

Service Manual

Innovative Concepts in Entertainment

10123 Main Street Clarence, New York 14031 (716) 759-0360 8:30am to 6:00pm EST WWW.ICEGAME.COM

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SAFETY AND WARNINGS BEFORE YOU BEGIN

WARNING: WHEN INSTALLING THIS GAME, A GROUNDED A.C. RECEPTACLE MUST BE USED. FAILURE TO DO SO COULD RESULT IN INJURY TO YOURSELF OR OTHERS. FAILURE TO USE A GROUNDED RECEPTACLE COULD ALSO CAUSE IMPROPER GAME OPERATION, OR DAMAGE TO THE ELECTRONICS.

NOTE: THIS GAME IS INTENDED FOR INDOOR USE ONLY.

DO NOT DEFEAT OR REMOVE THE GROUNDING PRONG ON THE POWER CORD FOR THE SAME REASON AS GIVEN ABOVE. USING AN IMPROPERLY GROUNDED GAME COULD VOID YOUR WARRANTY.

HAVE A QUALIFIED ELECTRICIAN CHECK YOUR A.C. RECEPTACLE TO BE SURE THE GROUND IS FUNCTIONING PROPERLY.

THIS GAME IS DESIGNED TO DISSIPATE STATIC ELECTRICITY THROUGH THE GROUNDING PLANE OF THE GAME. IF THE A.C. GROUND DOES NOT WORK, THE GAME COULD DISCHARGE STATIC ELECTRICITY THROUGH THE GAME CIRCUITRY, WHICH COULD CAUSE DAMAGE.

THE POWER SUPPLY IS NOT VOLTAGE ADJUSTABLE. TO OPERATE THE GAME AT VOLTAGES OTHER THAN THOSE IT WAS DESIGNED FOR. PLEASE CONTACT OUR SERVICE DEPARTMENT FOR VOLTAGE CONVERSION INFORMATION.

WARNING

DO NOT remove any of the components on the main board (e.g. compact flash and eproms) while the game is powered on. This may cause permanent damage to the parts and the main board. Removing any main board component part while powered on will void the warranty.

ALWAYS REMOVE POWER TO THE GAME, BEFORE ATTEMPTING ANY SERVICE,

UNLESS NEEDED FOR SPECIFIC TESTING. FAILURE TO OBSERVE THIS PRECAUTION

COULD RESULT IN SERIOUS INJURY TO YOURSELF OR OTHERS.

THIS GAME IS NOT SUITABLE FOR INSTALLATION IN AN AREA WHERE A WATER JET COULD BE USED.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

AC Power Information

The games main fuse is accessed through the back of the game at the power mod. Above the power cord is a small panel that contains the main fuse.

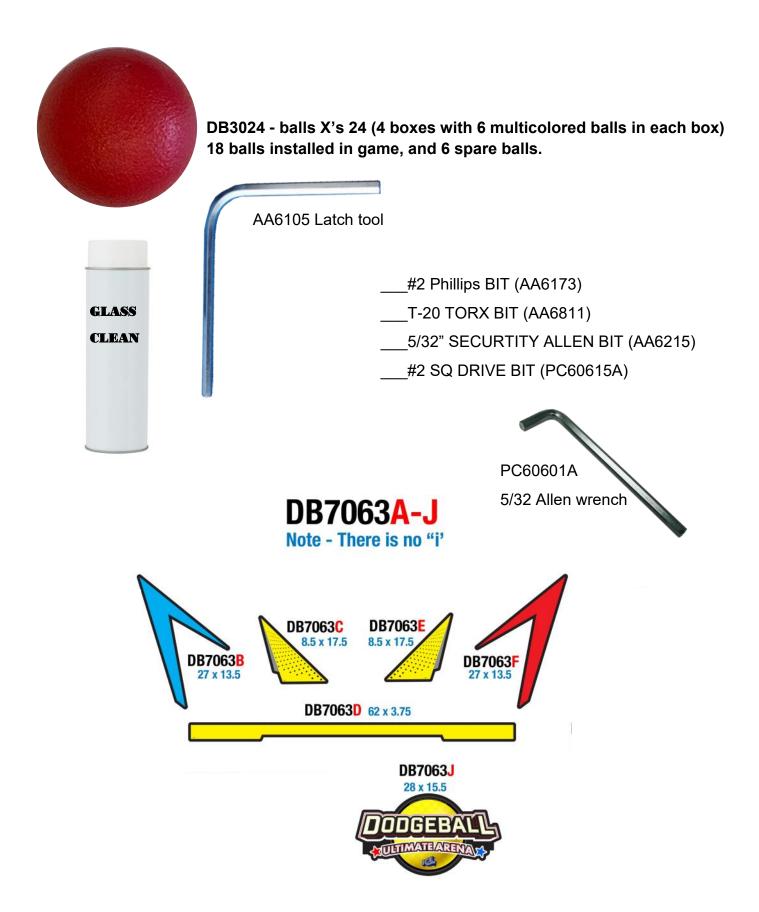
The value of the fuse for 120 volt users is 8 AMPS at 250Volt type slow blow.

HARDWARE LIST

E08639 HARNESS CLAMP

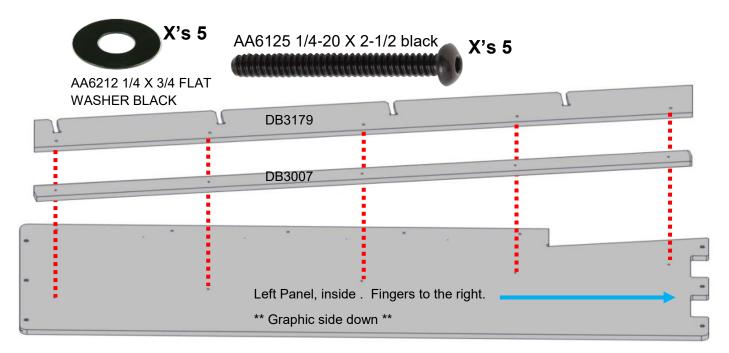


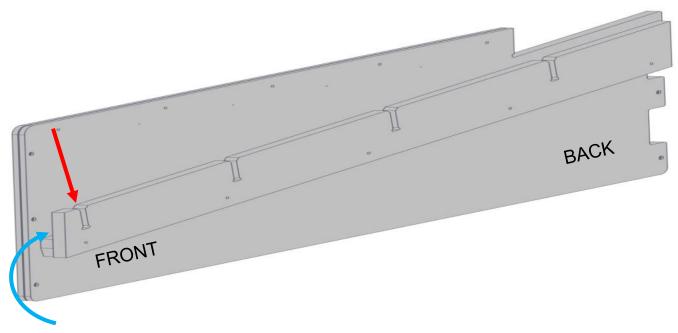
NON-HARDWARE ITEMS INCLUDED WITH PARTS PACK



STEP 1:

Locate the left side panel, DB3007, and DB3179. Lay the left panel, *graphics side down* and fingers to the right. Place the DB3007 inside the left panel. Place the DB3179 on top of the DB3007 with the first slot closest to the left. Attach them to the left side panel using five AA6125 black Allen bolts and AA6212 black washers.

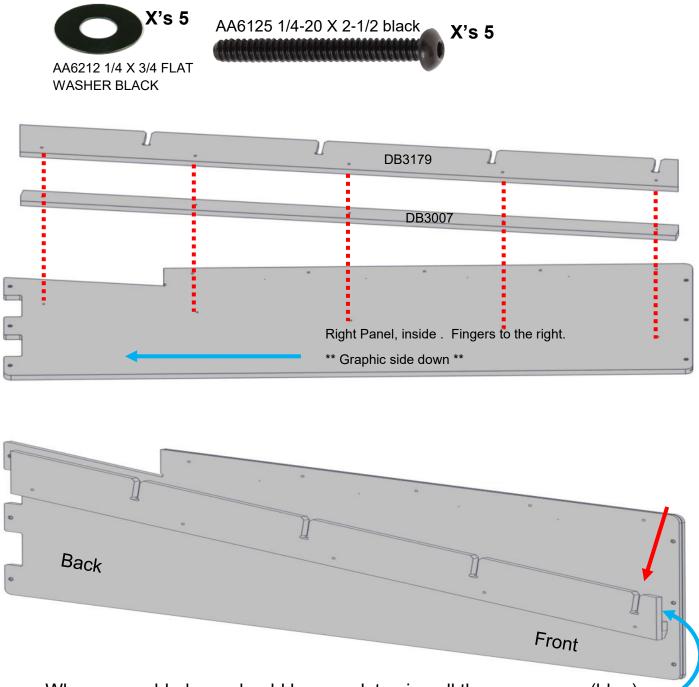




When assembled you should have a slot going all the way across (blue). First slot must be at the front of the assembly (fingers are the back) (Red).

STEP 2:

Locate the right side panel, DB3007, and DB3179. Lay the right panel, *graphics side down* and fingers to the left. Place the DB3007 inside the right panel. Place the DB3179 on top of the DB3007 with the first slot closest to the right. Attach them to the right side panel using five AA6125 black Allen bolts and AA6212 black washers.

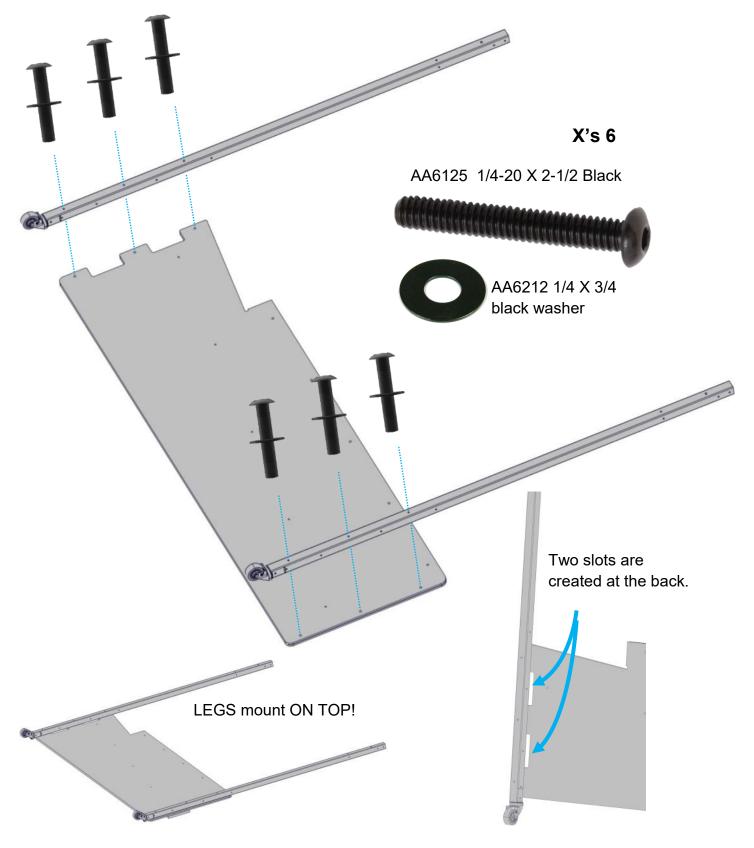


When assembled you should have a slot going all the way across (blue). First slot must be at the front of the assembly (fingers are the back) (Red).

STEP 3:

Attach two legs to the left side panel, graphics facing up, using three AA6125 Allen bolts and three AA6212 black flat washers on each leg. The legs should be on top of the outside of the panel.

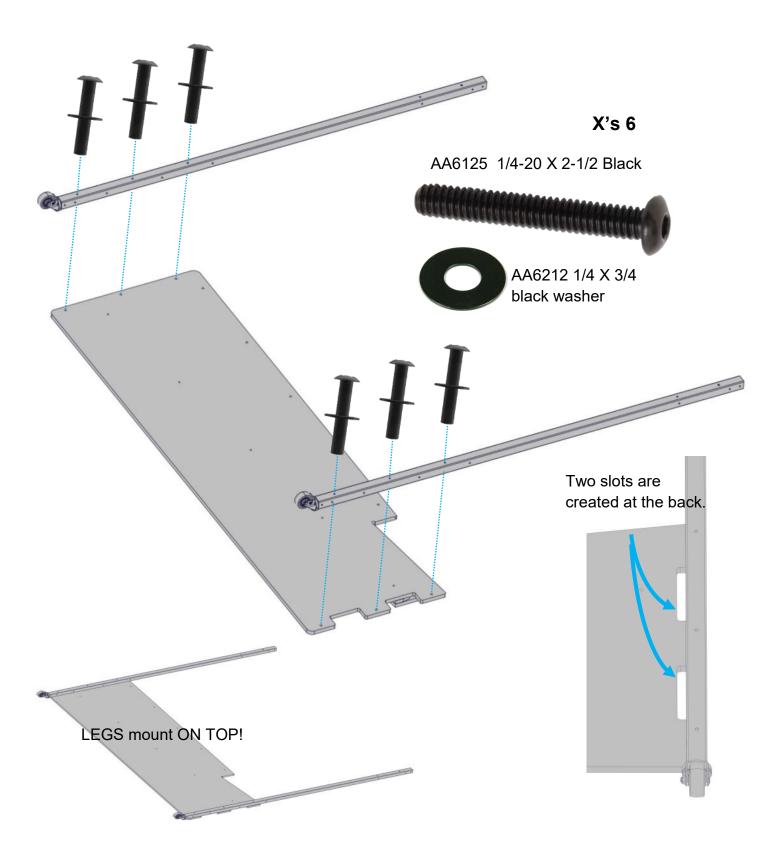
Graphics should be on facing at you. Db3179 & DB3007 should be facing ground.



STEP 4:

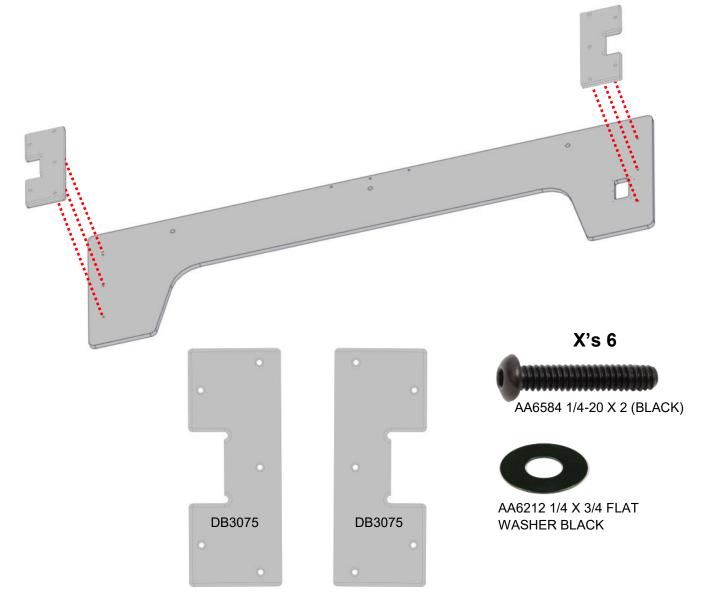
Attach two legs to the right side panel, graphics facing up, using three AA6125 Allen bolts and three AA6212 black flat washers on each leg. The legs should be on top of the outside of the panel.

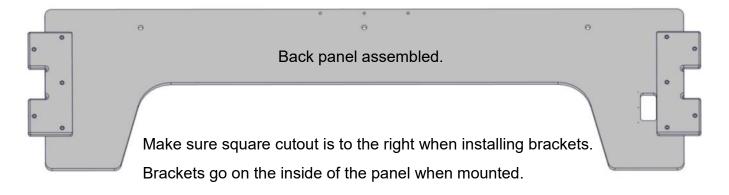
Graphics should be on facing at you. Db3179 & DB3007 should be facing ground.



STEP 5:

Attach two DB3075 brackets to each side of the back wall panel using three AA6584 black Allen bolts and AA6212 black washers. Brackets when installed should be on the inside of the panel. See mounted brackets and pay attention to the Square cut out on the right side.





STEP 6:

Slide the back wall assembly into the left wall back slots you created when you installed the back legs.

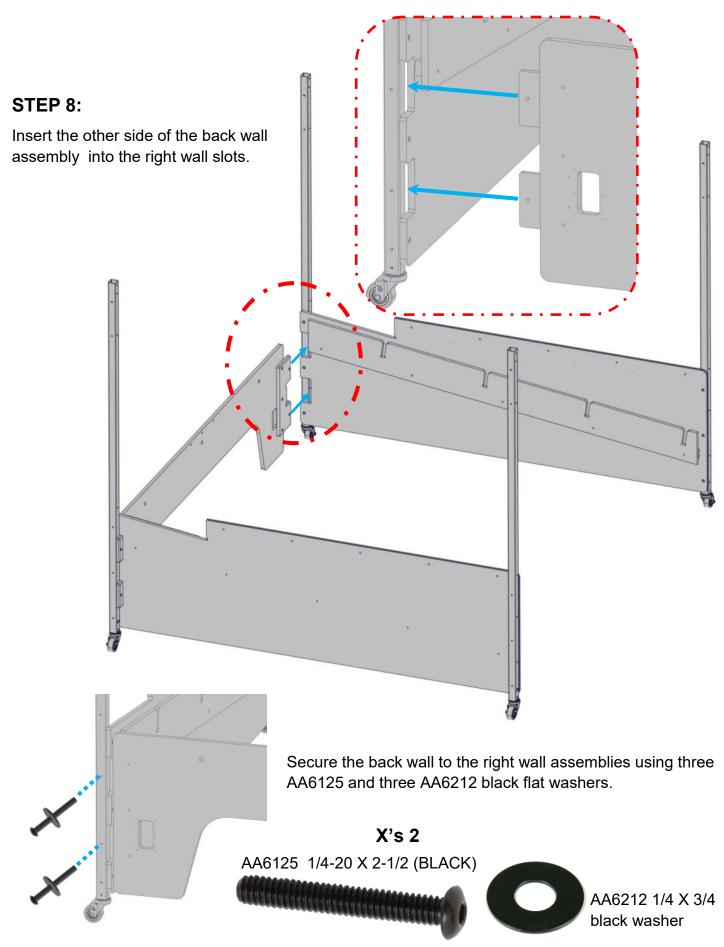
STEP 7:

Secure the back wall to the left side wall assembly using two AA6125 and two AA6212 black flat washers.



