



QuadAir Jr.

Air Hockey Table Owners Manual

Assembly operation and care instructions.

Serial # _____

Distributed By _____

Sales Person _____

Technical Service # _____

Forward

First, we would like to thank you very much for purchasing the QuadAir Jr. from Barron Games International. [This product is a multi-player game for an entertainment centerpiece.]

For your own safety, please read through this instruction manual that we have prepared for you thoroughly, and take precautions when using the product. We hope that you will become accustomed to the product quickly.

Note before assembling

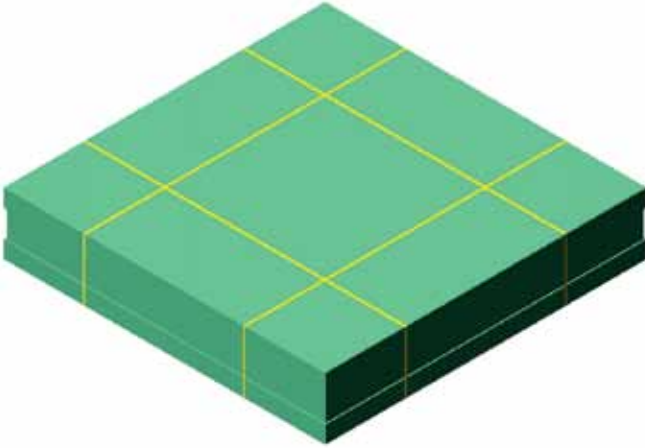
1. Inspect to make sure all of the parts are included and not damaged.
2. Prior to assembly, you must ensure there is sufficient space for placing or shifting this product.
3. QuadAir needs at least 6 people for assembly and ensure your safety and the safety of others around you when moving the product.

Tools required for assembling

- QuadAir Jr. Manual
- Screw Driver or Drill
- Scissors
- QuadAir Jr. Door Key [located inside the table]

*Note: Prepare the above specified tools. Be careful not to damage the product while using these tools

