

*A Gravity Defying
Skill Game!*

FREE FALLIN'



Free Fallin' to the Max
Dimensions: 44" d x 46" w x 126" h
Weight: 670 lbs.

*MAGICALLY
Stop "Free Falling"
Ball...*



*Available as
Standard
or
"Take it to the Max!"*



Free Fallin' Standard
Dimensions: 44" d x 32" w x 103" h
Weight: 430 lbs.



Innovative Concepts in Entertainment • 10123 Main Street • Clarence, New York 14031
Phone: 716-759-0370 Fax: 716-759-0390 • Email: play@icegame.com • Visit: 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. 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. DO NOT WASH YOUR GAME WITH A PRESSURE WASHER.

AVERTISSEMENT: lors de l'installation de ce jeu, la terre AC réceptacle doit être utilisé. Ne pas le faire pourrait entraîner un préjudice à vous ou à d'autres. Le non-recours à la terre réceptacle pourrait également causer une mauvaise opération de jeu, ou les dommages causés à l'électronique. NE PAS détériorer ou de retirer la broche de terre sur le cordon d'alimentation pour la même raison, comme indiqué ci-dessus. Indûment l'aide d'un jeu de la terre pourrait annuler votre garantie. Ont un électricien qualifié de vérifier votre réceptacle AC pour s'assurer que le sol fonctionne correctement. Ne lavez pas votre jeu avec une laveuse à pression.

INSTALLATION

The game comes ready to play with just a few simple things to keep in mind.

1. 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.

Ne retirez pas l'un des composants sur la carte principale (par exemple Compact Flash et EPROMs), tandis que le jeu est sous tension. Cette mai causer des dommages permanents aux parties et la carte principale. Suppression de tout bord principal élément sous tension alors que annulera la garantie.

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.

REMARQUE: CE JEU EST DESTINÉ POUR USAGE À L'INTÉRIEUR SEULEMENT.

SUR LE PANNEAU ARRIÈRE DU JEU: AVERTISSEMENT: RISQUE DE CHOC - NE PAS OUVRIR. RÉPARATION À UN PERSONNEL DE SERVICE.

SETUP - INTRODUCTION

Game play:

The player starts the game by inserting a coin into the coin mech. The ball will begin to circulate throughout the playfield. As the ball falls it is deflected off of the pegs. Once the ball enters the chute, the player must press the "STOP" button where he/she thinks they can capture the ball to get the most points.

Features:

- Ticket dispensers.
- Easy to program
- Coin and ticket meters.
- Operator adjustments.
- Error codes.
- High reliable playfield blower with warranty.
- Self error/fault checking.
- Made in the USA.

Programming:

To enter programming, press the program button located inside the coin door. The playfield display will show the option number and its value.

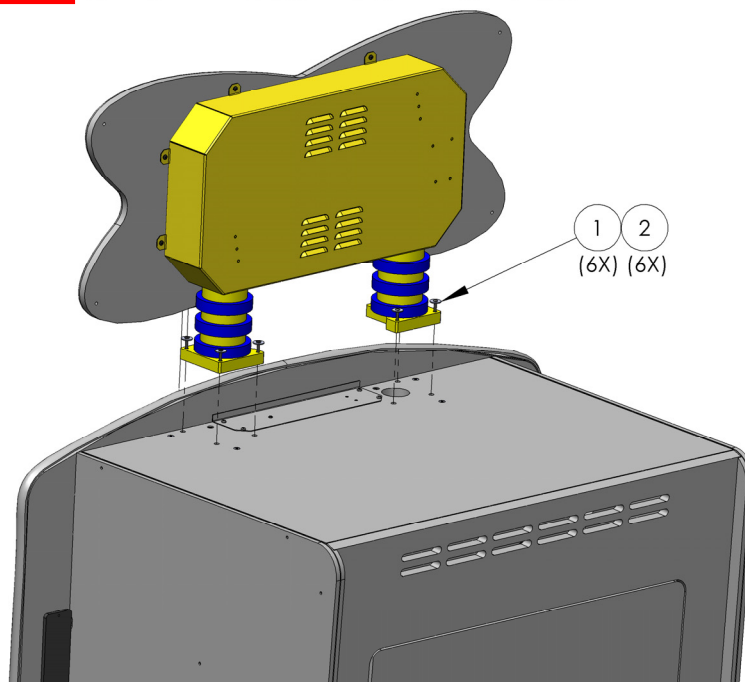
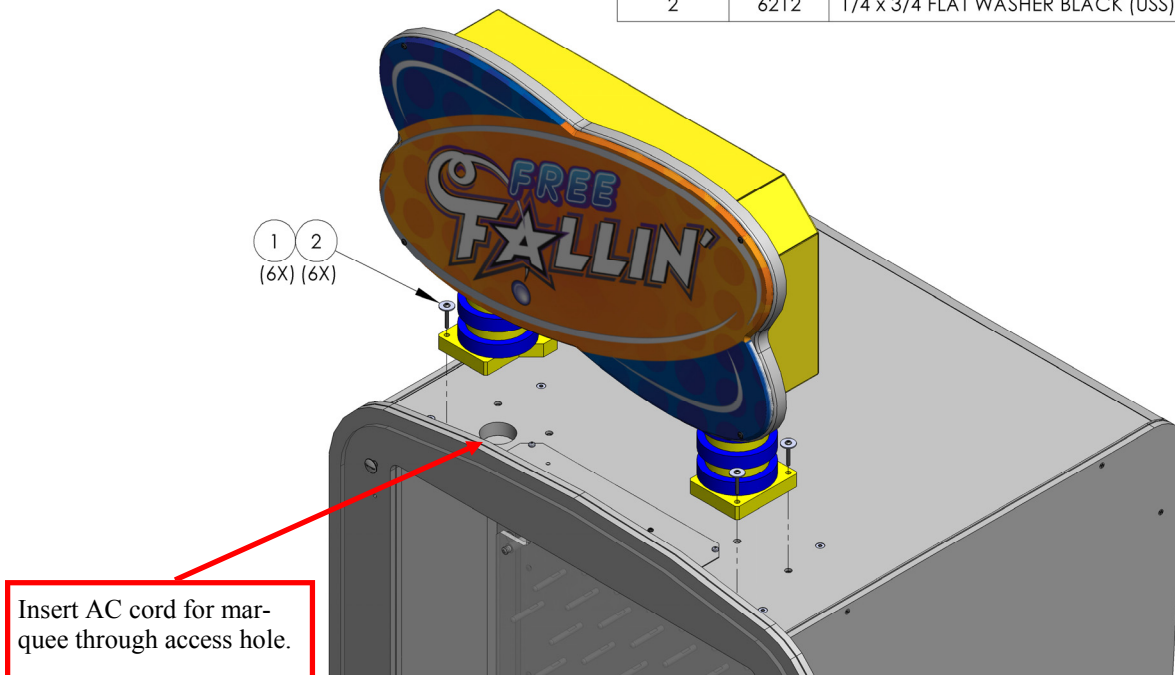
Option	Default	Min	Max	Increment
Volume	5	0	8	1
Coin 1	1	1	4	1
Coin 2/DBV	0	0	4	1
Bonus Value	100(500)	10(50)	200(999)	5
Attract Time	3	0	99	1
Factory	0	0	1	1

SETUP - GAME ASSEMBLY

Marquee Install Instructions:

Position Marquee on top of game as shown below. Be sure and connect the marquee wiring to the AC connector in the game before attaching the marquee hardware. Insert one screw with washer into each mounting hole and tighten. The AC connector for the marquee is located inside the access hole.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	6272	8-32 x 1 1/4 BHCS (BLACK ZINC)	6
2	6212	1/4 x 3/4 FLAT WASHER BLACK (USS)	6






SERVICE

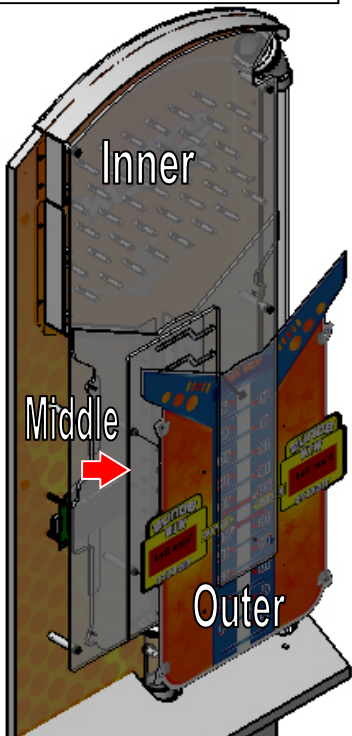
Front Plastic Removal

Removal of the front plastic is necessary to gain access to the sensor arrays, LEDs, and playfield displays. Remove the six slotted screws as shown in fig A.

Playfield Removal

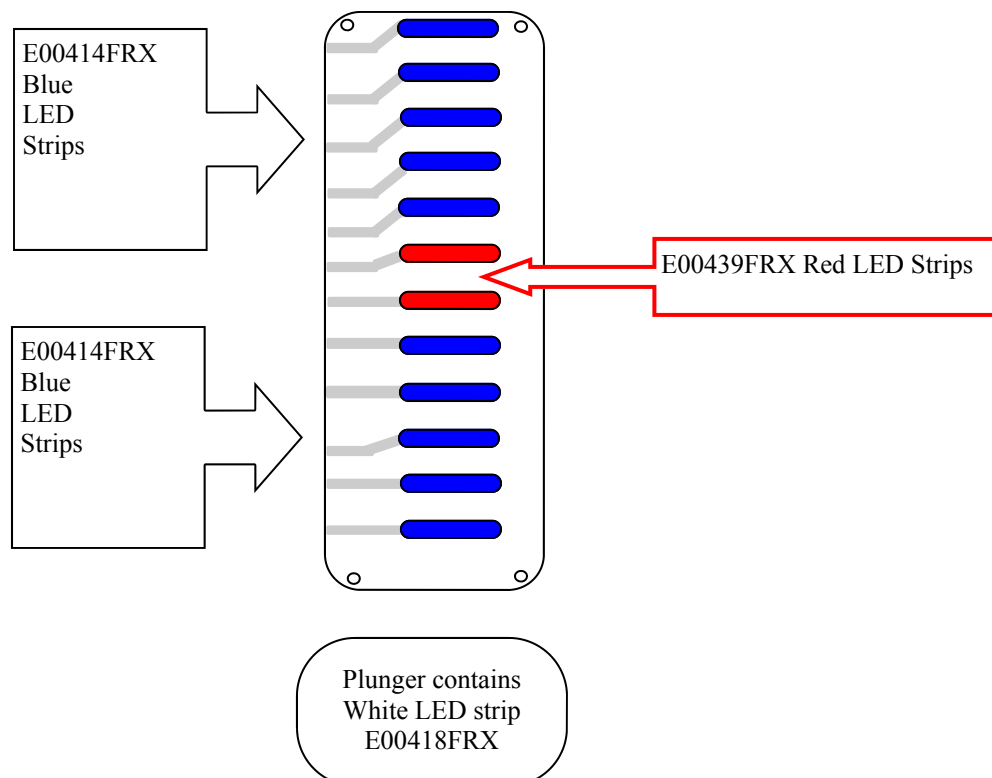
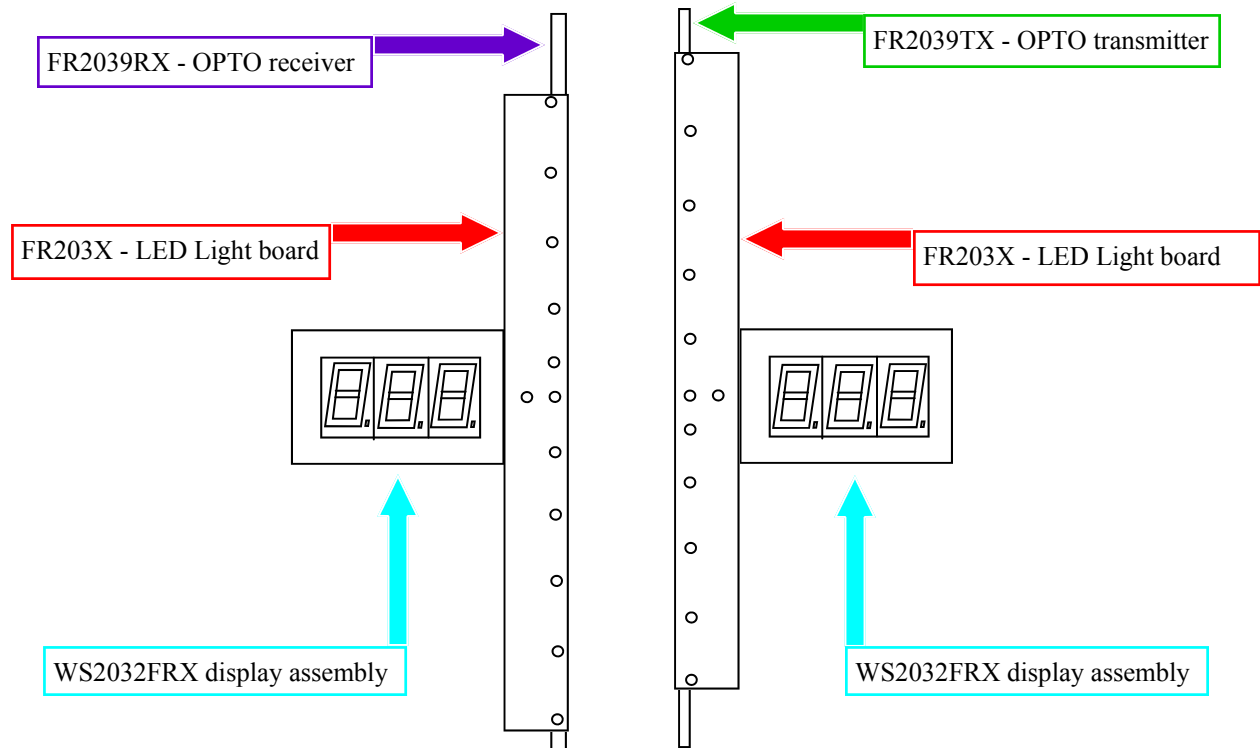
There are three different plastic layers that make up the playfield. The outer plastic has the decal. The middle plastic contains the LED strips. The inner plastic covers the entire playfield except around the sensor area. To gain access to the sensor array you only need to remove both the outer plastic and the middle plastic. Be careful when removing the middle plastic that you do not break off any of the LED strips mounted to it. To gain access to the playfield displays you will need to remove all three layers.