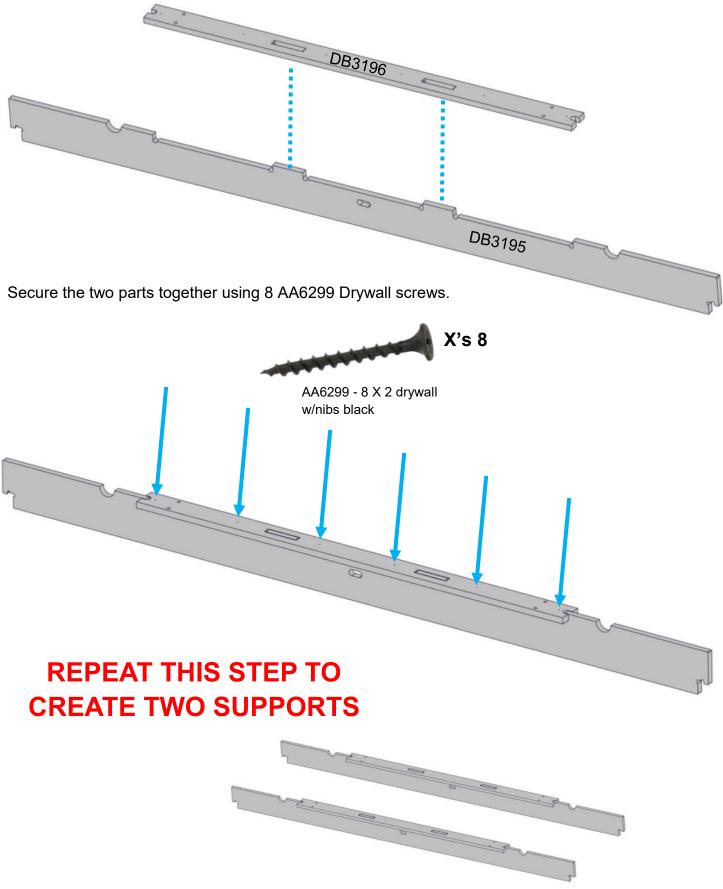
AA6212 1/4 X 3/4 FLAT WASHER BLACK

AA6125 1/4-20 X 2-1/2 (BLACK)



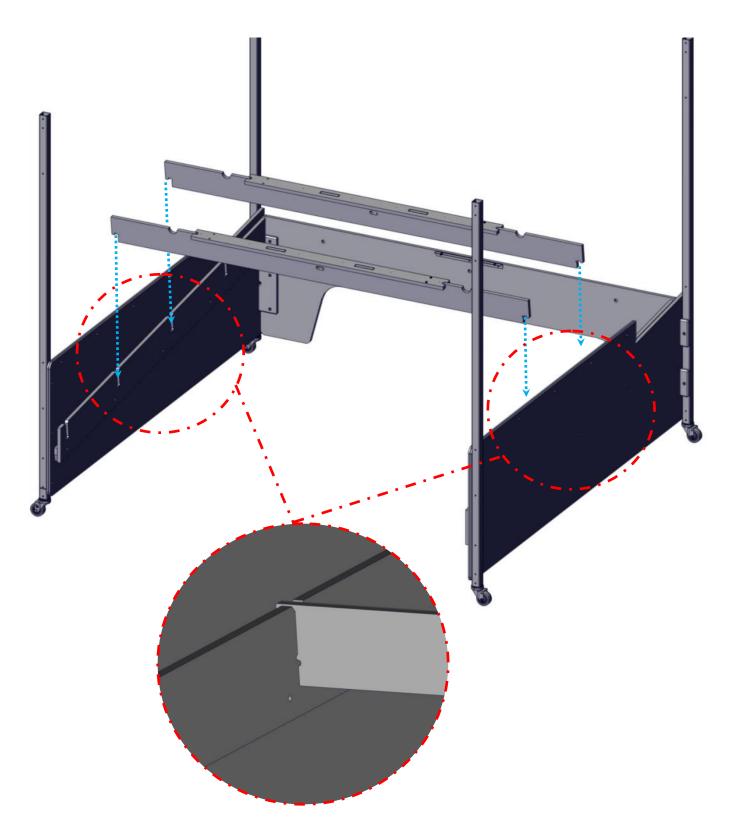
STEP 9:

Insert a DB3196 into the center two tabs of the DB3195. The tabs go into the slots.



STEP 10:

Slide two stringers into the two inner channels shown. NO HARDWARE is used to secure them.



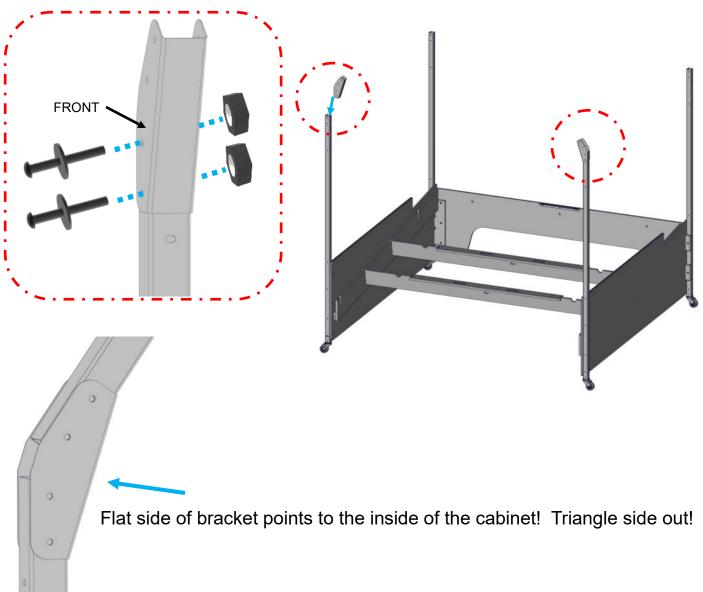


DB1032 Upper Support Bracket

STEP 11:

Slide the upper DB1032 support brackets onto the front legs at both sides. Attach using two AA6125 Allen bolts and AA6212 washers from the front and secure them with AA6966 nylon nuts at the back.

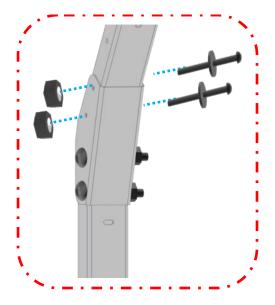
KEEP HARDWARE LOOSE TO ALLOW EASIER ALIGNMENT OF HOLES.





STEP 12:

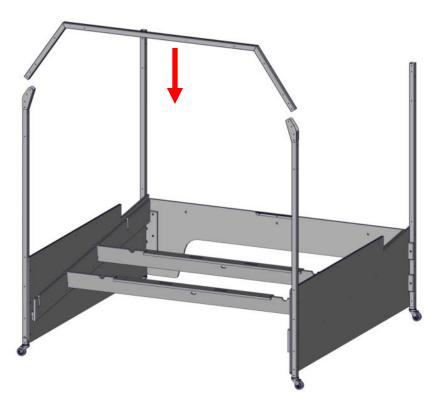
Slide the upper support onto the brackets at the front of the game.

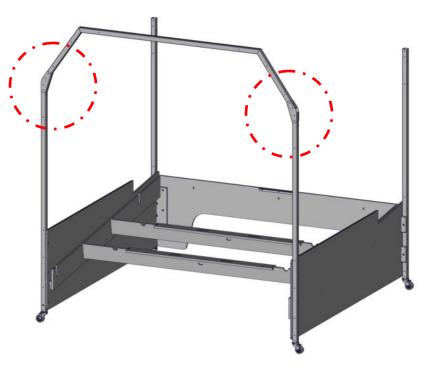


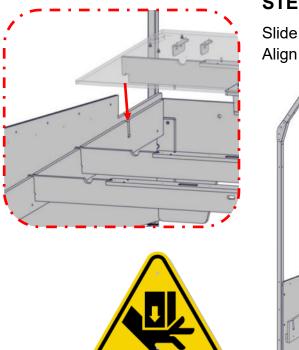
Secure the support using two AA6125 Allen bolts and AA6212 washers from the backside and secure them with AA6966 nylon nuts at the front.

TIGHTEN ALL HARDWARE ONLY WHEN ALL BOLTS ARE INSTALLED!



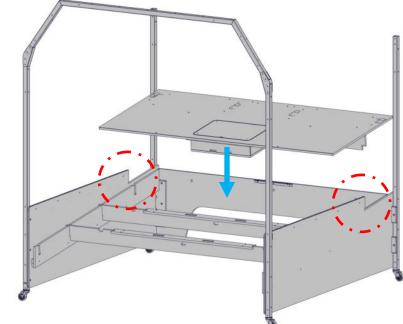






STEP 13:

Slide the back floor assembly into the rear channels. Align the tabs into the slots. WATCH YOUR FINGERS!

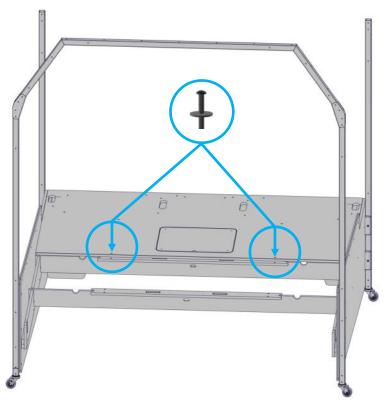


NOTE: Although all efforts we made to ensure quality in parts, before installing this panel, inspect the panel for damage to wiring or mounting holes not fully cleaned out.

STEP 14:

Secure the back floor assembly using two AA6584 black Allen bolts and AA6212 black washers.

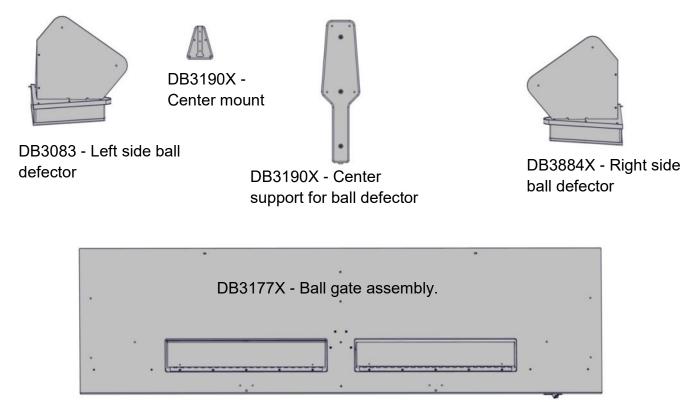




STEP 15:

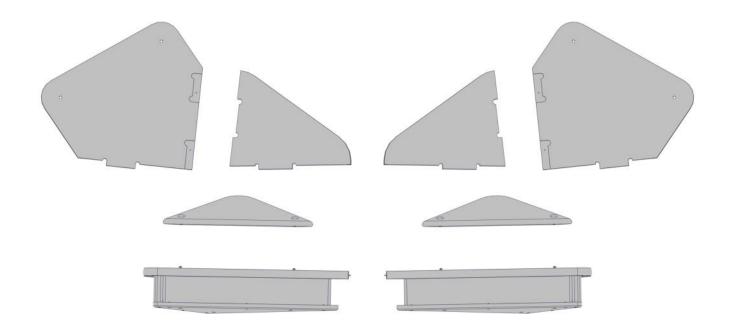
Locate the components shown below to assembly the ball gate assembly.

The two DB3186 ball deflectors are not installed at this time.



STEP 16: Assembly of DB3083X and DB3884X (TECH SHOP WORK!)

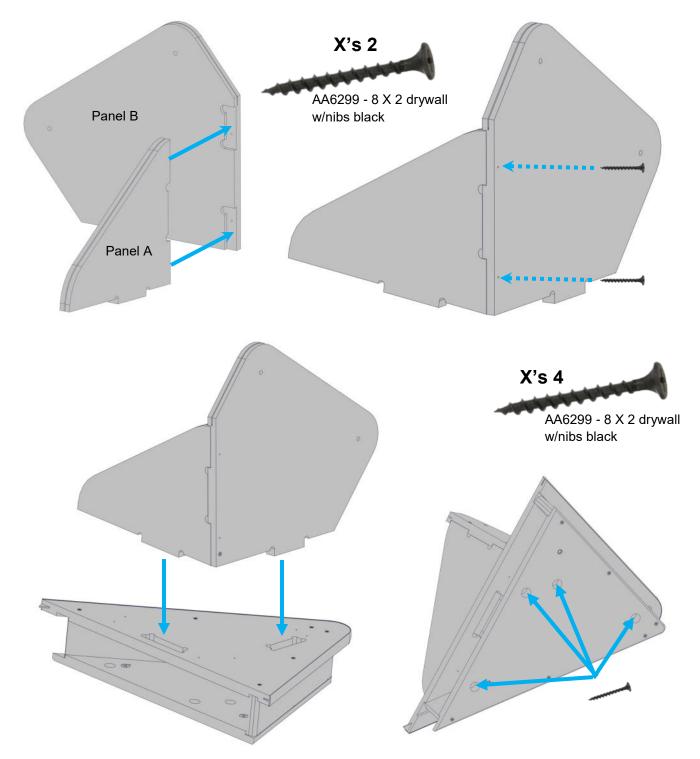
Locate the components shown below.



STEP 17:

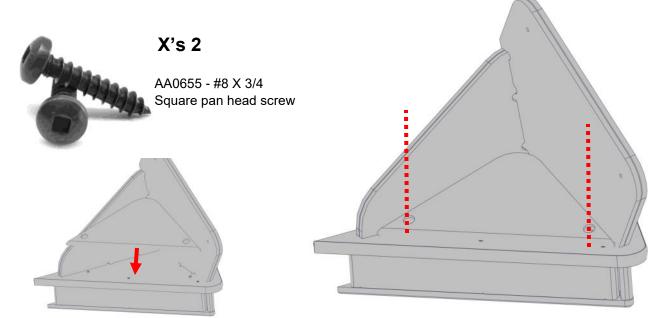
Insert panel A's tabs into panel B's slots. They will form a 90 degree wall. Secure them together using two AA6299 Drywall screws. Be sure to drive the screw in straight and flush to the surface of the panel.

Insert this into the base and secure using four AA6299 drywall screws.

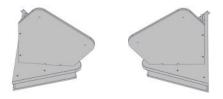


STEP 18:

Place the ABS black deflector in the corner and attach using two AA0655 square bit screws.

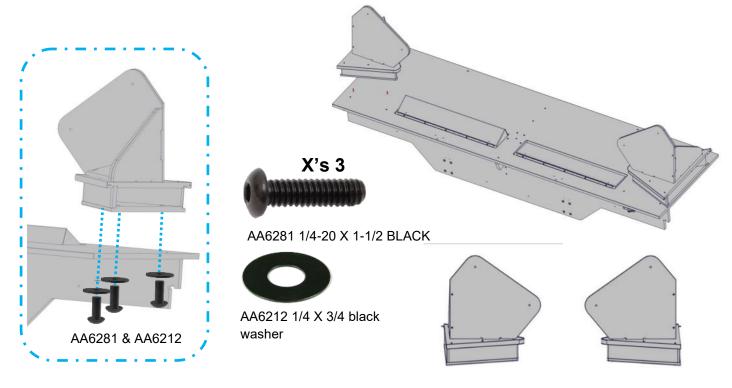


Repeat steps 17 and 18 to make the other assembly.

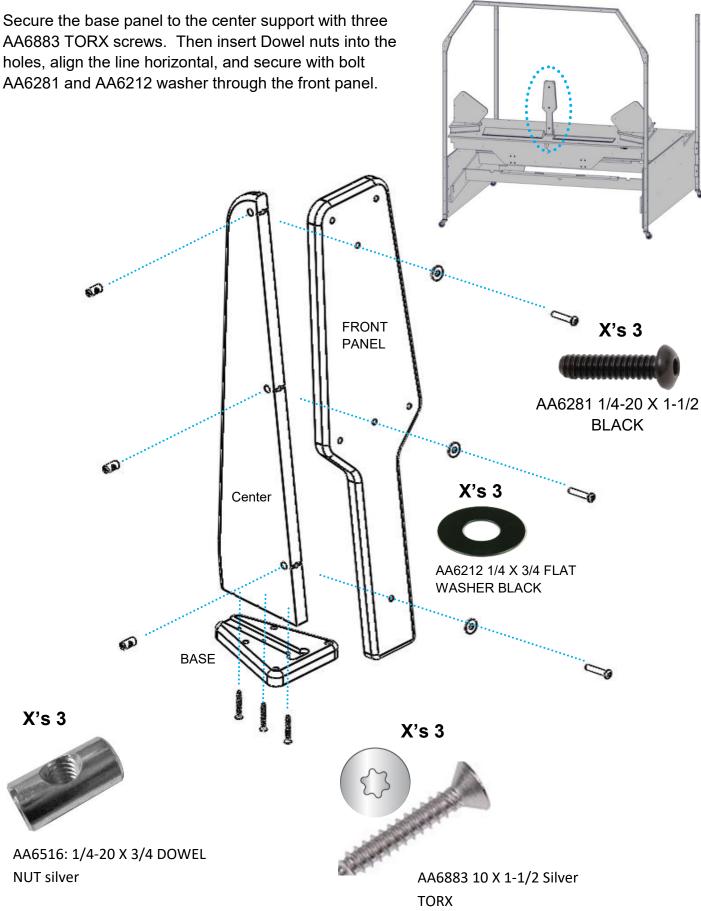


STEP 19:

Secure both left and right ball deflectors to the ball gate assembly using three AA6281 black Allen bolts and AA6212 black washers on each deflector. Hardware comes from the bottom through the floor into the deflectors.

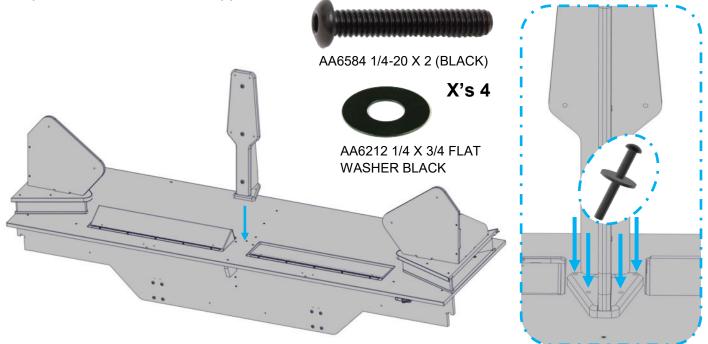


STEP 20:



STEP 21:

Attach the center support with four AA6584 black Allen bolts and four AA6212 black washers from the top and at the back of the support.

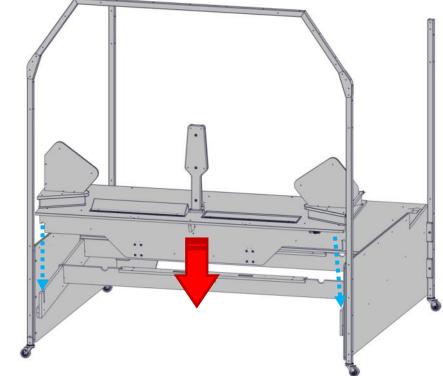


STEP 22:

Slide the ball gate assembly into the front slot of the base cabinet. Watch your fingers!

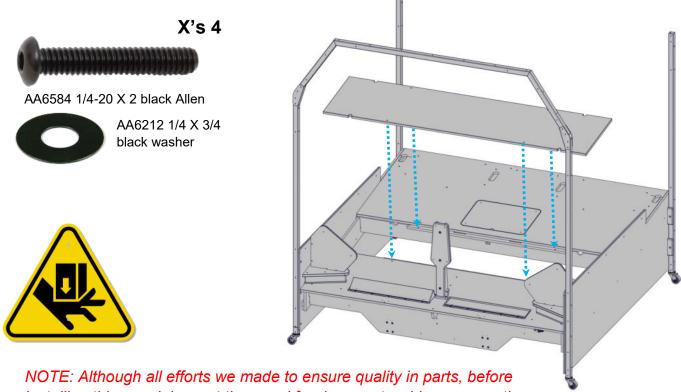
DO NOT SECURE AT THIS TIME.

NOTE: Although all efforts we made to ensure quality in parts, before installing this panel, inspect the panel for damage to wiring or mounting holes not fully cleaned out.



STEP 23:

Secure the middle floor assembly using four AA6584 black Allen bolts and AA6212 black washers.



NOTE: Although all efforts we made to ensure quality in parts, before installing this panel, inspect the panel for damage to wiring or mounting holes not fully cleaned out.

STEP 24:

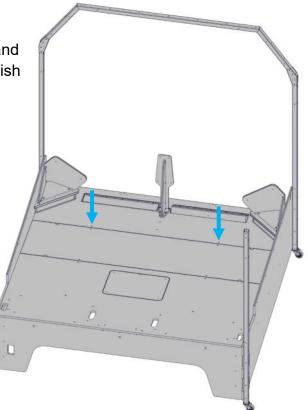
Secure the ball gate with two AA6584 black Allen bolts and AA6212 black washers shown with arrows. (This is to finish securing from Step 18)







AA6212 1/4 X 3/4 black washer



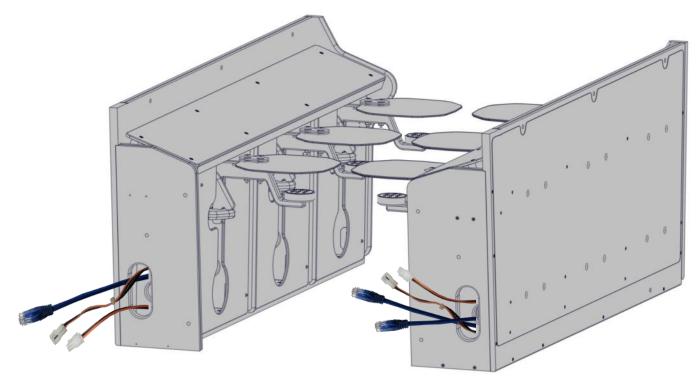
STEP 25:

If not installed, install decal graphics at front of game shown below.