Assembly Procedures

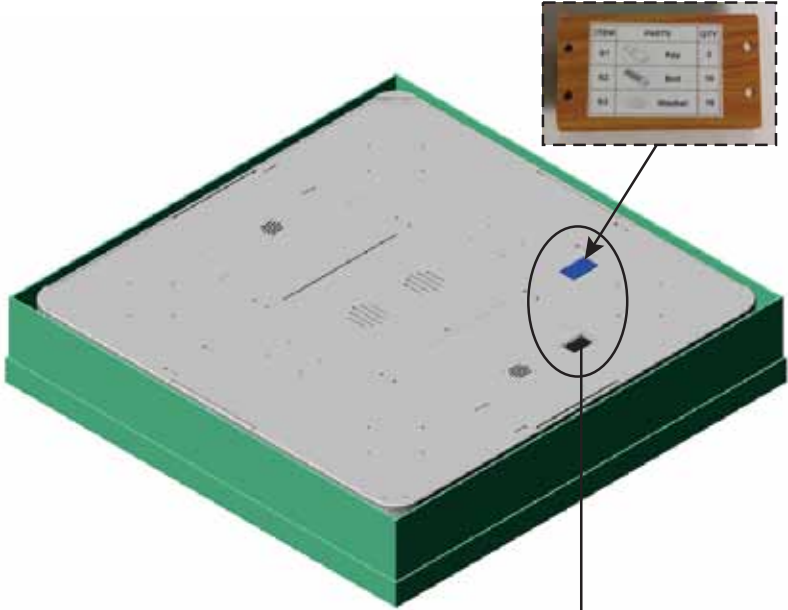


1. Use scissors or a knife to cut* through the packing tape.
**Do not cut too deep or you will damage the unit.*



2. Open the cardboard box to ensure the wooden side is facing up and the playfield is facing down to the floor.

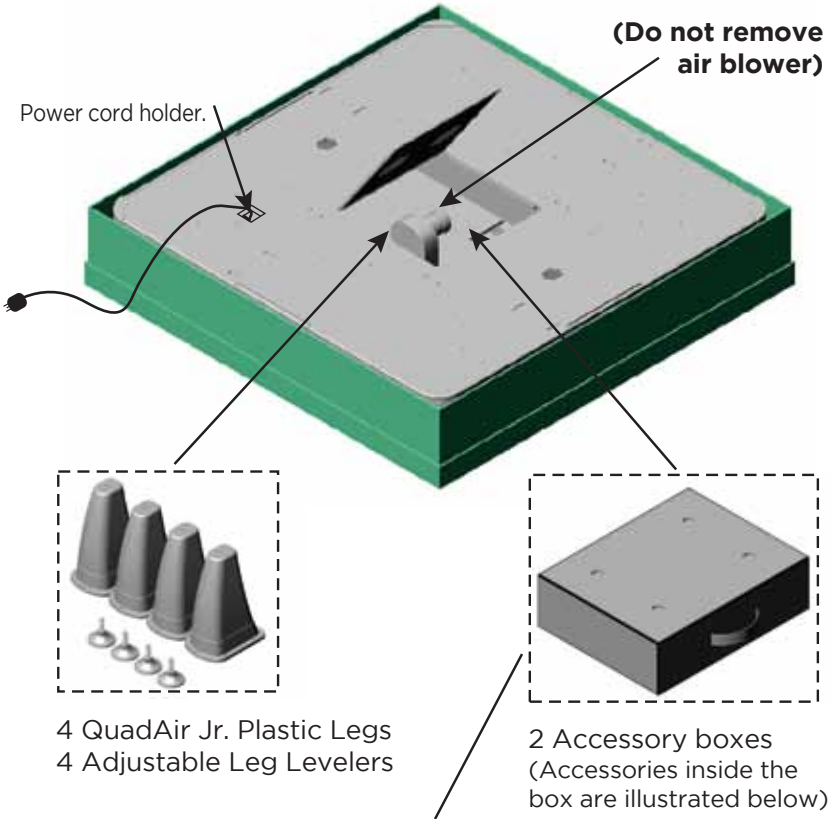
Use a screw driver or drill to unscrew the 4 screws on the panel with the sticker "PARTS" on it. Once the panel is opened, please take out the parts indicated below.



For Legs
16 Roundhead screws M8x25
16 Flat washers M8x16

For machine
3 serial number 2868
QuadAir keys

After taking out the keys, open the center door panel, and take out all other parts from inside of the machine's body.



