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--MARK--

TURBOTM

OPERATING INSTRUCTIONS

AND

SERVICE MANUAL

MANUFACTURED BY

SEGA[®]/**Gremlin**[®]

TLX 910-335-1621

TURBO OWNER'S MANUAL

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INTRODUCTION

TURBO is a microprocessor based coin-operated electronic game, that makes extensive use of digital integrated circuitry and television monitor concepts, with a data storage capability unmatched in the industry at this time. This manual is designed for the use of maintenance technicians who possess a general working knowledge of solid-state circuitry, and video monitor theory. Any individual NOT knowledgeable in these areas SHOULD NOT attempt repair of the electronic portions of the game.

In addition to this manual and training in electronics, troubleshooting and repair will be eased by: access to general electronic type handtools, a multimeter, a 50 or 100 Mhz oscilloscope, and a logic probe would be helpful. Technical assistance is available by calling: (714) 277-8700 ext. 239 or toll-free (800) 854-1098. Questions or comments concerning TURBO, or any of our games are welcome, and should be directed to:

Technical Editor
SEGA/Gremlin Industries
8401 Aero Drive
San Diego, California 92123-9990
(714) 277-8700 ext. 214
TLX: 910-33501621

IMPORTANT NOTES

The following note is included in compliance with FCC rules:

WARNING: This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. As temporarily permitted by regulation, it has not been tested for compliance with the limits for Class A computing devices pursuant to Subpart J of Part 15 FCC Rules, which are designed to provide reasonable protection against interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

OTHER NOTES

NEVER replace any components with anything other than exact replacement parts.

NEVER remove circuit board connections while power is on.

DO NOT replace the fuse with anything other than the proper value. A blown fuse indicates an overload condition within the game. Replacing the fuse with a higher value can cause severe damage to internal components if an overload occurs.

ALWAYS consult the manual before attempting repairs.

GAME CONCEPT

TURBO, the newest game from SEGA/ Gremlin, is a one-player experience, available in cockpit and upright models. It combines the highly successful driving format of yesterday's MONACO GP with today's advances in memory and programming, resulting in our "true perspective" display. The aerodynamic TURBO cockpit is fully equipped with an LED instrument panel that maps acceleration, indicates the top five scores to beat, score of the last game played, and measures record breaking speeds. Standard features include a pro rally steering wheel, responsive 2-speed gear stick shift, illuminated oil and temperature gauges, and a full power accelerator, all in the realistic cockpit of a turbo charged race car. TURBO is also available in the compact upright, with score indicator, gauges, steering wheel, stick shift and accelerator for maximum space efficiency.

Both models offer behind the wheel excitement in a grueling cross country race. Road handling skills are put to the test as the TURBO course winds through busy city streets, narrow suspension bridges, blind tunnels and rambling country roads. Unexpected changes in road conditions, such as snow, wreckless competitors, and emergency routed ambulances, further challenge a player's driving abilities. No pit stops are permitted in this fast-paced race to the finish. Points are accumulated as TURBO successfully routes through each phase of the course, passing other cars. Drivers can monitor their progress at a glance with readouts for time remaining on the clock and number of cars passed at the top of the screen. A collision during the first lap sends drivers back to the starting line. In succeeding laps, however, a collision explodes the TURBO car on impact. Drivers run a high risk of collision when approaching a hill at top speed. The crest of the hill blocks the driver's view of fast oncoming vehicles. Drivers are advised to check their speed and exercise caution while climbing steep hills. An extended play victory lap is awarded when drivers pass 30 cars with time to spare. A spare player car is awarded for each extended play, up to 4 cars. Passing (lapping) cars during this phase tacks on bonus points. The game ends as lap time expires for last car, or the last car is lost in a collision.

OPTIONS SELECTION

ASSY CPU BOARD 834-0110

GAME OPTIONS

SWITCH 1

<u>NUMBER OF CARS</u>	1	2	3	4	5	6	7	8
1 CAR	ON	ON	X	X	X	X	X	X
2 CARS	OFF	ON	X	X	X	X	X	X
3 CARS	ON	OFF	X	X	X	X	X	X
4 CARS	OFF	OFF	X	X	X	X	X	X
AVERAGE	X	X	ON	X	X	X	X	X
SKILLED	X	X	OFF	X	X	X	X	X

GAME OPTIONS

SWITCH 2

<u>GAME TIME</u>	1	2	3	4	5	6	7	8
60 SECONDS	ON	ON	X	X	X	X	X	X
70 SECONDS	OFF	ON	X	X	X	X	X	X
80 SECONDS	ON	OFF	X	X	X	X	X	X
90 SECONDS	OFF	OFF	X	X	X	X	X	X

COIN MECH 1

	1	2	3	4	5	6	7	8
1 COIN 1 PLAY	X	X	X	X	X	ON	ON	ON
1 COIN 2 PLAY	X	X	X	X	X	OFF	ON	ON
1 COIN 3 PLAY	X	X	X	X	X	ON	OFF	ON
1 COIN 6 PLAY	X	X	X	X	X	OFF	OFF	ON
2 COIN 1 PLAY	X	X	X	X	X	ON	ON	OFF
3 COIN 1 PLAY	X	X	X	X	X	OFF	ON	OFF
4 COIN 1 PLAY	X	X	X	X	X	ON	OFF	OFF
1 COIN 1 PLAY	X	X	X	X	X	OFF	OFF	OFF

<u>COIN MECH 2</u>	1	2	3	4	5	6	7	8
1 COIN 1 PLAY	X	X	ON	ON	ON	X	X	X
1 COIN 2 PLAY	X	X	OFF	ON	ON	X	X	X
1 COIN 3 PLAY	X	X	ON	OFF	ON	X	X	X
1 COIN 6 PLAY	X	X	OFF	OFF	ON	X	X	X
2 COIN 1 PLAY	X	X	ON	ON	OFF	X	X	X
3 COIN 1 PLAY	X	X	OFF	ON	OFF	X	X	X
4 COIN 1 PLAY	X	X	ON	OFF	OFF	X	X	X
1 COIN 1 PLAY	X	X	OFF	OFF	OFF	X	X	X

ASSY SOUND BOARD 834-0123

<u>OPTION</u>	1	2	3	4
SOUND SYSTEM { COCKPIT MODEL	X	X	X	ON
	X	X	X	OFF
TACHO METER { LED TYPE	X	X	ON	X
	X	X	OFF	X

TURBO TROUBLESHOOTING PROCEDURES

TURBO is a "state-of-the-art" electronic microprocessor based, video game. The result of hundreds of hours of work, design, research, experiment and more work. However, as with any electronic device, component failure or other problems can result in a game that doesn't function properly, or doesn't function at all. In either case, your game is "down", and so critically, are your profits.

Your objective is to fix it as quickly as possible, and logical troubleshooting goes a long way toward that repair. Although many troubleshooting methods may be familiar to you, procedural logic is common among them, and might be stated in this order: visual inspection, symptom recognition, symptom isolation, function isolation, component isolation and repair. Familiarity with the equipment in question will allow you to bypass one or more of these steps, as any particular problem may be obvious to you, or may have happened before. In general though, these 6 steps form a good premise upon which to approach your "down" game.

An extremely important item in our procedure is the first mentioned, giving the gear the "once over". A large percentage of failures found in electronics, show themselves visually and often a great deal of time can be saved by inspecting for burnt or blown components, loose or disconnected wiring or connectors, or PCB traces burnt or pulled up. Thorough visual inspections become increasingly important the closer you get to the faulty item, and should be repeated each time another portion of the game is eliminated. Symptom recognition (as with all electronic troubleshooting) in your TURBO depends first, on knowing what a proper display is, and second, knowing how your display differs from a normal one. Symptom isolation follows naturally; (i.e., "I have no picture", "I have no sound", "I have no control over the car", "the picture is scrambled"), ergo, a video, audio, input or logic problem. Function isolation, such as a sync problem with the video, requires that you consider those functions that go to make up video sync. Is it a monitor problem, or an "on-the-board" problem? A monitor input check to verify the signal will tell you. Does the board have the voltage (from the power supply) that it needs? Yes? We must have a board failure, as we've just isolated down to function. Taking our sync problem further, before we begin our search for an individual component, let's reapply that first item in our "Logical Troubleshooting Procedure". Look at the board. Open resistors, diodes, and capacitors often give themselves away.

Noticing a trace literally burned open can save you serious "down-time". The board looks OK, so on we go. Specific component isolation relates to the specific nature of the failure, component commonality, proper inputting (both signal and power) and proper outputting (as in the case of an output held high, low, or floating by input port failure in the succeeding state). More general problems (such as a total loss of video sync) requires the more involved procedure of systematic elimination of possibilities. This operation can be expedited however, by dividing the circuit in half, establishing a "go-no/go" at that point, and again dividing the suspect circuit portion in half. The largest possible areas can be eliminated in this manner, dividing and subdividing until the individual component failure is found.

EPROM failures are relatively common, and may be the easiest to find. Specific problems with programming can often be identified with specific devices and the following table is intended to identify these programming assignments:

-CPU BOARD (P/N 834-0110)

IC No.	ROM No.	Device Type	Function
22	PA-06R		Hard Lock
90	PA-06L		Hard Lock
99	PR-1118	74S287	77A-Color
50	PR-1119	MPB425D	V. Rate
62	PR-1120	MPB425D	H. Sync & H. Timing
1	EPR-1125	2716	Road Line
2	EPR-1126	2716	Road Line
13	EPR-1127	2716	Road Line
14	EPR-1238	2716	Road Line
27	EPR-1239	2716	Road Line
28	EPR-1240	2716	Road Line
41	EPR-1241	2716	Road Line
42	EPR-1242	2716	Road Line
74	EPR-1243	2716	Road Line
111	EPR-1244	2716	Character Generator, Letters, Building, Mount)
76	EPR-1262	2764	Main Program
89	EPR-1263	2764	Main Program
103	EPR-1264	2764	Main Program

-ASSY CPU BLOCK (P/N 834-0129)

5	PA-05R		Soft Lock
4	PA-05L		Soft Lock

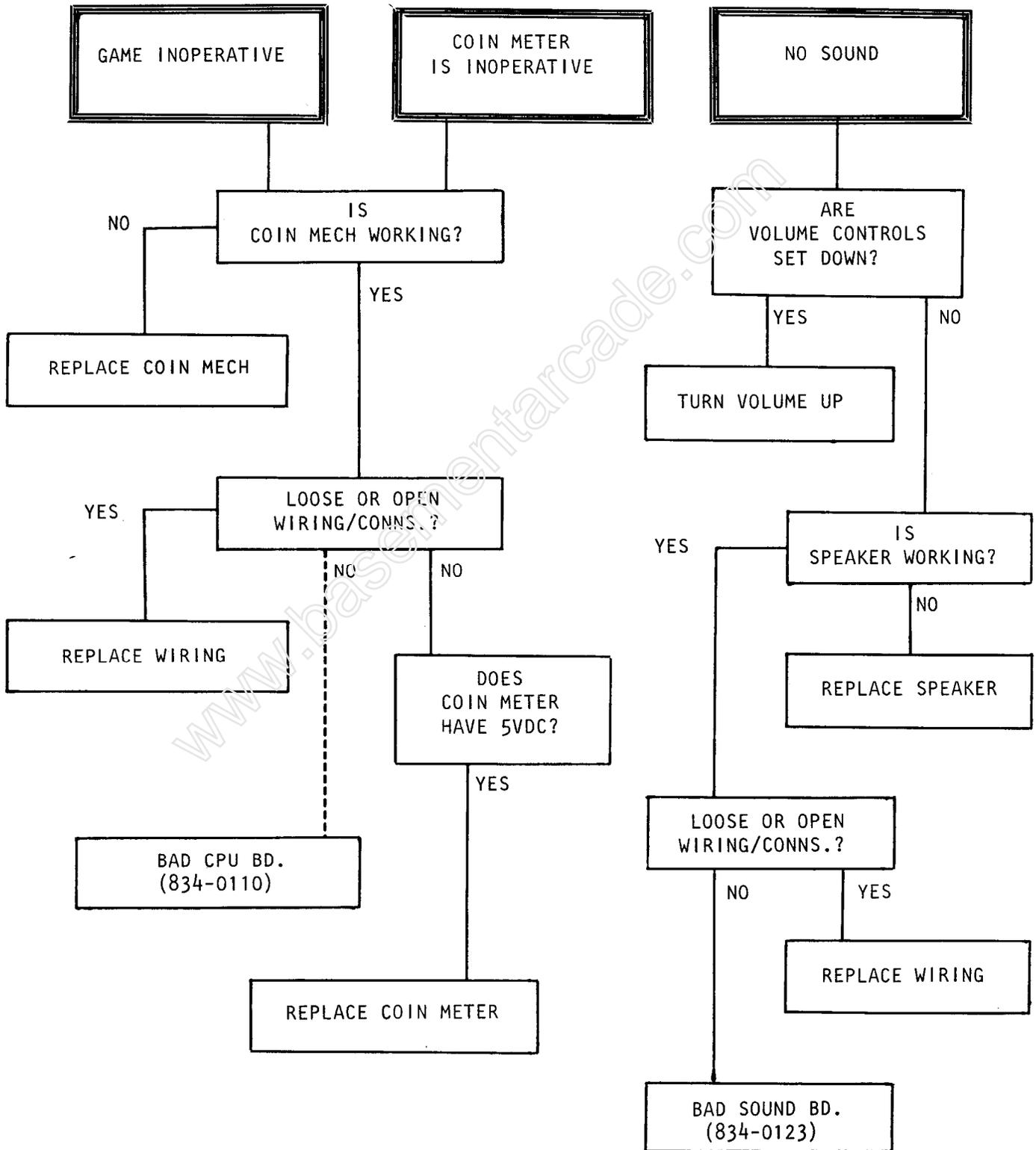
-PROM BOARD (P/N 834-0111)

IC NO.	ROM NO.	DEVICE TYPE	FUNCTION
18	PR-1115	TBP1BS030	Road
20	PR-1116	TBP1BS030	Crash
21	PR-1117	TBP1BS030	Color Data Road
13	PR-1114	TBP1BS030	Color Data Road
29	PR-1121	UPB425D	Color ROM
11	PR-1122	UPB426D	Scene Side
12	PR-1123	UPB426D	Display
84	EPR-1246	2764	My Car
86	EPR-1247	2764	Other Car
88	EPR-1248	2764	Other Car
90	EPR-1249	2764	Back Scene, Bldg., Tree Etc.
108	EPR-1250	2764	Back Scene, Bldg., Tree Etc.
92	EPR-1251	2764	Back Scene, Bldg., Tree Etc.
110	EPR-1252	2764	Back Scene, Bldg., Tree Etc.
94	EPR-1253	2764	Back Scene, Bldg., Tree Etc.
112	EPR-1254	2764	Back Scene, Bldg., Tree Etc.
32	EPR-1255	2764	Back Scene, Bldg., Tree Etc.
47	EPR-1256	2764	Back Scene, Bldg., Tree Etc.
34	EPR-1257	2764	Back Scene, Bldg., Tree Etc.
49	EPR-1258	2764	Back Scene, Bldg., Tree Etc.

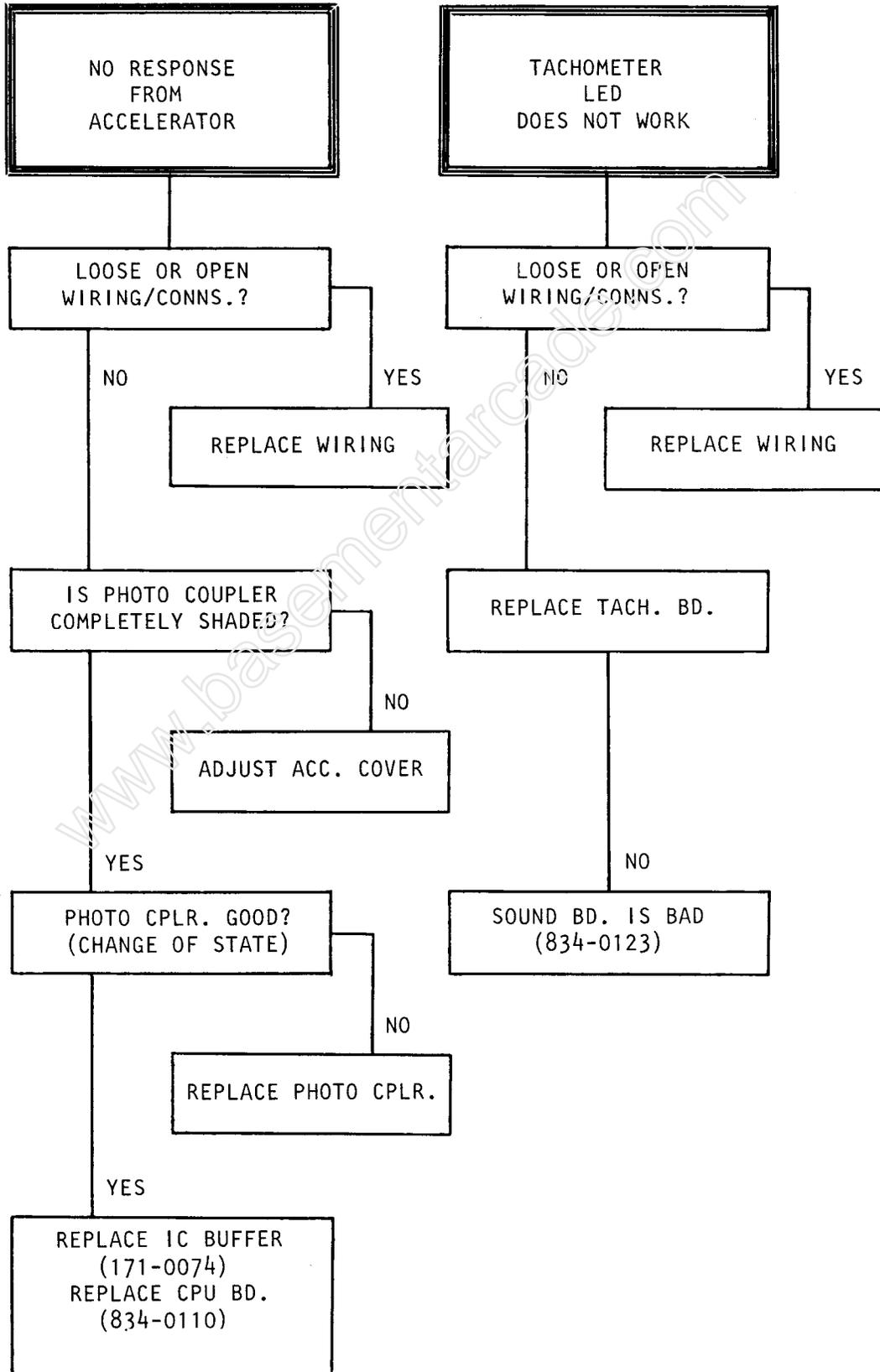
-SOUND BOARD (P/N 834-0123)

40	PR-1279	6330	Other Car Control
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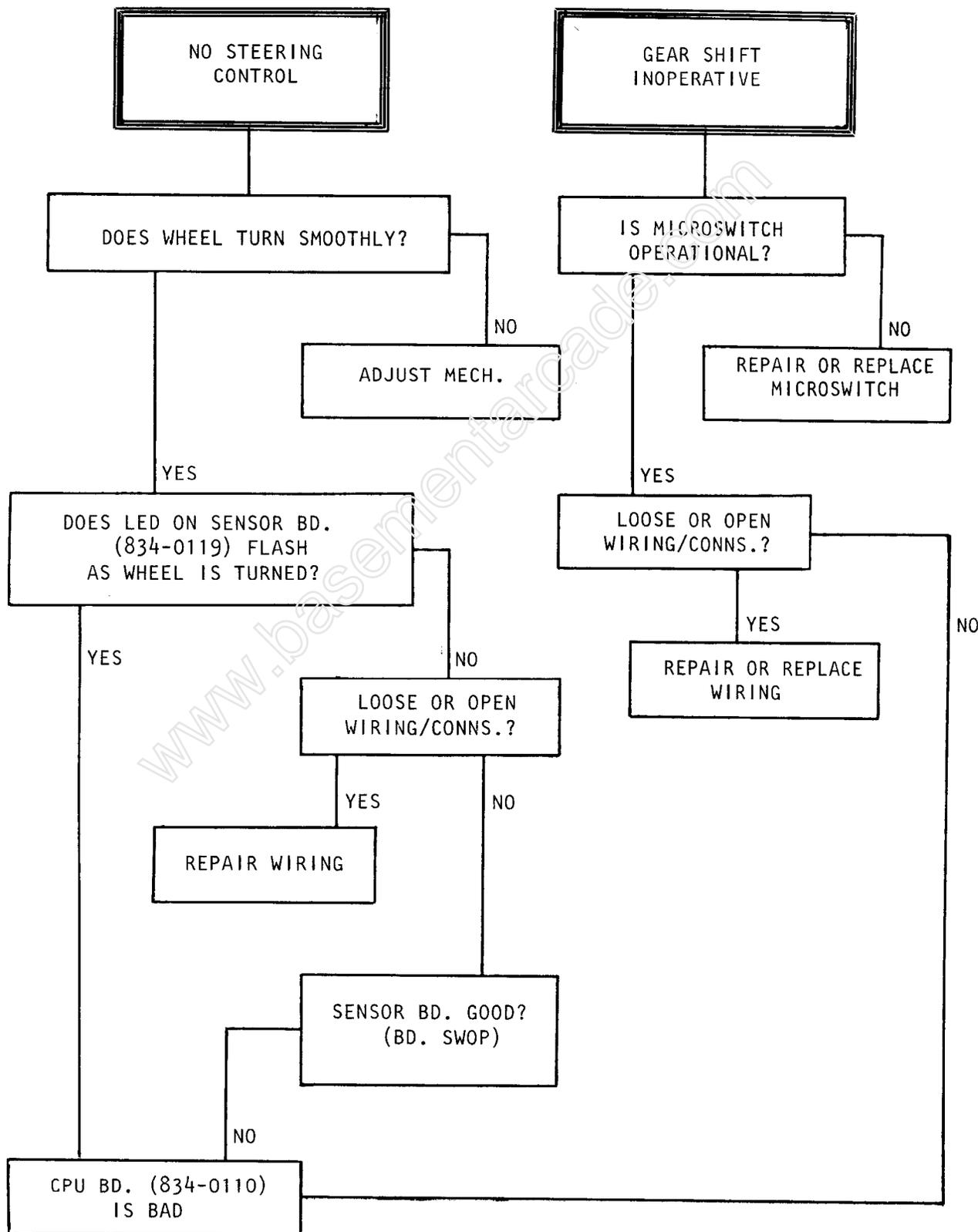
TROUBLESHOOTING CHART



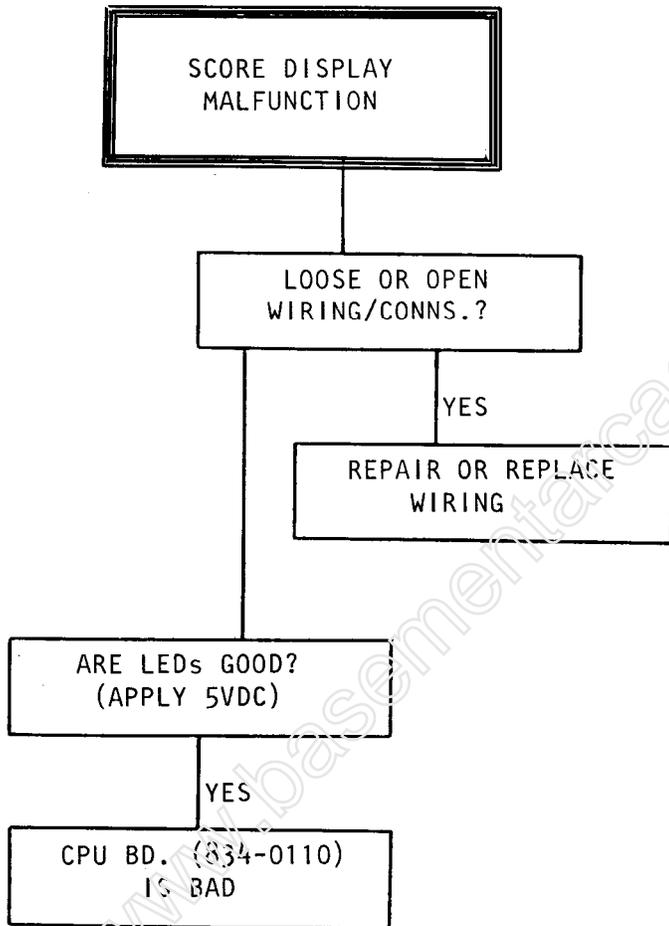
TROUBLESHOOTING CHART



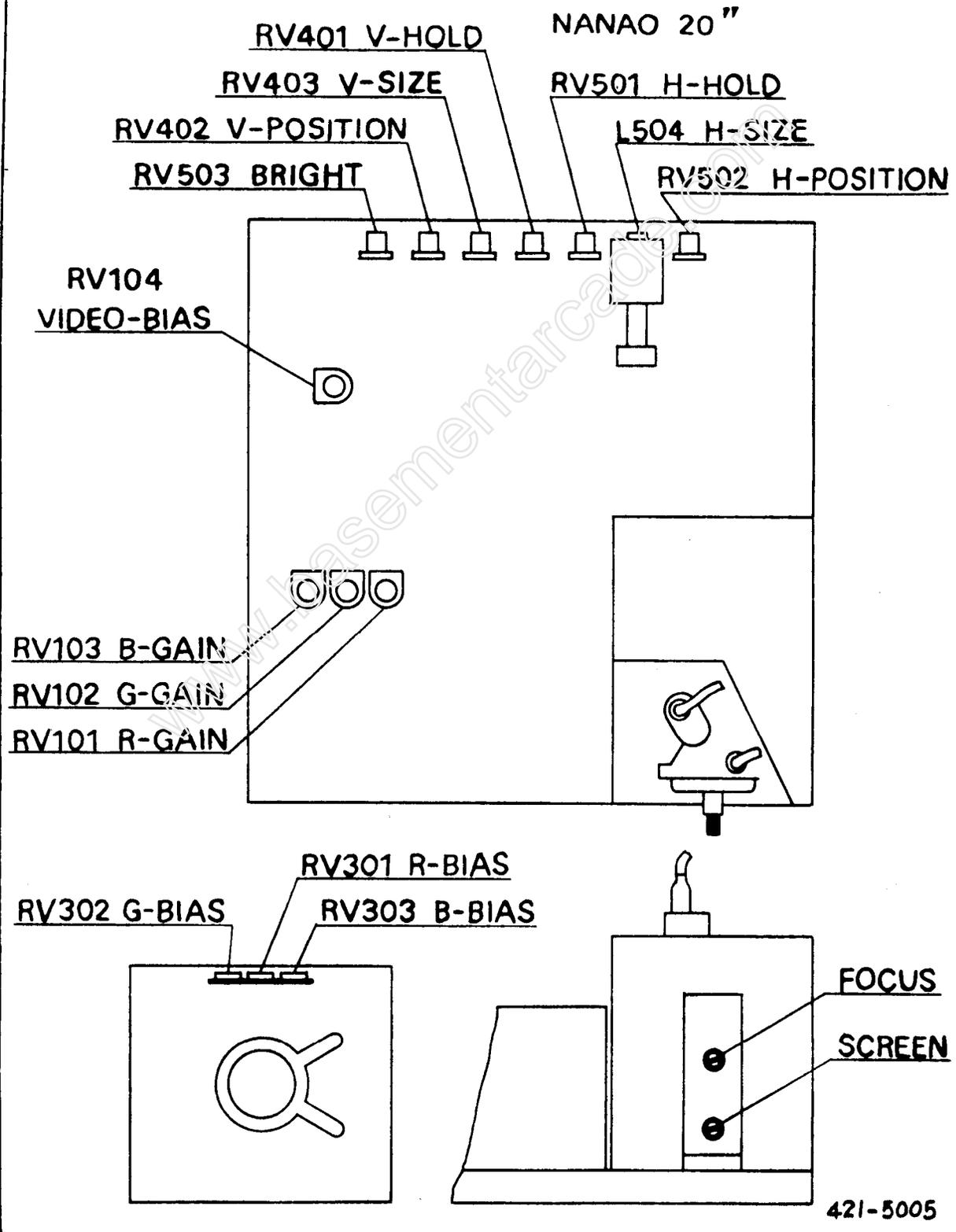
TROUBLESHOOTING CHART



TROUBLESHOOTING CHART



COLOR DISPLAY ADJUSTABLE CONTROLS



10 Indicates recommended spare parts--stock quantity indicated to support 6 games.

SEGA TURBO COMPLETE ASSY. - UPRIGHT 20" / 16"

DRAWING NUMBER 734-0048

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
1	834-0081	1	Cabinet Accessory Assy.
2	834-0088	1	Front Panel and Handle Unit
3	834-0092	1	Power Supply Assembly
1 4	834-0109	1	Assy IC Board, Turbo
1 5	834-0123	1	Assy Sound Board, Turbo
6	420-0682	1	Sticker, Service Instruction, English
7	117-0089	1	Name Plate, Electrical Specification
8		1	Polyethylene Cover, 750 X 950 X 1900
9		10	Harness Lug
10	420-0683	1	Sticker, Danger High Voltage
11	421-5005	1	Adjustment Instructions Sheet
12		2	Sticker, A & L
13		1	Sticker, Original Seal, Turbo, English
14	834-0096	1	Assy Harness Cabinet (DU)
15	834-0107	1	Assy Harness IC Power Supply (DU)
16	834-0097	1	Assy Harness Input (DU)
17	834-0098	1	Assy Harness Video (DU)
18	834-0099	1	Assy Harness Coin Meter (DU)
19	834-0100	1	Assy Harness SP 8 OHM (DU)
20	834-0101	1	Assy Harness Coin SW. (DU)
21	834-0102	1	Assy Harness SP 4 OHM X 2 (DU)
22	834-0103	1	Assy Harness Fan Motor (DU)
23	834-0104	1	Assy Harness Earth (DU)
24	600-0096	1	Assy Fem & Flat Cable 26P (L=150)
25	600-0095A	1	Assy Fem & Flat Cable 50P (L=1100)

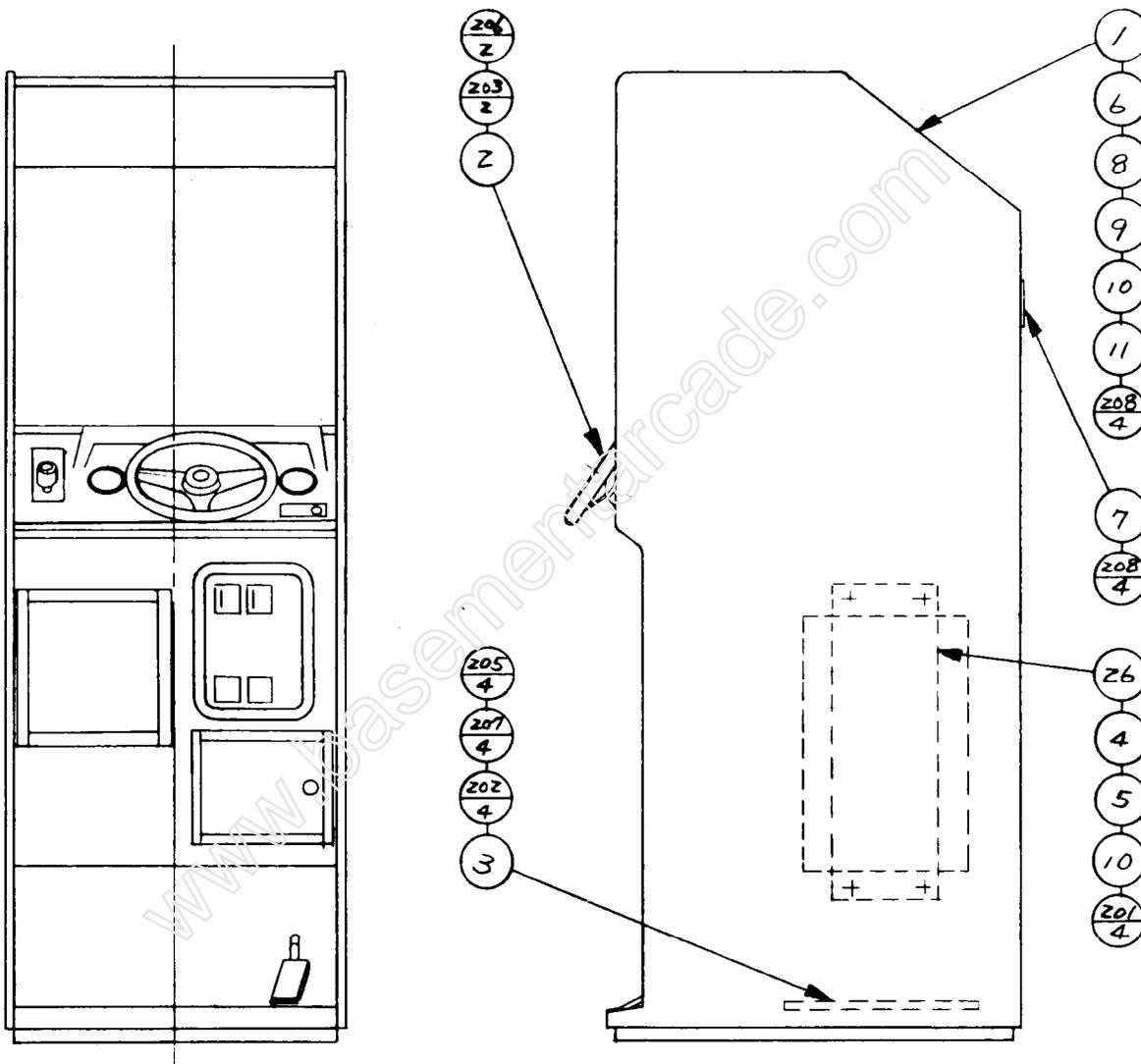
<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
26		1	IC Board Case
101	211-0096	1	Conn Plug Amp 2P Yellow (Amp 1-480698-4)
102	211-0043	1	Conn Plug AMP 2P Yellow (AMP 1-480698-4)
103	211-0097	1	Conn Plug AMP 3P Red (AMP 1-480700-2)
104	211-0059	1	Conn Plug AMP 3P White (AMP 1-480700-0)
105	211-0094	1	Conn Plug AMP 2P Red (AMP 1-480698-2)
106	211-0073	1	Conn Plug AMP 4P White (AMP 1-480702-0)
107	211-0048	1	Conn Plug AMP 15P White (AMP 1-480710-0)
108	211-0044	1	Conn Cap AMP 2P White (AMP 1-480699-0)
109	211-0060	1	Conn Cap AMP 3P White (AMP 1-480701-0)
110	211-0119	1	Conn Cap AMP 3P Orange (AMP 1-480701-3)
111	211-0072	1	Conn Cap AMP 4P White (AMP 1-480703-0)
112	211-0046	1	Conn Cap AMP 6P White (AMP 1-480705-0)
113	211-0065	1	Conn Cap AMP 9P White (AMP 1-480707-0)
114	211-0095	1	Conn Plug AMP 2P Orange (AMP 1-480698-3)
115	211-0041	*49	Conn Pin AMP (AMP 350687-1)
116	211-0042	*39	Conn Socket AMP (AMP 350536-1)

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
117	211-0158	3	Conn Fem Insul Disp 6 Pin (S97566-1)
118	211-0159	2	Conn Fem Insul Disp 12 Pin (S-96302-1)
119	211-0160	1	Conn Fem Insul Disp 18 Pin
120	211-0005	*61	Socket Element (Molex 2578T) (S-96305)
121	211-0162	1	Conn Fem Insul Disp 4 Pin
122		*6	Terminal Lug, Round I.D. 5 (AMP 170011-2)
123		*8	Staple Max #3
124	211-0086	1	Conn Plug Amp 3P Brown (Amp 1-480700-1)
125	211-0099	1	Conn Plug Amp 3P Yellow (Amp 1-480700-4)
126	211-0087	1	Conn Plug Amp 4P Brown (Amp 1-480702-1)
127	211-0104	1	Conn Plug Amp 6P Orange (Amp 1-480704-3)
128	211-0081	1	Conn Cap Amp 3P Brown (Amp 1-480701-1)
129	211-0127	1	Conn Cap Amp 9P Red (Amp 1-480707-2)
130		7	Hole Peg for Socket (Molex 2560-1)
201		4	M. Screw, P.H. Phill, ISO, W/S Washer M5X16
202		4	M. Screw, P.H. Phill, ISO M5X30
203	111-1034	2	Button Head Screw, Hex. Socket M8X30
204		10	Wood Screw, R.H. Phill 3.5X10

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
205		4	Flat Washer, Special 5.6-19.1X1.2
206		2	Flat Washer, Special, ZMC3, Black
207		4	Spring Washer M5 (#2)
208		4	Screw Nail, Thin Head Stainless 1.5 X 16

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**Turbo Complete Assy Upright 20'' & 16''
734-0048**



<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
1	834-0082	1	Cabinet Accessory Sub-Assy
2	601-0679	1	Window Panel Turbo, Upright 16
3	220-0202	2	Lower Coin Chute
4	420-0676	1	Play Instructions Sheet, Turbo, English
5	105-0242	1	Meter Bracket
6	834-0105	1	Control Unit
7	834-0083	1	Fluorescent Light Assy. 10W
1 8	834-0106	1	Accelerator Mechanism Assy.
9	834-0800	1	Score Board Assy. Upright 16
10	109-0044	1	Holder
11	105-0243	2	Bracket, Monitor Board
12	200-0039	1	Color Display Assy. 16 Type, 100V (Nanco MC-1600-S)
13	105-0064	1	Main Switch Bracket
14	220-0155	1	Cash Box
15	105-0176	2	Bracket, Toggle Hook
16	420-0677	1	Sticker, Coin Meter
17	220-0084	2	Coin Chute Rejector Type, 25 X 1
1 18	601-0556	1	Accelerator Pedal Assy.
19	105-0177	2	Fan Bracket, A
20	140-0062	1	Cover
21	105-0244	1	TV Mounting Bracket, A
22	105-0245	1	TV Mounting Bracket, B
23	105-0246	2	Mounting Bracket
24	280-0402	1	Locking Tongue

<u>ITEM</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
25	834-0087	1	Coin Chute Door Assy.
26	220-0097	1	Ace Cylinder Lock, L.S. Type
27	109-0045	1	Key Holder
28	117-0176	2	Speaker Guard Plate
29	117-0177	1	Top Cover Plate
30	117-0178	1	Net Plate
101	600-0001	1	Cable and Plug Assy
102	509-0039	1	Switch, Push Button Type
103	117-0068	1	Terminal Plate, 163 PA
104	481-0027	1	Rectifier, Silicon Diode
105	209-0023	6	Closed End Connector, Solderless Type Capacity
106	601-0505	2	Toggle Hook,
107	130-0021	2	Speaker, 12cm, 4ohm, 5W
108	130-0022	1	Speaker, 30cm, 8ohm, 40W
109	601-0444	2	C&R Combination Element
110	280-0392	1	Bushing, Strain, Relief
111	280-0393	1	Terminal, Binding Post, Black
112	509-0049	1	Switch Stopper, 12"
113	601-0430	1	Axial Flow Fan, AG 100V,50-60Hz
114	601-0429	1	Noise Filter, AC 250V, 4A
115	601-0680	1	Magnet Counter, 6 Digits, DCSV W/Lamp
116	601-0484	1	Outlet, AC Type

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
201		2	M. Screw, P.H. Phill, ISO, W/F Washer
202		4	M. Screw, P.H. Phill, ISO, W/F Washer
203		2	M. Screw, P.H. Phill, ISO, W/F Washer
204		4	M. Screw, P.H. Phill, ISO, W/F Washer
205		16	M. Screw, P.H. Phill, ISO, W/F & S Washer
206		10	M.Screw, P.H. Phill, ISO
207		2	M. Screw, P.H. Phill, ISO.
208		4	M.Screw, P.H. Phill, ISO
209		8	M. Screw, F.H. Phill, ISO
210		7	Carriage Bolt, ZMC3, Black, Special, ISO
211		7	Wood Screw, R.H. Phill
212		4	Wood Screw, R.H. Phill
213		9	Wood Screw, R.H. Phill
214		23	Wood Screw, R.H. Phill, W/F Washer
215		2	Hex. Nut, ISO
216		5	Flange Nut, ISO, Serrated Type
217		2	Flat Washer
218		16	Flat Washer
219		16	Spring Washer
220		8	Lock Washer, Counter Sunk, Ext.

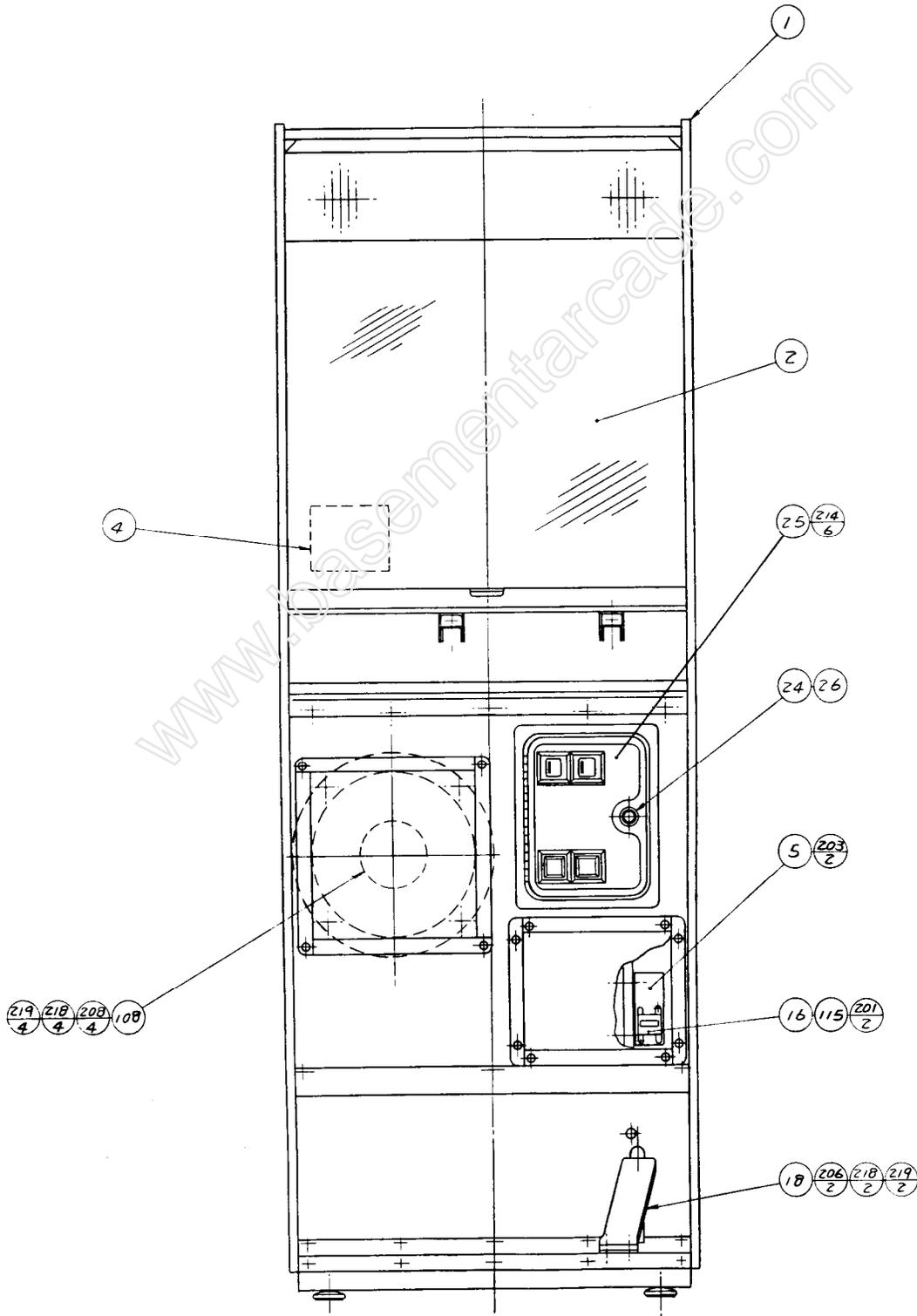
<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
1	834-0082	1	Cabinet Accessory Sub-Assy
2	601-0723	1	Window Panel Turbo, Upright 16
3	220-0202	2	Lower Coin Chute
4	601-0724	1	Play Instructions Sheet, Turbo, English
5	105-0242	1	Meter Bracket
6	834-0105	1	Control Unit
7	834-0083	1	Fluorescent Light Assy. 10W
1 8	834-0106	1	Accelerator Mechanism Assy.
9	834-0136	1	Score Board Assy. Upright 16
10	109-0044	1	Holder
11	105-0243	2	Bracket, Monitor Board
12	200-0052	1	Color Display Assy. 16 Type, 100V (Nanco MC-1600-S)
13	105-0064	1	Main Switch Bracket
14	220-0155	1	Cash Box
15	105-0176	2	Bracket, Toggle Hook
16	420-0677	1	Sticker, Coin Meter
17	220-0084	2	Coin Chute Rejector Type, 25 X 1
1 18	601-0556	1	Accelerator Pedal Assy.
19	105-0177	2	Fan Bracket, A
20	140-0062	1	Cover
21	105-0259	1	TV Mounting Bracket, A
22	105-0260	1	TV Mounting Bracket, B
23	105-0246	2	Mounting Bracket
24	280-0402	1	Locking Tongue

<u>ITEM</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
25	834-0087	1	Coin Chute Door Assy.
26	220-0097	1	Ace Cylinder Lock, L.S. Type
27	109-0045	1	Key Holder
28	117-0176	2	Speaker Guard Plate
29	117-0177	1	Top Cover Plate
30	117-0178	1	Net Plate
101	600-0001	1	Cable and Plug Assy
102	509-0039	1	Switch, Push Button Type
103	117-0068	1	Terminal Plate, 163 PA
104	481-0027	1	Rectifier, Silicon Diode
105	209-0023	6	Closed End Connector, Solderless Type Capacity
106	601-0506	2	Toggle Hook,
107	130-0021	2	Speaker, 12cm, 4ohm, 5W
108	130-0022	1	Speaker, 30cm, 8ohm, 40W
109	601-0444	2	C&R Combination Element
110	280-0392	1	Bushing, Strain, Relief
111	280-0393	1	Terminal, Binding Post, Black
112	509-0049	1	Switch Stopper, 12"
113	601-0430	1	Axial Flow Fan, AG 100V,50-60Hz
114	601-0429	1	Noise Filter, AC 250V, 4A
115	601-0680	1	Magnet Counter, 6 Digits, DCSV W/Lamp
116	601-0484	1	Outlet, AC Type

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
201		2	M. Screw, P.H. Phill, ISO, W/F Washer
202		4	M. Screw, P.H. Phill, ISO, W/F Washer
203		2	M. Screw, P.H. Phill, ISO, W/F Washer
204		4	M. Screw, P.H. Phill, ISO, W/F Washer
205		16	M. Screw, P.H. Phill, ISO, W/F & S Washer
206		10	M.Screw, P.H. Phill, ISO
207		2	M. Screw, P.H. Phill, ISO.
208		4	M.Screw, P.H. Phill, ISO
209		8	M. Screw, F.H. Phill, ISO
210		7	Carriage Bolt, ZMC3, Black, Special, ISO
211		7	Wood Screw, R.H. Phill
212		4	Wood Screw, R.H. Phill
213		9	Wood Screw, R.H. Phill
214		23	Wood Screw, R.H. Phill, W/F Washer
215		2	Hex. Nut, ISO
216		5	Flange Nut, ISO, Serrated Type
217		2	Flat Washer
218		16	Flat Washer
219		16	Spring Washer
220		8	Lock Washer, Counter Sunk, Ext.