STEP 26:

Lay the left and right Towers on their backs. At the bottom of the left tower should be one network cord and two DC connections (one small, one large). Carefully pull them out and ensure no damage has been done to the network cable. At the bottom of the right tower should be two network cords and two DC connections (one small, one large). Carefully pull them out and ensure no damage has been done to the network cables. It might be possible that the network cables can "catch" on internal wiring inside the towers. Wiggle the cable up, down, back and fourth until it is free.



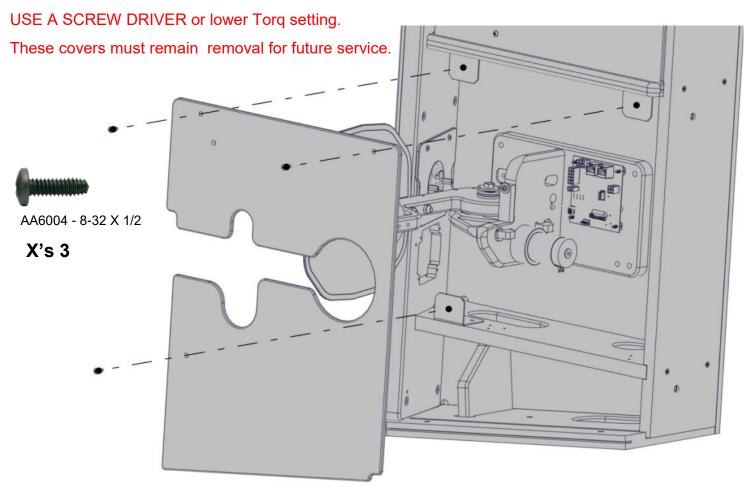
STEP 27:

Position DB3060AX target assembly to the left and DB3060BX target assembly to the right at the back of the cabinet. Align the hole at the bottom of the towers with the holes already at the back.

Secure using three AA6584 black Allen bolts and AA6212 black washers. Use the Allen wrench to access the back bolt inside. AA6584 1/4-20 X 2 (BLACK) AA6212 1/4 X 3/4 FLAT WASHER BLACK X's 3 0 • 10 Mar booling Push ethernet and power cables to the bottom of the game.

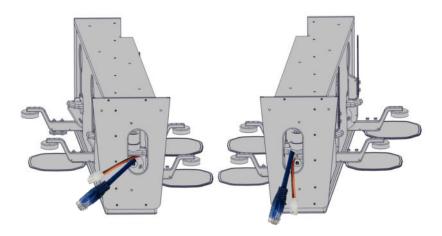
STEP 28:

Install the lower panel covers to both score towers using three AA6004 each.



STEP 29:

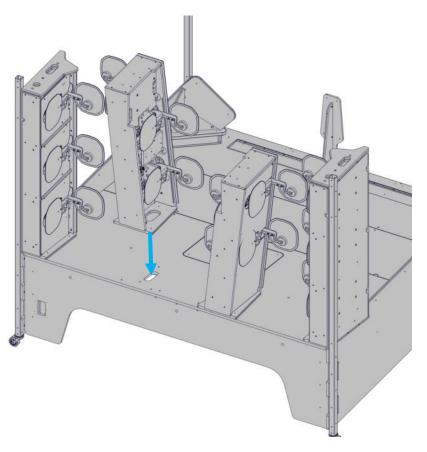
Lay the left and right middle Towers on their backs. Both towers should have one network cord and one DC connection (one large). Carefully pull them out and ensure no damage has been done to the network cables. It might be possible that the network cables can "catch" on internal wiring inside the towers. Wiggle the cable up, down, back and fourth until it is free.



STEP 30:

Position DB3030AX target assembly to the left and DB3030BX target assembly to the right at the back of the cabinet. Align the hole at the bottom of the towers with the holes already at the back.

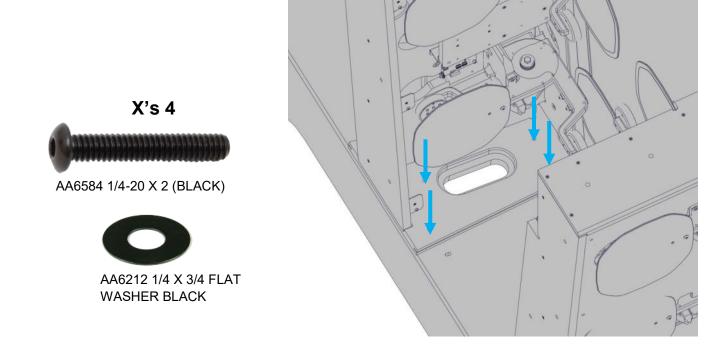
T-Molding goes to the bottom!



STEP 31:

Secure each tower using four AA6584 black Allen bolts and AA6212 black washers.

Do not install tower covers at this time.

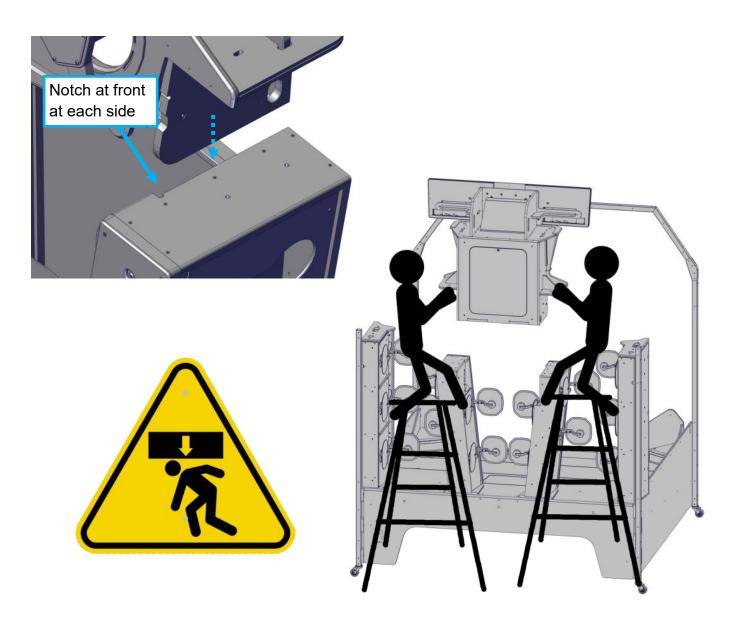


STEP 32:

THIS STEP REQUIRES HELPERS! DO NOT ATTEMPT TO LIFT ALONE! RECOMMEND THREE PEOPLE TO INSTALL THIS ASSEMBLY. DO NOT ATTEMPT TO INSTALL FROM THE FRONT! THIRD PERSON POSITION SHOULD BE AT THE FRONT, INSIDE THE CABINET TO MOUNT HARDWARE AND STABILIZE CENTER TARGET/JUMBOTRON ASSEMBLY.

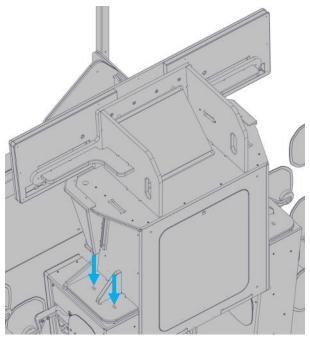
Lift the DB3116X Center target assembly up and onto the center two score towers.

There are slots the assembly fits into. The assembly will not evenly fit between the two towers unless it is in aligned to the slots.



STEP 33:

Secure each tower using three AA6584 black Allen bolts and AA6212 black washers.



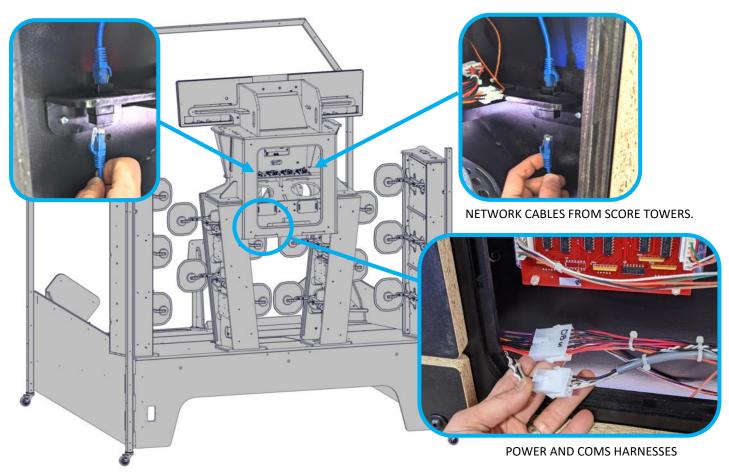
Use two AA6584 black Allen bolts and AA6212 black washers on each side of the center target assembly.



STEP 34:

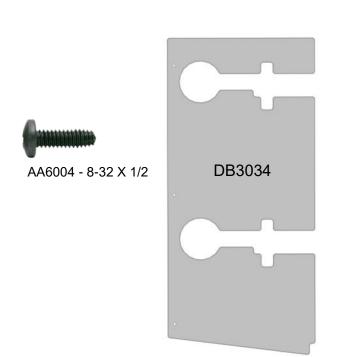
From the back of the game connect the power and coms harnesses.

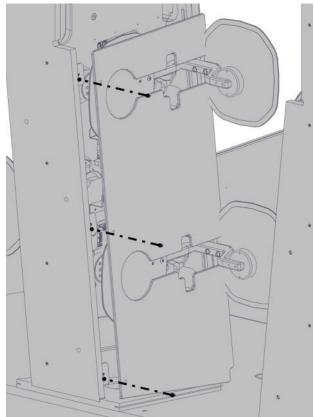
Then connect one ethernet cable from each center score tower to the center score assembly.



STEP 35:

On each tower and on both sides attach a DB3034 cover using three AA6004 black Allen bolts and AA6212 black washers.



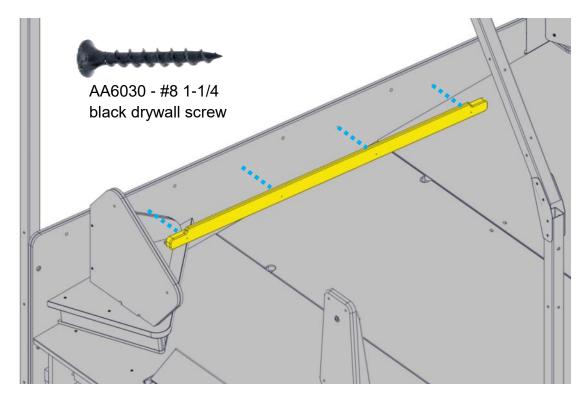


STEP 36:

Attach on the inside for left and right sides a DB3038 using four AA6030 screw.

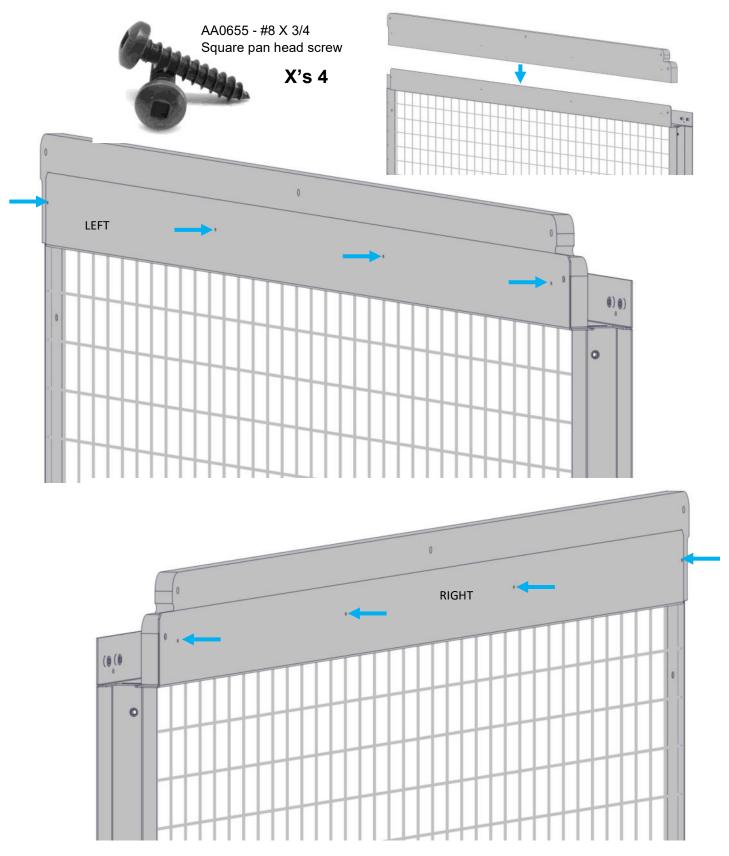
Screws go on the outside.

BOTH SIDES! ONLY ONE SIDE IS SHOWN.



STEP 37:

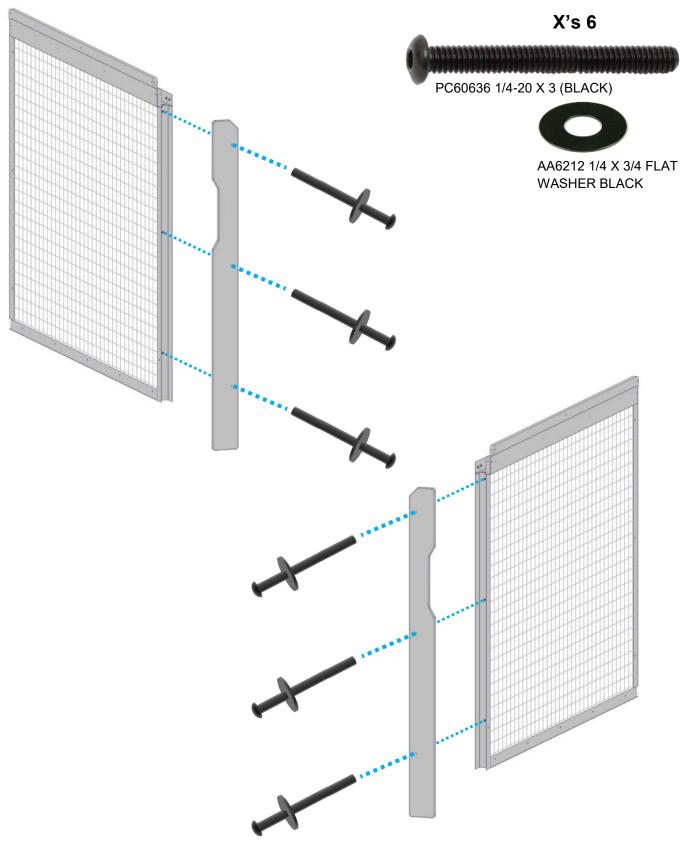
Position the cage trim on top of both cages and attach them using four AA0655 square screws per cage. The notch side is the front. On some cages, a rubber hammer is needed to install the top panel.



STEP 38:

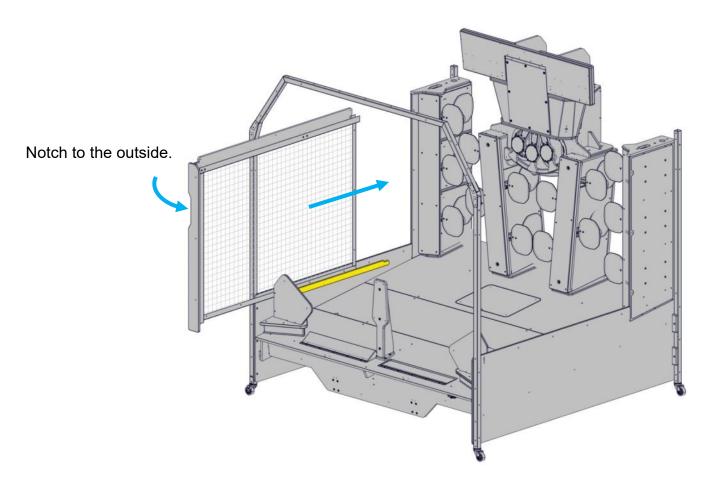
Attach a DB3199 to each cage front using three PC60636 black Allen bolts and AA6212 black washers. The notch faces to the outside of the cage.

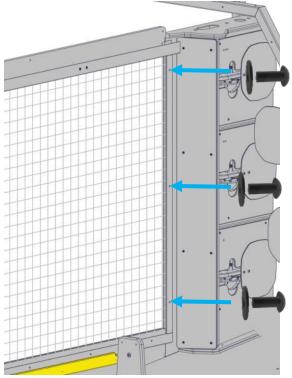
It is necessary to raise the cages off the ground to install.



STEP 39:

Slide the left cage assemble on the inside trim you installed in step 26 and against the back tower.





STEP 40: DO NOT TIGHTEN HARDWARE

Loosely secure the cage to the back tower using three PC60622 black Allen bolts and AA6212 black washers from the inside of the cabinet.

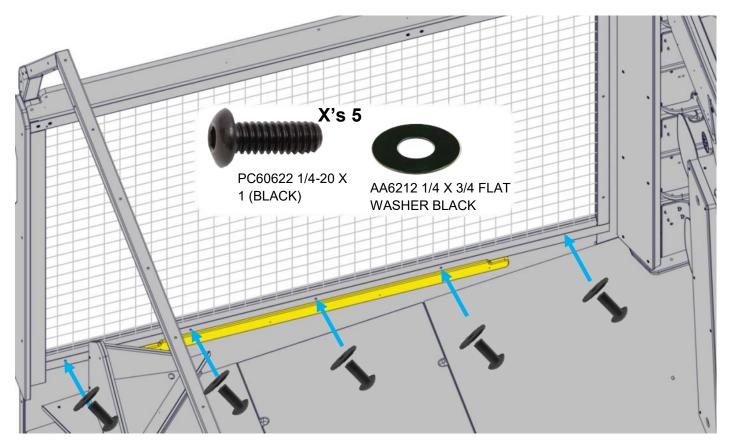




AA6212 1/4 X 3/4 FLAT WASHER BLACK

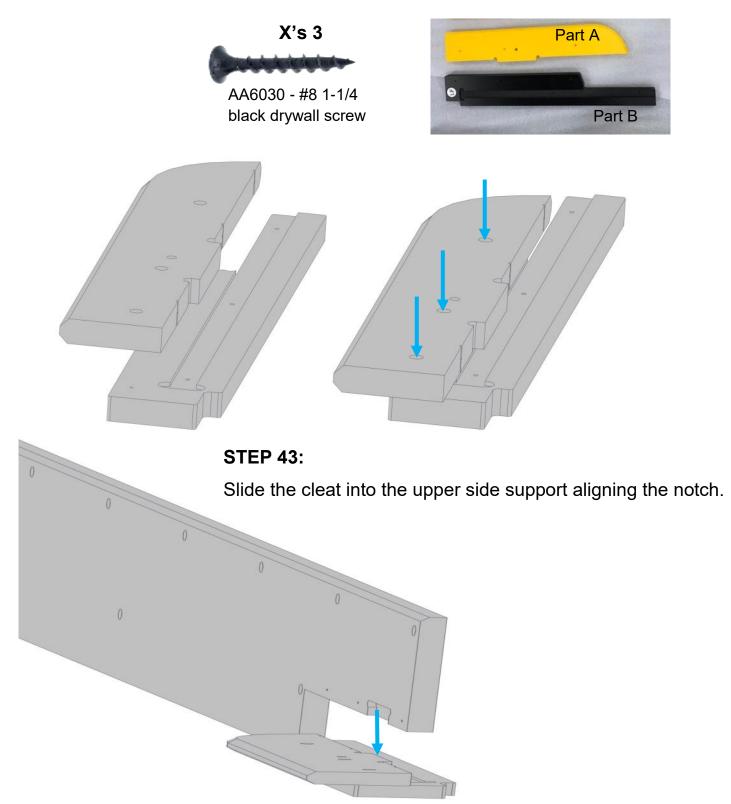
STEP 41: DO NOT TIGHTEN HARDWARE

Loosely secure the cage bottom to the cabinet using five PC60622 black Allen bolts and AA6212 black washers from the inside of the cabinet.