20 Pucks

+



2 Red Mallets

+



2 Blue Mallets



1 Polish Spray Wax

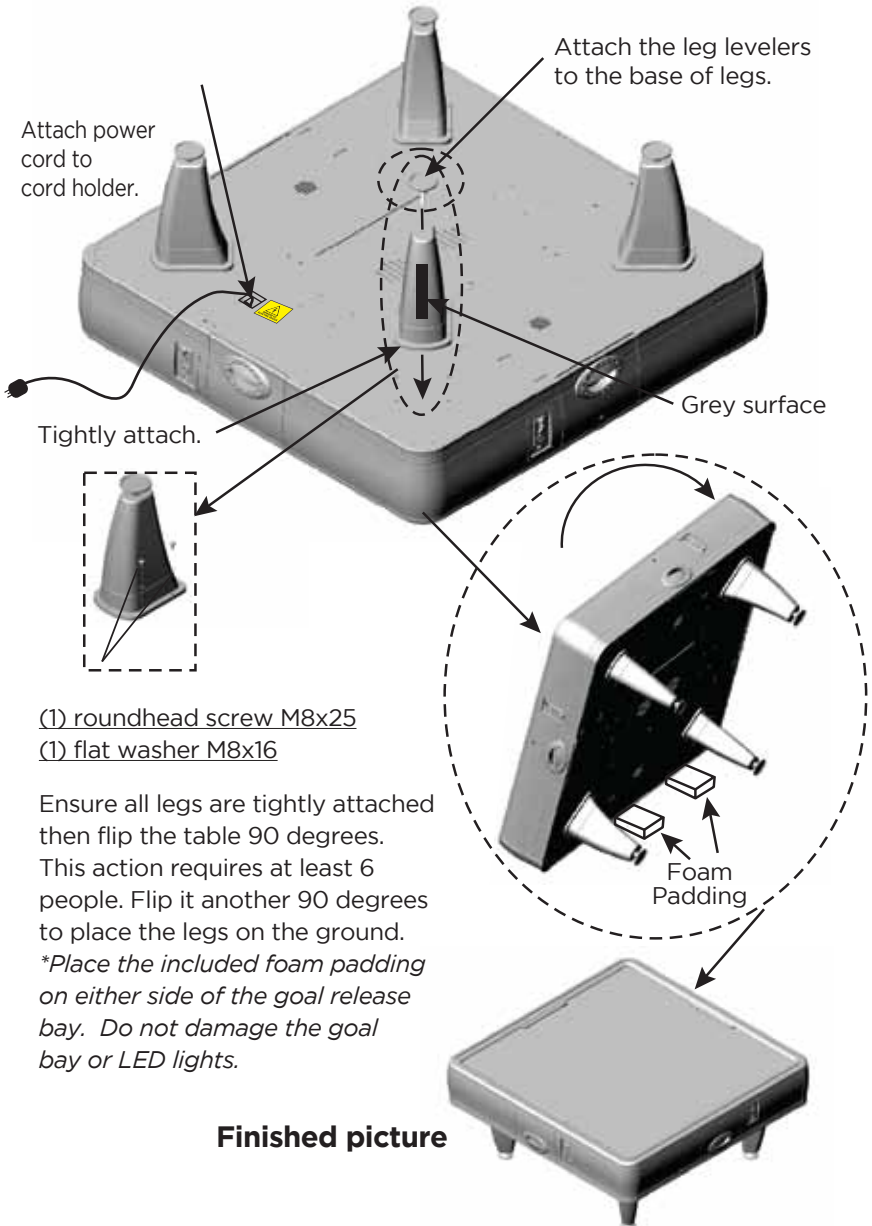
+



1 AC power cord

Take out the 4 QuadAir Jr. plastic legs and screw the adjustable leg levelers onto the base of the legs. Place the legs on the bottom surface of the table. Ensure alignment and then attach with the big flathead screw M5x35 and washer M8x16.

**Make sure grey surface is facing out.*



- (1) roundhead screw M8x25
- (1) flat washer M8x16

Ensure all legs are tightly attached then flip the table 90 degrees. This action requires at least 6 people. Flip it another 90 degrees to place the legs on the ground. **Place the included foam padding on either side of the goal release bay. Do not damage the goal bay or LED lights.*

Finished picture



Safety Instructions for use and play.



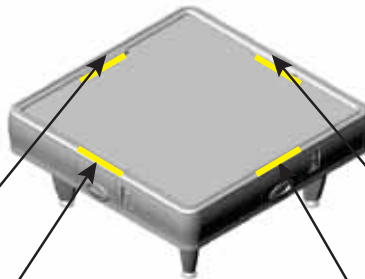
Risk of Electric Shock

- Hazardous voltage which can cause electrical shock exists inside the equipment. Only qualified personnel should work inside the equipment.



Playing Warnings

- Do not hit the puck with the mallet when the puck is not level and flat.
- Spectators should not stand by the side of the table. This may cause injury.
- Hold the mallet by the handle and not the base or the puck may hit fingers.
- This game features flashing lights which may not be suitable for photosensitive epilepsy.



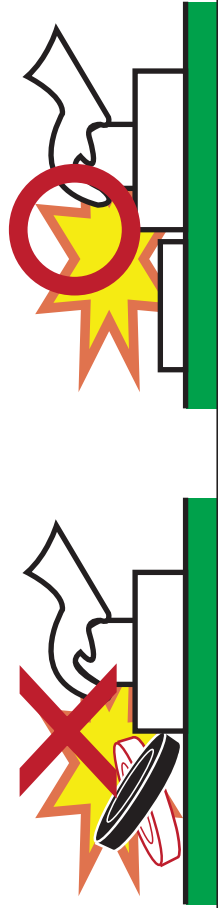
Warning labels are attached by the goal of each side.

How to Play QuadAir

1. Need 2 Players to Start. Insert credits.
2. Defend your Goal! You have 5 lives.
3. After 5 lives Game Over. Time is limited.
4. Insert coin to continue game.



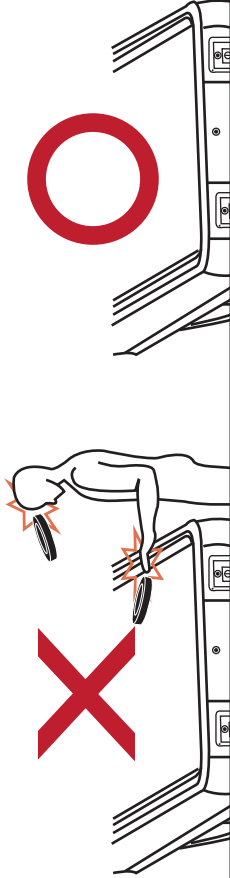
Do not hit the puck with the mallet when the puck is not level and flat.