Screw Locations Key	
	Front Plastic
	Outer and Middle Plastics
	Inner Plastic



SERVICE

Playfield Sensor array breakdown by parts. You can also refer to the full page wiring diagrams for further information.

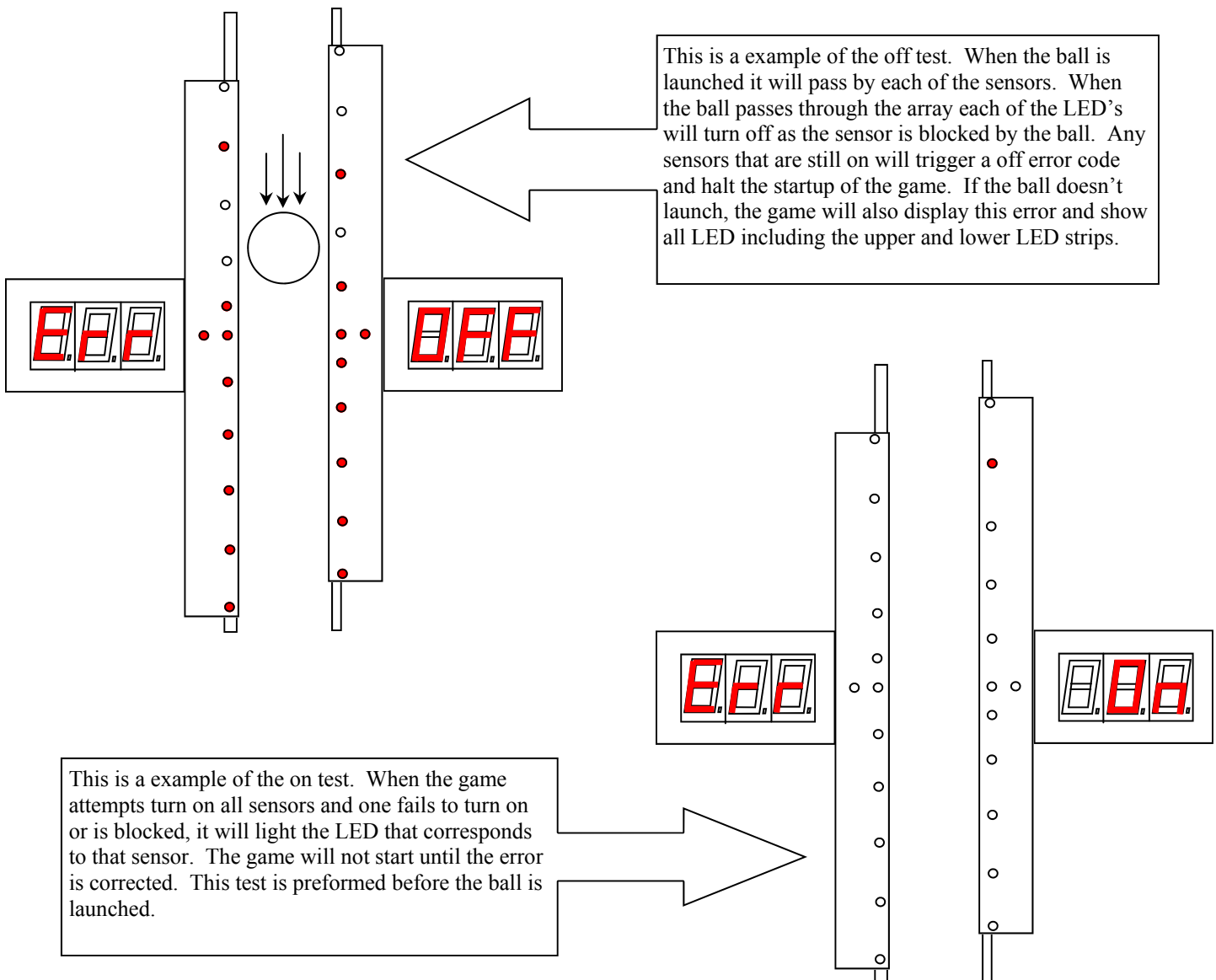


SERVICE

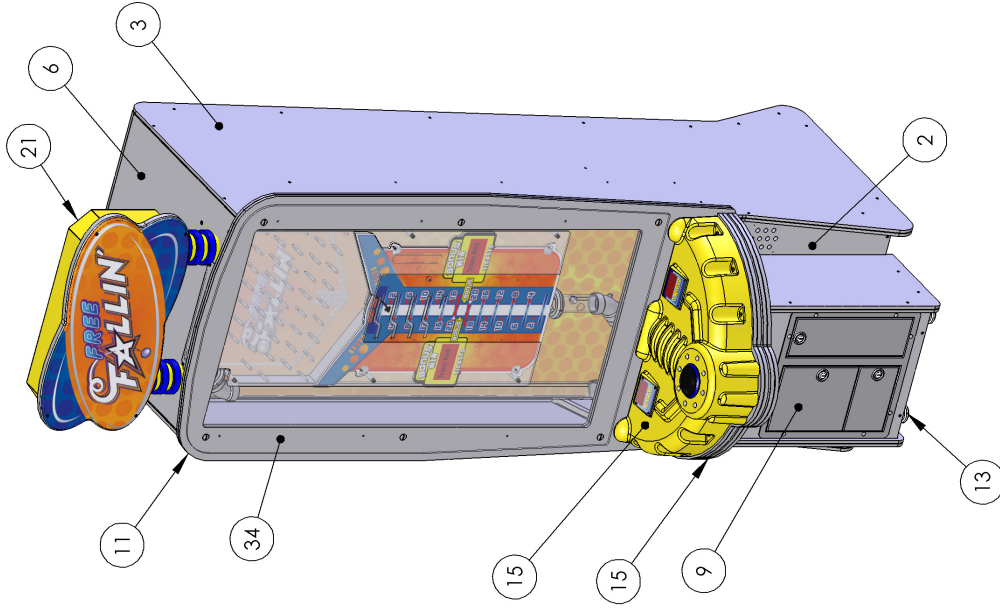
Faults and Errors:

To ensure top performance and earnings this game features a power on diagnostics. As power is applied to the game it will display the software revision number on the right display located on the play field. It will also display the required amount of coins to start a game but on the left display. Then the game will check to see if any of the score sensors and ball sensors are faulty. This is done first by turning them on. If any are blocked, the playfield will display "ERR" and "ON". The faulty sensor will have the opposite LED on or if the ball sensors are bad that LED strip will be on. After this test, the game will engage the solenoid which releases the ball and turns the blower on. Then all Sensors are turned on until the ball drops down blocking each sensor. If a sensor is bad, the LED opposite will be on. If the ball sensor is bad, the LED strip will be on. When the last sensor is blocked by the ball, the solenoid will catch the ball, then blower will stop and the game will enter game mode and accept coins. If any errors are encountered during the power on diagnostics, the game will stop at that failure until it is repaired.

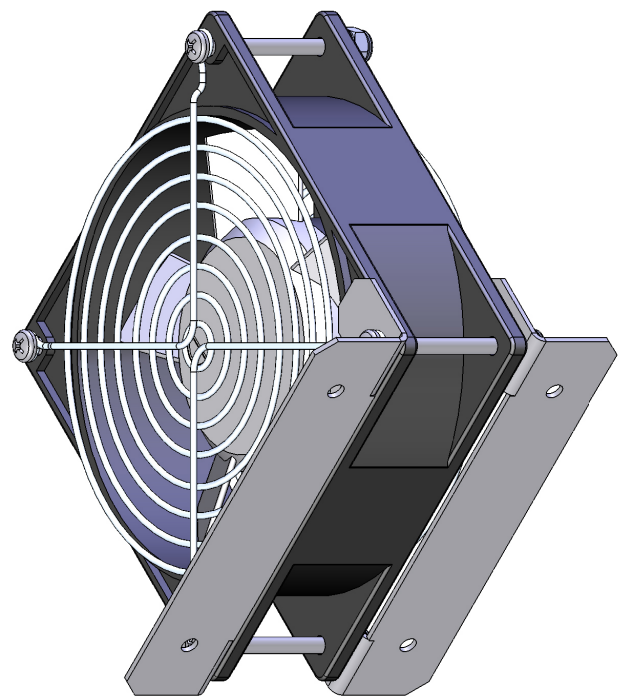
See diagrams below for examples.



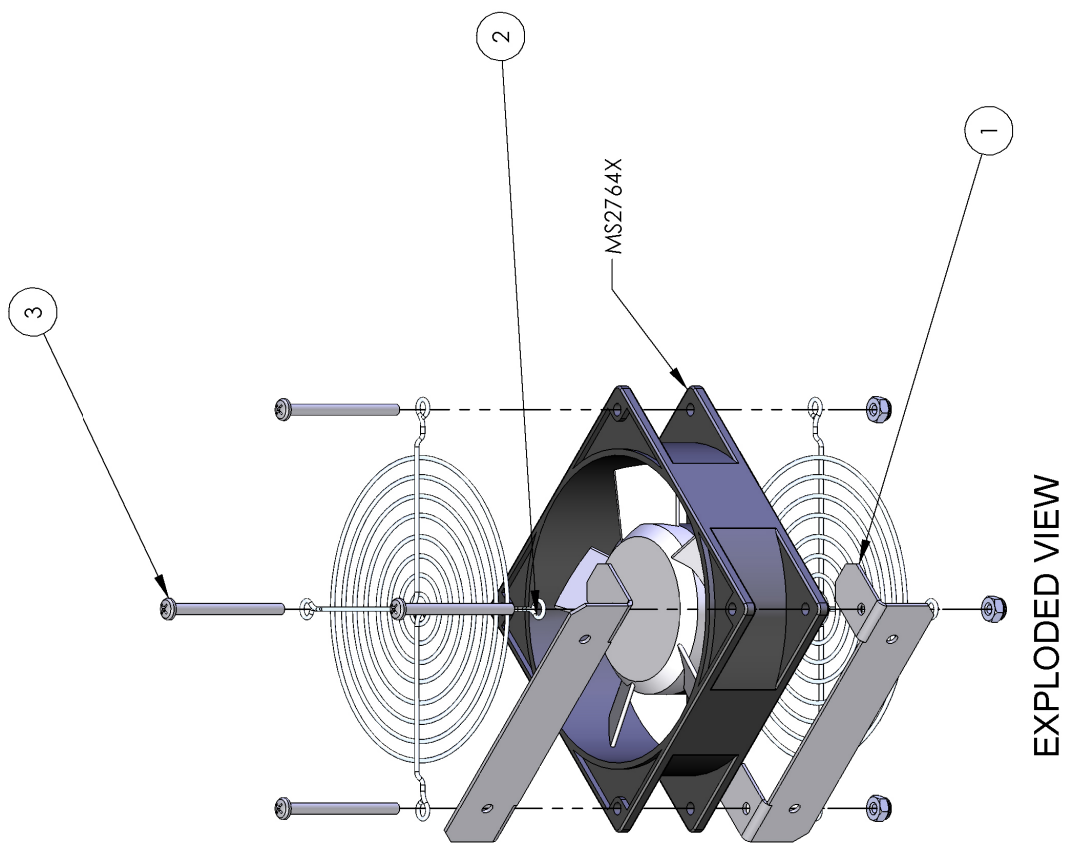
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FR3054	BOTTOM	1
2	FR3055	MAIN CABINET FRONT	1
3	FR3051	SIDE PANEL R	1
4	FR3053CX	LOWER BACK - CABINET ASSEMBLY	1
5	FR3052	UPPER BACK	1
6	FR3056	TOP	1
7	FR3060X	PODIUM BASE	1
8	FR3058	REAR ACCESS DOOR	1
9	3 DOORCOIN	3 DOOR COIN ASSBLY	1
10	FR3050	SIDE PANEL L	1
11	FR3065	UPPER FRONT	1
12	FP1004	LEG'S MOUNTING PLATE	4
13	HR1019	LEVELING LEG SHORT	4
14	655	#8 x 3/4 SQ. DRIVE (BLACK)	53
15	FR3001X	CONTROL PANEL ASSEMBLY	1
16	WA1051	LATCH V4-0006-02	4
17	FP2007	SPEAKER (4" ROUND) 60-9240	2
18	6045	CARRIAGE BOLT 10-24x0.75x0.75-N	8
19	6020	#10 FLAT WASHER USS (#12 SAE)	8
20	6040	10-24 KEP NUT	8
21	FR3027X	MARQUEE ASSEMBLY	1
22	DN1042	CONTROL PANEL LATCH PLATE	4
23	PC60624	#8 x 2 PARTICAL BOARD SCREW(4000)	39
24	6166	#6 DRYWALL SCREW 1-1/2"	4
25	SX2007X	ASY (POWER MODULE)	1
26	SX1026	Speaker Grill	2
27	6061	8-32 CAB INSERT (J-50111)	6
28	FR3070	MOTOR BOX FRONT	2
29	PC60631	025-20 CABINET INSERT (J50115)	8
30	FR3093	PLAYFIELD MOUNTING CLEAT	2
31	FR3094	PLAYFIELD SHELF CLEAT	2
32	6211	1/4-20 x 1-1/4" LG. BSHCS	6
33	FR3068_1X	PLAYFIELD ASSEMBLY	1
34	FR3002	FRONT GLASS	1
35	PZ1050		6
36	FR3032	MARQUEE HARDWARE COVER L	1
37	6272	BHCS #8-32 x 1.25" LG. (BLACK OXIDE)	6
38	6053	1/4 SPLIT LOCKWASHER	6
39	90015A414		6
40	FR1014X	LIGHT BRACKET ASSEMBLY	1
41	FR3020	SIDE MIRROR	1
42	FR3095	DOOR CLEAT	2
43	FR3096	BOTTOM DOOR CLEAT	2
44	FR3033	MARQUEE HARDWARE COVER R	1
45	FR3026	PLAYFIELD CROWN	1
46	FR3043	FRONT RING R	1
47	FR3073X	BLOWER MOUNT ASSEMBLY	1



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FR1012	FAN SUPPORT	2
2	E02027G	FAN FINGER GUARD	2
3	6078	8-32 X 2 PHMS	4
4	6072	8-32 NYLOCK NUT	4