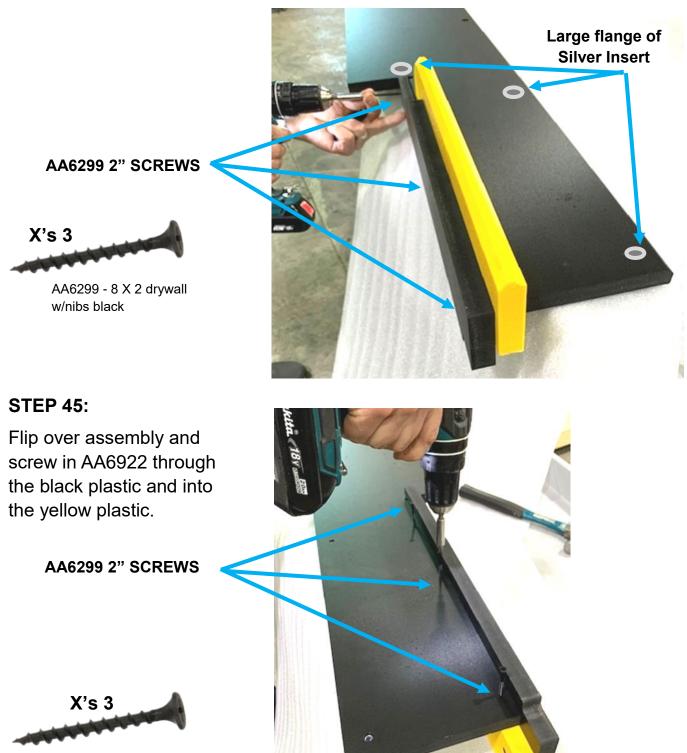
STEP 42:

Assembly the left cleat assembly by putting three AA6030 screws far enough into the yellow plastic so it protrudes slightly out the other side. Then line up the screw tips with the pilot holes in the black plastic (NOTE: Black plastic GROOVE SIDE UP as pictured. & Note: Yellow Plastic is universal and can be used on either LEFT or Right side panel.



STEP 44:

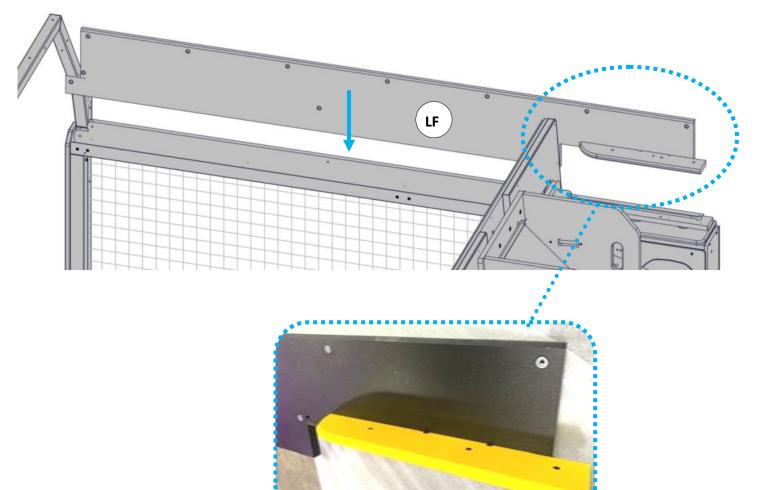
Place the cleat onto the bottom edge of the LEFT side panel and secure with AA6922 three 2" WOOD SCREWS. Note: The yellow plastic should be on the same side as the large flange of the silver insert. If it is not, then find the other panel.



AA6299 - 8 X 2 drywall w/nibs black

STEP 46:

Slide the top DB3158 side panel onto the left cage top, yellow to the inside.



STEP 47:

Repeat steps 42 through 45 for the RIGHT side panel assembly.

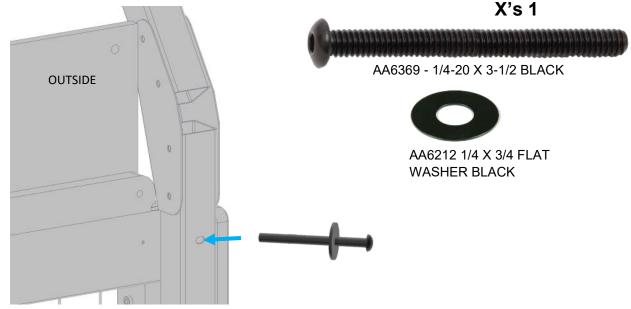
DO NOT INSTALL RIGHT SIDE AT THIS TIME(NO CAGE HAS BEEN INSTALLED)

Note: Yellow Plastic is universal and can be used on either LEFT or RIGH side panel.



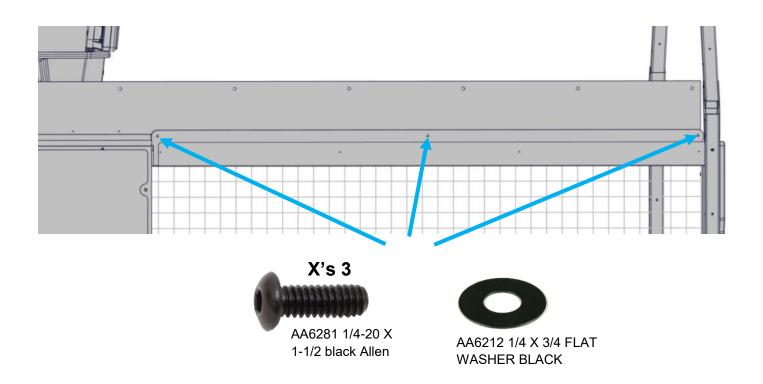
STEP 48:

Secure the cage to the front cabinet legs using one AA6369 Black Allen Bolt and AA6212 black washer.



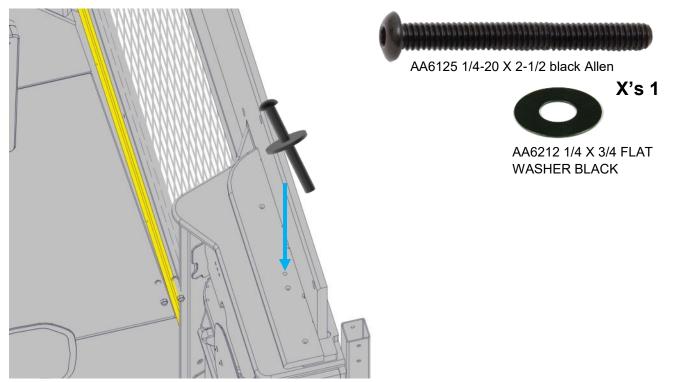
STEP 49:DO NOT TIGHTEN HARDWARE

Secure the cage to the DB3158 using three AA6281 Black Allen Bolts and AA6212 black washers.



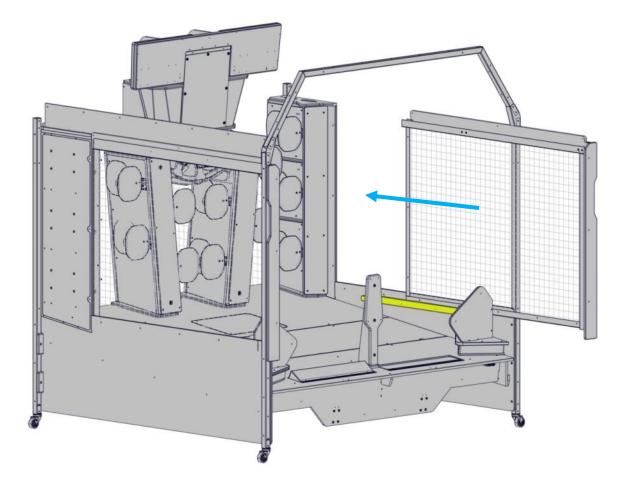
STEP 50:

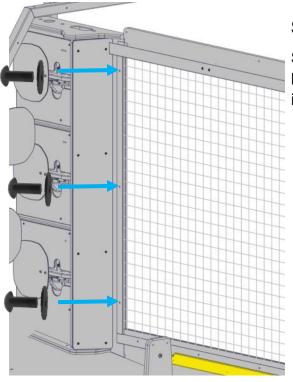
Secure the cage assembly to the back tower with one AA6125 black bolt and AA6212 black washer.



STEP 51:

Slide the right cage assemble on the inside trim you installed in step 26 and against the back tower.





STEP 52: DO NOT TIGHTEN HARDWARE

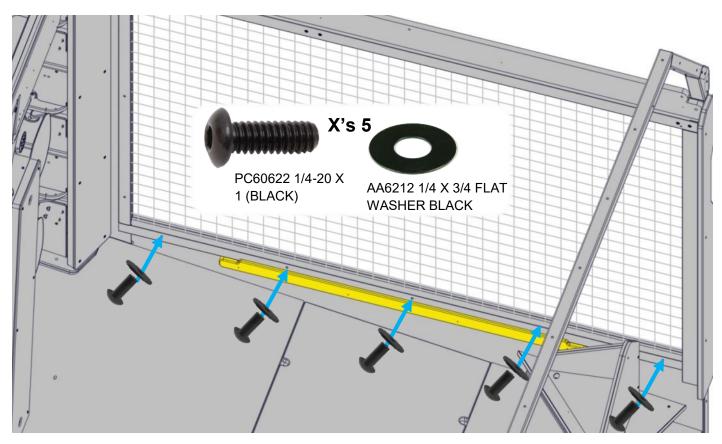
Secure the cage to the back tower using three PC60622 black Allen bolts and AA6212 black washers from the inside of the cabinet.



AA6212 1/4 X 3/4 FLAT WASHER BLACK

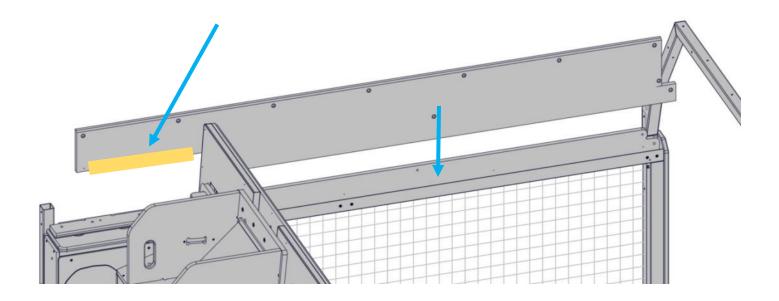
STEP 53: DO NOT TIGHTEN HARDWARE

Secure the cage bottom to the cabinet using five PC60622 black Allen bolts and AA6212 black washers from the inside of the cabinet.



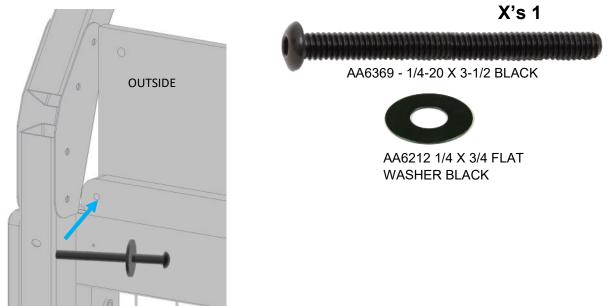
STEP 54

Slide the top DB3158 side panel onto the right cage top.



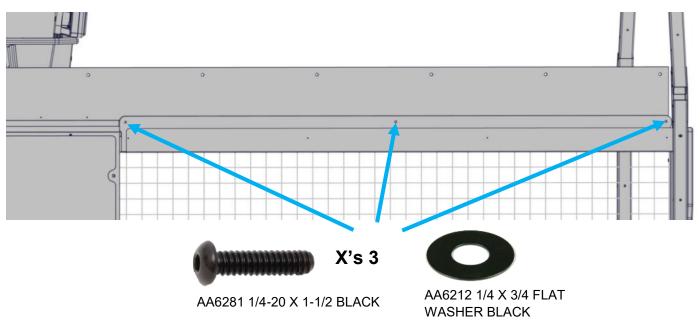
STEP 55:

Secure the cage to the front cabinet legs using one AA6369 Black Allen Bolt and AA6212 black washer.



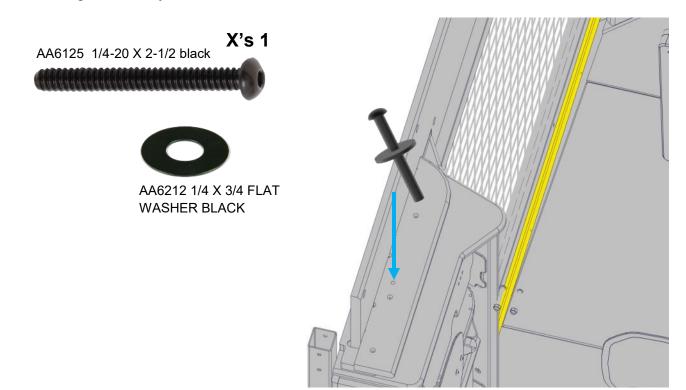
STEP 56:

Secure the cage to the DB3158 using three AA6281 Black Allen Bolts and AA6212 black washers.



STEP 57:

Secure the cage assembly to the back tower with one AA6125 black bolt and AA6212 black washer.

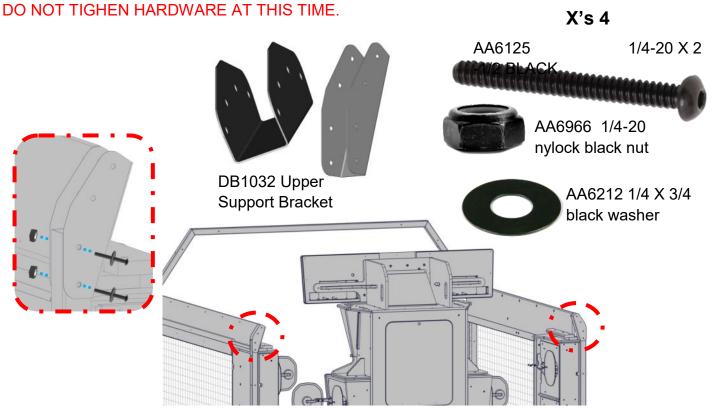


STEP 58:

Tighten all hardware for the cages.

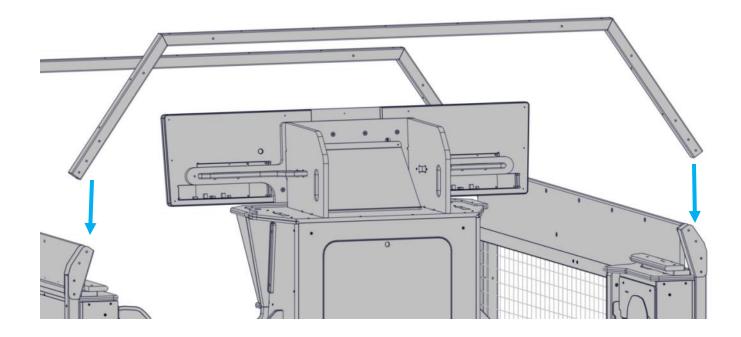
STEP 59:

Slide the upper DB1032 support brackets onto the back legs at both sides. Loosely attach two AA6125 Allen bolts and AA6212 washers from the front and secure them with AA6966 nylon nuts at the back.



STEP 60:

Slide the back arch into the brackets



STEP 61:

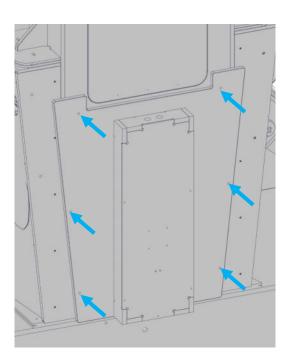
Loosely secure the arch using two AA6125 Allen bolts and AA6212 washers from the backside and secure them with AA6966 nylon nuts at the front on both sides.

DO NOT TIGHTEN AT THIS TIME.



STEP 62: DO NOT TIGHTEN HARDWARE

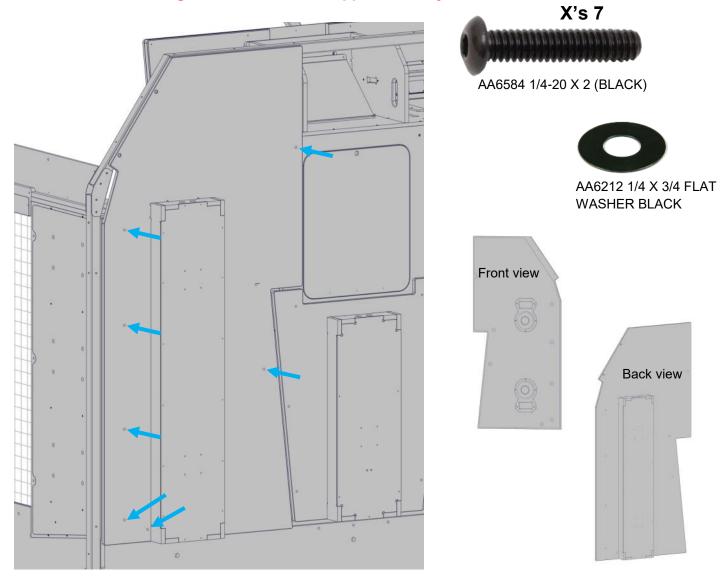
Install the center back panel to the back of the game loosely with six AA6584 black Allen bolts and AA6212 black washers.





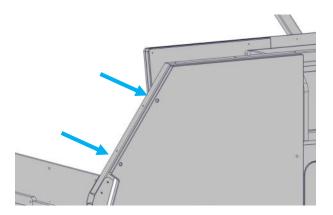
STEP 63:

Install the left back panel to the back of the game using seven AA6584 black Allen bolts and AA6212 black washers. **You might have to shift the upper archway bar.**



STEP 64:

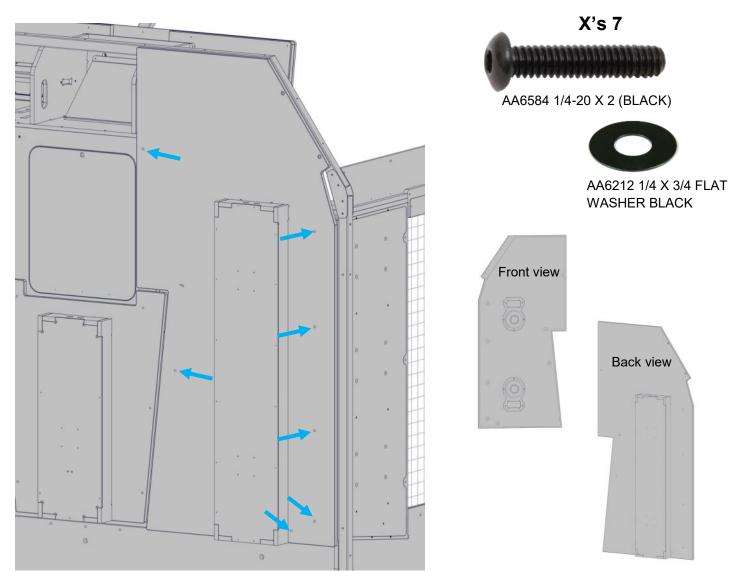
From inside the game, secure the left back panel to the upper arch using two AA6125 black Allen bolts and AA6212 black washers.





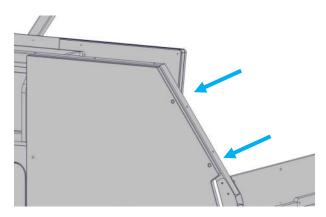
STEP 65:

Install the right back panel to the back of the game using seven AA6584 black Allen bolts and AA6212 black washers. You might have to shift the upper archway.



