care when painting as even the slightest flaw or change in paint thickness will be very obvious under the black light.

Completely replacing the new parts is the best way to have a new finish. [The goal ends, side rails and goal end rails are available in the Webstore.](#)

**THE SIDE AND END DECALS ON MY AIR HOCKEY TABLE ARE WORN, WHAT REPLACEMENTS ARE AVAILABLE?** The [EXTERIOR DETAIL AND APPEARANCE](#) WebStore category is where you can view and purchase all decals currently available.

**HOW CAN I MOVE MY TABLE, AND SHOULD I DISASSEMBLE IT?** It is preferable to simply remove the legs and overhead and move the table intact. When moving the table on a truck, move the table on its side, service door up, strapped to the wall of the truck, with thick cardboard wedged beneath to provide support. No matter how you move the table, always place something between the rail and floor to prevent damage, and ALWAYS take great care to protect the playfield from scratches or dents. The playfield is the most expensive part of the table and while we really like selling replacement playfields, you won't like paying for one if damaged in an avoidable accident. The playfield can be removed, contact us for detailed instructions.

Further disassembly is **STONGLY DISCOURAGED**. The wood sections are secured with wood glue AND staples AND glued spiral nails. Dynamo Hockey tables are sturdy and solid with good reason. **Take our word for it, but DON'T TRY IT:** the table was designed to be dropped from shoulder height without falling apart. Again, please don't go do this on a dare or to prove a point; and be advised that dropping the table from shoulder height is not covered under Warranty, no how, no way, not in anyone's wildest dreams.

If you absolutely insist on taking it apart or have no other choice (such as the rec room was built around the table and now you have to get it out—yes, it's happened), to have any hopes of putting it back together you will need a pry bar, rubber mallet, large hammer, grinder, and all new wooden cleats. Having some Bondo handy to fill in the plywood that comes apart will help also. It's a full day's work if done correctly. We have no official directions or guide for doing this so you are pretty much on your own. Take good notes and don't lose any parts.

#### LIGHT BULBS:

**WHAT KIND OF LIGHT BULBS GO IN THE ARENA OVERHEAD?** A 24 watt "2G11" Base Compact Fluorescent. available at many Home Improvement and Lighting suppliers.

**WHAT KIND OF LIGHT BULBS GO IN THE EMERGENCY BEACONS USED ON THE LATER ARENA OVERHEADS?** Use a 25 watt, 120v T-8 "25T8C" Clear Tube Bulb. We do not stock this bulb but many specialty lighting suppliers do.

**WHAT KIND OF LIGHT BULBS GO IN THE BLUE STREAK/PRO STYLE OVERHEAD?** Use 15 watt "T-8" 18-inch Fluorescent bulbs, also available at many hardware stores and specialty lighting suppliers

**FOR REAL? – THE 8-FOOT TABLE OVERHEADS JUST USE THE EXACT SAME 48" FLUORESCENT BULBS LIKE IN MY KITCHEN AND GARAGE?** Like MY kitchen and garage, maybe yours too, but yes, nothing exotic or unusual about them. They even use the same sort of Ballast, too.

**WHY DON'T YOU SELL THEM?:** Experience has shown half the bulbs we tried to ship arrived broken. A trip to the local hardware, discount or even grocery store will have them in your hands quicker, cheaper, and intact.

**WHERE CAN I FIND BLACKLIGHT BULBS FOR MY HOT FLASH OR FIRE STORM OVERHEAD?** This is just a standard 48" Fluorescent lamp in a Blacklight. Many hardware stores, and even some discount stores, and even a certain Mart whose name starts with a "W" all carry these lamps. While any "UV" or "Ultraviolet" lamp ought to bring out the glow, we've found the purple-coated bulbs do so a lot better.

**CAN I GET PARTS FOR THE HELICOPTER-STYLE LIGHT ON MY ARENA AIR HOCKEY?** Shortly after introduction we switched to an "Emergency" style beacon light on



the Arena Overhead and it's been nearly 10 years since we stocked the Helicopter light. If you need to replace the light or lamps in the light, run a search on the "American DJ H-450L" Helicopter Light and you should be able to find something comparable. Approximate retail price of that unit—when it was available-- was close to \$100. We did not stock repair parts for the light, and were unable to obtain any repair documentation.

**I REPLACED A GOAL END ON MY TABLE AND SCORES NO LONGER REGISTER ON THAT SIDE. WHAT HAPPENED?** The Optical Scoring sensor needs a black background to “see” the puck pass by. Order [Part # 850400470—the self-adhesive Scoring Opto-Shield](#).

**HOW CAN I CHANGE MY OLD TABLE TO THE “CHEAT PROOF” MAGNETIC COIN SWITCH?** [Part # 030400500, the Coin Switch Modification kit](#) will include the magnets and all the necessary hardware.

**SOME DISHONEST PLAYERS AT ONE OF MY LOCATIONS DISCOVERED HOW TO CHEAT THE “CHEAT PROOF” COIN SWITCH. WHAT CAN I DO TO STOP THEM?** [Valley-Dynamo Tech Support](#) will be able to help with the specifics. Posting too much here might “give folks ideas.”

**MY QUICK-ENTRY GOAL ENDS HAVE A BOLT IN EACH LOWER CORNER, BUT THE REPLACEMENTS HAVE A SINGLE BOLT IN THE MIDDLE, WILL THEY WORK?** Definitely, you will simply need to install a threaded insert in the middle of the existing puck drop (or table sidewall) so the single bolt has a solid attachment point.

**CAN I CHANGE MY QUICK-ENTRY GOAL ENDS TO THE HINGED STYLE THAT USES LOCKS?** This is a very labor-intensive and difficult operation, and if done incorrectly can result in serious (possibly irreparable) damage to your table. We do not recommend this.

**[NOT SURE WHAT GOAL ENDS YOU HAVE OR NEED? CLICK HERE FOR MORE INFORMATION](#)**

**HOW DO I GET THE [CORNER PROTECTORS \(part # 860400030\)](#) TO FIT ON MY OLDER DYNAMO TABLE?** The corner covers introduced on the Dynamo Arena® were expanded to the entire Dynamo table line until we switched to [rounded top rails](#). Old-style corner covers (part # 860400010) are no longer available.

**I HAVE A TORNADO AIR HOCKEY TABLE, CAN I STILL GET PARTS?** Before Valley and Dynamo merged, a Tornado-branded Air Hockey was sold. The line was discontinued around 15 years ago. A Dynamo Blower Motor will *probably* work in a Tornado Air Hockey table. Because the Tornado and Dynamo tables were developed independently, no other parts are available.