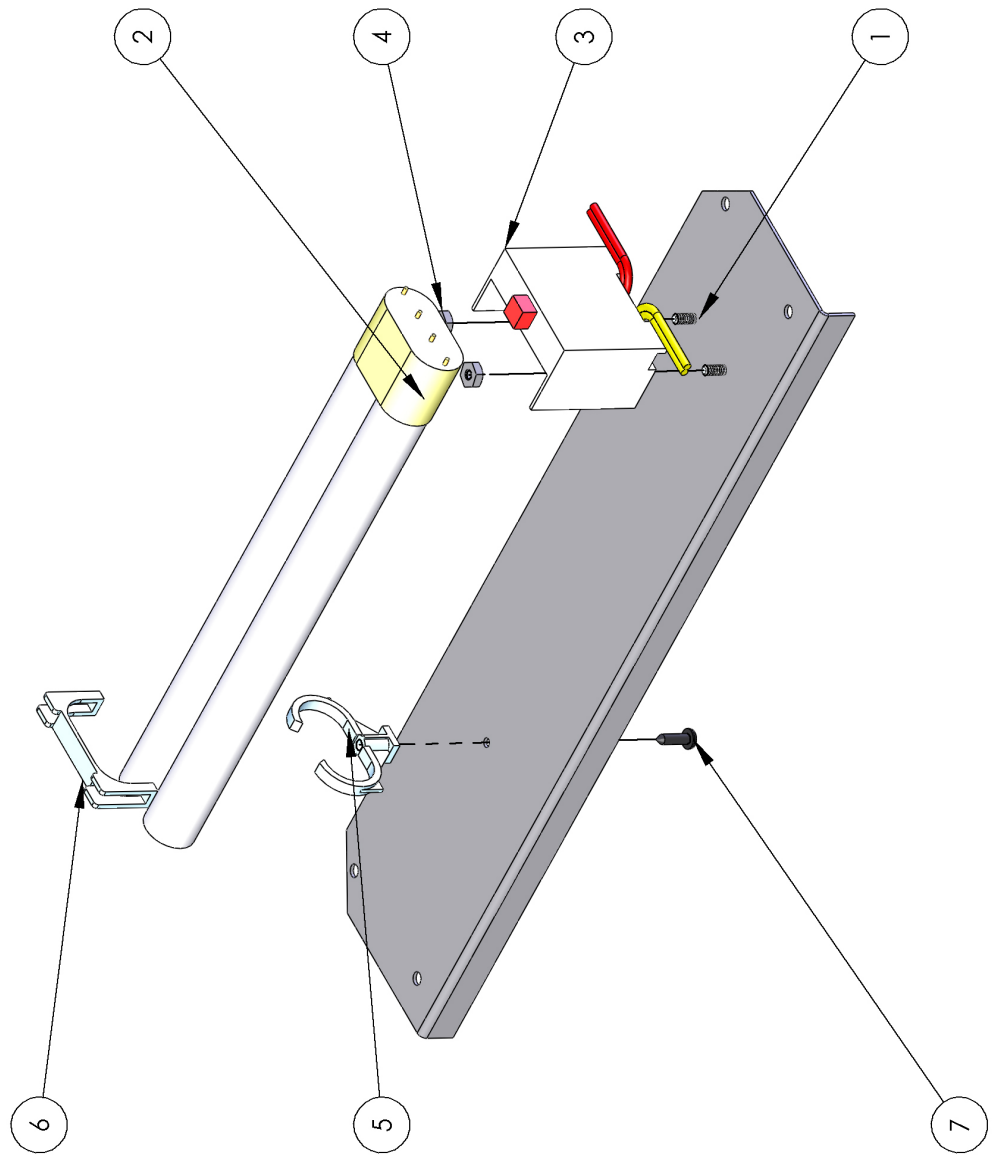


ASSEMBLED VIEW

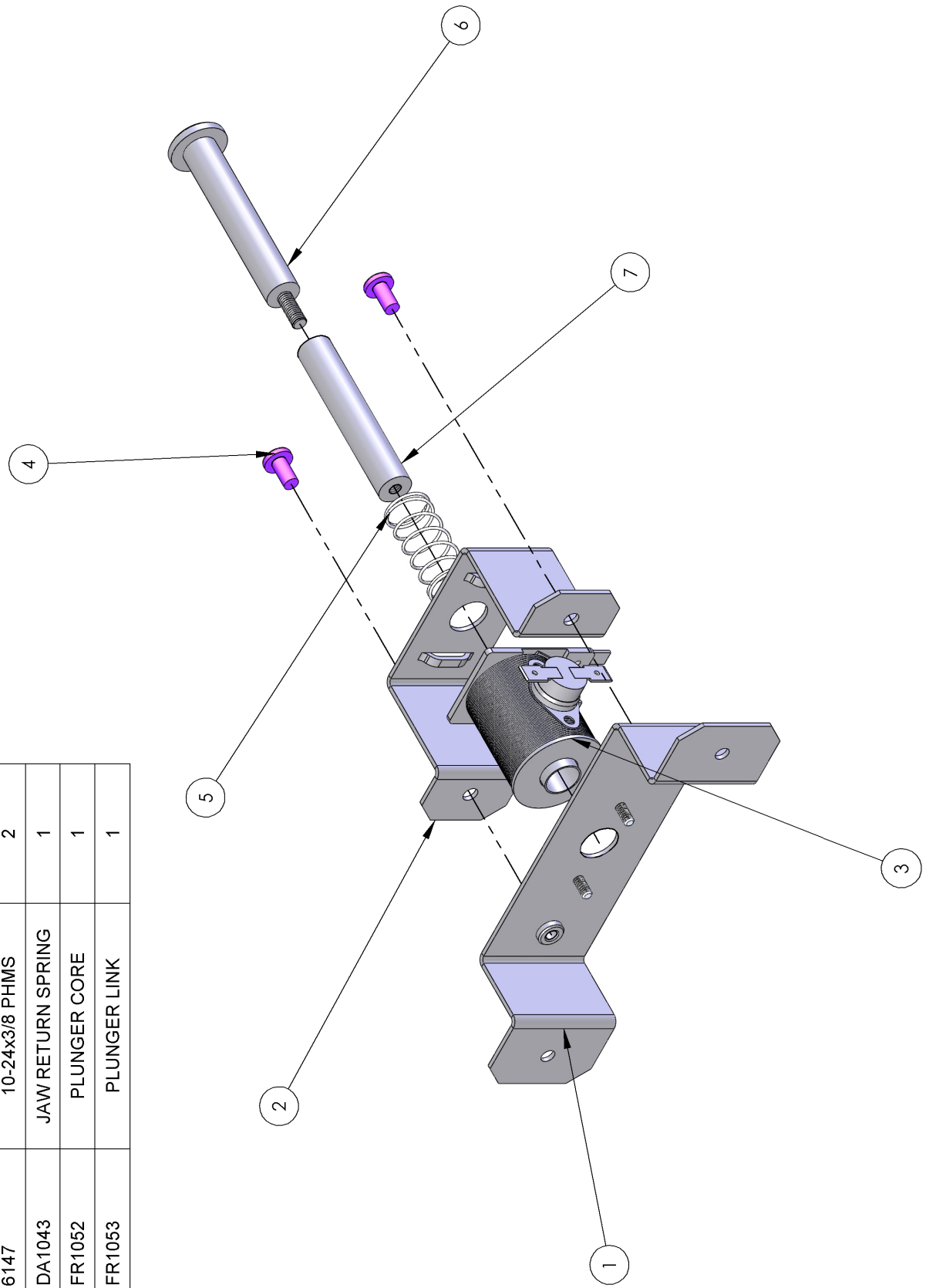


EXPLODED VIEW

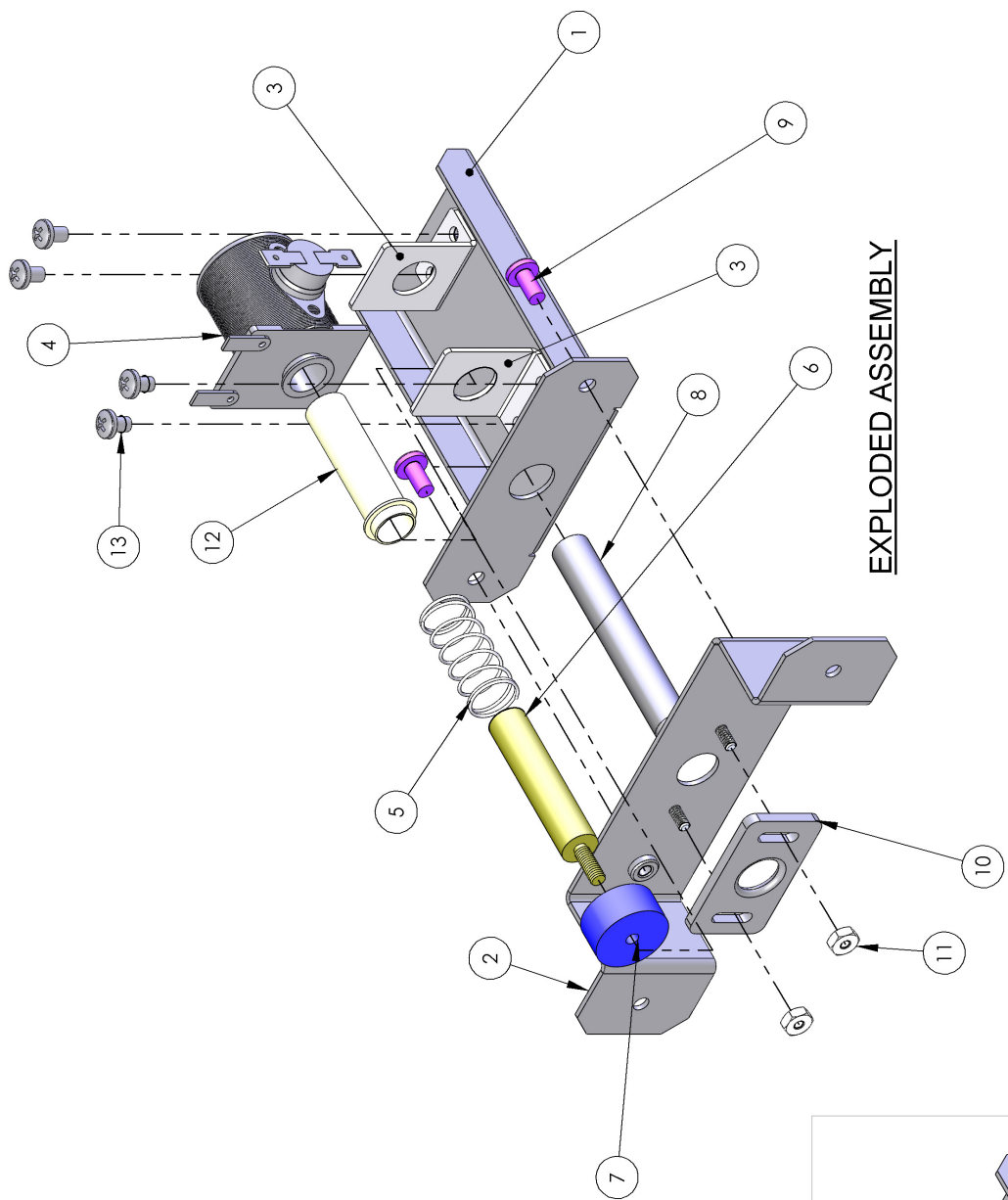
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FR1014	LIGHT BRACKET	1
2	8453 BULB	BULB PL-L 18W/830/4P FLOUR.	1
3	PP250X	LIGHT SOCKET ASSEMBLY	1
4	6097	#6-32 HEX NUT	2
5	BW2018	BULB PLASTIC SUPPORT (1320-13)	1
6	BW2017	BULB PLASTIC CLIP (1320-10)	1
7	AN71	#6 x 1/2" LG SELF-TAP (BLACK)	1



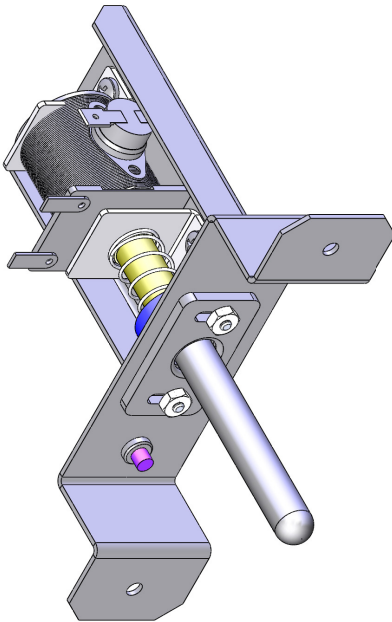
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FR1018	COIL OFFSET BRACKET	1
2	FR1019	COIL RETAINING BRACKET	1
3	WK2009X	ASY (SOLENOID)	1
4	6147	10-24x3/8 PHMS	2
5	DA1043	JAW RETURN SPRING	1
6	FR1052	PLUNGER CORE	1
7	FR1053	PLUNGER LINK	1



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FR1032	LOWER COIL BRACKET	1
2	FR1018	COIL OFFSET BRACKET	1
3	DA1032	COIL RETAINER BRKT	2
4	FR2009X	ASY (SOLENOID)	1
5	DA1043	JAW RETURN SPRING	1
6	DA1052	JAW COIL PLUNGER	1
7	DA3005	PLUNGER SPRING RETAINER	1
8	DA3015	JAW PLUNGER LINK	1
9	6147	10-24x3/8 PHMS	2
10	DA3003	JAW PLUNGER GUIDE	1
11	6002A	6-32 NYLOCK NUT	2
12	DA2020S	COIL SLEEVE	1
13	6005	#8-32 x 1/4" LG PHMS	4