STEP 66:

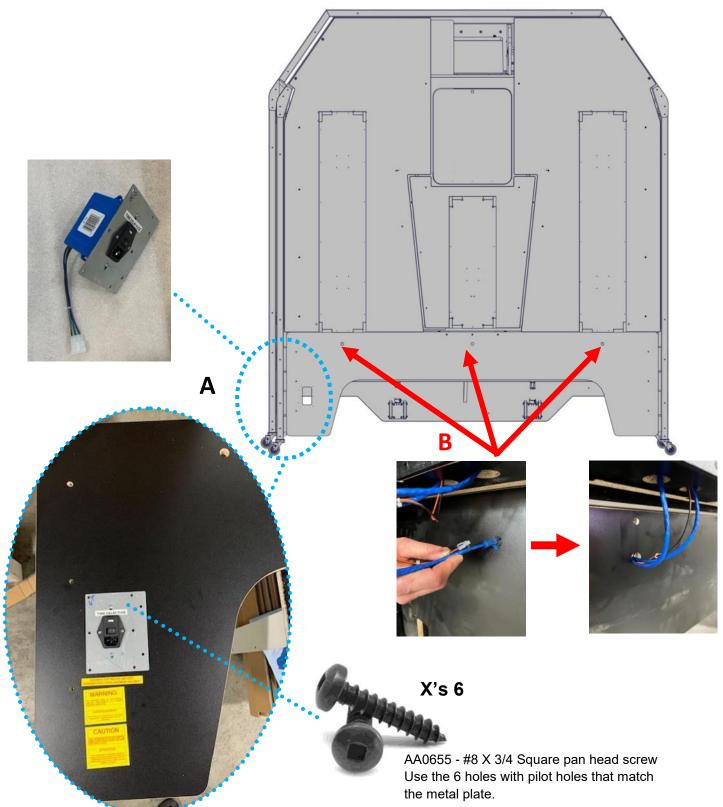
From inside the game, secure the left back panel to the upper arch using two AA6125 black Allen bolts and AA6212 black washers.



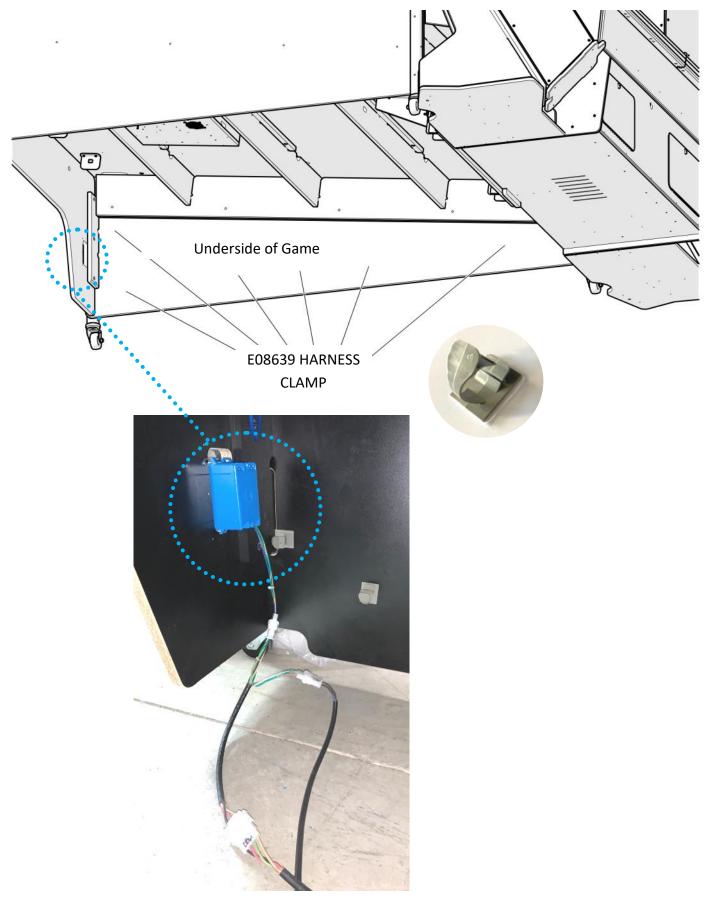


STEP 67: Tower harnesses & AC Power Module

- A) Install Power Inlet Module with Qty 6 AA0655. Also apply DECALS from parts box ("CAUTION", "WARNING", "SUITABLE") see next page for details on harness fastener location.
- B) Insert cables from each tower assembly into the bottom holes.



Install wire clips and plug in main AC harness



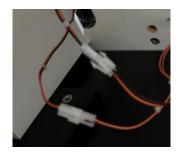
STEP 68: NETWORK CABLE FLOW

The Network cable run starts from front of game to first coupler at the back. The other side of the coupler goes up the left score tower and back down into another coupler. Each tower has two network cables. Each coupler and cable is colored coded.

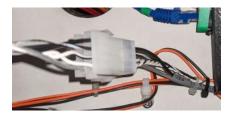
Either one can be used for input or output.

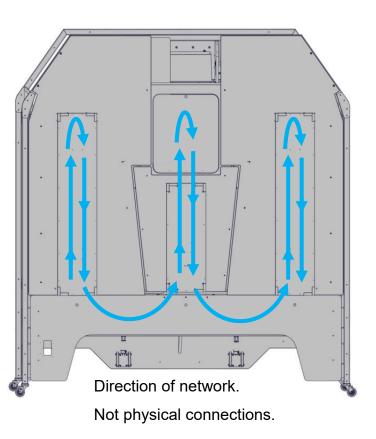
DO NOT PLUG BOTH CABLES FROM A TOWER INTO THE SAME COUPLER!

Two pin DC power cables are also at each tower connection



Connect the display harness coming from the center tower.





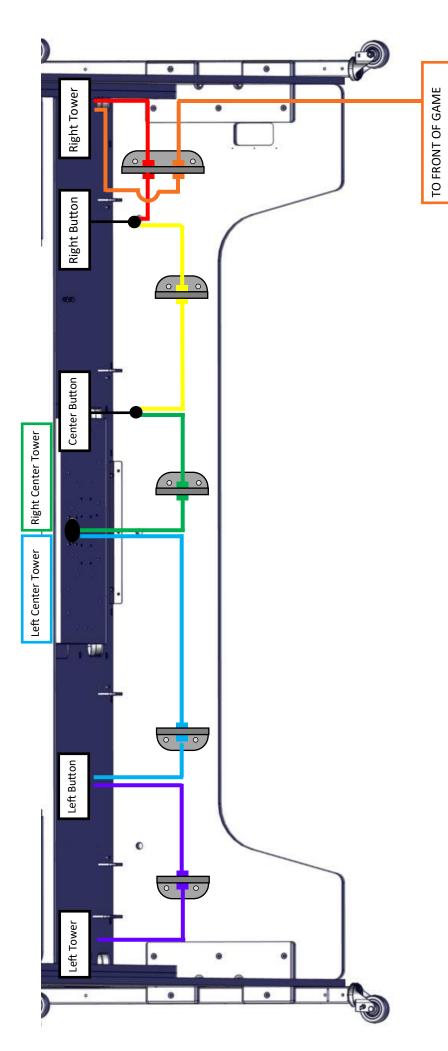
Any cable with the same color can be plugged into same color coupler.





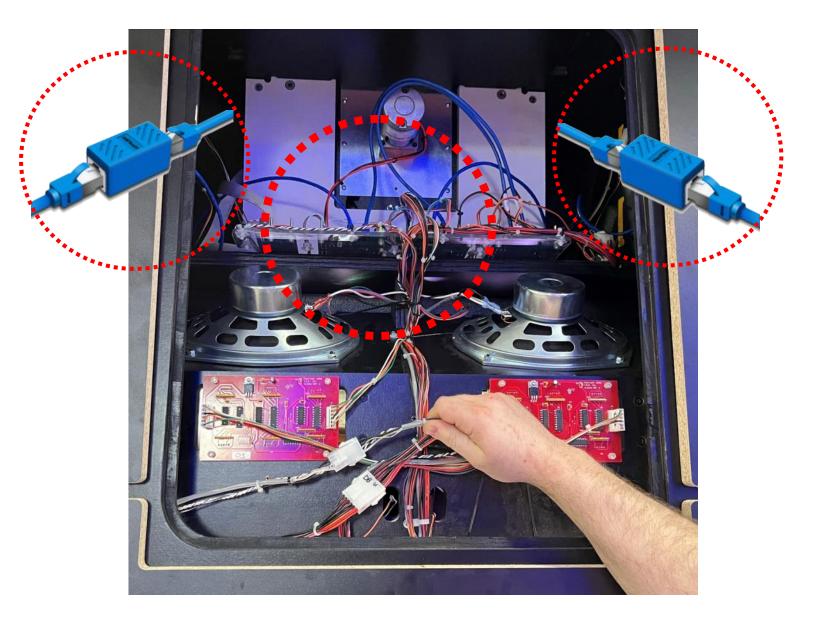


NETWORK WIRING COLOR CODE (STEP 68)



STEP 69:

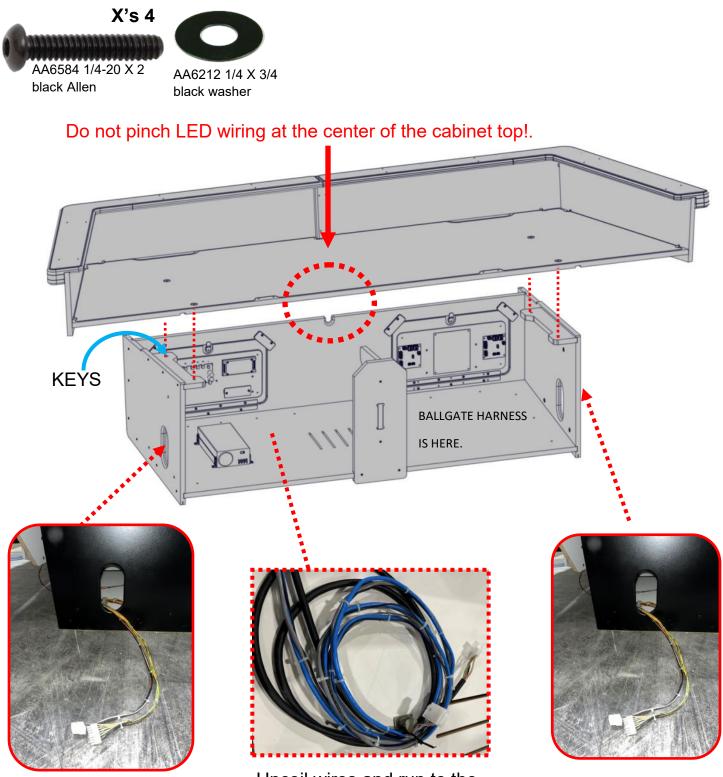
Remove the upper center panel. From the back of the cabinet, the network cable on the left side comes from the middle tower on the left. The right side comes from the middle tower on the right. Both at the top. From the front of the cabinet you can reach in and route the cables up into the jumbotron assembly. The other two data harness comes from the left middle tower. This harness can be pushed up through the front of the cabinet. If you are unable to locate these cables, remove the tower covers for easier access.



STEP 70:

Undo harnesses at either end and push out side holes. Ball gate connector is on the left. Remove keys attached to top of cabinet and put aside.

Attach the top to the podium using four AA6584 black Allen bolts and four AA6212 black washers

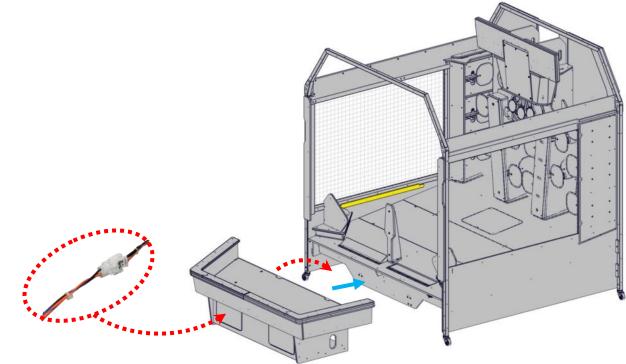


Uncoil wires and run to the back of the game

STEP 71:

Slide the front cabinet to the back cabinet assembly.

Using Unlock the left door and plug in ball gate harness.

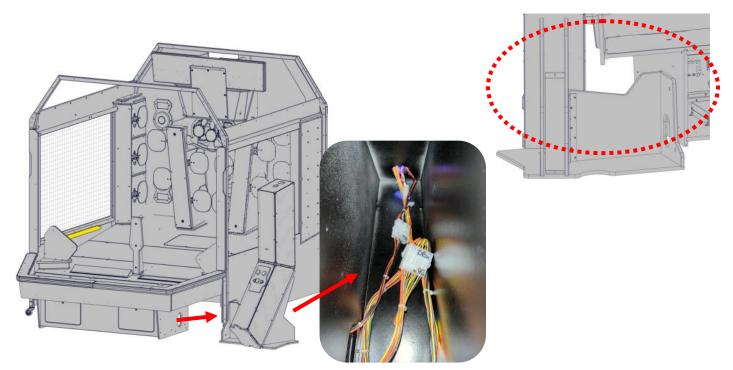


STEP 72:

The right archway base has a red start button and the left archway base has a blue start button.

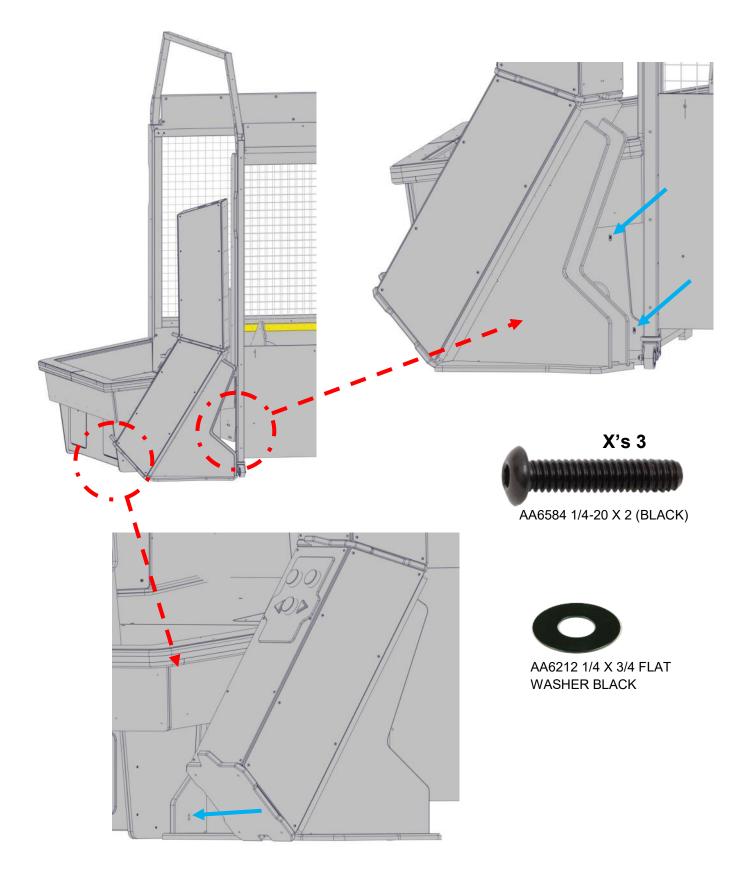
Lift the front cabinet up and slide the right archway base into position and connect the button harness. Then slide the tower against the front podium.

Notch must be underneath front cabinet.



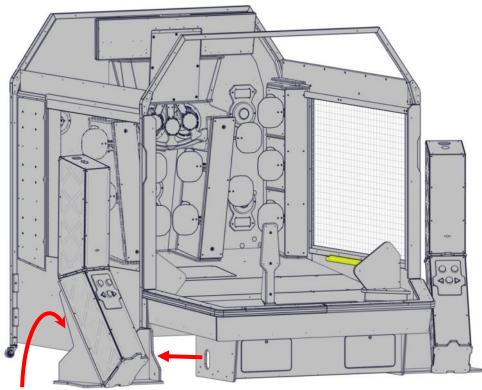
STEP 73:

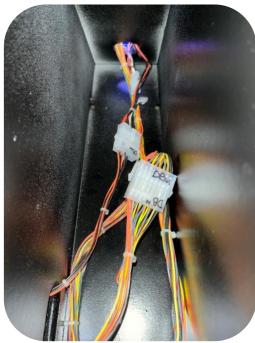
Secure the tower using three AA6584 black Allen bolts and AA6212 black washers.



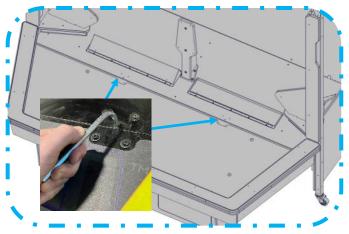
STEP 74:

Lift the front cabinet again and slide the left archway base into position and connect the button harness. Then slide the tower against the front podium. It may be necessary to slightly lift the podium to allow proper alignment with the tower.



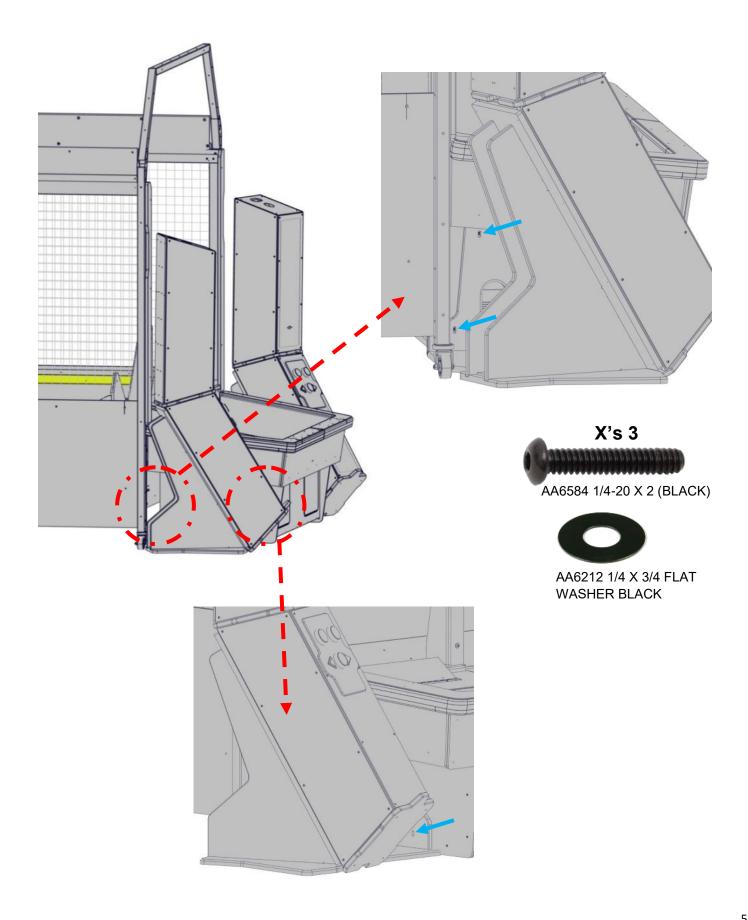


Latch the front cabinet to the back cabinet using the provided latch tool.



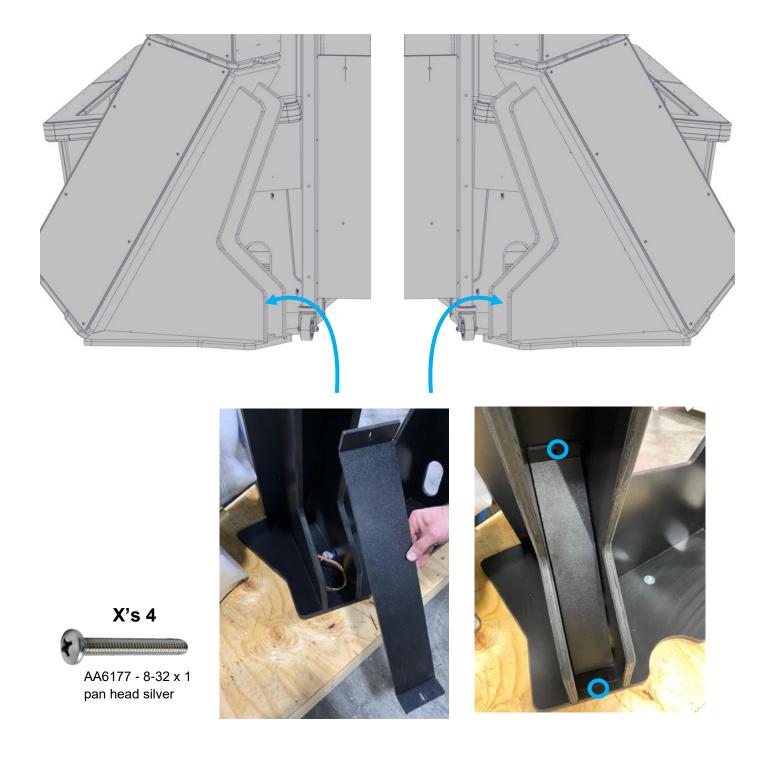
STEP 75:

Secure the archway base using three AA6584 black Allen bolts and AA6212 black washers.



