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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.

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.

#### INSTALLATION

Please see assembly booklet insert for instructions on how to assembly the game.

 Once the game is assembled plug the game into the A.C. outlet and turn on power to the game. The switch for the game is located on a power module on the outside rear of the game.

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.

- 2. Make sure the game is level after installation. It is necessary to make sure the game is level for safety concerns.
- 3. Check that the A.C. voltage rating on the back of the game matches the A.C. voltage of your location.

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.

NOTE: THIS GAME IS INTENDED FOR INDOOR USE ONLY.
ON THE BACK PANEL OF THE GAME: WARNING: SHOCK HAZARD - DO NOT OPEN. REFER SERVICING TO SERVICE PERSONNEL.

## GAME SETUP AND FEATURES

#### Introduction

NFL TWO MINUTE DRILL™ is a revolutionary concept in Coin Operated football games. You will see that this game includes many features which make it the obvious choice for your location.

NFL™ incorporates both pop out targets as well as stationary targets that are user friendly and realistic. Fun and easy to play for players of all ages, yet challenging enough for even the expert football players. Practice your football skills and try to better your last score or compete against your friends.

CONTROL PANEL. Attractive LED displays are used to display all scoring and vital information such as time, credits and high score. The control panel is laid out in a convenient user friendly fashion, making it easy for players to operate.

HEAVY DUTY CONSTRUCTION is incorporated throughout the game by using only heavy gage metals and plastics. The game can be assembled and disassembled many times without any harm to the game. You will appreciate this feature if you move your games often.

HIGH TECH GAME ELECTRONICS. Solid state electronics are used throughout the game for their rugged reliability as well as making it virtually impossible to connect harnessing the wrong way. Heavy duty optical sensors are used throughout.

Digital sound effects are used for optimum dependability. Over twenty sound effects are incorporated into the sound effect circuitry. The game electronics have been highly integrated into the Main PC Board assembly, making it easy to repair games. The game has a full feature self-test system to make troubleshooting easier.

OPTIONS. A ticket dispenser and/or a dollar bill acceptor can be ordered with your game.

## Game Play

**NFL™** is an interactive coin operated amusement game.

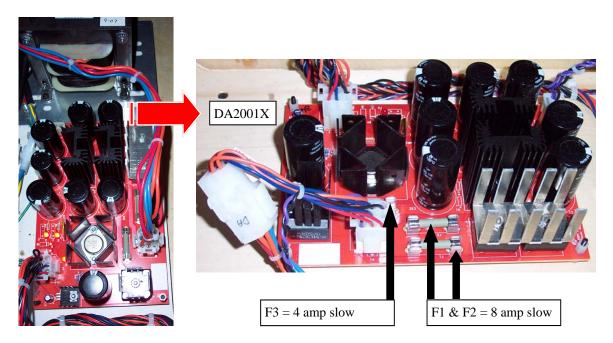
**Linking** is a popular option used in locations where more than one game is to be used. The games are linked with the marquee option to add direct head to head action between the game players. This option is built into each main PC board but requires the marquee to activate, and it is as easy as connecting a phone cord and setting a number between 1-9 on the main circuit board.

Assembly - See insert.

Programming - See insert.

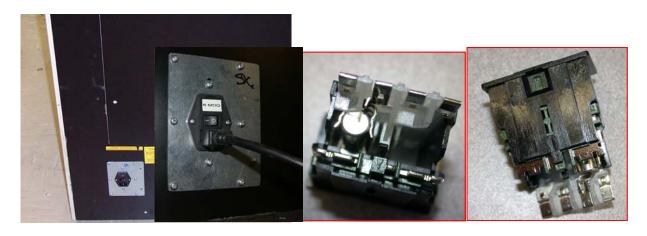
## Power Supply & Transformer

The power supply and transformer are located in the back of the game. To access them, you must open the bottom back access door and located on the left is the power assembly. See pictures below



#### **AC Main Power Fuse**

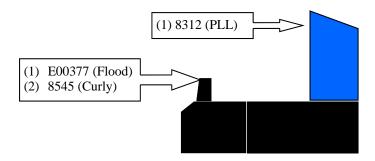
Located in the power module is a 3 amp slow blow fuse. To check or replace the fuse pull the tab with the label out. There is only one fuse installed. See diagram below.



#### General illumination

#### Location of bulbs

There are two 8545's (Compact fluorescent bulbs) located in the control panel, one E00377 (Flood Bulb) and located above the Playfield area is one 8312 (PLL 18 bulb).



#### Control panel bulbs

To access the three bulbs located in the control panel you will need to remove the bracket holding the control panel. Use a 5/32 Allen and 7/16 wrench to remove the 3 bolts holding the top bracket of the control panel. See page 13 for bracket diagram and see pages 8 through 12 for assembly diagrams of the control panel.

#### Playfield bulb

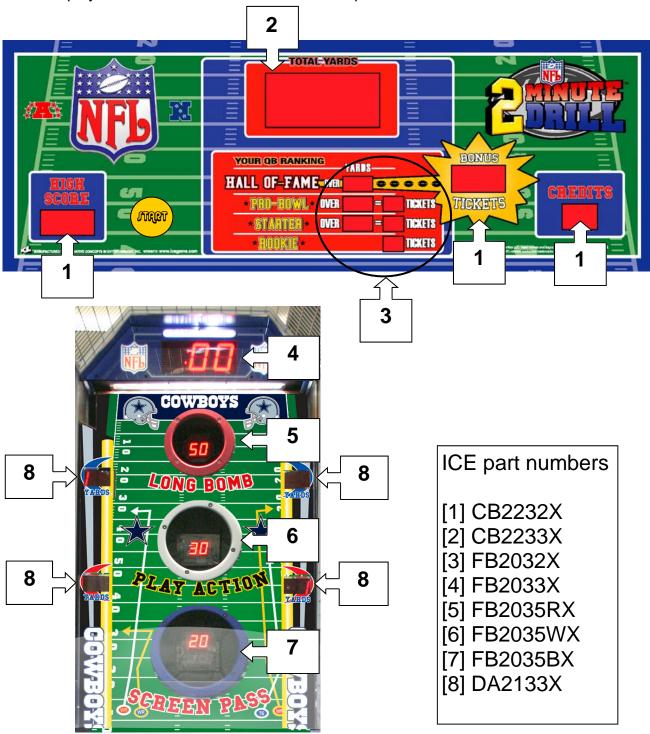
Open the top back door and remove the #2 square head screws that hold the upper cover plate. You can now access the top PLL bulb. It is also possible to access the bulb from the front if access to the back is limited. See diagram on page 14.

## LED Lights

There are two LED strips to illuminate the word GAME CLOCK located at the top of the playfield in the marquee. You will need to remove the front marquee to replacement the LED strips. See the assembly diagram on page 14 for removal. There are also four strips located in the control panel to illuminate the player's ranking. See diagram on page 13 for access. The LED Strips located in the target area are part of the display assemblies and cannot be replaced alone. See display location on the next page.

## **Display Board locations**

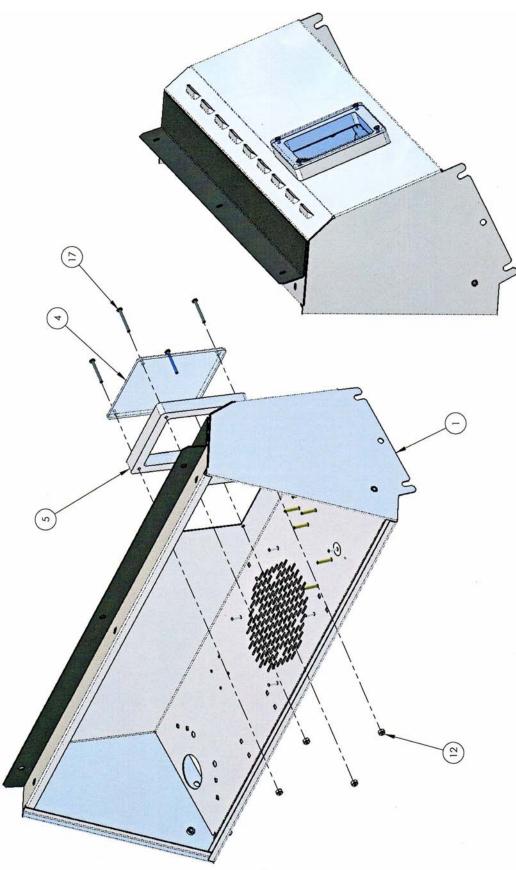
Control panel display boards are located below. FB2032X is a display that includes six display boards and five mini footballs. See picture below.



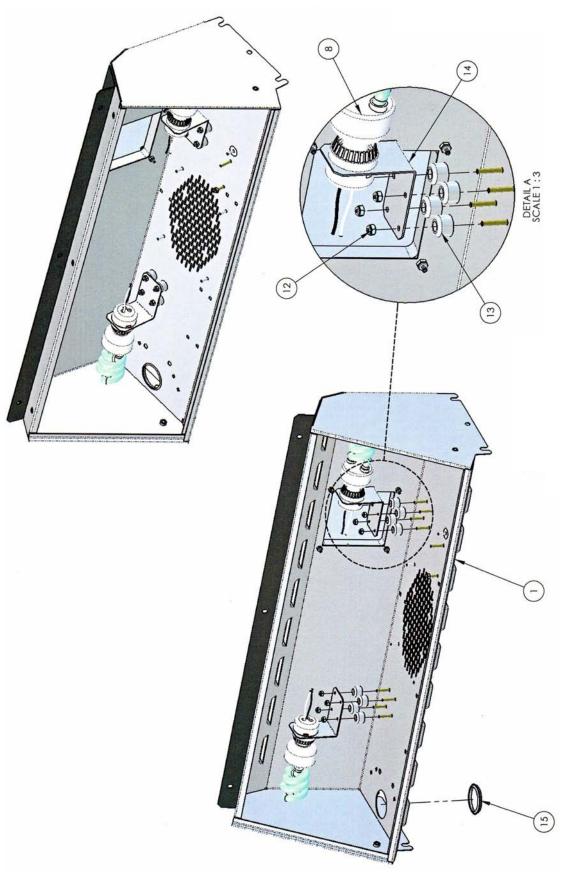


# Control Panel Assembly FB1001X

TEM NO.	ITEM NO. PART NUMBER	DESCRIPTION	QTY.
-	FB1001	CONTROL PANEL HOUSING	-
2	FB1002	CONTROL PANEL RETAINER	-
3	FB3013	REBOUND GUARD	-
4	FB3016	CONTROL PANEL LIGHT SHIELD	-
5	FB3018	C. P. LIGHT COVER SPACER	-
9	FB7002x	CONTROL PANEL ASSEMBLY	-
7	AR2007	6 X 9 SPEAKER	-
8	AR2130X_8545	PIG TAIL LIGHT W/ AR2130X SOCKET	2
6	BB2022	SOCKET FLOOD LAMP	-
10	BT1049	BRACKET (LIGHT SOCKET MTG)	-
1	E00377	BULB CF FLOOD PAR 30 (MAXLITE SKR3015FLDL, 33020) (15W=75W)	-
12	6072	8-32 NYLOCK NUT	18
13	4002	BUMPER (#2953w) 9540K53	10
14	TG1021	LIGHT BRACKET	2
15	3039	GROMMET (BP2 - PUNCHED)#853118	-
16	6212	1/4 x 3/4 FLAT WASHER BLACK (USS)	9
17	6331	#8-32 x 1-1/2" LG PPHMS	4
18	6426	1/4-20 x 5/8 BHCS (BLACK) SECURITY	ო
19	PC60604	1/4-20 NYLOCK NUT	ო
20	PC60622	1/4-20 x 1.00" LG. BSHCS	8