Cabinet Accessory Assy Upright 20''
834-0081

Cabinet Accessory Assy Upright 16''
734-0056

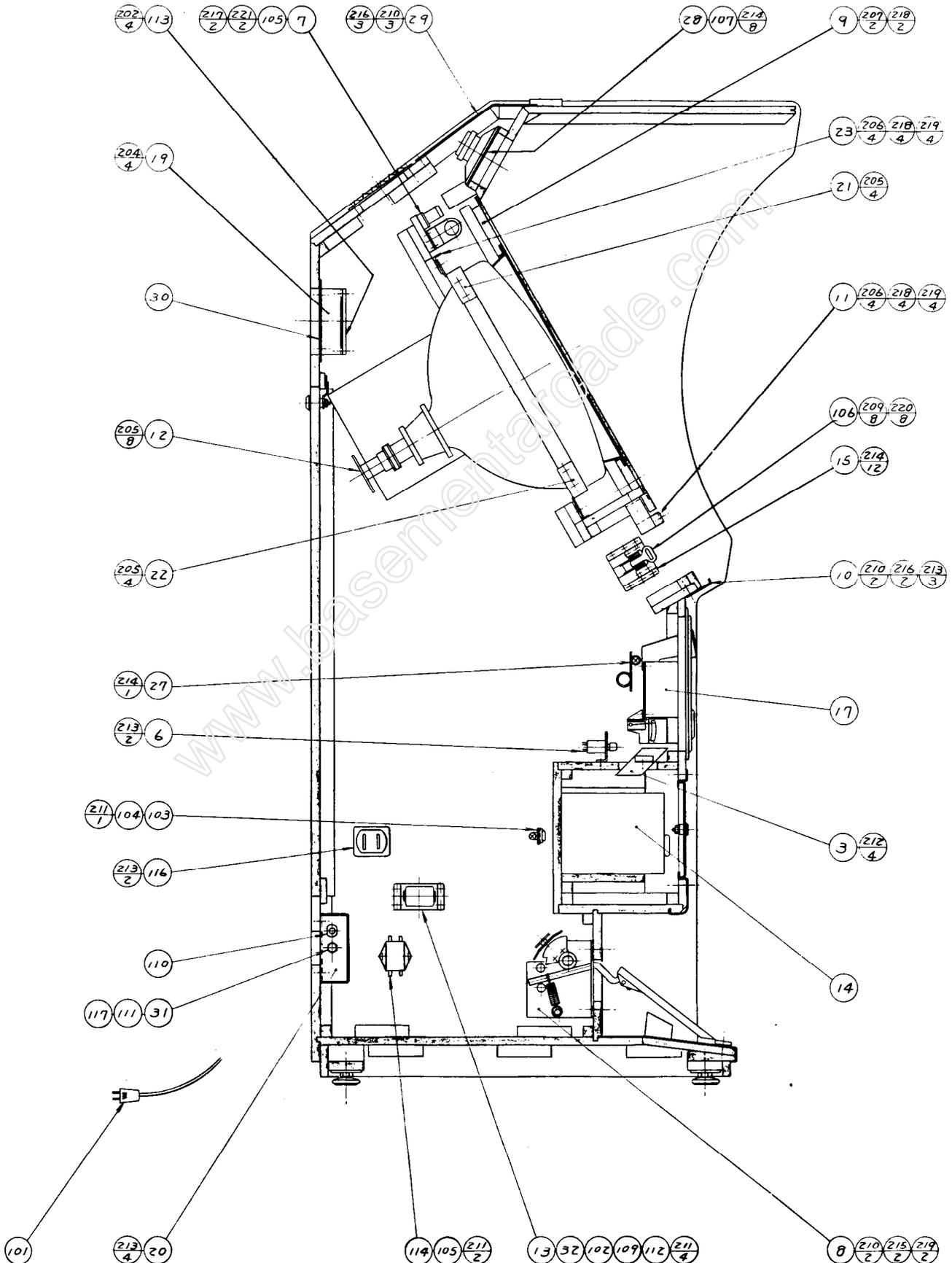


Cabinet Accessory Assy Upright 16"

734-0056

Cabinet Accessory Assy Upright 20"

834-0081

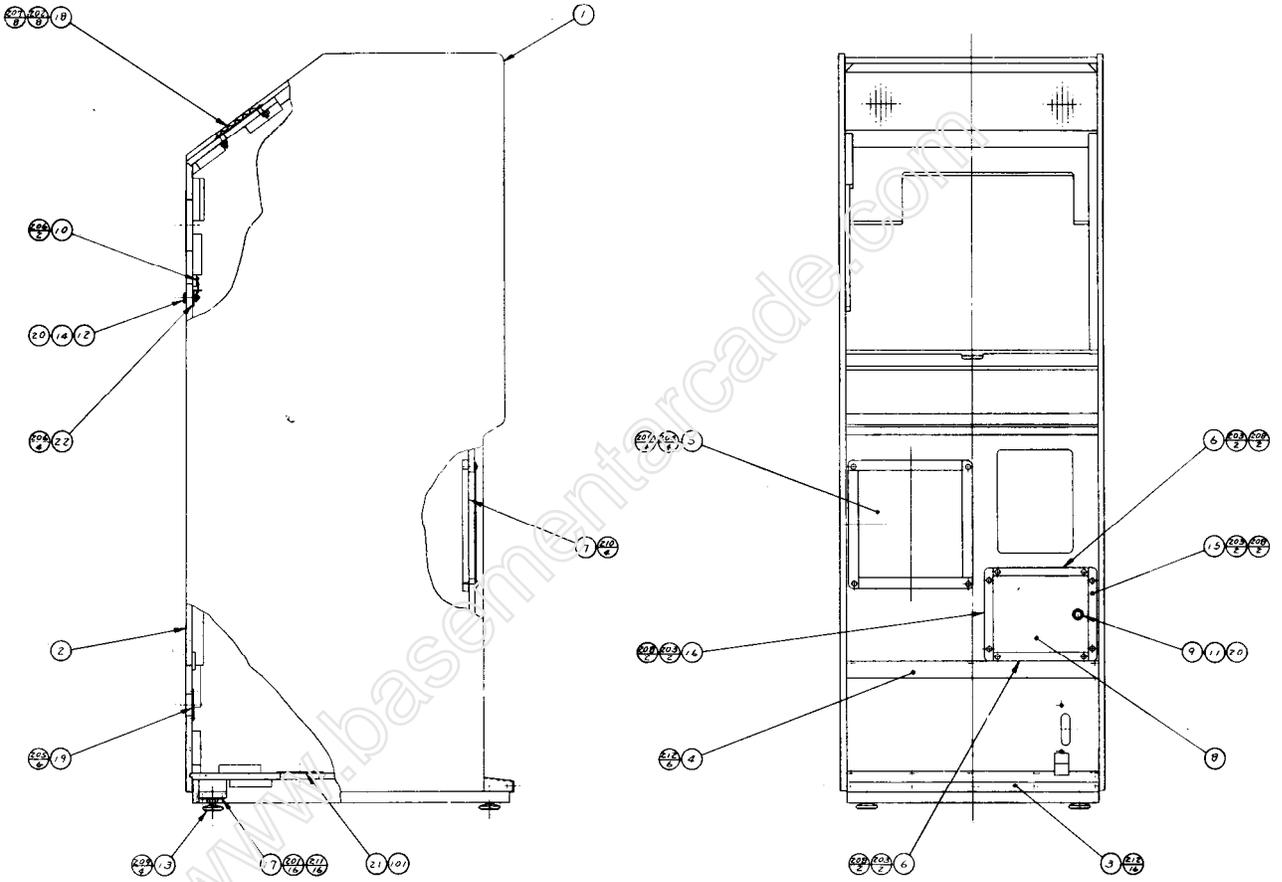


<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'd</u>	<u>DESCRIPTION</u>
1	834-0077	1	Wood Cabinet Assy.
2	601-0681	1	Back Door
3	117-0174	1	Scuff Plate
4	601-0682	1	Ornament Frame
5	117-0175	1	Speaker Guard Plate
6	601-0683	2	Door Protector, A
7	102-0038	1	Speaker Base
8	220-0203	1	Cash Box Door
9	601-0066	1	Locking Tongue
10	117-0063	1	Tongue Retainer Plate
11	280-0406	1	Spacer Ring
12	117-0062	1	Lock Retainer Plate
13	601-0455	4	Leg Adjuster
14	280-0401	1	Locking Tongue
15	601-0684	1	Door Protector, B
16	601-0685	1	Door Protector, C
17	105-0166	4	Led Adjuster Bracket
18	601-0686	2	Air Vent
19	117-0121	1	Net Plate
20	220-0097	2	Ace Cylinder Lock, L.S. Type
21	601-0687	1	Net
22	105-0241	1	Bracket
101		*8	Staple, Max #3

CABINET ACCESSORY SUB-ASSEMBLY - UPRIGHT 20" / 16" DRAWING NUMBER 834-0082

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
201		16	M. Screw, P.H. Phill., ISO
202		8	Carriage Bolt, ZMC3, Black, Special, ISO
203		8	Carriage Bolt, ZMC3, Black, Special, ISO
204		4	Carriage Bolt, ZMC3, Black, Special, ISO
205		6	Wood Screw, R.H. Phill
206		6	Wood Screw, R.H. Phill
207		8	Flange Nut, ISO, Serrated Type
208		12	Flange Nut, ISO, Serrated Type
209		4	Hex. Nut
210		4	T-Nut, ISO
211		16	Spring Washer
212		22	Screw Nail, Thin H. Stainless

Cabinet Accessory Sub-Assy Upright 20" & 16" 834-0082



<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
1	601-0688	1	Front Panel
2	102-0039	1	Wooden Base
3	105-0247	1	Handle Bracket
4	601-0689	1	Housing
5	123-0066	1	Steering Wheel Shaft
6	140-0065	1	Cover
7	601-0690	2	Lamp Holder Board
8	601-0691	1	Steering Handle Ornament
9	420-0678	1	Emblem, Turbo
10	117-0179	1	H and L Display Plate
1 11	834-0109	1	Shift Knob Assy.
12	117-0180	1	Start Button Plate
1 13	834-0137	1	Transmission Assy.
14	601-0534	2	Hook
15	140-0067	1	Hole Cover
16	106-0055	1	Disc
1 17	834-0119	1	Assy Sensor Board
18	601-0464	1	Spur Gear, 14T
19	601-0465	1	Spur Gear, 60T
20	105-0168	1	Bracket
21	109-0046	2	Holder, C
22	280-0390	2	Spacer Tube, 10
101	109-0048	1	Steering Handle, 260 Ø (Excel)
102	601-0471	1	Driving Meter (Paramount 540810-B)
103	390-0116	2	Lamp, Wedge Base Type, 14V, 0.24A (BF-175-01250A)

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
23	834-0091	1	Assy Harness Meter Lamp (DU)
24	834-0092	1	Assy Harness Handle (DU)
201		4	M.S. Screw, P.H. Phill, ISO M4X16
202		6	M.S. Screw, P.H. Phill, ISO W/S Washer, M4X8
203		11	M. Screw, P.H. Phill, ISO M5X16
204		4	Carriage Bolt, Boltmatics, Black Special ISO
205		4	Carriage Bolt, CMC3, Black, Special ISO
206	111-1033	3	Set Screw, Hex Socket, H. Cap Screw ISO M5X20
207		4	Wood Screw, R.H. Phill, W/F Washer
208		2	Wood Screw, R.H. Phill 3.1X20
209		18	Flange Nut, ISO, Serrated Type M4 (0.0=10)
210		5	Flange Nut, ISO, Serrated Type M5 (0.0=11)
211		1	Hex Nut, ISO M10
212		7	T Nut, ISO M5
213		4	T Nut, ISO M4
214		4	F Washer M4
215		2	F. Washer, Special 5.6
216		6	Spring Washer (M4#2)
217		15	Spring Washer (M5#2)
218		1	Spring Washer M10 (#2)

FRONT PANEL AND HANDLE UNIT - UPRIGHT 20" x 16"

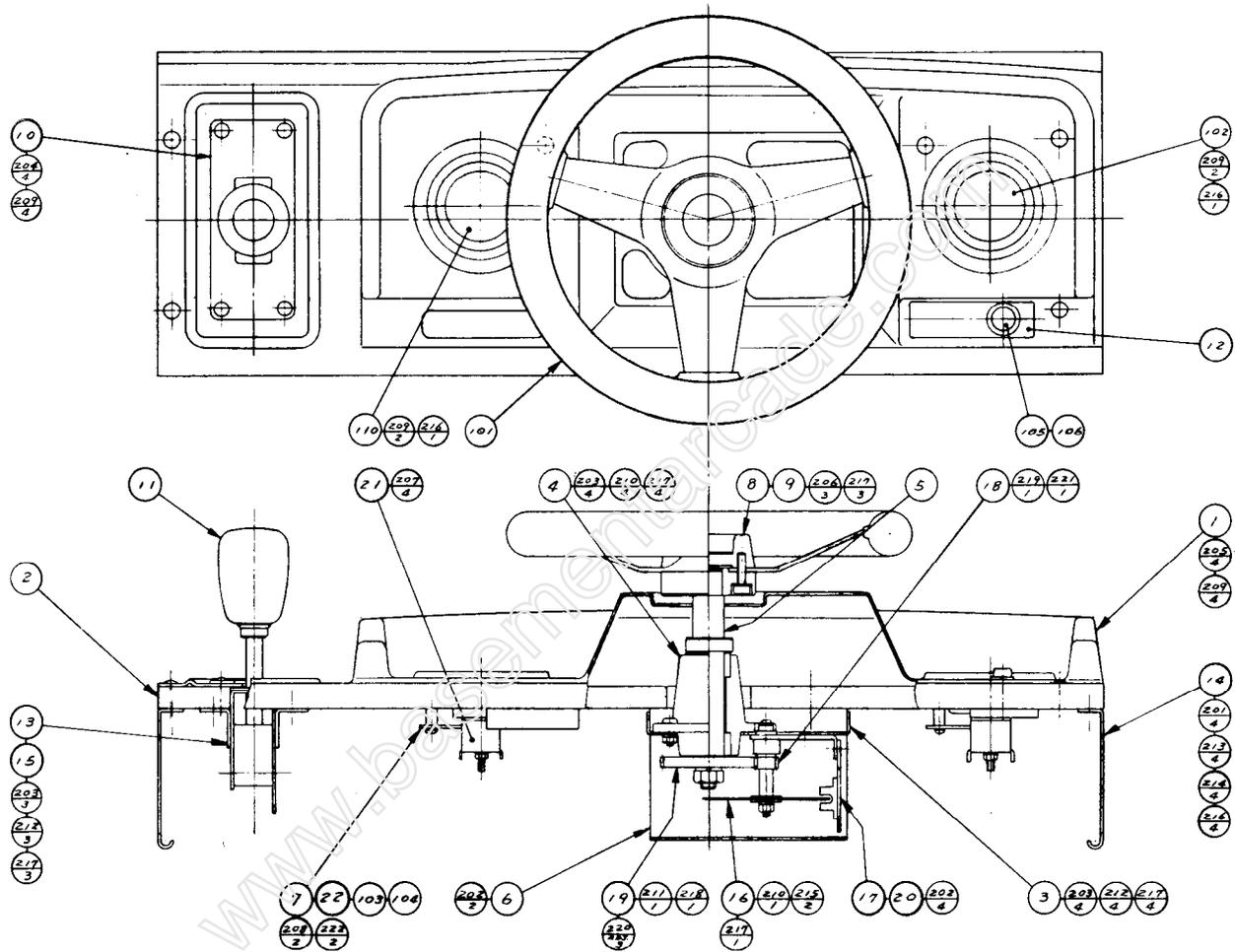
DRAWING NUMBER 834-0088

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
104	834-0079	2	Wedge Base Socket Assy (Stanley BF281-35100A)
105	509-0123	1	Push Button Switch, IM. 1B, Illuminated type Red W/Socket (Mulon mum-1P0R-B101)
106	390-0090	1	Lamp, 6V, 200 ma, Midget Grooved type (Mulon MU0891)
107	211-0095	1	Conn Plug Amp 2P Orange (Amp 1-480698-3)
108	211-0064	1	Conn Plug Amp 9P White (Amp 1-480706-0)
109	211-0041	1	Conn Pin Amp (Amp 350687-1)
110	601-0473	1	Oil Pressure Gauge (Paramount 540810-C)

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
219		1	E. Washer 4mm
220		3	Flat Washer, Special 21.4-30X0.2
221		1	Flat Washer, Special 6.8-9.5X0.6
222		2	Flat Washer M5
223		1	Spring Pin, Unbraro 3X16

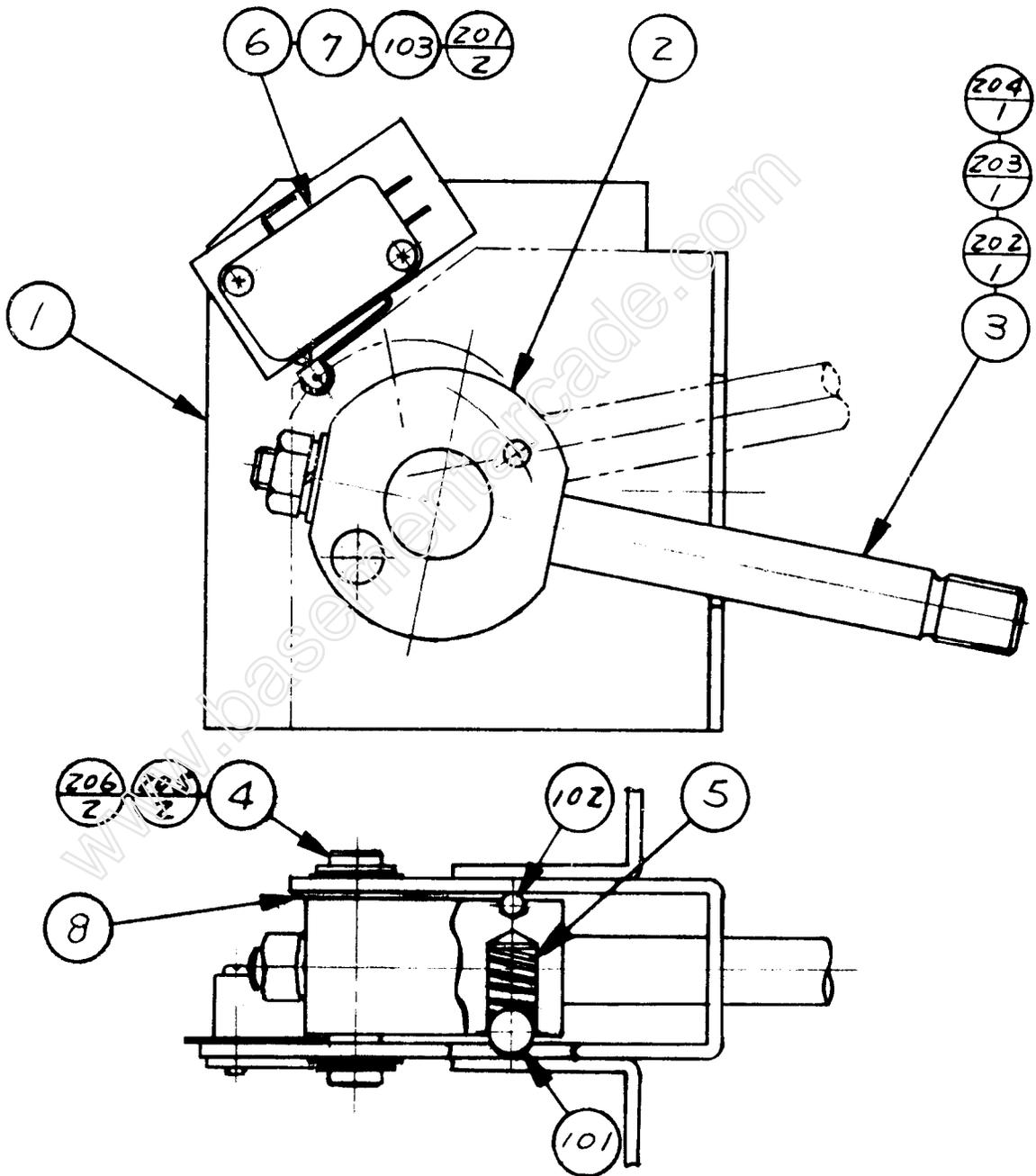
www.basementarcade.com

Front Panel and Handle Unit Upright 20'' & 16'' 834-0088



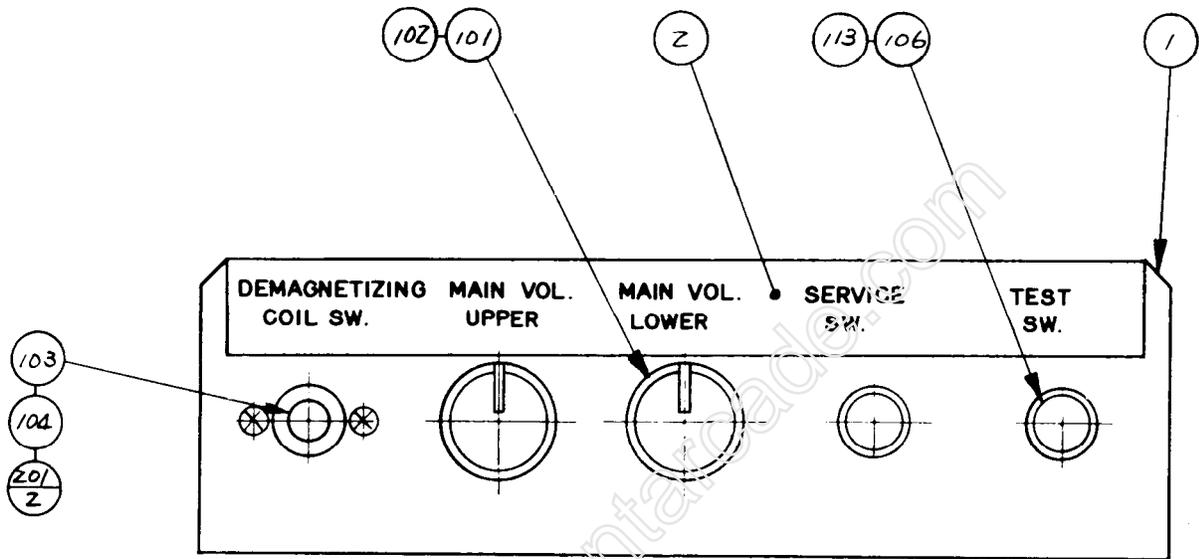
<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
1	105-1261	1	Bracket
2	106-0058	1	Disc
3	112-0018	1	Shift Lever
4	123-0068	1	Shaft
5	125-0100	1	Compression Spring
6	117-0141	1	Lock Plate
7	601-0126	1	Paper Insulator
8	280-0221	1	Nylon Washer, Special 8.5 - 14 x 1
101	101-0011	1	Steel Ball, 7.1438 (NSK)
102	101-0010	1	Steel Ball, NSK 3.968
103	509-0048	1	Switch, Micro Type (Yamatake V3L-5104-S)
201		2	M. Screw P.H. Phill, 150 M3 x 16
202		1	Hex Nut, M6
203		1	Spring Washer M6 (#2)
204		1	F. Wahser M6
205		2	F. Wahser, Special 8.3 - 14.3 x 0.5
206		2	E. Washer 6mm

Transmission Assy Upright 20" & 16"
834-0137



<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
1	105-0249	1	Control Bracket
2	420-0680	1	Sticker, Control Instructions
3	834-0095	1	Assy Harness Volume (DU)
4	834-0094	1	Assy Harness Demagnetizing SW (DU)
101	601-0042	2	Knob, 22mm (Sato K-2195)
102	220-0111	2	Volume Control, B-250HM (Tsubame 247N)
103	601-0444	1	C&R Combination Element, (Matsushita Denki ECQ-J0186A)
104	240-0105	1	Push Button Switch, IM, W/O Button (Matsushita 9932R)
105	240-0106	1	Push Button, Ivory, 8 Ø (Toko 470-010-01-10)
106	509-0132	2	Push Button Switch, 2T (NKK SB-61B)
107	211-0035	1	Conn Plug AMP 2P Brown (AMP 1-480698-1)
108	211-0098	1	Conn Plug AMP 3P Orange (AMP 1-480700-3)
109	211-0106	1	Conn Plug AMP 9P Red (AMP 1-480706-2)
110	211-0084	1	Conn CAP AMP 9P Brown (AMP 1-480707-1)
111	211-0041	14	Conn Pin AMP (AMP 350687-1)
112	211-0042	9	Conn Socket AMP (AMP 350536-1)
113		2	Switch Stopper, 12 Ø (NKK BP-4002)
201		2	M. Screw, P.H. Phil, ISO. W/S Washer M3X6

Control Unit Upright 20" & 16"
834-0105

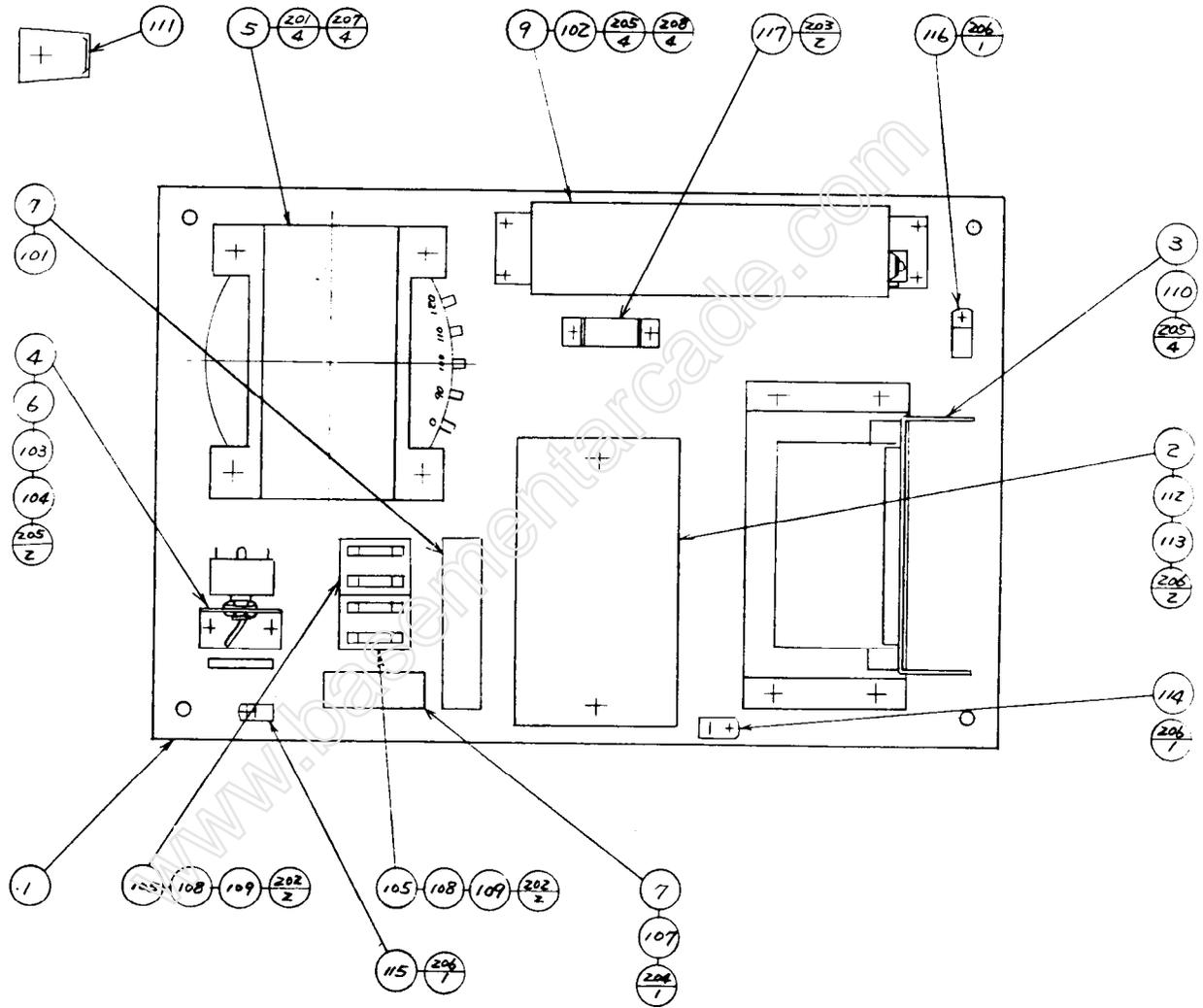


<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
1	102-0040	1	Base
2	834-0120	1	Assy Regulator Board
1 3	110-0019	1	Power Amplifier, DC32V, 16W
4	105-0171	1	Bracket (Use only domestic)
5	560-0071	1	Power Transformer, 90-240V
6		1	Sticker, 100V or 90V (Use only domestic)
7	421-5018	1	Fuse Instructions
8	834-0093	1	Wire Harness Assy. Power (D.U.)
9	105-0248	2	Bracket
10	420-0679	2	Sticker, 120V
101		2	Staple, MAX #3
102	601-0692	1	Switching Regulator, AC 100V, 5V, 10A
103	509-0115	1	Switch Toggle, SP-DT, 15A (NKK S-2A)
104	509-0049	1	Switch Stopper, 12 \emptyset (NKK BP-4002)
105		2	Fuse Holder, 2P, 125V-10A (Sato-F2)
106	514-0045	1	Fuse Holder, W/Cover, 250V-10A
107	514-0034	1	Fuse, 5A 6.4 \emptyset X 30 mm
108	514-0040	3	Fuse, 4A
109	514-0036	1	Fuse, 3A 6.4 \emptyset X 30 mm
110	601-0458	5	Terminal Lug, Round, 1.0.5 (AMP 170011-2)
111		1	Accord Connector Body, Flat Type, 125V-15
112	280-0297	1	One Touch Bush (Shinagawa Shoko NB-400)
113	601-0485	1	One Touch Collar, 1=10 (Shinagawa Shoko NA-410)

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
122	211-0116	3	Conn Cap Amp 2P Orange (Amp 1-480699-3)
123	211-0117	1	Conn Cap Amp 2P Yellow (Amp 1-480699-4)
124	211-0049	1	Conn Cap Amp 15P White (Amp 1-480711-0)
125	211-0120	1	Conn Cap Amp 3P Yellow (Amp 1-480701-4)
126	211-0082	1	Conn Cap Amp 4P Brown (Amp 1-480703-1)
127	211-0125	1	Conn Cap Amp 6P Orange (Amp 1-480705-3)
128	211-0089	1	Conn Plug Amp 9P Brown (Amp 1-480706-1)
201		4	M. Screw, P.H. Phill, ISO, W/F and Spring Washer M5X4
202		4	Wood Screw, R.H. Phill, W/F Washer 3.1X13
203		4	Wood Screw, R.H. Phill 3.1X16
204		1	Wood Screw, R.H. Phill, 3.1X20
205		13	Wood Screw, R.H. Phill, W/F. Washer 3.5X13
206		2	Wood Screw, R.H. Phill 3.5X25
207		4	T-Nut, ISO M5
208		4	M.Screw, P.H. Phill, ISO, W/S Washer M4X8

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
114	280-0400	1	Clamp, Cord, Plastic, 5 mm I.D.
115	280-0399	1	Clamp, Cord, Plastic, 6 mm I.D.
116	280-0398	1	Clamp, Cord, Plastic, 10 mm I.D.
117	481-0064	1	Diode Bridge 410Y (NIHON INTER.)
118	211-0041	12	Conn Pin AMP (AMP 350687-1)
119	211-0042	42	Conn Socket AMP (AMP 350536-1)
120	211-0097	1	Conn Plug AMP 3P RED (AMP 1-480700-2)
121	211-0080	1	Conn Cap AMP 2P Brown (AMP 1-480699-1)
122	211-0115	2	Conn CAP AMP 2P Red (AMP 1-480699-2)

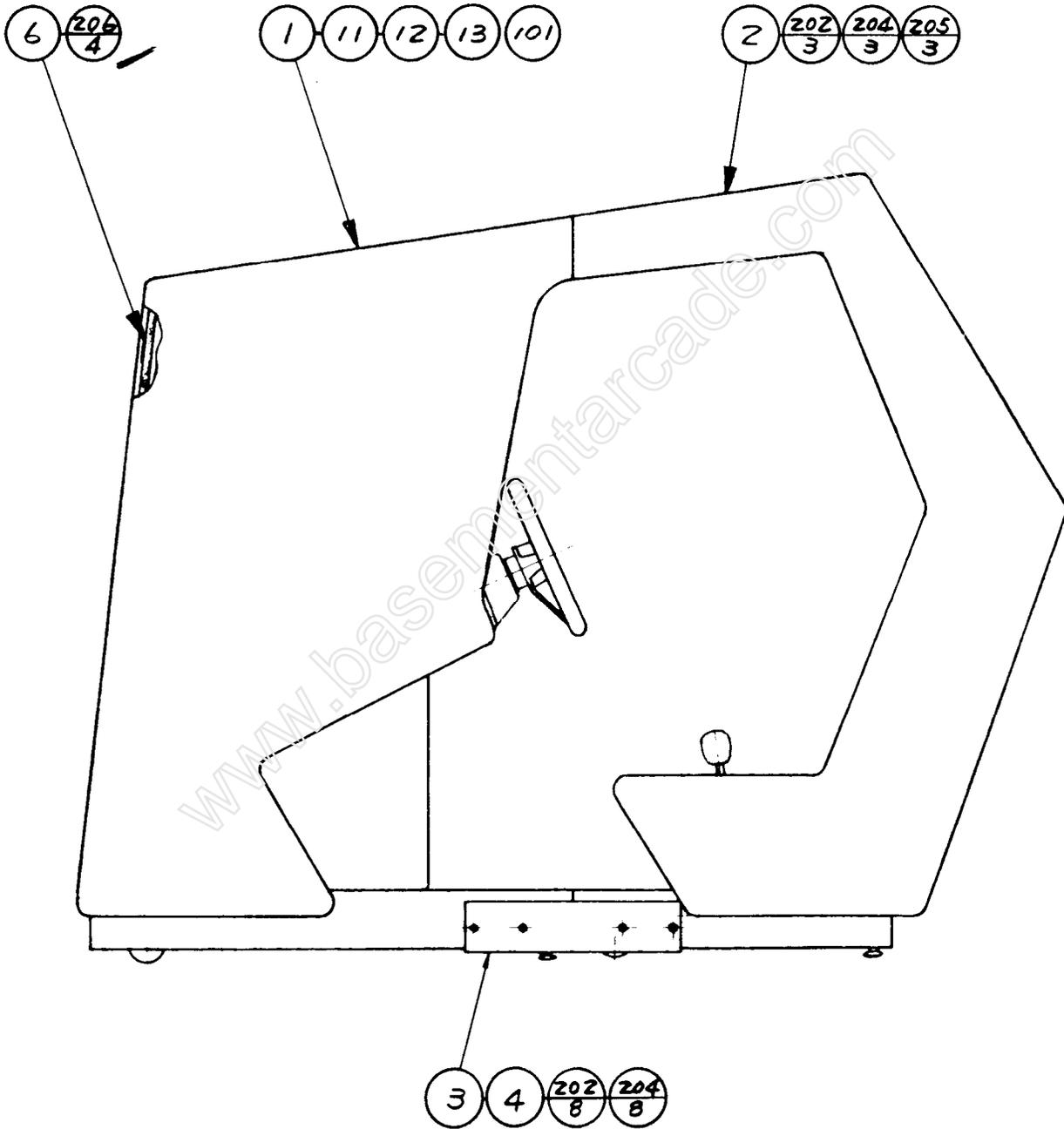
Power Supply Assy Upright 20'' & 16'' 834-0092



<u>ITEM NO.</u>	<u>QTY. REQ'D</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
1	1	834-0108	Front Cabinet Accessory Assy.
2	1	834-0140	Rear Cabinet Accessory Assy.
3	4	117-0183	Nut Plate
4	2	105-0258	Connecting Bracket
5	2		Shipping Board
6	1		Name Plate, Electrical Specification
7	1		Sticker Service Instruction
8	2		Sticker, A an L
9	1		Sticker, Danger High Voltage
10	1		Sticker, Service Instruction
11	1	834-0109	Assy. IC Board, Turbo
12	1	834-0123	Assy. Sound Board, Turbo
13	1	421-5020	Adjustment Instructions Sheet, Turbo
14	2		Polyethylene Cover, 750 X 950 X 1400
15	1	834-0134	Lug & Cable Assy, Earth
16	2	220-0097	Key, Master "XA-1040"

<u>ITEM NO.</u>	<u>QTY. REQ'D</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
101	4		Staple, Max #3
102	7		Terminal Lug, Round, I.D. 5 (AMP 170011-2)
201	8		Hex, Bolt M8 X 30
202	3		Hex, Bolt Mx X 35
203	8		Wood Screw, R.H. Phill. 3.5 X 16
204	11		Spring Washer M8 (#2)
205	3		F. Washer, Special 8.2-30 X 2
206	4		Screw Nail, Thin H., Stainless 1.5 X 16
207	4		Hex, Bolt M8 X 40
208	2		Hex, Nut M8 (Shipping)
209	6		F. Washer, Special 8.2-30 X ?

Turbo Complete Assy Cockpit
734-0049



<u>ITEM NO.</u>	<u>QTY. REQ'D</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
1	1	140-0070	Front Wooden Cabinet
2	1	834-0076	Steel Box Assy.
3	1	601-0711	Back Door, Front
4	1	601-0712	Window Panel, Turbo, Cockpit
5	1	105-0254	Coin Meter Bracket
6	1	117-0182	Speaker Guard Plate
7	1	601-0713	Floor Mat
8	1	601-0714	Protector, Right
9	1	601-0715	Protector, Left
10	2	105-0255	Bracket, A
11	2	105-0256	Bracket, B
12	1	105-0257	Cover Bracket
13	1	601-0716	Play Instructions Sheet, Turbo, Cockpit
14	2	105-0246	Mounting Bracket
15	1	834-0106	Accelerator Mechanism Assy.
16	1	834-0075	Front Panel & Handle Assy.
17	1	834-0124	Score Board Assy. Cockpit
18	1	400-0010	Power Supply Unit
19	2	105-0174	Bracket
20	2	105-0192	Fan Bracket
21	1	117-0123	Guard Plate
22	1		Cable Duct, B
23	1	601-0503	Protector, A
24	1	601-0556	Accelerator Pedal Assy.
25	1	140-0062	Cover

<u>ITEM NO.</u>	<u>QTY. REQ'D</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
26	2	105-0166	Leg Adjuster Bracket
27	1	105-0064	Main Switch Bracket
28	1	220-0097	Ace Cylinder Lock, L.S. Type, Master, W/O Key
29	1	601-0066	Locking Tongue
30	1	601-0687	Net
31	4	601-0097	Air Vent
32	2	601-0311	Leg Adjustor
33	1	117-0062	Lock Retainer Plate
34	2		Shipping Bracket Assy.

<u>ITEM NO.</u>	<u>QTY. REQ'D</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
35	1		Sticker, Coin Meter
36	1		Sticker, Earth
37	1	420-0683	Sticker, Dainger High Voltage
38	1		Sticker, Main SW. Push on Push Off
39	1		Sticker, Service Instruction
40	1	200-0039	Color Display Assy. 20 Type 100V (NANA0 MC-2000-S)
41	1	834-0125	Cable & Plug Assy.
42	10		Harness Lug
43	1	834-0126	Wire Harness Assy. AC (DU)
44	1	834-0127	Wire Harness Assy. POWER (DU)
45	1	834-0128	Wire Harness Assy. I/O (DU)
46	1	834-0129	Wire Harness Assy, CRT (DU)
47	1	834-0130	Wire Harness Assy., Coin Meter (DU)
48	1	834-0131	Wire Harness Assy., Speaker (DU)
49	1	421-5005	Adjustment Instructions Sheet
50	1	600-0096	Assy. FEM & Flat Cable 26P (L=150)
51	1	600-0095A	Assy FEM & Flat Cable 50P (L=1100)
52	1	117-0063	Tongue Retainer Plate
101	10		Staple, Max #3
102	2	601-0391	Caster (Hammer Brand No. 440-R D=65 mm)
103	2	601-0506	Toggle Hook, Hook (Takigen C-139-1)

<u>ITEM NO.</u>	<u>QTY. REQ'D</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
104	1	509-0039	Switch, Push Button Type, Miyama DS-139
105	1		Terminal Plate, 1L3PA (IZAWA No. 8)
106	1		Outlet, AC Type (Yamato Denki "Santoku")
107	1	601-0718	Switch Stopper, 12 Ø (NKK BP-4002)
108	*4	209-0023	Closed End Connector, Solderless Type Capacity 1.04-2.63 Sq. (Nippon Tanshi (E-2-1))
109	1	130-0012	Speaker, 20 cm, 8 ohm, 10W (Matsushita Denki EAS 20P 86S)

<u>ITEM NO.</u>	<u>QTY. REQ'D</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
110	1	601-0444	C.&R., Combination Element, 0.1 uf & 120 ohm (Matsushita Denki EC2-J0186A)
111	1		Bushing, Strain Relief, 8.3 (Heyco SR-6N-4)
112	1	601-0458	Terminal Lug, Round, I.D. 5 (AMP 170011-2)
113	1	601-0430	Axial Flow Fan, AC100V, 50-60Hz, W/O Painting (Nihon Servo (T3B55A)
114	1	601-0429	Noise Filter, ACS50V, 4A (Tohoku Kinzoku MR-2043)
115	1		Terminal, Binding Post, Black (Sato T-65007AN) Type 12 m/m
116	1	601-0680	Magnet Counter, 6 Digits, DC 5V W/Lamp
117	1	481-0027	Diode S1 B01-02 (Fuji Denki)
118	30	211-0041	Conn Pin AMP (AMP 350687-1)
119	47	211-0042	Conn Socket AMP (AMP 350536-1)
120	1	211-0094	Conn Plug AMP 2P Red (AMP 1-480698-2)
121	1	211-0099	Conn Plug AMP 3P Yellow (AMP 1-480700-4)
122	1	211-0100	Conn Plug AMP 4P Red (AMP 1-480702-2)
123	1	211-0104	Conn Plug AMP 6P Orange (AMP 1-480704-3)
124	1	211-0048	Conn Plug AMP 15P White (AMP 1-480710-0)
125	1	211-0044	Conn CAP AMP 2P White (AMP 1-480699-0)
126	1	211-0117	Conn Cap AMP 2P Yellow (AMP 1-480699-4)

<u>ITEM NO.</u>	<u>QTY. REQ'D</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
127	1	211-0060	Conn Cap AMP 3P White (AMP 1-480701-0)
128	1	211-0081	Conn Cap AMP 3P Brown (AMP 1-480701-1)
129	1	211-0118	Conn Cap AMP 3P Red (AMP 1-480701-2)
130	1	211-0119	Conn Cap AMP 3P Orange (AMP 1-480701-3)
131	1	211-0082	Conn Cap AMP 4P Brown (AMP 1-480703-1)
132	2	211-0121	Conn Cap AMP 4P Red (AMP 1-480703-2)
133	1	211-0122	Conn Cap AMP 4P Orange (AMP 1-480703-3)
134	1	211-0046	Conn Cap AMP 6P White (AMP 1-480705-0)
135	1	211-0127	Conn Cap AMP 9P Red (AMP 1-480707-2)
136	4	211-0158	Conn FEM Insul Disp 6 Pin (S-97566-1)
137	2	211-0159	Conn FEM Insul Disp 12 Pin (S-96302-1)
138	1	211-0160	Conn FEM Insul Disp 18 Pin
139	1		Conn FEM Insul Disp 4 Pin
140	*70	211-0005	Conn Crimp Lock (S-96305)
141	* 8		Hole Peg. for Socket (Molex 2560-1)

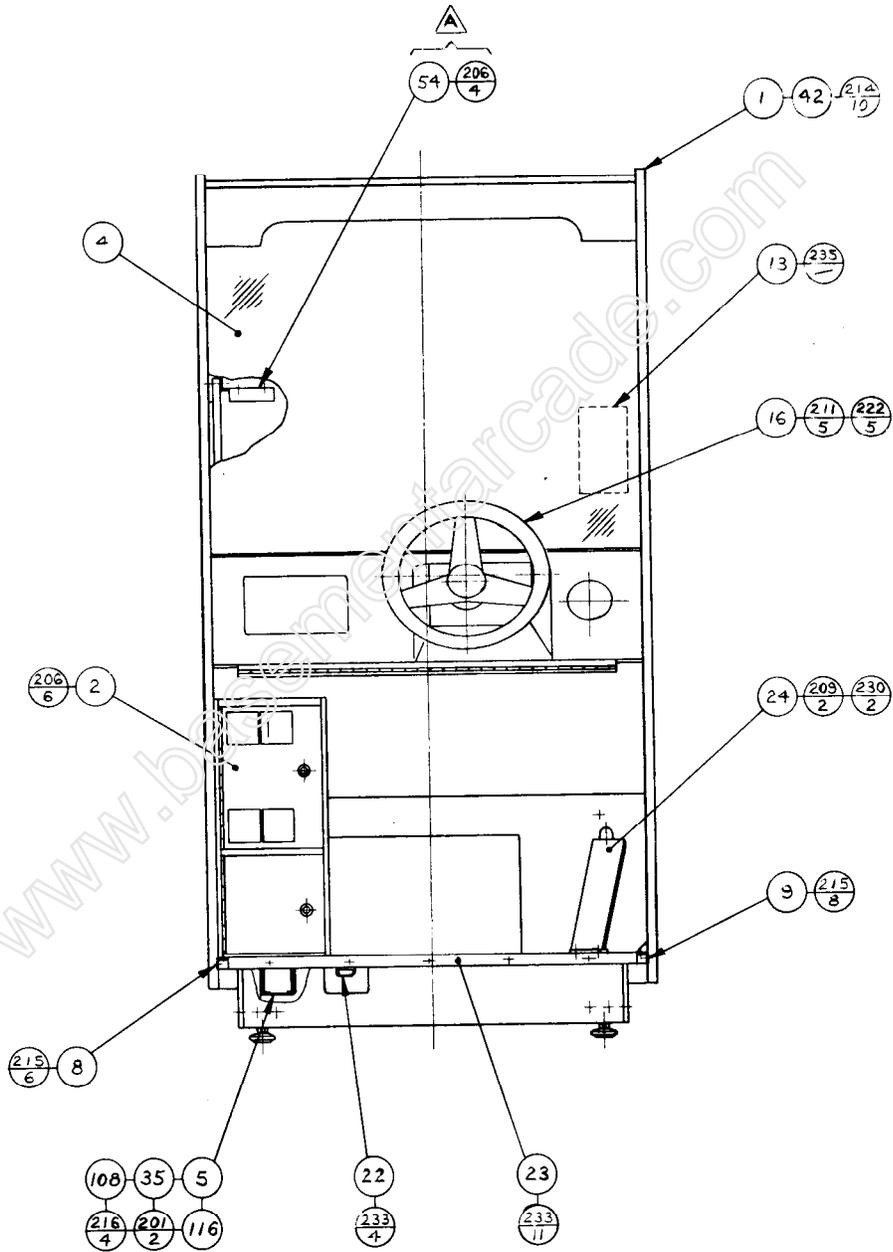
<u>ITEM NO.</u>	<u>QTY. REQ'D,</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
201	6		M. Screw, P.H. Phill., ISO W/F & S. Washer M3X10
202	8		M.Screw, F.H. Phill, ISO M4X6
203	5	111-1032	M.Screw, T.H. ZMC 3, Black, ISO M4X18
204	1	111-1010	M. Screw, P.H. Phill, ZMC3, Black, ISO M4X30
205	16		M. Screw, P.H. Phill, ISO, W/F & S. Washer M5X10
206	14		M. Screw, P.H. Phill., ISO, W/F & S. Washer M5X16
207	4		M. Screw, F.M. Phill., ISO M5X16
208	4		M. Screw, P.H. Phill, ISO M5X20
209	2		M. Screw, P.H. Phill, ISO M5X25
210	6		M. Screw, P.H. Phill, ISO M5X35
211	29		Carriage Bolt, ZMC 3, Black Special, ISO M4X25
212	2		Carriage Bolt, ZMC3, Black, Special ISO M5X25
213	8		Hex. Bolt M6X55
214	13		Wood Screw, R.H. Phill., W/F Washer 3.1X13
215	14		Wood Screw, O.M. Phill, Chromed 3.1X13
216	4		Wood Screw, R.H. Phill 3.5X10
217	8		Wood Screw, R.H. Phill W/F Washer 3.5X13

<u>ITEM NO.</u>	<u>QTY. REQ'D</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
218	14		Wood Screw, R.H. Phill, W/F Washer 3.5X16
219	2		Wood Screw, R.H. Phill 3.5X16
220	4		Wood Screw, R.H. Phill 3.5X20
221	1		T-Nut, ISO M4
222	29		Flange Nut, ISO, Serrated Type M4 (O.D=10 Ø)
223	2		Flange Nut, ISO, Serrated Type M5 (O.D = 11 Ø)
224	2		Hex. Nut 3/8-16
225	4		Flat Washer M4
226	1		Flat Washer, ZMC3, Black M4
227	8		Flat Washer M5

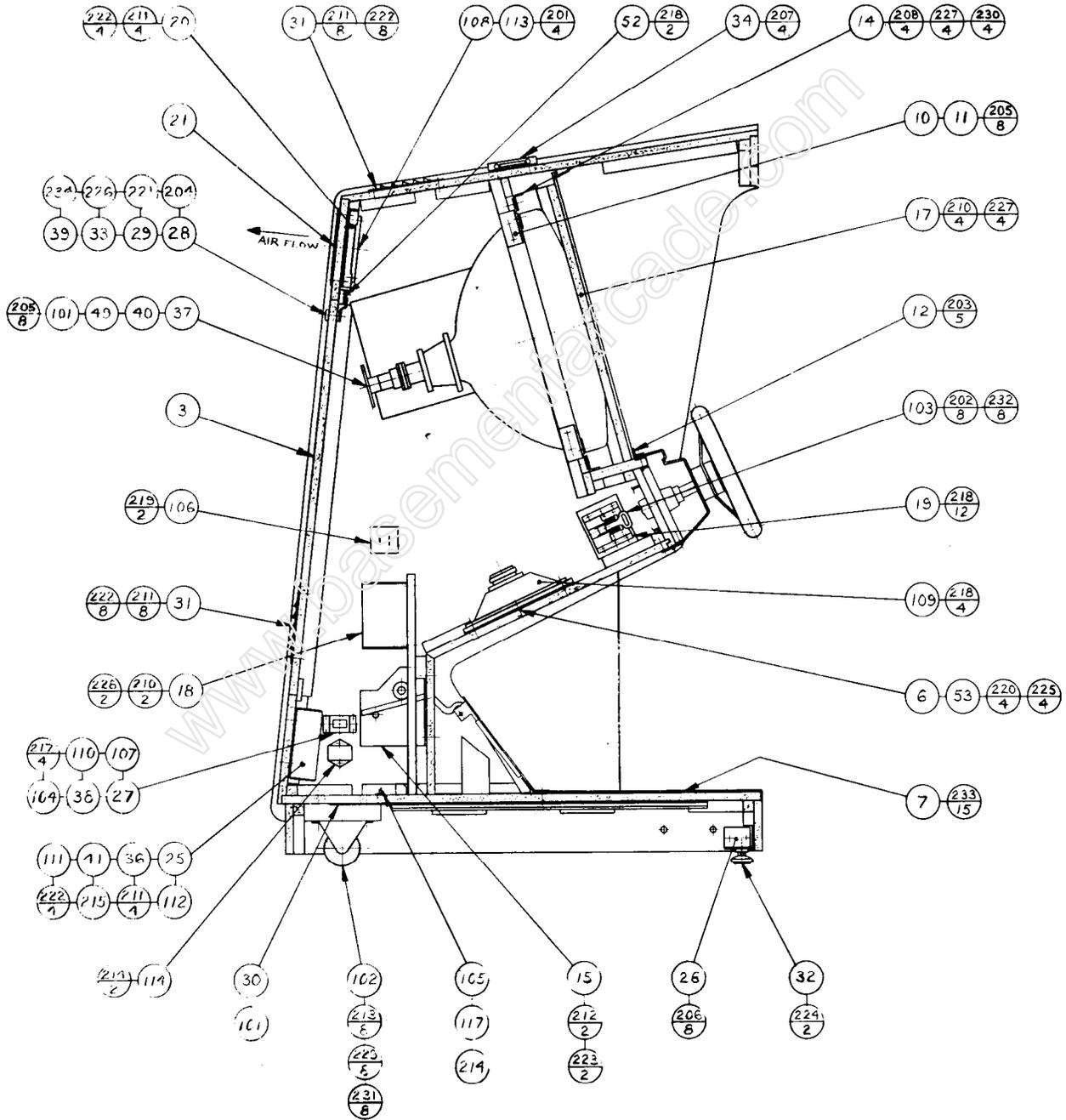
<u>ITEM NO.</u>	<u>QTY. REQ'D.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
228	2		Flat Washer, Special 5.5-20X1.6
229	8		Flat Washer 6.5-19X1.2
230	6		Spring Washer M5 (#2)
231	8		Spring Washer M6 (#2)
232	8		Lock Washer, Counter Sunk, Ext. M4
233	30		Screw Nail, Thin H., Stainless 1.5X16
234	1		Steel Nail, Large Head (Hirabyo) 1.6X10
235	100mm		Cellulose Tape, 18mm X 35 m/Roll (Nichiban No. 405)

Front Cabinet Accessory Assy Cockpit

834-0108



Front Cabinet Accessory Assy Cockpit 834-0108



REAR CABINET ACCESSORY ASSY. - COCKPIT MODEL

DRAWING NUMBER 834-0140

<u>ITEM NO.</u>	<u>QTY. REQ'D</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
1	1	140-0069	Rear Wooden Cabinet
2	1	601-0702	Back Door
3	1	601-0703	Floor Mat
4	1	601-0704	Protector, Left
5	1	601-0705	Protector, Right
6	2	117-0181	Guard Plate
7	1	601-0706	Hood
8	1	601-0707	Ornament Frame, A
9	1	601-0708	Ornament Frame, B
10	1		Cable Cover
11	1		Sticker, Turbo
12	1	253-0251	Plastic Seat
13	2	105-0166	Leg Adjuster Bracket
14	1	601-0503	Protector, A
15	2	105-0161	Shipping Bracket Assy.
16	2	601-0455	Led Adjuster
17	1	834-0117	Wire Harness Assy. Extension (DU)
18	1	834-0118	Wire Harness, Transmission (DU)
19	1	834-0120	Wire Harness, Rear Speaker, L. (DU)
20	1	834-0121	Wire Harness, Rear Speaker R (DU)
21	1	834-0122	Wire Harness Assy. Rear Speaker 30mm (DU)
22	5		Harness Lug
23	1	601-0709	Door

<u>ITEM NO.</u>	<u>QTY. REQ'D</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
24	1	117-0179	H & L Display Plate
25	1	601-0710	Protector
26	1	834-0109	Shift Knob Assy.
■ 27	1	834-0141	Transmission Assy.
28	1	220-0097	Ace Cylinder Lock, L.S. Type, Master, W/O Key
29	1	601-0066	Locking Tongue
30	1	117-0062	Lock Retainer Plate
31	1		Spacer Board
32	1		Sticker, Service Instruction
33	1		Guard Plate
34	2		Stopper Bracket

REAR CABINET ACCESSORY ASSY. - COCKPIT MODEL

DRAWING NUMBER 834-0140

<u>ITEM NO.</u>	<u>QTY. REQ'D</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
101	2	601-0457	Caster, Nylon Wheel (Hammer Brank No. 440-N D=65mm)
102	2	130-0021	Speaker, 12cm, 4 ohm 5W (Sanyo ESP 531)
103	1	130-0023	Speaker, 30cm, 8 ohm 40W (Sanyo X30H043)
104	1	211-0044	Conn CAP AMP 2P White (AMP 1-480699-0)
105	1	211-0080	Conn CAP AMP 2P Brown (AMP 1-480699-1)
106	1	211-0115	Conn CAP AMP 2P Red (AMP 1-480699-2)
107	1	211-0043	Conn Plug AMP 2P White (AMP 1-480698-0)
108	1	211-0085	Conn Plug AMP 2P Brown (AMP 1-480698-1)
109	1	211-0094	Conn Plug AMP 2P Red (AMP 1-480698-2)
110	1	211-0096	Conn Plug AMP 2P Yellow (AMP 1-480698-4)
111	1	211-0103	Conn Plug AMP 6P Red (AMP 1-480704-2)
112	*14	211-0041	Conn Pin AMP (AMP 350687-1)
113	* 6	211-0042	Conn Socket AMP (AMP 350536-1)