STEP 76:

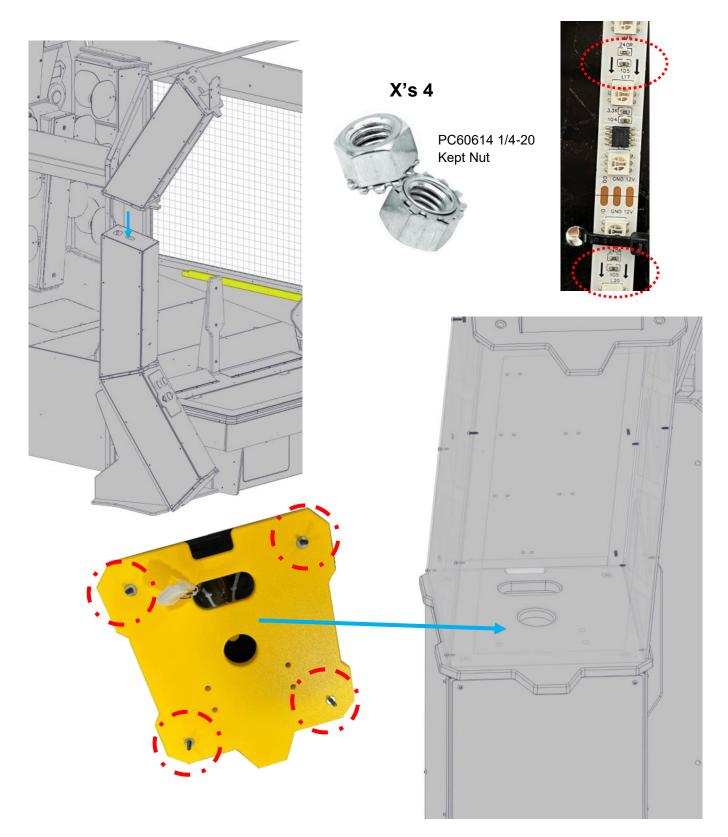
Attach the left and right tower back covers to shield the harness connectors. Secure with AA6177 2 places top and bottom for Left and Right side.



STEP 77:

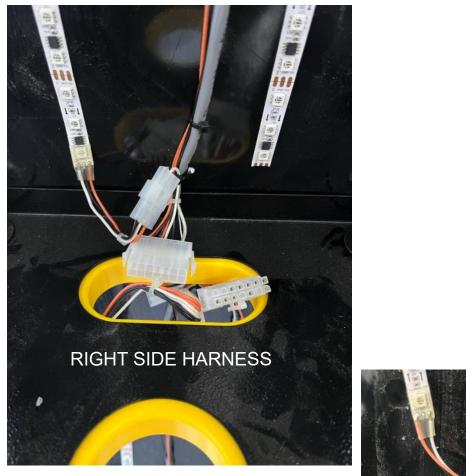
Look inside at the LED's in the upper archway. The LED's have arrows. For the right archway, the arrows go down. The left archway has the LED's arrow facing up. Lift the upper tower assemblies onto the lower tower assembly aligning the exposed studs.

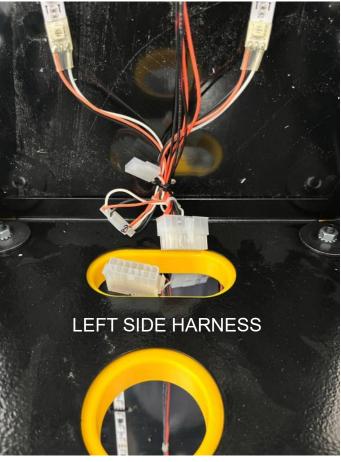
Secure the upper tower to the lower using four PC60614 Kept Nuts.



STEP 78:

The Right harness connectors will not fit the let side. Before lifting up onto the base, make sure the arrows are facing down for right and up for left.

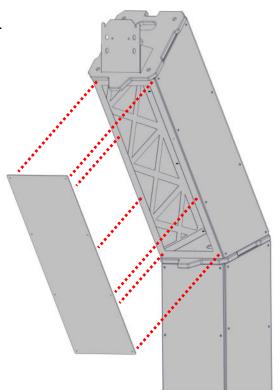




STEP 79:

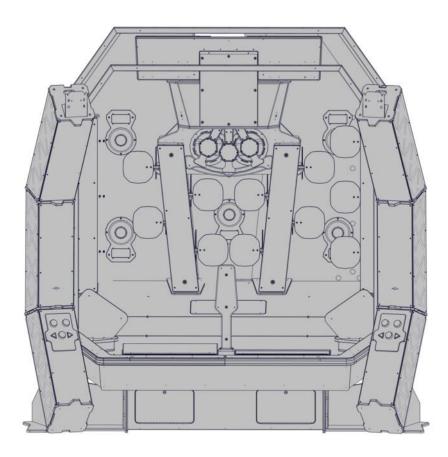
Peel covers then install front cover using eight AA6514.





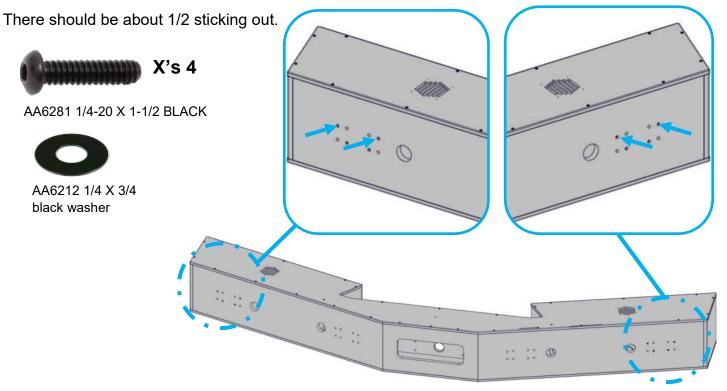
STEP 80:

Repeat steps 77 through 79 installing the right side archway top.



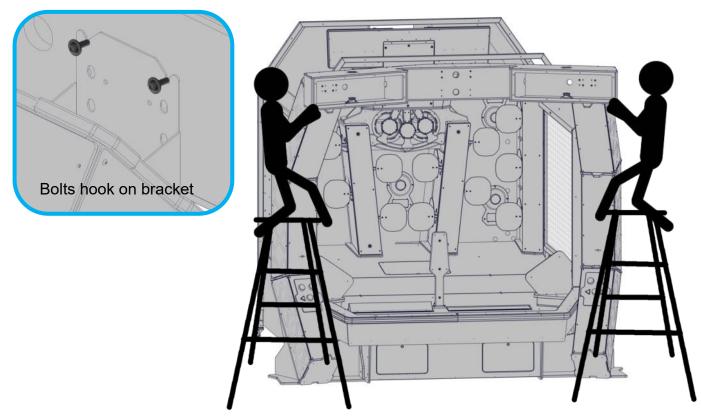
STEP 81:

Partly install two AA6281 Allen bolts and AA6212 washers on each side on the marquee assembly.



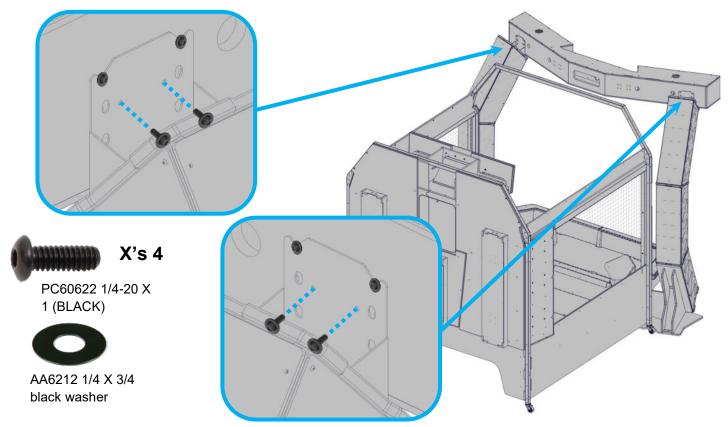
STEP 82:

With a helper, raise the marquee up and onto the brackets. The bolts you left hanging should "hook" on the bracket. Make sure the washer is on the outside of the bracket.



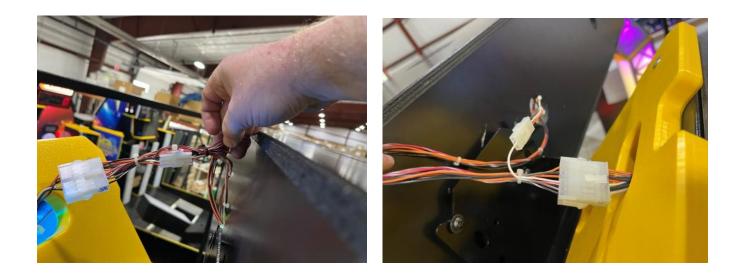
STEP 83:

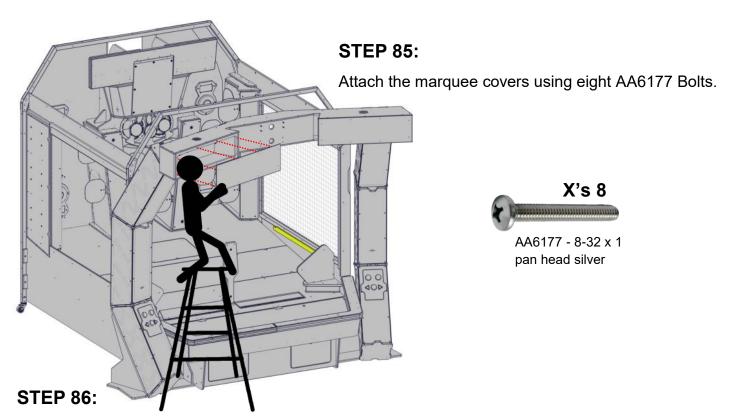
Secure the marquee assembly with two PC60622 and AA6212 on each side. Then tighten the bolts used to hook the marquee assembly to the bracket.



STEP 84:

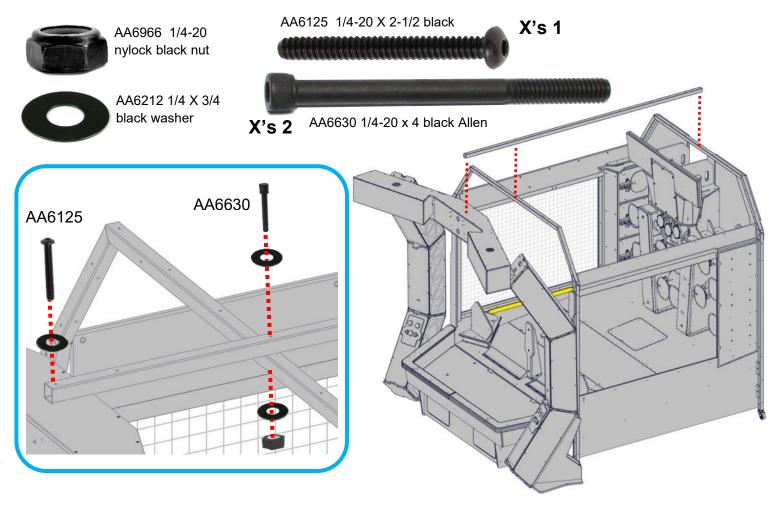
Connect the marquee wiring on the left and right sides of the towers.





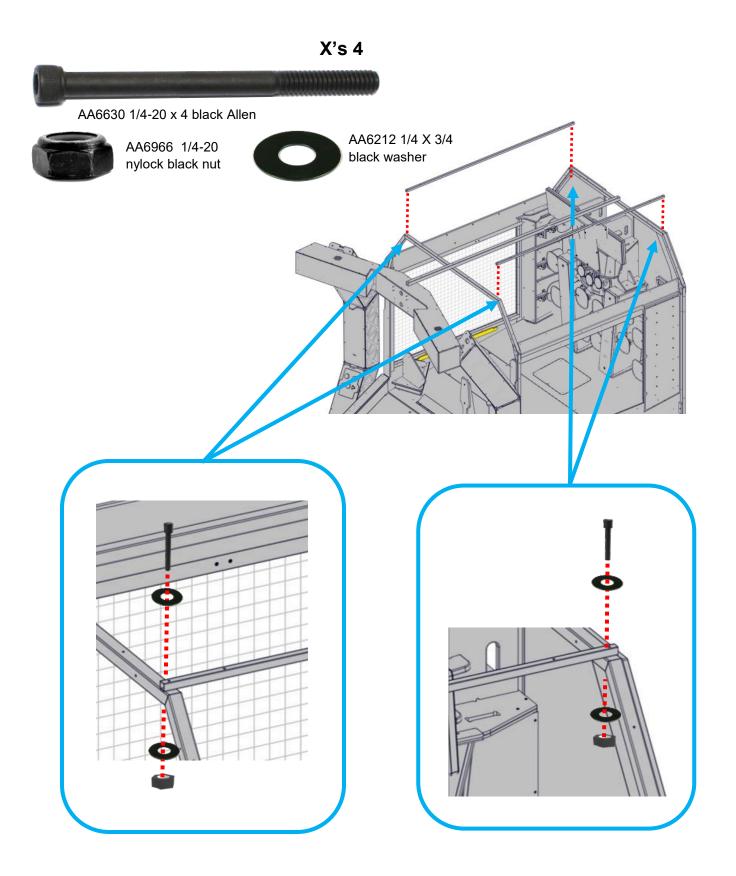
Attach the center support for the roof using AA6630 black bolts and AA6212 black washers from the top and AA6212 black washer and AA6966 nylock nut at the bottom on the arches at both ends.

Use AA6458 bolt and AA6212 washer to attach the support to the marquee.



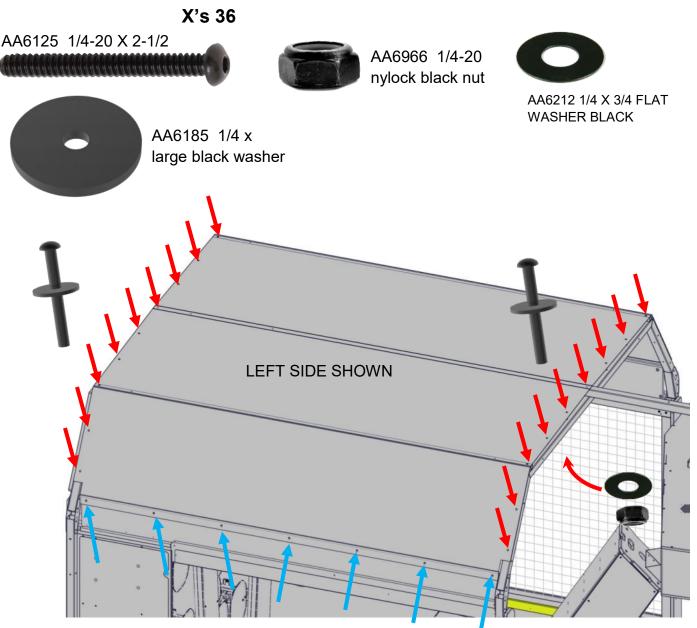
STEP 87:

Attach the left and right supports for the roof using AA6630 black Allen bolt and AA6212 from the top and AA6212 black washer with AA6966 nylon nuts from the bottom.



STEP 88:

At the back and front of the cabinet, secure the canopy with thirty six AA6125 black Allen bolts and AA6185 large black washers at the top. From the bottom, use AA6212 black washer and AA6966 nylock nuts. SEE RED ARROWS.



STEP 89:

Along the sides use seven PC60622 black Allen bolts with AA6185 large black washers.

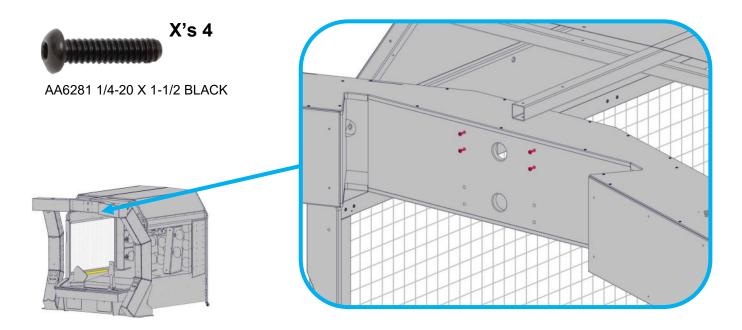
SEE BLUE ARROWS



AA6185 1/4 x large black washer

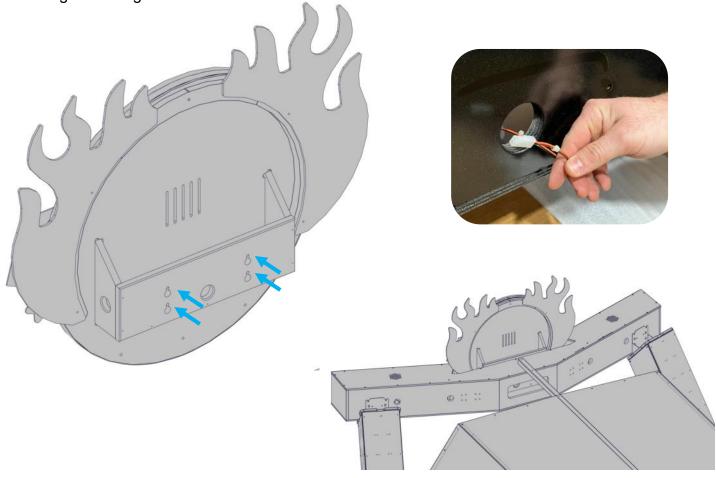
STEP 90:

Partly install four AA6281 bolts.



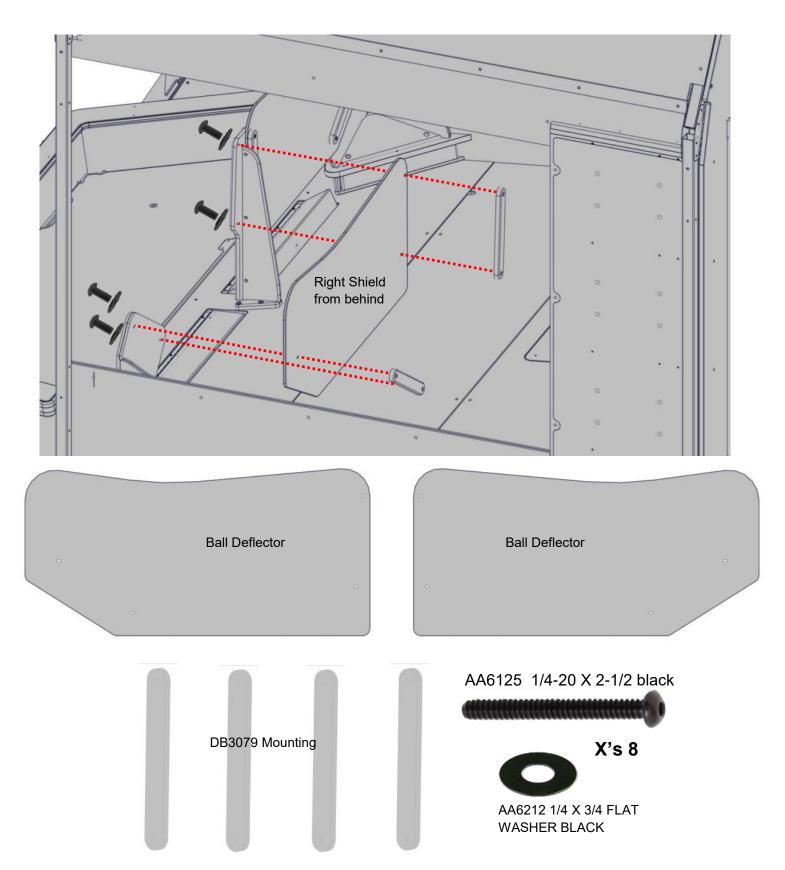
STEP 91:

Lift the marquee sign up onto the marquee assembly aligning the holes and sliding it down onto the bolts. Tighten using small Allen wrench.