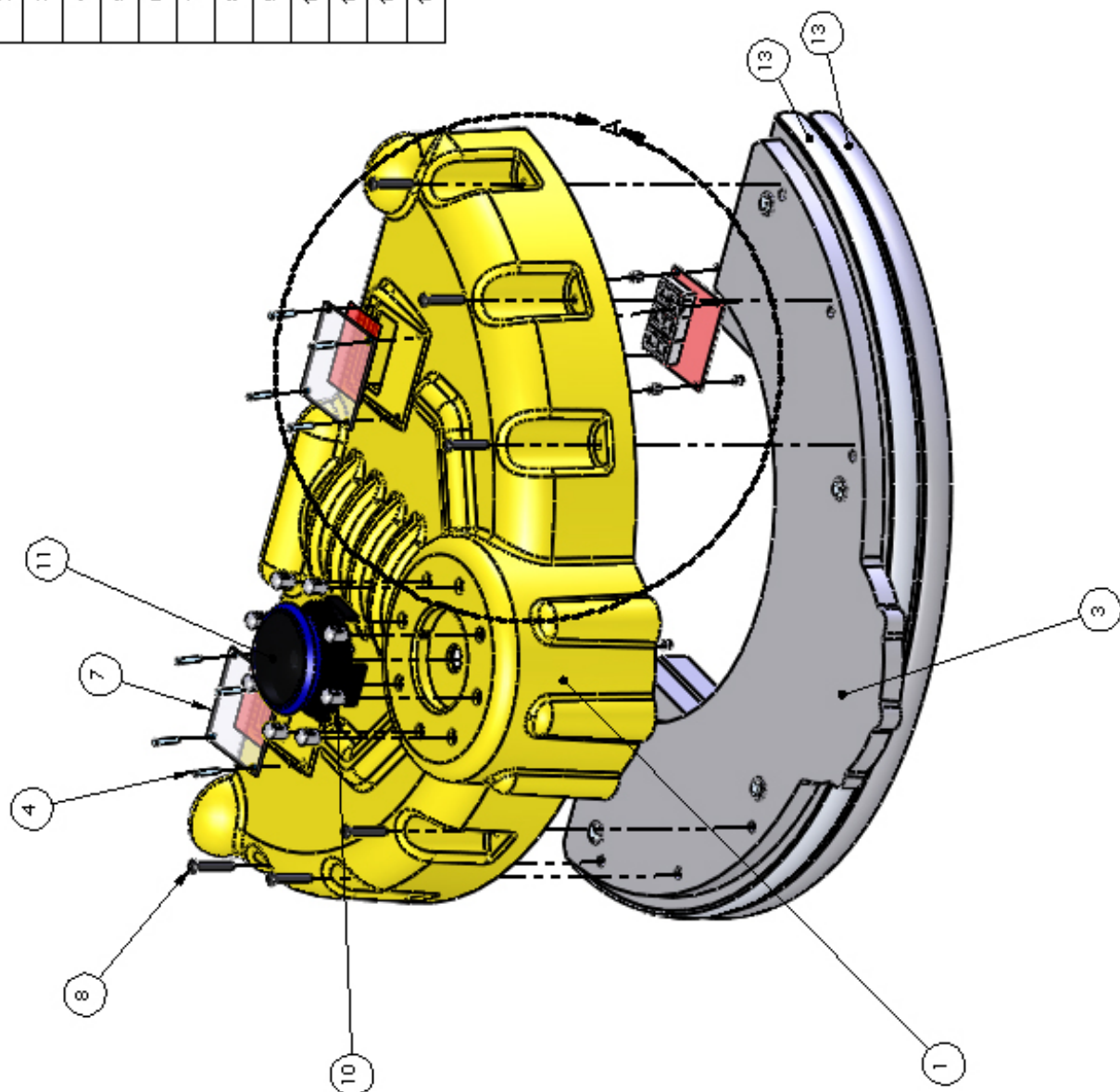


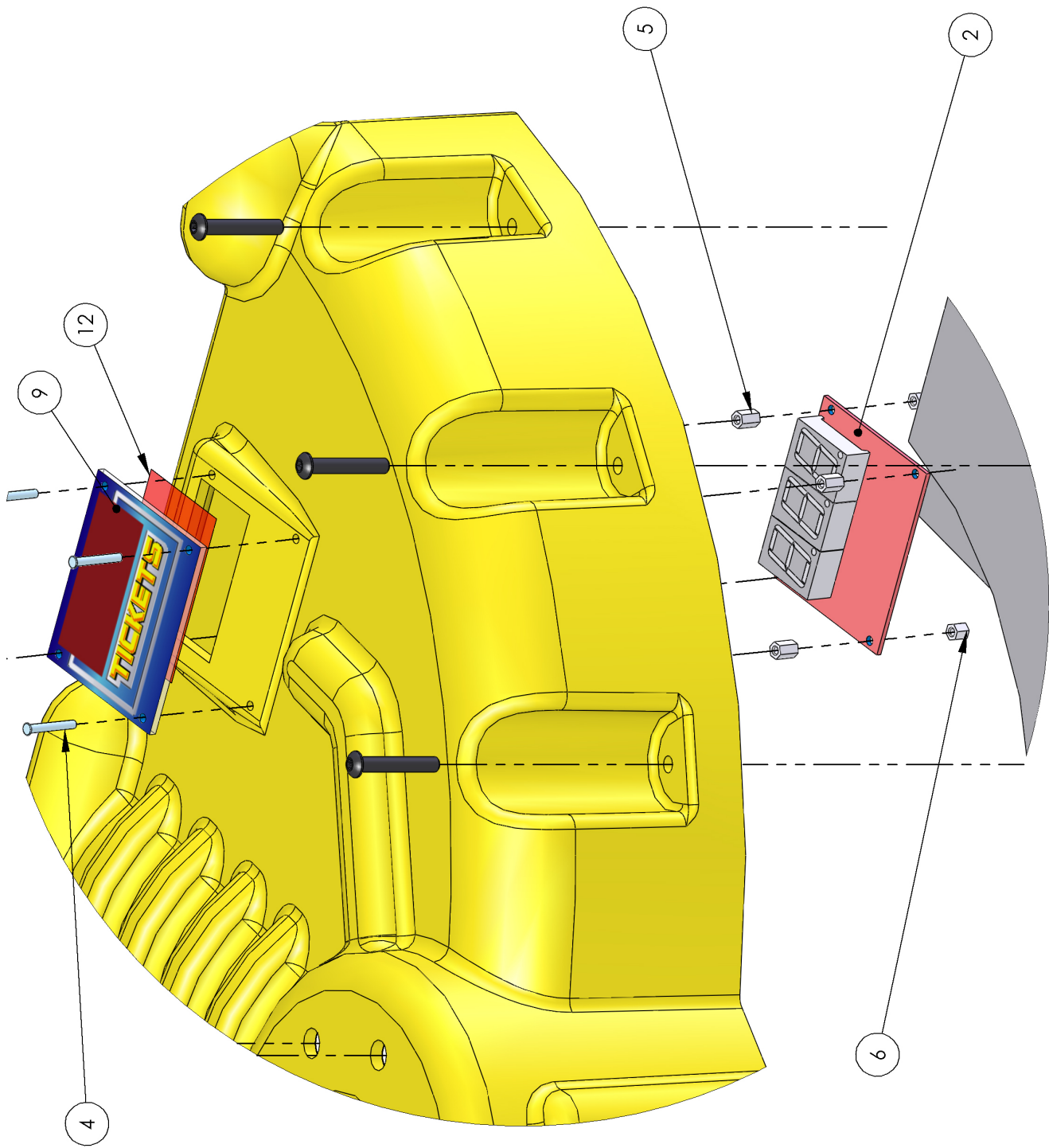
EXPLODED ASSEMBLY



COMPLETED ASSEMBLY

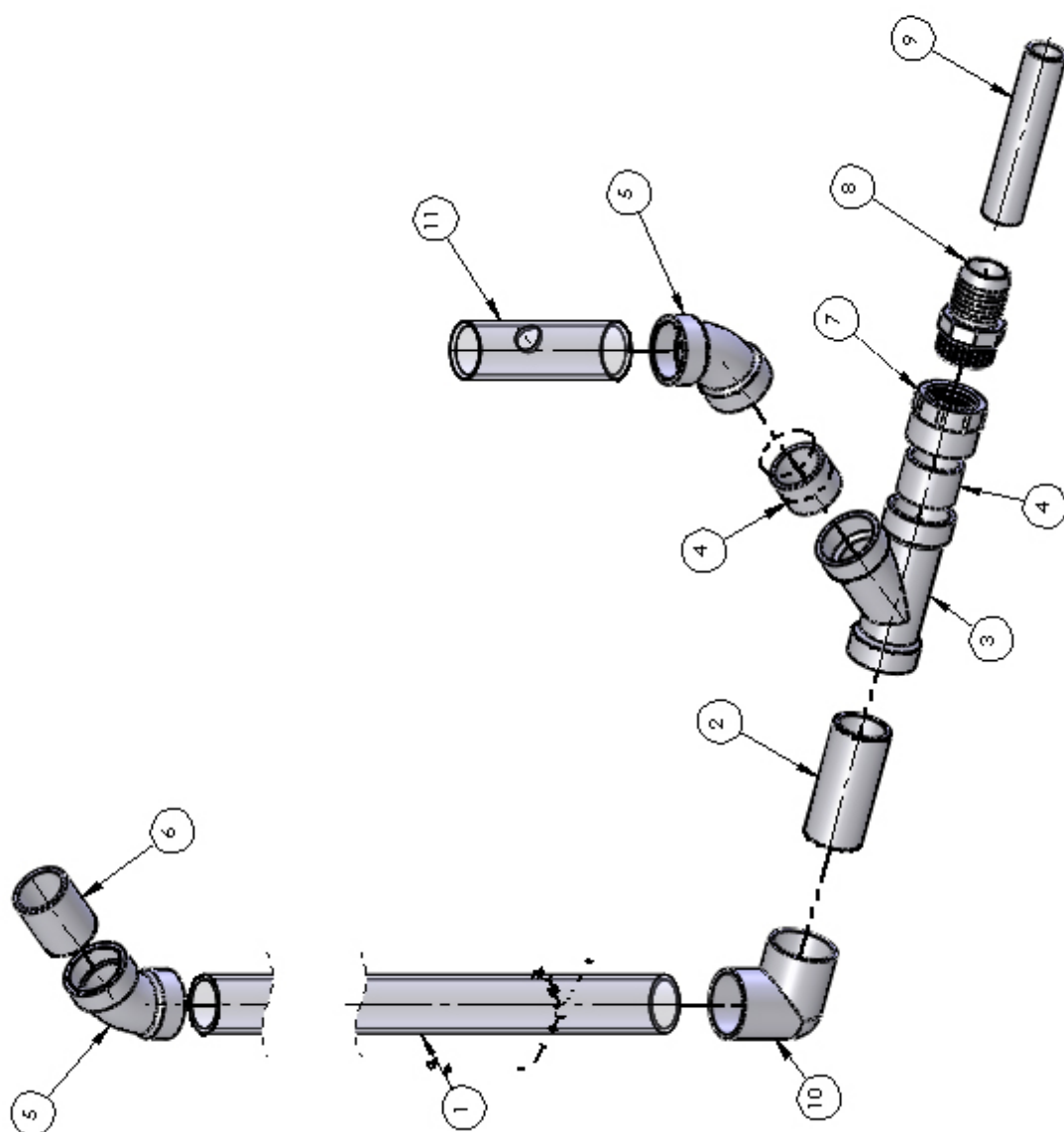
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1	FR3001	CONTROL PANEL	1
2	CB2232X	PCBA (DISPLAY)	2
3	FR3066X	CONTROL PANEL SHELF ASSEMBLY	1
4	6419	6-32 x 1 PEM STUD (FH-632-16ZI)	8
5	PC60642	6-32 x 3/8 HH SPACER 14HTSP007	8
6	PC60643	6-32 x 1/4 HH SPACER	8
7	FR7004	DECAL - "CREDITS"	1
8	6213	1/4-20 x 1-1/2" LG. BSHCS (BLACK, SEC.)	6
9	FR7005	DECAL - "TICKETS"	1
10	E00440FRX	ASY (RED JEWEL LIGHTS)	8
11	MZ2005	LARGE ROUND BUTTON WITH LIGHT ASY	1
12	FR3004	PCB MASK	2
13	220	T MOLDING (1.0" CHROME) x 47.50" LG	2