<u>ITEM NO.</u>	<u>QTY. REQ'D</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
201	2		M.Screw, Oval H. Phill., Unichrome, ISO M3X14
202	8		M.Screw, Oval H. Phill., Unichrome, ISO M4X20
203	3		M.Screw, Truss H. Phill., Uni- chrome, ISO M4X20
204	3		M. Screw, Truss H. Phill., Unichrome, ISO M4X12
205	8		Hex, Bolt, ISO M5X30
206	8		Hex, Bolt M6X50
207	8		Set Screw, Hex. Socket, Head Cap Screw, ISO, Unbrako M5X30
208	6		Carriage Bolt, ZMC3, Black, Special. ISO M4X25
209	8		Carriage Bolt, ZMC3, Black, Special, ISO M5X25
210	6		Wood Screw, Oval H. Phill., Chromed 3.1X13
211	5		Wood Screw, R.H. Phill. 3.5X13
212	2		Hex, Nut, ISO M3
213	6		Flange Nut, ISO, Serrated Type M4(O.D. = 10 Ø)
214	8		Flange Nut, ISO, Serrated Type M5(O.D. = 11 Ø)
215	2		Hex, Nut 3/8-16
216	2		Spring Washer M3(#2)
217			Spring Washer M4(#2)
218	24		Spring Washer M5(#2)
219	8		Spring Washer M6(#2)
220	2		Flat Washer M3

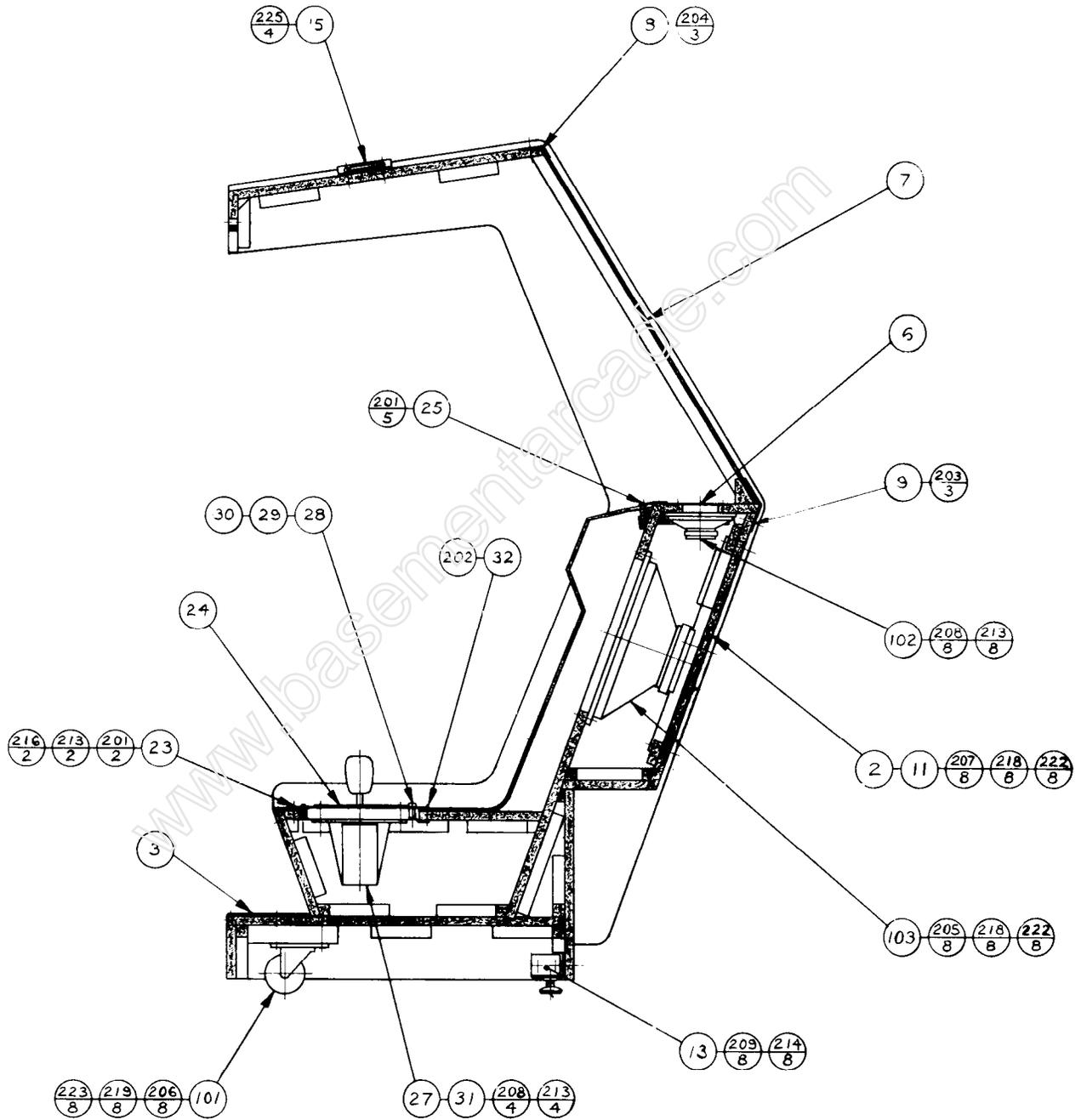
REAR CABINET ACCESSORY ASSY. - COCKPIT MODEL

DRAWING NUMBER 834-0140

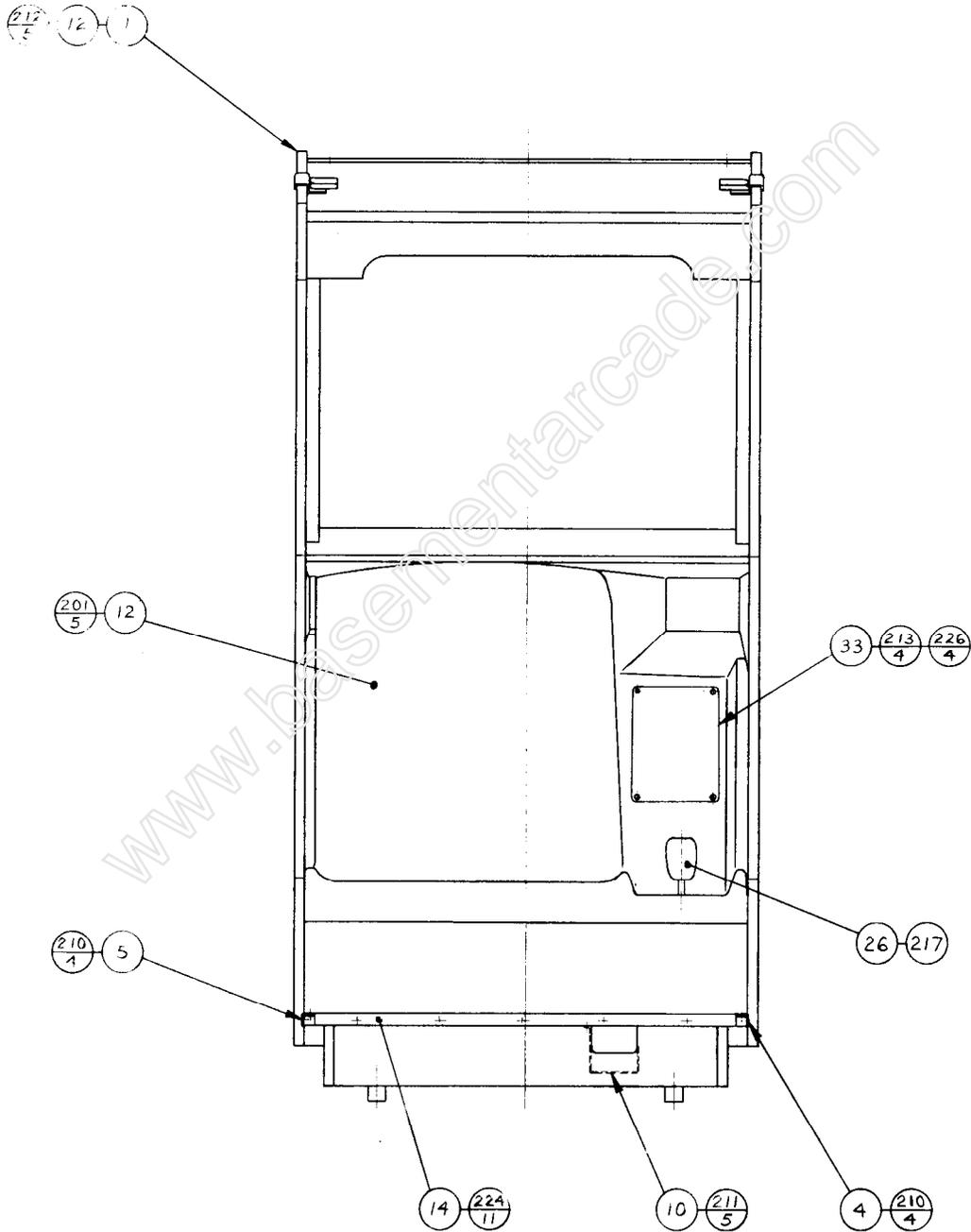
<u>ITEM NO.</u>	<u>QTY. REQ'D</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
221	8		Flat Washer M4
222	16		Flat Washer M5
223	8		Flat Washer M6
224	11		Screw, Nail, Thin H., Stainless 1.5X16
225	4		M. Screw, F.H. Phill., ISO M5X25

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Rear Cabinet Accessory Assy Cockpit 834-0140



Rear Cabinet Accessory Assy Cockpit 834-0140



<u>ITEM NO.</u>	<u>QTY. REQ'D</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
1	1	601-0667	Dashboard
2	1	102-0037	Wooden Base
3	1	105-0240	Bracket
4	1	117-0172	Tacho Meter Plate, Turbo
5	1	280-0387	Hinge, 589
6	1	105-0247	Handle Bracket
7	1	601-0689	Housing
8	1	123-0056	Steering Wheel Shaft
9	1	140-0065	Cover
10	1	601-0690	Lamp Holder Board
11	1	601-0691	Steering Handle Ornament
12	1	420-0678	Emblem, Turbo
13	1	117-0180	Start Button Plate
14	1	280-0390	Spacer Tube, 10
15	1	105-0168	Bracket
16	1	106-0055	Disc
17	1	601-0464	Spur Gear, 14T
18	1	601-0465	Spur Gear, 60T
19	1	109-0048	Holder, C
20	1	834-0117	Assy. Tacho Meter Board
21	1	834-0119	Assy. Sensor Board
22	4	280-0386	Spacer Tube, 12.5
23	1	834-0073	Wire Harness Assy. Front Panel, A (DU)
24	1	834-0072	Wire Harness Assy., Front Panel B (DU)

FRONT PANEL & HANDLE ASSY. - COCKPIT MODEL

DRAWING NUMBER 834-0075

<u>ITEM NO.</u>	<u>QTY. REQ'D</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
25	2		Hook
101	1	109-0043	Steering Handle, 260 Ø (Excel)
102	1	601-0972	Driving Meter (Paramount 540810-8)
103	1	509-0123	Push Button Switch, I.M. IB Illuminated Type, Red W/Socket (Mulon Mum-1ROR-B101)
104	1	390-0090	Lamp, 6V, 200 mA, Midget Grooved Type (Mulon MU0891)
105	1	390-0116	Lamp, Wedge Base Type, 14V, 0.24A Stanley BF-175-01250A)

FRONT PANEL & HANDLE ASSY. - COCKPIT MODEL

DRAWING NUMBER 834-0075

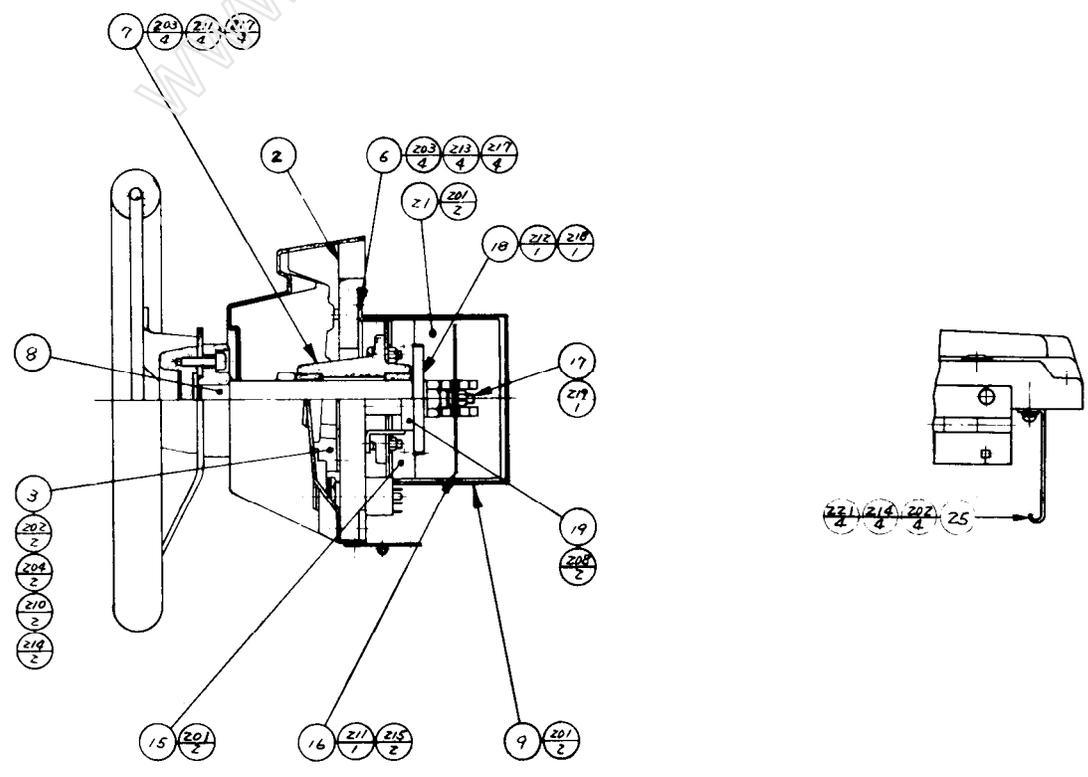
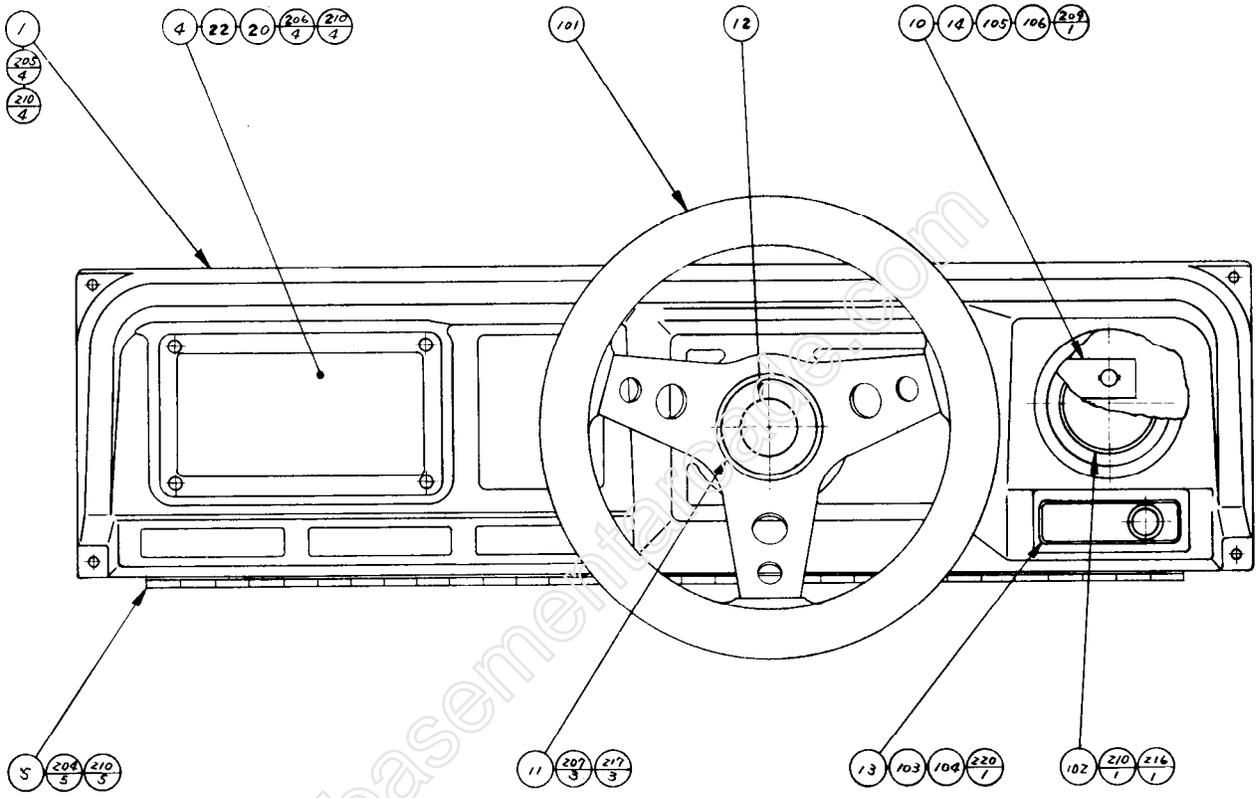
<u>ITEM NO.</u>	<u>QTY. REQ'D</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
106	1	834-0079	Wedge Base Socket Assy. (Stanley BF281-35100A)
107	2		Clamp, Cord, Plastic, 5mm I.D.
108	1	211-0095	Conn Plug AMP 2P Orange (AMP 1-480698-3)
109	1	211-0073	Conn Plug AMP 4P White (AMP 1-480702-0)
110	1	211-0087	Conn Plug AMP 4P Brown (AMP 1-480702-1)
111	1	211-0100	Conn Plug AMP 4P Red (AMP 1-480702-2)
112	1	211-0101	Conn Plug AMP 4P Orange (AMP 1-480702-3)
113	18	211-0041	Conn Pin AMP (AMP 350687-1)
201	4		M. Screw, P.H. Phill., ISO, W/F. & S. Washer M4X8
202	6		M. Screw, P.H. Phill, ISO, W/S. Washer
203	8		M. Screw, P.H. Phill., ISO M5X16
204	7	111-1015	Carriage Bolt, ZMC3, Black, Special, ISO M4X8
205	4	111-1031	Carriage Bolt, ZMC3, Black, Special, ISO M4X16
206	4		Carriage Bolt, ZMC3, Black, Special ISO M4X25
207	3	111-1033	Set Screw, Hex, Socket, H. Cap Screw, ISO, Unbrako M5X20
208	4		Wood Screw, R.H. Phill., W/F Washer 3.1X13
209	1		Wood Screw, R.H. Phill 3.1X20

FRONT PANEL & HANDLE ASSY. - COCKPIT MODEL

DRAWING NUMBER 834-0075

<u>ITEM NO.</u>	<u>QTY. REQ'D</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
210	16		Flange Nut, ISO, Serrated Type M4(O.D.=10 Ø)
211	5		Flange Nut, ISO, Serrated Type
212	1		Hex, Nut, ISO M10
213	4		T-Nut, ISO M5
214	6		F. Washer M4
215	2		F. Washer, Special 5.6-19.1X1.2
216	1		Spring Washer M4(#2)
217	11		Spring Washer M5(#2)
218	1		Spring Washer M10(#2)
219	1		E Washer 4mm
220	1		Hex, Nut, Special M18
221	4		T-Nut, ISO M4

Front Panel and Handle Assy Cockpit 834-0075



<u>ITEM</u>	<u>QTY.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
1	1	601-0668	Steel Box
2	1	220-0201	Coin Chute Door
3	1	220-0200	Cash Box Door
4	1	220-0199	Cash Box
5	1	117-0173	Switch Holder Plate
6	2	601-0717	Tongue
7	1	220-0097	Ace Cylinder Lock, L.S. Type
8			
9	2	280-0388	Locking Spacer
10	1	220-0136	Coin Chute, Rejector Type, ¥100
11	1		Sticker, Control Instructions
12	1	834-0135	Wire Harness Assy, Volume Control (DU)
13	1	834-0133	Wire Harness Assy, Demagnetizing Coil SW (DU)
14			
15	1	220-0136	Coin Mechanism Unit, Non Denomi, W/O F.Plate (Asahi Seiko Add-Ft)

<u>ITEM NO.</u>	<u>QTY. REQ'D</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
101	4	601-0042	Knob, 22 m/m (Sato K-2195)
102	2	601-0718	Switch Stopper, 12 Ø (NKK BP-4002)
103	4	220-0111	Volume Control, B-25K Ohm (Tsubame Z47N)
104	2	280-0297	One Touch Bush (Shinagawa Shoko NB-400)
105	2	601-0719	One Touch Collar, l=7.5 (Shinagawa Shoko NA-407)
106	1	601-0444	C.&R. Combination Element, 0.1 UF&120 Ohm (Matsushita Denki) (ECO-J0186A)
107	1	240-0105	Push Button Switch, 1M, W/O Button (Matsushita 9932R)
108	1	240-0106	Push Button, Ivory, 8 Ø (Toko 470-010-01-10)
109	2	509-0113	Push Button Switch, 2T. (NKK SB-61B)
110	17	211-0041	Conn Pin AMP (AMP 350536-1)
111	9	211-0042	Conn Socket AMP (AMP 350536-1)
112	1	211-0085	Conn Plug AMP 2P Brown (AMP 1-480698-1)
113	1	211-0086	Conn Plug AMP 3P Brown (AMP 1-480700-1)
114	1	211-0098	Conn Plug AMP 3P Orange (AMP 1-480700-3)
115	1	211-0106	Conn Plug AMP 9P Red (AMP 1-480706-2)
116	1	211-0084	Conn CAP AMP 9P Brown (AMP 1-480707-1)
201	9		M.Screw, P.H. Phill., ISO, W/S Washer M3 X 6

STEEL BOX ASSY. - COCKPIT

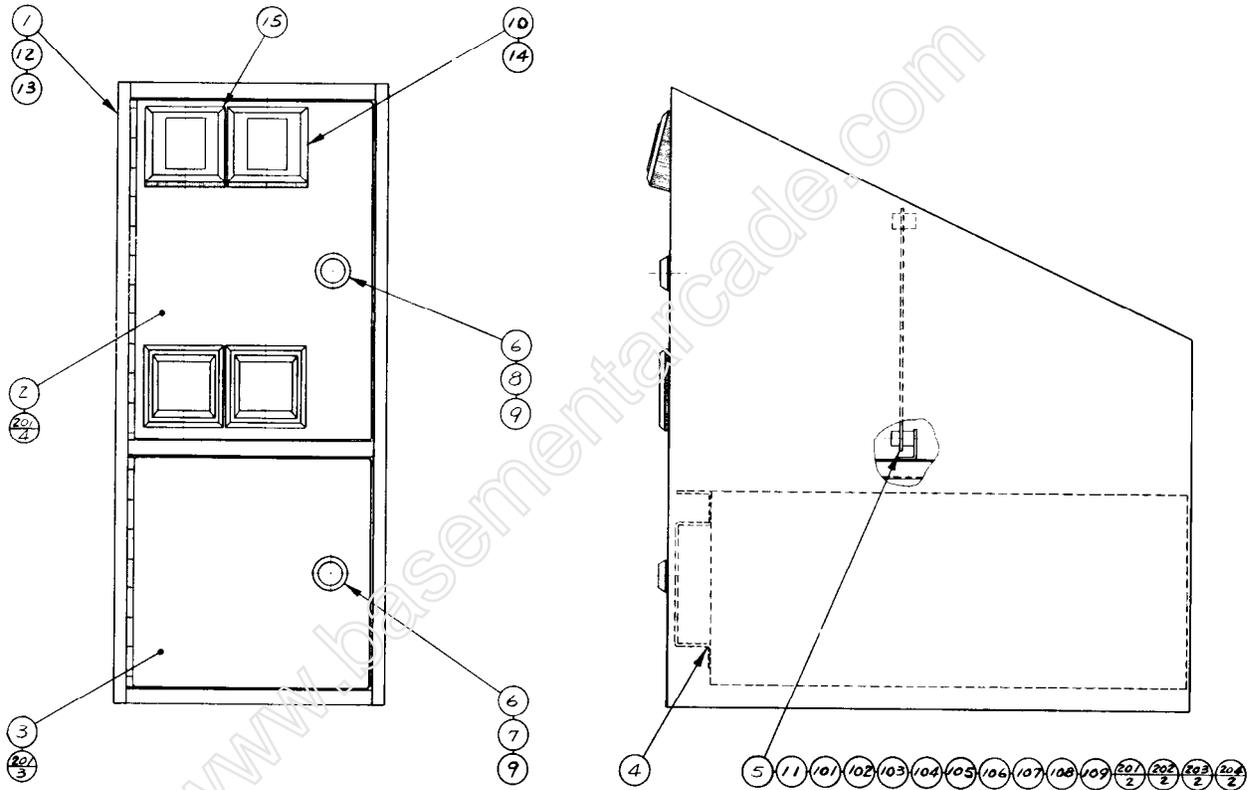
DRAWING NUMBER 834-0076

<u>ITEM NO.</u>	<u>QTY. REQ'D</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
202	2		M.Screw, P.H. Phill., ISO M3 X 16
203	2		Flat Washer M3
204	2		Spring Washer M3 (#2)

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Steel Box Assy—Cockpit

834-0076



POWER SUPPLY UNIT - COCKPIT MODEL

DRAWING NUMBER 400-0010

<u>ITEM NO.</u>	<u>QTY. REQ'D</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
1	1	102-0041	Base
3 2	2	110-0019	Power Amplifier, DC32V, 16W
3	1	105-0171	Bracket
4	1	834-0120	Assy. Regulator Board
5	1	560-0071	Power Transformer, 90-240V
6	1		Sticker, 100V or 90V
7	1	421-5019	Fuse Instructions
8	1	834-0132	Wire Harness Assy. Power (D.U.)
9	2	105-0248	Bracket
101	2		Staple, Max #2
102	1	601-0692	Switching Regulator, AC100V, 5V, 10A (Matsushita Denshi ETU-5J100)
103	1	509-0115	Switch, Toggle, SP-DT, 15A (NKK S-2A)
104	1	509-0049	Switch Stopper, 12 \emptyset (NKK BP-4002)
105	1	109-0047	Fuse Holder, 2P, 125V-10A (SATO F-2)
106	1	109-0049	Fuse Holder, 3P, 125V-10A (SATO F-2)
107	1	514-0045	Fuse Holder, W/Cover, 250V-10A (SATO No. 7101)
108	2	514-0036	Fuse, 3A 6.4 \emptyset X 30 mm
109	3	514-0040	Fuse, 4A, 6.4 \emptyset X 30 mm
110	1	514-0034	Fuse, 5A, 6.4 \emptyset X 30 mm
111	1	117-0069	Terminal Plate, 1L4P (IZAWA No. 8)
112	1	600-0097	AC Cord, Connector Body, Flat Type 125V-15A)(Toshiba DH7112 or ETC)

<u>ITEM NO.</u>	<u>QTY. REQ'D</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
113	6		Terminal Lug, Round, I.D. 5 (AMP 170011-2)
114	2	280-0297	One Touch Bush (Shinagawa Shoko NB-400)
115	2	601-0719	One Touch Collar, I=7.5 (Shinagawa Shoko NA-407)
116	1	280-0400	Clamp, Cord, Plastic, 5 mm I.D.
117	1	280-0399	Clamp, Cord, Plastic, 6 mm I.D.
118	1	280-0398	Clamp, Cord, Plastic, 10 mm I.D.
119	1	150-0189	CAP E 3300 MF 25V U-TYP
120	1	481-0064	Diode Bridge 4BIOY (Nihon Inter.)
121	1	481-0065	Diode Bridge SZBIO (Shindengen)

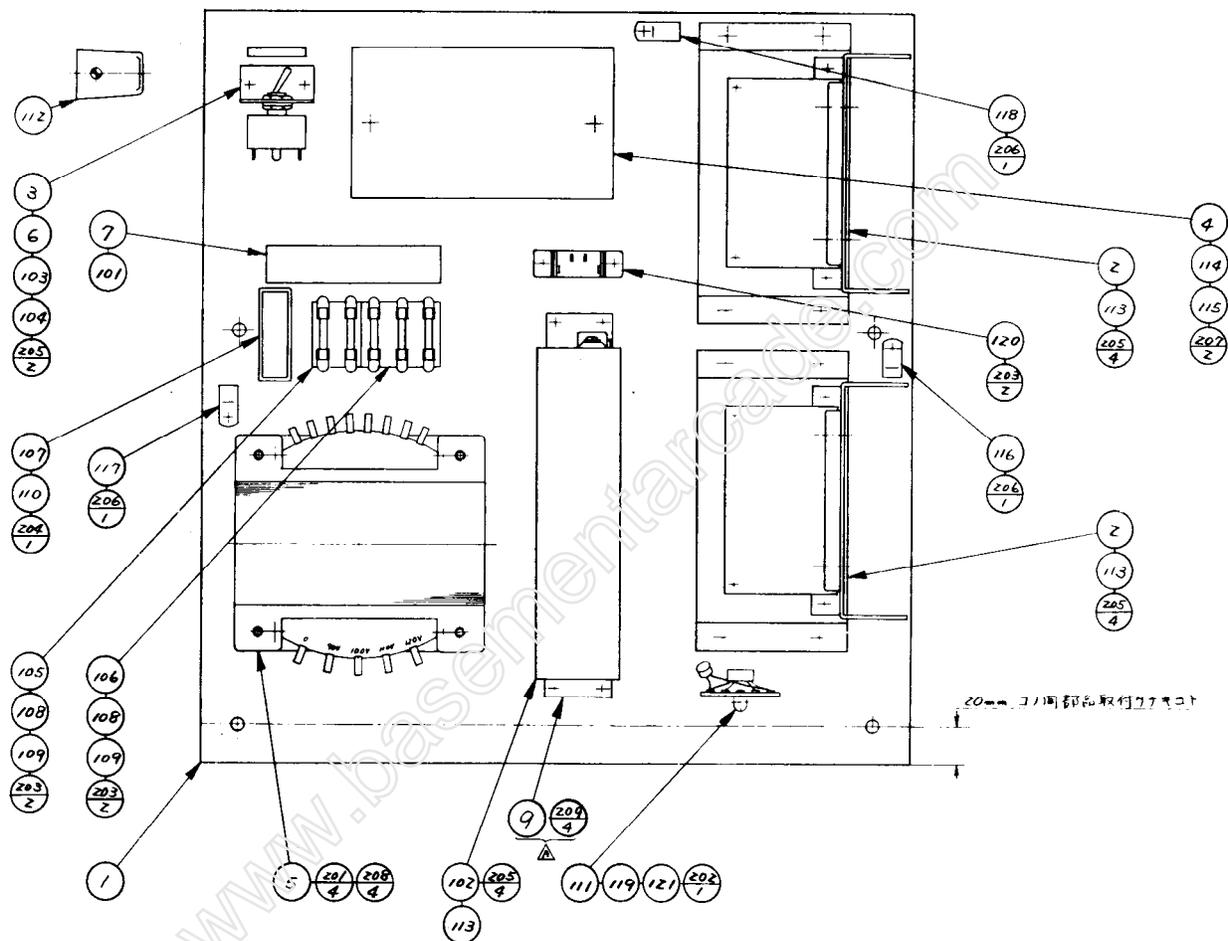
POWER SUPPLY UNIT - COCKPIT MODEL

DRAWING NUMBER 400-0010

<u>ITEM NO.</u>	<u>QTY. REQ'D</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
122	1	211-0080	Conn CAP AMP 2P Brown (AMP 1-480699-1)
123	1	211-0115	Conn CAP AMP 2P Red (AMP 1-480699-2)
124	2	211-0116	Conn CAP AMP 2P Orange (AMP 1-480699-3)
125	1	211-0117	Conn CAP AMP 2P Yellow (AMP 1-480699-4)
126	1	211-0120	Conn CAP AMP 3P Yellow (AMP 1-480701-4)
127	1	211-0072	Conn CAP AMP 4P White (AMP 1-480703-0)
128	1	211-0124	Conn CAP AMP 6P Red (AMP 1-480705-2)
129	1	211-0125	Conn CAP AMP 6P Orange (AMP 1-480705-3)
130	1	211-0049	Conn CAP AMP 15P White (AMP 1-480711-0)
131	1	211-0097	Conn Plug AMP 3P Red (AMP 1-480700-2)
132	1	211-0089	Conn Plug AMP 9P Brown (AMP 1-480706-1)
133	*12	211-0041	Conn Pin AMP (AMP 350687-1)
134	*44	211-0042	Conn Socket AMP (AMP 350536-1)
201	4		M. Screw, P.H. Phill., ISO W/F & Spring Washer M5X16
202	1		Wood Screw, R.H. Phill. 3.1X13
203	6		Wood Screw, R.H. Phill. 3.1X16
204	1		Wood Screw, R.H. Phill. 3.1X20

<u>ITEM NO.</u>	<u>QTY. REQ'D</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
205	14		Wood Screw, R.H. Phill. 3.5X13
206	3		Wood Screw, R.H. Phill. W/F Washer 3.5X16
207	2		Wood Screw, R.H. Phill. 3.5X25
208	4		T-Nut, ISO M5
209	4		M.Screw, P.H. Phill., ISO, W/Spring Washer M4X6

Power Supply Unit Cockpit 400-0010

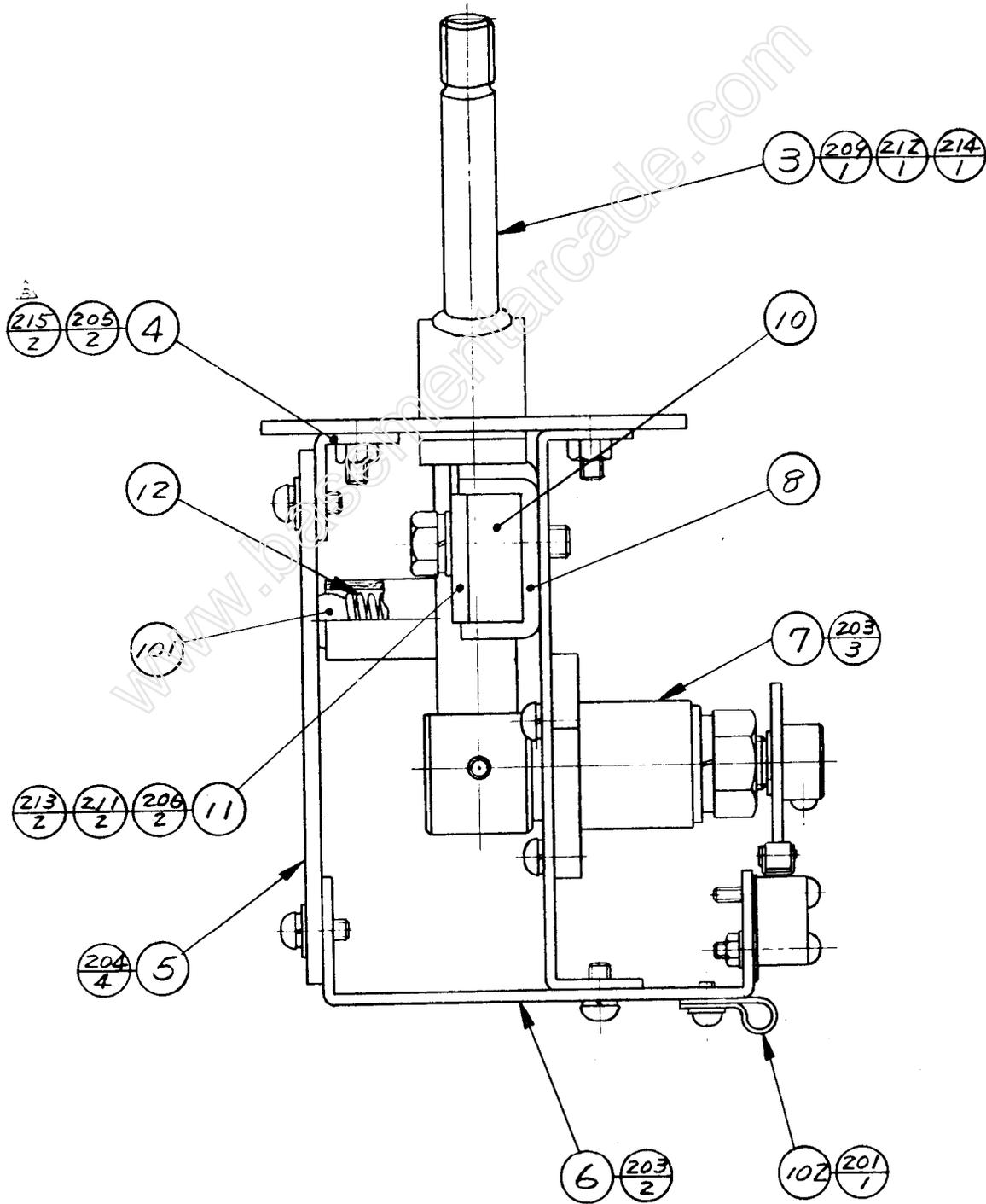


TRANSMISSION ASS'Y - COCKPIT

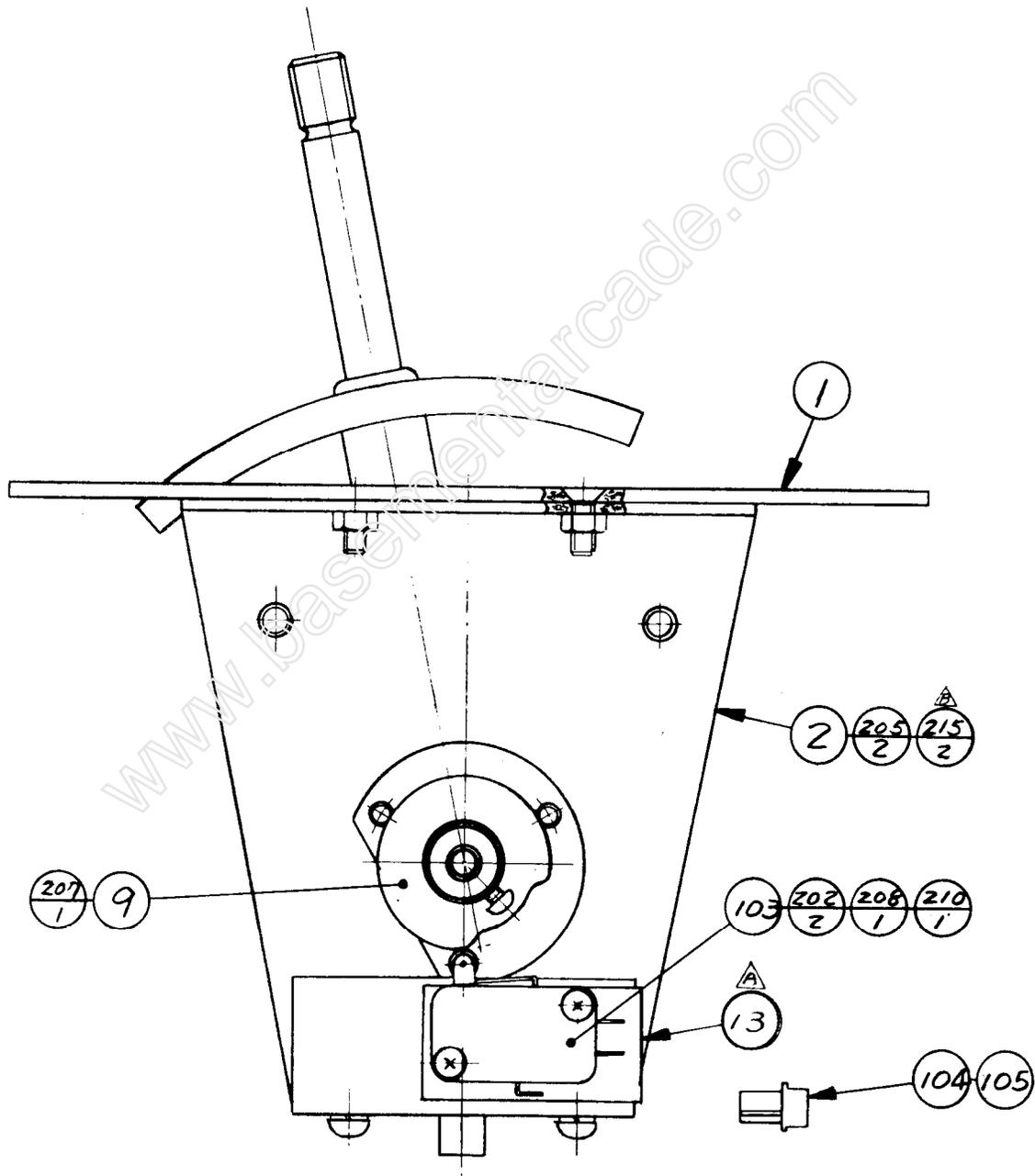
DRAWING NUMBER: 834-0141

<u>ITEM NUMBER</u>	<u>PART NUMBER</u>	<u>DISCRIPTION</u>
1	102-0009	Base
2	105-0067	Center Bracket
3		Handle Ass'y
4	105-0068	Bracket
5	117-0048	Stopper Plate
6	105-0069	End Bracket
7	109-0021	Handle Retainer
8	105-0099	Bumper Bracket
9	350-0027	Cam Ass'y
10	280-0126	Rubber Bumper
11	601-0333	Rubber Retainer
12	125-0016	Compression Spring
13	601-0126	Paper Insulator
101	101-0001	Steel Ball, 10.3188 ϕ (NSK)
102	509-0112	Switch Bracket
103	509-0036	Tilt Switch Ass'y, 1M
104	481-0027	Rectifier, Silicon Diode
105	212-0048	Plug, 12P, Natural Color

Transmission Assy—Cockpit 834-0141



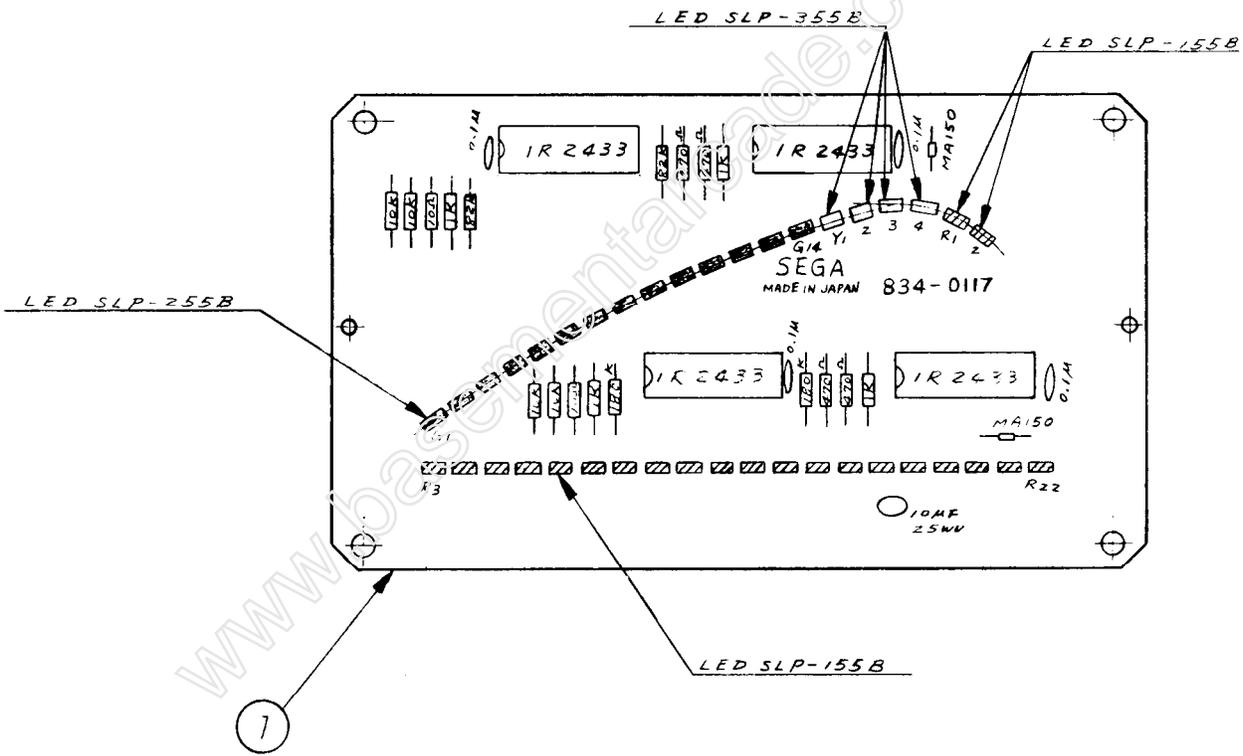
Transmission Assy—Cockpit
834-0141



<u>ITEM NO.</u>	<u>QTY. REQ'D</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
1	1	171-0061	Printed Board
101	22	390-0110	Led SLP-155B Red (Sanyo)
102	14	390-0111	Led SLP-255B Green (Sanyo)
103	4	390-0112	Led SLP-355B Yellow (Sanyo)
3 104	4	314-0258	IC IR2433 (Sharp)
105	2	470-0100	Res 10 Ohm 1/4W 5%
106	4	470-0102	Res 1K Ohm 1/4W 5%
107	4	470-0471	Res 470 Ohm 1/4W 5%
108	4	470-0103	Res 10K Ohm 1/4W 5%
109	2	470-0823	Res 82K Ohm 1/4W 5%
110	2	470-0184	Res 180K Ohm 1/4W 5%
111	4	151-0060	Cap Cer 0.1MF 16V AX
112	1	153-0001	Cap Tant 10MF 25V
113	2	481-0031	Diode MA150 (Matsushita Denshi)

Tacho Meter Board Assy Cockpit

834-0117

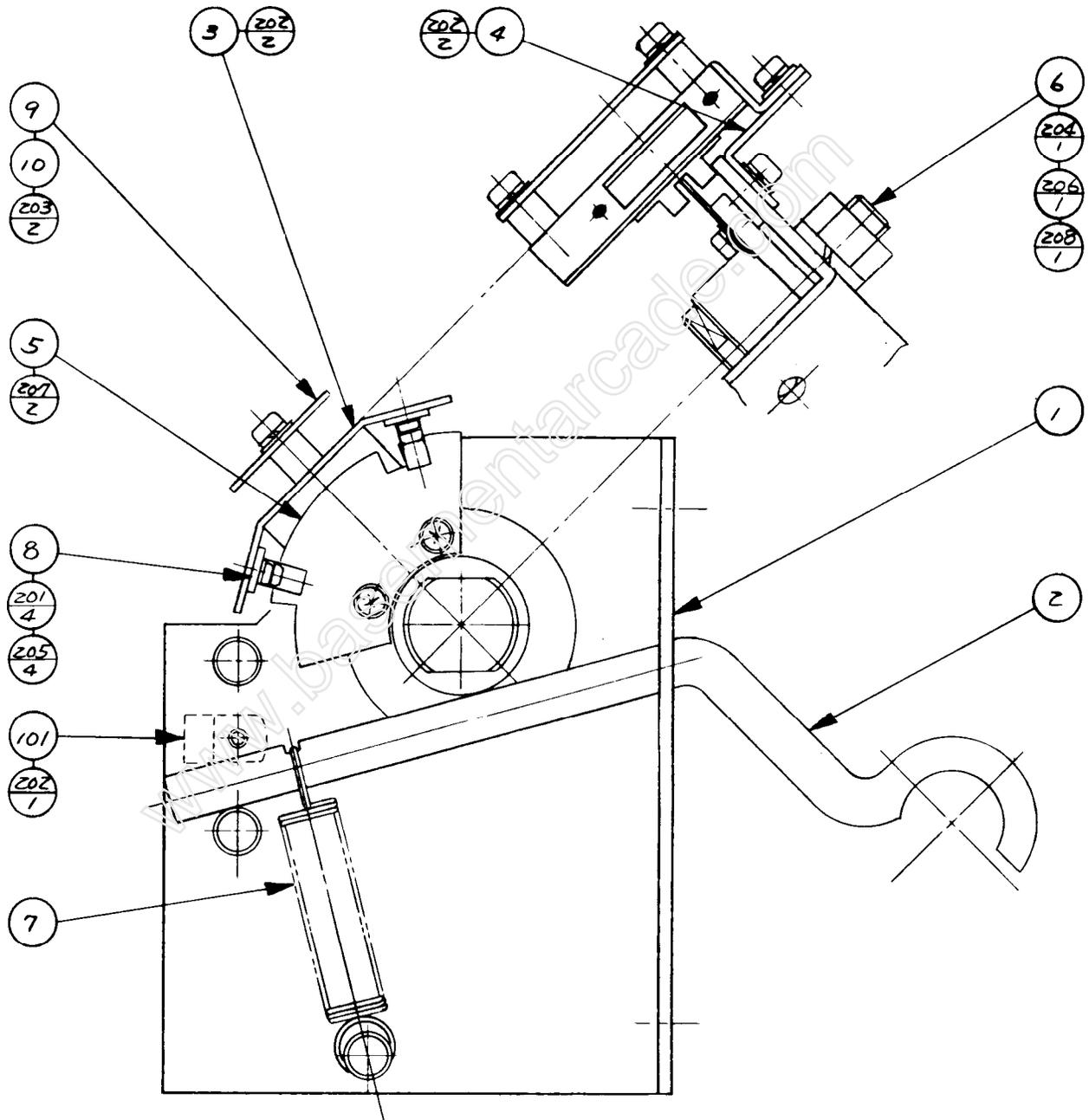


ACCELERATOR MECHANISM ASSY - UPRIGHT/COCKPIT

DRAWING NUMBER 834-0106

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
1	105-0252	1	Accelerator Bracket
2	123-0067	1	Accelerator Pedal Shaft
3	105-0251	1	Sensor Bracket
4	105-0250	1	Bracket
5	601-0695	1	Sensor Disc
6	280-0158	1	Shoulder Screw
7	125-0021	1	Extension Spring
8	601-0694	2	Coupler Unit
9	601-0701	1	Assy IC Board, Buffer
10	280-0396	2	Spacer Tube
101	280-0396	1	Clamp Cord, Plastic, 5mm I.D.
102	211-0045	1	Conn Plug Amp 6P White (Amp 1-480704-0)
103	211-0041	*6	Conn Pin Amp (Amp 350687-1)
201		4	M. Screw, P.H. Phill, ISO, W/S Washer M3X6
202		5	M. Screw, P.H. Phill, ISO, W/F & S. Washer M4X8
203		2	M. Screw, P.H. Phill, ISO, W/F & S Washer M4X16
204		1	Hex. Nut M10 (#3)
205		4	Flat Washer M3
206		1	Spring Washer M10 (#2)
207		2	M. Screw, P.H. ISO, W/S Washer M4X6
208		1	Flat Washer, Special 13,5-22.2X0.23

Accelerator Mechanism Assy Upright/Cockpit 834-0106



<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
1	171-0069	1	Score Board
2	601-0677	1	TV Mask, Graysmoke
3	601-0678	1	TV Mask, 20
4	601-0674	1	Mask, Score
5	601-0675	1	Mask, Best Five
6	601-0676	2	Lamp Holder Board
7	140-0064	2	Lamp Cover
8	280-0390	4	Spacer Tube, 10
9	834-0116	1	Assy Led 7SEG. Board
10	834-0078	1	Assy Harness Score Lamp
101	390-0116	4	Lamp, Wedge Base Type, 14V, 0.24A (Stanley BF175-01250A)
102	340-0079	4	Wedge Base Socket Assy (Stanley BF281-35100A).
103	211-0095	1	Conn Plug AMP 2P Orange (AMP 1-480698-3)
104	211-0041	2	Conn Pin AMP (AMP 350687-1)
201		4	M. Screw, P.H. Phill. ISO
202		4	M. Screw, P.H. Phill, W/F & S Washer
203		6	Wood Screw, F.H. Phill
204		6	T-Nut, ISO
205	280-0260	4	Hex. Nut, ISO
206		4	F. Washer