STEP 92:

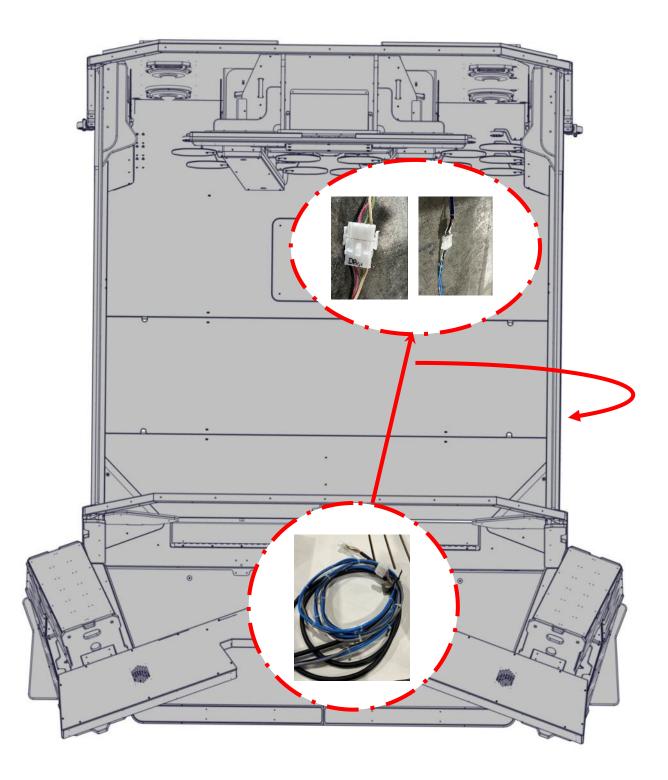
Attach the left and right ball deflectors using four AA6125 black Allen bolts and AA6212 black washers at the front, DB3079 mounting plates at the back.



FROM FRONT TO BACK, RIGHT SIDE, AC POWER, COMS, AND DATA

During setup you uncoiled the main AC wiring, COMS and Data lines. From underneath the cabinet, plug them into the back of the cabinet harnesses.

AC plugs into the power module at the back cabinet wall.





Universal Card link Connection

See Wiring Insert for wire colors and which connections are used.

Pin 1. +12v- Supply to Card System = Minimum of 2A available for the card systems and a Max of 3A.

Pin 2. Coin 1 - input to the game PCB.

Pin 3. Prize Meter/Ticket Notch 2- is connected to the Ticket Notch line between the game PCB and ticket dispenser. Optional.

Pin 4. Coin Meter 1 - is connected to the coin meter 1 output from the game PCB and can be used by card systems for monitoring purposes.

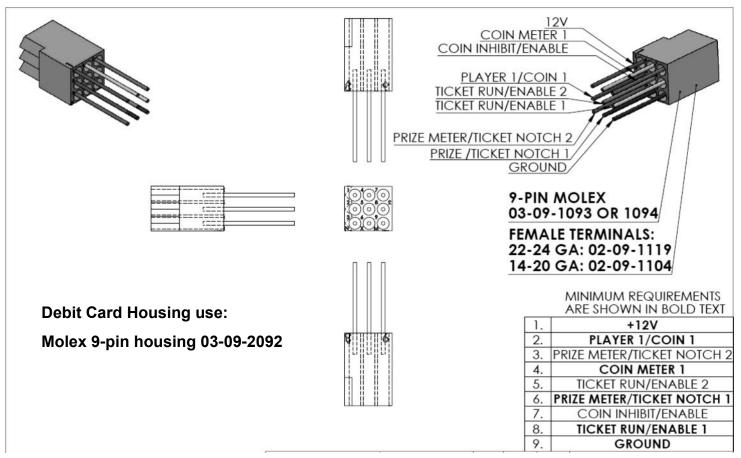
Pin 5. Ticket Run/Enable 2- is connected to the ticket run line between the game PCB and ticket dispenser. Optional.

Pin 6. Prize Meter/Ticket Notch 1- is connected to the Prize or Ticket Meter output from the game PCB and can be used by card systems for monitoring purposes. Optional.

Pin 7. Coin Inhibit/Enable- is connected to the Coin or Note Inhibit/Enable output from the Game PCB and is used where the game has this feature for disabling any payment. This is normally for states like New Jersey that limit the amount of money that can be inserted at one time.

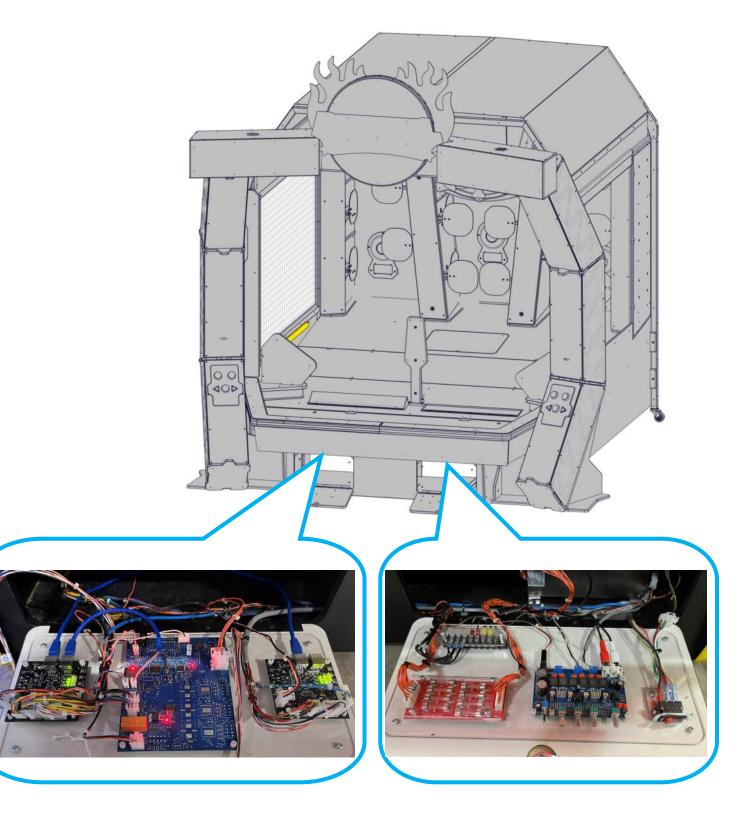
Pin 8. Ticket Run/Enable 1 - is connected to the ticket run line between the game PCB and ticket dispenser in standard redemption games. This is commonly used for systems using paperless or E-ticket. Not Used if the game doesn't have this output.

Pin 9. Ground- is connected to the common Ground connection, the same ground as the Game PCB.



PROGRAM SETTINGS - DIAGNOSTICS - VOLUME - POWER CONTROLS

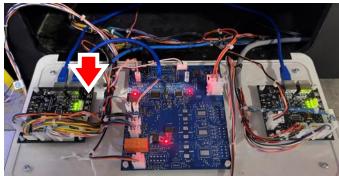
Located at the front are two access panels. The left panel contains the operator control panel board. The right panel contains the amplifier for volume and AC power control.



PROGRAM SETTINGS

The program button is located on the left board set. The right board set is not used for programming.

Press the program button to enter programming. Use either the select, up and down buttons on the board or the podiums' left and right arrows to navigate through the menus. The center button is used to change the values or clear options.



| | Meaning | Min | Max | Inc | Default |
|-----|---|-----|-------|-----|---------|
| 0 | Attract time | 0 | 30 | 1 | 1 |
| 1 | Coin 1 | 0 | 9 | 1 | 1 |
| 2 | DBV | 0 | 9 | 1 | 1 |
| 3 | Ticket Multiplier | 0 | 2 | 1 | 1 |
| 4 | Solo swing target starting value | 420 | 990 | 10 | 500 |
| 5 | competitive swing target starting value | 420 | 990 | 10 | 990 |
| 6 | solo bonus score | 0 | 90000 | 100 | 30000 |
| 7 | solo bonus tickets | 50 | 2000 | 10 | 500 |
| 8 | competitive bonus score | 0 | 99900 | 100 | 50000 |
| 9 | competitive bonus tickets | 100 | 2000 | 10 | 1000 |
| 10 | solo button target starting value | 400 | 990 | 10 | 500 |
| 11 | solo button target decrement amount | 10 | 50 | 5 | 10 |
| 12 | solo hole value | 500 | 1000 | 10 | 500 |
| 13 | competitive button target starting value | 400 | 990 | 10 | 990 |
| 14 | competitive button target decrement value | 10 | 50 | 10 | 10 |
| 15 | competitive hole value | 500 | 1000 | 10 | 1000 |
| 16 | solo score per ticket | 100 | 100 | 100 | 1000 |
| 17 | competitive score per ticket | 100 | 100 | 100 | 500 |
| 18 | minimum ticket payout | 1 | 100 | 1 | 10 |
| 19 | solo score to dec from bonus | 100 | 1000 | 10 | 100 |
| 20 | competitive score to dec from bonus | 100 | 100 | 10 | 100 |
| 21 | Fixed Tickets Payout/26 | 0 | 1 | 1 | 0 |
| 22 | Fixed Ticket payout /27 | 1 | 100 | 1 | 10 |
| 23 | Max Multiplier/28 | 1 | 4 | 1 | 3 |
| 24 | Factory Reset | 0 | 1 | 1 | 0 |
| 25 | Main board rev | 202 | | | |
| 26 | Left Front board REV | | | | |
| ~ 7 | | | | | |

27 Right front board REV

28 Slave Processor Rev

Diagnostics and trouble shooting guide

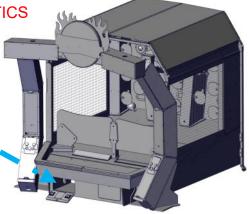
Your game comes with extensive diagnostics to aid you in keeping your game running correctly.

To access the diagnostics, open the left lower door assembly.

Press the "SELECT" and "DOWN" buttons at the same time in attract mode.

GAME MUST BE IN ATTRACT MODE TO ENTER DIAGNOSTICS





In diagnostics, the Jumbotron will show the layout of the sensor boards.

It will light the location of the board in green when elected. You will notice the remainder of the sensors are yellow. This indicates the remaining boards are sending and receiving information. If you see any red, this would indicate the board in that location is not receiving or sending information.

- YELLOW = Communication is established.
- RED = No communication:

check power

RJ45 for proper connections



You will also notice the numbers under "ID DIPS". This indicates the proper dip switch setting for this location. IT IS NOT READING THE DIPSWITCHES! It is only showing you the proper settings for that location. White means it should be set to on while blue means it should be set to off.

At the bottom of the screen, it will show you which RGB color the target should be. It will cycle from Red to green to blue and repeat.

S1 and S2 have different meanings depending on which sensor you are testing.

More details on this later on.

When in diagnostics if you press the "Press to enter initials" button it will cycle through the sensor board numbers and light the location of the sensor.

Each press of any podium button will flash that button. You can use either podium.

When you press the "LEFT" button on any swing target, the swing arm will move inward. If you press the "RIGHT" button the swing arm will move outward. S1S2 shows means switch 1 and switch 2. On a swing arm target, only S1 is used. When the arm swings inwards S1 will appear. When the swing arm is returned to the outward position, S1 will disappear. When visible, the status of that switch is high. When invisible, the status of that switch is low.



"PRESS TO ENTER INITIALS" = Change sensor board number.

"LEFT" = Swing target arm inward (only on sensor 1 through 14).

"RIGHT" = Swing target outward (only on sensor 1 through 14).

"S1S2" = Status for switch 1 and switch 2. Visible = high, invisible = low.

Press the "1P" button and the game will dispense 5 tickets.

If you trigger the coin line a sound will play.

The selected sensor board will show the digits on the display counting up.

For target board 15, S1 indicates the left hole and S2 indicates the right hole.

For target board 16, the upper red display will cycle numbers and the "LEFT" and "RIGHT" buttons will swing the arm back and fourth.

For target board 17, the upper blue display will cycle numbers and when you press "LEFT" and "RIGHT" buttons, the ball gate will operate.

Boards with IDs 18 through 22 only use S2 and will disappear when you press the back wall buttons.

Accounting Mode:

Accounting is accessed by pressing DOWN and then UP on the RED player DB2035.

The left and right arrows on the podium are used to navigate the menu and the center select button is used to change the values of the "clear" options.

These audits roll over after 65535.

Clear High Score tables by holding the Blue player's Competitive and Solo buttons for 10 seconds and exiting the menu.

Clear Audits by holding the Blue player's select button for 10 seconds and exiting the menu.

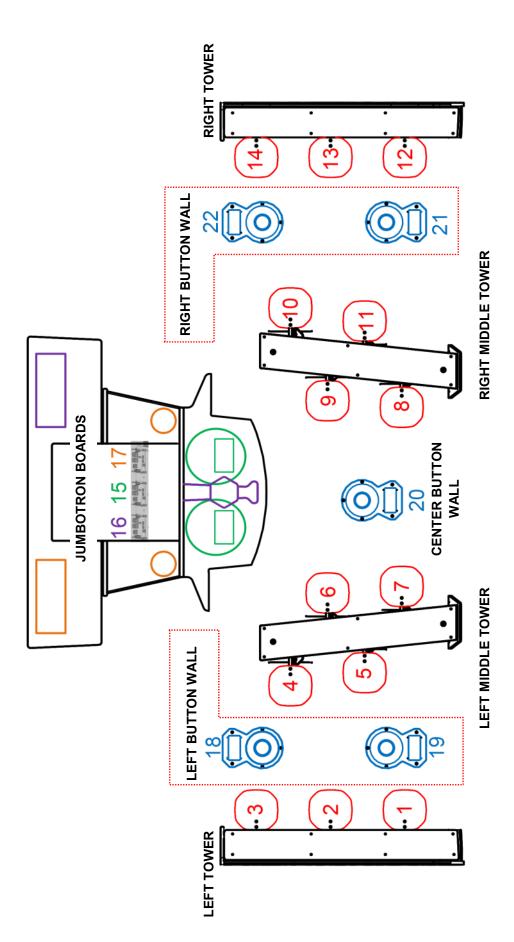
For either of these options, allow the game to run for 10 seconds to save all of the values properly.

DB2033X Target PCB ID numbers

Boards 1 - 14 are Swinging Targets. Board 16 is Block Arm and Player 2 score display.

Board 15 is Bonus holes and displays. Board 17 is Player 1 display and strobe lights.

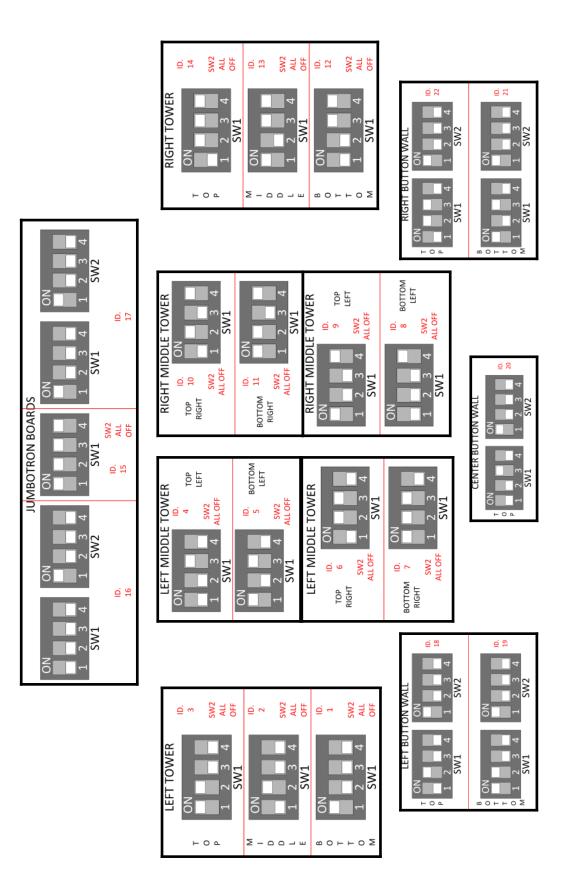
Boards 18 - 22 are bonus button assemblies.



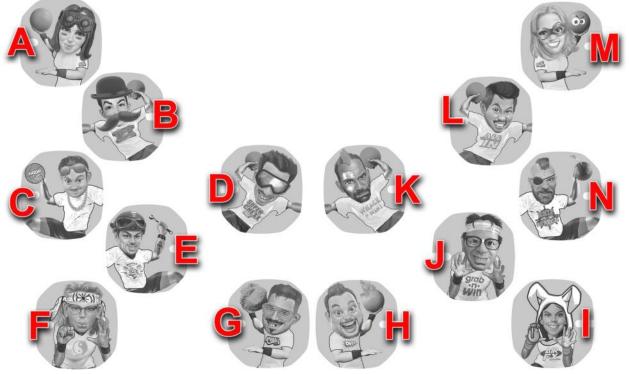
DB2033X Target PCB Dipswitch settings

Each board has two sets of dipswitches. These dipswitches determine the position and function. When installing any replacement boards, confirm the location of the board and set the dipswitches to match the location.

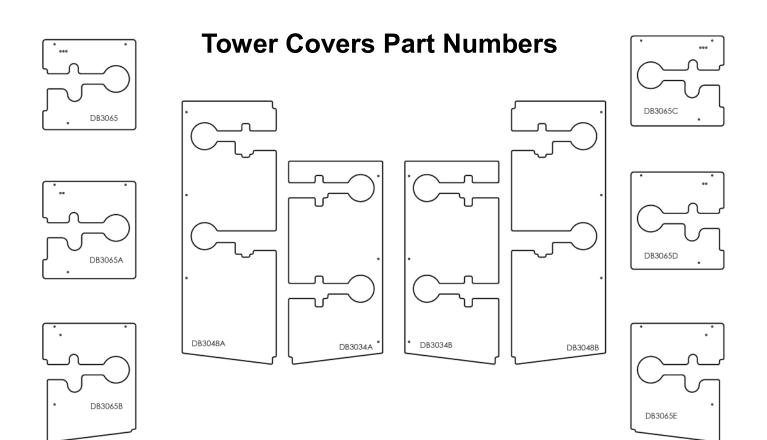
Both RJ45 ports are identical. Either can be used for in or out communications.