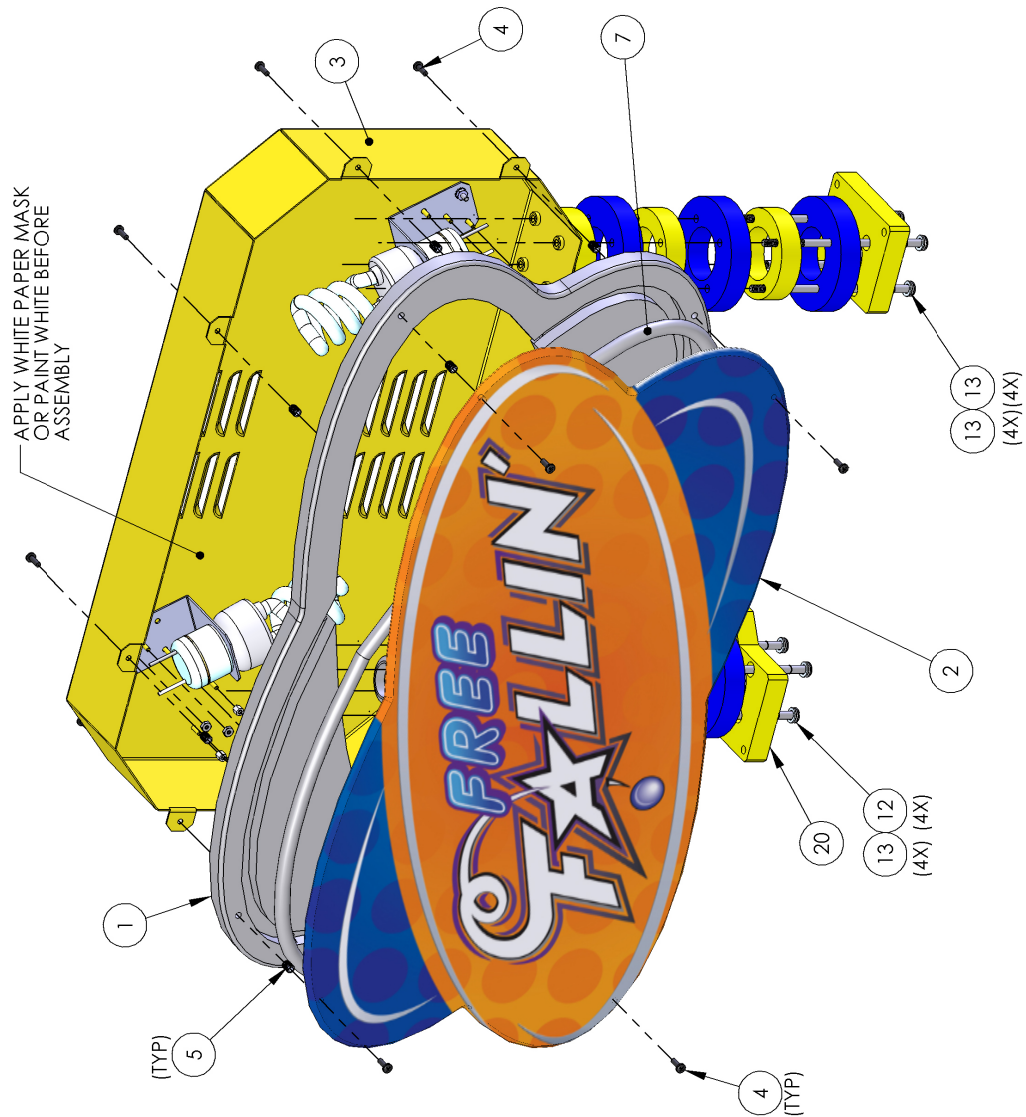


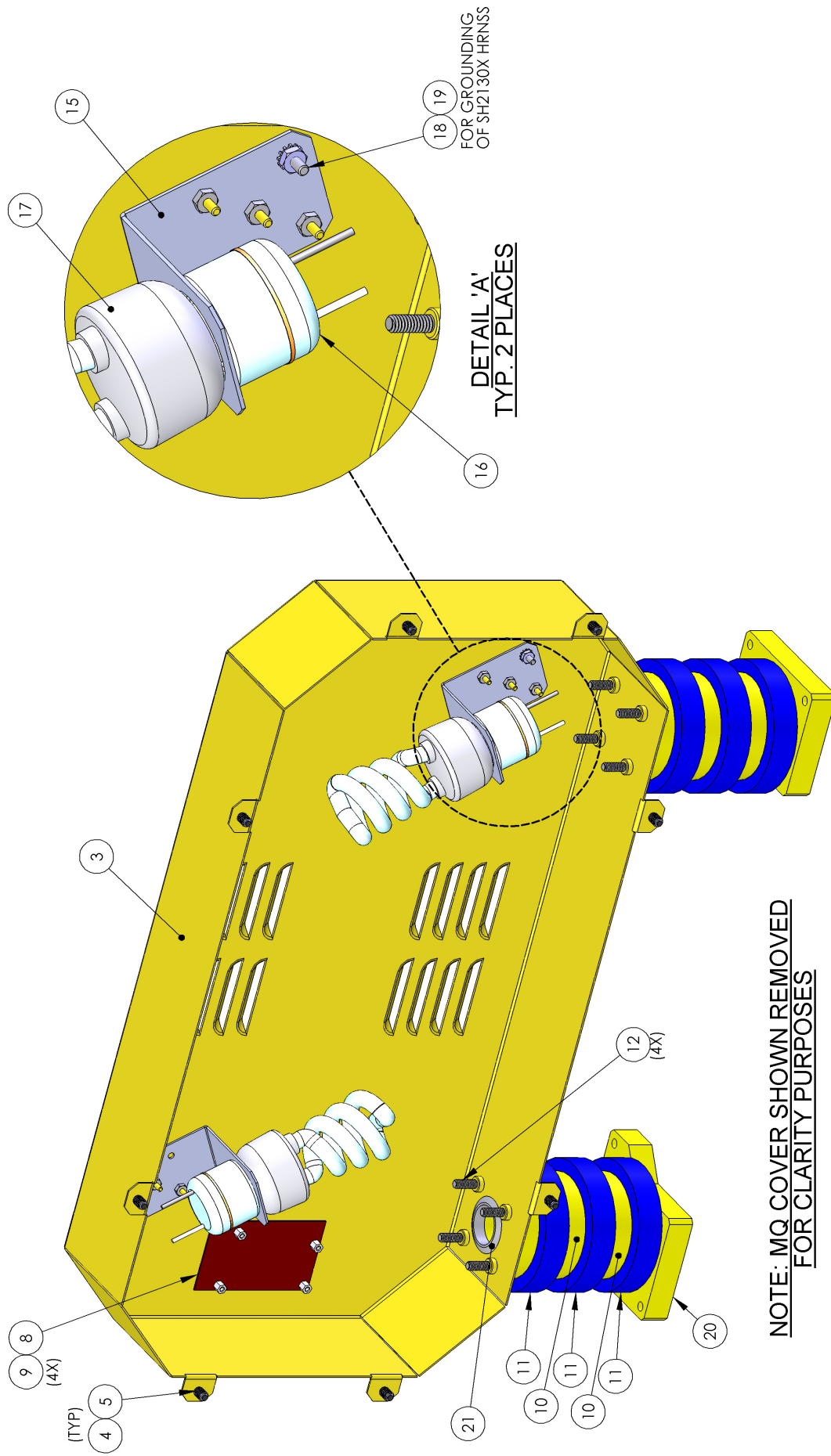
DETAIL A
SCALE 1:3

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FR3013	1-1/2" CLEAR PVC PIPE x 46.625" LG.	1
2	FR3011	1-1/2" CLEAR PVC PIPE x 3.98" LG.	1
3	FR3018	1-1/2" x 45 DEG WYE CONNECTOR	1
4	FR3010	1-1/2" SCH 40 PVC PIPE x 1.30" LG	2
5	FR3016	1-1/2" x 45 DEGREE ELBOW	2
6	FR3012	1-1/2" CLEAR PVC PIPE X 2.19" LG.	1
7	FR3023	1-1/2" FEMALE COUPLER	1
8	FR3022	1-1/2" MALE NIPPLE	1
9	FR3028	1" SCH 40 PVC x 7.00" LG	1
10	FR3014	1-1/2" 90 DEG. ELBOW (SXS)	1
11	FR3034	RETURN PIPE	1

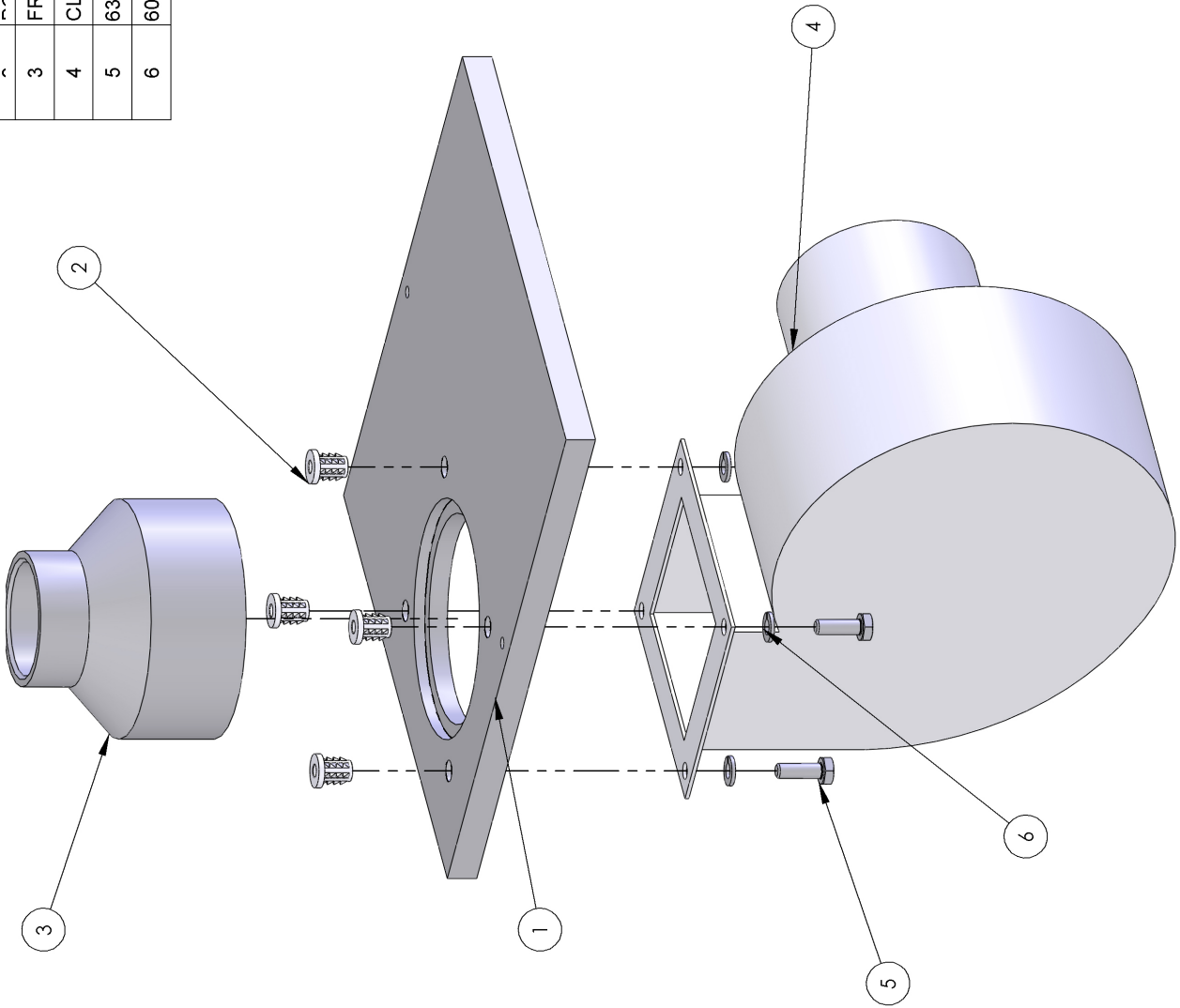


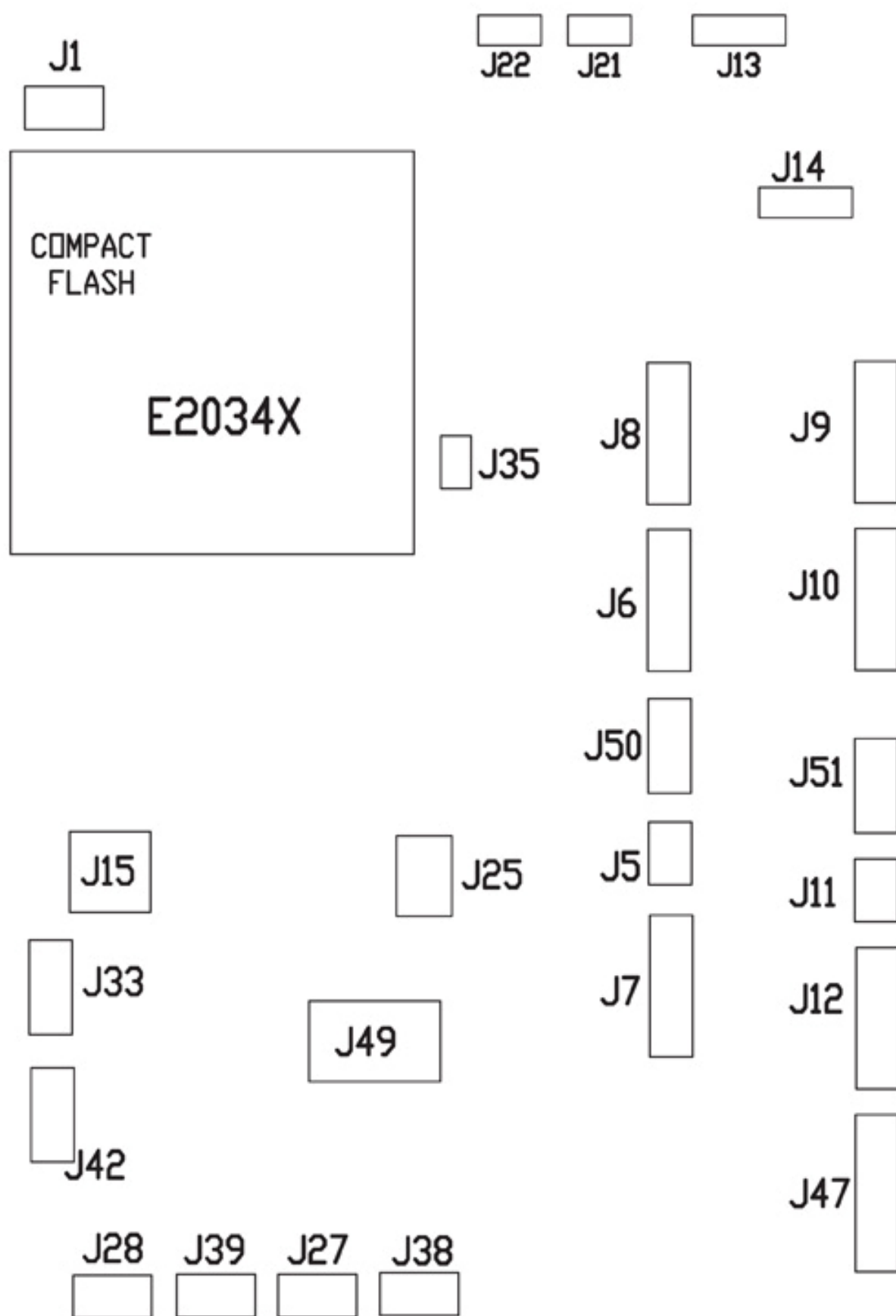
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FR3015	MARQUEE COVER	1
2	FR7027	MARQUEE COVER GLASS	1
3	FR1027	MARQUEE	1
4	6004	8-32 x 1/2 PRHMS (BLACK)	12
5	6493	8-32 X 25/64 THREADED INSERT	12
6	6407	8-32 x 1/2" FLAT SET SCREW	2
7	2133CO	LIGHT (ROPE) ORANGE CHASING 110v	1
8	2033X	ROPELIGHT CONTROLLER BOARD	1
9	PC60643	6-32 x 1/4 HH SPACER	8
10	fr3031	BOTTOM LEG RING	6
11	FR3030	TOP LEG RING	6
12	6705	1/4-20 X 6" PHMS	8
13	6053	1/4" LOCK WASHER	8
14	6097	#6-32 HEX NUT	6
15	TG1021	LIGHT BRACKET	2
16	SH2130X	ASY (2D BULB SOCKET)	2
17	E00382	BULB CF 27W (PHILIPS #EL/MDT27W	2
18	6278	8-32 x 1/2 PEM STUD	2
19	6004a	8-32 KEP NUT	2
20	FR3038	MARQUEE LEG SUPPORT	2
21	3078	1.25 GROMMET (CAPPLUGS #GRO-1-1.25-UL)	1