⚠ ATTENTION

This game features flashing lights which may not be suitable for photosensitive epilepsy

Spectators should not stand by the side of table. This may cause injury.

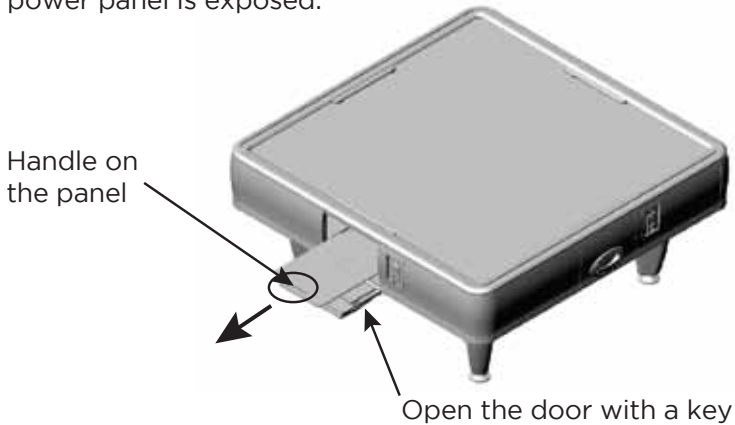


Hold the mallet by the handle and not the base or puck may hit fingers.

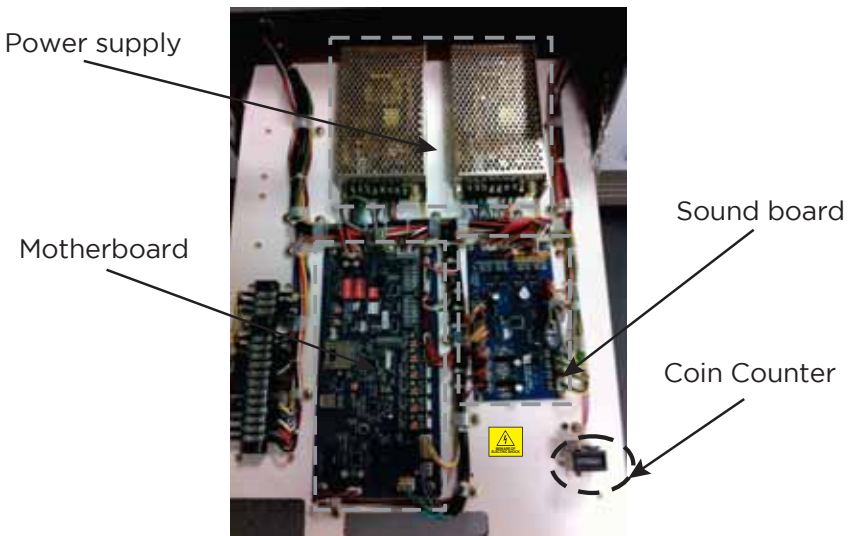


Manual for the software of the machine

First, ensure the power is off. Open the door with a key. Hold the panel's handle and pull it out until half of the power panel is exposed.

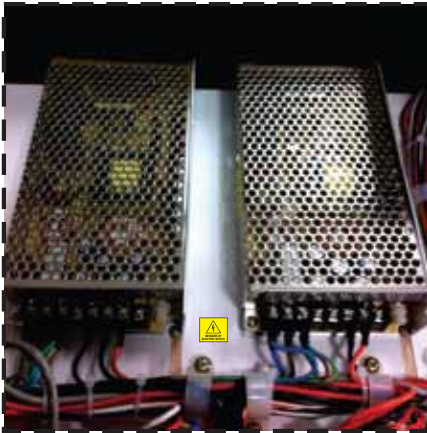


Descriptions of internal hardware



Note: Do not touch open terminals or exposed wires while the game is on. Risk of electric shock.

Function Descriptions of all hardware



Note: Avoid electric shock. Do not touch open terminals or exposed wires. Please turn off the game to perform repairs.

Power Supply

Provides power to all internal components, such as the motherboard, coin mechanism, motor... etc. The +5v and +12v are separated to ensure no interference to components when one has an insufficient supply or an unstable supply of power.