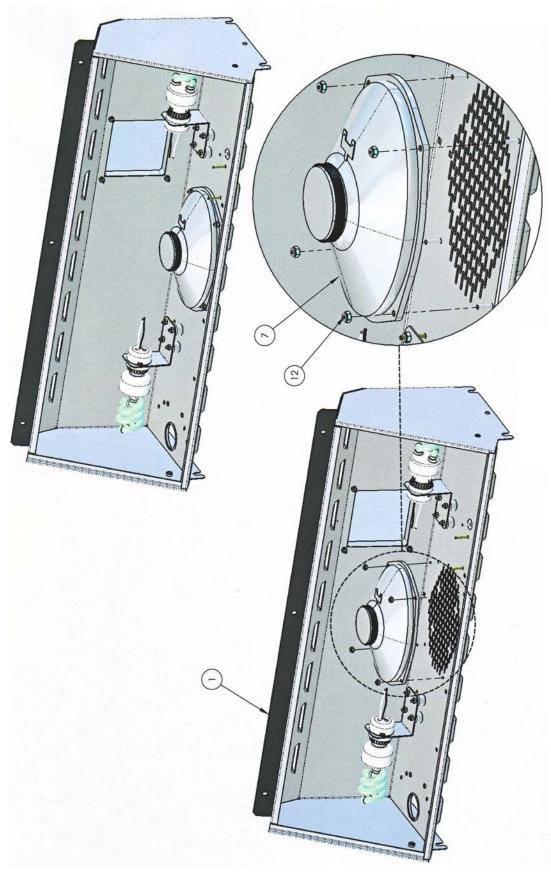


Control Panel Assembly FB1001X

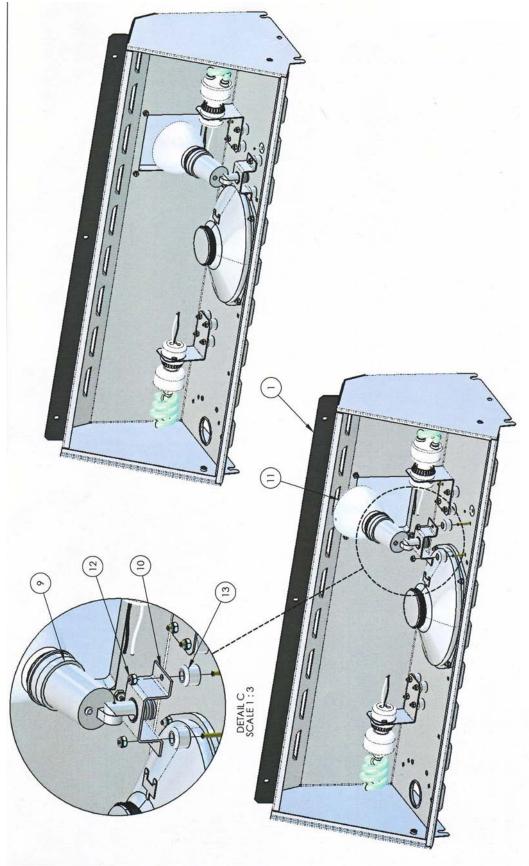


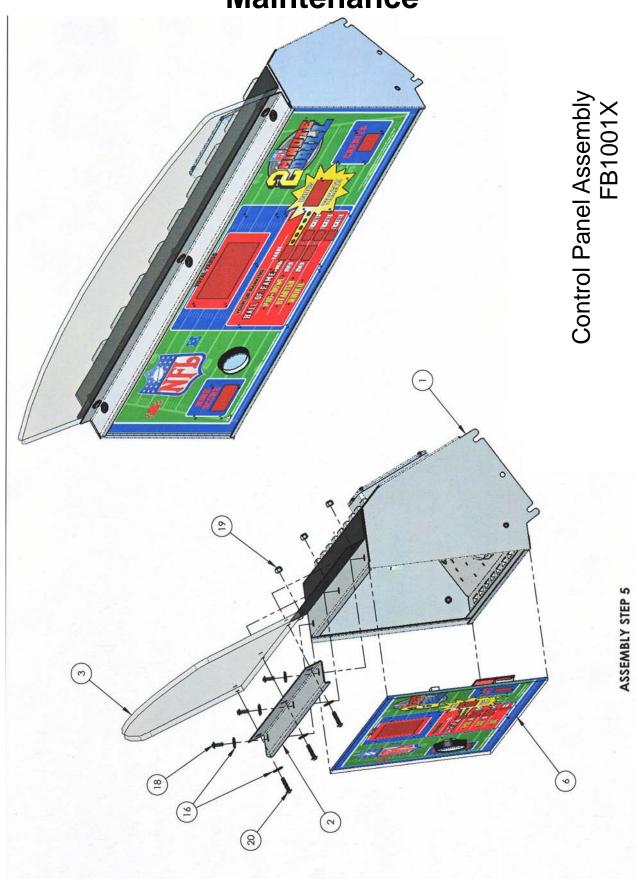
Control Panel Assembly FB1001X

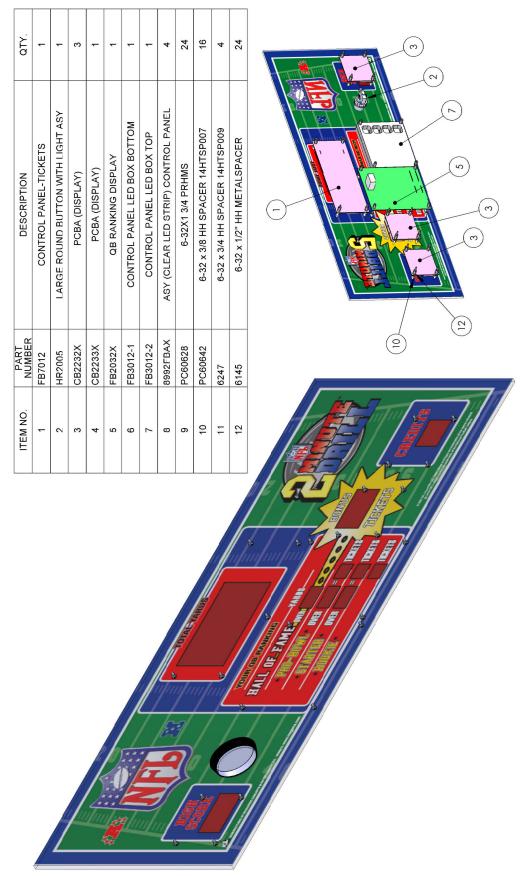


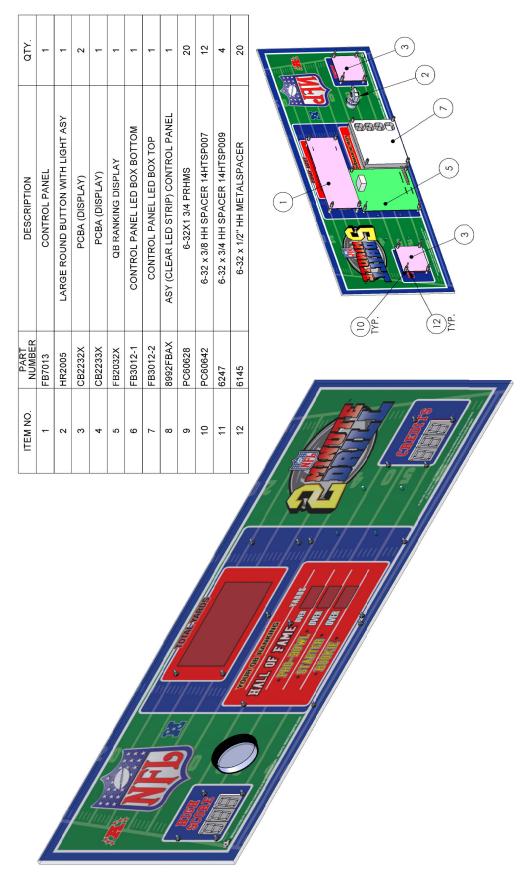










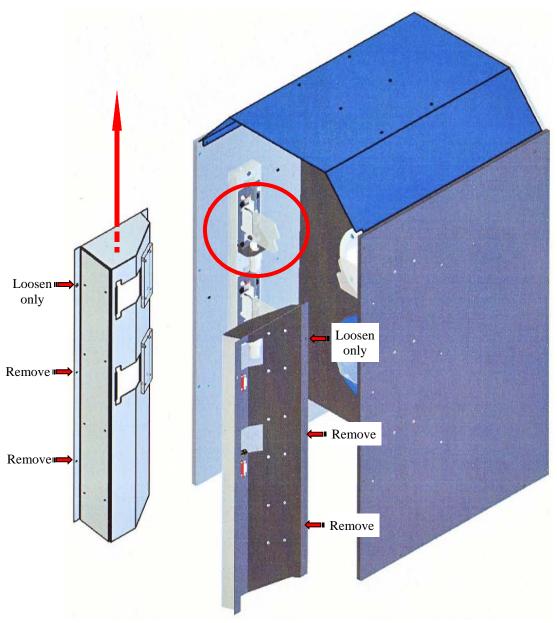


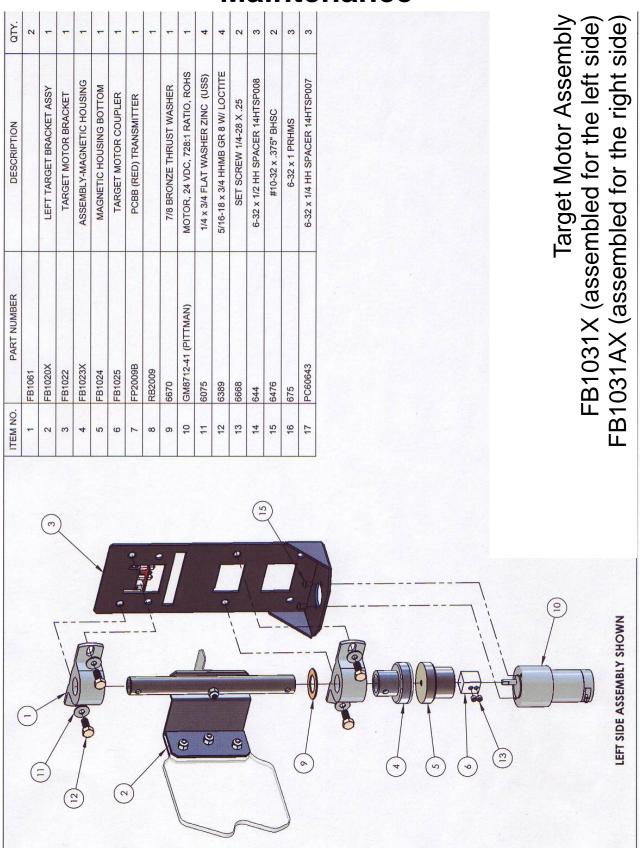
## Marquee light box assembly

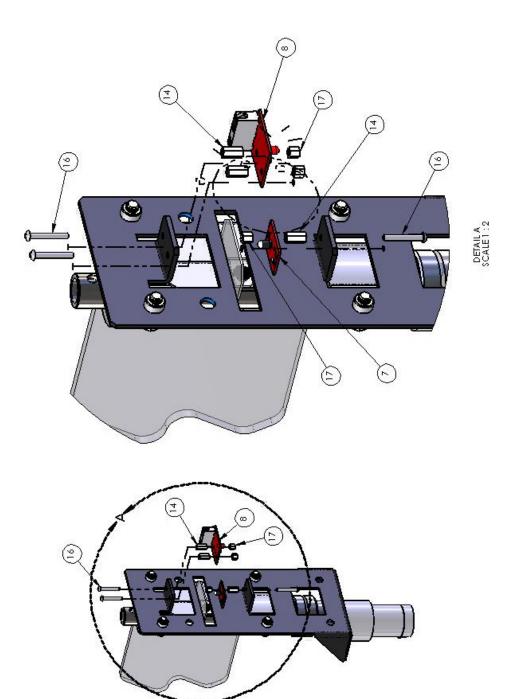
QTY.	-	-	-	-	4	4	9	9	-	-	4	-	4	-
0									SS					
		>.	31.7	ANEL	(SS)	#10 FLAT WASHER, BLACK (1/4-20)	BHCS, #8-32 x 1" LG. (BLACK OXIDE)	(X)	8312 BULB, SOCKET, CLIP FASTENERS		1/2"	120-L	(ER)	#4 x 1" LG. PH PAN TY AB SCREW
NO	MARQUEE WINDOW	SEMBL	SSEME	ACER P	SHCS (8	BLACK	(BLACK	R (BLA(	LIP FA	TOP	REW 1-	# WH3-	E (SILV	LY AB S
DESCRIPTION	UEE W	BOX AS	PLAY /	AY SP	2 1/4 B	SHER,	1" LG.	VASHE	CKET, C	LIGHT BOX TOP	ALL SC	ODELI	D. DRIV	H PAN
	MARC	LIGHT BOX ASSEMBLY	TIME DISPLAY ASSEMBLY	TIME DISPLAY SPACER PANEL	1/4-20 x 2 1/4 BSHCS (SS)	AT WA	#8-32 x	#8 USS WASHER (BLACK)	LB, SO	LIGI	#6 DRYWALL SCREW 1-1/2"	BALLAST MODELI# WH3-120-L	#8 x 5/8 SQ. DRIVE (SILVER)	"LG.P
			-	TIM	-	#10 FL	BHCS,	#	312 BU		9#	BAL	#8	#4×1
									8					
BER														
PAKI NUMBEK														
PAR	029	FB3079CX	FB3091X	860		_	~		8312 ASSY	194		_		_
+	FB7029	FB3	FB3	FB3098	6261	6430	6238	6240	8312	FB3094	6166	8449	6558	6189
I EM NO.	_	2	3	4	2	9	7	8	6	10	11	12	13	14