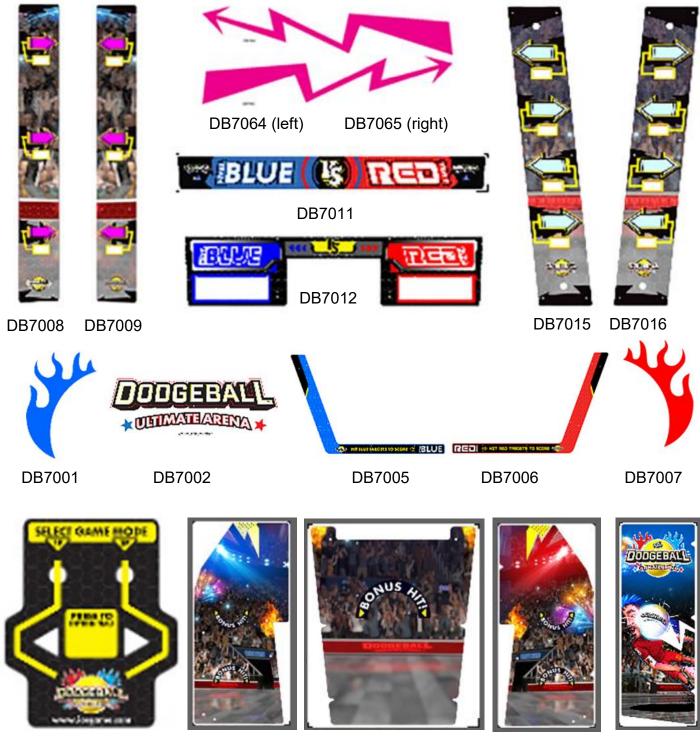
Dodge Ball Target Graphic Location Guide Part Numbers DB7030A- DB7030N



5-24-22



DECAL PART NUMBERS



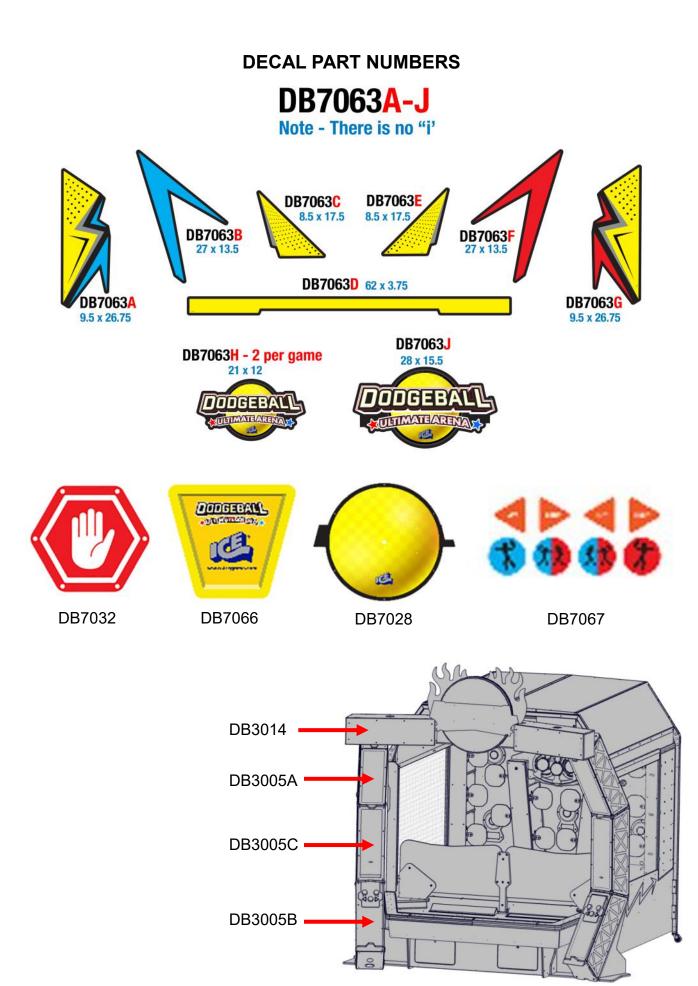
DB7062

DB7070

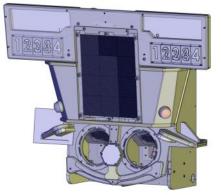
DB7071

DB7072

DB7018

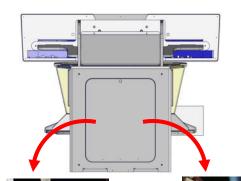


DB3216X Leaderboard Assembly and Parts



The leaderboard assembly contains the leaderboard displays, two WR2032X five digit displays, Multiple LED strips, WH2236X matrix display board, 2 RB2009EX receiver sensors, 2 FP2009EX Transmitter boards, DB3102X Blocker arm and motor assembly, three DB2033X target boards, two ML2032X display boards, and a DB3068X Dot Matrix Grid.

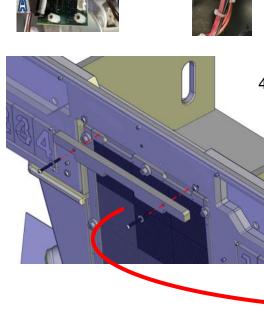
Removing the DB3068X Dot Matrix grid assembly.



- 1) Open the upper back door access panel.
- 2) Unplug the two ribbon cables.

(Mark the cables A and B to note where they go).

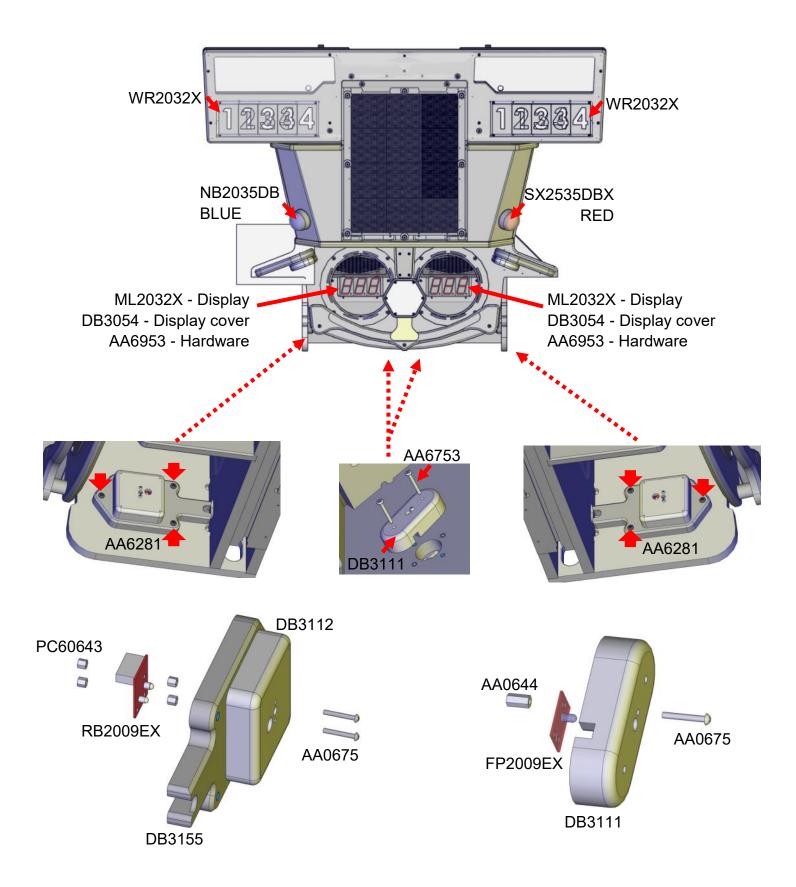
3) Disconnect the DC power cables.



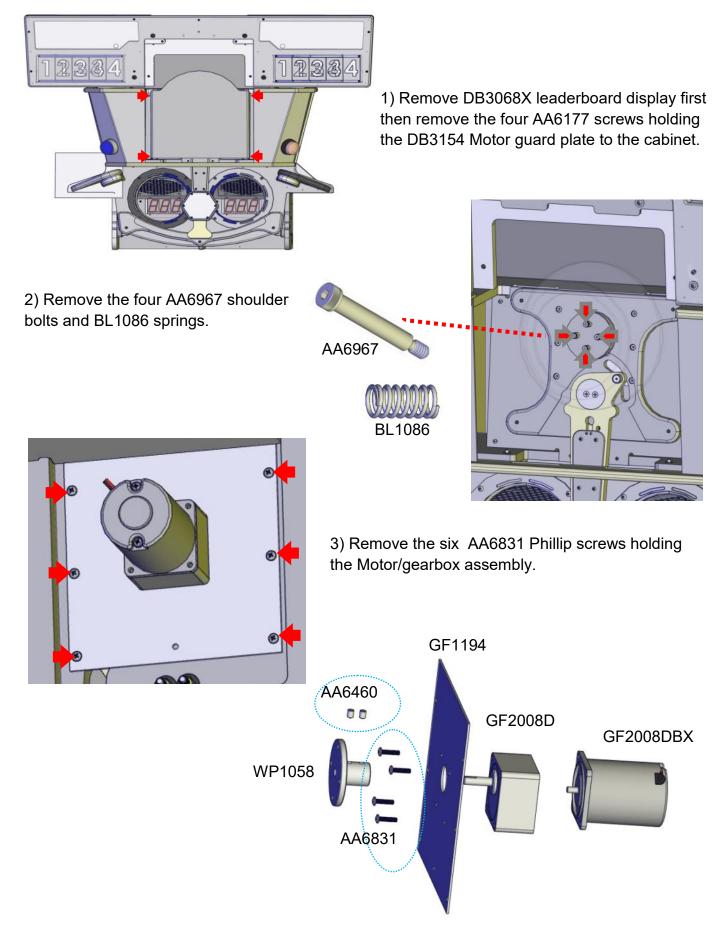
4) Then from the front, remove the upper support bar.



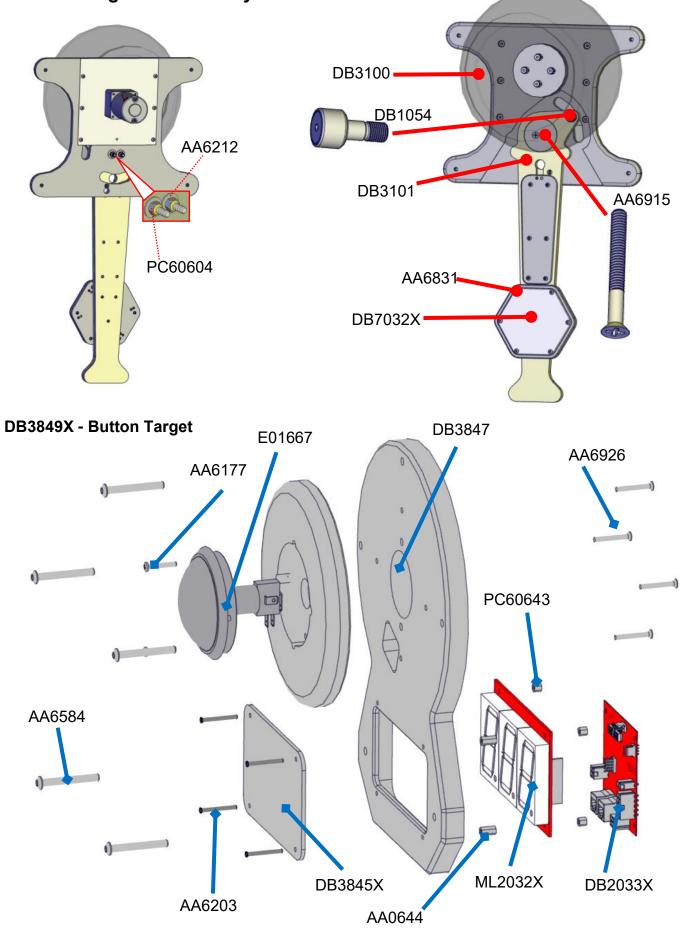
DB3216X Leaderboard Assembly and Parts

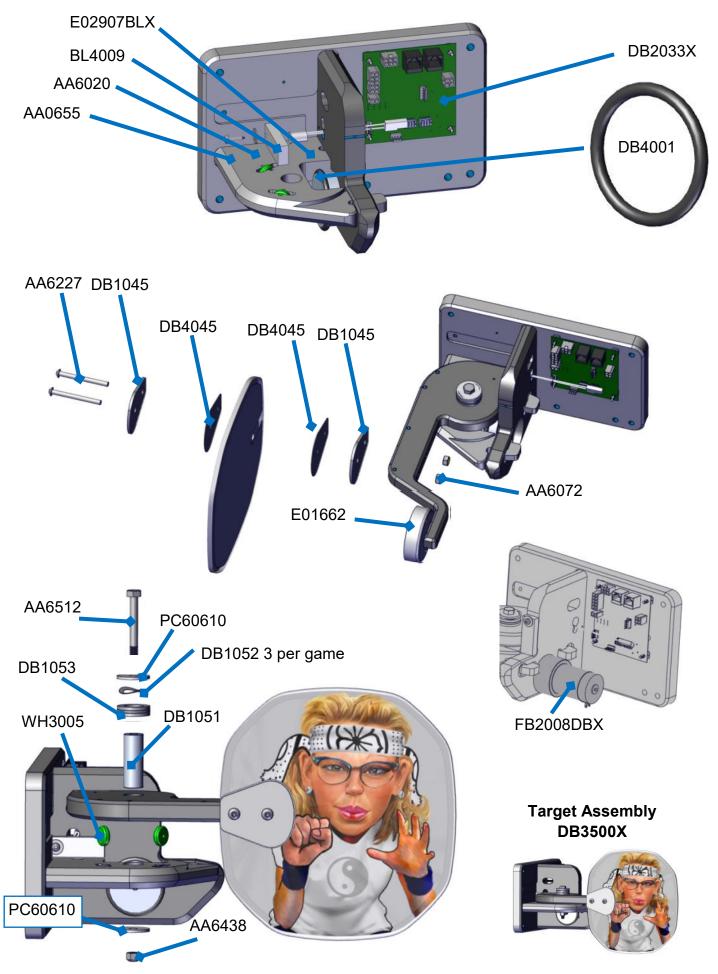


Removing the DB3102X Blocker arm & Motor assembly

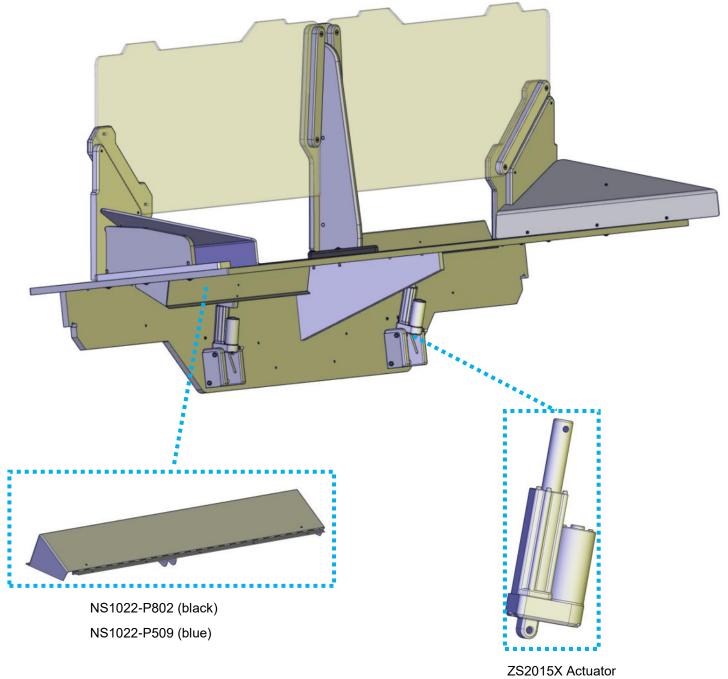


DB3102X Swing Arm Assembly





DB3277X- ball-gate Assembly



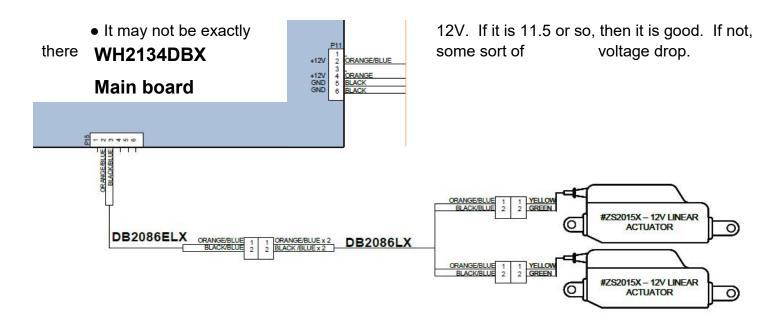
BALLGATE:

How to measure the voltage at connector P15 when testing your actuators. Do not measure between the black/blue and orange/blue on P15, you will never see the12VDC.

Use pin 5 or 6 on P11 (where the black wires go to).

Your should see the following:

- When the ball gate is up even in attract if you put the red meter lead in the black/blue on P15 there should be +12VDC.
- In game play when the ball gate is up, he should see +12V if you move the red meter lead on the orange/blue at p15.
- If you see +12V when you do both of these things, then the board is working properly.



Trouble Shooting Tips



DB2033X - TARGET BOARDS

On power up each target board will first display the version number of the firmware. It then will identify their location ID. Any board that is showing "888" has failed and should be replaced.

DB2033X

Both RJ45 Ports are identical. Either can be used for in or out communications. A coupler could be used to diagnose network issues if needed to eliminate the target board completely in the chain. The communication break should be between the last seen board shown in yellow or green and the next shown in red when in diagnostic mode. There is an extra 20' Cat 5 cable included for finding com errors.



Target arms not moving or partially but motor is fine

O-RING or Spring washers are pinched in assembly. Two springs where used. Short spring washers have Ø1.225 O.D.; Tall spring washers have Ø1.103 O.D. Short spring washers require two to be installed.

How to test your target assembly:

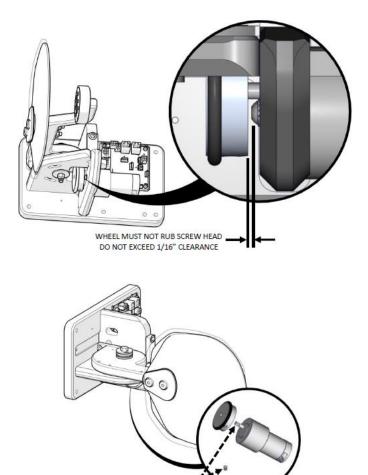
Coin in a 2 player game and allow it to run

All targets should present in round 2, final score should be 0-0

Solutions to try:

- 1) General Target check:
- 2) Ensure O-Ring Tire and arm are clean and free of dust and oil (use air duster and/or mild cleaner)
- 3) Ensure motor wheel is positioned correctly on motor shaft (slight clearance from screw heads) 1/16 max between head of screw to back of the pulley.
- 4) Ensure Motor wheel set screw is tightened on shaft flat
- 5) Spring washer specific:

Replace with tall spring (MU750-0160, Ø1.103 O.D.) or double up on the spring. Position the wheel so that the head of the screw will not rub against the wheel. The use of blue Loctite to secure the grub screw is recommended.



SET SCREW MUST ALIGN WITH SHAFT FLAT

Spare Parts list:

Electronic Parts:

| DB2033X | Target Board |
|----------------|----------------------------|
| FB2008DBX | Target Motor |
| ZS2015X | Actuator |
| E01667 | Large push button |
| GF2008D | Gear box for swing arm |
| GF2008DBX | Swing arm swing arm |
| RB2009EX | Receiver PCB |
| FP2009EX | Transmitter |
| MJ2032X | Target Display |
| NB2035DB | Blue Strobe light assembly |
| SX2535DBX | Red Strove light assembly |
| WR2032X | 5 Digit display assembly |
| E01357 | Dot Matrix Grid |
| E00837DBX | SDCARD |
| DB2035X | Front board |
| WH2034DBX | Main board |
| FE2006 | Audio Amp |
| WH2136X | Face board for matrix |
| Power Supplies | |
| GF2010 | +12 VDC 26.7A power supply |
| KF2010 | +12 VDC power supply |
| WN2010 | +5 VDC 40A power supply |
| KF2011RMX | Fuse board 6 amp fuses |
| | |

Misc. Items.

| DB3024X | Case of 6 dodgeballs |
|---------|----------------------|
| DB4001 | O-Ring .326 |
| DB1052 | Target Wave Spring |
| E00039 | 8 Amp Fast BLO fuse |
| E08702 | 7' Cat |
| E01691 | 15' blue Cat 5 cable |
| E01690 | 15' Gray Cat 5 cable |
| E01666 | 3' Cat 5 cable |
| E01665 | 2' Cat 5 cable |



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I.C.E. Inc warrants all components in new machines to be free of defects in materials and workmanship for the period listed below:

- 180 days on Main PCB's, Computers & Motors
- 1 year on all LCD monitor panels
- 90 days on all other electronic and mechanical components
- 30 days on all I.C.E. repairs and parts purchases

I.C.E. Inc shall not be obligated to furnish a warranty request under the following conditions:

- Equipment or parts have failed through normal wear and tear
- Equipment has been subjected to unwarranted stress, abuse or neglect
- Equipment has been damaged as a result of arbitrary repair/modification

Products will only be covered under warranty by obtaining an I.C.E. authorized RMA #. To obtain an RMA # please provide I.C.E. tech support with the game serial # or original I.C.E. invoice # and a detailed description of the failure or fault symptoms.

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Innovative Concepts in Entertainment 10123 Main St.

Clarence, NY 14031

Phone #: (716) - 759 – 0360

Fax #: (716) - 759 - 0884

www.icegame.com