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
1	171-0068	1	Score Board
2	601-0677	1	TV Mask, Graysmoke
3	601-0678	1	TV Mask, 20
4	601-0674	1	Mask, Score
5	601-0675	1	Mask, Best Five
6	601-0676	4	Lamp Holder Board
7	140-0064	2	Lamp Cover
8	280-0390	4	Spacer Tube, 10
9	834-0116	1	Assy Led 7SEG. Board
10	834-0071	1	Wire Harness Ass'y Lamp
101	390-0116	8	Lamp, Wedge Base Type, 14V, 0.24A (Stanley BF175-01250A)
102	340-0073	8	Wedge Base Socket Assy (Stanley BF281-35100A).
103	211-0095	1	Conn Plug AMP 2P Orange (AMP 1-480698-3)
104	211-0041	*2	Conn Pin AMP (AMP 350687-1)
201		4	M. Screw, P.H. Phill. ISO
202		4	M. Screw, P.H. Phill, W/F & S Washer 3.1 x 13
203		6	Wood Screw, F.H. Phill
204		6	T-Nut, ISO
205	280-0260	4	Hex. Nut, ISO
206		4	F. Washer

SCORE BOARD ASS'Y UPRIGHT 16"

DRAWING NUMBER 834-0136

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
1	171-0075	1	Score Board 16"
2	601-0720	1	TV Mask, Gray Smoke 16"
3	601-0721	1	Color TV Mask 16"
4	601-0674	1	Mask Score
5	601-0675	1	Mask Best Five
6	601-0676	2	Lamp Holder Board
7	140-0064	2	Lamp Cover
8	280-0390	4	Spacer Tube, 10
9	834-0116	1	Ass'y Led 7SEG. Board
10	834-0078	1	Ass'y Harness Score Lamp
11		1	Lighting Cover
101	390-0116	4	Lamp Wedge Base Type 14v. 0. 24a (BF175-01250a)
102	834-0079	4	Wedge Base Socket Ass'y (Stanley BF281-35100a)
103	211-0095	1	Conn Plug AMP 2P Orange (AMP 1-480698-3)
104	211-0041	2	Conn Pin AMP(AMP 350687-1)
105		2	Insulator Tubing, Silicon Rubber Glass 9mm I.D. (Black) (Shinagawa Shoko)
201		4	M. Screw P.H. Phill 150 M3 x 18
202		6	M. Screw P.H. Phill 150 w/F&S Washer M4 x 16
203		6	Wood Screw F.H. Phill 3.1 x 13
204		6	T-Nut 150 M3

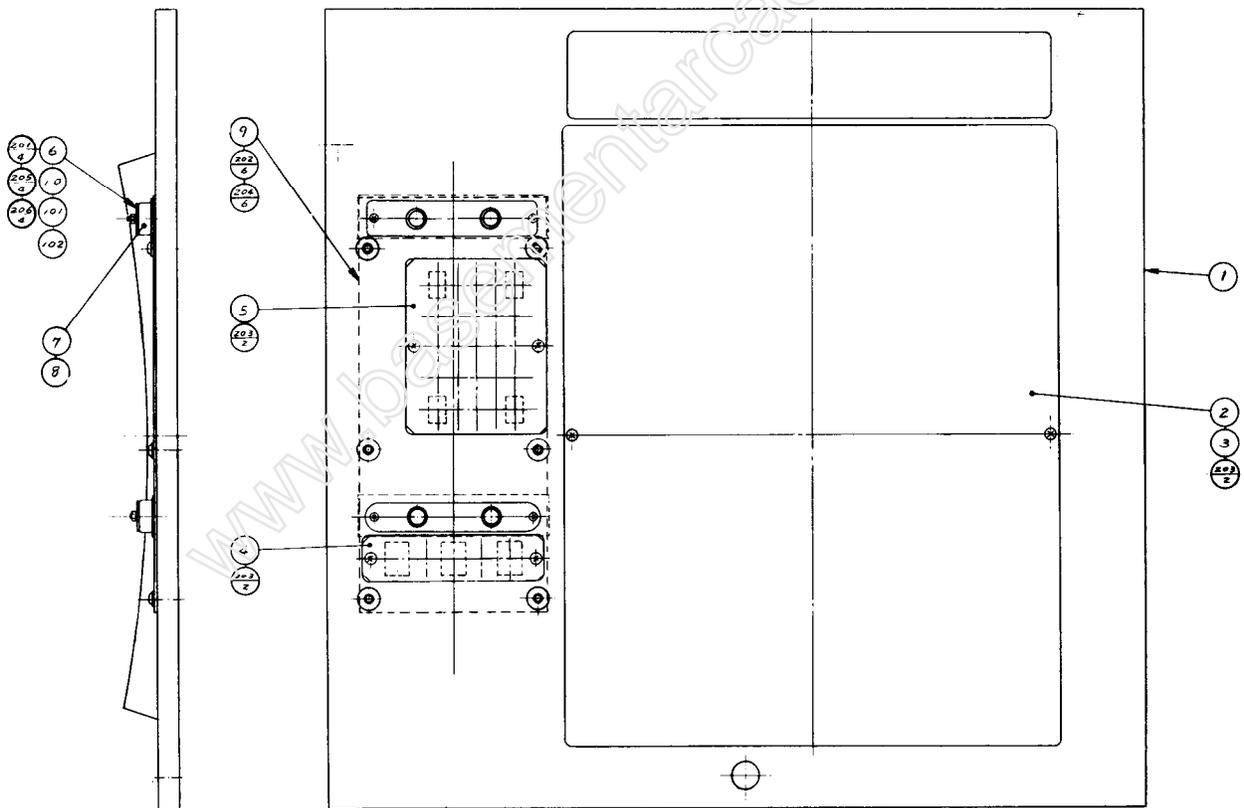
<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY REQ'D</u>	<u>DESCRIPTION</u>
205		4	Hex Nut M3
206		4	F. Wahser M3
207		3	Wood Screw R.H. Phi 11 3.1 x 13

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**Score Board Assy Upright 20''
834-0080**

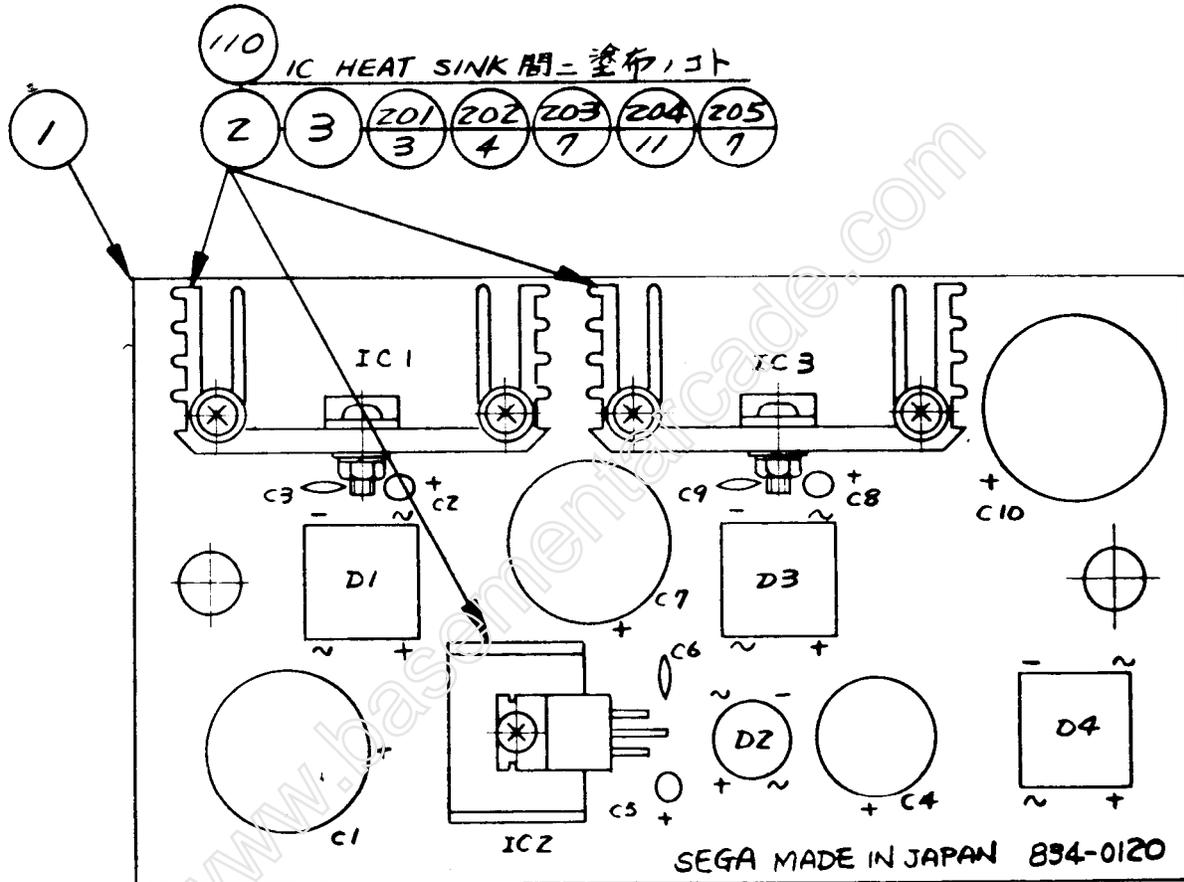
**Score Board Assy Upright 16''
834-0136**

**Score Board Assy Cockpit
834-0124**



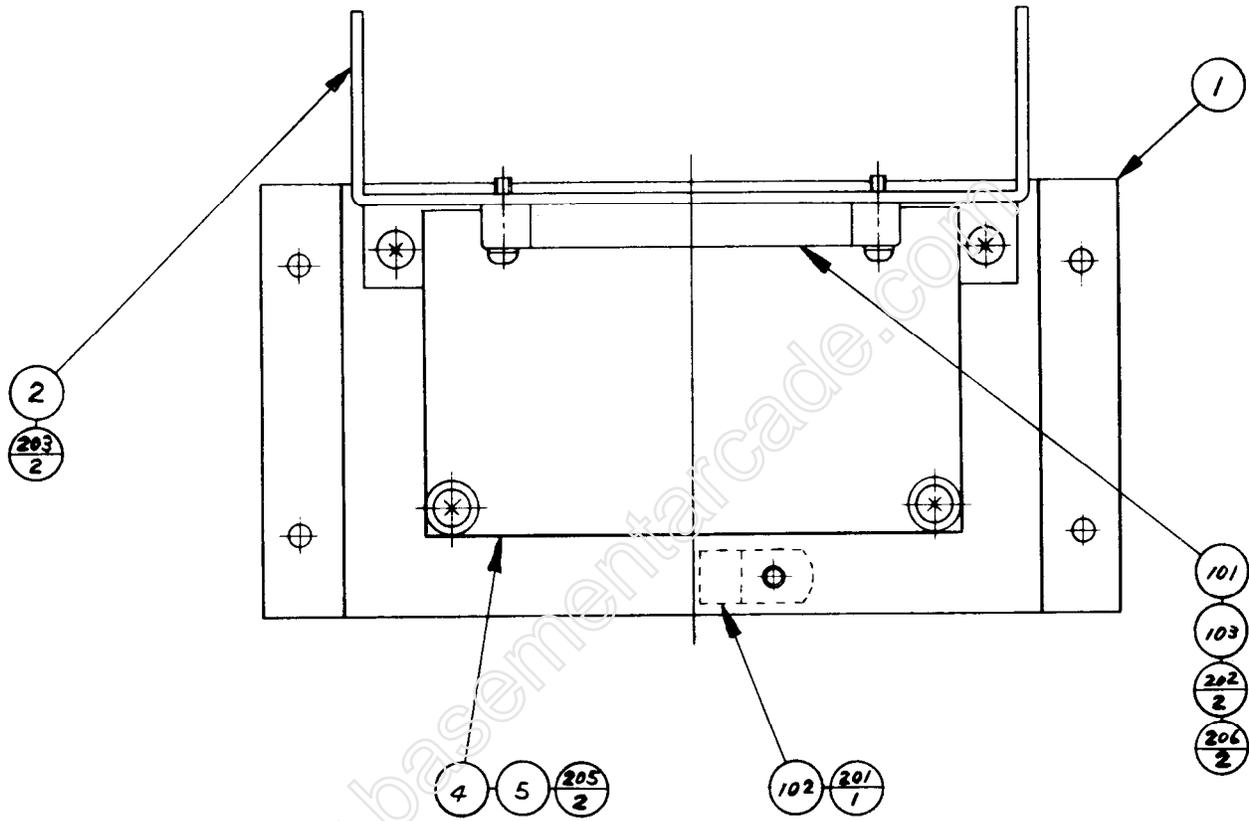
<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
1	171-0063	1	Printed Board
2	530-0021	1	Heat Sink, 6.2 oc/W, L=40
3	530-0024	1	Heat Sink
3 101	313-0091	1	IC UA78M12UC
3 102	313-0058	2	IC UA7812UC
103	481-0042	1	Diode Bridge W06 (Gen. Inst.)
104	481-0065	3	Diode Bridge SZVB10 (Shindengen)
105	150-0008	1	CAP E 2200MF 25V U-TYP
106	150-0189	2	CAP E 3300 MF 25V U-TYP
107	150-0216	1	CAP E 4700 MF 35V U-TYP
108	153-0002	3	CAP Tant 1 MF 25V
109	151-0041	3	CAP Cer 0.1MF 25V
110		1g	Thermal Joint Compound, 2008/Tube (Castall No. 800-1)
201		3	M. Screw, P.H. Phill., ISO
202		4	M. Screw, P.H. Phill., ISO
203		3	M.Screw, P.H. Phill., ISO
204		11	Flat Washer, Small Type
205		7	Spring Washer

Regulator Board Assy Upright/Cockpit 834-0120



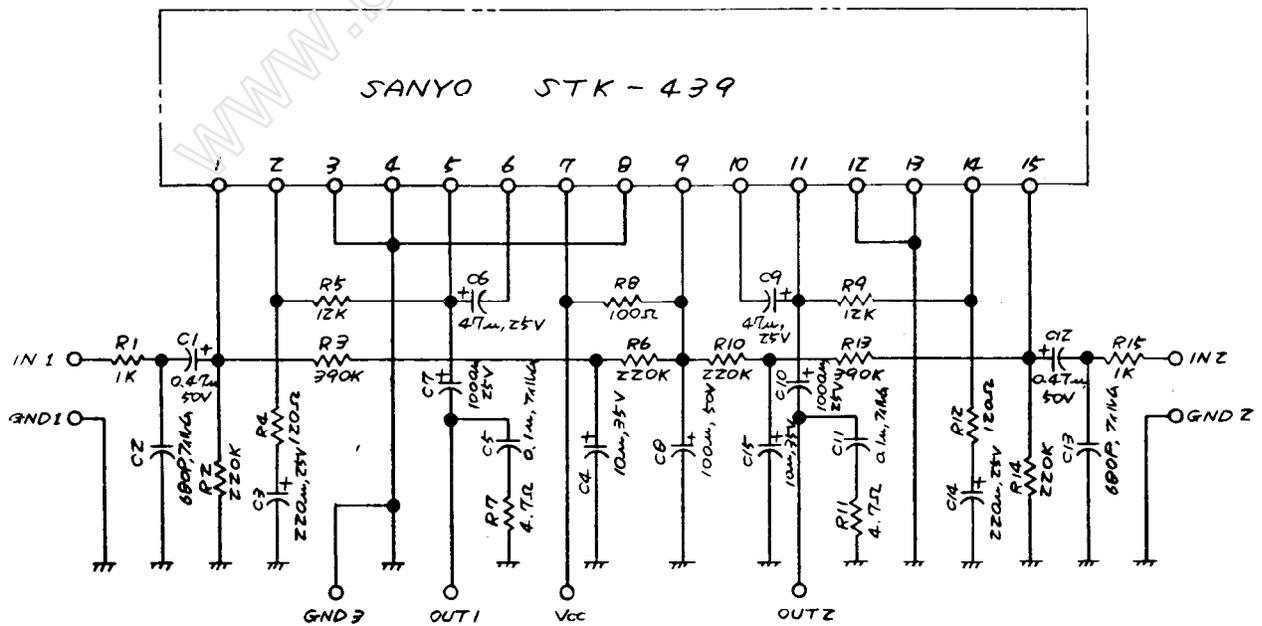
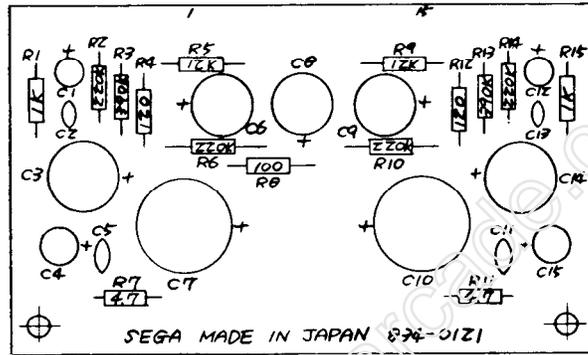
<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
1	140-0066	1	Chassis
2		1	Heat Sink
3			
4	834-0121	1	Assy. Power Amplifier
5	280-0391	2	Spacer Tube
101	315-0129	1	IC Stk-439 (Sanyo)
102	280-0399	1	Clamp, Cord, Plastic, 6mm I.D.
103		1g	Thermal Joint Compound, Z008g Tube (Castall No. 800-1)
201		1	M. Screw, P.H. Phill, ISO, W/F Washer
202		1	M. Screw, P.H. Phill, ISO
203		2	M. Screw, P.H. Phill, ISO, W/S Washer
204			
205		2	M. Screw, P.H. Phill, ISO, W/F Washer
206		2	Spring Washer

Power Amplifier, DC32V, 16W Upright / Cockpit
110-0019



<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
1	171-0062	1	Printed Board
101	470-04R7	2	Res 4.7 Ohm 1/4W 5%
102	470-0101	1	Res 100 Ohm 1/4W 5%
103	470-0121	2	Res 120 Ohm 1/4W 5%
104	470-0102	2	Res 1K Ohm 1/4W 5%
105	470-0123	2	Res 12K Ohm 1/4W 5%
106	470-0224	4	Res 220K Ohm 1/4W 5%
107	470-0394	2	Res 390K Ohm 1/4W 5%
108	152-0081	2	Cap Film 680PF 50V
109	152-0031	2	Cap Film 0.1MF 50V
110	150-0179	2	Cap E 0.47MF 50V U-TYP
111	150-0165	2	Cap E 10MF 35V U-TYP
112	150-0063	2	Cap E 47MF 25V U-TYP
113	150-0215	1	Cap E 100MF 50V U-TYP
114	150-0093	2	Cap E 220MF 25V U-TYP
115	150-0174	2	Cap E 1000MF 25V U-TYP

Power Amplifier Assy Upright/Cockpit 834-0121

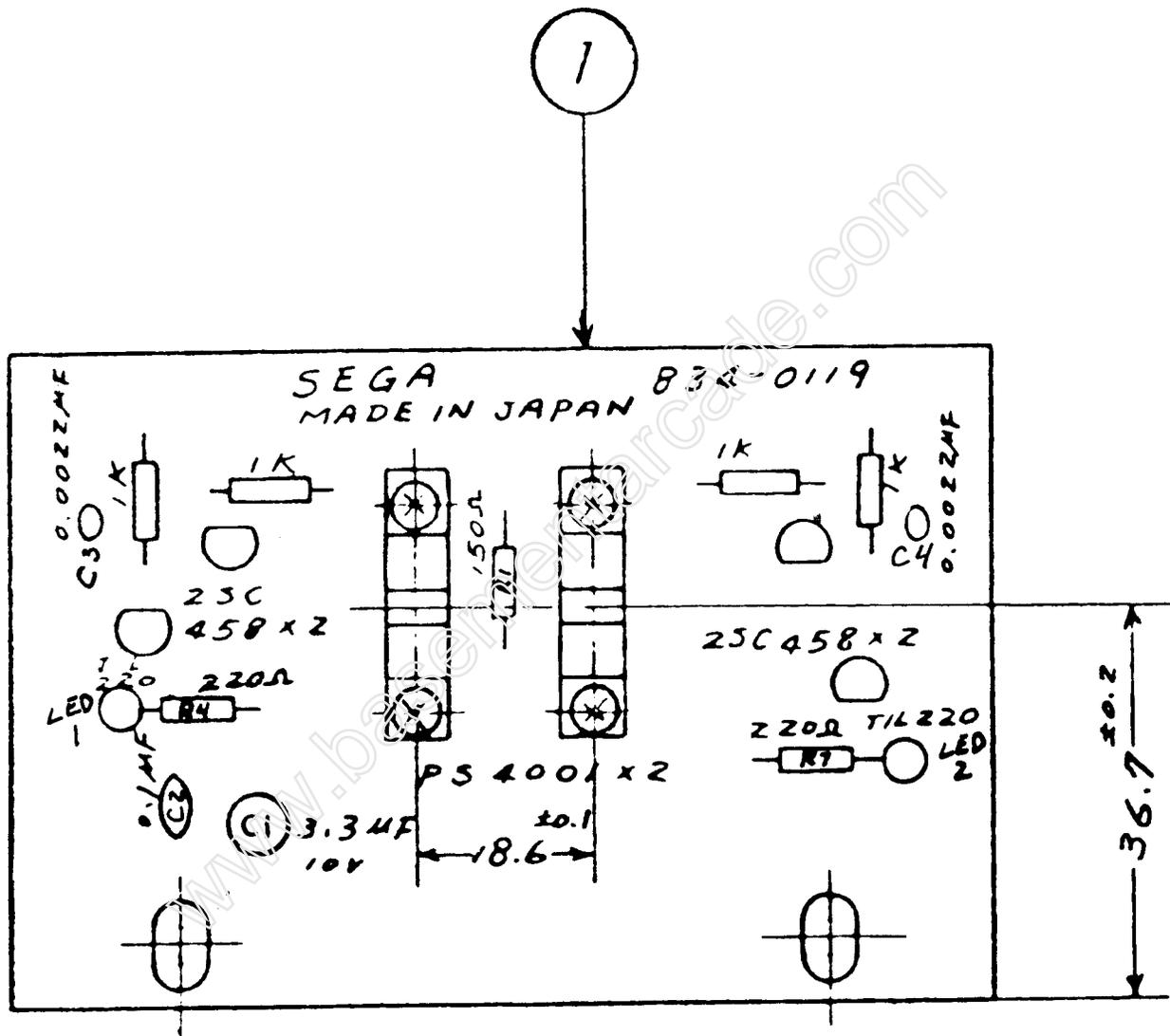


ASSY SENSOR BOARD - UPRIGHT/COCKPIT

DRAWING NUMBER 834-0119

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
1	171-0065	1	Printed Board
2 101	601-0693	2	Photo Micro Sensor (NEC PS4001)
102	390-0100	2	LED TIL220 Red (Texas)
3 103	482-0043	4	Transistor 2SC458,C (Hitachi)
104	151-0041	1	CAP CER 0.1MF 25V
105	150-0071	1	CAP E 3.3MF 10V U-TYP
106	151-0074	1	CAP CER 0.0022MF 25V
107	470-0151	1	Res 150 OHM ¼W 5%
108	470-0221	2	Res 220 OHM ¼W 5%
109	470-0102	4	Res 1K OHM ¼W 5%

Sensor Board Assy Upright/Cockpit
834-0119



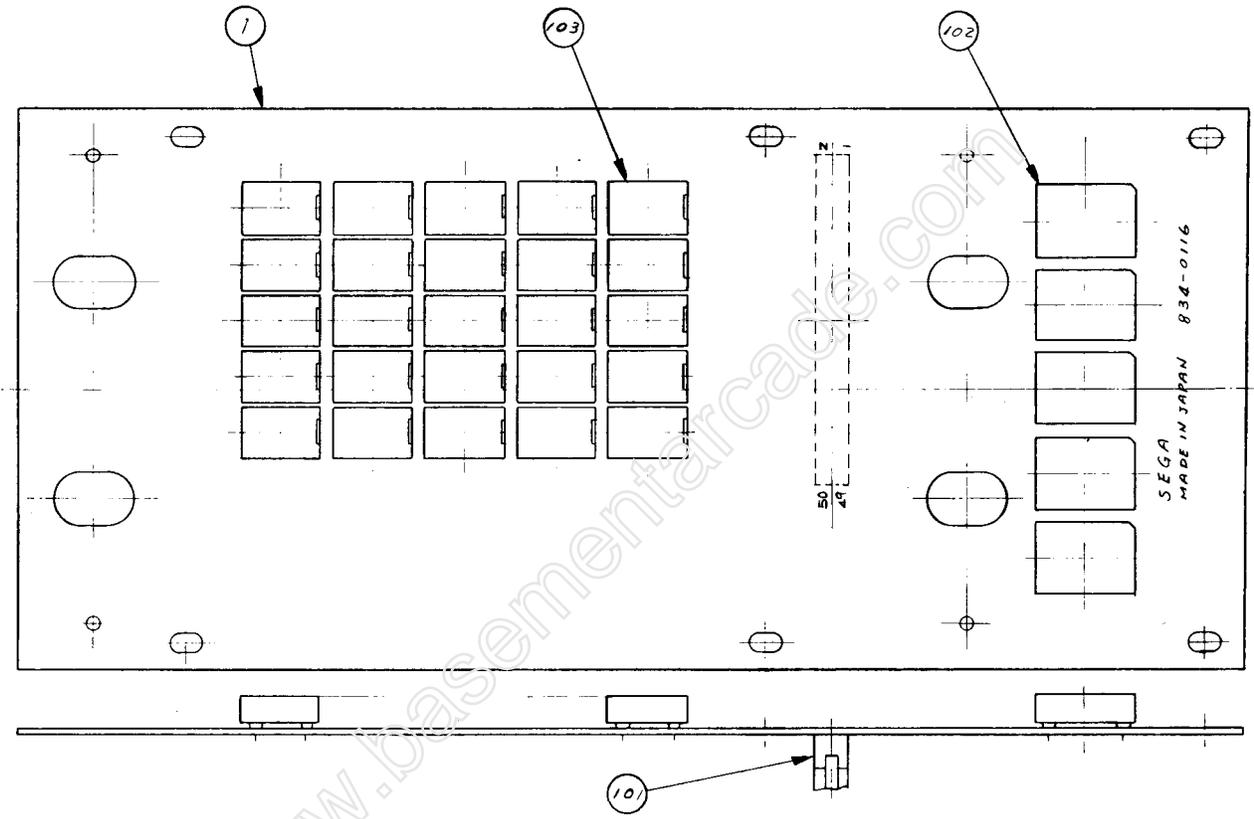
ASSY. LED 7SEG. BOARD -UPRIGHT/COCKPIT

DRAWING NUMBER 834-0116

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
1	171-0060	1	Printed Board
101	212-0120	1	Conn M50Pin (Fujitsu FCN 704P050-AU/M)
102	390-0108	5	Led TLR306 7SEG. RED (Toshiba)
103	390-0109	25	Led TLR353 7SEG. RED (Toshiba)

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LED 7-Segment Board Assy Upright / Cockpit 834-0116



<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
1	834-0110	1	Assy CPU Board, Turbo
2	834-0111	1	Assy PROM BOARD, TURBO
3	834-0109	1	Sticker, 834-0109
101	600-0095	2	Assy Fem & Flat Cable, 50P
102		6	Locking Support, H=28.5 (Richco LCBS-18N)

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
1	171-0057	1	Printed Board
2	834-0128	1	Assy CPU Block
3	280-0395	3	CAM Spacer
101	314-0018	1	IC 74LS00
102	314-0019	3	IC 74LS04
103	314-0046	1	IC 74S04
104	314-0058	3	IC 74LS08
105	314-0085	1	IC 74LS14
106	314-0060	1	IC 74LS20
5 107	314-0068	1	IC 74LS32
5 108	314-0173	2	IC 74LS48N
109	314-0062	3	IC 74LS74
110	314-0140	1	IC 74S74
111	314-0070	3	IC 74LS86
112	314-0237	2	IC 74LS109
5 113	314-0080	1	IC 74LS123
114	314-0104	2	IC 74LS138
115	314-0087	1	IC 74LS139
116	314-0144	2	IC 74LS145
117	314-0071	1	IC 74LS151
118	314-0076	13	IC 74LS157
119	314-0238	4	IC 74S161
120	314-0127	2	IC 74LS164
121	314-0039 314-0077	3	IC 74166 IC 74LS166
122	314-0072	2	IC 74LS174

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
123	314-0253	1	IC 74S174
124	314-0074	2	IC 74LS191
125	314-0055	3	IC 74LS244
126	314-0099	3	IC 74LS245
127	314-0254	4	IC 74LS258
128	314-0143	1	IC 74LS259
129	314-0100	1	IC 74LS273
5 130	314-0101	12	IC 74LS283
131	314-0138	4	IC 74S283
5 132	313-0086	3	IC TD62003P (Toshiba)
133	315-0138	1	IC Custom Chip PA-06R (PAL16R4MJ)
134	315-0065	2	IC 93419
135	315-0087	1	IC 8279
3 136	315-0089	4	IC 8255
5 137	315-0125	2	IC MB8128-15
5 138	315-0126	2	IC MB8148-55
139	315-0139	1	IC Custom Chip PA-06L (PAL16L8MJ)
140	316-1118	1	IC 74S287 PR-1118
141	316-1119	1	IC UPB425D PR-1119
142	316-1120	1	IC UPB425D PR-1120
143	316-1125	1	IC 2716 EPR-1125
144	316-1126	1	IC 2716 EPR-1126
145	316-1127	1	IC 2716 EPR-1127
146	316-1238	1	IC 2716 EPR-1238

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
147	316-1239	1	IC 2716 EPR-1239
148	316-1240	1	IC 2716 EPR-1240
149	316-1241	1	IC 2716 EPR-1241
150	316-1242	1	IC 2716 EPR-1242
151	316-1243	1	IC 2716 EPR-1243
152	316-1244	1	IC 2716 EPR-1244
153	316-1245	1	IC 2716 EPR-1245
154	316-1262	1	IC 2764 EPR-1262
155	316-1263	1	IC 2764 EPR-1263
156	316-1264	1	IC 2764 EPR-1264
157	213-0005	1	SKT 40Pin Dual INLN
5 158	315-0127	4	IC AM25LS2519
5 159	482-0113	15	Transistor ZSA473, O/Y (Toshiba)
160	230-0041	1	Crystal 19.968 MHz (S-95776)
161	390-0100	2	LED TIL220 RED (Texas)
162	510-0049	1	Switch 8POS Dip SPST
163	212-0122	3	Conn M 6PIN RTA
164	212-0123	2	Conn M 12 PIN RTA
165	212-0115	3	Conn M50PIN (Fujitsu FCN705P050-AU/M)
166	212-0119	1	Conn M26PIN (Fujitsu FCN705P026-AU/M)
167	477-0040	2	RES Pack 8 X 510 OHM 1/8W W/Common
168	477-0008	3	Res Pack 8 X 560 OHM 1/8 W W/Common
169	477-0042	1	Res Pack 8 X 560 OHM 1/4W (Not Common)
170	477-0005	1	Res Pack 8 X 4.7K OHM 1/8 W W/Common

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
171	462-0091	14	Res 33 OHM 2W Metal Oxide Film 5%
172	470-0221	3	Res 220 OHM 1/4W 5%
173	470-0331	3	Res 330 OHM 1/4W 5%
174	470-0472	3	Res 4.7K OHM 1/4W 5%
175	470-0473	3	Res 47K OHM 1/4W 5%
176	477-0009	1	Res Pack 8 X 100 OHM 1/4W
177	151-0005	1	CAP CER 680PF 50V
178	151-0008	1	CAP CER 0.001 MF 50V
179	151-0040	10	CAP CER 0.01 MF 25V
180	151-0041	60	CAP CER 0.01 MF 25V
181	150-0023	1	CAP E 10MF 16V U-TYP
182	150-0042	2	CAP E 470 MF 6.3V U-TYP
183	153-0049	1	CAP TANT 47MF 16V
184	213-0001	11	SKT 24 PIN Dual INLN
185	213-0012	3	SKT 28 PIN Dual INLN
186	212-0124	1	Conn M60 Pin (Fujitsu FCN-704P060-AU/O)
187	470-0101	2	Res 100 OHM 1/4W 5%
188	470-0561	2	Res 560 OHM 1/4W 5%

ASSY CPU BOARD, - UPRIGHT/COCKPIT

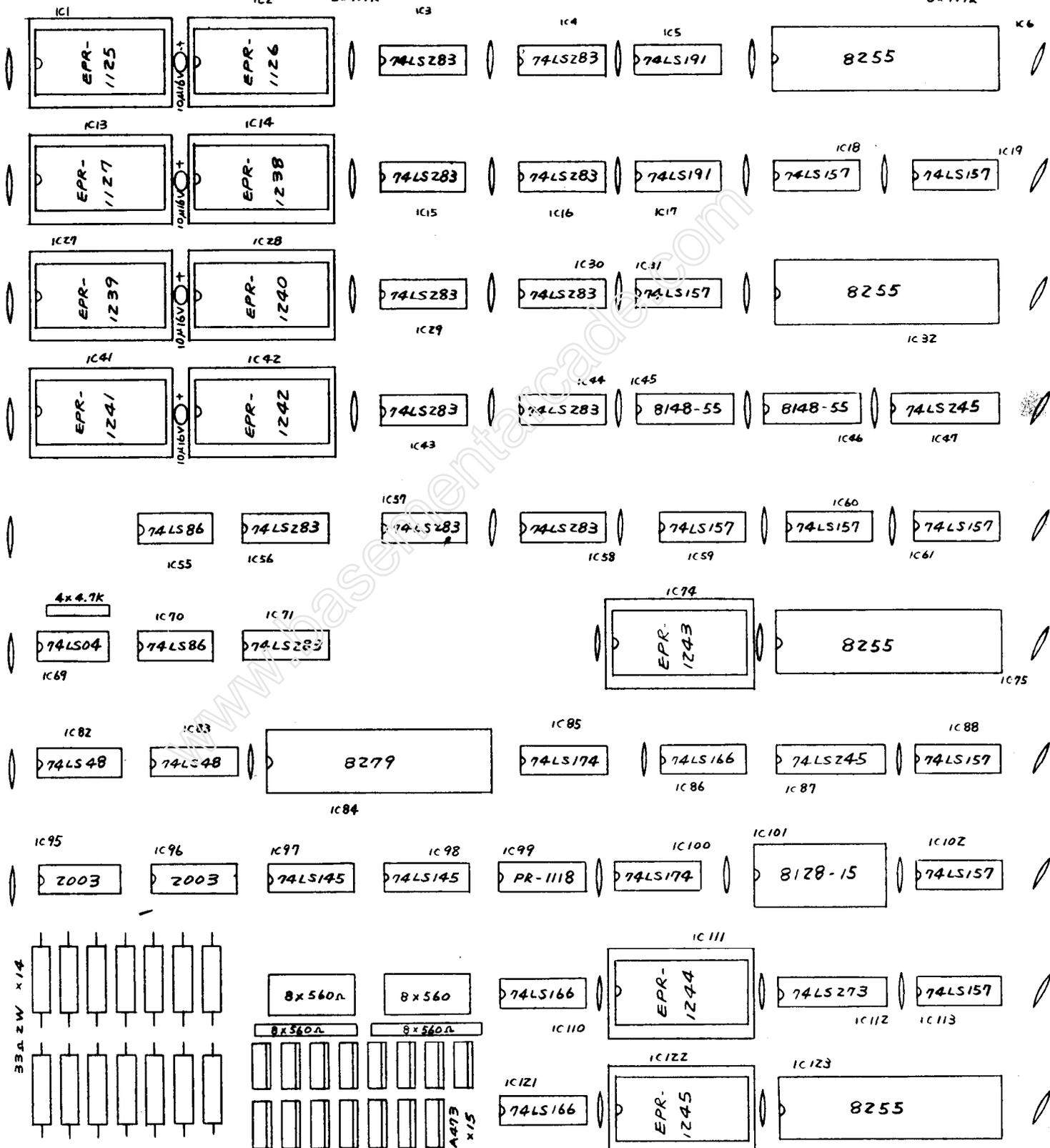
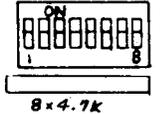
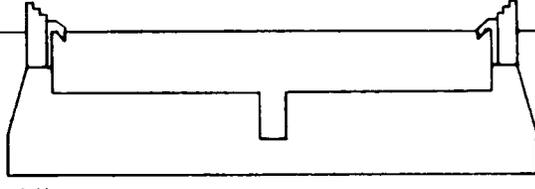
DRAWING NUMBER 834-0110

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
301		3	M. Screw, P.H. Phill, ISO M3X25
302		3	Hex. Nut, ISO M3
303		6	Flat Washer M3
304		3	Spring Washer

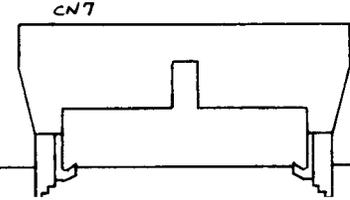
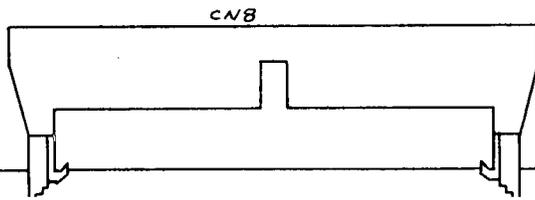
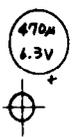
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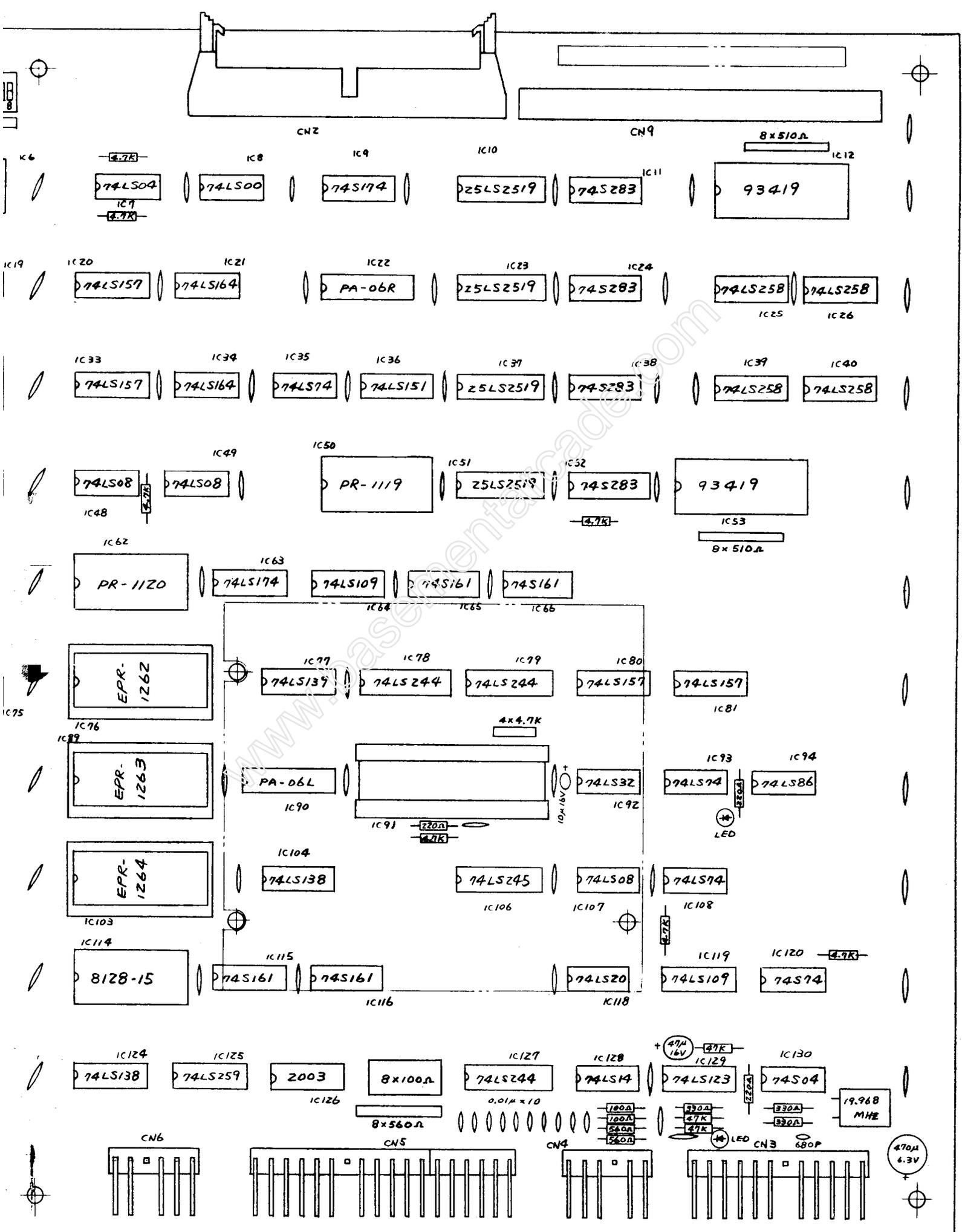
SEGA

MADE IN JAPAN



CPU Board Assy Upright/Cockpit 834-0110





<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
1	171-0058	1	Printed Board
2	530-0024	1	Heat Sink
101	314-0018	4	IC 74LS00
102	314-0019	3	IC 74LS04
103	314-0062	1	IC 74LS74
104	314-0237	5	IC 74LS109
105	314-0104	2	IC 74LS138
106	314-0034	3	IC 74150
5 107	314-0074	32	IC 74LS191
5 108	314-0175	16	IC 74LS195AN
109	314-0055	1	IC 74LS244
110	314-0131	1	IC 74LS373
111	314-0256	2	IC 74376
112	314-0119	1	IC 74 LS377
5 113	314-0257	4	IC 74LS626
114	314-0132	1	IC 75365
5 115	314-0183	2	IC MC14016B
5 116	313-0039	2	IC TL084CN
117	313-0090	1	IC UPC159A
118	315-0124	1	IC UPC624D
119	316-1115	1	IC TBP185030 PR-1115
120	316-1116	1	IC TBP 185030 PR-1115
121	316-1117	1	IC TBP 185030 PR-1117
122	316-1114	1	IC TBP 185030 PR-1114
123	316-1121	1	IC UPB 425D PR-1121
124	316-1122	1	IC UPB 426D PR-1122
125	316-1123	1	IC UPB 426D PR-1123

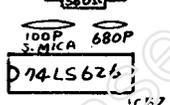
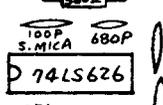
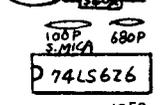
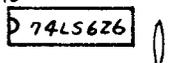
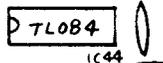
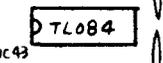
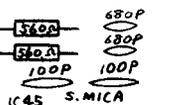
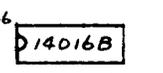
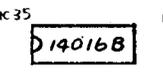
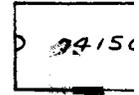
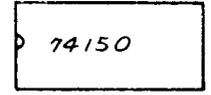
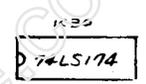
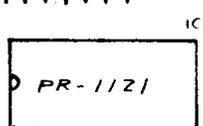
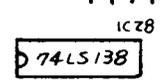
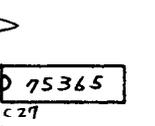
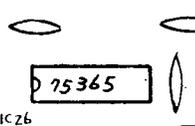
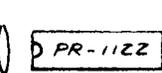
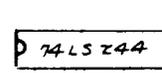
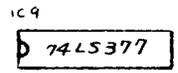
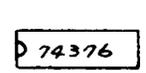
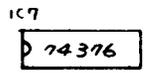
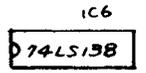
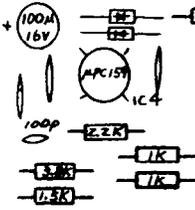
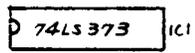
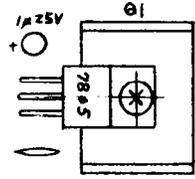
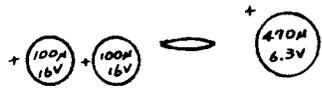
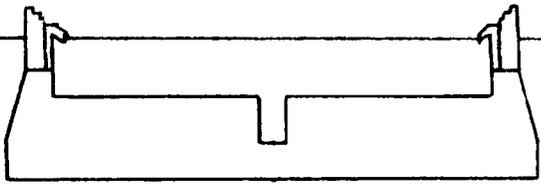
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126	316-1246	1	IC 1764 2764 EPR 1246
127	316-1247	1	IC 2746 EPR 1247
128	316-1248	1	IC 2764 EPR 1248
129	316-1249	1	IC 2764 EPR 1249
130	316-1250	1	IC 2764 EPR 1250
131	316-1251	1	IC 2764 EPR 1251
132	316-1252	1	IC 2764 EPR 1252
133	316-1253	1	IC 2764 EPR 1253
134	316-1254	1	IC 2764 EPR 1254
135	316-1255	1	IC 2764 EPR 1255
136	316-1256	1	IC 2764 EPR 1256
137	316-1257	1	IC 2764 EPR 1257
138	316-1258	1	IC 2764 EPR 1258
139	316-1259	1	IC 2764 EPR 1259
140	316-1260	1	IC 2764 EPR 1260
141	316-1261	1	IC 2764 EPR 1261
142	313-0092	1	IC UA7B05UC
143	390-0100	1	LED TIL220 Red (Texas)

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
144	481-0031	2	Diode MA150 (Matsushita Denshi)
145	510-0060	1	Switch 4 Pos D/P
146	212-0115	2	Conn M50Pin (Fujitsu FCN-705P050-AU/M)
147	212-0122	1	Conn M 6 Pin RTA
148	477-0026	1	Res Pack 4 X 4.7K OHM 1/8W W/Common
149	477-0042	1	Res Pack 8X560 OHM 1/4W (Not common)
150	220-0114	2	Vol Cont Simi-Fixed B-1K OHM (5-93B97)
151	470-0221	5	Res 220 OHM 1/2W 5%
152	470-0471	6	Res 470 OHM 1/4W 5%
153	470-0102	4	Res 1K OHM 1/4W 5%
154	470-0152	1	Res 1.5K OHM 1/4W 5%
155	470-0222	2	Res 2.2K OHM 1/4W 5%
156	470-0382	1	Res 3.8K OHM 1/4W 5%
157	151-0002	1	Cap Cer 100PF 50V
158	151-0005	8	Cap Cer 680PF 50V
159	151-0008	1	Cap Cer 0.001MF 50V

ASSY PROM BOARD, TURBO - UPRIGHT/COCKPIT

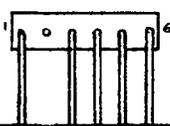
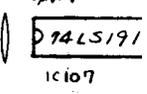
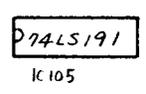
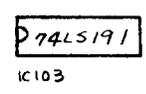
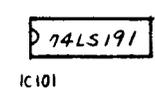
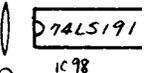
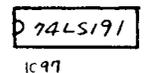
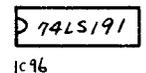
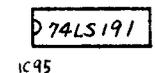
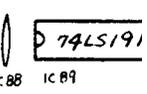
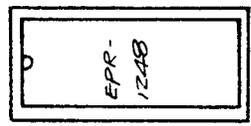
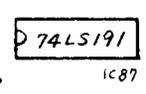
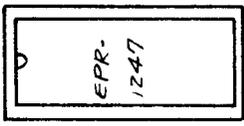
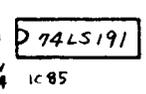
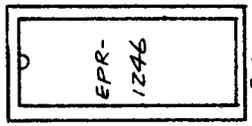
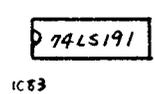
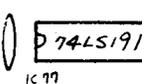
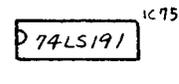
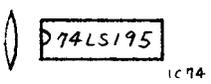
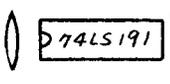
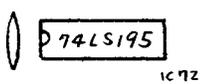
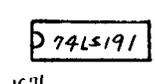
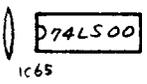
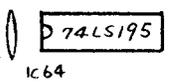
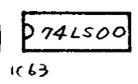
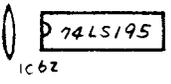
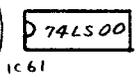
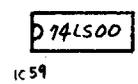
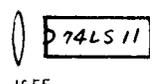
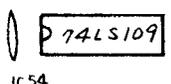
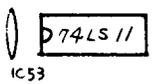
DRAWING NUMBER 834-0111

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
160	151-0041	40	CAP CER 0.1 MF 25V
161	150-0059	3	CAP E 100 MF 16V U-TYP
162	150-0042	2	CAP E 470 MF 6.3V U-TYP
163	153-0002	1	CAP TANT 1 MF 25V
164	153-0025	8	CAP TANT 10 MF 6.3V
165	155-0011	16	CAP Silverd MICA 100PF 500V
166	213-0001	1	SKT 24 PIN Dual INLN
167	213-0012	16	SKT 28 PIN DUAL INLN
168	314-0135	3	IC 74LS11
169	477-0006	1	RES Pack 8 X 1 KOHM 1/8W W/Common



SEGA

MADE IN JAPAN ASS'Y P-ROM BOARD, TB



P-ROM Board Assy Upright/Cockpit CN3
834-0111

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
1	171-0059	1	Printed Board
101	314-0146	1	IC 7416
102	314-0051	3	IC 7417
103	314-0126	1	IC 7438
104	314-0016	4	IC 74123
105	314-0030	1	IC 74393
106	314-0087	1	IC 74LS139
107	314-0001	4	IC NE555 DIP
3 108	314-0183	2	IC MC14016B
109	313-0034	19	ICLM324
5 110	313-0084	8	IC MB4391M
111	315-0035	1	IC MM5837
112	481-0031	32	Diode MA150 (Matsushita Denshi)
5 113	482-0043	11	Transistor, 2SC458, C (Hitachi)
114	470-0562	4	Res 5.6K OHM $\frac{1}{4}$ W 5%
115	470-0121	1	Res 120 OHM $\frac{1}{4}$ W 5%
116	470-0331	1	Res 330 OHM $\frac{1}{4}$ W 5%
117	470-0471	4	Res 470 OHM $\frac{1}{4}$ W 5%
118	470-0102	16	Res 1K OHM $\frac{1}{4}$ W 5%
119	470-0222	17	Res 2.2K OHM $\frac{1}{4}$ W 5%
120	470-0272	2	Res 2.7K OHM $\frac{1}{4}$ W 5%
121	470-0332	4	Res 3.3K OHM $\frac{1}{4}$ W 5%
122	470-0392	3	Res 3.9 OHM $\frac{1}{4}$ W 5%
123	470-0472	5	Res 4.7K OHM $\frac{1}{4}$ W 5%
124	470-0512	2	Res 5.1K OHM $\frac{1}{4}$ W 5%
125	470-0622	1	Res 6.2K OHM $\frac{1}{4}$ W 5%
126	470-0682	1	Res 6.8K OHM $\frac{1}{4}$ W 5%

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
127	470-0822	3	Res 8.2K OHM $\frac{1}{4}$ W 5%
128	470-0103	42	Res 10K OHM $\frac{1}{4}$ W 5%
129	470-0123	7	Res 12K OHM $\frac{1}{4}$ W 5%
130	470-0153	3	Res 15K OHM $\frac{1}{4}$ W 5%
131	470-0223	9	Res 22K OHM $\frac{1}{4}$ W 5%
132	470-0303	8	Res 30K OHM $\frac{1}{4}$ W 5%
133	470-0333	6	Res 33K OHM $\frac{1}{4}$ W 5%
134	470-0393	1	Res 39K OHM $\frac{1}{4}$ W 5%
135	470-0473	11	Res 47K OHM $\frac{1}{4}$ W 5%
136	470-0513	48	Res 51K OHM $\frac{1}{4}$ W 5%
137	470-0683	7	Res 68K OHM $\frac{1}{4}$ W 5%
138	470-0104	75	Res 100K OHM $\frac{1}{4}$ W 5%
139	470-0124	4	Res 120K OHM $\frac{1}{4}$ W 5%
140	470-0154	7	Res 150K OHM $\frac{1}{4}$ W 5%
141	470-0204	1	Res 200K OHM $\frac{1}{4}$ W 5%
142	470-0224	7	Res 220K OHM $\frac{1}{4}$ W 5%
143	470-0274	3	Res 270K OHM $\frac{1}{4}$ W 5%
144	470-0334	1	Res 330K OHM $\frac{1}{4}$ W 5%
145	470-0474	4	Res 470K OHM $\frac{1}{4}$ W 5%
146	470-0684	1	Res 680K OHM $\frac{1}{4}$ W 5%
147	470-0105	2	Res 1M OHM $\frac{1}{4}$ W 5%
148	471-0331	1	Res 330 OHM $\frac{1}{2}$ W 5%
149	471-0681	1	Res 680 OHM $\frac{1}{2}$ W 5%
150	470-0824	1	Res 820K OHM $\frac{1}{4}$ W 5%
151	220-0119	1	Vol Cont 20K OHM 5M-F