## **Target Covers**

To access the target motors you will need to remove the display housing. You also will need to ensure the targets are protruding out as shown below. Unlatch the harness clamps located in the back side of the game first. Remove the four mounting screws at the bottom back of the game in order to gain access to remove the back door. This will allow you enough slack in the wires to lift the covers off and lay them on their side. It is not necessary to fully remove the target covers to access the target motors. Only remove the four lower bolts and loosen the two top bolts. Slide the cover up until the top bolts heads can slide out the slotted holes. The diagram shows the location of the bolts. Bolt locations are shown on two different covers but exists on both sides of the cover.

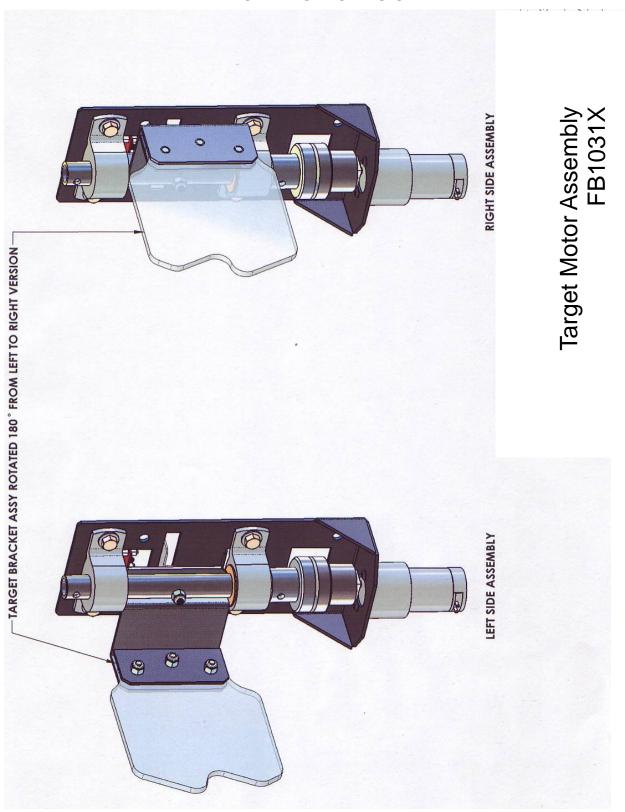


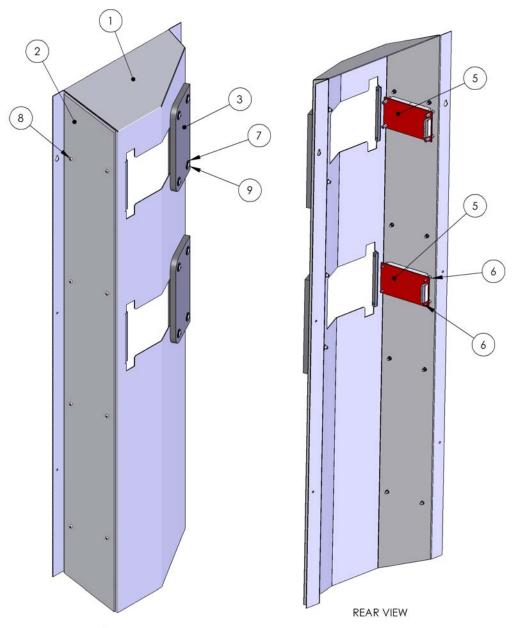




Target Motor Assembly FB1031X

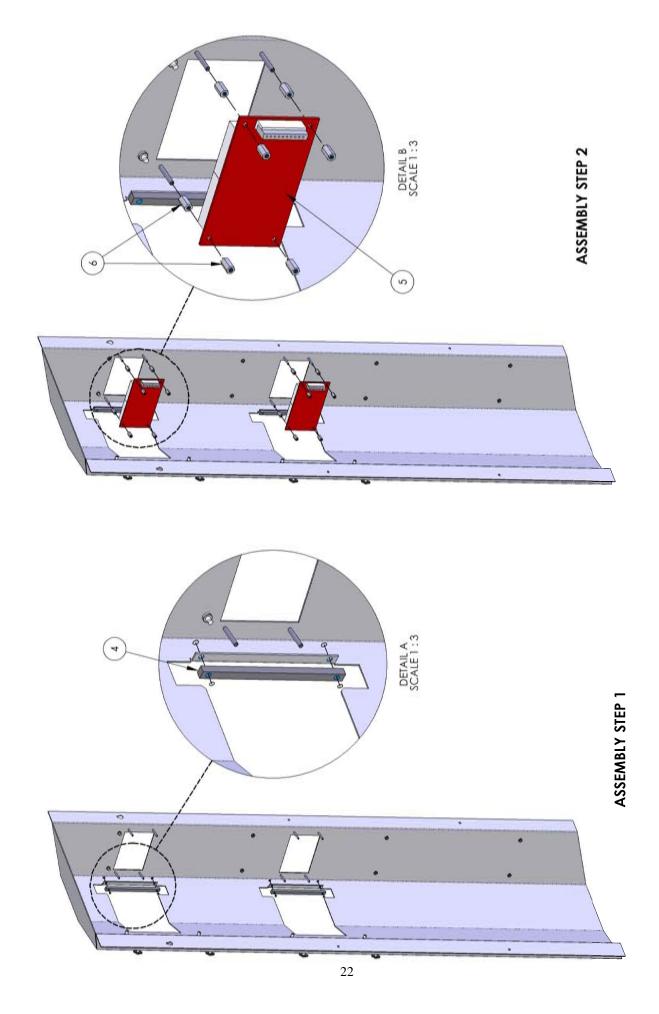
LEFT SIDE ASSEMBLY SHOWN

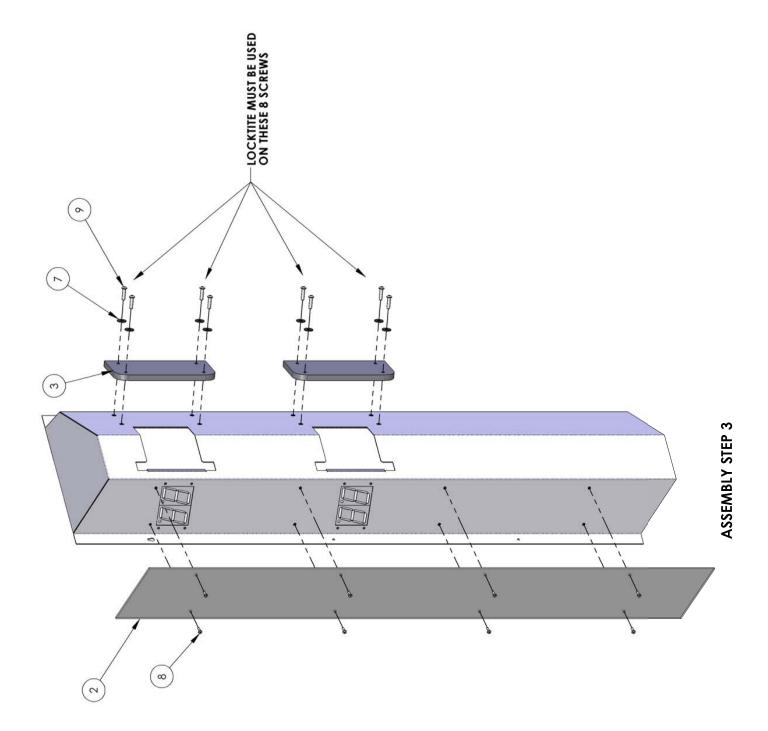




FRONT VIEW

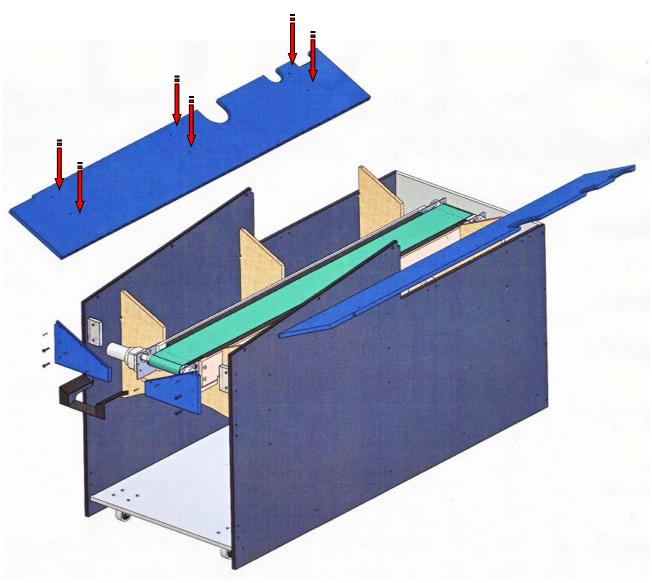
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FB1016	TARGET COVER LEFT/RIGHT	1
2	FB3014	DISPLAY STRIP LEFT/RIGHT	1
3	FB4005	TARGET COVER SPACER	2
4	FB4006	TARGET SMALL PADDING	2
5	DA2133X	PCBA (SMALL DISPLAY, BRIGHT)	2
6	6446	8-32 x 1/2 HH SPACER	16
7	6212	1/4 x 3/4 FLAT WASHER BLACK (USS)	8
8	6320	8-32 X 5/8 PRHMS W/LOCKTITE	8
9	PC60622	1/4-20 x 1" LG. BSHCS	8