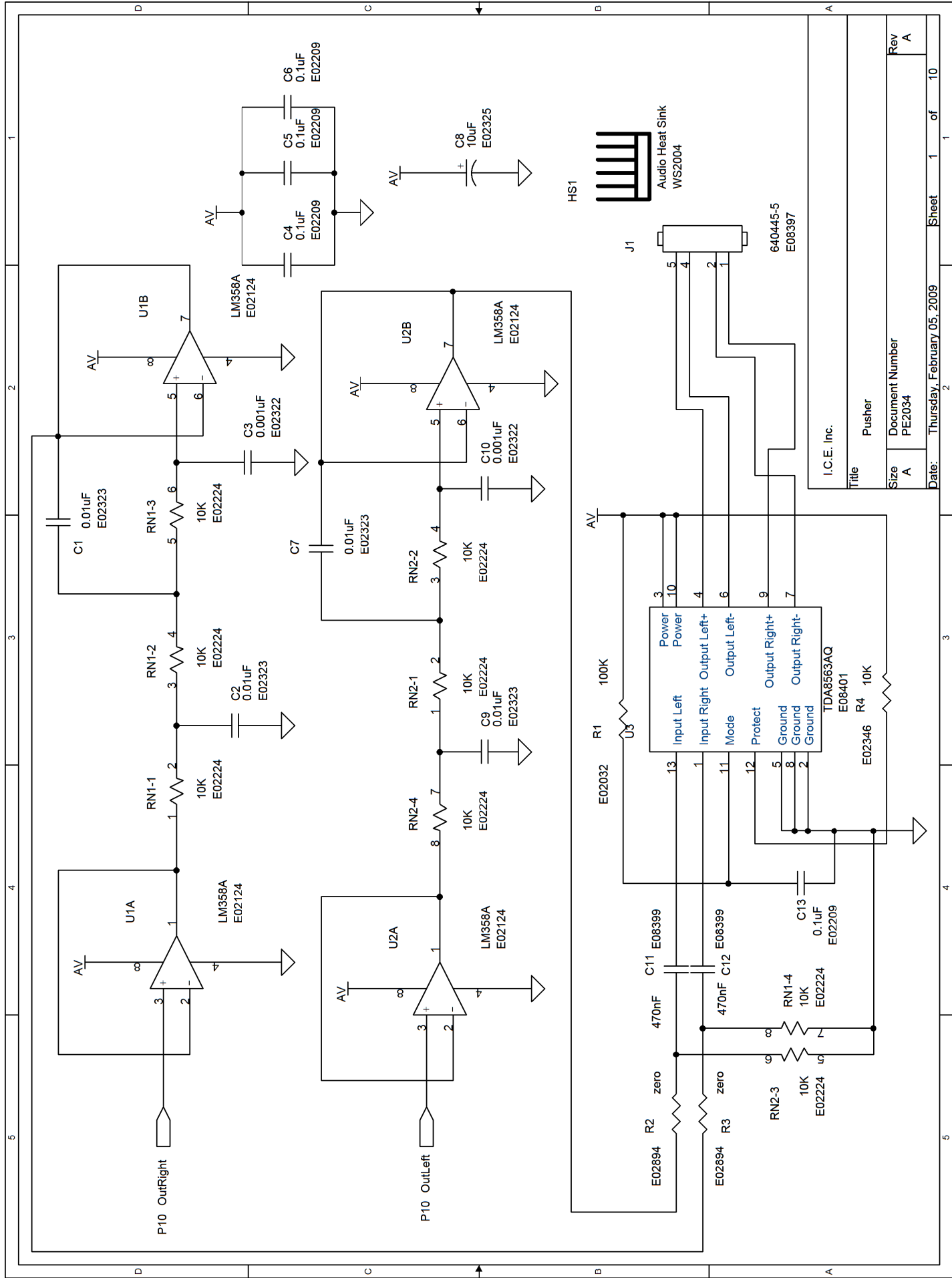
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FR3073	MOTOR BOX TOP	1
2	FR3074	3 x 1-1/2" REDUCER COUPLING	1
3	FR3140	3 x 1-1/2" REDUCER COUPLING	1
4	CL2364X	BLOWER	1
5	6386	1/4-20 x 3/4" LG. (ZINC)	4
6	6053	1/4 SPLIT LOCKWASHER	4

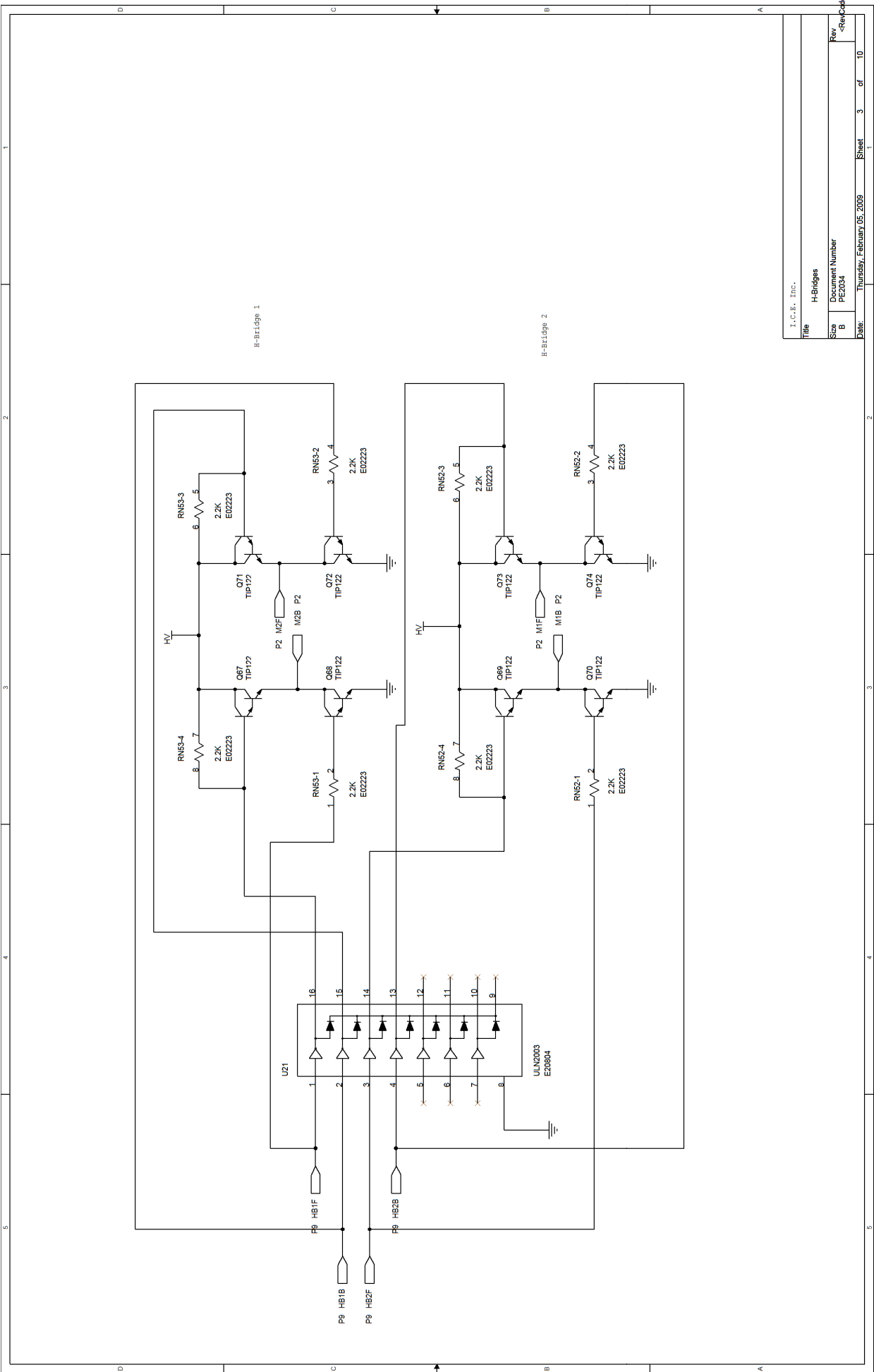




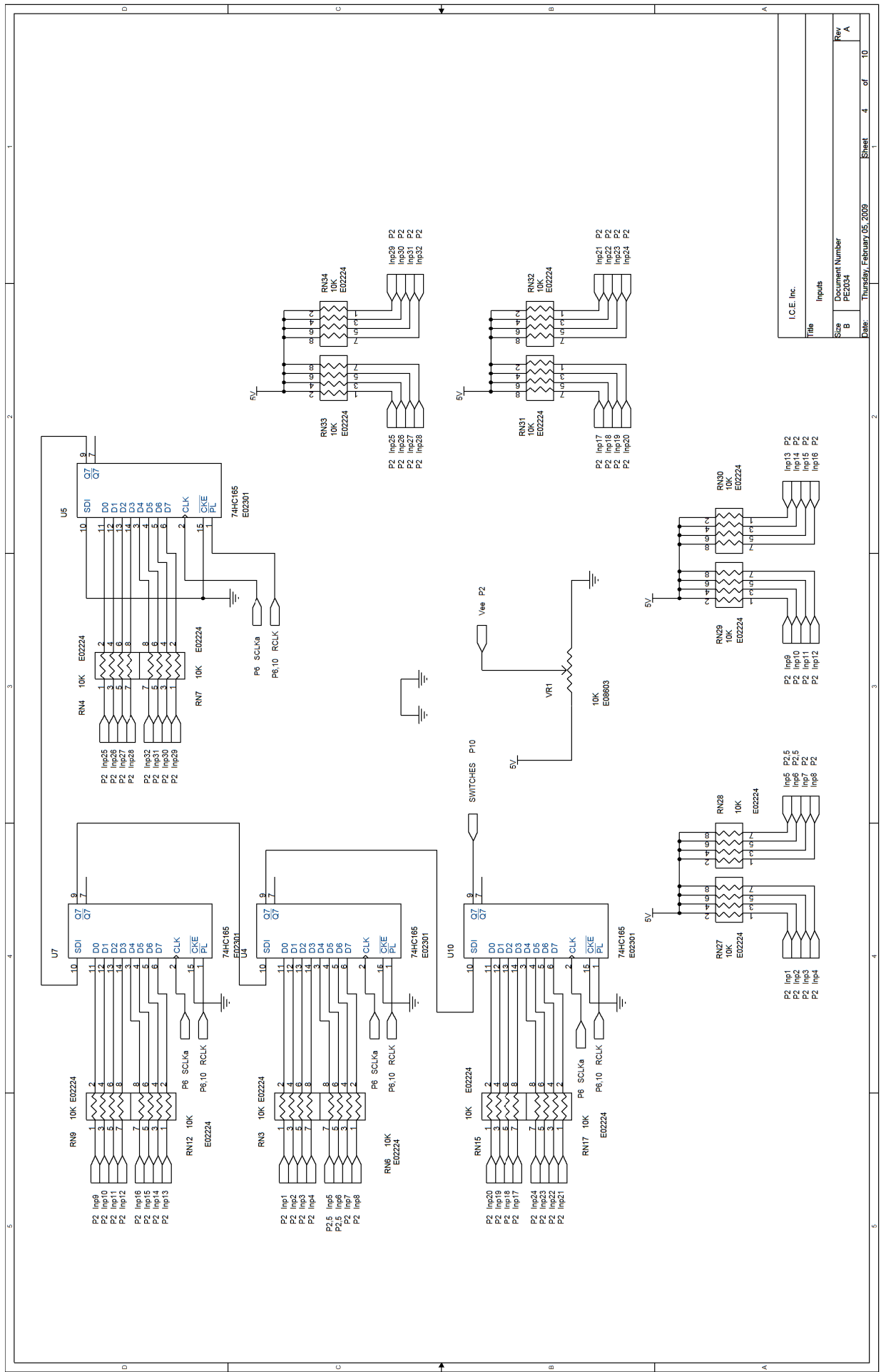
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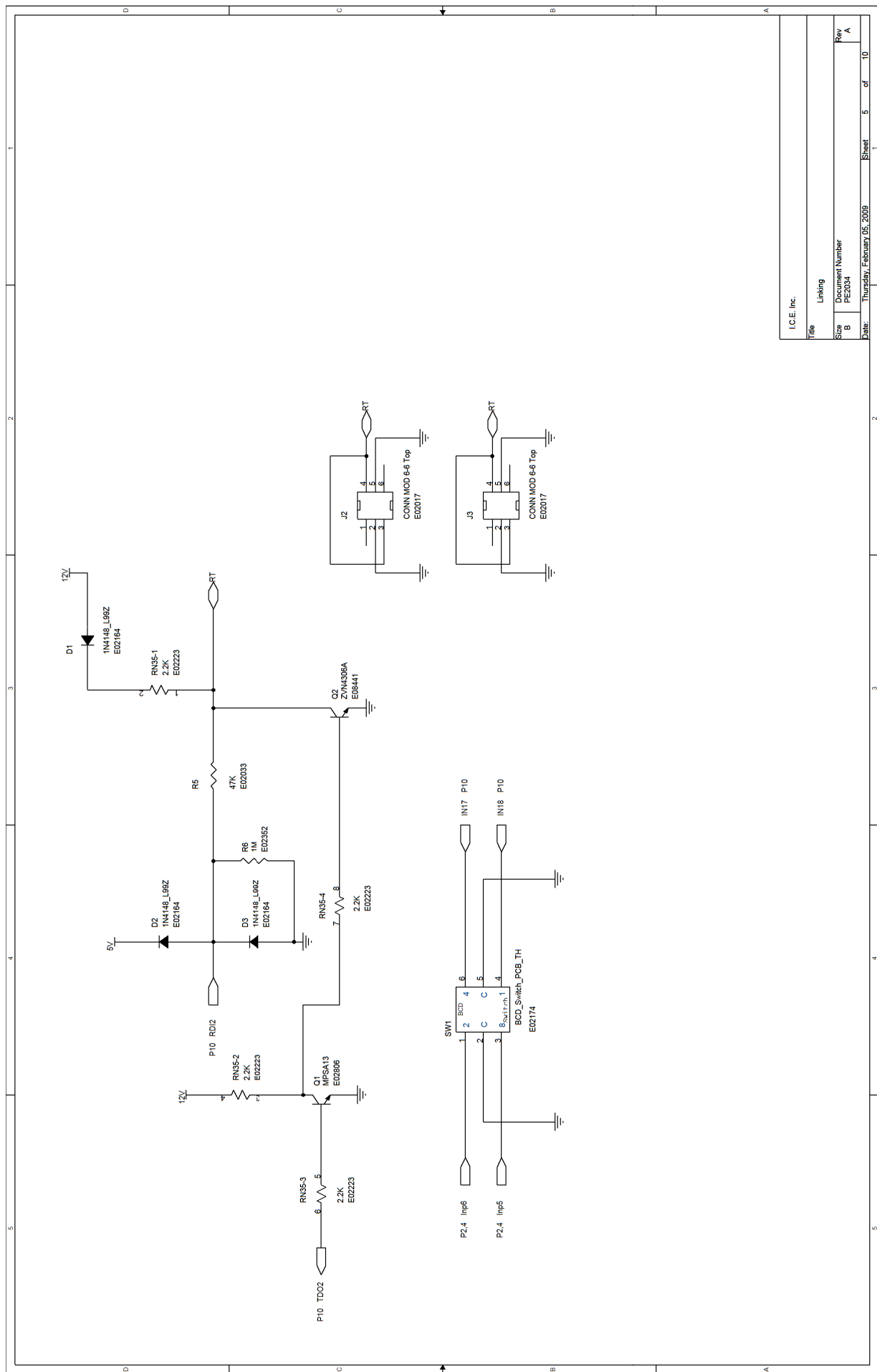