ASSY SOUND BOARD, TURBO - UPRIGHT/COCKPIT

DRAWING NUMBER 834-0123

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
152	220-0116	4	Vol Cont 200K OHM SM-F
153	150-0016	14	Cap E 1MF 16V U-TYP
154	150-0014	26	Cap E 2.2MF 25V U-TYP
155	150-0007	12	Cap E 4.7MF 16V U-TYP
156	150-0023	7	Cap E 10MF 16V U-TYP
157	150-0015	3	Cap E 22MF 16V U-TYP
158	150-0065	2	Cap E 47MF 16V U-TYP
159	150-0160	6	Cap E 470MF 16VU-TYP
160	153-0056	1	Cap Tant 0.1MF 35V 10%

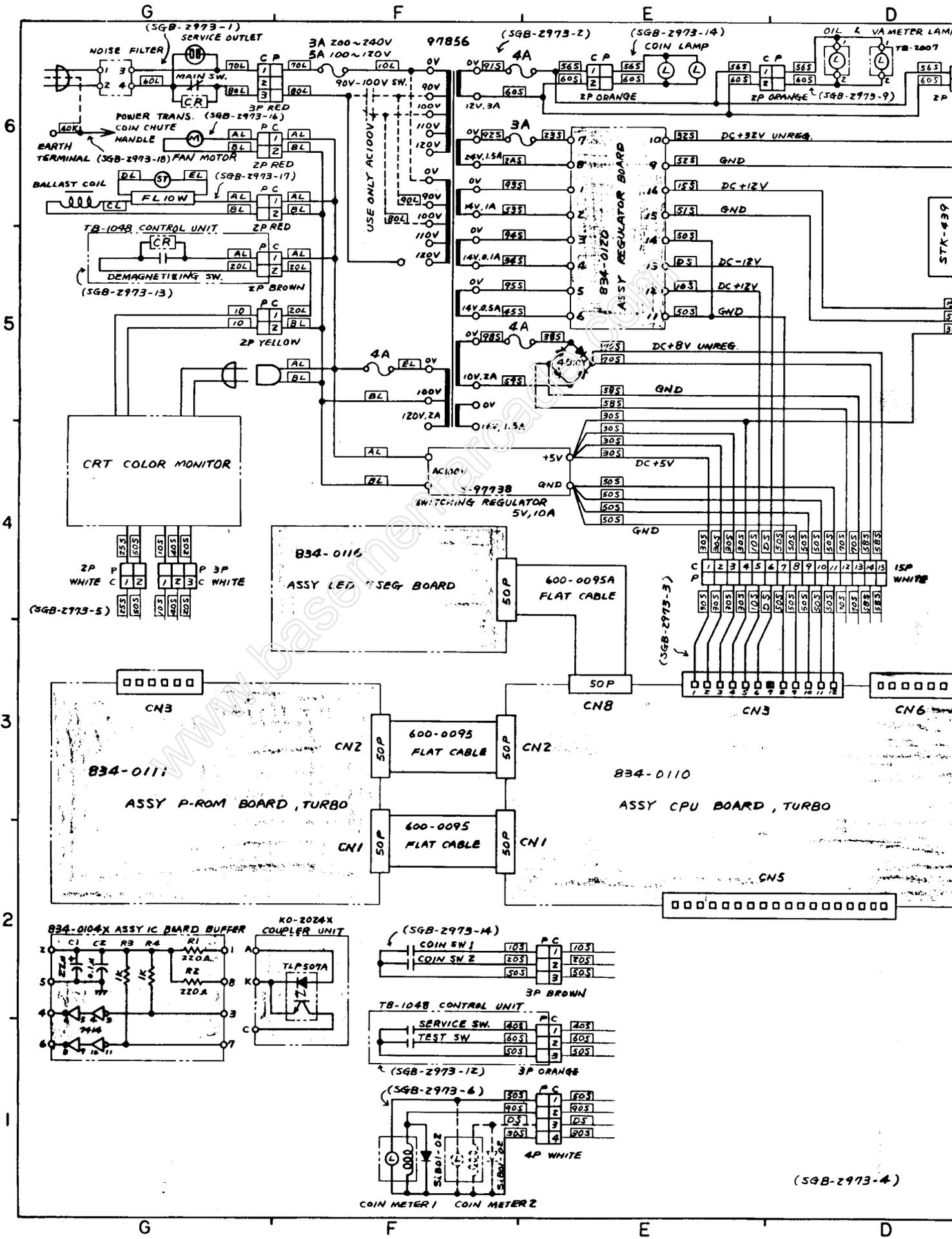
<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQ'D</u>	<u>DESCRIPTION</u>
161	151-0041	*49	Cap Cer .01MF 25V
162	153-0002	11	Cap Tant 1MF 25V
163	153-0041	1	Cap Tant 1.5MF 25V
164	153-0003	1	Cap Tant 2.2MF 25V
165	153-0065	3	Cap Tant 3.3MF 16V
166	153-0045	2	Cap Tant 4.7MF 16V
167	153-0030	10	Cap Tant 6.8MF 16V
168	153-0066	6	Cap Tant 10MF 16V
169	153-0032	1	Cap Tant 15MF 16V
170	153-0026	6	Cap Tant 22MF 16V
171	153-0050	3	Cap Tant 33MF 16V
172	152-0077	7	Cap Film 0.0047MF 50V 5%
173	152-0073	3	Cap Film 0.0068MF 50V 5%
174	152-0033	7	Cap Film 0.01MF 50V
175	152-0079	2	Cap Film 0.022MF 50V 5%
176	152-0035	1	Cap Film 0.033MF 50V 5%
177	152-0038	2	Cap Film 0.047MF 50V
178	152-0066	1	Cap Film 0.068MF 25V
179	152-0031	2	Cap Film 0.1MF 50V
180	212-0081	1	Conn M 4 Pin RTA
181	212-0122	1	Conn M 6 Pin RTA
182	212-0123	1	Conn M 12 Pin RTA
183	212-0119	1	Conn M 26 Pin (Fujitsu FCN-705P026-AUM)
184	151-0005	16	Cap Cer 680PF 50V
185	470-0823	1	Res 82K OHM $\frac{1}{2}$ W 5%

ASSY SOUND BOARD, TURBO - UPRIGHT/COCKPIT

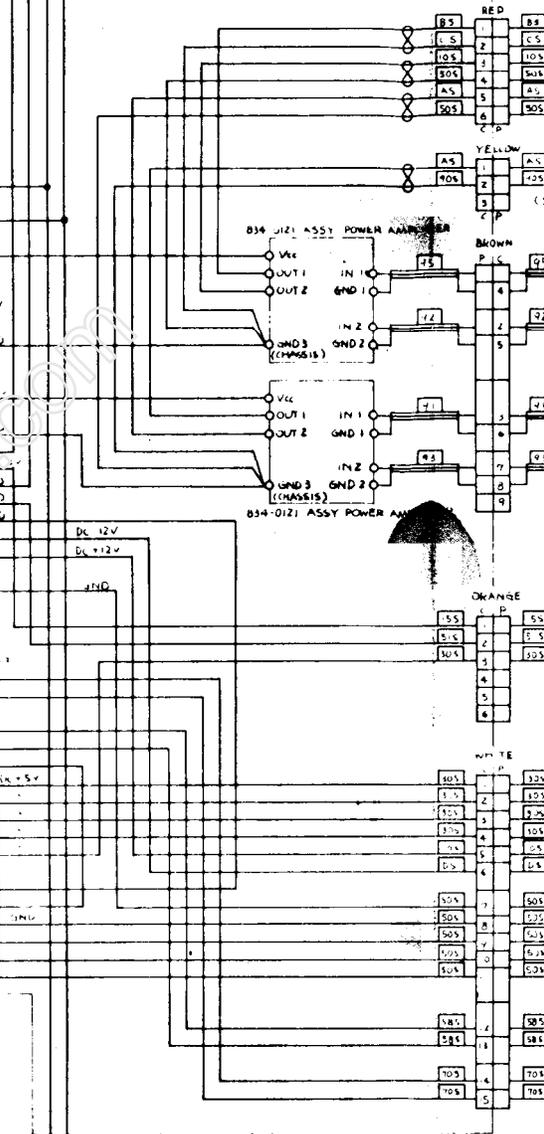
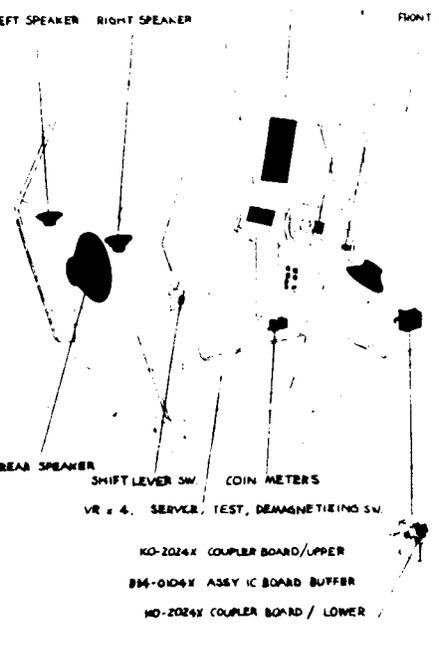
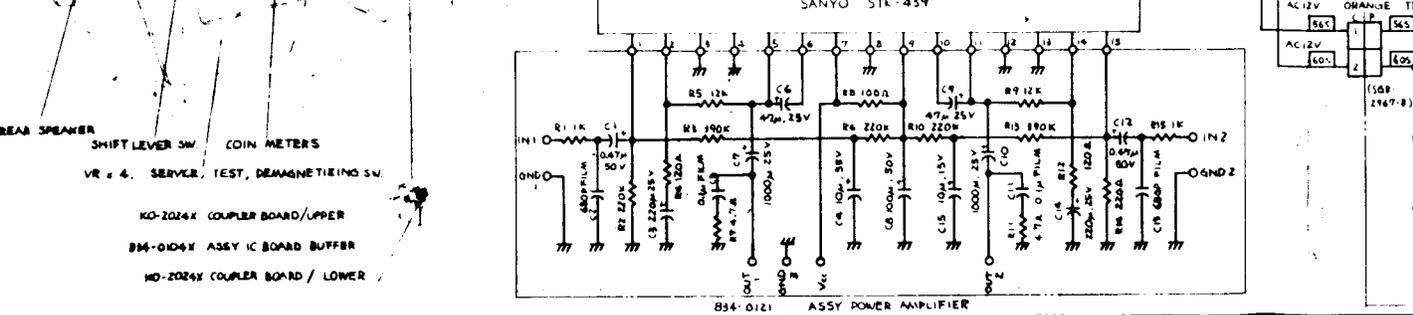
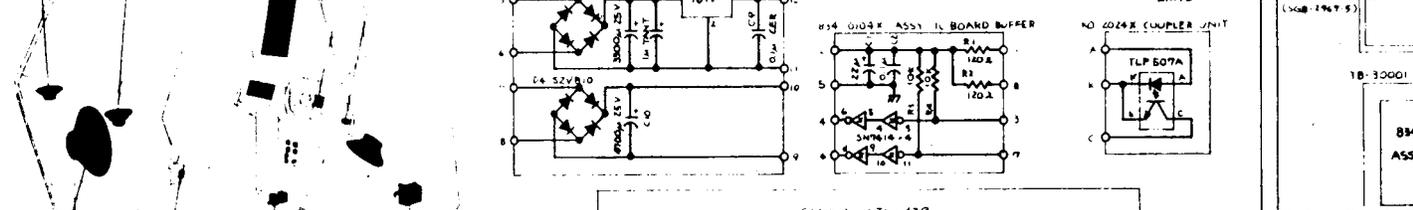
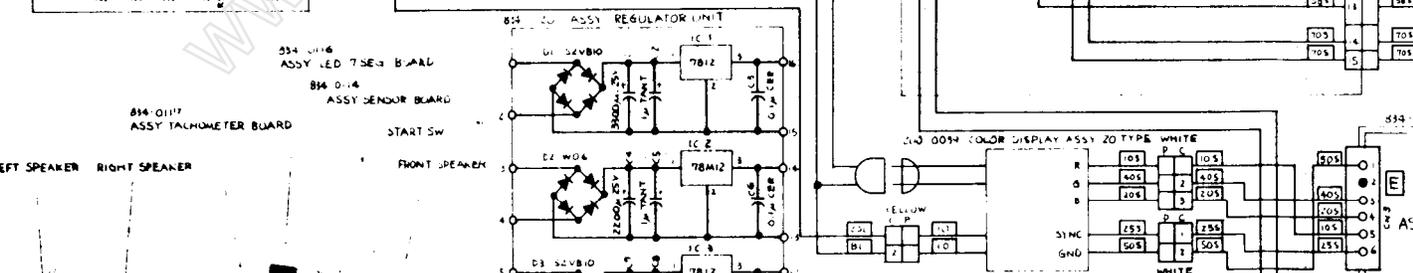
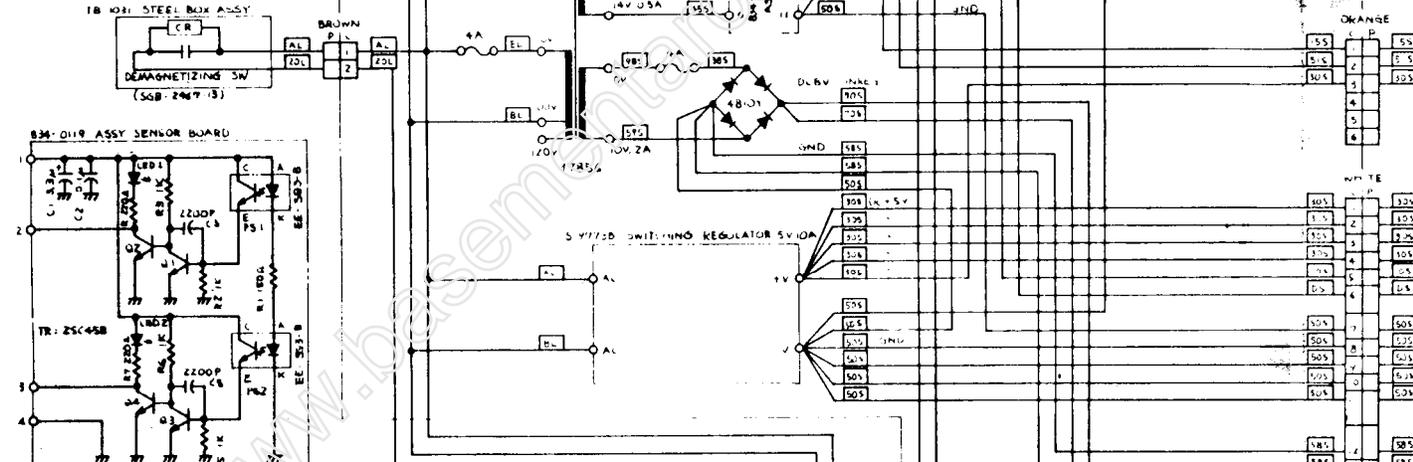
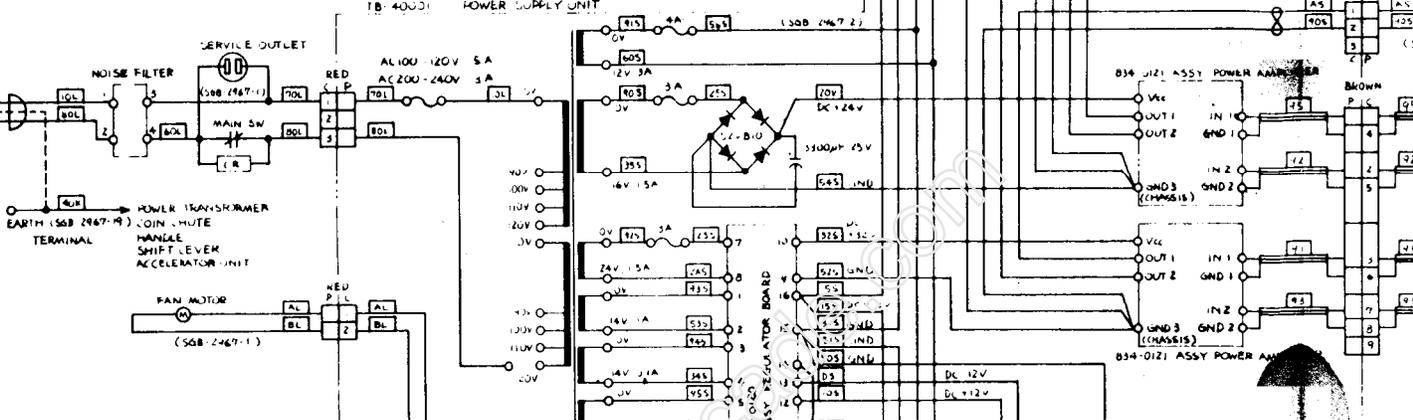
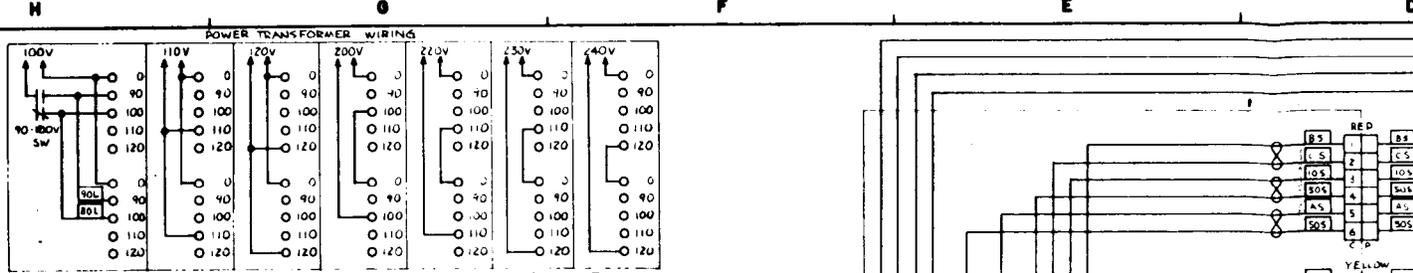
DRAWING NUMBER 834-0123

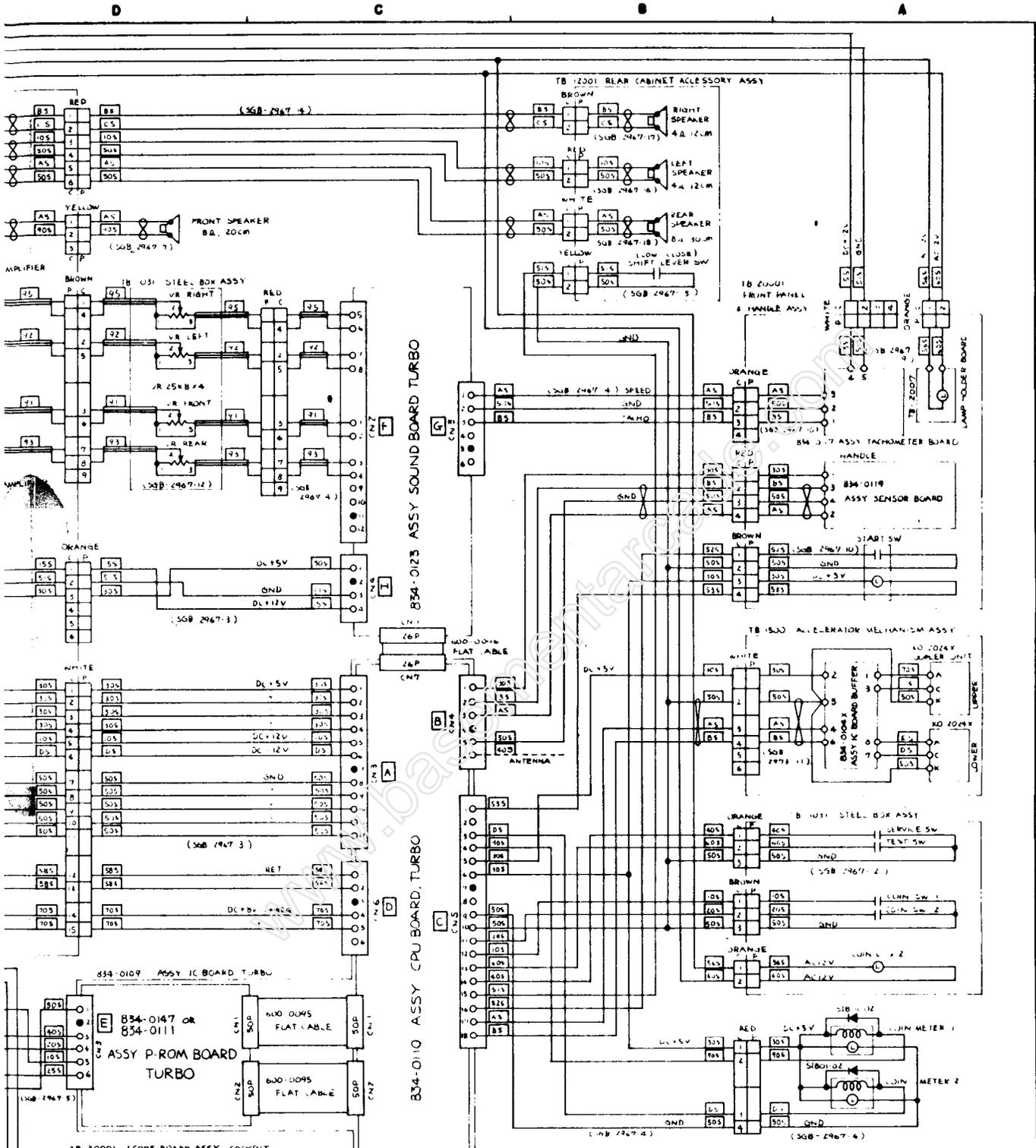
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186	316-1279	1	IC 6330 PR-1279
5 187	313-0037	5	IC 7L081CP
188	314-0080	1	IC 74LS123
189	314-0232	1	IC 74145
190	477-0005	3	Res Pack 8 X 4.7K OHM $\frac{1}{2}$ W W/Common
191	477-0025	2	Res Pack 8 X 2.7K OHM $\frac{1}{2}$ W W/Common

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(SGB-2973-4)





ISSUE
1981.11.18
P.ENG.DEPT
SEGA

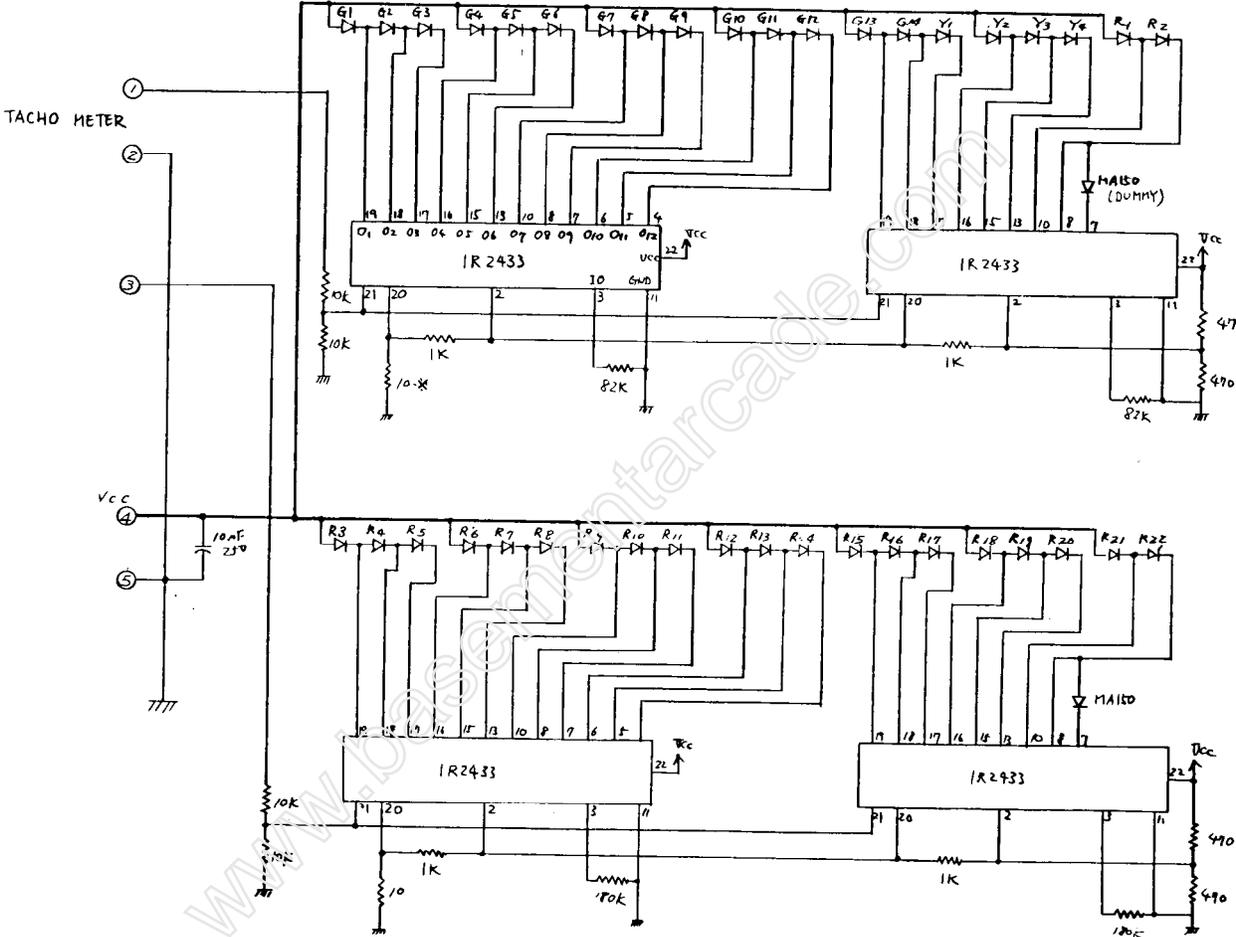
ALTERATION	VOLTAGE						DESCRIPTION
	110V	200V	220V	230V	240V	100V	
	W	W	W	W	W	W	STAND-BY
	W	W	W	W	W	W	MAXIMUM
	POWERS						POWER CONSUMPTION
	52	51	50	49	48	47	EXAMPLES
	K	L	J	I	H	G	SWITCH/SYMBOLS
	D	C	B	A	9	8	APR 1981
	7	6	5	4	3	2	ASSY
	1	2	3	4	5	6	DBW
	1	2	3	4	5	6	734-0049
	1	2	3	4	5	6	SCHEMATIC DIAGRAM NO.

Cabinet Wiring Diagram Cockpit

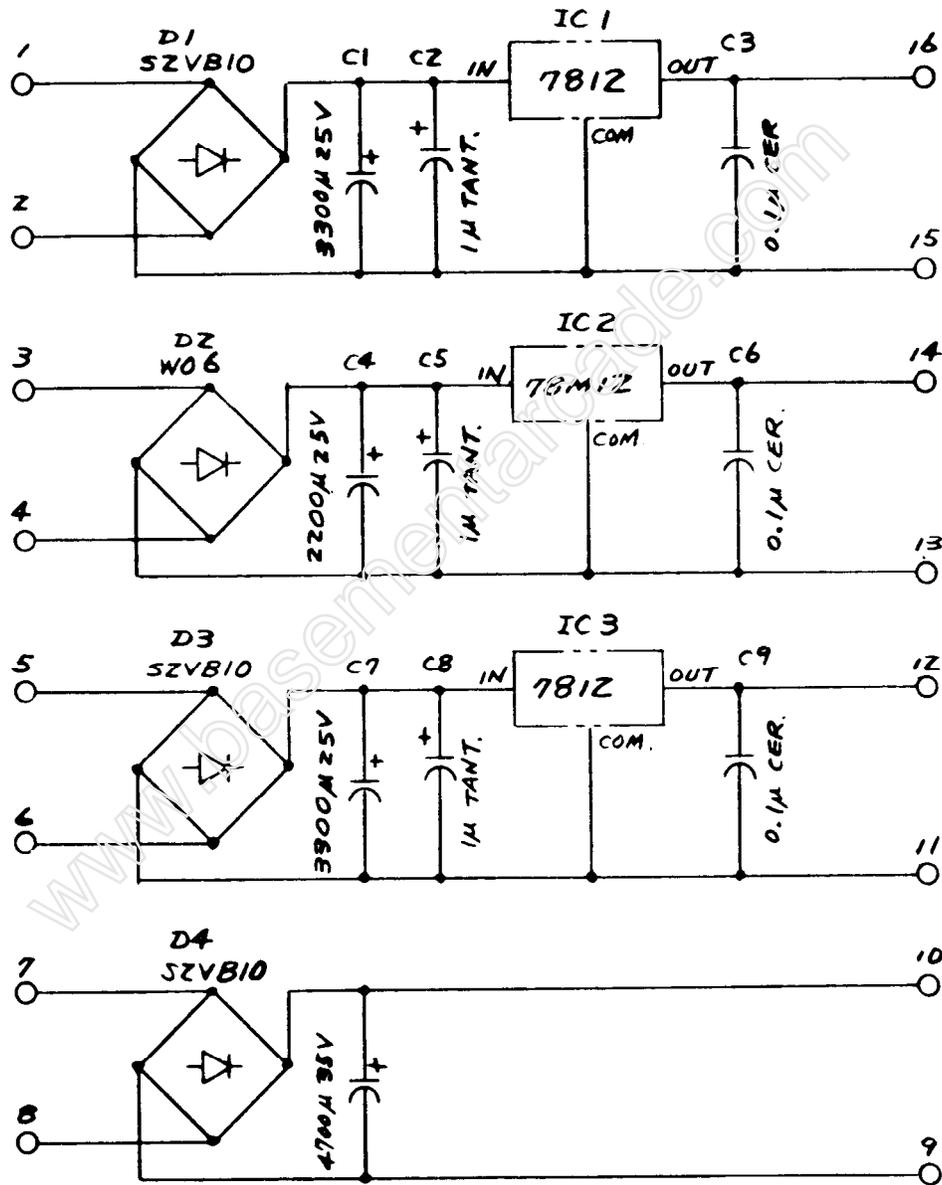
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T.W.C. CHART NO.

Tacho Meter Board

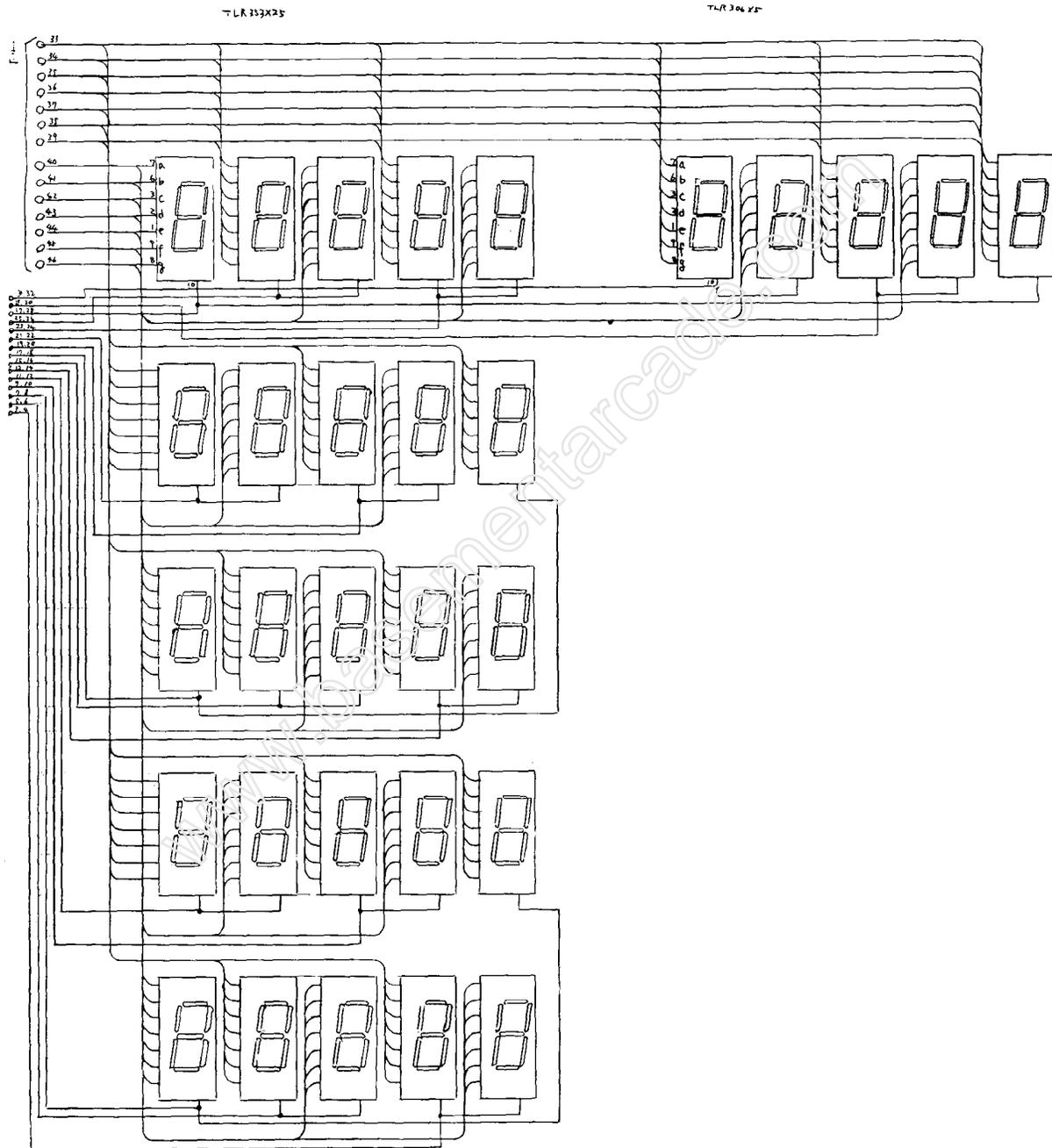
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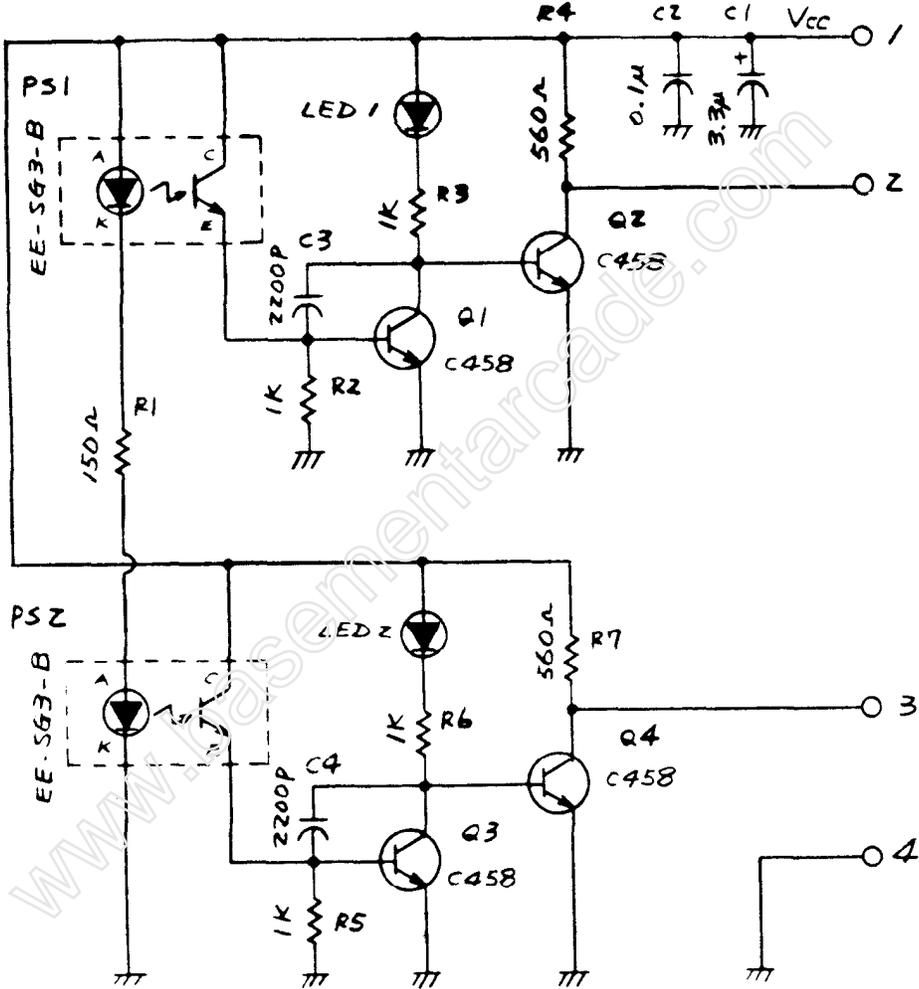
Regulator Board 834-0120



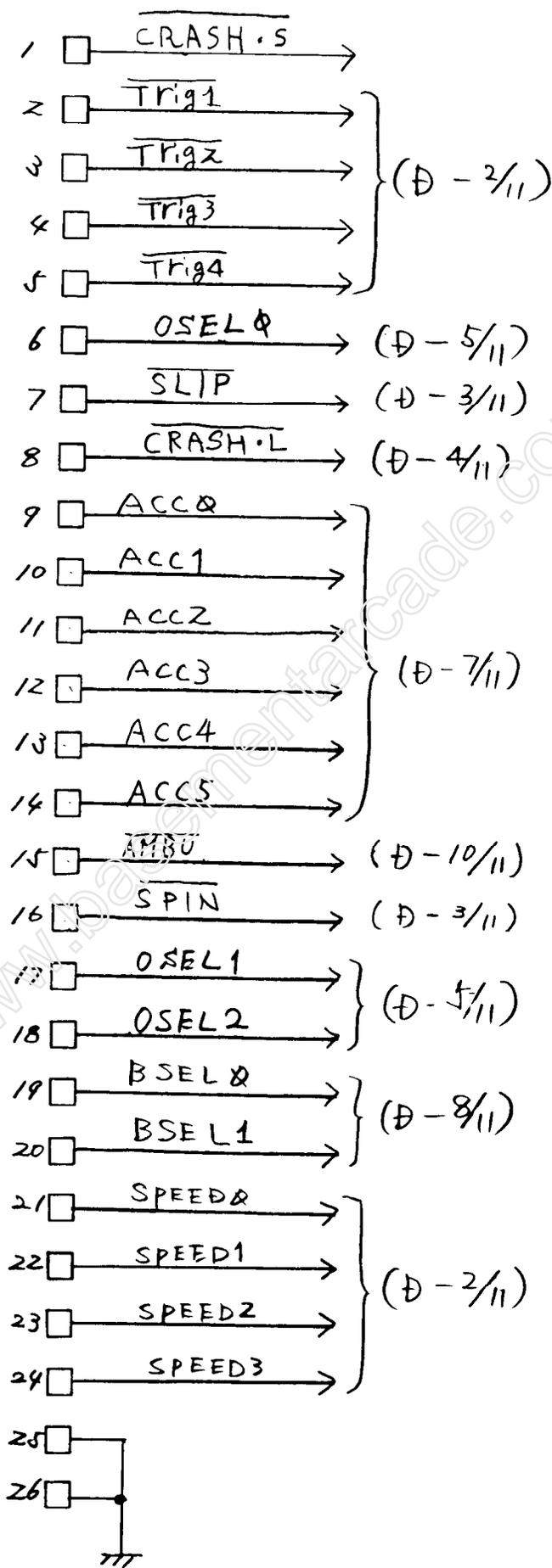
LED 7-Segment Board 834-0119

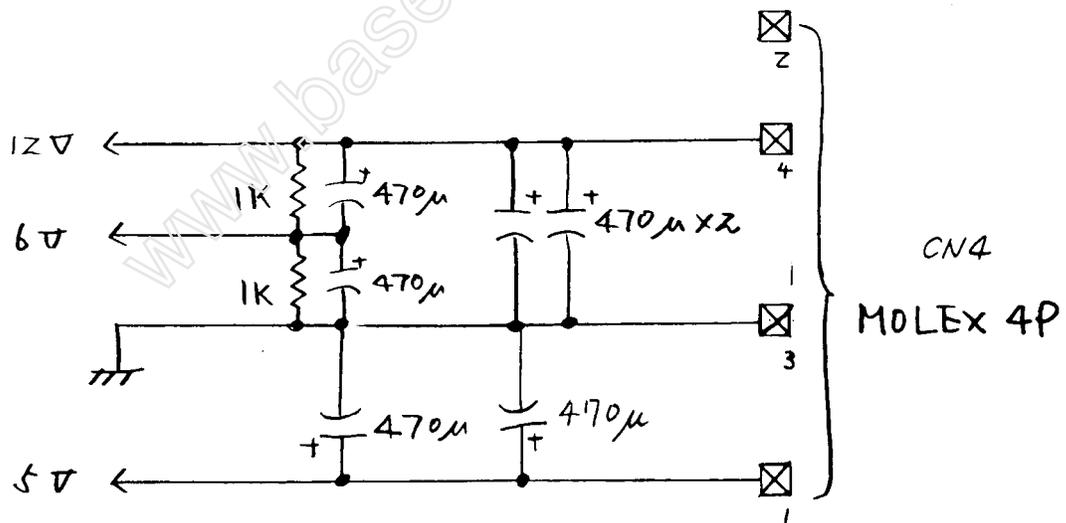


Sound Board
834-0123



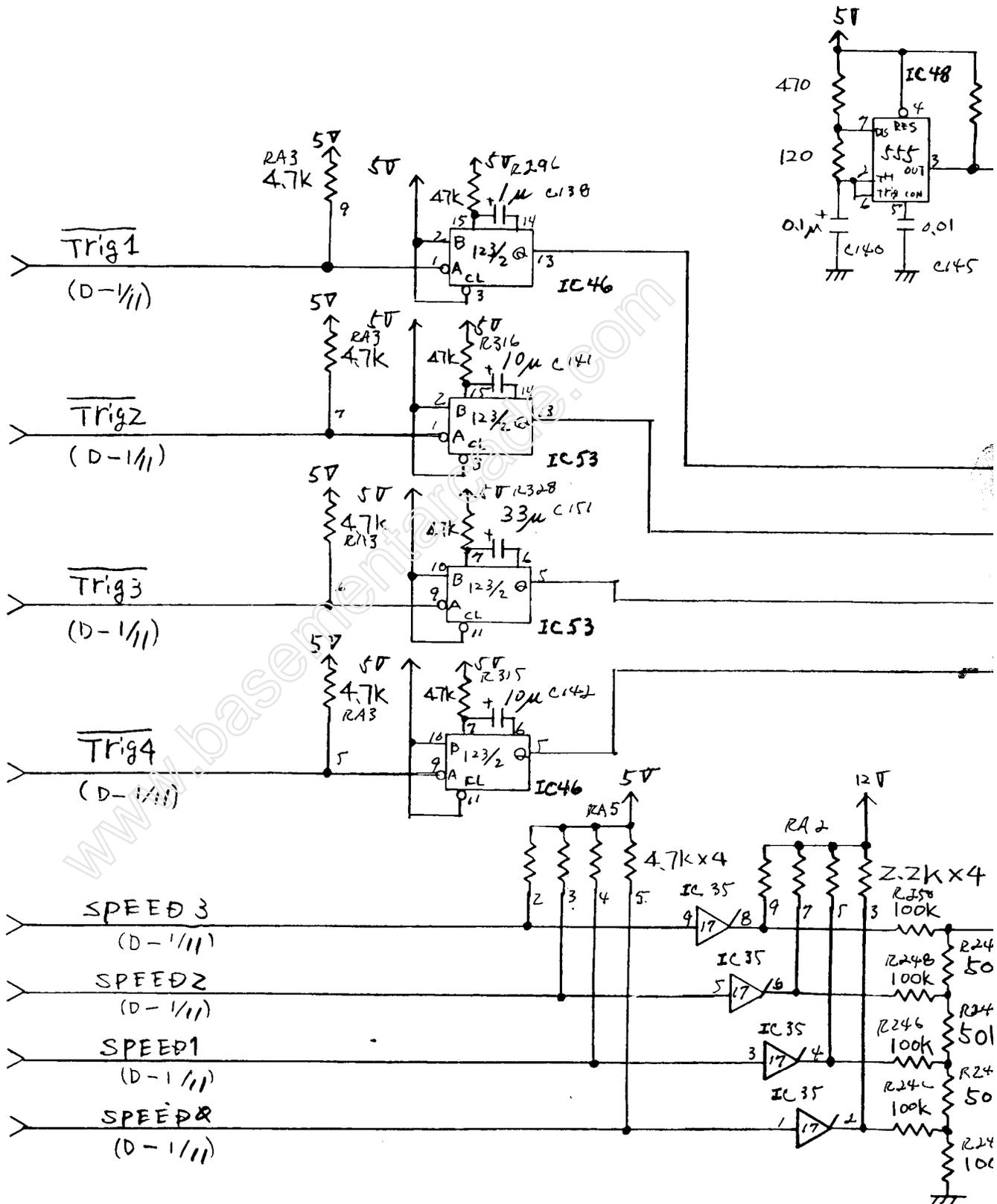
CN1
TO MAIN BOARD

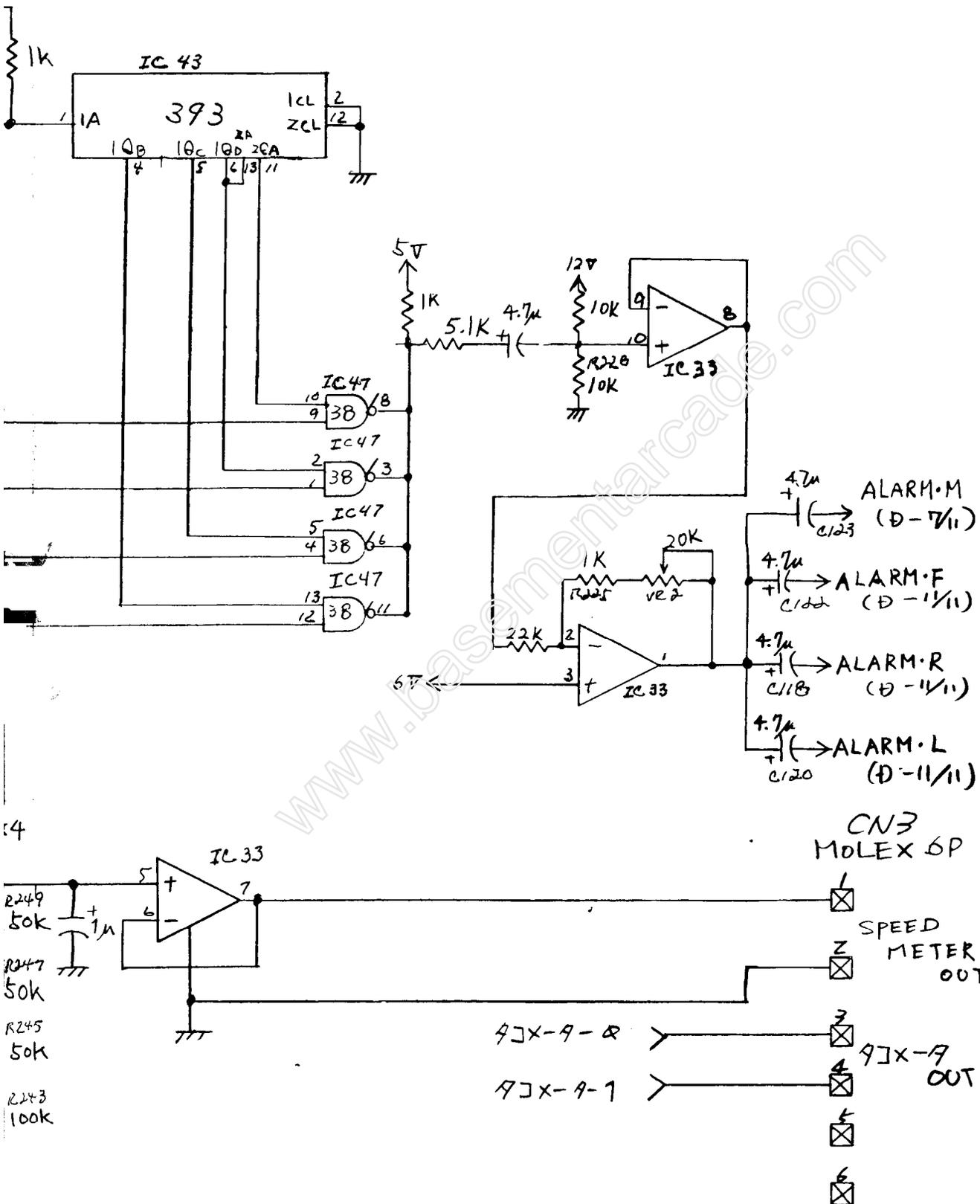




Sound Board
834-0123

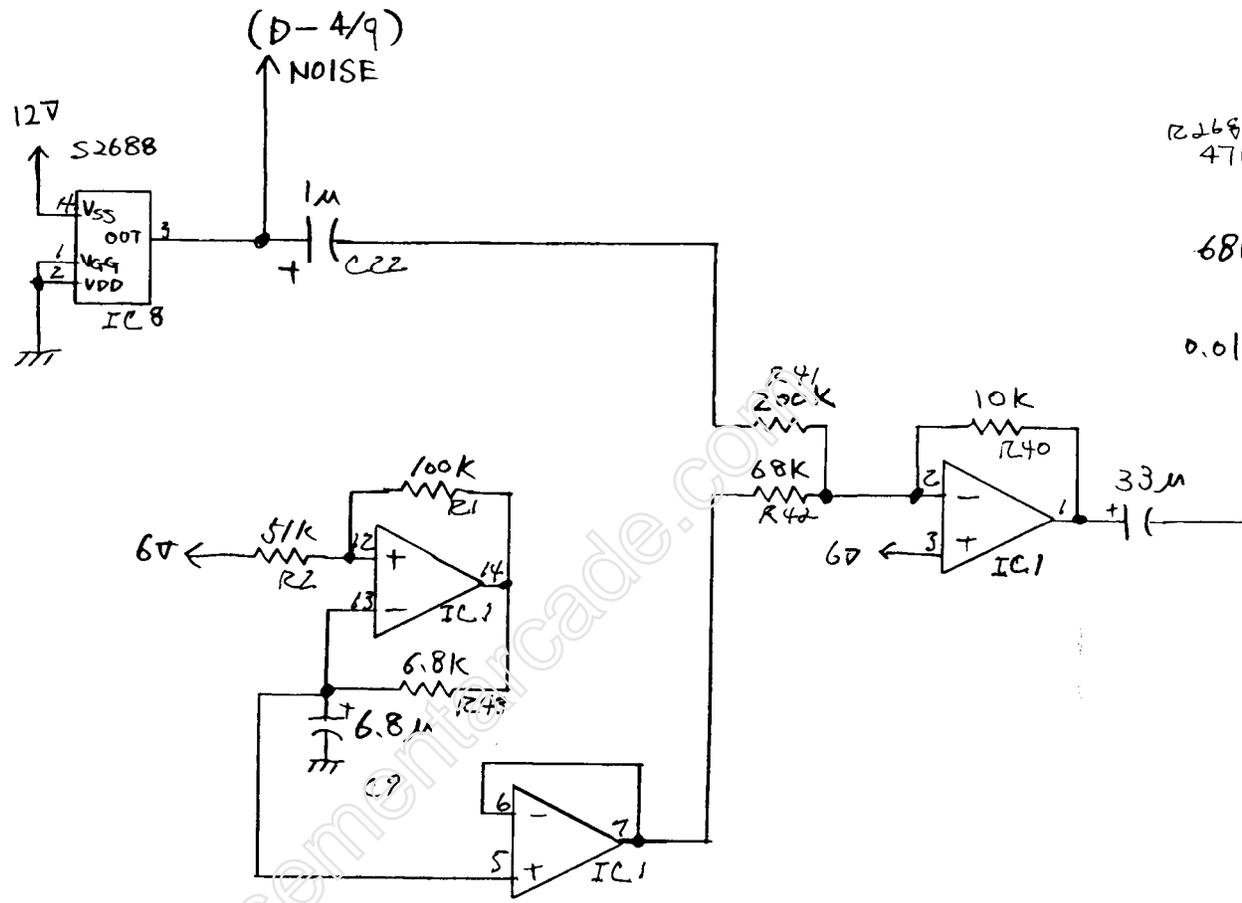
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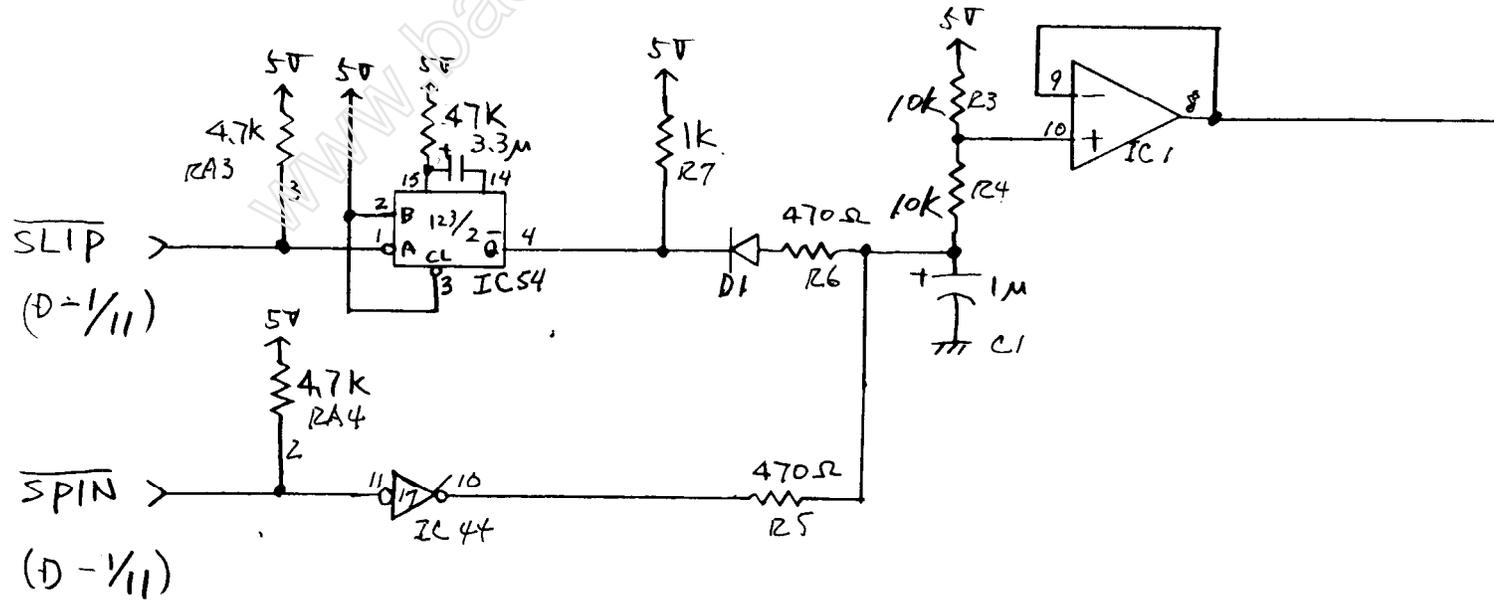