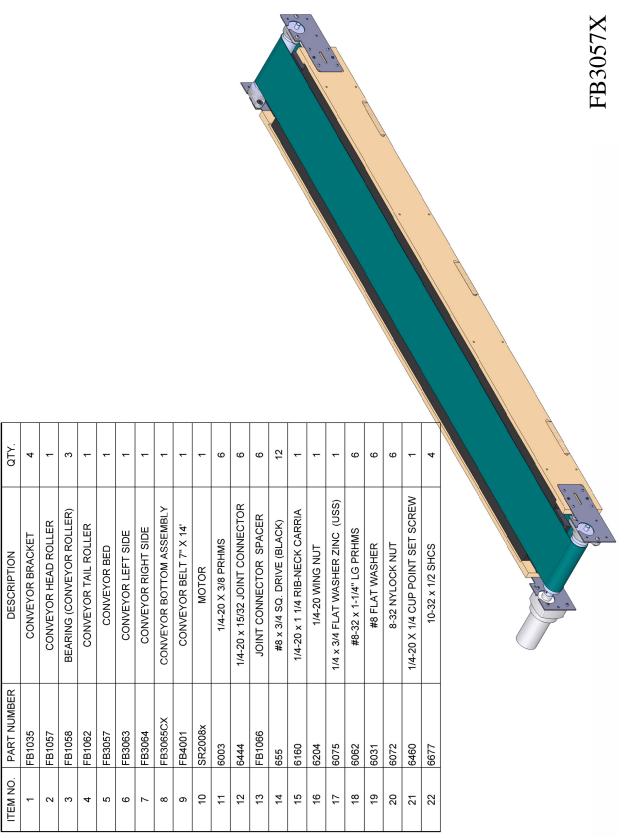


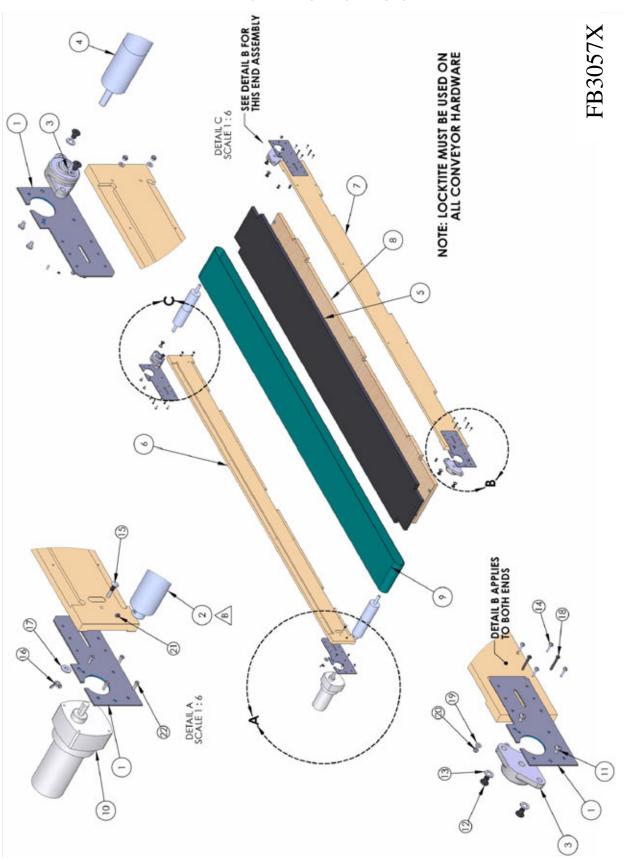


## **Conveyor Assembly Access**

To access the conveyor assembly you will need to remove the side wall panels. It is not necessary to remove the target covers in order to remove the side wall panels but to ensure that they are not scratched it is recommended. Refer to page 15 on how to remove target covers. Remove the five bolts holding the front cover plates first and remove the finger guard as shown below. Now remove the six screws holding the side wall panels. Slide the panel down and out if the target covers are still installed.

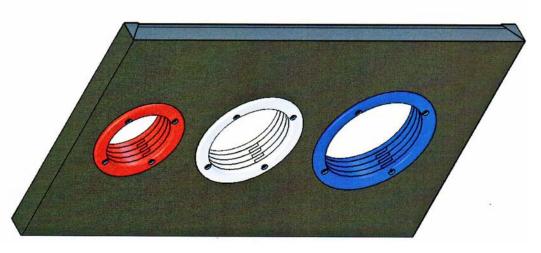


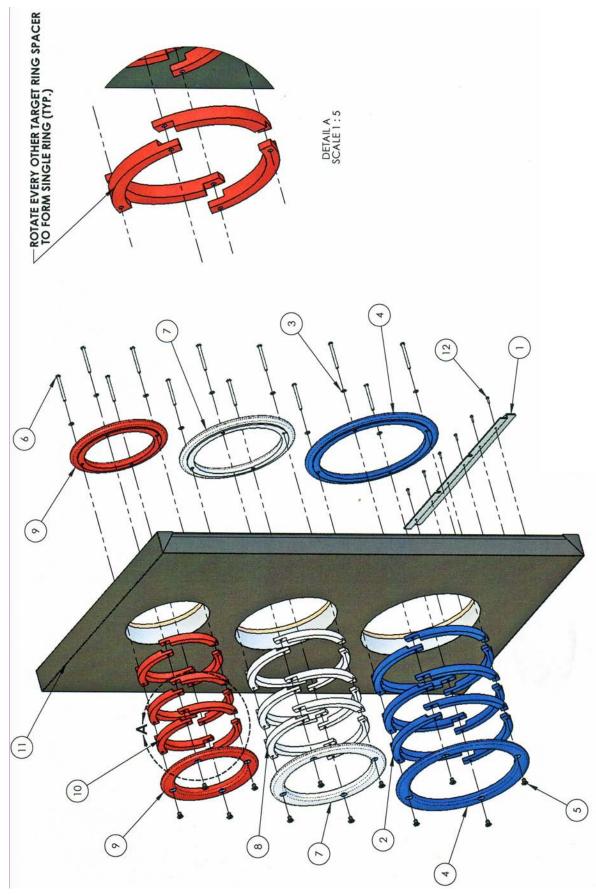


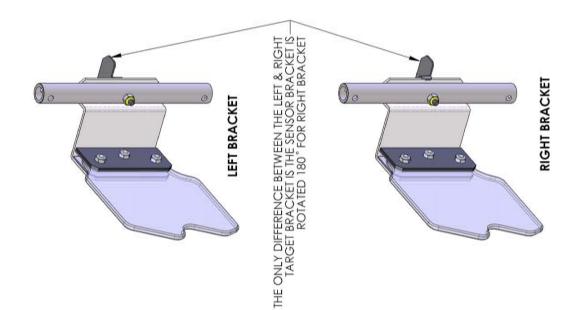


TEM NO. PART NUMBER   1   FB2035X   2   FB3081CX   3   FB4003   4   6088   5   6070   6   6004a   7   6457   8   FB3101   9   6075   10   4028   11   PC60604   11   PC60604   11   PC60604   12   PC60604   13   PC60604   14   PC60604   14   PC60604   15   PC60604   15   PC60604   16   PC60604   PC60604	TEM NO.   PART NUMBER   1   FB2035X   2   FB3081CX   3   FB4003   4   6088   5   6070   6   6004a   7   6457   8   FB3101   9   6075   10   4028   11   PC60604   PC60604	(a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	QTY.	3	37 1	-	9	9	12	DS) 12	-	9	9	9
11	1 TEM NO.	TIEM NO.	DESCRIPTION	DISPLAY BOARD	REAR ACCESS PANEL, HINGE ASSY	REAR DOOR FOAM PAD	1/4-20 X 3" HH FT BOLT	1/4 x 1-1/2 OD F-WASHER	8-32 KEP NUT	SHOCK MOUNT 8-32 (THD BOTH ENDS)	REAR DOOR DISPLAY COVER	1/4 x 3/4 FLAT WASHER	GROMMET	NYLOCK NUT, 1/4-20
(TEM NO.	(C)	TEM NO.	PART NUMBER	FB2035X	FB3081CX	FB4003	6088	0209	6004a	6457	FB3101	6075	4028	PC60604
			ITEM NO.	-	2			500						11
(4)	1 9 1							(	9			4		/.

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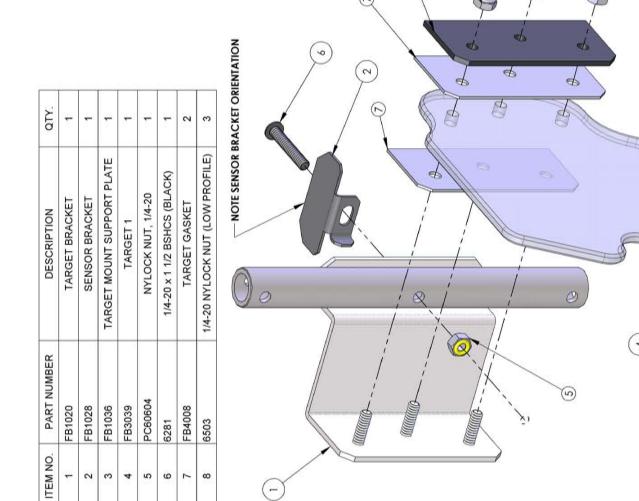


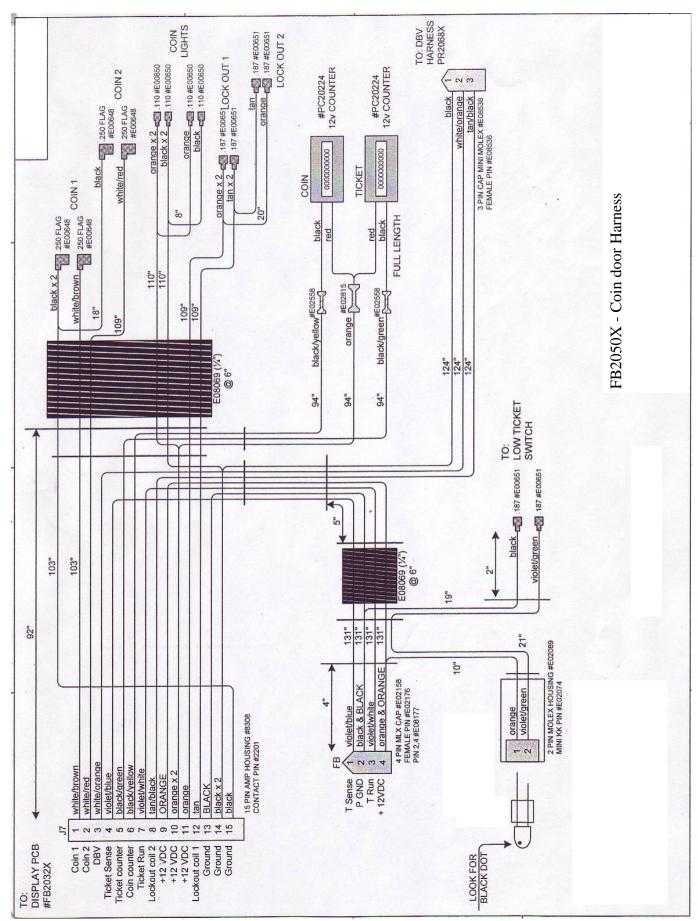


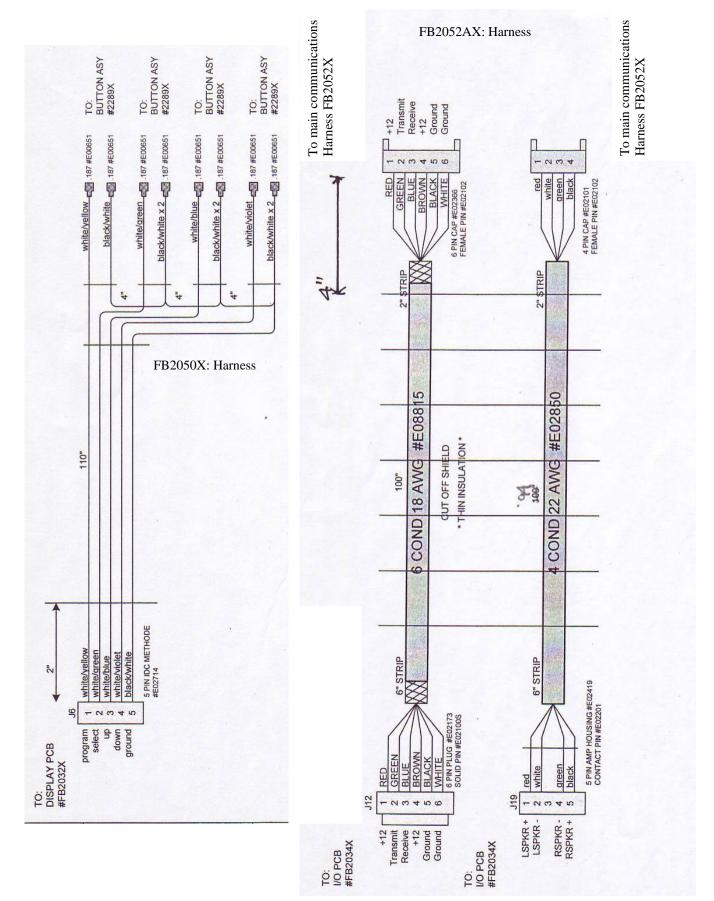
(00)