Note: +5v is on the left +12v is on the right



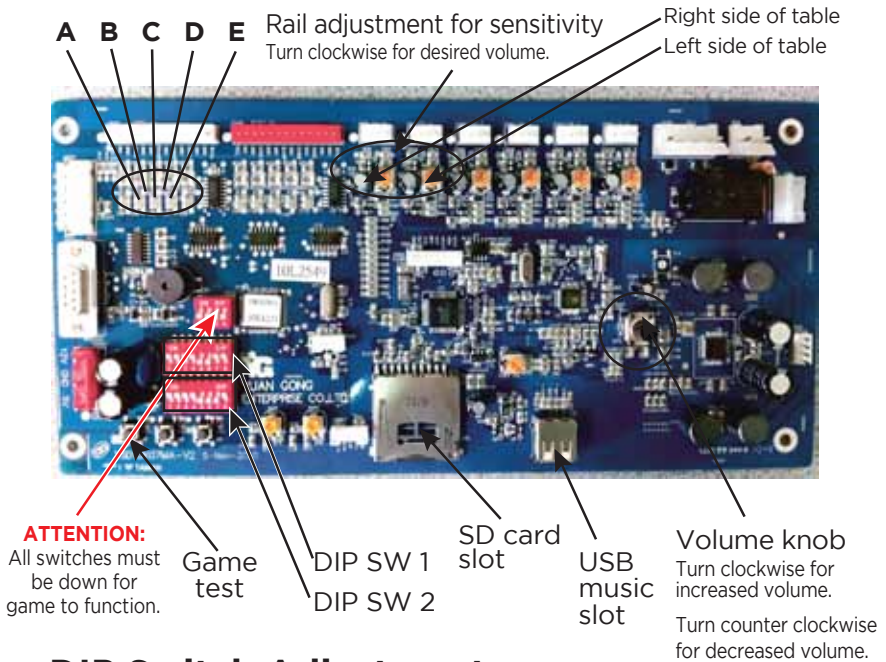
Motherboard

Controls the operation of all internal components. Malfunctions or errors with any of the components can be diagnosed by looking at the LED light indicators on the motherboard.

Descriptions of light signals and DIP Switches

Error Lights

- Light A Goal Sensor Signal
- Light B Start Button Light Signal
- Light C Coin Mechanism Light Signal
- Light D Ticket Light Signal
- Light E Rail Noise Strike Light signal



DIP Switch Adjustment

SW1 - Dip Switch 1

| DIP | SW1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-------|---------|---|---|---|---|---|---|---|---|
| COINS | CREDITS | I | I | I | | | | | |
| 1 | 2 | O | I | I | | | | | |
| 1 | 3 | I | O | I | | | | | |
| 1 | 4 | O | O | I | | | | | |
| 2 | 1 | I | I | O | | | | | |
| 3 | 1 | O | I | O | | | | | |
| 4 | 1 | I | O | O | | | | | |