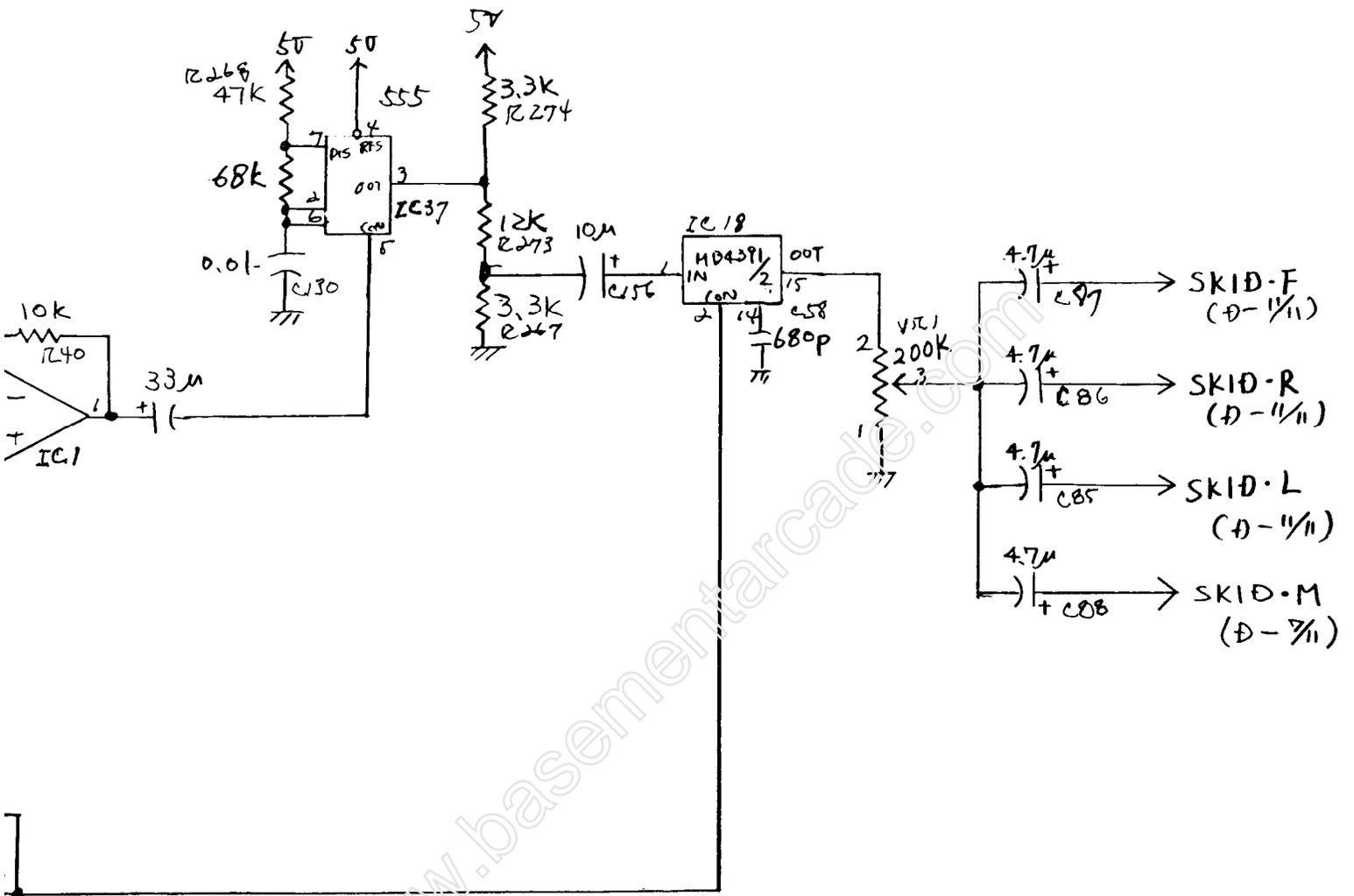
Sound Board
834-0123

Turbo Sound Alarm D-2/11

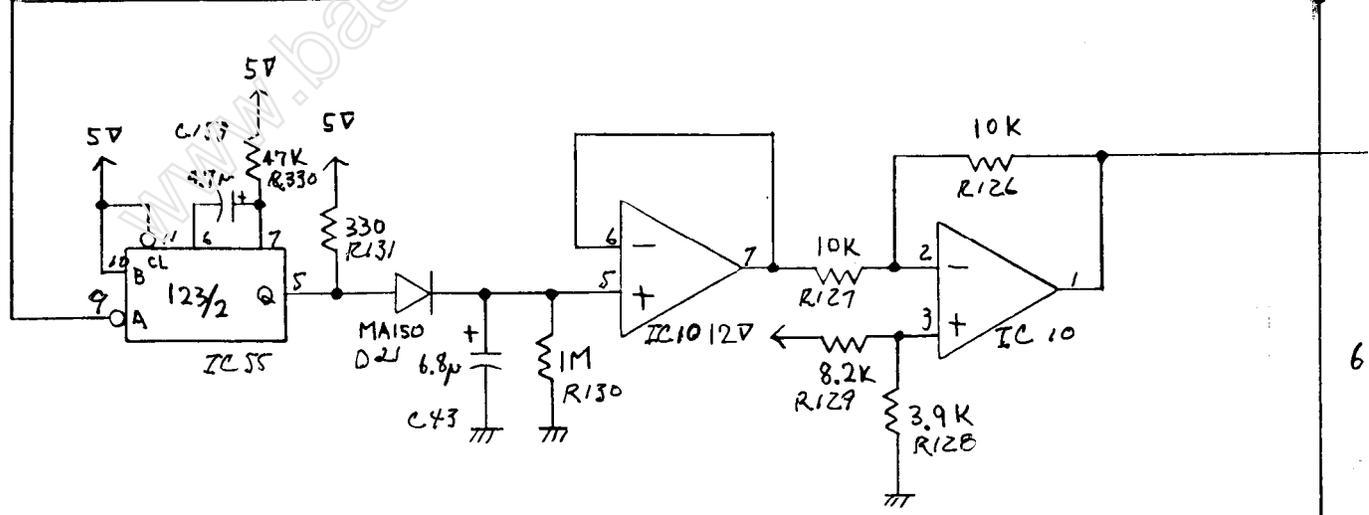
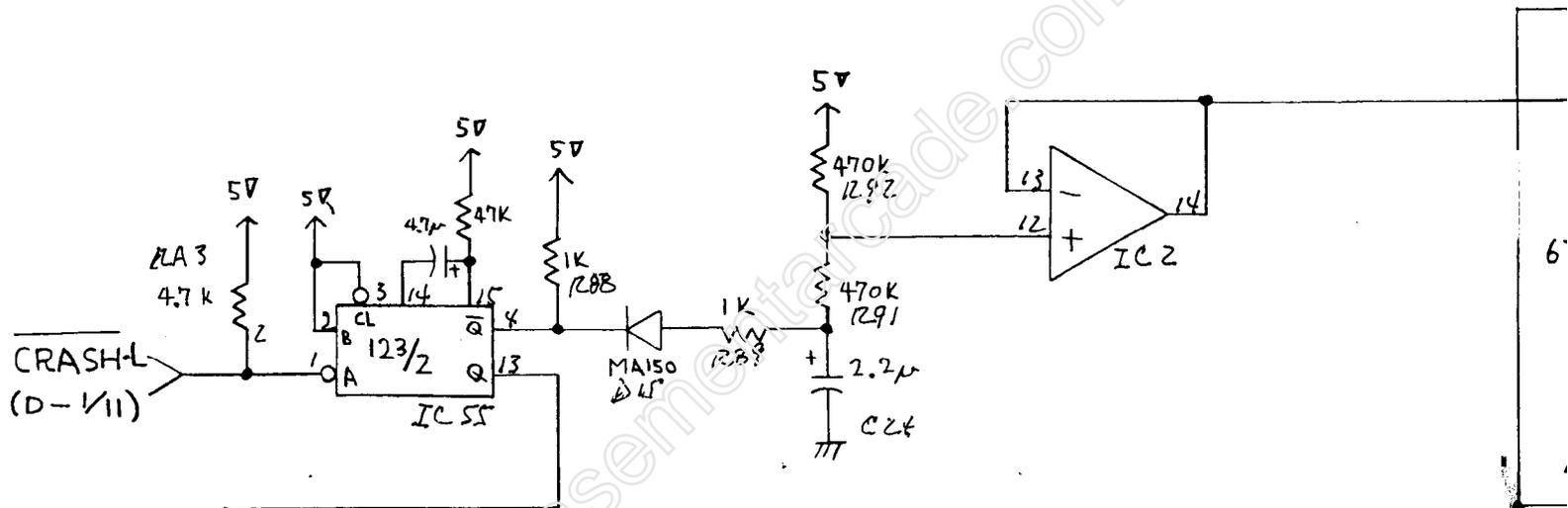
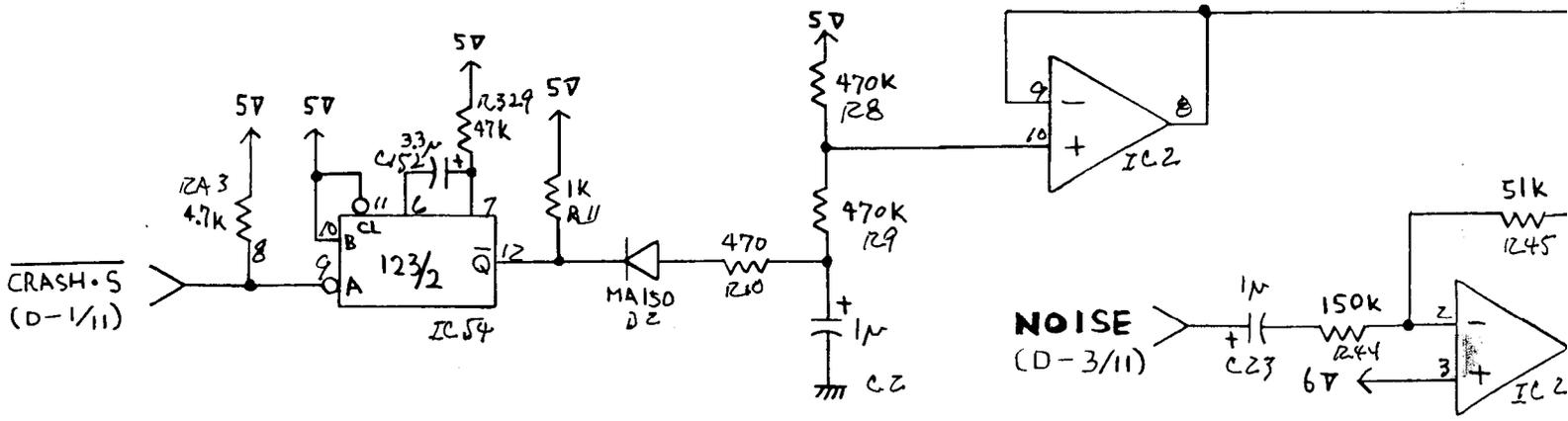


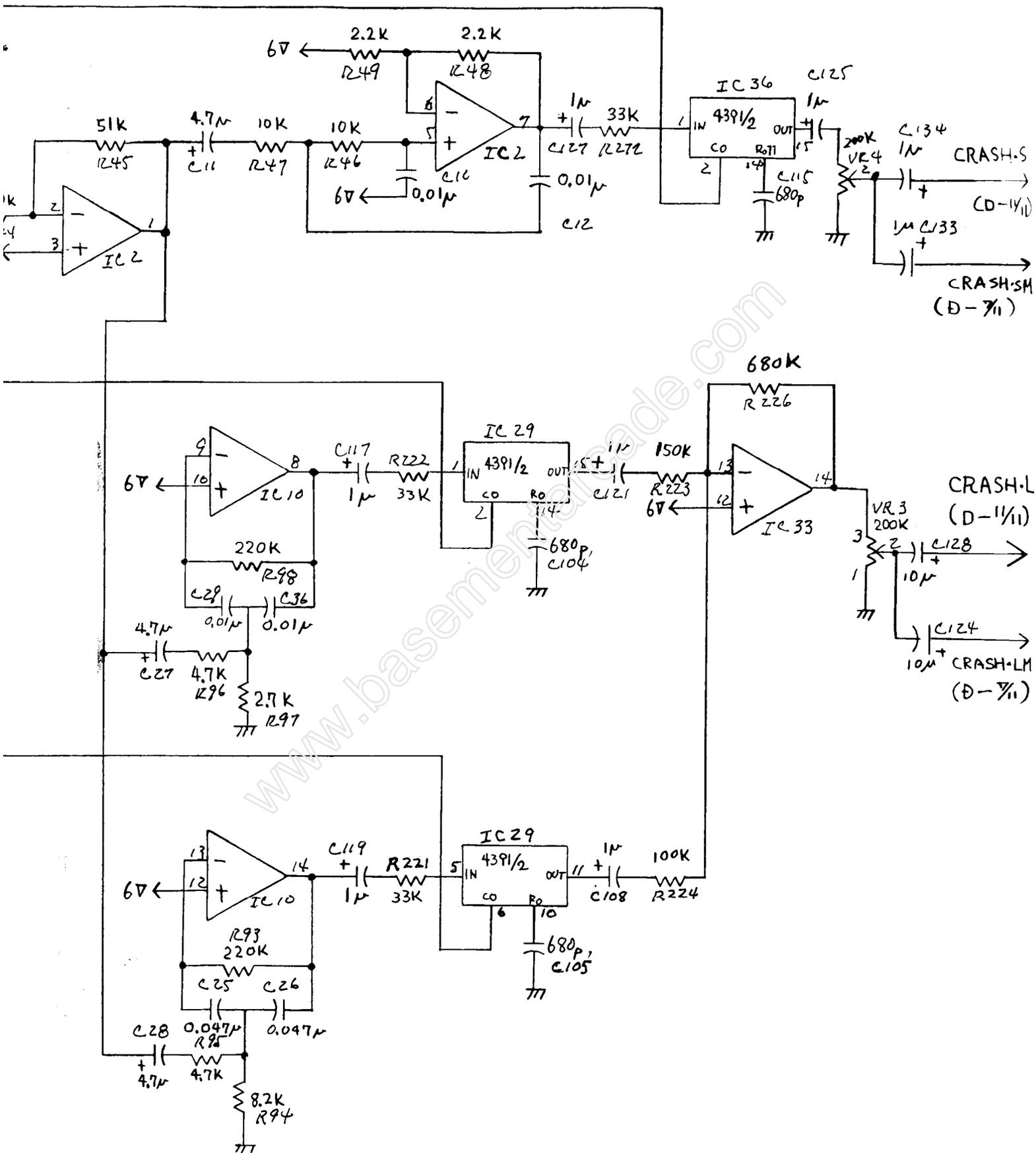
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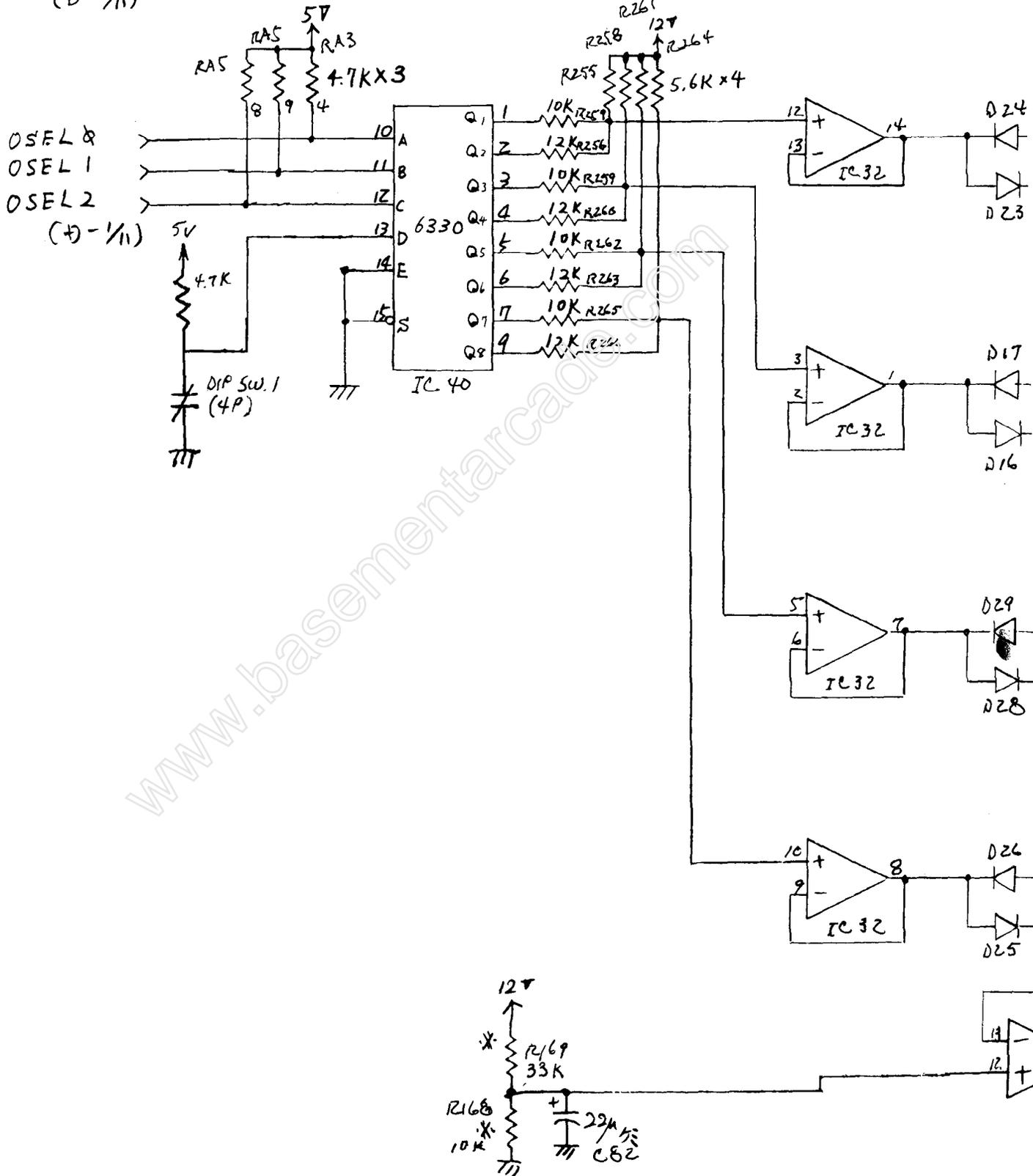
Sound Board
834-0123

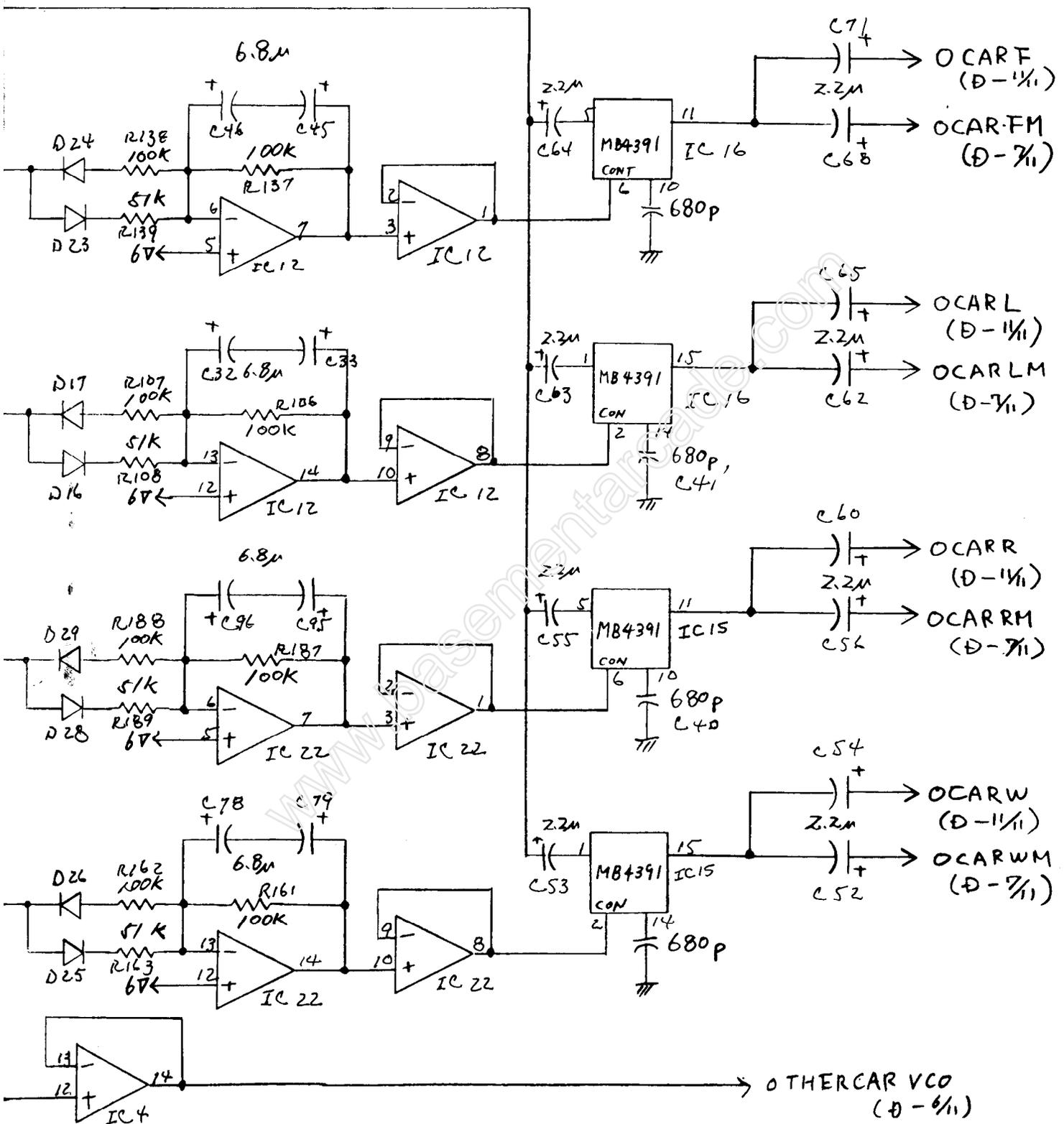




**Sound Board
834-0123**

OTHER CAR
(D-6/11)





**Sound Board
834-0123**

Sound Other Cars D-5/11 129



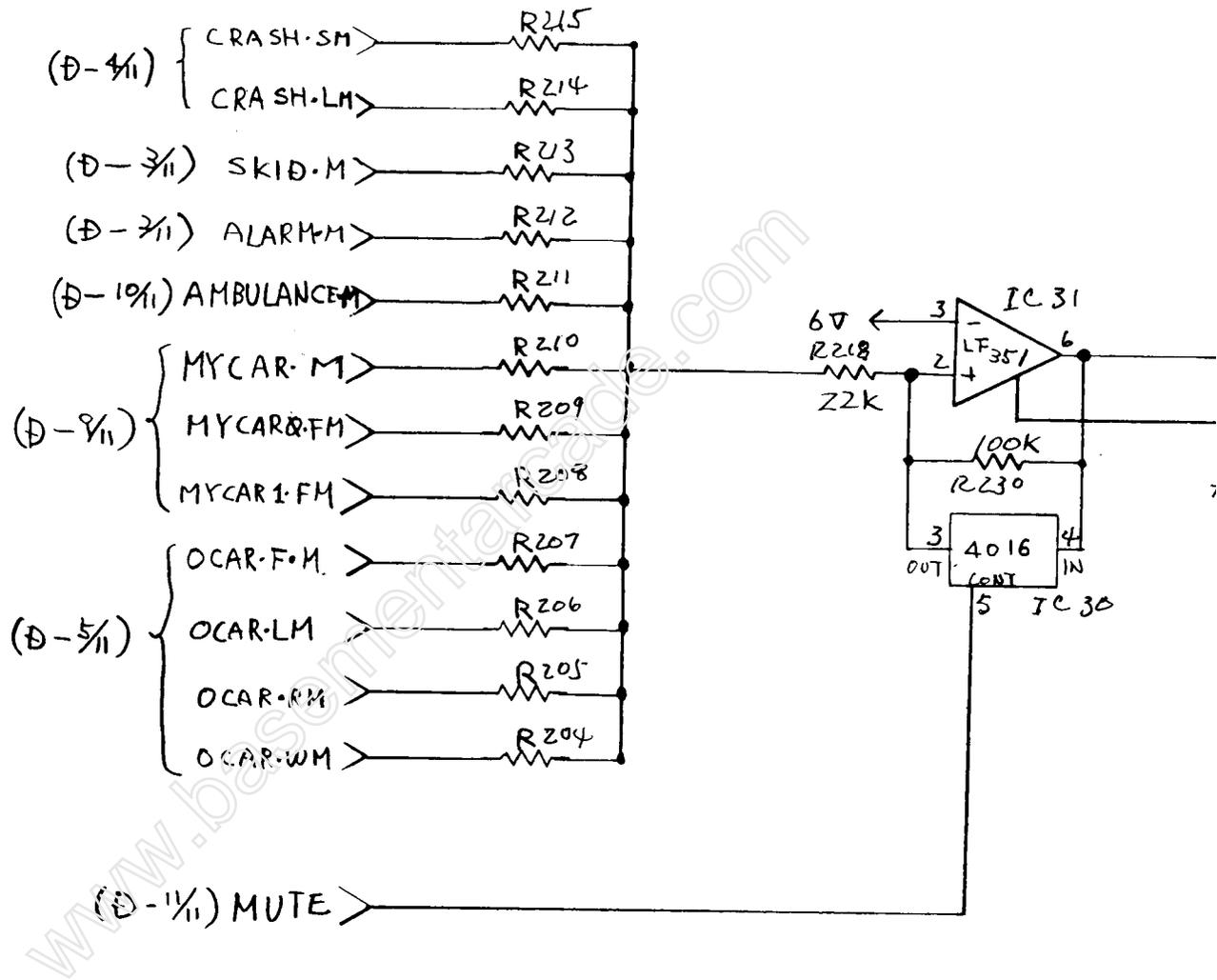
www.basementarcade.com

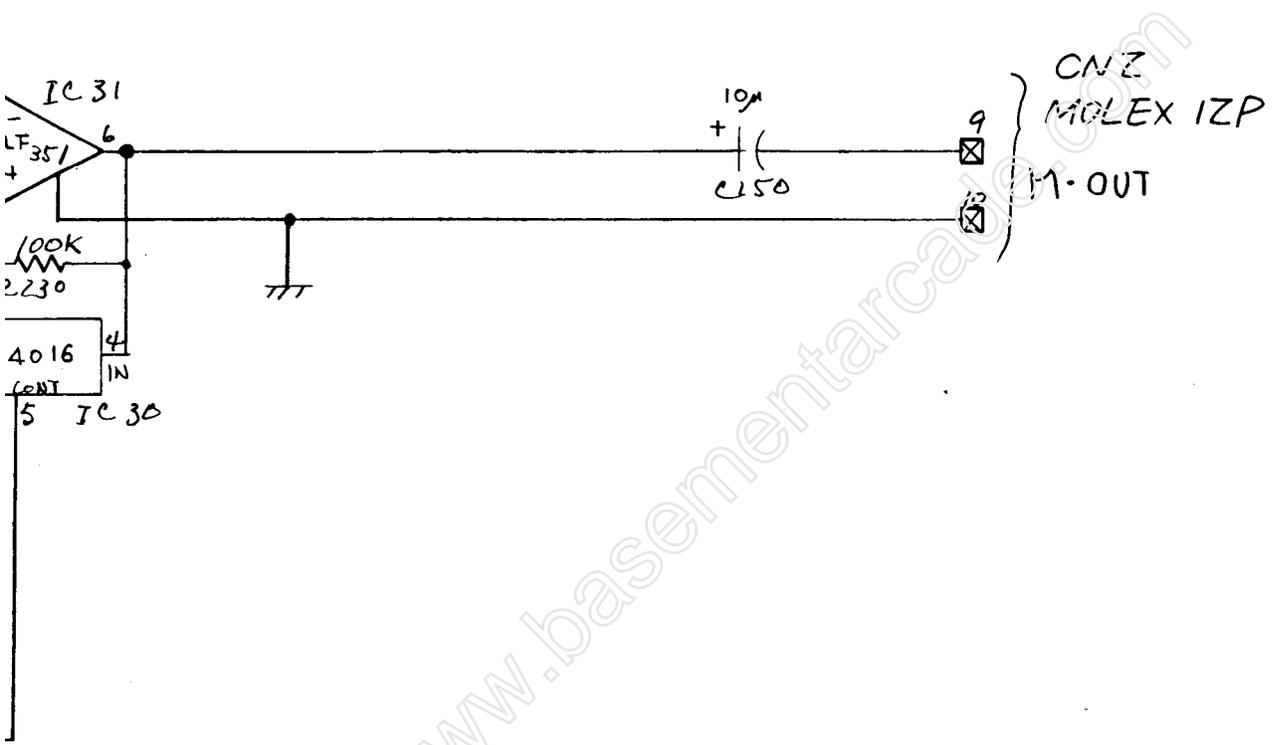
Sound Board

834-0123

Sound Other Cars OSC D-6/11 130

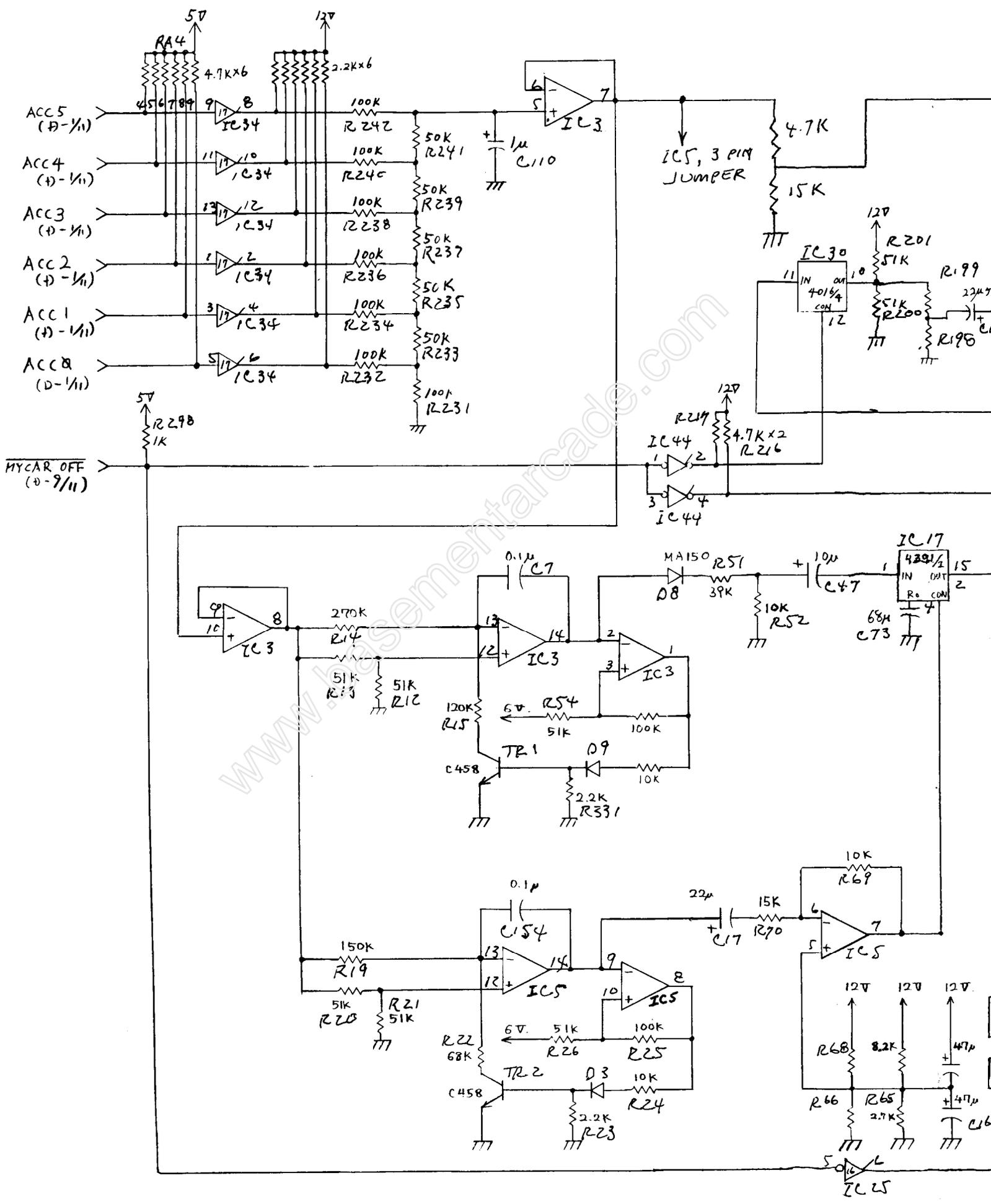
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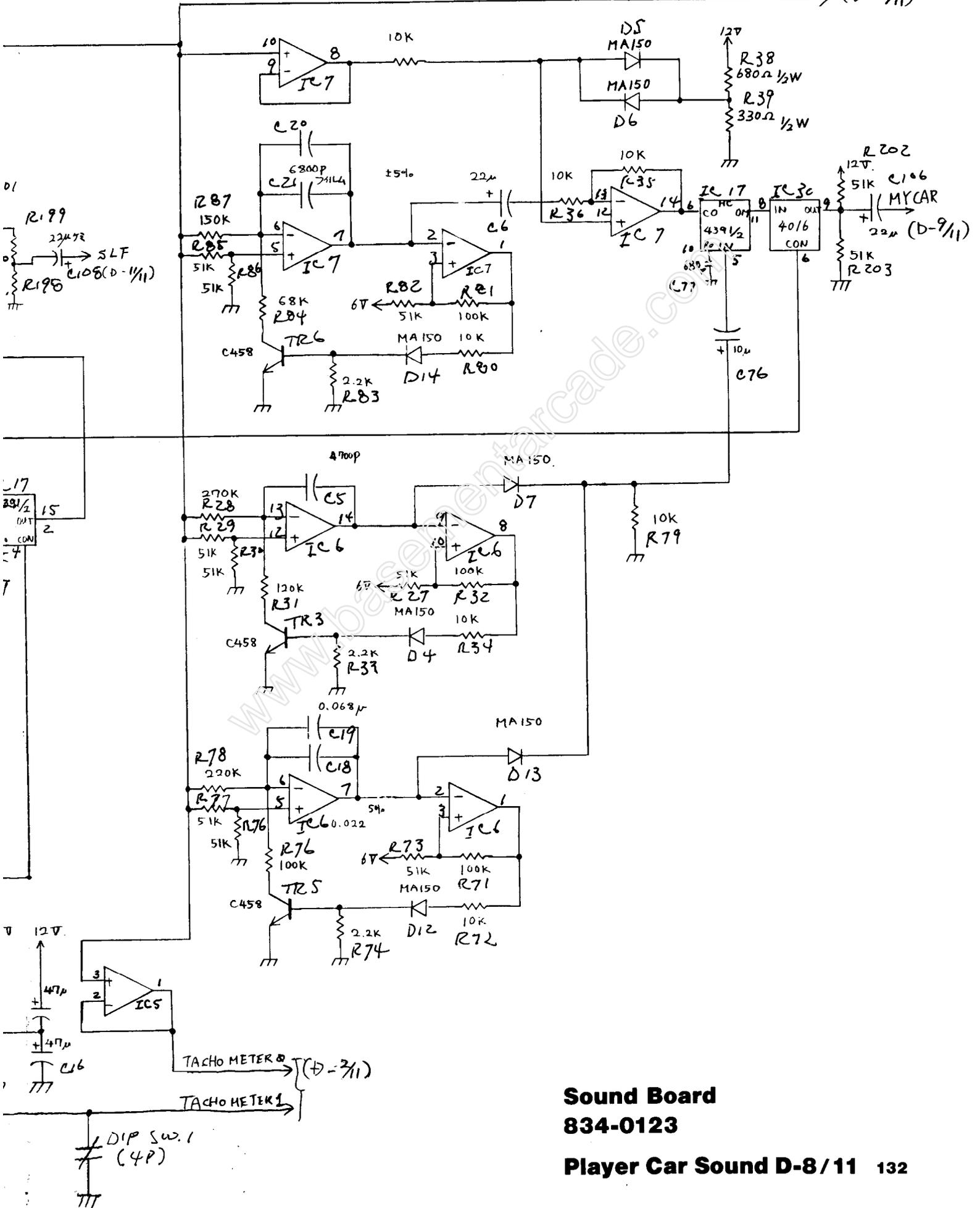


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**Sound Board
834-0123**

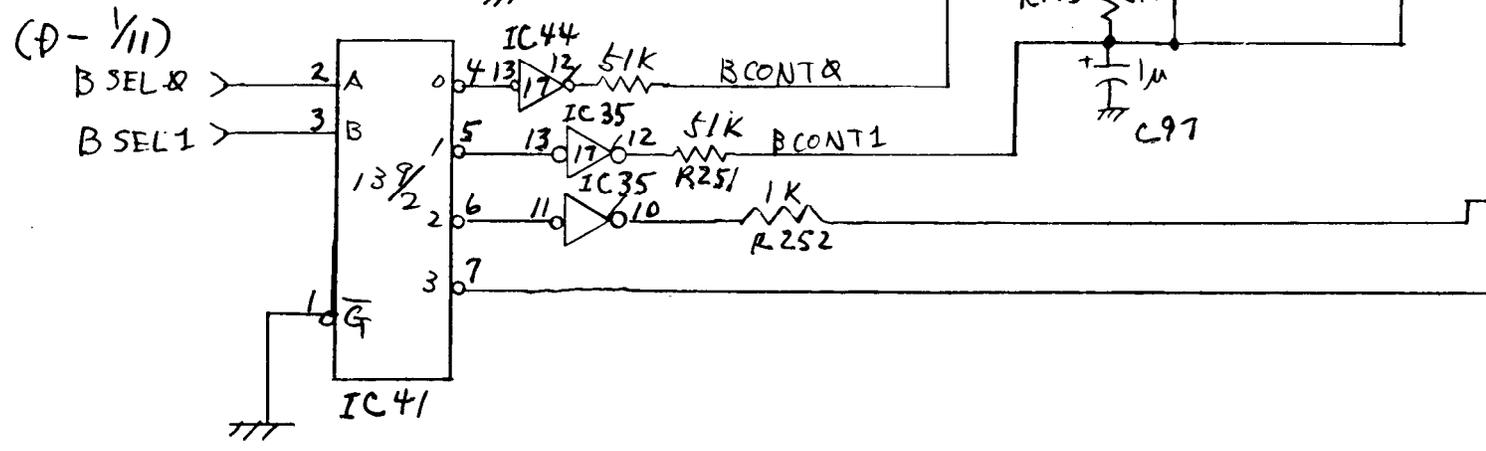
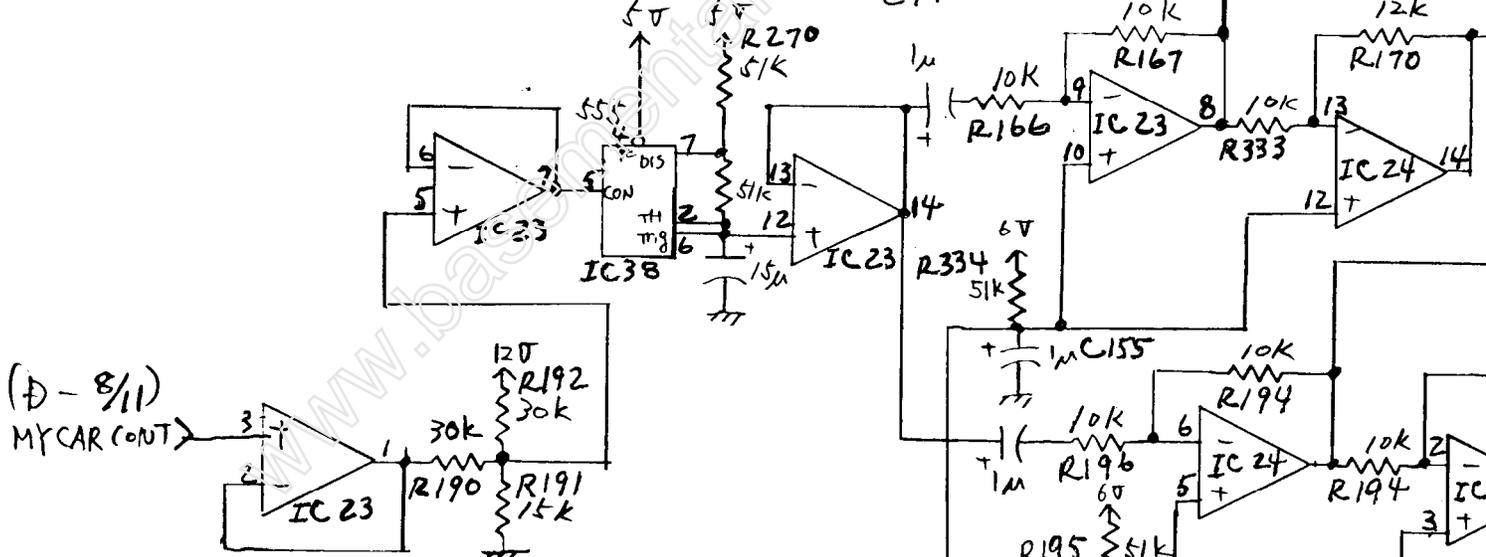
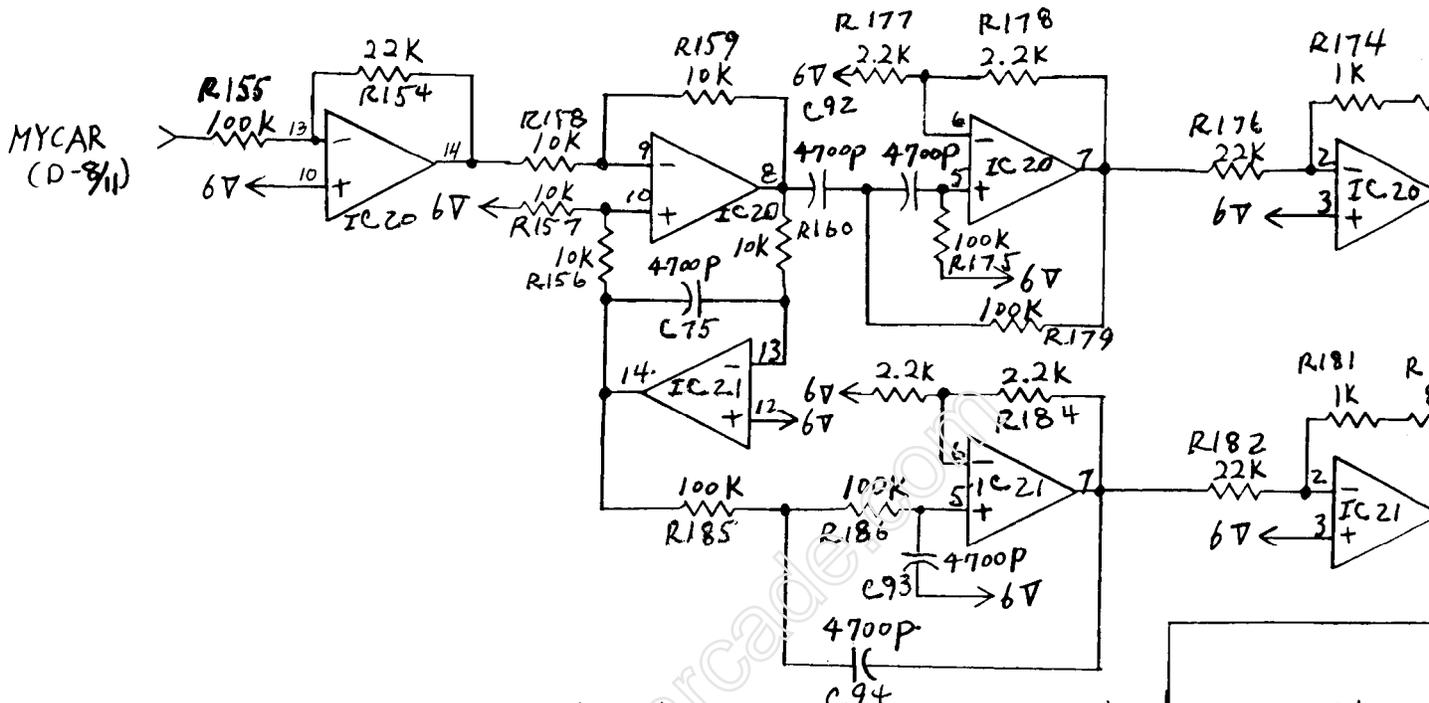


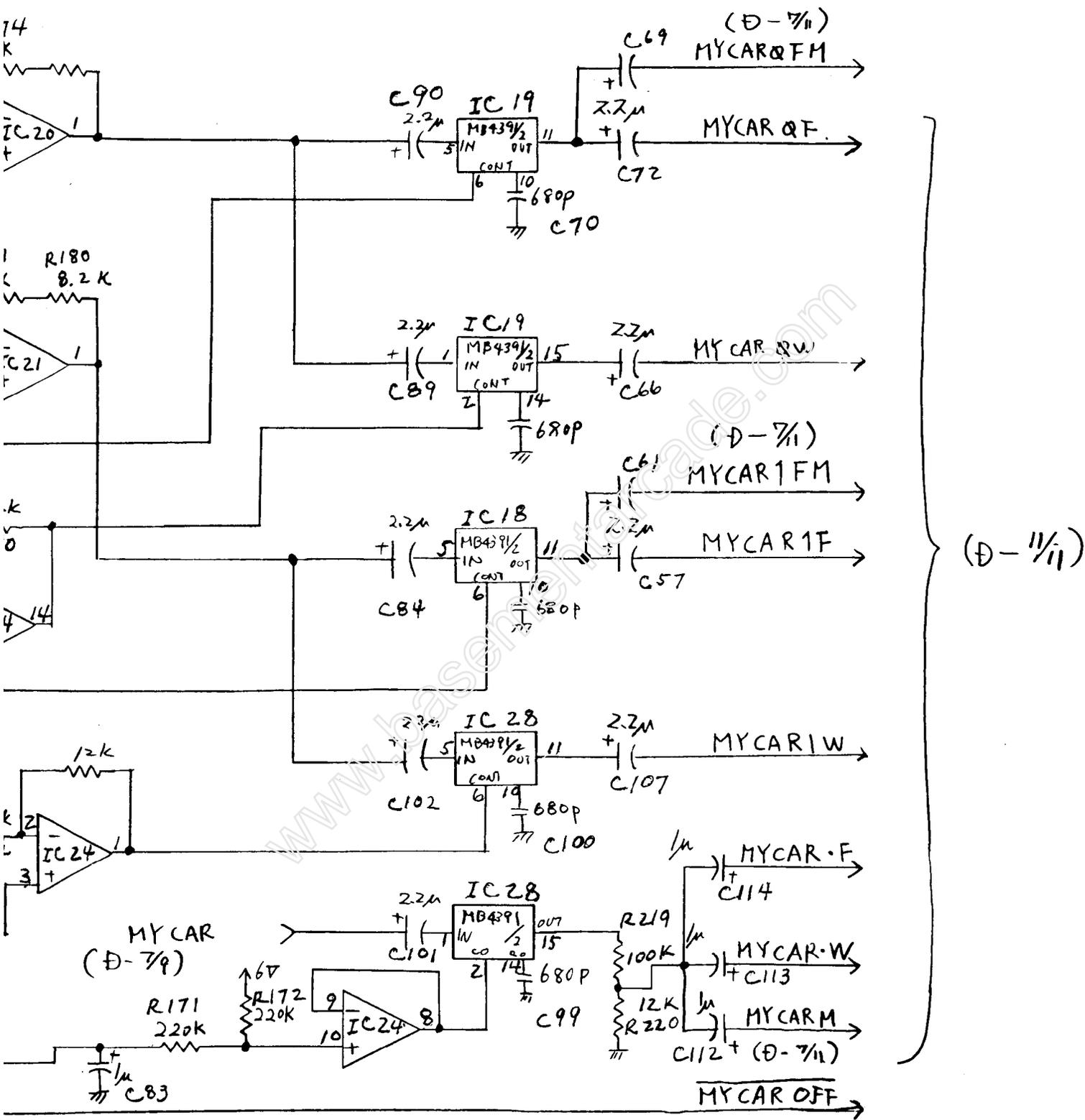
MYCAR CONT → (D-9/11)