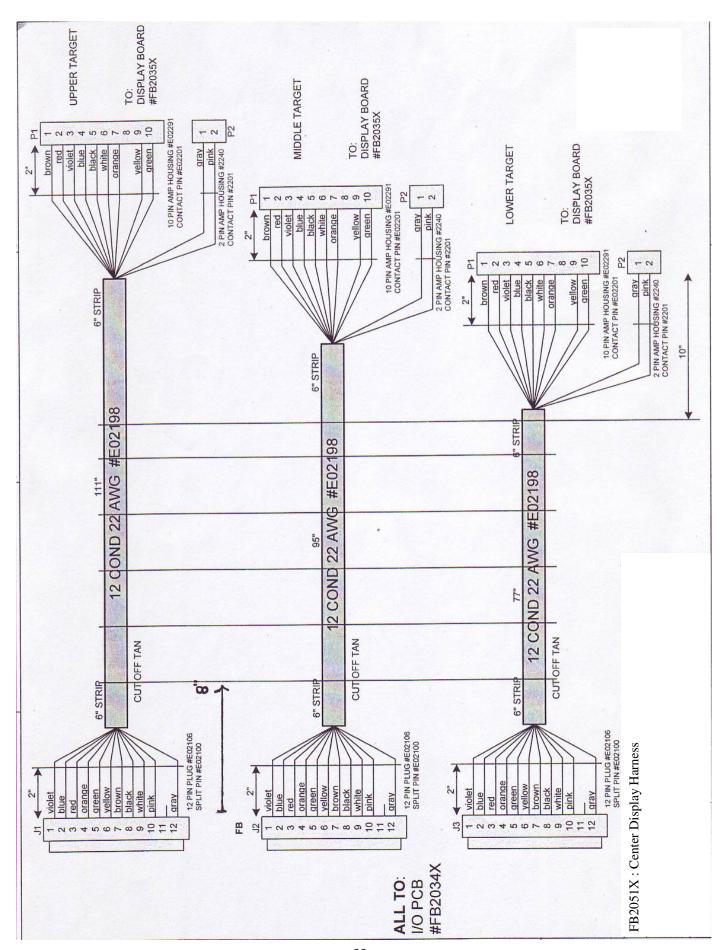
**LEFT BRACKET SHOWN HERE** 

3





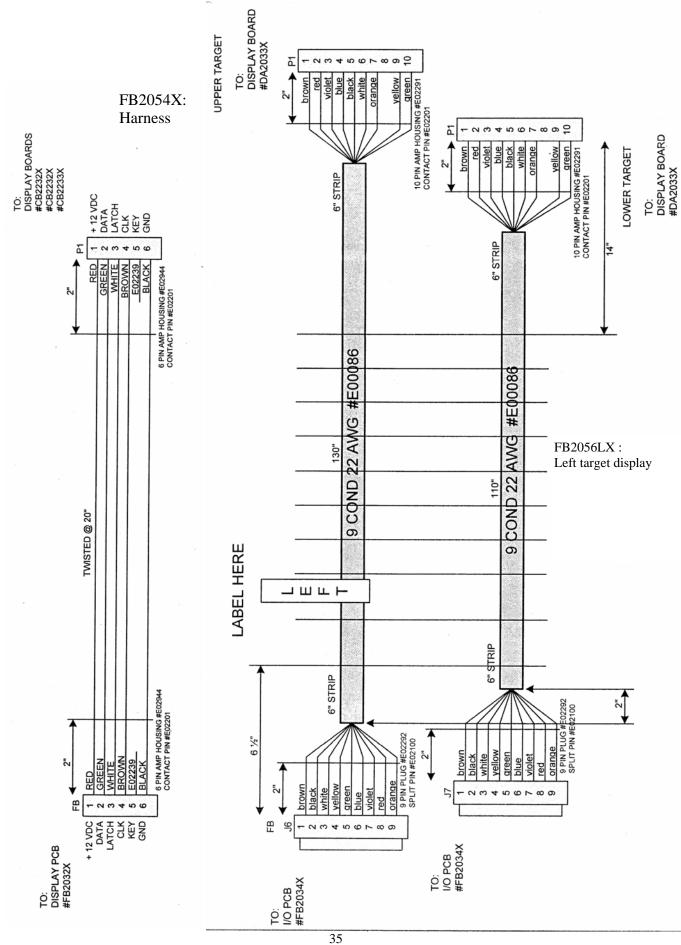


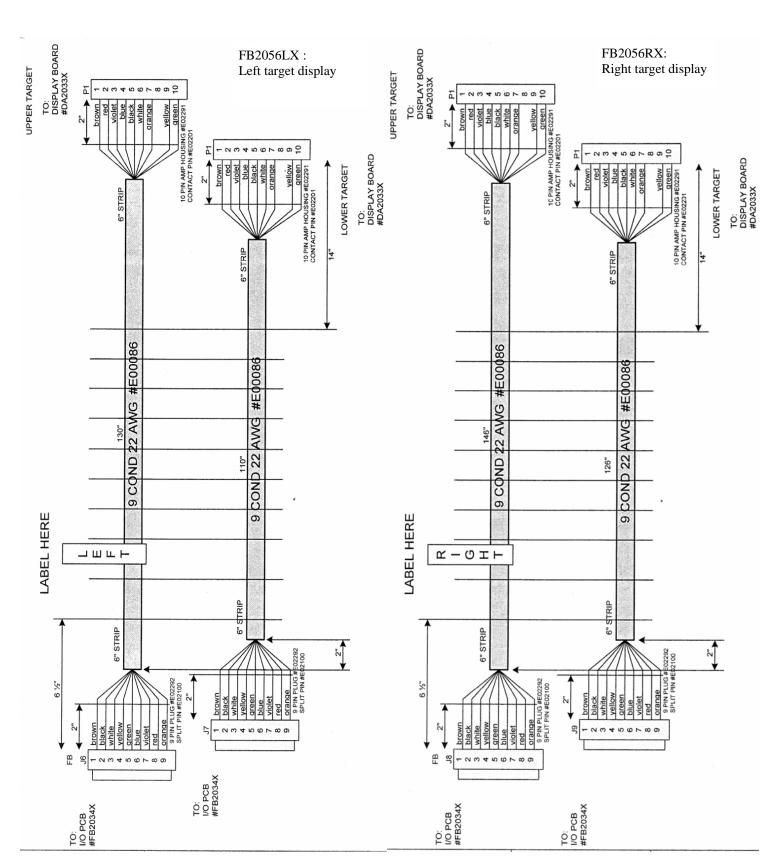


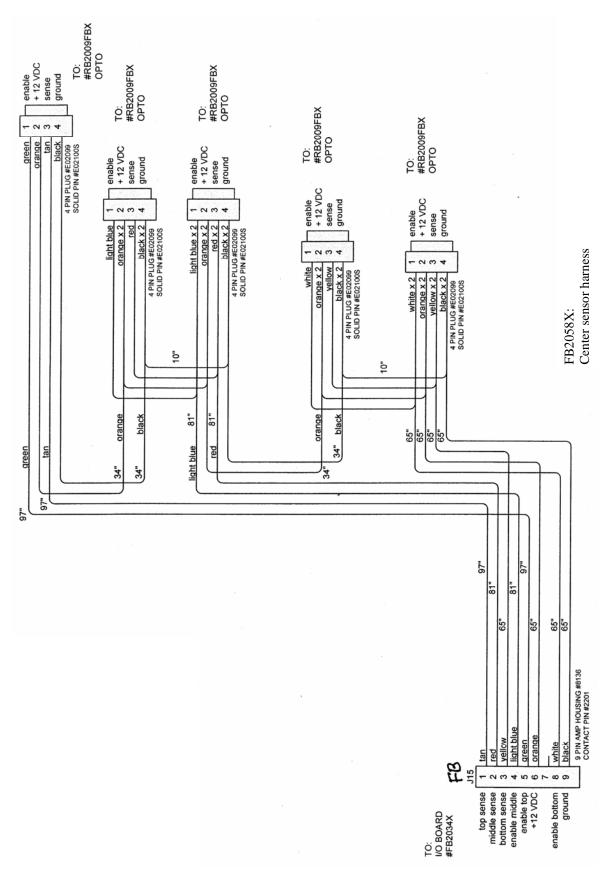
TO: DISPLAY PCB #FB2032X TO: CONTROL PANEL SPEAKER #AR2007 TO: FRONT SPEAKER #AR2007 Receive +12 +12 +12 Transmit Ground FB2057X: **Button Harness** red/gray (250 #E00653T brown/gray == 250 #E00653T 6 PIN PLUG #E02173 SOLID PIN #E021008

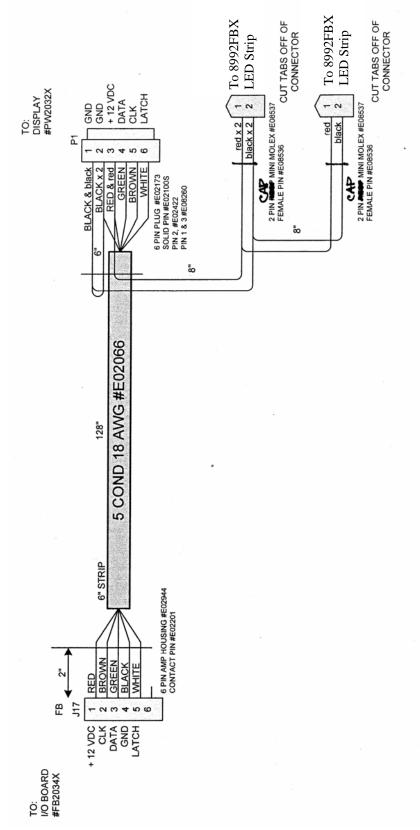
PIN 6 - E02422 5 20450 GREEN RED BLUE BLACK & WHITE BROWN To control panel buttons red/white = 350 brown/white = #E00653T orange x 2 cm .250 yellow/brown == .250 yellow/red = .250 orange = .250 #E00653T gray/red 250 #E00653T black x 2 € 33 #E00653T black (250 #E00653T gray/brown 250 #E00653T 6" STRIP FB2052X: Harness 8"1 ₩ COND 18 AWG #E08815 \* THIN INSULATION \* 83,18 **GUT OFF SHIELD** 4 4 4 4 4 .09 83" .09 9 6 PIN IDC METHODE #E08634 yellow/red gray/brown yellow/brow gray/red orange black 26" STRIP 89 **−**00450 To main communications extension red/gray brown/gray red/white brown/white 4 PIN PLUG #E02099 SOLID PIN #E02100S 6 PIN PLUG #E02173 SOLID PIN #E02100S TO: DISPLAY PCB #FB2032X BLUE BROWN GREEN BLACK WHITE FB H62652~ pur FB2052AX FB2052AX +12 Transmit Receive +12