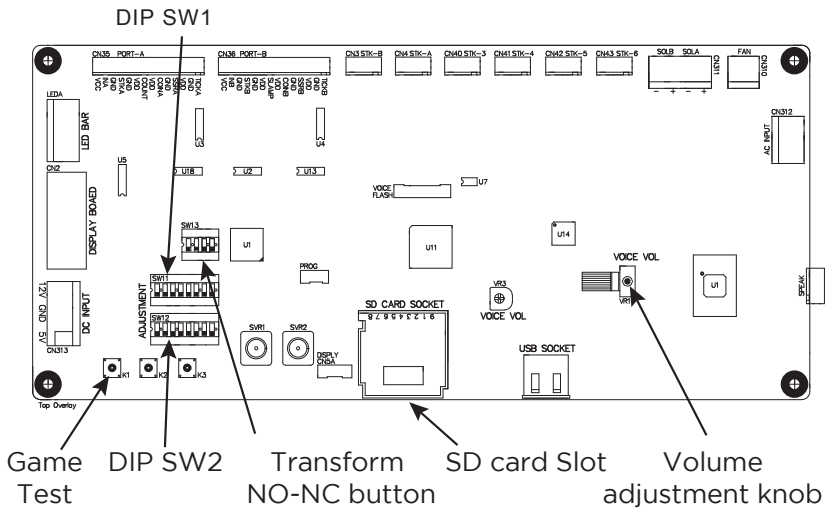
I = UP O = DOWN

***Default switch position is down.**

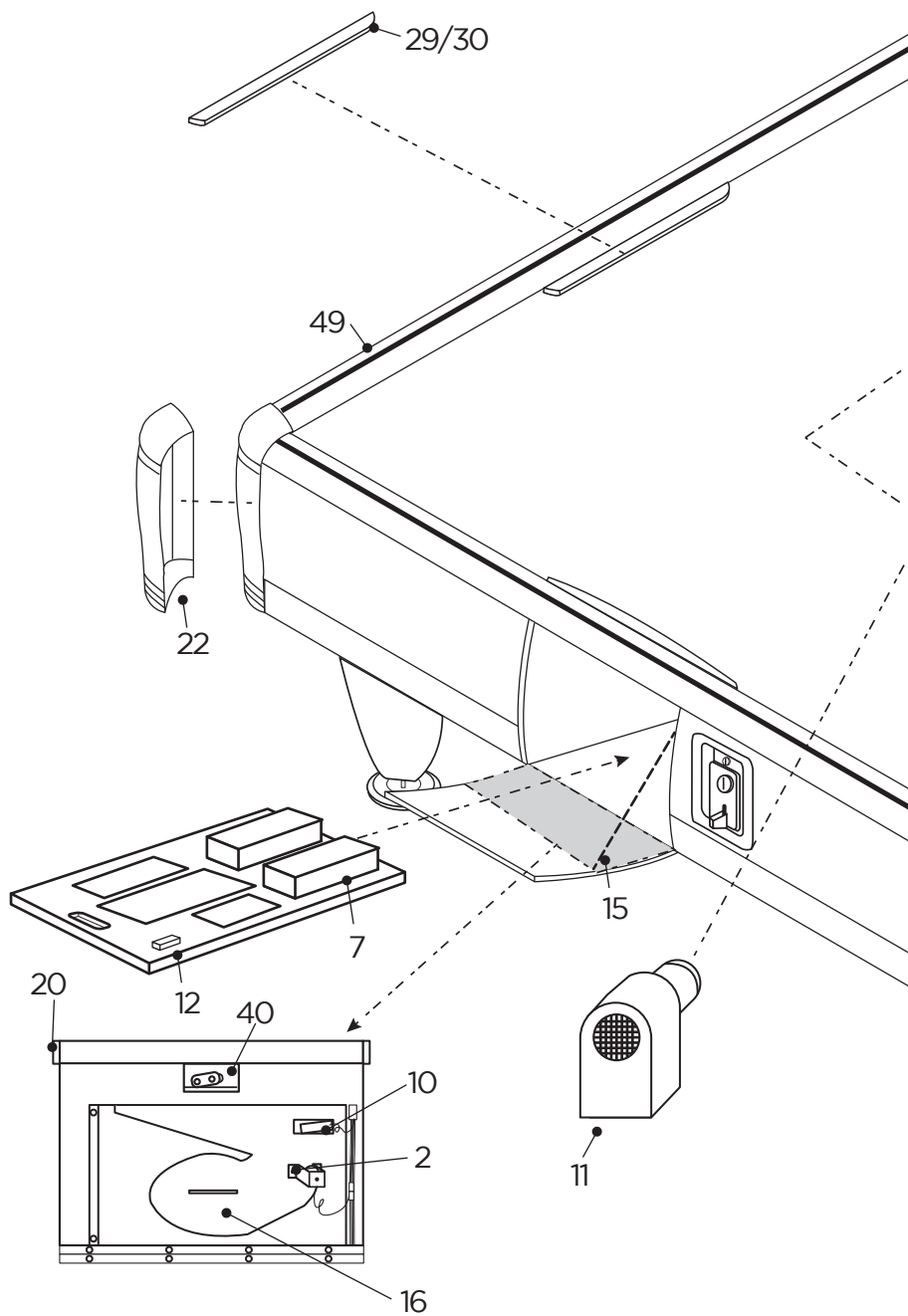
SW2 - Dip Switch 2

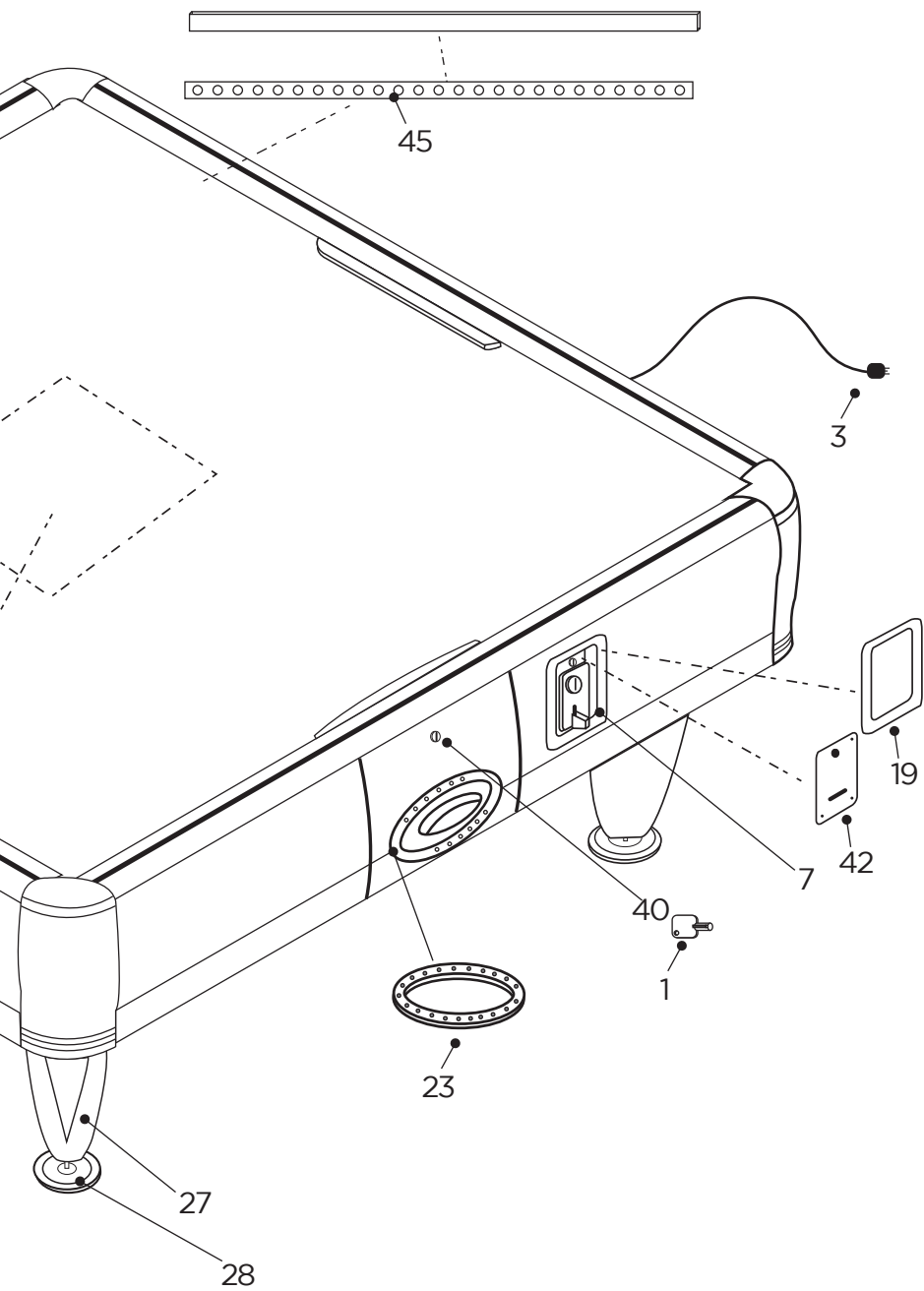
| DIP | SW2 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|------|----------|---|---|---|---|---|---|---|---|
| LIFE | 5 | O | O | O | | | | | |
| | 5 | I | O | O | | | | | |
| | 5 | O | I | O | | | | | |
| | 5 | I | I | O | | | | | |
| | 5 | O | O | I | | | | | |
| | 5 | I | O | I | | | | | |
| | 4 | O | I | I | | | | | |
| | 3 | I | I | I | | | | | |
| TIME | NO LIMIT | | | | O | O | O | | |
| | 10 | | | | I | O | O | | |
| | 8 | | | | O | I | O | | |
| | 6 | | | | I | I | O | | |
| | 4 | | | | O | O | I | | |
| | 3 | | | | I | O | I | | |
| | 2 | | | | O | I | I | | |
| | 1 | | | | I | I | I | | |