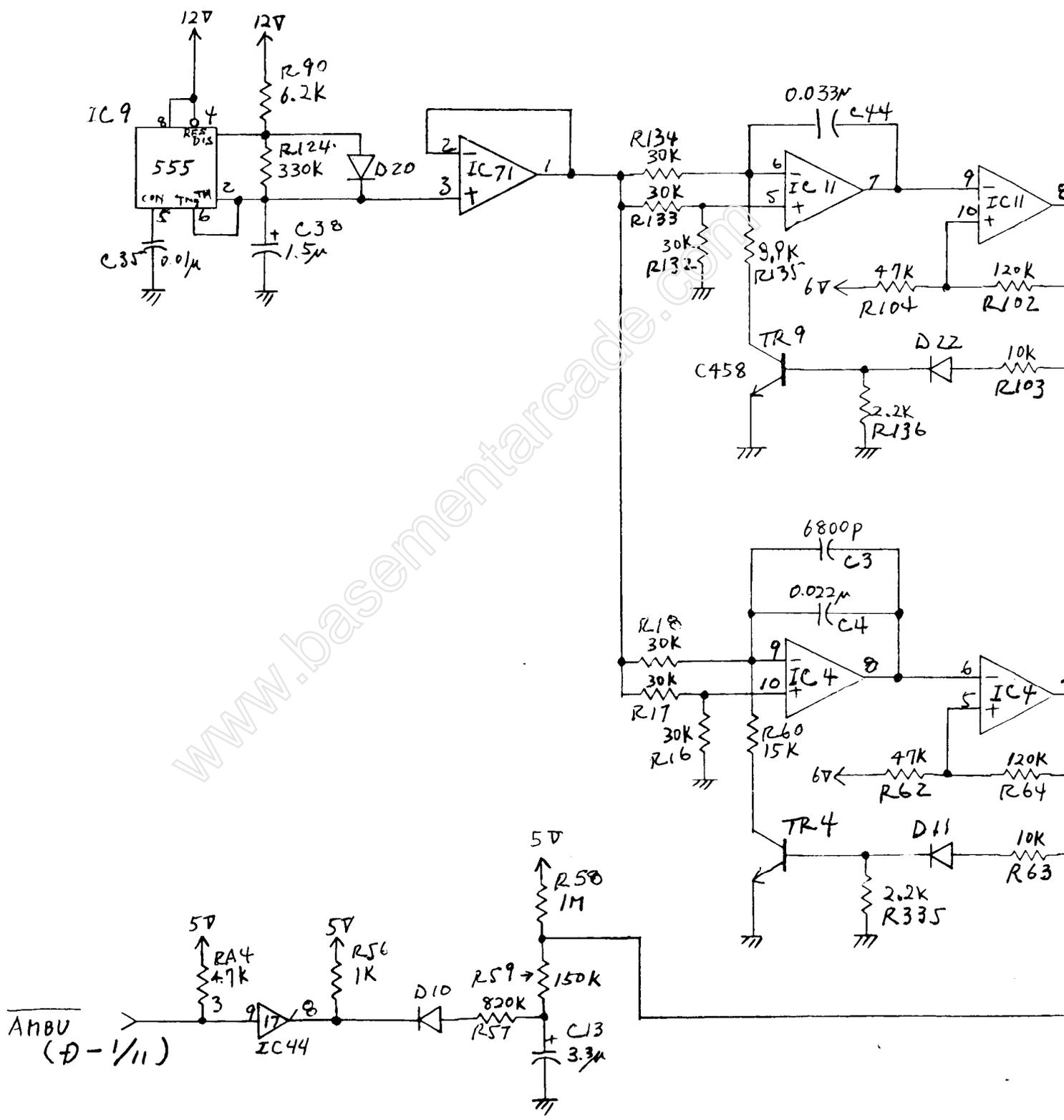
Sound Board
834-0123

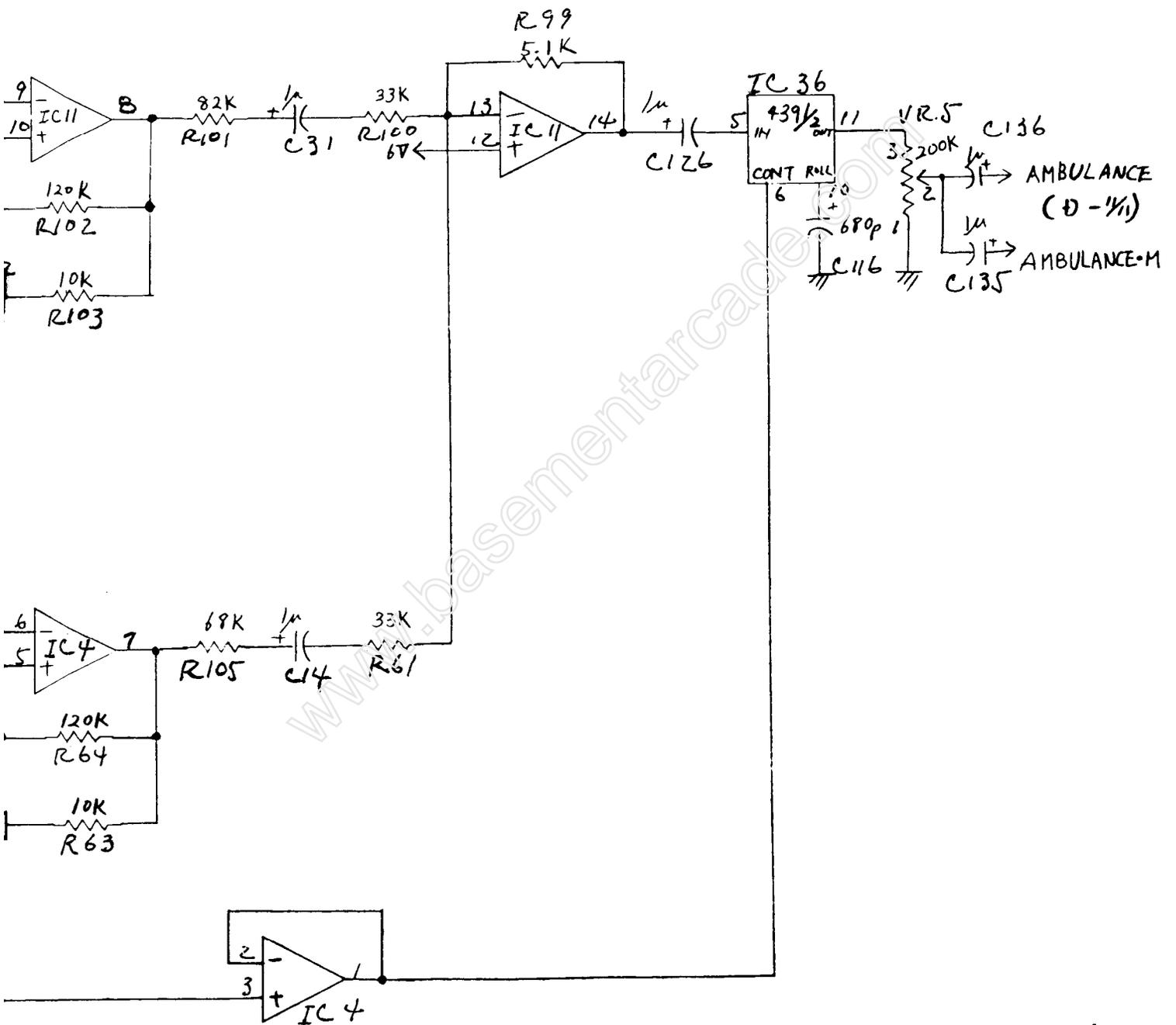
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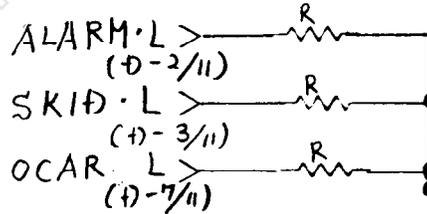
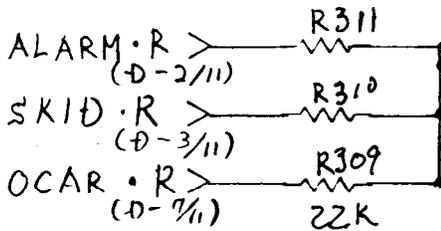
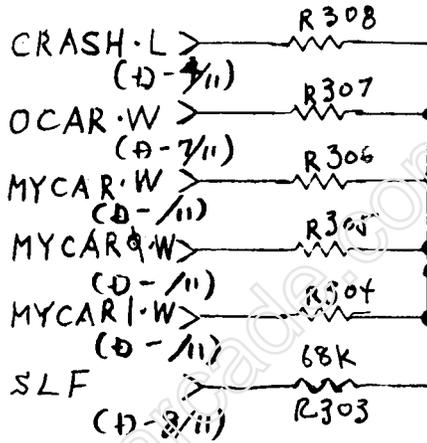
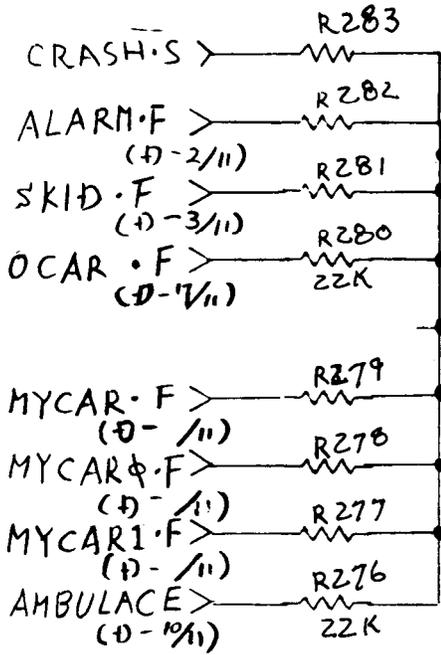
**Sound Board
834-0123**



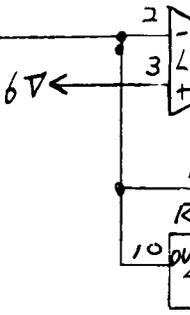


Sound Board
834-0123

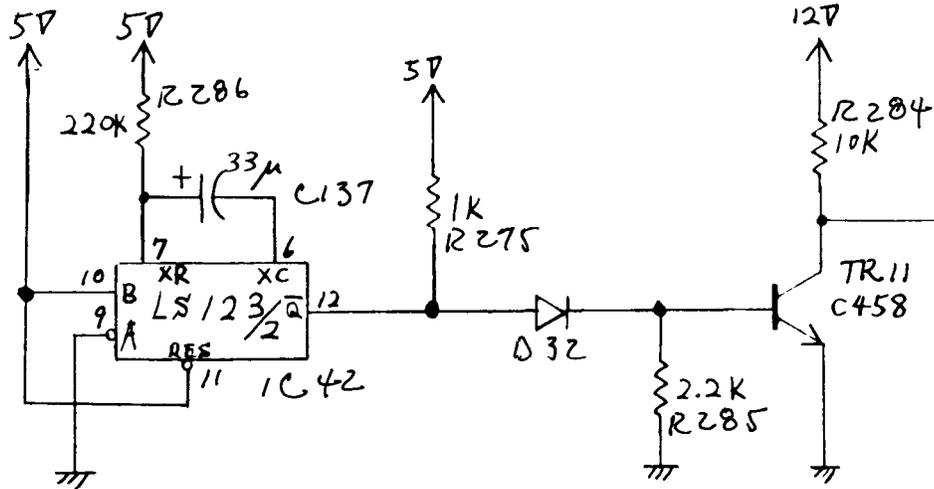
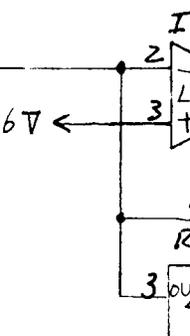
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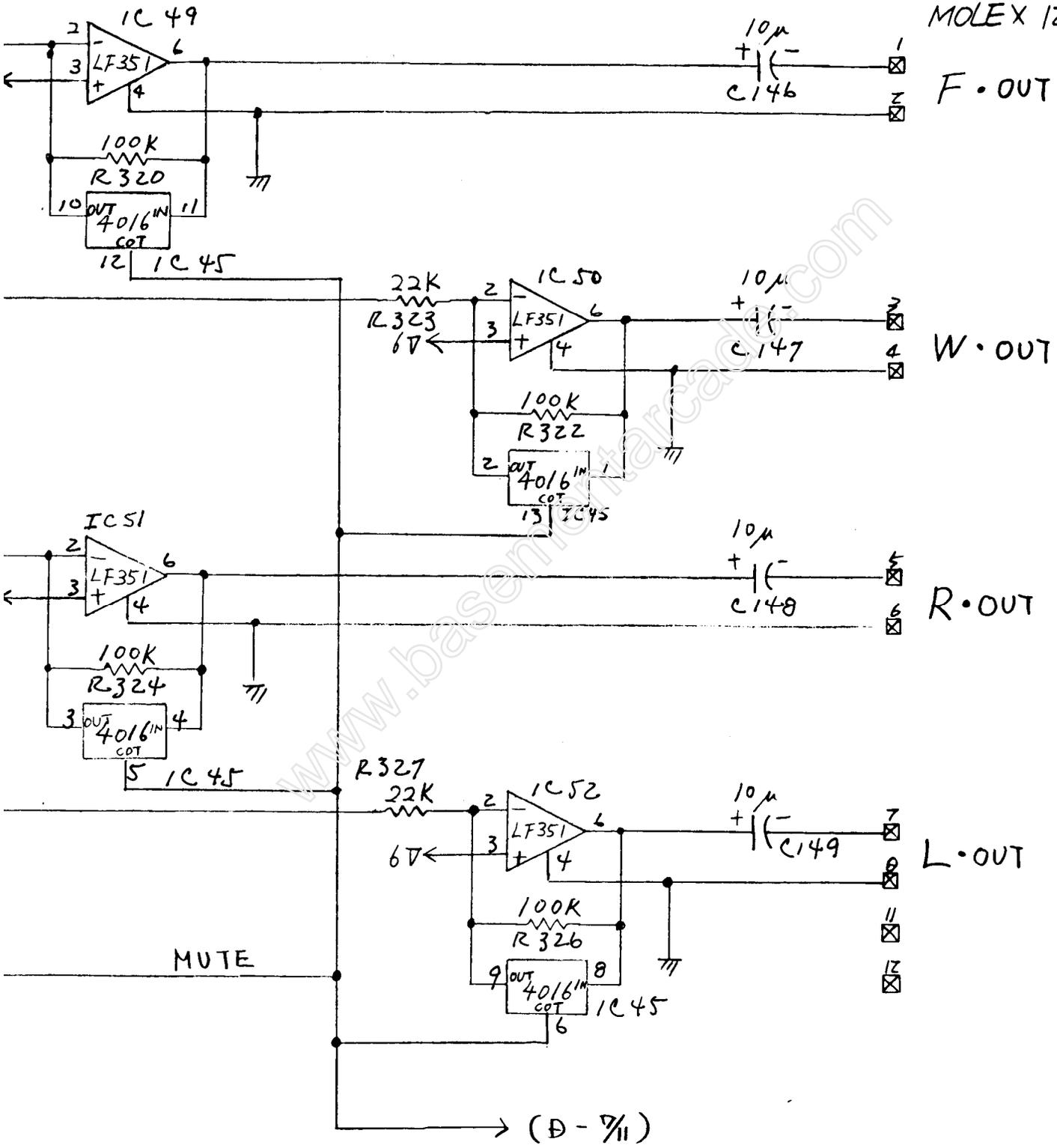
22K
R321



22K
R325



CN 2
MOLEX 12P



**Sound Board
834-0123**

8

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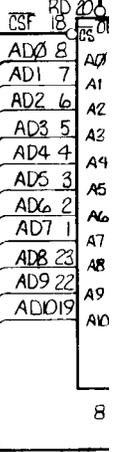
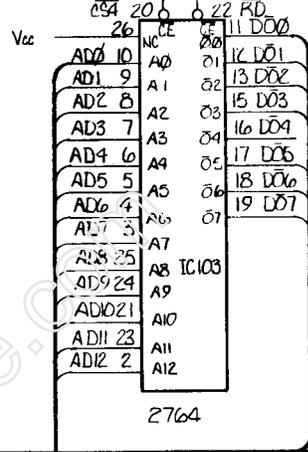
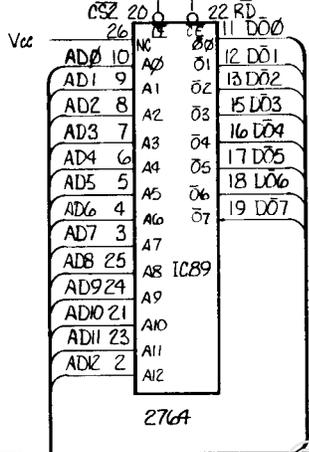
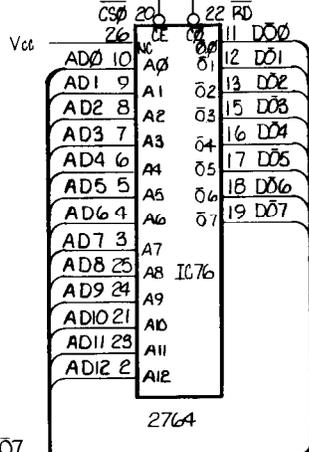
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WR RD

CS0 - CS4 CSF

D



D00 - D07

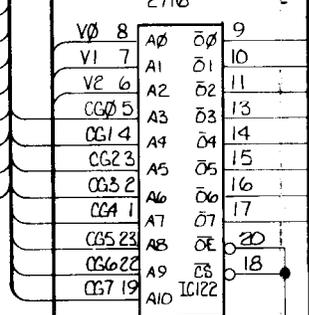
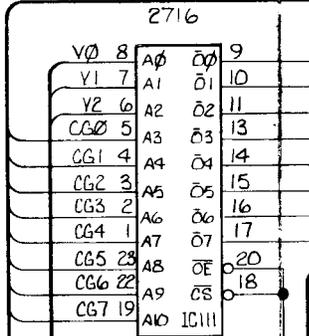
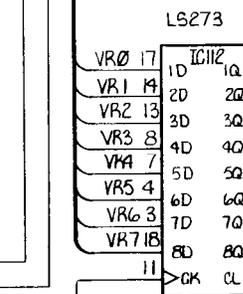
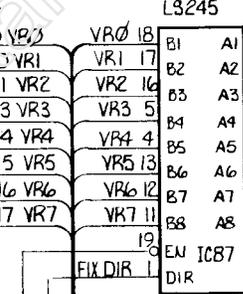
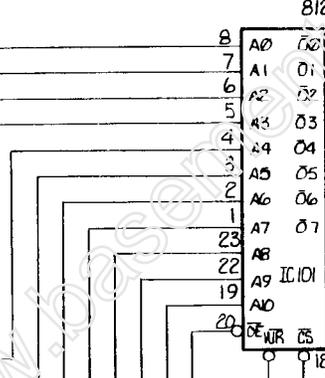
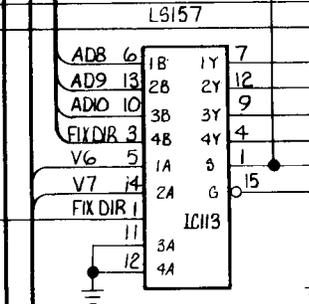
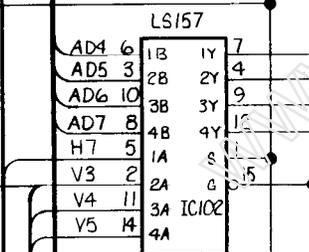
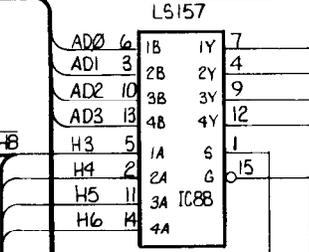
AD0 - AD10
FIX DIR

C

H0 - H8 HB
5M 5M

V0 - V7

FIX DIR
IC92-11



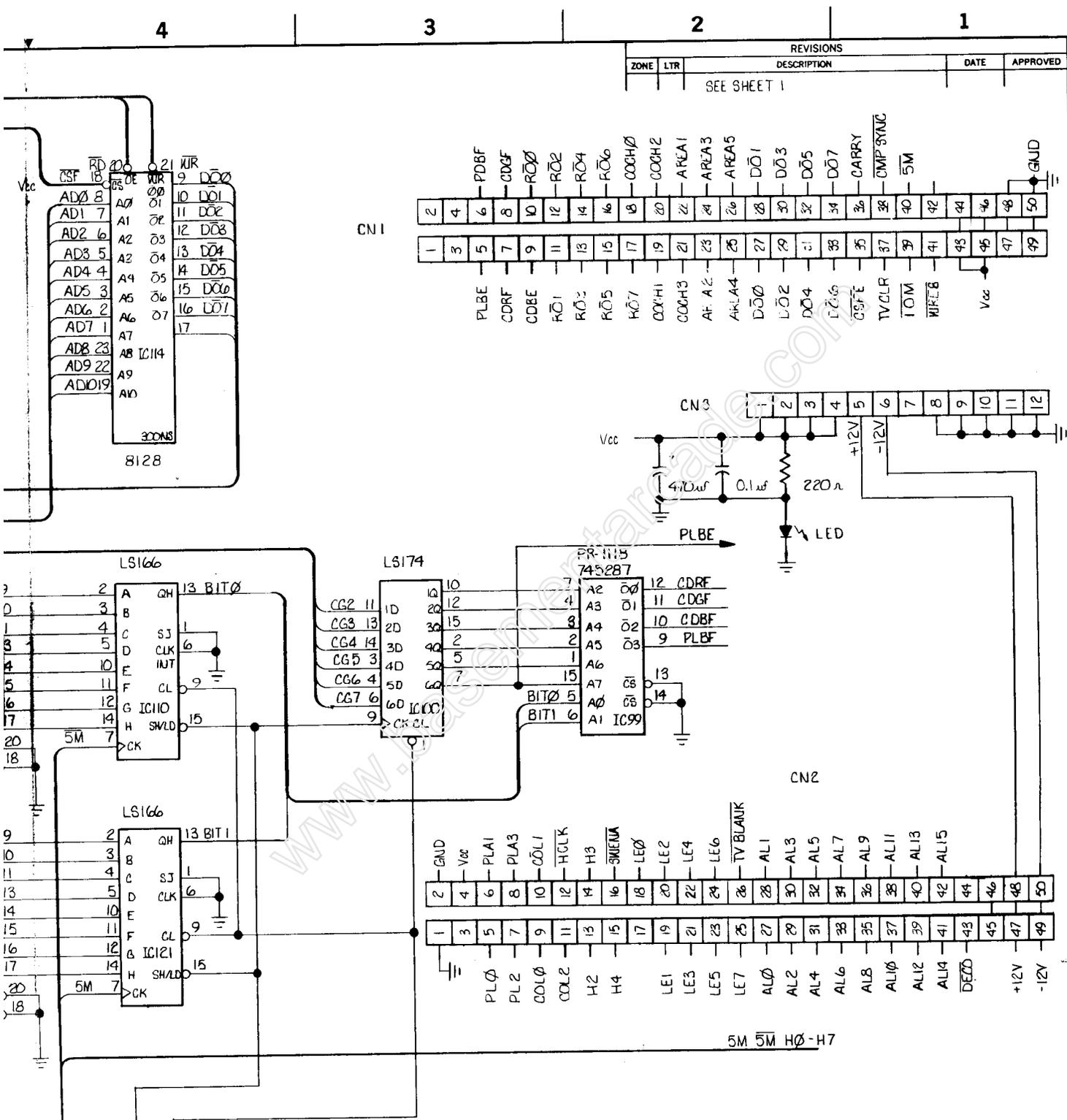
SFCD IC63-15
TV CLR

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5



REVISIONS				
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SEE SHEET 1				

QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO.		
FRACTIONS	DECIMALS	ANGLES	APPROVALS	
± 1/16	± .005	± 1/16	DATE	
MATERIAL		DRAWN DYNAPAC 12/81		
FINISH		CHECKED		
NEXT ASSY USED ON		MECH		
APPLICATION		ELEC		
DO NOT SCALE DRAWING		MFG		
		PROJECT		
		SIZE CODE IDENT NO. DRAWING NO. REV		
		834-0110		
		SCALE NONE SHEET 2 OF 7		

Gremlin/SCGA
San Diego, California 92123

CPU Board

834-0110

834-0110 137

8

7

6

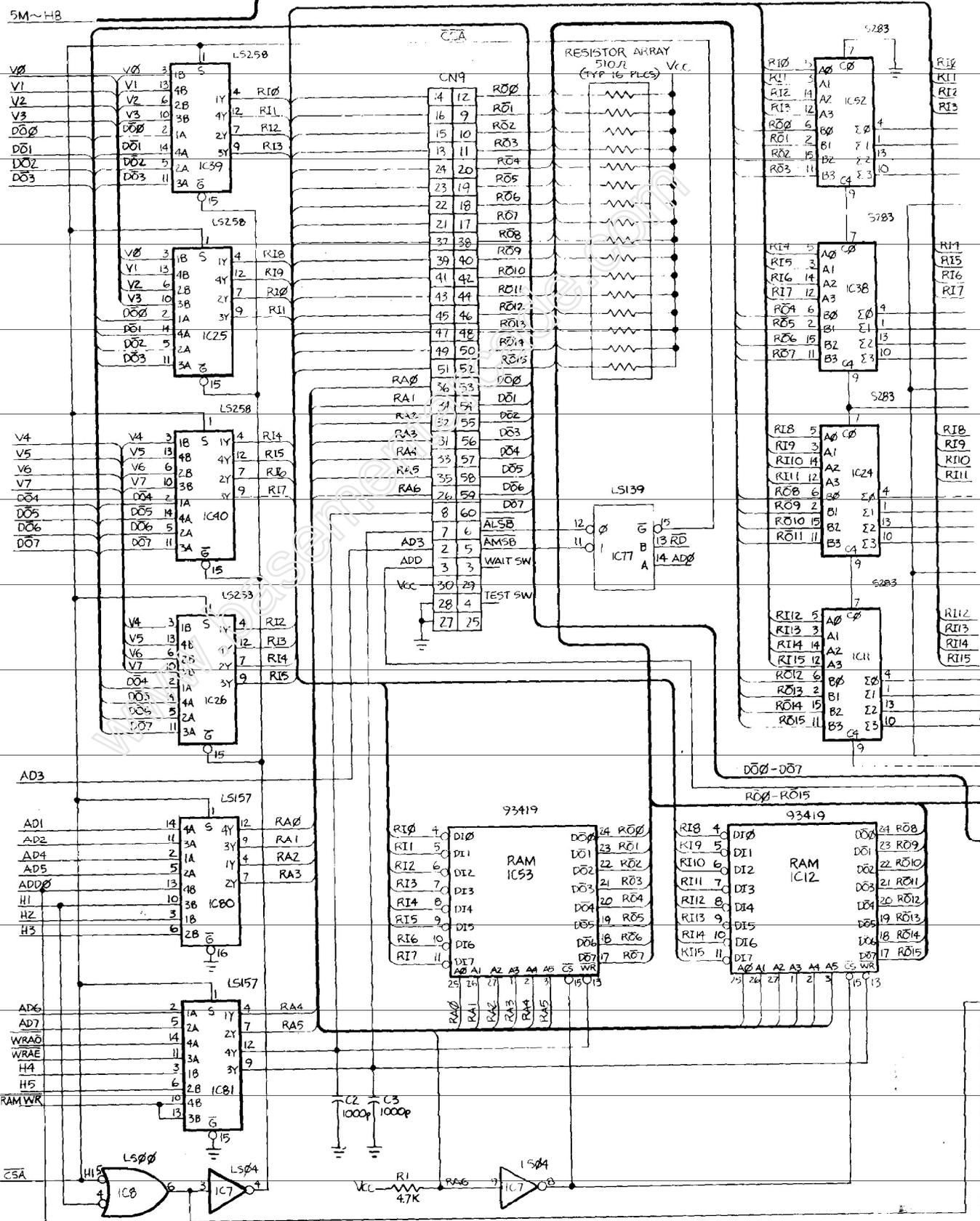
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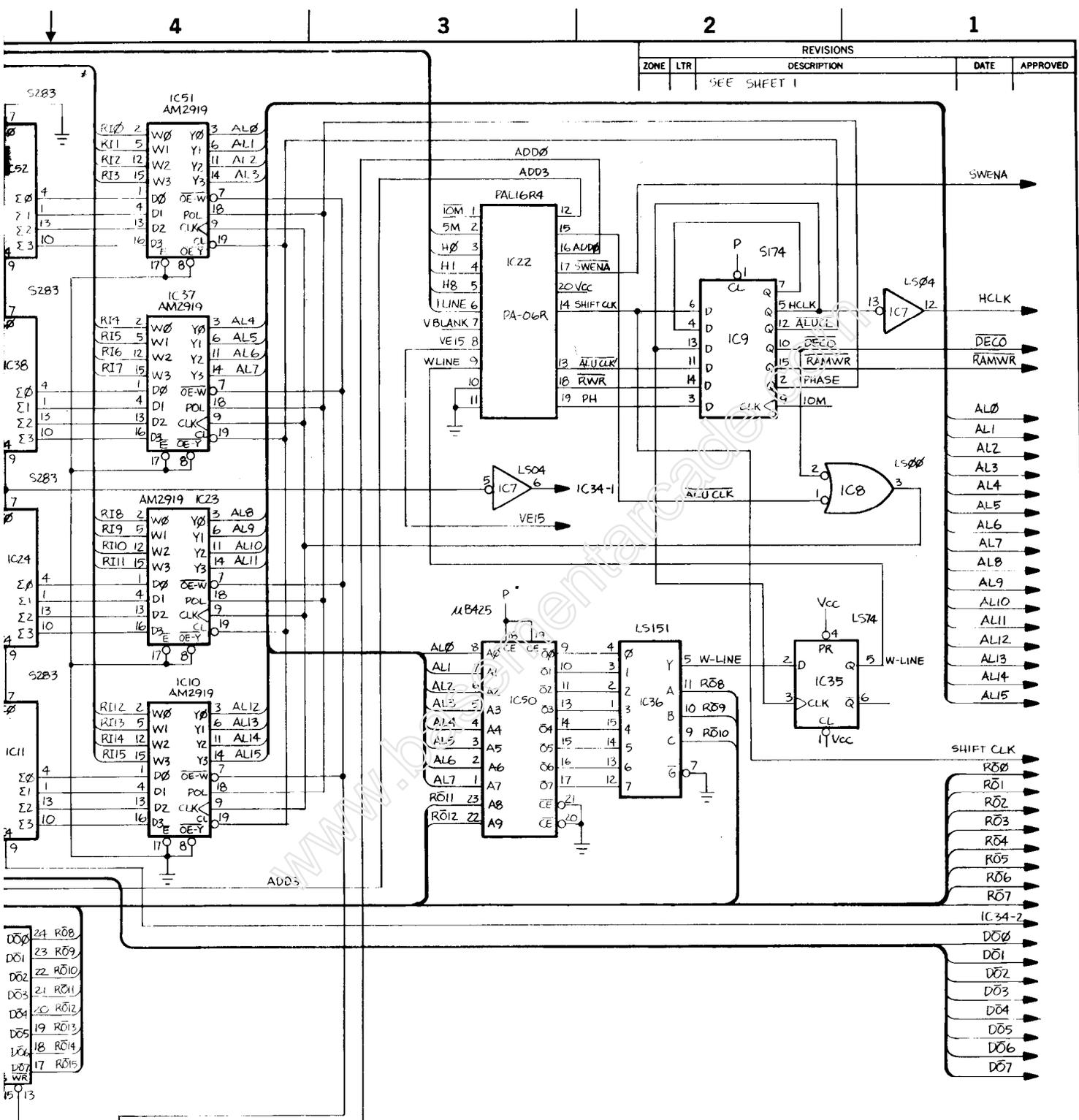
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C

B

A





REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
		SEE SHEET 1		

D
C
B

- D00 24 R08
- D01 23 R09
- D02 22 R10
- D03 21 R11
- D04 20 R12
- D05 19 R13
- D06 18 R14
- D07 17 R15

- AL0
- AL1
- AL2
- AL3
- AL4
- AL5
- AL6
- AL7
- AL8
- AL9
- AL10
- AL11
- AL12
- AL13
- AL14
- AL15
- SHIFT CLK
- R00
- R01
- R02
- R03
- R04
- R05
- R06
- R07
- IC34-2
- D00
- D01
- D02
- D03
- D04
- D05
- D06
- D07

QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO.		
FRACTIONS ± .XX	DECIMALS ± .XX	ANGLES ± .XX	APPROVALS DATE	
MATERIAL		DRAWN DYNA PAC SA 12-81		
FINISH		CHECKED		
NEXT ASSY USED ON		MECH		
APPLICATION		ELEC		
DO NOT SCALE DRAWING		MFG		
		PROJECT		
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		D 834-0110		
		SCALE SHEET 3 OF 7		

A

8

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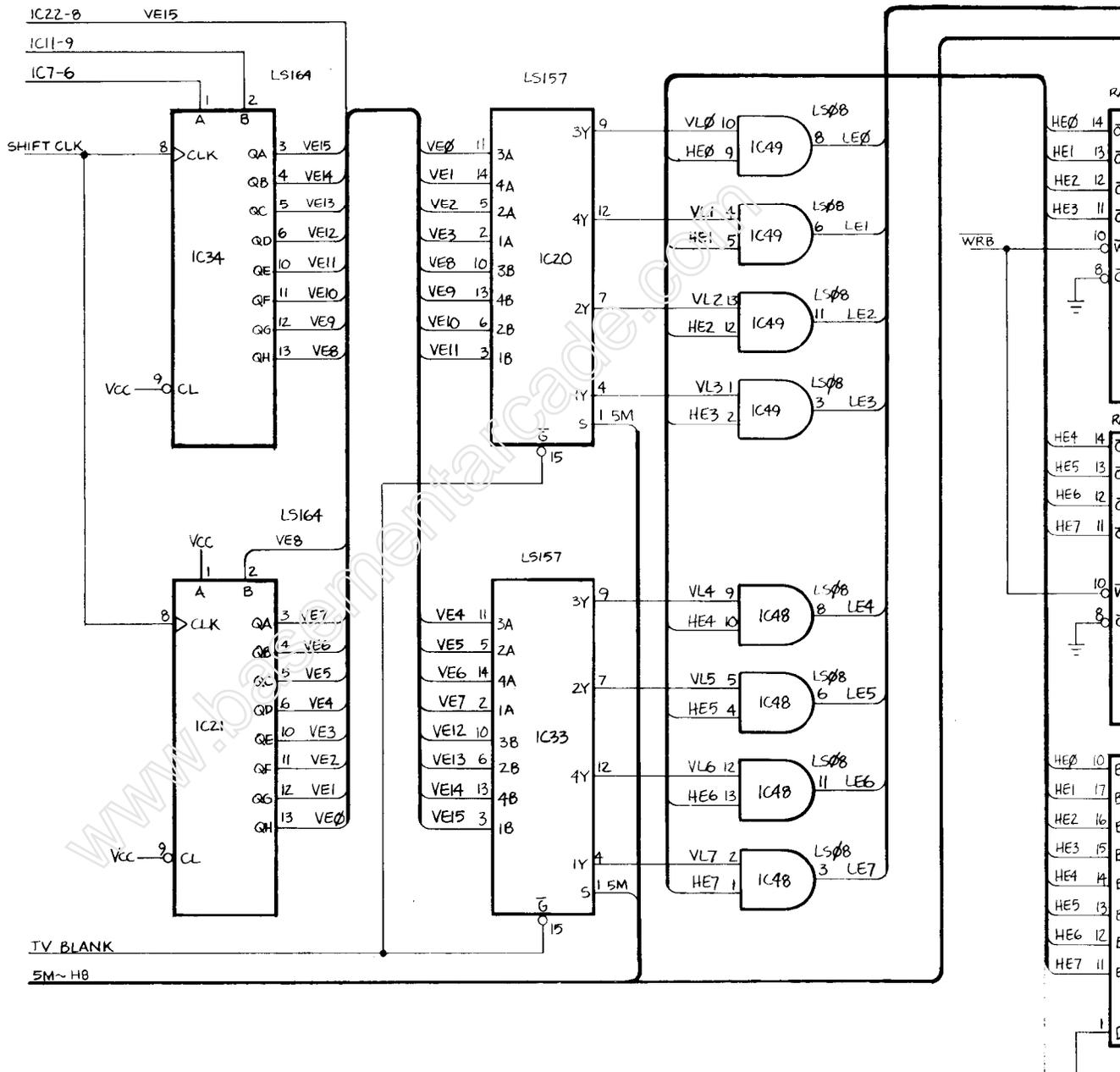
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D

C

B

A



D00 D07
 A00~A10 IC77-14

8

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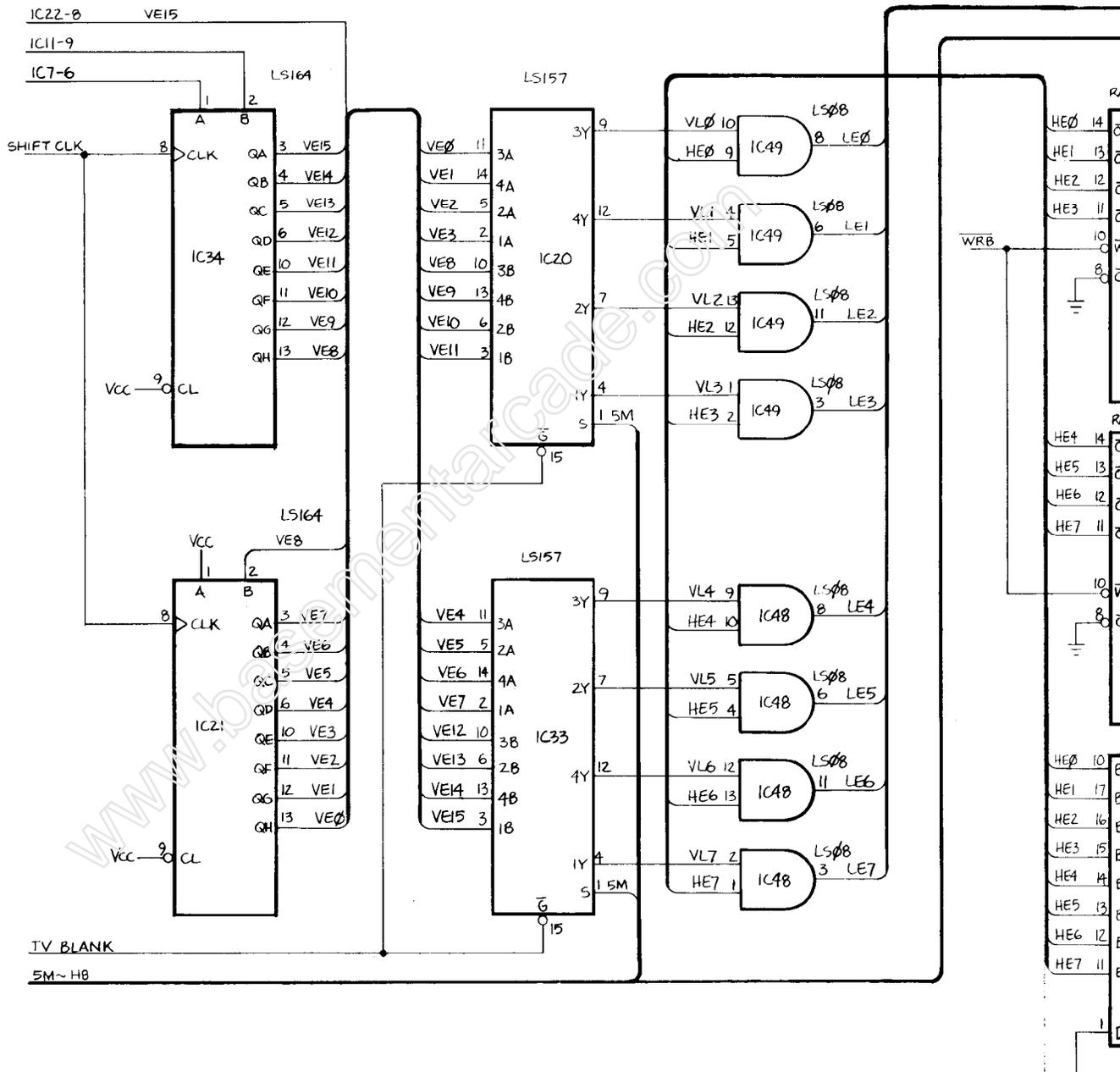
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D

C

B

A



TV BLANK
5M~H8

D08 D07

AD0~AD10 IC77-14

8

7

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1

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
		SEE SHEET 1		

LE0~LE7

H2~H4

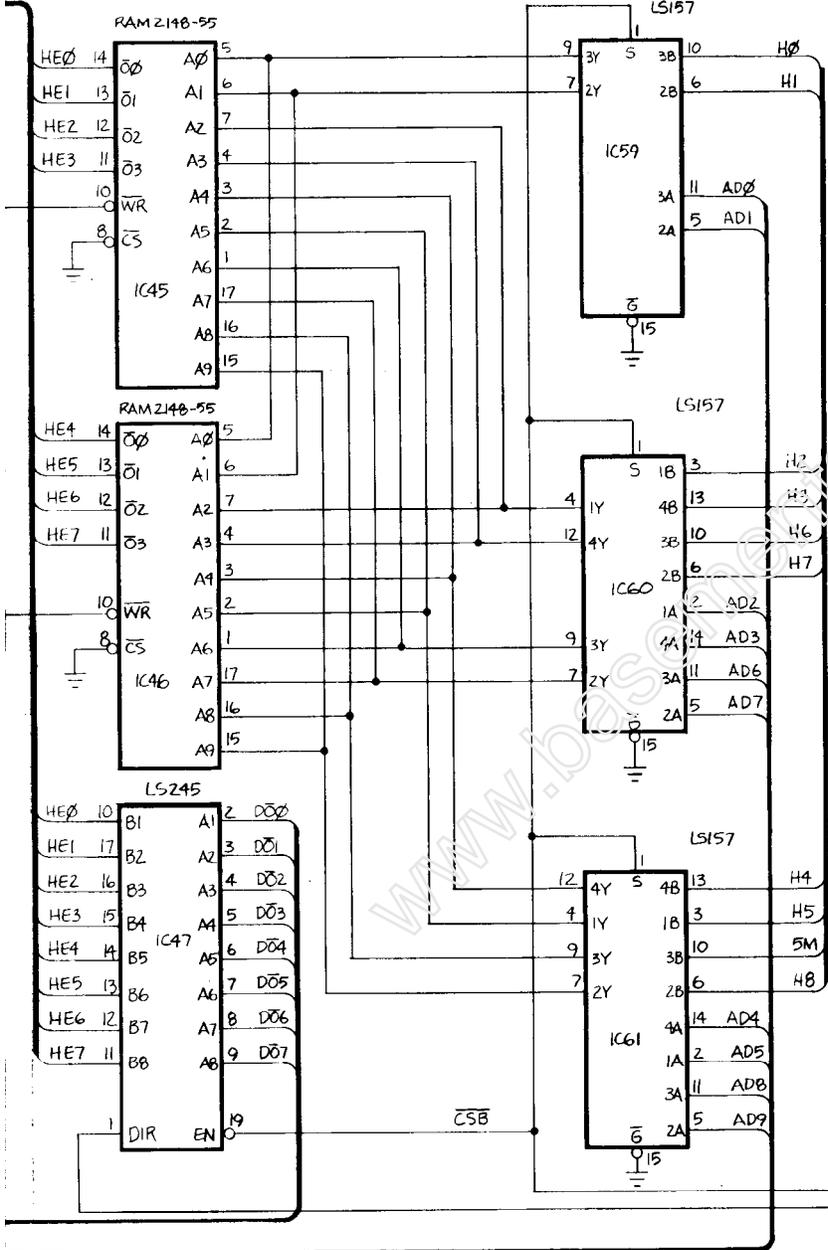
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C

B

834-0110

A



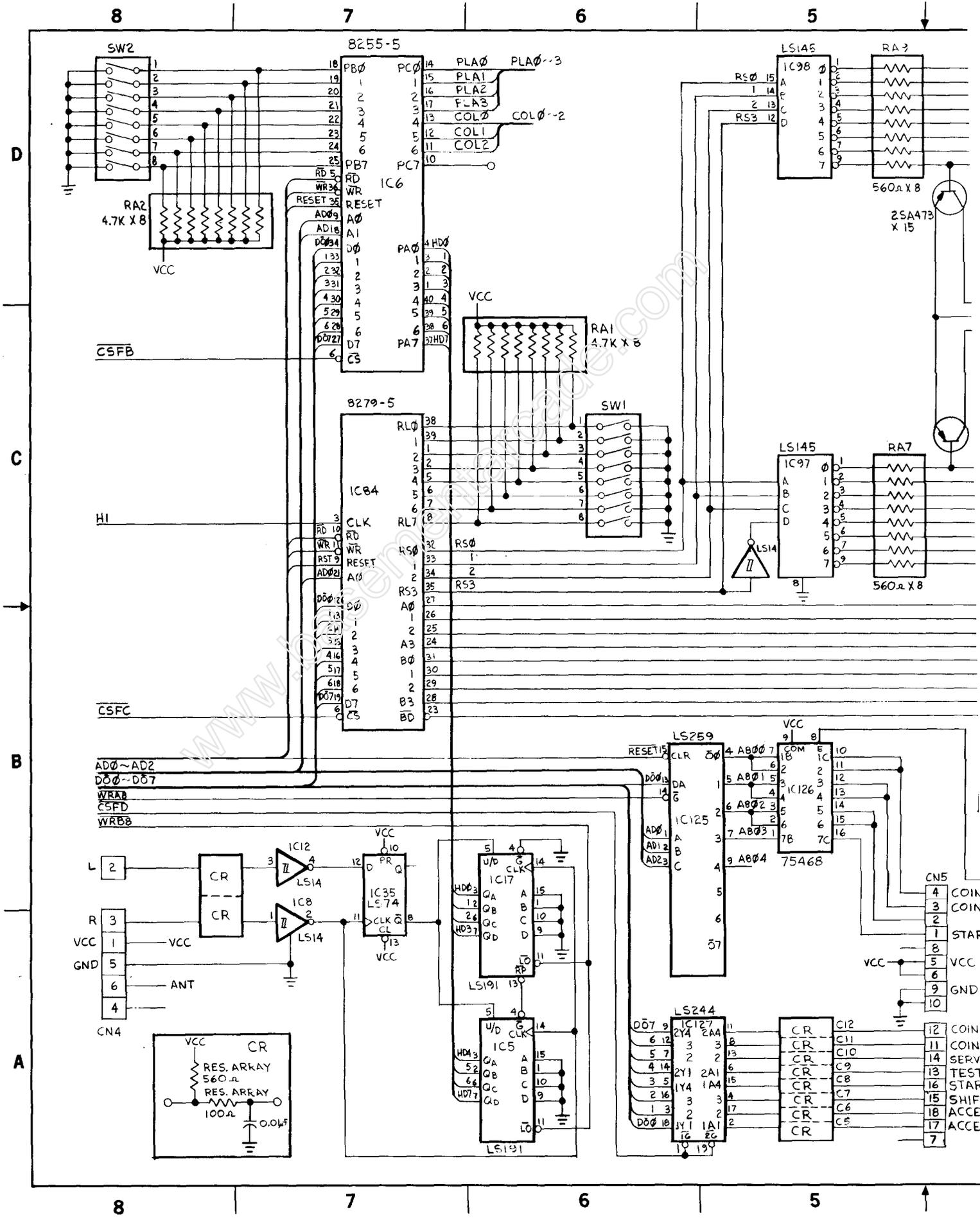
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PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO.		
FRACTIONS DECIMALS ANGLES		APPROVALS DATE		
± — # — .XX ± # ± #		DRAWN DYNA PAC SA 12-81		
± .XXX ± # —		CHECKED		
MATERIAL		MECH		
FINISH		ELEC		
NEXT ASSY USED ON		MFG		
APPLICATION		PROJECT		
DO NOT SCALE DRAWING		SIZE CODE IDENT NO. DRAWING NO. REV		
		D 834-0110		
SCALE — # —		SHEET 4 OF 7		

4

3

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1



8

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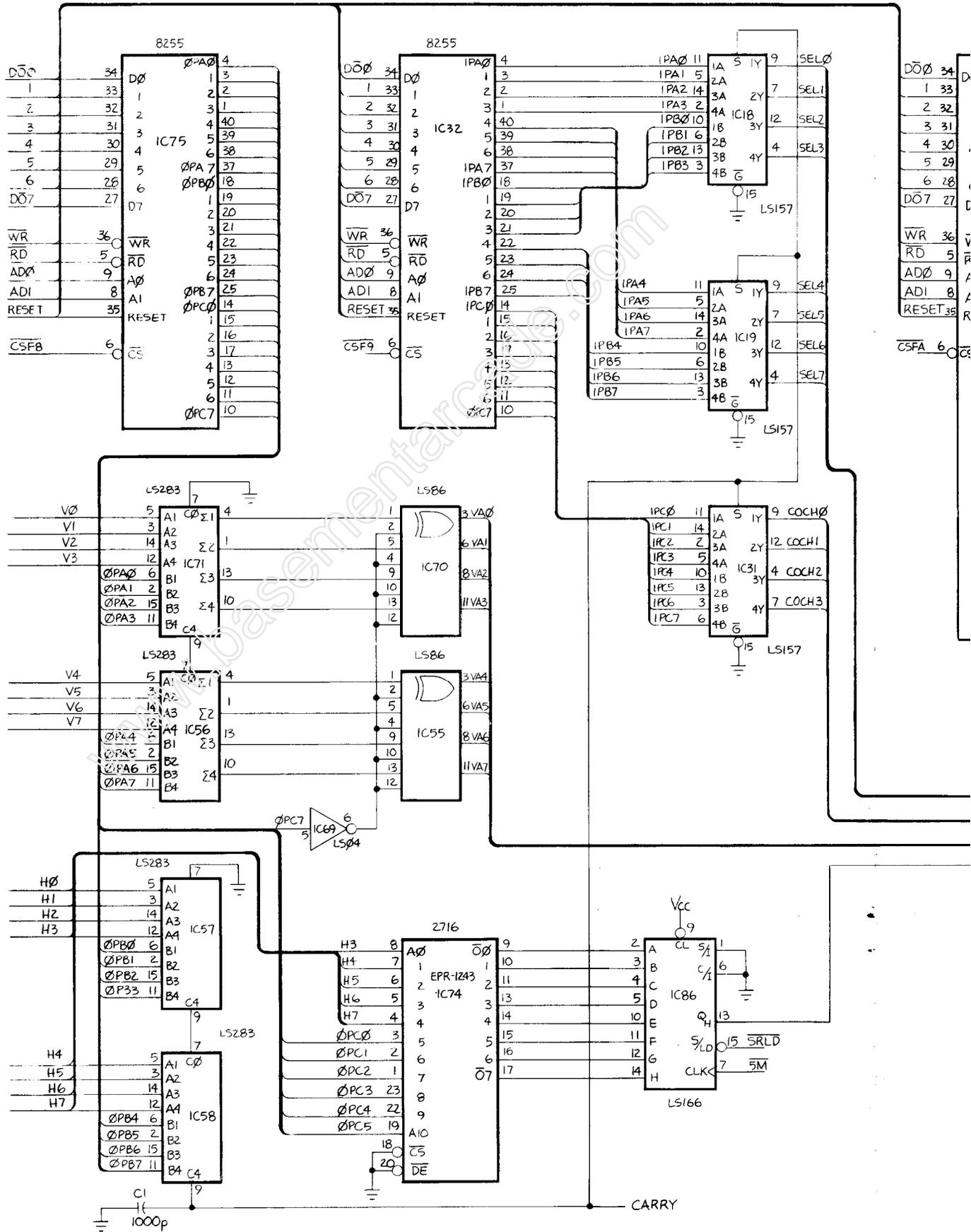
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D