To main communications extension

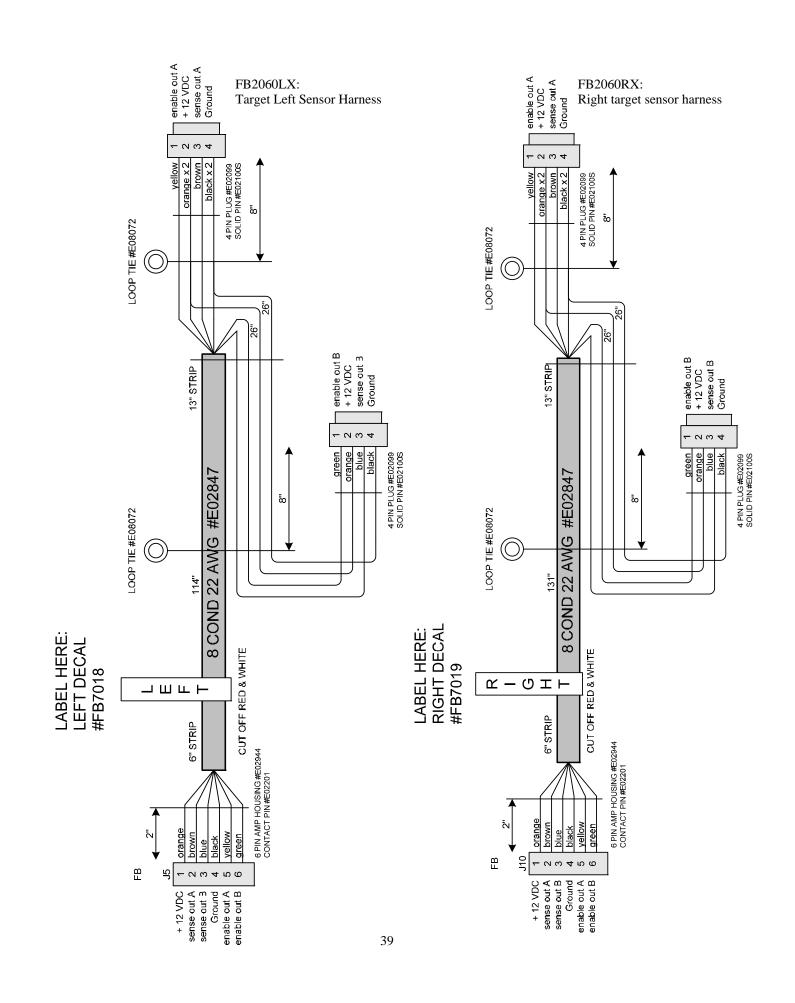


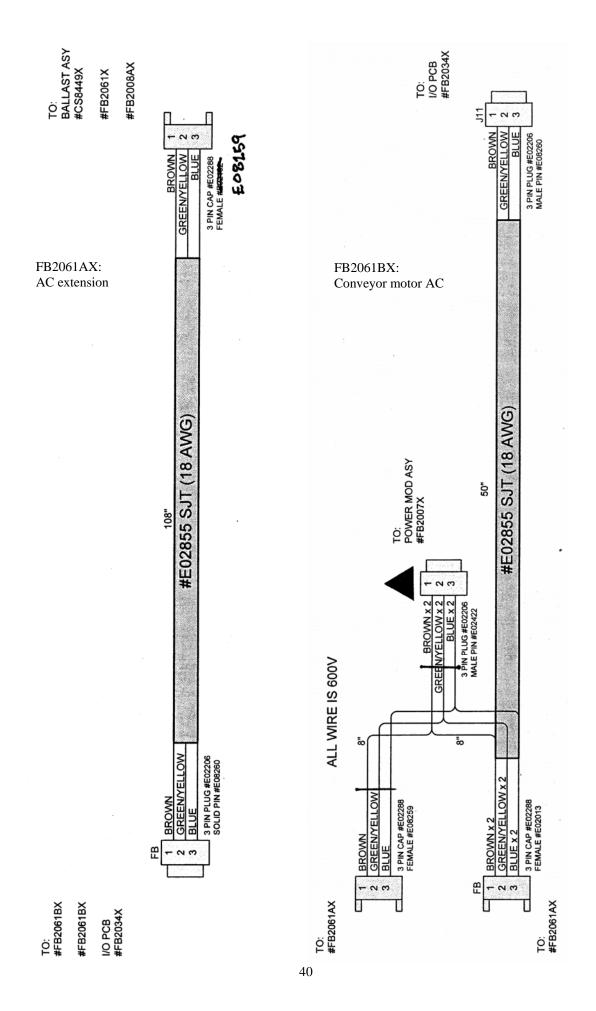


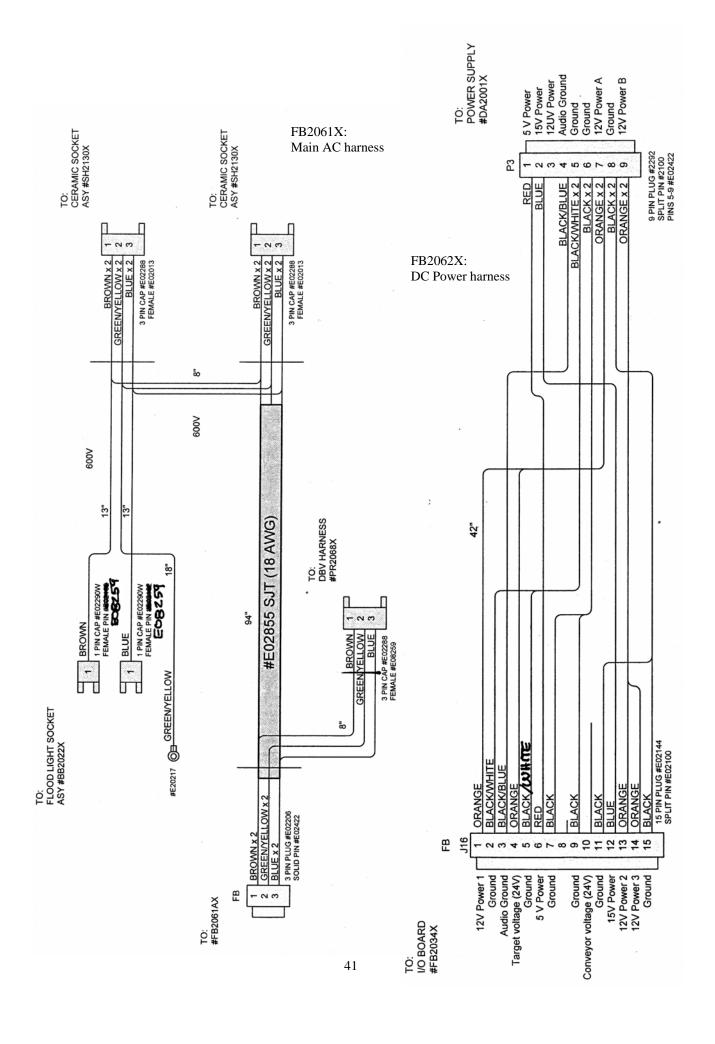


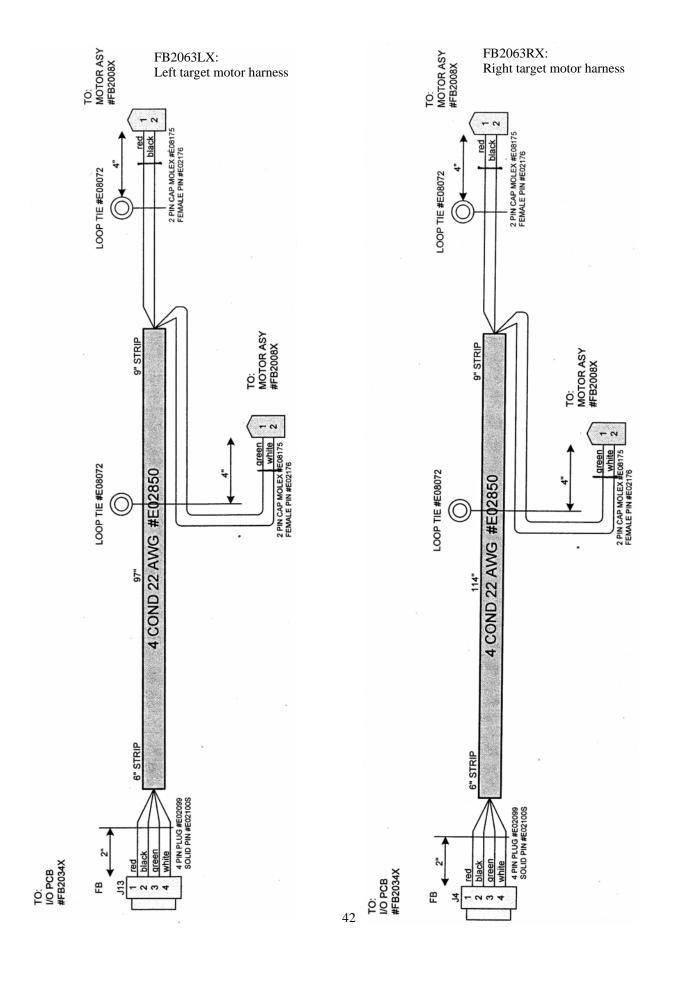


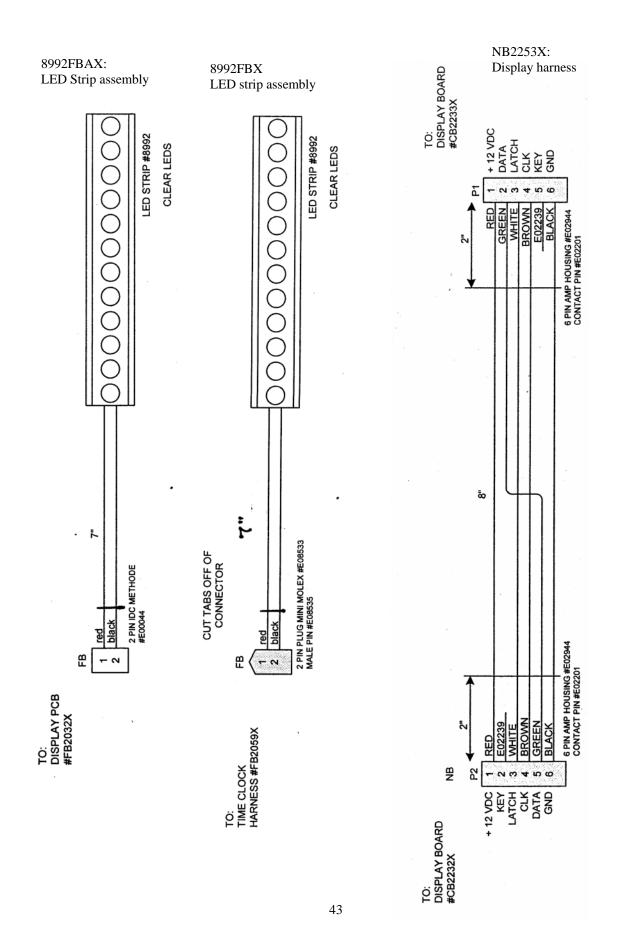
FB2059X: Time Clock Harness

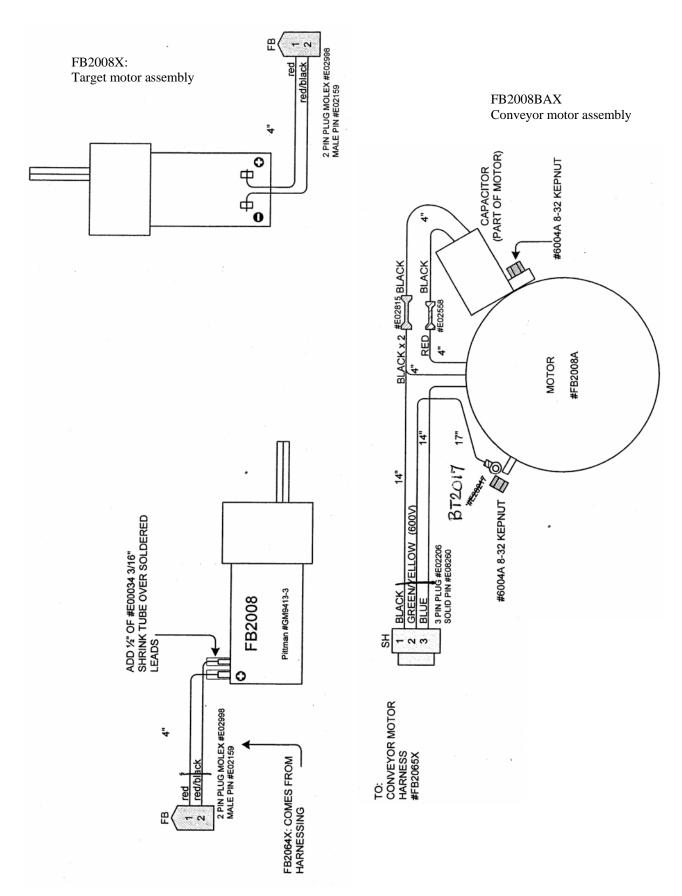


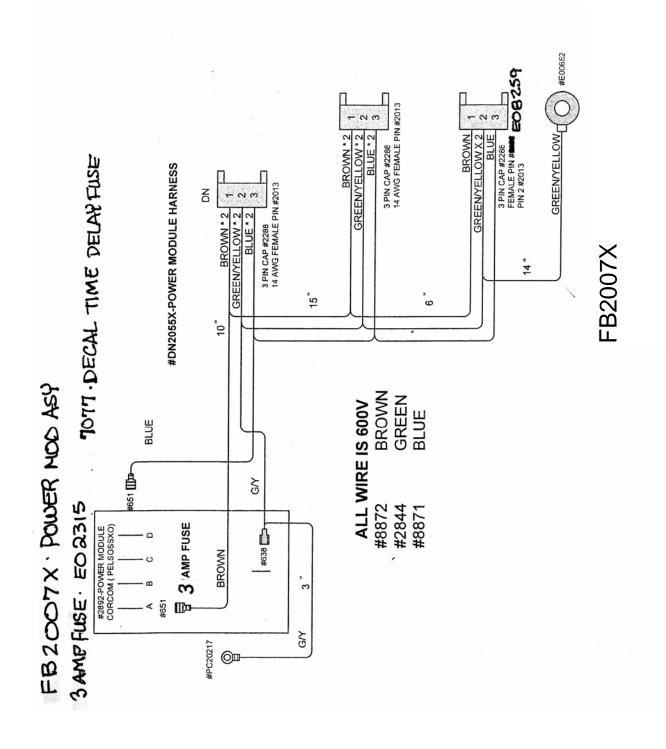












# **Spare Parts Listing**

#### **Electronics:**

FB2002X Isolation Transformer (for TUV games)

1029WSX ASY RESET BUTTON

8992FBAX ASY (CLEAR LED STRIP for control panel) 8992FBX ASY (CLEAR LED STRIP for game clock)

AR2007 6X9 SPEAKER

BB2022X ASY FLOOD LAMP SOCKET

CB2232X PCBA (DISPLAY) CB2233X PCBA (DISPLAY) CS8449X ASY (BALLAST)

DA2001X PCBA (POWER SUPPLY)
DA2002X ASY (TRANSFORMER)
DA2133X PCBA (SMALL DISPLAY)
FB2007X ASY (POWER MOD 3 MDQ)

E00377 BULB OF FLOOD

FB2008AX ASY (CONVEYOR MOTOR)

FB2008X ASY (TARGET MOTOR) included in FB1031X

FB2032X PCBA (DISPLAY) FB2033X PCBA (TIME CLOCK)

FB2034X PCBA (MAIN I/O) \*\* Cannot be purchased separate E08716 FLASH CARD \*\* Cannot be purchased separate

E2034X PCBA (BRAIN BOARD) \*\* Cannot be purchased separate

FB2035BX PCBA (DISPLAY, BLUE LEDS)
FB2035RX PCBA (DISPLAY, RED LEDS)
FB2035WX PCBA (DISPLAY, WHITE LEDS)
HR2005 BUTTON LG ROUND WHITE

PP250X ASY (SOCKET)

RB2009FBX \*\* PCBA (OPTO SENSE FOOTBALL)

RB2009BX \*\* PCBA (OPTO SENSE) included in FB1031X

RB2009EX \* (OPTO SENSE FOOTBALL)

FP2009EX \* PCBA (OPTO SENSE) included in FB1031X

#### Mechanical:

FB1031X ASY, TARGET MOTOR LEFT SIDE FB1031AX ASY, TARGET MOTOR RIGHT SIDE

FB1061 PILLOW BLOCK BEARING

FB3013 REBOUND GUARD

FB3014 DISPLAY STRIP LEFT/RIGHT

FB3015 NUMBER GUARD

FB3039 TARGET

#### **NOTE:**

\*\*Games manufactured before June 2008
\*Games manufactured after June 2008

# **Spare Parts Listing**

#### Decals:

START BUTTON FB7001 FB7003 BALL RETURN DECAL FB7005 Target Top Left **Target Top Right** FB7006 FB7007 **Target Bottom Left** FB7008 Target Bottom Right CONTROL PANEL FB7013 FB7029 MARQUEE-GAME CLOCK

#### Miscellaneous:

FB3001 8.5" FOOTBALL

FB4001 ENDLESS CONVEYOR BELT

FB4002 FRONT TARGET PAD

FB4003 REAR DOOR FOAM PAD

FB7011 NFL BLACK SCRIM VINYL

RR5001-P802 COIN DOOR (TRIPLE) SINGLE MECH Black

RR5001-P200 COIN DOOR (TRIPLE) SINGLE MECH Orange Gloss

RR5001-P901 COIN DOOR (TRIPLE) SINGLE MECH Gold Metallic

RR5001-P903 COIN DOOR (TRIPLE) SINGLE MECH Powder Gray

#### MARQUEE:

E02016 25' PHONE CORD 2770 7' PHONE CORD