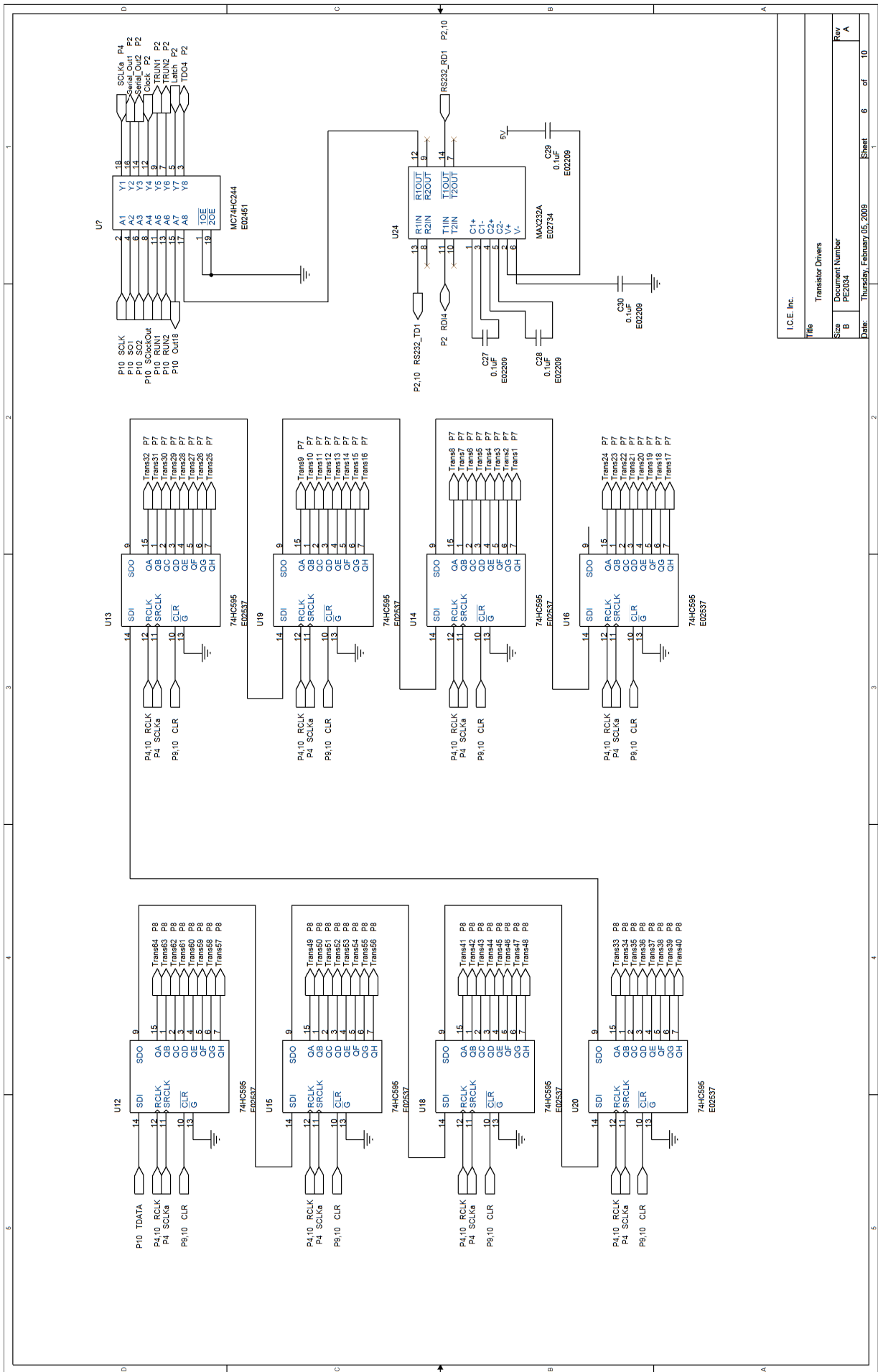
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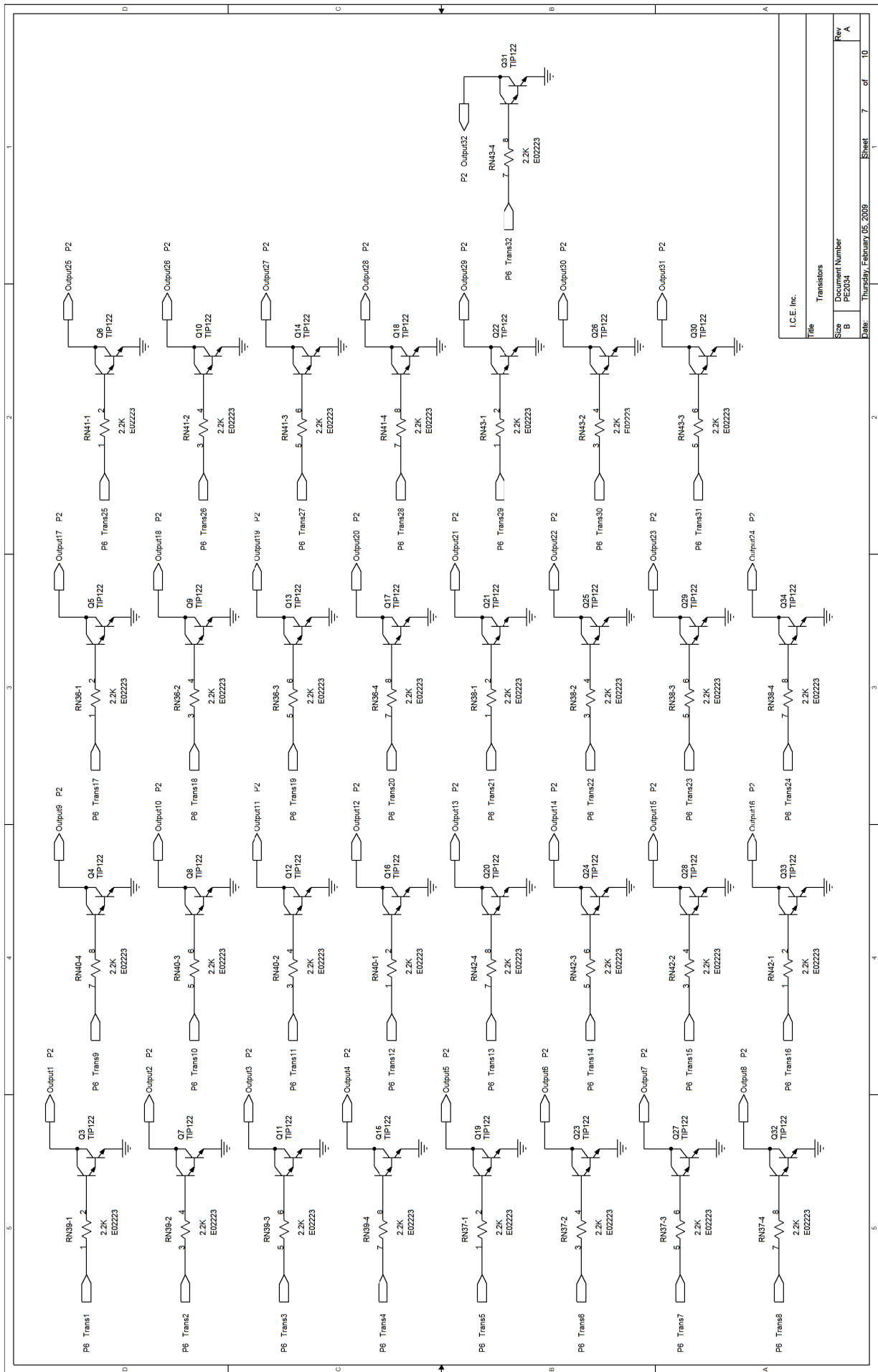


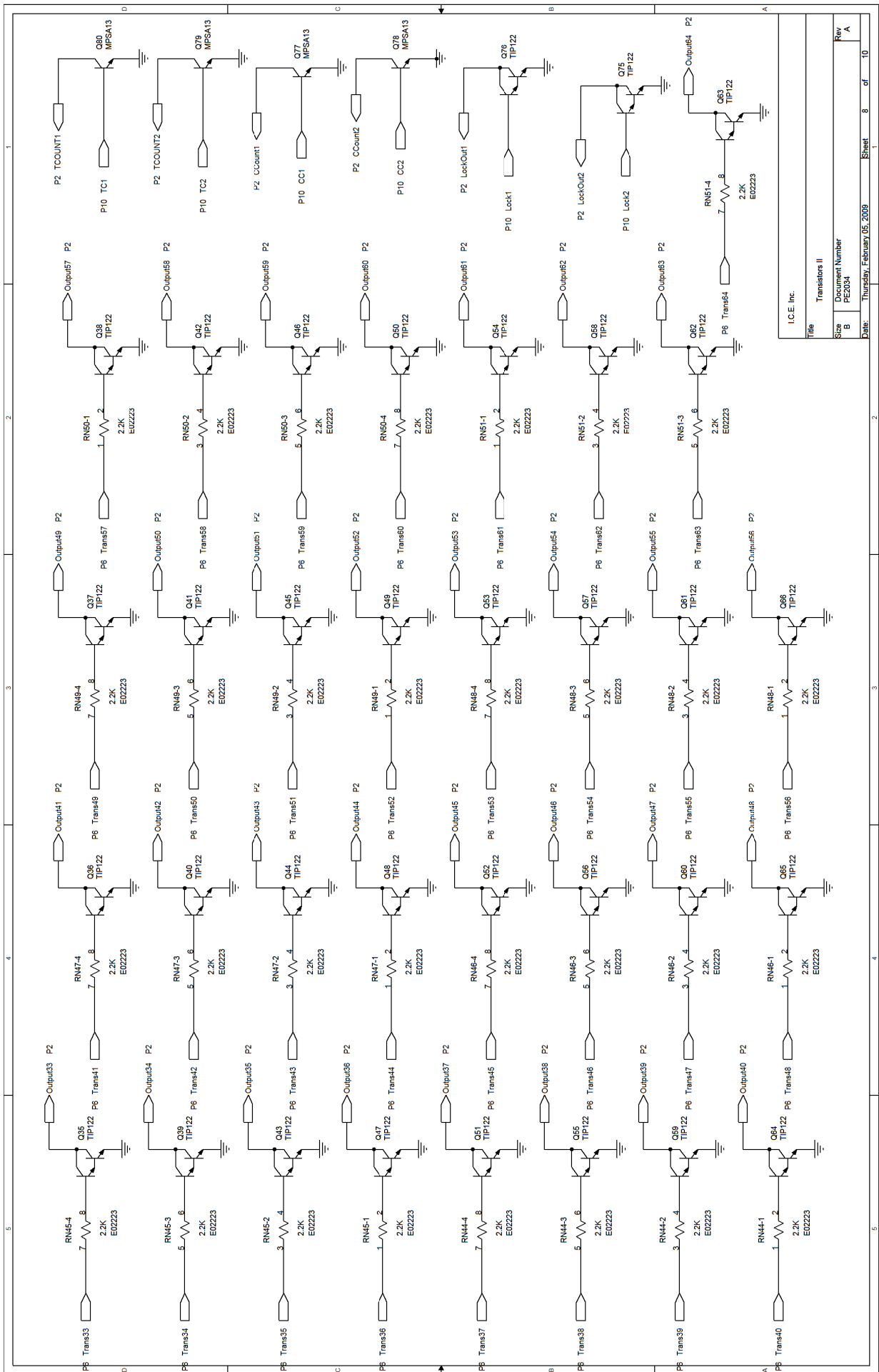
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Sheet	4 of 10
Rev	A