Description of Motherboard Controls



- LEDA: Running LED lights around table
- NC2 : Display panel connection outlet
- NC313 : Direct Current (DC) Input outlet
- NC35 : A1 Output Control point
- NC36 : B1 Output Control point
- NC311 : Electro-magnet switch for goal gates (solenoid)
- Nc3 : Rail Strike Detector
- NC4 : Rail Strike Detector
- NC40 : Rail Strike Detector
- NC41 : Rail Strike Detector
- NC42 : Rail Strike Detector
- NC43 : Strike Detector
- NC310 : Blower output
- NC312 : Alternating Current (AC) Output
- R3 : Sound Effect and Volume adjustment
- VF1 : Total Volume Adjustment
- SPEAK : Sound Output





| Ref # | Part # | Description | Qty |
|--------------|---------------|--|------------|
| 1 | 3202004 | Air Hockey Key #2868 | 3 |
| 2 | 3213082 | Solenoid Brackets | 12 |
| 3 | 3601007 | Power Cord (U.S. Style) | 1 |
| 4 | 3604056 | QuadAir Jr. Coin Mech w/LED | 4 |
| 5 | 3605091 | Goal Solenoid DC 12V | 8 |
| 6 | 3605117 | Power Supply NES-100-12+12V | 1 |
| 7 | 3605118 | Power Supply NES-100-5+5V | 1 |
| 8 | 3607050 | Blower Motor 110V | 1 |
| 9 | 3611010 | Speaker | 2 |
| 10 | 3612370 | Optical Goal Sensor | 4 |
| 11 | 3619007 | Rail Sensor Chip (27mm) | 4 |
| 12 | 3699001 | 6 Digit Coin & Ticket Counter (12V) | 1 |
| 13 | 3699019 | Power Switch | 1 |
| 14 | 3207443 | Coin Panel 419mm | 2 |
| 15 | 3212075 | Door Chain 410mm | 4 |
| 16 | 3213349 | Puck Terminal | 4 |
| 17 | 3213365 | Power Switch Box | 1 |
| 18 | 3213501 | Rail Corner Reinforcement Iron | 4 |
| 19 | 3301288 | Coin & Ticket Chrome Door Accent | 4 |
| 20 | 3301292 | Access Door Spacers | 8 |
| 21 | 3301311 | Interior Corner Part Attachment | 4 |
| 22 | 3301320 | Body Corner Piece-327mm | 4 |
| 23 | 3612399 | Puck Release Bay with LED | 4 |
| 24 | 3303648 | Puck Slide (362 x 200 x 8mm) | 4 |
| 26 | 3501053QJ | QuadAir Jr. Black Rubber Perimeter Rail Trim | 1 |

| Ref # | Part # | Description | Qty |
|--------------|---------------|---|------------|
| 27 | 616030028 | Leg Leveler | 4 |
| 28 | 616030029 | Air Hockey Leg (400mm) | 4 |
| 29 | 616030034 | QuadAir Jr. Goal Bar Red | 2 |
| 30 | 616030035 | QuadAir Jr. Goal Bar Green | 2 |
| 31 | 3704009 | Play Field Aeresol Polish (non-ammonia) | 1 |
| 32 | 616030001 | Hockey Mallet (Orange) w/Rubber Grip | 4 |
| 33 | 616030002 | Hockey Mallet (Blue) w/Rubber Grip | 4 |
| 34 | 3399184 | Barron Pucks | 20 |
| 35 | 3612400 | QuadAir Jr. LED Game Over Panel | 4 |
| 36 | 3612398 | QuadAir Jr. LED Countdown Timer Circle | 1 |
| 37 | 3301354 | Corner Mallet Holder | 4 |
| 38 | 3601216 | European Power Cord | 1 |
| 39 | 3605107 | Isolation Transformer 220V | 1 |
| 40 | 3202118 | Short Lock Assembly | 8 |
| 41 | 616030053 | V3 Goal Gate Assembly (RED PCB ONLY) | 4 |
| 42 | 616030046 | Coin Mech Faceplate | 4 |
| 44 | 3213517 | Power Cord Security Clip | 1 |
| 45 | 3612396 | QuadAir Jr. Multi-color Interior Rail LED Strip | 8 |
| 46 | 3612394-Quad | QuadAir Jr. Main PCB-B606 Blue Back | 1 |
| 47 | 3712120 | Cash Box | 1 |
| 49 | 3207511 | QuadAir Jr. Rail 1728 | 4 |
| 50 | 3503292 | QuadAir Jr. Panther side sticker | 2 |
| 51 | 3503293 | QuadAir Jr. Zebra side sticker | 2 |

**For Parts and Technical
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