# **Spare Parts Listing**

#### Options (continued):

FB2002CX Option: 220v

FB2600X DBV

FB1000CX Option: Competition mode FB1000TD Option: Ticket dispenser RR5001FBX Option: Blank triple door

FB1000ARIX Arizona Cardinals
FB1000ATLX Atlanta Falcons
FB1000BALX Baltimore Ravens

FB1000BUFX Buffalo Bills

FB1000CARX Carolina Panthers FB1000CINX Cincinnati Bengal's **Cleveland Browns** FB1000CLEX FB1000DALX Dallas Cowboys FB1000DENX Denver Broncos FB1000DETX **Detroit Lions** FB1000GENX Generic Game FB1000GREX Green Bay Packers **Houston Texans** Indianapolis Colts

FB1000HOUX FB1000INDX Jacksonville Jaguars FB1000JACX FB1000KANX Kansas City Chiefs FB1000MIAX Miami Dolphins FB1000MINX Minnesota Vikings **New England Patriots** FB1000BEOX FB1000NOSX **New Orleans Saints** New York Giants FB1000NYGX

FB1000NYJX
FB1000OAKX
FB1000PHIX
FB1000PITX
FB1000SDCX
FB1000SEAX
Pow York Jets
Oakland Raiders
Philadelphia Eagles
Pittsburg Steelers
San Diego Chargers
Seattle Seahawks

FB1000SF4X San Fran Cisco 49ers FB1000STLX Saint Louis Rams

FB1000TAMX Tampa Bay Buccaneers

FB1000TENX Tennessee Titans

FB1000WASX Washington Red Skins



# NFL 2 Minute Drill ASSEMBLY GUIDE

# Production Game Rev C

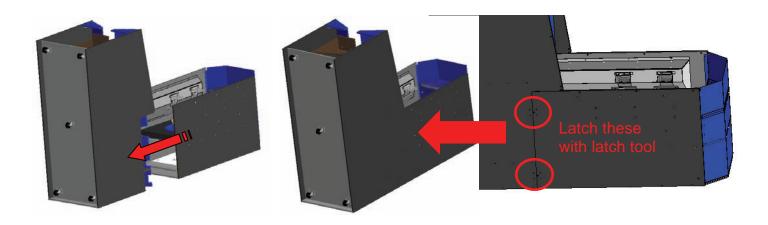
2/8/2008

#### Overview:

Please review assembly instructions before beginning assembly. It will be necessary to have at least two people to assemble this game.

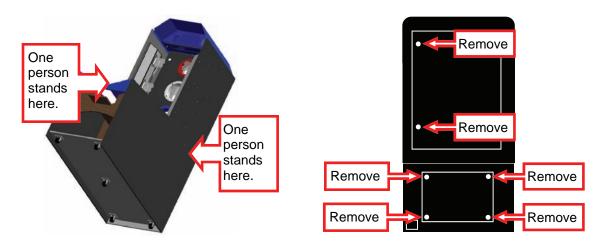
#### Step 1:

With two people position the upper rear and conveyer base as shown in below. Slide the two halves together and latch the halves with the provided tool found in the cash box. Be careful not to catch any harness or connectors while sliding the two halves together.



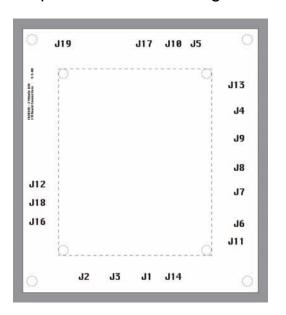
#### Step 2:

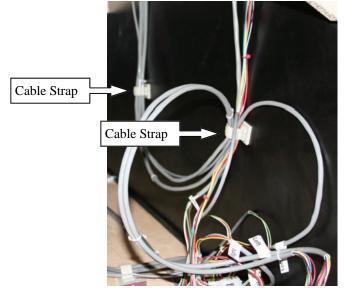
Two people are required to lift the two halves to their up right position, see below. Remove the lower back panel by remove the four mounting bolts and open the upper rear section to access the wire harnesses. See drawing below for the location of the bolts.



#### Step 3:

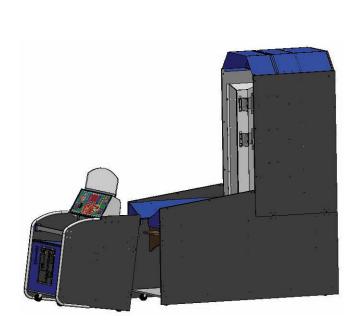
Connect the upper rear section harnesses to the main board. All wire connectors are labeled and connect to the same labeled connections found along the side of the main board. See example of label below. Attach the excess cabling into the two cable straps mounted on the right side of the cabinet. See the picture below.