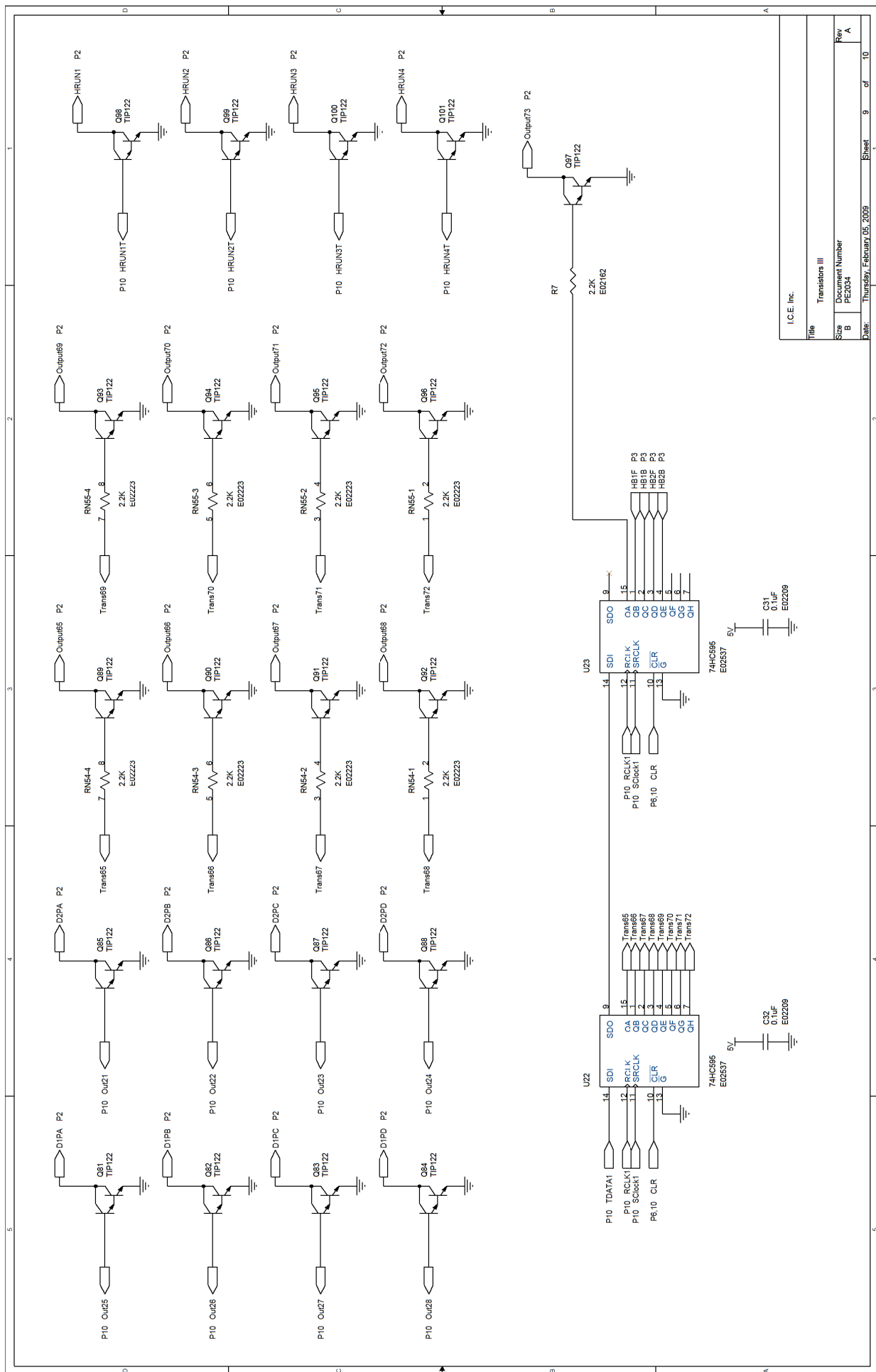
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Rev	A



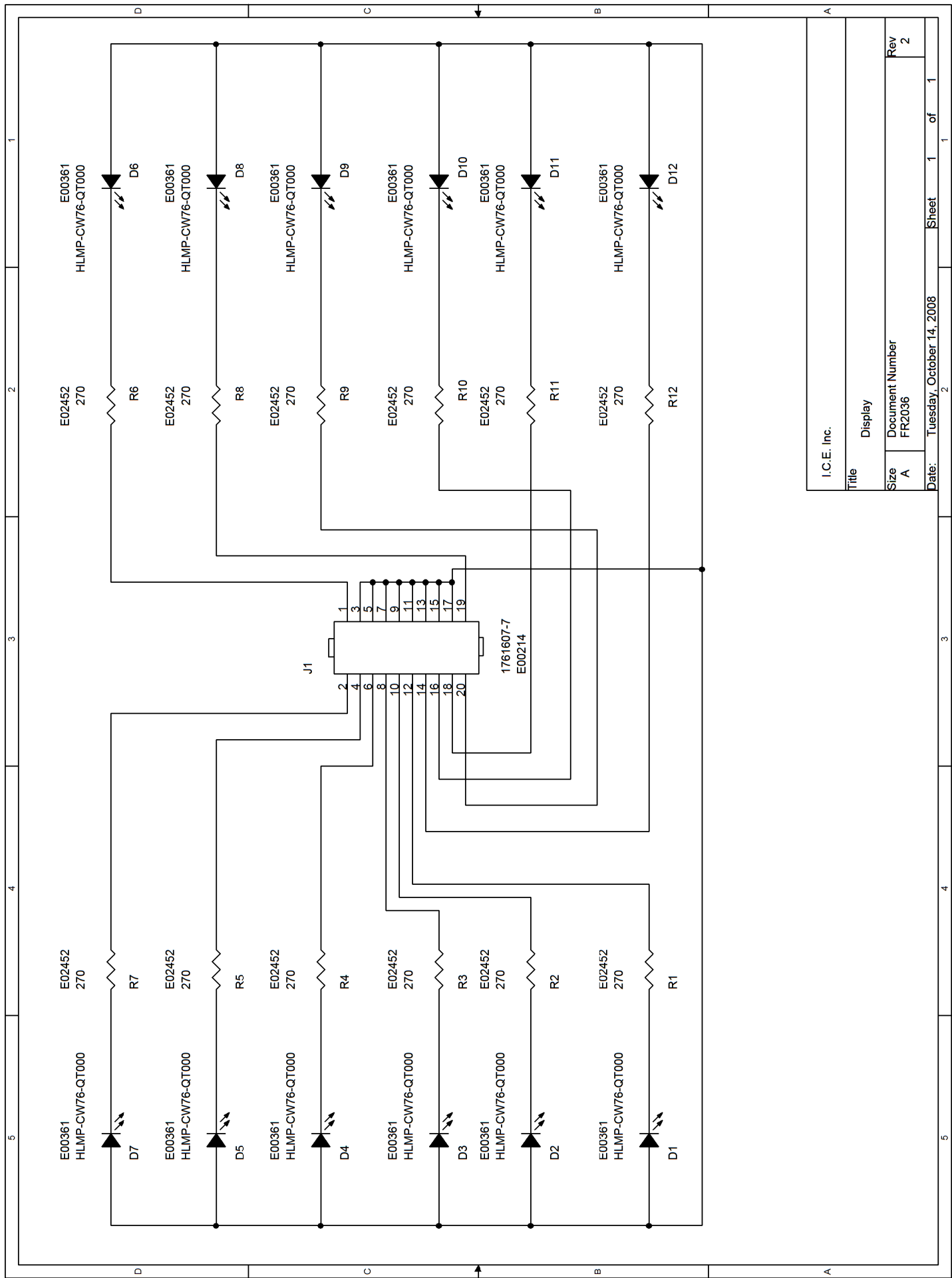




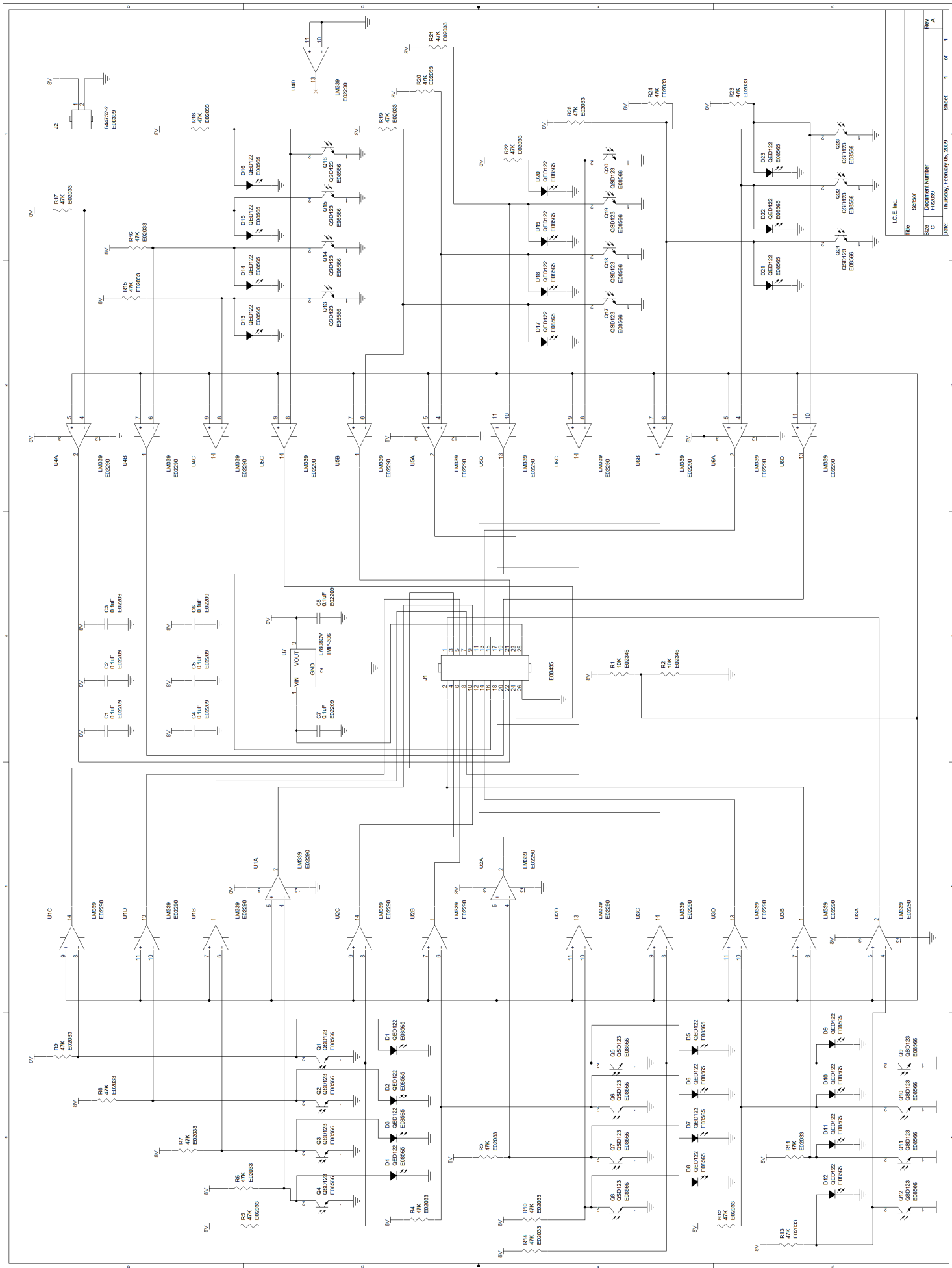
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Rev	A



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Transistors III			
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I.C.E. Inc.	
Title	Display
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A	FR2036
Date:	Tuesday, October 14, 2008
Sheet	1 of 1
Rev	2



LC E. Inc.	Senior	Document Number	1	of	1
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PARTS LISTINGS

Misc. Parts

FR3001	Control Panel
FR3002	Front Glass
FR3024	Ball
HH1022	Ticket Bin
HH5005	Ticket Dispenser

Electrical Parts

CG2027	Power cord 9' 10"
CL2364X	ASY (Blower)
CS8449X	ASY (Ballast)
DA2001X	Main Power Supply
DA2002X	Transformer for Main power supply
E02027G	Fan Guard
E00211	Switch (Low Ticket)
E2034X	PCBA (ARM 7 Brain Board)
FP2007	Speaker (4" Round)
CB2232X	(PCBA Display)
E00439BFRX	ASY (Flex Strip Red)
E00414BFRX	ASY (Blue 75 LED Tape Strip)
E00418FRX	ASY (White 12 LED Tape Strip)
E00440FRX	ASY (Red Jewel Lights)
MZ2005	Button (4" Round White)
FR3027X	Marquee Assembly
2133CO	Orange Rope Light
E00382	27W CF Bulb
WK2009X	ASY (Solenoid)
FR2039TX	PCBA (Opto Transmitter)
FR2039RX	PCBA (Opto Receiver)
WS2032FRX	PCBA (Display)
PE2034FRX	PCBA (Main I/O)
PP250X	ASY (Socket)
PX2007X	ASY (Power Mod 4 Amp)
E00038	Fuse 4 Amp 250v Slo-Blo
WA1007X	ASY (Reset Button w/ Bracket)

Graphics and Decals

FR7002	Decal—"Stop" Button
FR7003	Decal—Playfield 'Rear'
FR7004	Decal—"Credit"
FR7005	Decal—"Tickets"
FR7007	Decal—Playfield Overlay
FR7027	Marquee Glass

WARRANTY

I.C.E warrants all components in the **Free Fallin'**™ game to be free of defects in materials and workmanship for a period listed on the next page from the date of purchase.

This warranty does not cover items damaged due to normal wear and tear, subjected to abuse, improperly assembled by the end user, modified, repaired, or operated in a fashion other than that described in the service manual.

If your **Free Fallin'**™ game fails to conform to the above-mentioned warranty, I.C.E.'s sole responsibility shall be at its option to repair or replace any defective component with a new or remanufactured component of equal to or greater O.E.M. specification.

I.C.E. will assume no liability whatsoever, for costs associated with labor to replace defective parts, or travel time associated therein.

I.C.E.'s obligation will be to ship free of charge, replacement parts by domestic U.P.S. Ground, U.S. mail, or other comparable shipping means. Any express mail or overnight shipping expense is at the cost of the purchaser.

Products will be covered under warranty only when:

- The serial number of the game with the defective parts is given. A tech number has been issued by an I.C.E. technical representative.
- The serial number of the defective part, if applicable, is given.
- Defective parts are returned to I.C.E., shipping pre-paid, in a timely fashion, if requested by I.C.E.
- A copy of the sales receipt is available as proof of purchase upon request of I.C.E.

I.C.E. distributors are independent, privately owned and operated. In their judgment, they may sell parts or accessories other than those manufactured by I.C.E. We cannot be responsible for the quality, suitability, or safety of any non-I.C.E. part, or any modification, including labor, which is performed by such a distributor.



WARRANTY

When placing a warranty request, please be prepared to provide the following information:

- Serial Number of Game or Bill of Sale
- Machine Type
- A Detailed Description of the Equipment Fault Symptoms

Free Fall is warranted as follows:

- 6 months on the Main PCB assembly
- 6 months on the blower motor
- 90 days on all other components (i.e. DBV's, Ticket Dispensers, sensors, etc)

ICE Inc shall not be obligated to furnish a warranty request under the following conditions:

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

ICE Inc will assume no liability whatsoever for costs associated with labor to replace defective parts or travel time associated therein.

All defective warranty covered components will be replaced with new or factory refurbished components equal to OEM specifications. ICE Inc will cover all domestic UPS ground, or comparable shipping means, freight costs during the warranty period. Expedited shipments are available for an additional charge.

Defective parts are returned to ICE Inc, at the customer's expense, in a timely fashion.

ICE distributors are independent, privately owned and operated. In their judgment, they may sell parts and/or accessories other than those manufactured by ICE Inc. We cannot be responsible for the quality, suitability or safety of any non-ICE part, modification (including labor) that is performed by such a distributor.

I.C.E. Parts/Service Dept.
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