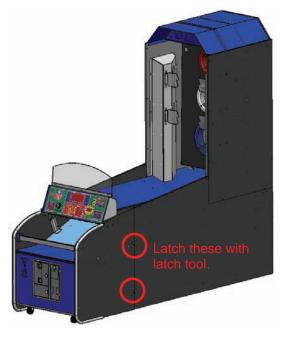




#### Step 4:

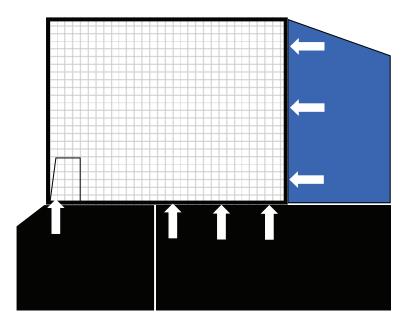
Position the front half so you can attach the wire harnesses together. Angle the front as shown below and push the front half forward until flush with other cabinet. Be careful not to pinch any harnesses and latch with supplied latch tool.





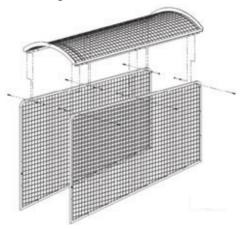
#### Step 5:

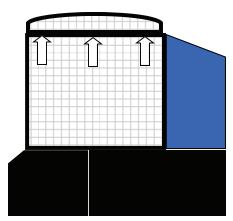
Loosen the 3 hat nuts mounting the control panel shown on step 7 before positioning the cages. Position the side cages onto the cabinet and install (7) 1/4-20 bolts (use 5/32 Allen) and (7) 1/4-20 inserts (use 3/16 Allen) as shown in picture 4a and arrow drawing below. You will have to climb into the cabinet to install the side cages. The cages will slide down and back. Be sure to tighten the cage bolts before proceeding.



#### Step 6:

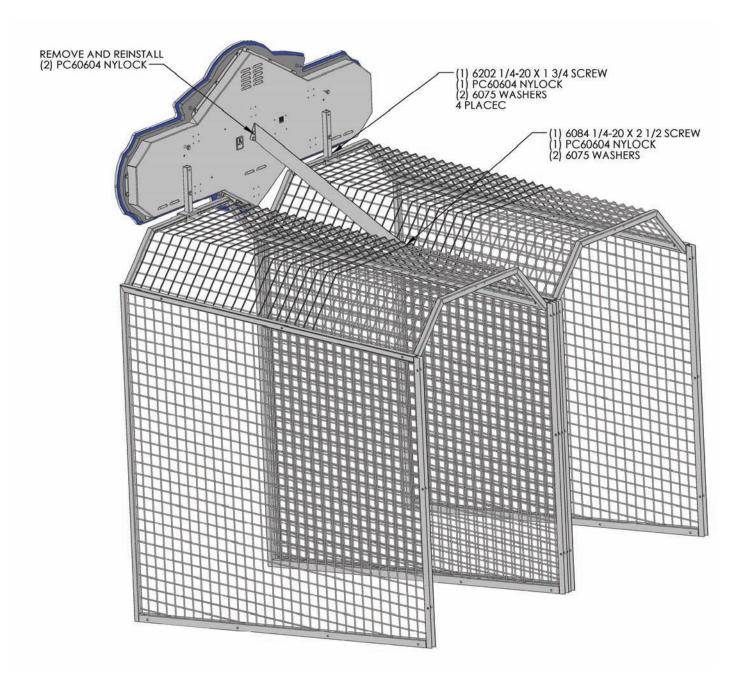
Install the top cage being careful not to bend the sides out as the top will be unstable. Attach using (6) 1/4-20 bolts (use the 5/32 Allen) and (6) 1/4-20 inserts (use the 3/4 Allen), three per side. See picture 5a and diagram for bolt locations.





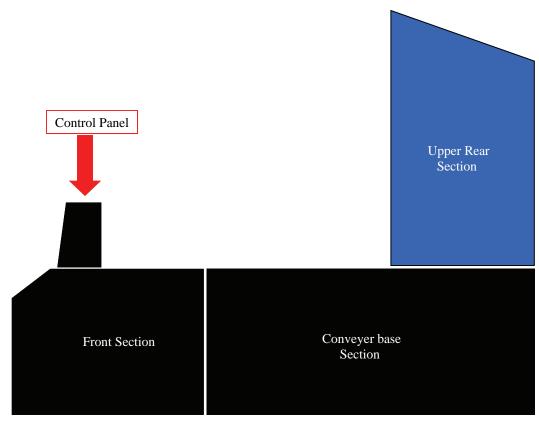
### Marquee Install

The marquee can be installed for two or more games. It is recommended to place the marquee as close to the center of the games as possible. See diagram below for location of mounting bolts. Game software installed must be version 3.0 or greater for marquee to communicate with game.



## **Section Diagram**

The game is manufactured in three sections. Here is a diagram with the sections labeled for identification during assembly.



#### Spares package includes the following:

Ice Part	Description	Qty
3052	Black hole plug	8
6001B	Allen wrench 3/16"	1
6105	Latch Tool	1
6110	Joint connector 1/4-20 Thread	20
6212	1/4 x 3/4 Flat washer black	20
CG2027	Power cord 9' 10"	1
FB9001	Service Manual	1
PC60601	1/4-20 x 5/8 BHCS (black)	12
PC60601A	Allen wrench 5/32"	1
PC60622	1/4-20 x 1 BSHCS BLK	6
6281	1/4-20 x 1 1/2 BSHCS	2
	Programming Insert	1
	Assembly insert	1
	Schematic insert	1



# NFL 2 Minute Drill PROGRAMMING GUIDE

# SOFTWARE VERSION Production 3.00

#### **Programming Description**

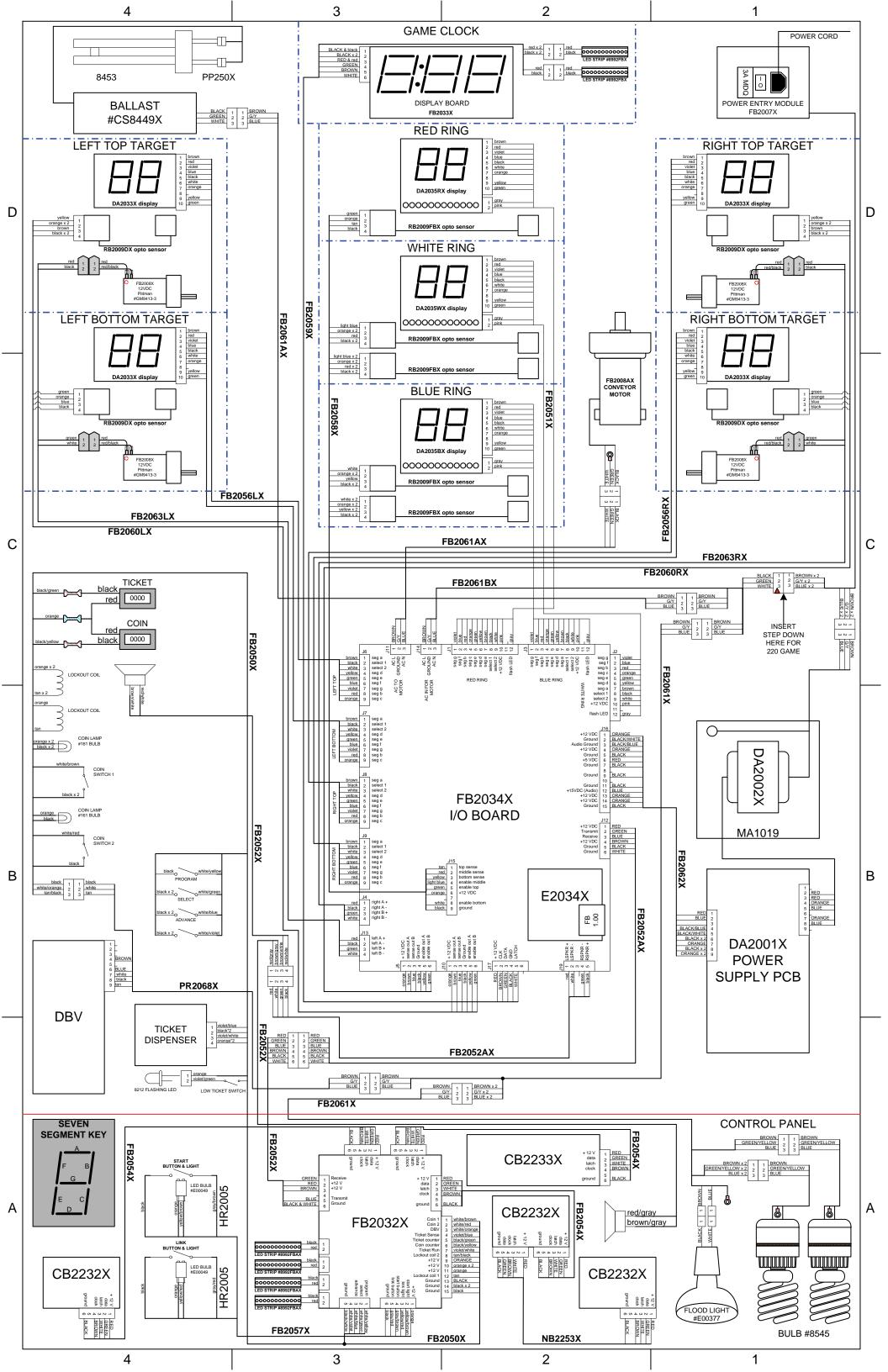
To enter programming, open the coin door and press the button labeled "PROG" which is on the left. The display "credits" will show which option you are on. The display "Total Yards" will show the current value. No other displays will update until you exit programming. Press the select button to cycle through options and press the advance button to change the value. Press program button again to exit and save changes.

Option Label		Description	Value	Default
0	VOLUME	Sets the sound level	0-8	3
1	COIN1	Cost of the game in coins	0-10	2
2	COIN2	How many Coins is the Coin 2 input worth	0-10	1
3	DBV	How many Coins is the DBV input worth	0-10	4
4	DISCOUNT	How many Coins before Discount	0-10	0
5	TIME	How fast it counts down in seconds, 66=40 seconds	66-200	66
6	RTICKETS	Rookie Tickets	0-10	5
7	STICKETS	Starter Tickets	1-50	10
8	PTICKETS	Pro Tickets	1-50	15
9	HTICKETS	Hall of Fame Tickets (value x 5)	1-199	100
10	SSCORE	Starter Min Score (value x 5)	10-100	200
11	PSCORE	Pro Min Score (value x 5)	10-100	400
12	HSCORE	Hall of Fame Min Score (bonus) (value x 5)	10-180	600
13	SAVE	Save High Score 0 = no	0-1	0
14	AUTO	Auto Adjust 0 = no Hall of Fame Target Value Adds value to the Hall of Fame	0-100	25
15	ATYPE	0 = off, 1 = Audio Only, 2 = Motion only, 3 = Both		3
16	ATIME	Attract Time in minutes	00-90	3
17	FACTORY	Factory Reset	0-1	0

### **Error Code Description**

When your game is powered on it will run some self tests to determine the functionality of the game. If any errors occur, then game will display the error and wait until it is cleared. The game will not proceed until the error is fixed.

Error	Description
1	Compact Flash
2	Top Left Motor Sensor Stuck off
3	Top Right Motor Sensor Stuck off
4	Bottom Left Motor Sensor Stuck off
5	Bottom Right Motor Sensor Stuck off
6	Top Sensor Stuck off
7	Middle Sensor Stuck off
8	Bottom Sensor Stuck off
9	Top Left Motor Sensor Stuck on
10	Top Right Motor Sensor Stuck on
11	Bottom Left Motor Sensor Stuck on
12	Bottom Right Motor Sensor Stuck on
13	Top Sensor Stuck on
14	Mid Sensor Stuck on
15	Bottom Sensor Stuck on
16	Top Left Motor Inoperative
17	Top Right Motor Inoperative
18	Bottom Left Motor Inoperative
19	Bottom Right Motor Inoperative







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