C

B

A



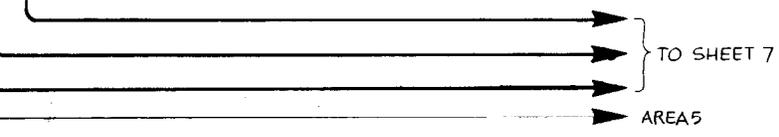
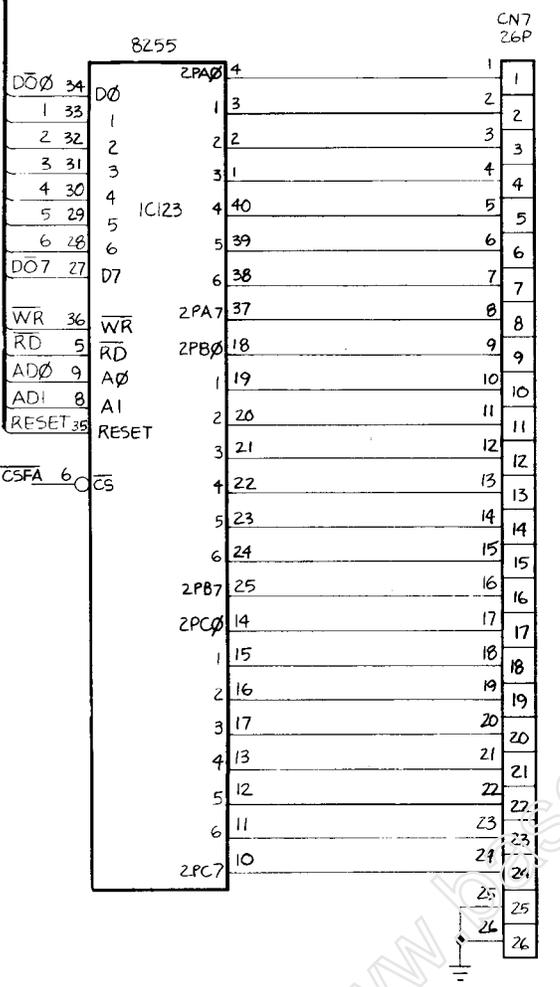
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5

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO.		
FRACTIONS ± #/# DECIMALS ± .XX # ANGLES ± #/°		APPROVALS DATE		
MATERIAL		DRAWN DYNA PAC 12-81		
FINISH		CHECKED		
NEXT ASSY USED ON		MECH		
APPLICATION		ELEC		
DO NOT SCALE DRAWING		MFG		
		PROJECT		
		SIZE D CODE IDENT NO. DRAWING NO. REV		
		834-0110		
		SCALE ---/--- SHEET 6 OF 7		

Gremlin/SEGA
San Diego, California 92123

CPU Board

834-0110

D

C

B

A

4

3

2

1

4

3

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5

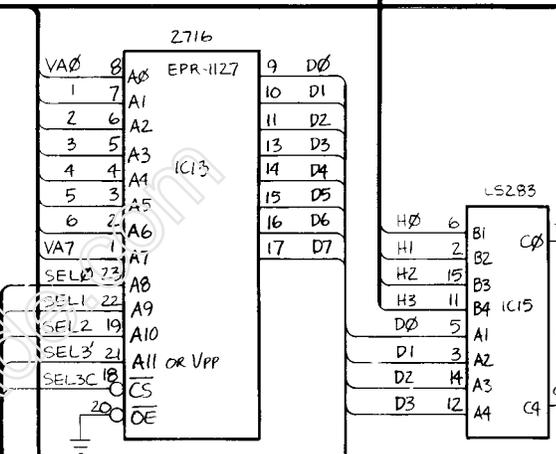
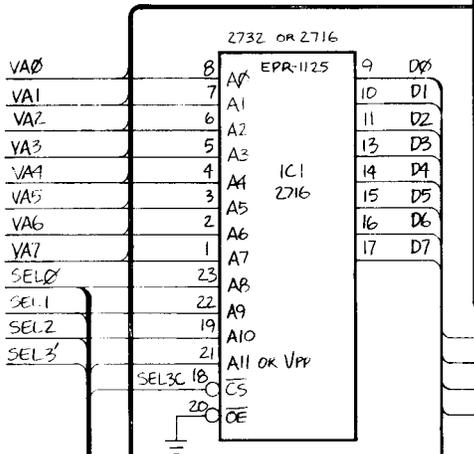
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C

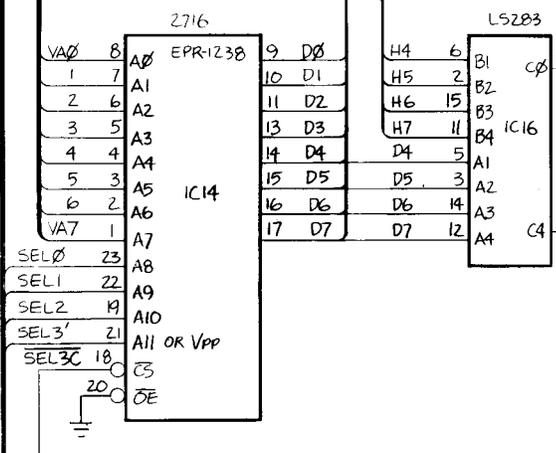
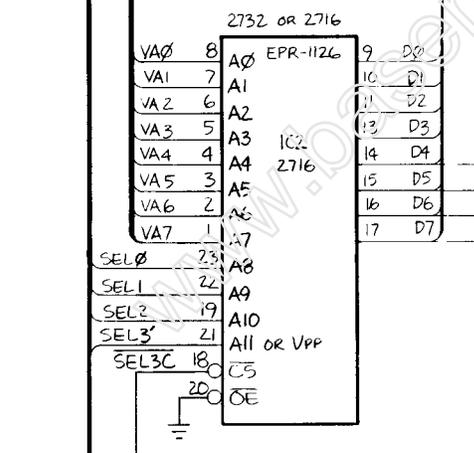
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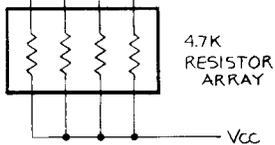
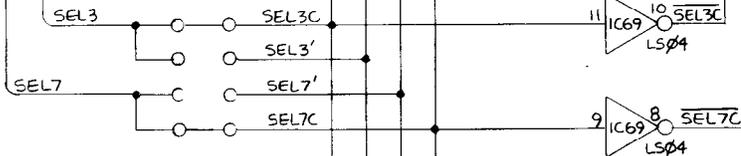
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H4-H7



SEL4-SEL7

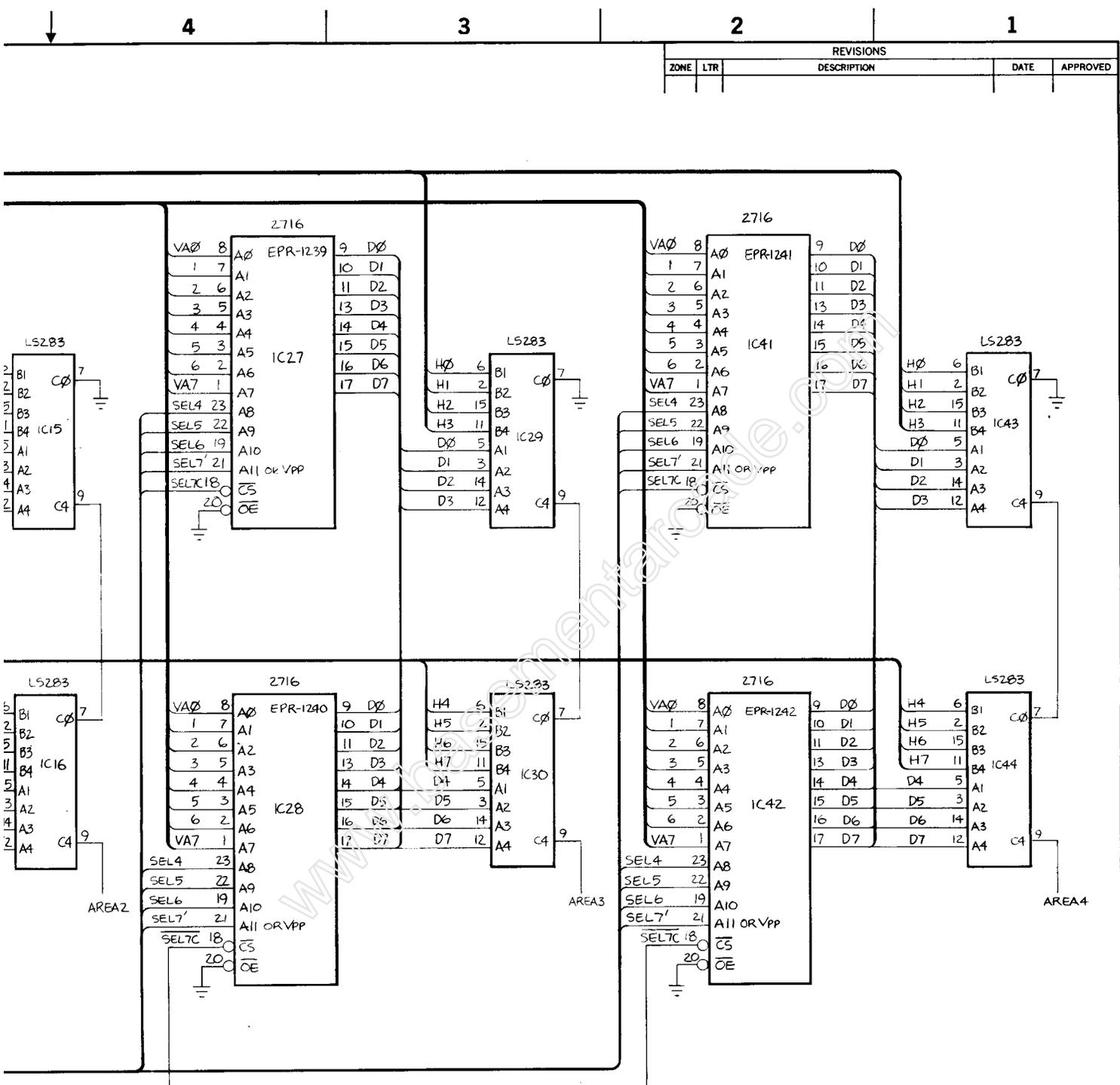


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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO.		
FRACTIONS ± #	DECIMALS .XX ± #	ANGLES ° ± #	APPROVALS	
			DATE	
			DRAWN DYNA PAC 12-81	
MATERIAL	FINISH		ELEC	
			MECH	
			MFG	
			PROJECT	
NEXT ASSY	USED ON	DO NOT SCALE DRAWING	SIZE D	CODE IDENT NO. 834-0110
APPLICATION			SCALE --	DRAWING NO. 834-0110
			REV	
			SHEET 7 OF 7	

Gremlin/SEGA
San Diego, California 92123

CPU Board

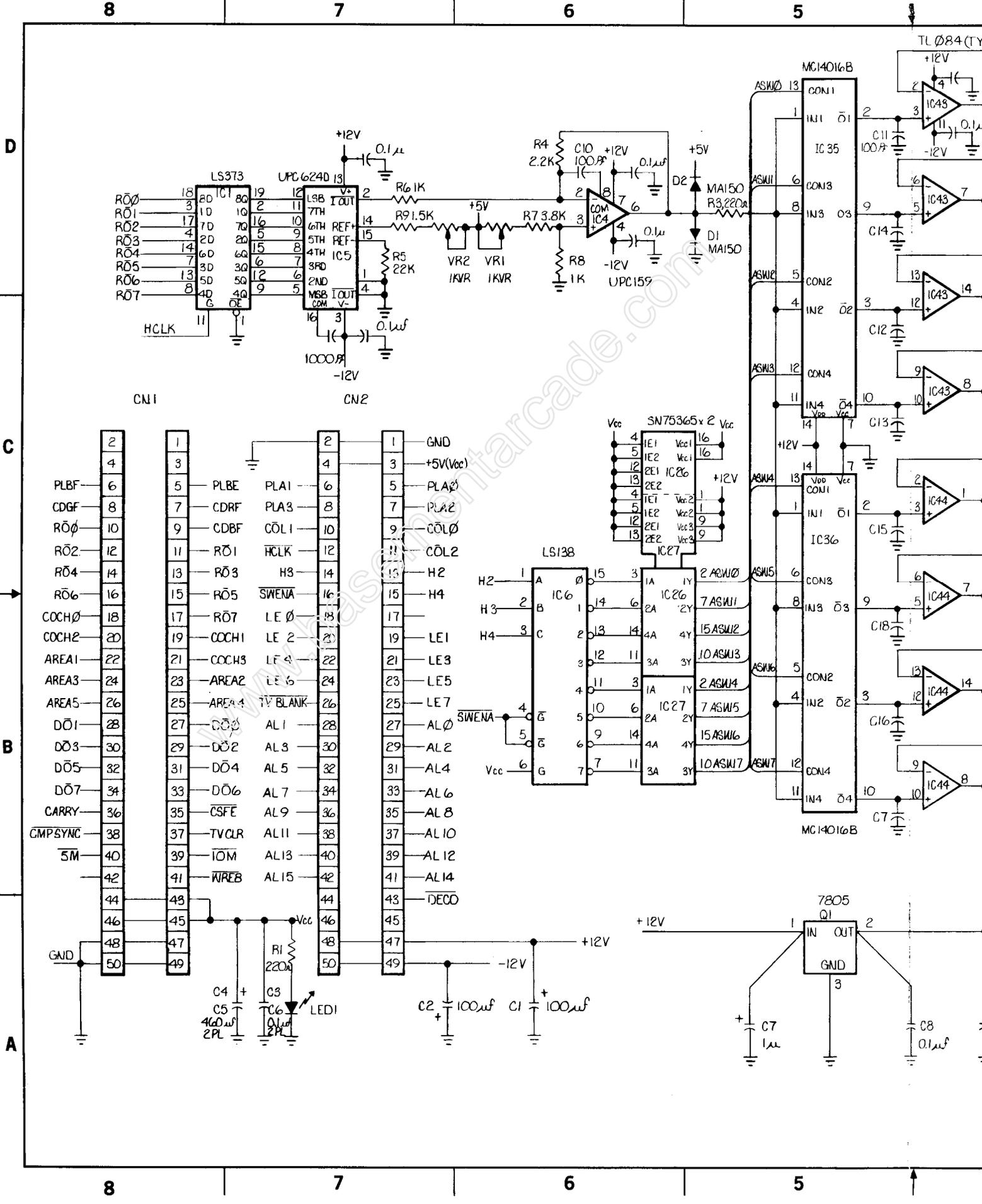
834-0110

D

C

B

A



D

C

B

A

8

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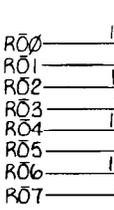
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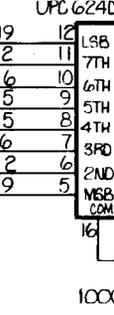
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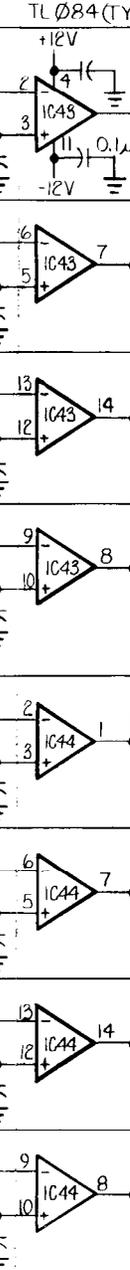
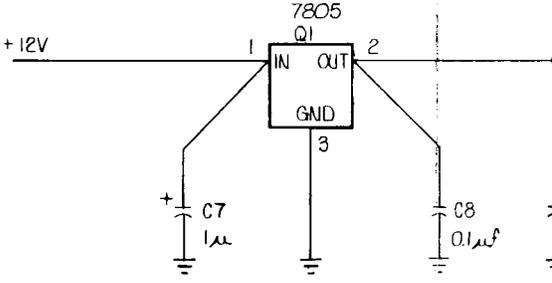
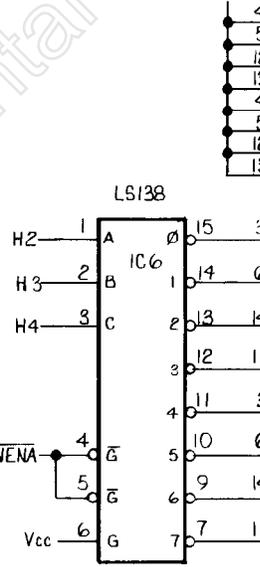
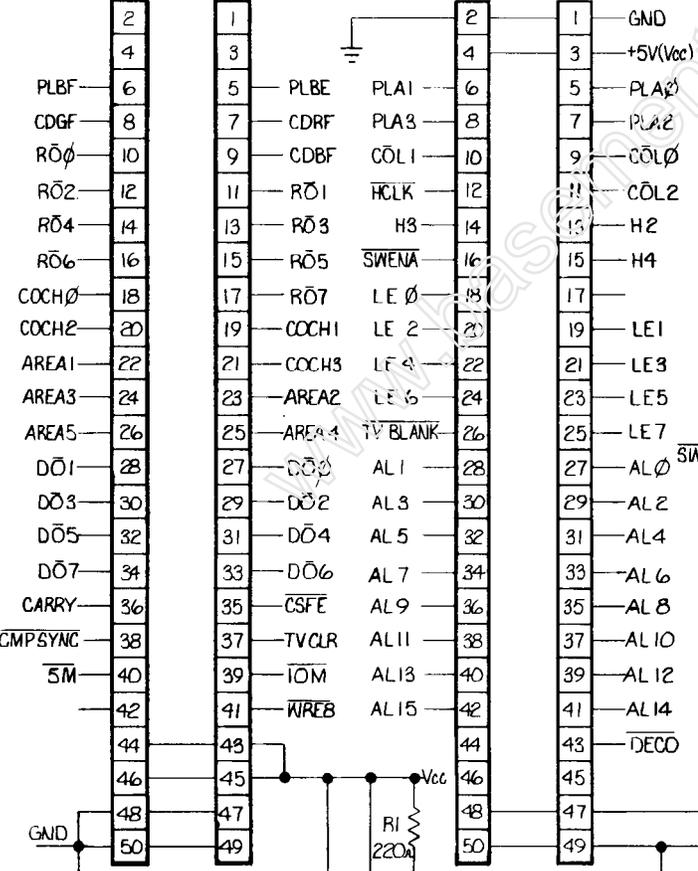
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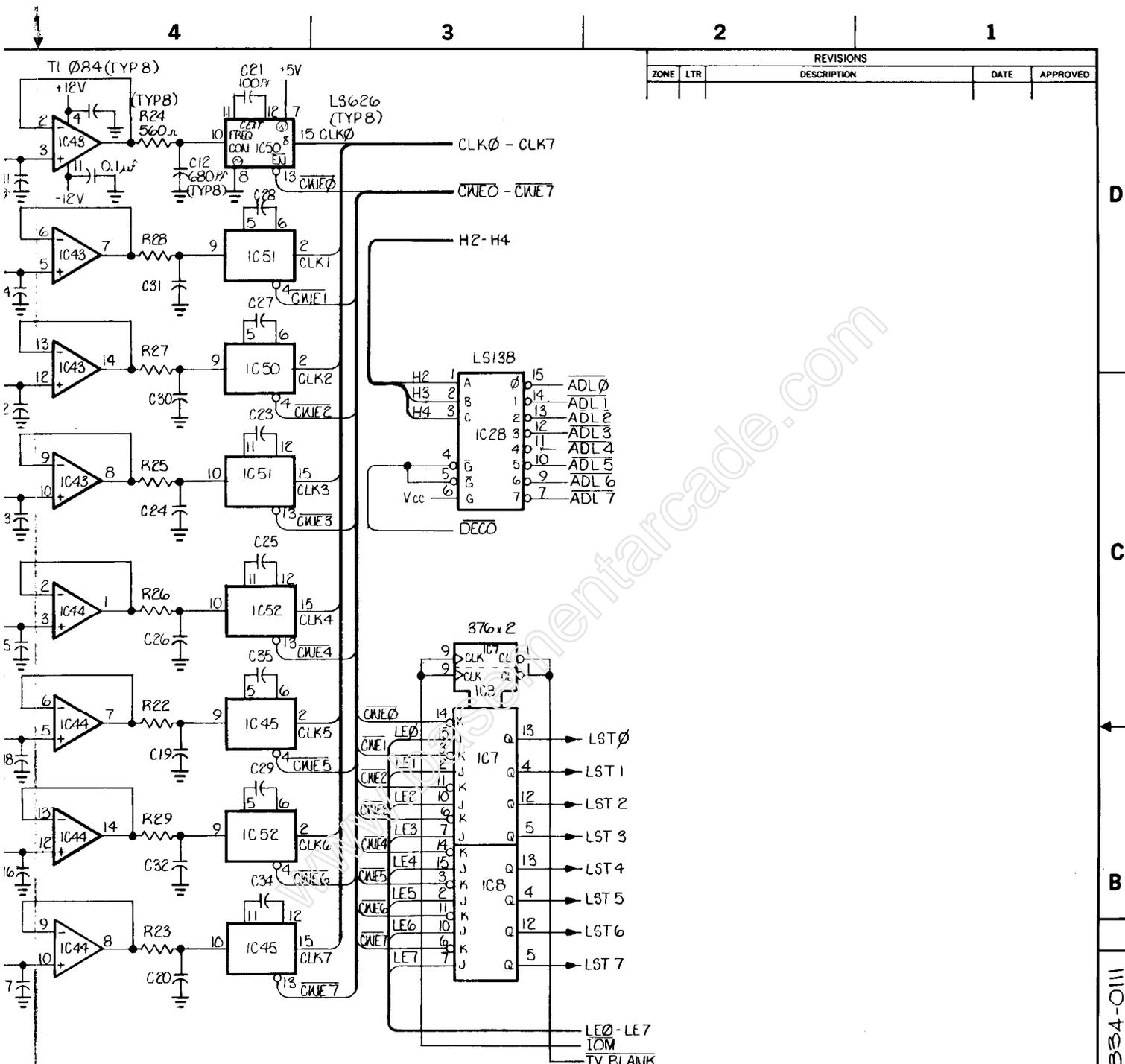


CN1



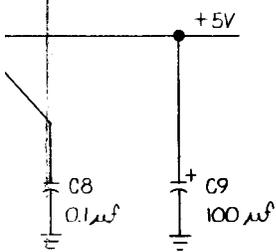
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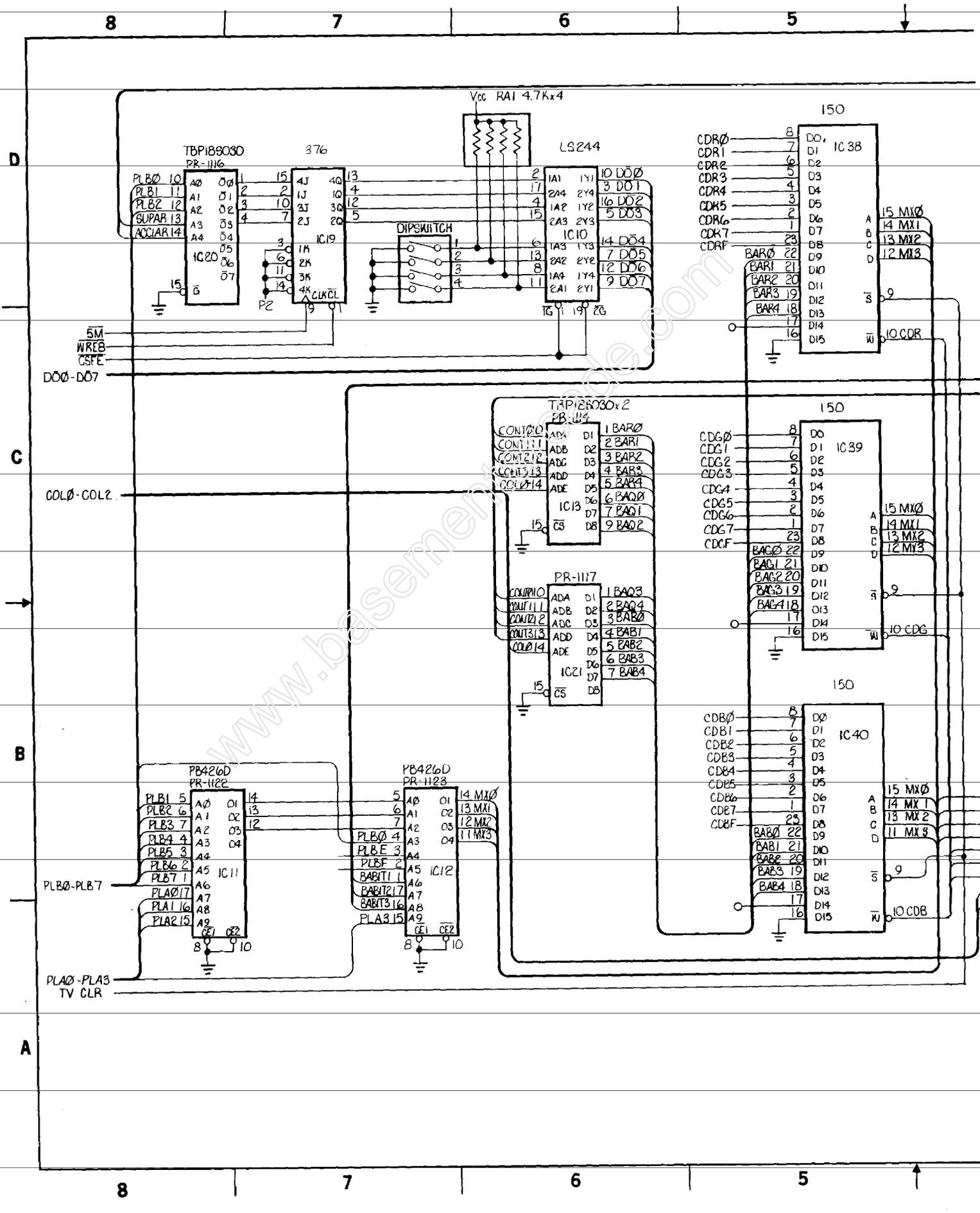


REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

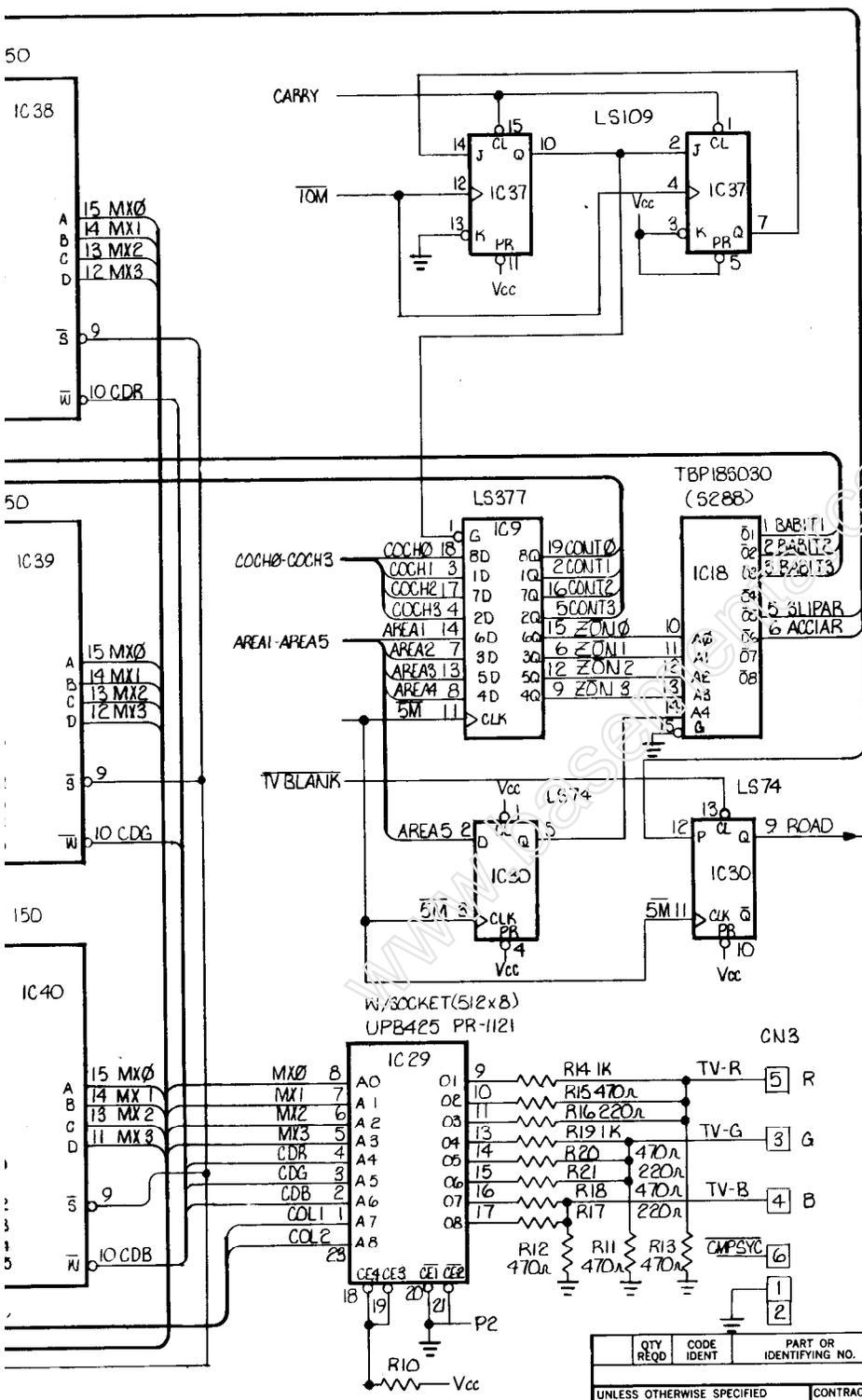
D
C
B
A
834-0111



QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO.								
PARTS LIST												
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO.		 San Diego, California 92123								
FRACTIONS	DECIMALS	ANGLES	APPROVALS		DATE							
± .005	.XX ± .005	± .1°	DRAWN	12-81								
MATERIAL		CHECKED		<h2>P-ROM Board</h2>								
FINISH		MECH										
NEXT ASSY		ELEC										
USED ON		MFG										
APPLICATION		PROJECT		<table border="1"> <tr> <td>SIZE</td> <td>CODE IDENT NO.</td> <td>DRAWING NO.</td> <td>REV</td> </tr> <tr> <td>D</td> <td></td> <td>834-0111</td> <td></td> </tr> </table>	SIZE	CODE IDENT NO.	DRAWING NO.	REV	D		834-0111	
SIZE	CODE IDENT NO.	DRAWING NO.	REV									
D		834-0111										
DO NOT SCALE DRAWING			SCALE	SHEET 1 OF 10								



ZONE		LTR	REVISIONS	DESCRIPTION	DATE	APPROVED
			1	SEE SH1 I		



QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO.		
FRACTIONS	DECIMALS	ANGLES	APPROVALS	
$\pm \frac{xx}{100}$	$\pm .xx$	$\pm \frac{xx}{10}$	DATE	
$\pm .xxx$	$\pm .xxx$	$\pm \frac{xx}{10}$	DRAWN DYNAPAC	
MATERIAL		CHECKED		
FINISH		MECH		
NEXT ASSY		ELEC		
USED ON		MFG		
APPLICATION		PROJECT		
DO NOT SCALE DRAWING		SCALE N/A		

Gremlin/SEGA
San Diego, California 92123

P-ROM Board

SIZE: **D** CODE IDENT NO.: **834-0111** DRAWING NO.: **834-0111** REV: **1**

834-1011

2

1

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
		SEE SHT #1		

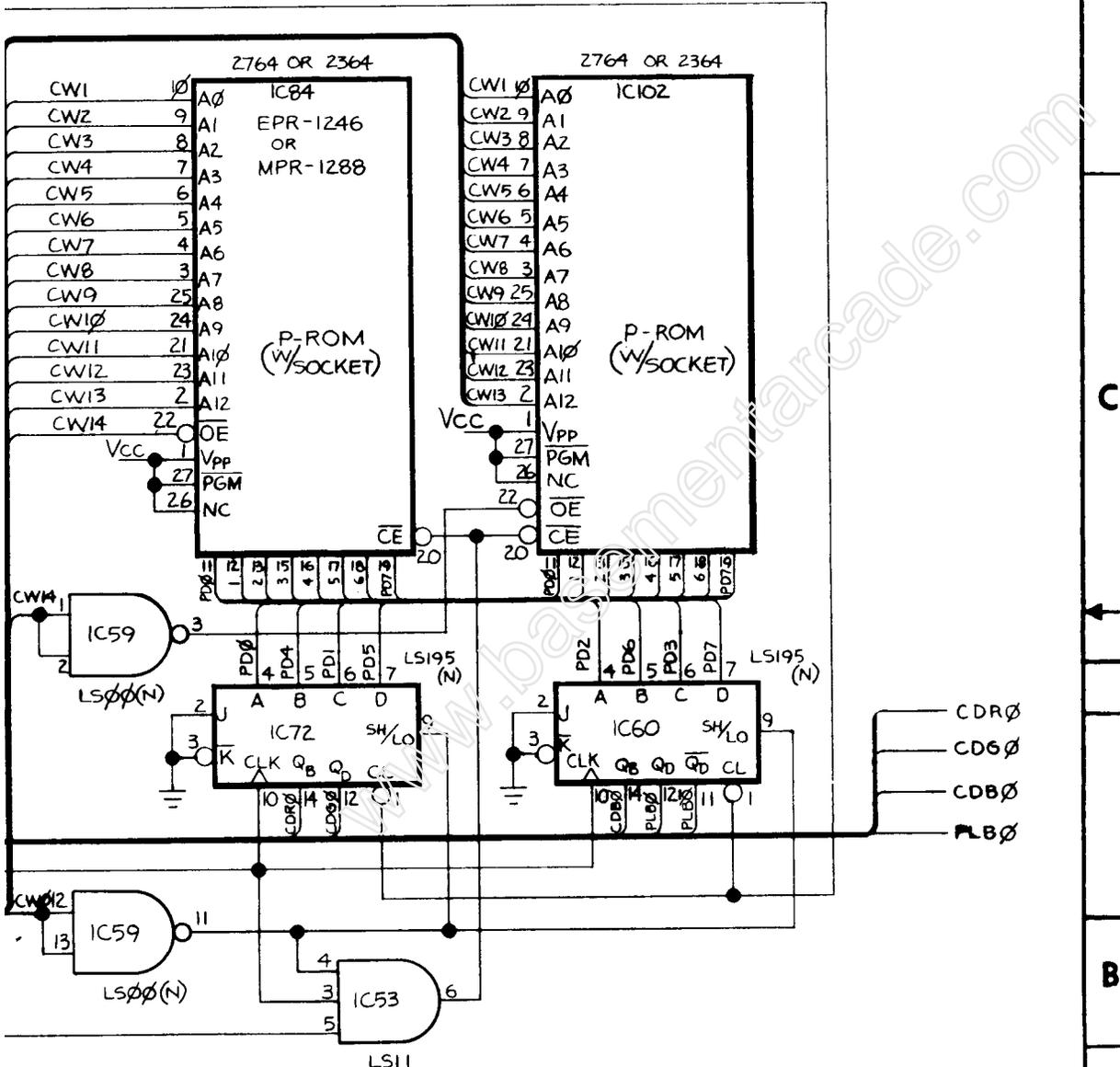
LEVEL 0

D

C

B

A



QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO.
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PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:

FRACTIONS	DECIMALS	ANGLES
± --	.XX ± --	± --
	.XXX ± --	

MATERIAL: //

FINISH: //

DO NOT SCALE DRAWING

CONTRACT NO.	
APPROVALS	DATE
DRAWN DYNA PAC SA	12-81
CHECKED	
MECH	
ELEC	
MFG	
PROJECT	

Gremlin/SCGA
San Diego, California 92123

P-ROM Board

SIZE	CODE IDENT NO.	DRAWING NO.	REV
C		834-0111	

SCALE NONE SHEET 3 OF 10

2

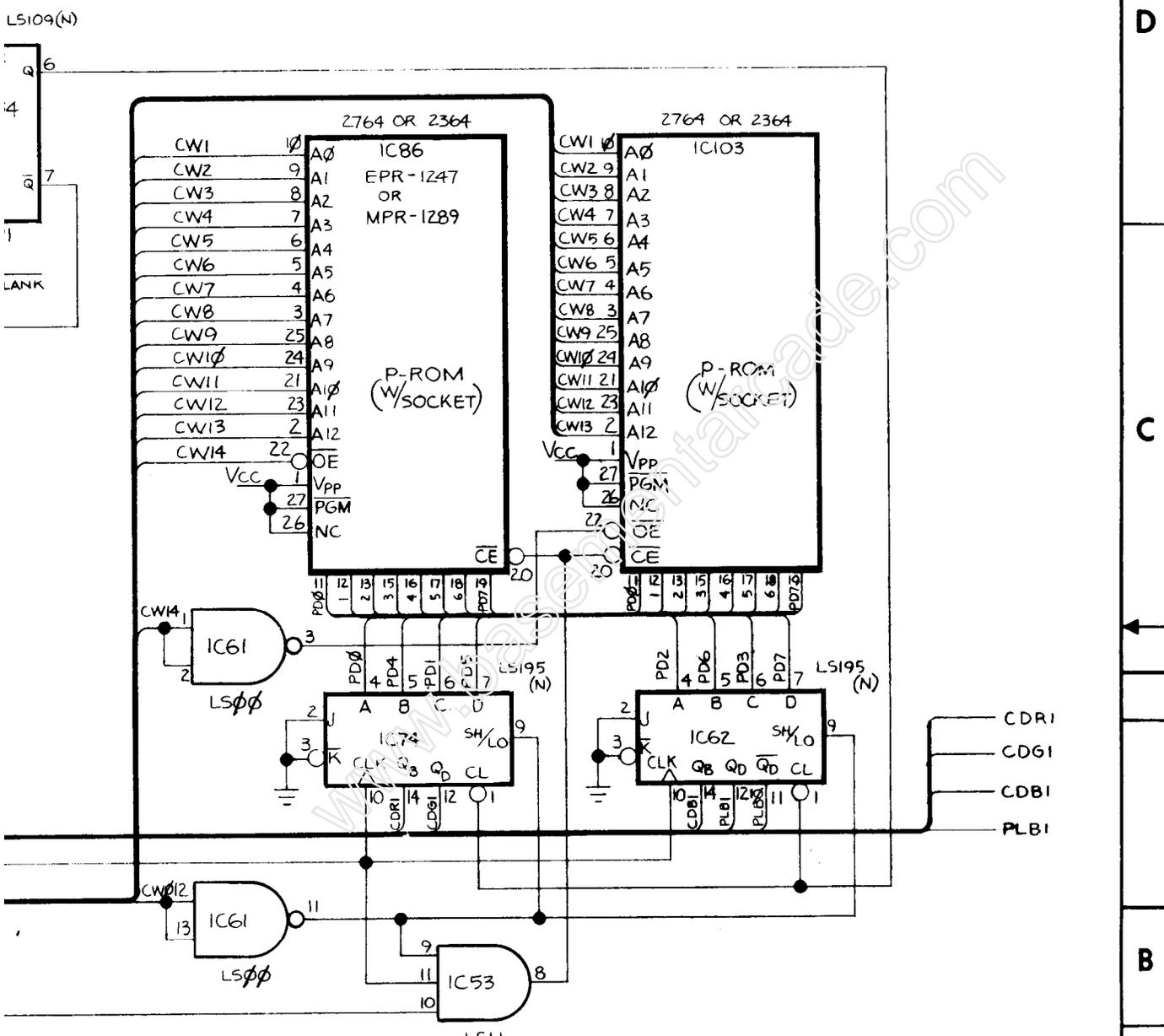
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2

1

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
		SEE SHT #1		

LEVEL 1



D
C
B

QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: ± #/16 DECIMALS: ± .# ANGLES: ± #°		CONTRACT NO.		
MATERIAL: #		APPROVALS: DRAWN DYNA PAC SA 12-81		
FINISH: #		CHECKED: MECH: ELEC: MFG: PROJECT:		
USED ON: TION		<div style="text-align: center;">  P-ROM Board </div>		
DO NOT SCALE DRAWING		SIZE: C	CODE IDENT NO: 834-0111	REV: DRAWING NO. REV
		SCALE: NONE	SHEET 4 OF 10	

A

2

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2

1

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
		SEE SHT #1		

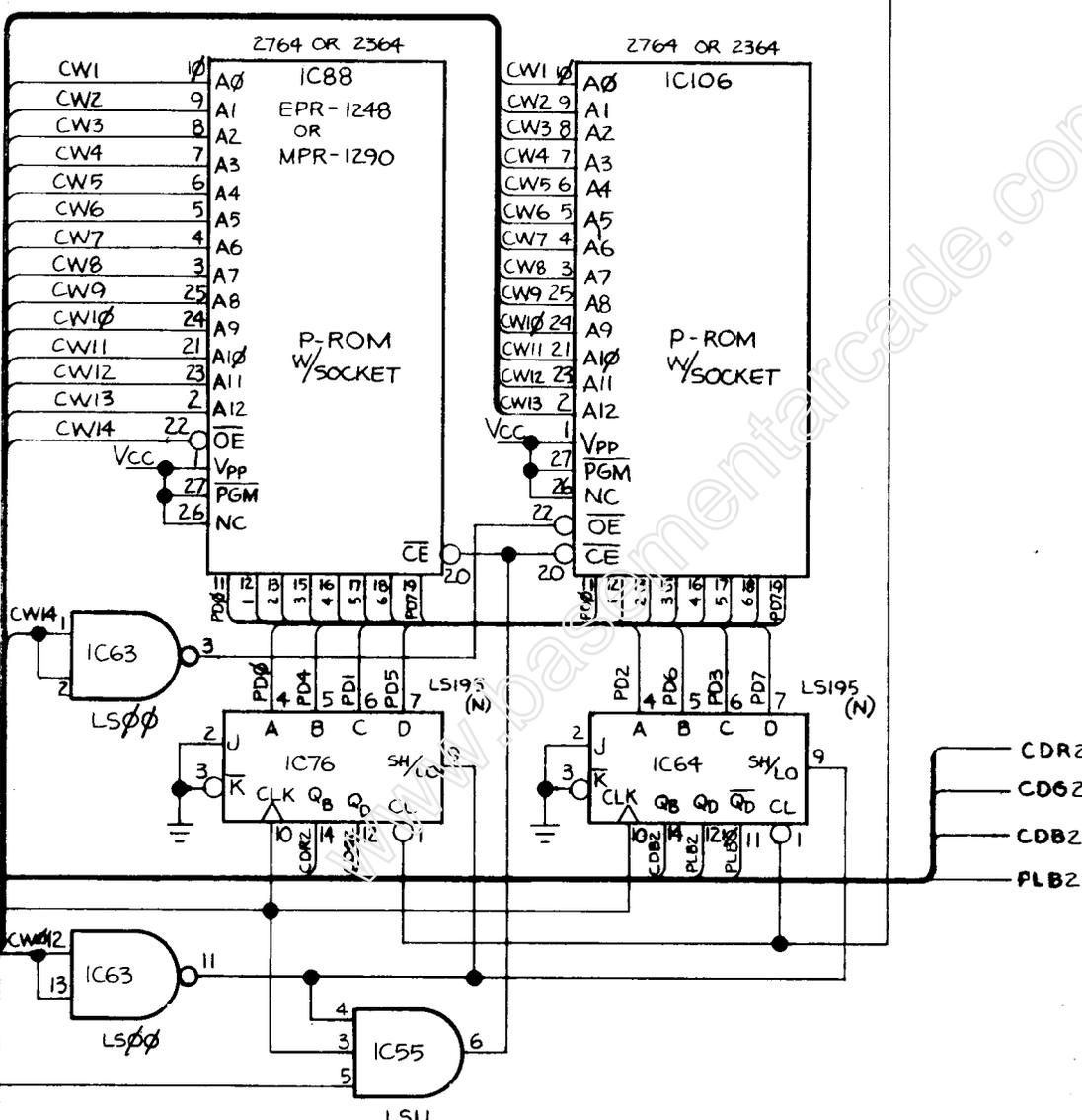
LEVEL 2

D

C

B

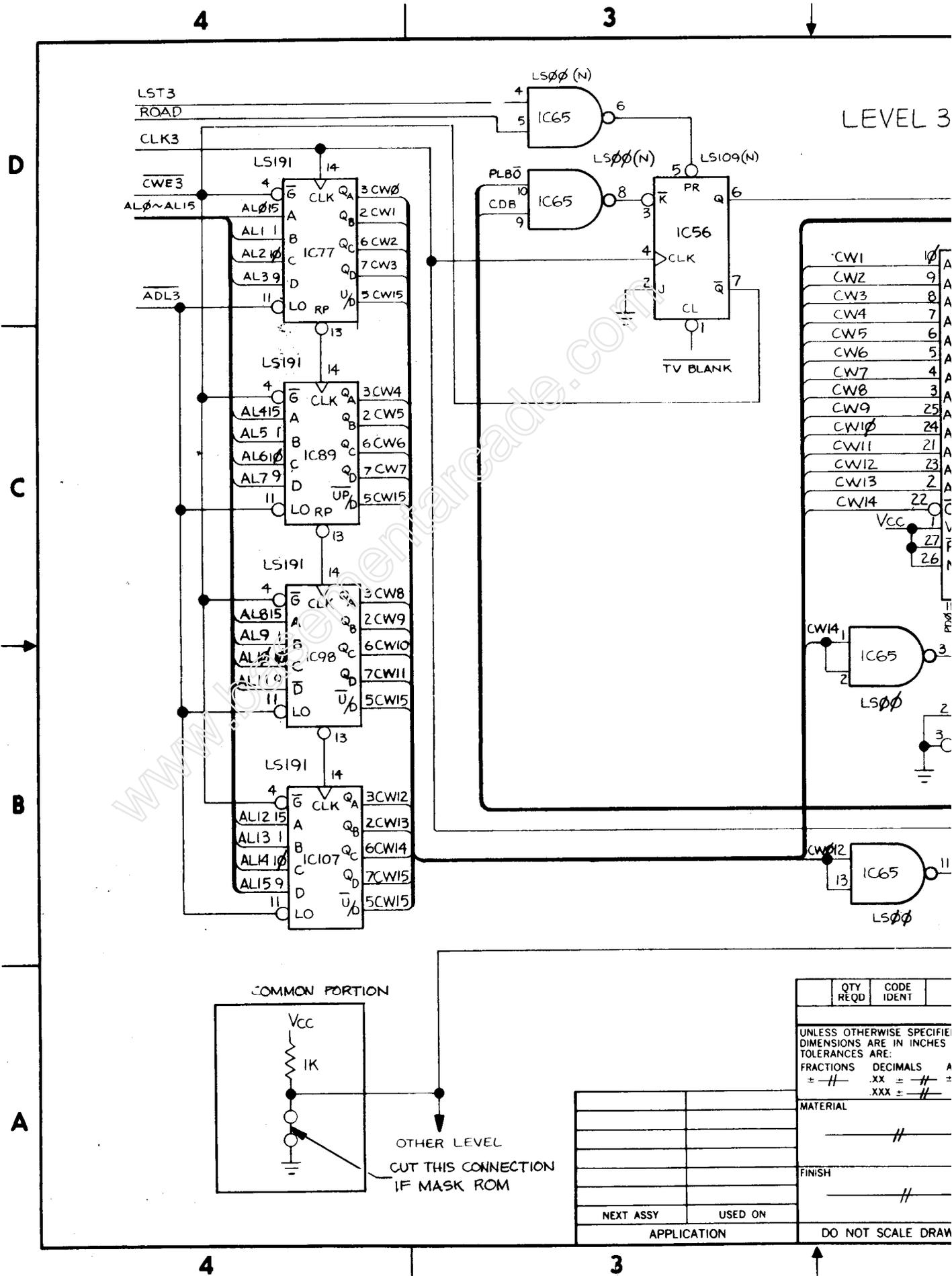
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QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± #/16 ± .XX ± #/16 ± #/16 XXX ± #/16		CONTRACT NO.		
MATERIAL		APPROVALS		
FINISH		DATE		
DO NOT SCALE DRAWING		DRAWN DYNA PAC 8/12-81		
		CHECKED		
		MECH		
		ELEC		
		MFG		
		PROJECT		
		SIZE	CODE IDENT NO.	DRAWING NO.
		C		834-0111
		SCALE NONE		REV
		SHEET 5 OF 10		

2

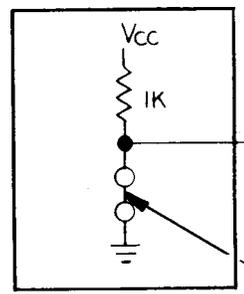
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LEVEL 3

CW1	10	A
CW2	9	A
CW3	8	A
CW4	7	A
CW5	6	A
CW6	5	A
CW7	4	A
CW8	3	A
CW9	25	A
CW10	24	A
CW11	21	A
CW12	23	A
CW13	2	A
CW14	22	A

COMMON PORTION



OTHER LEVEL
CUT THIS CONNECTION
IF MASK ROM

QTY REQD	CODE IDENT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS A ± #/## ± #.## ± #.###	
MATERIAL	
FINISH	
NEXT ASSY	USED ON
APPLICATION	
DO NOT SCALE DRAWING	

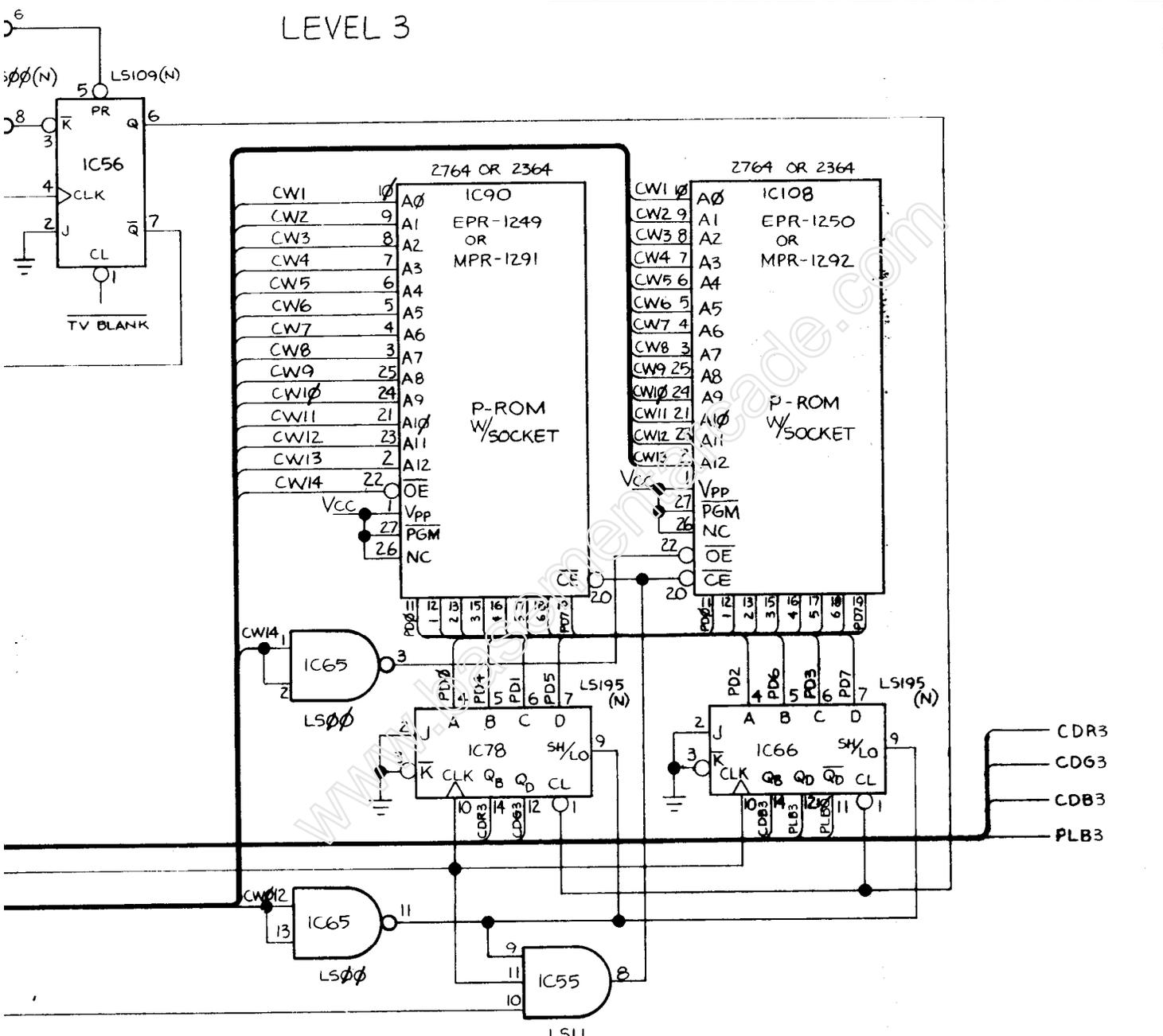
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2

1

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
		SEE SHT #1		

LEVEL 3



D

C

B

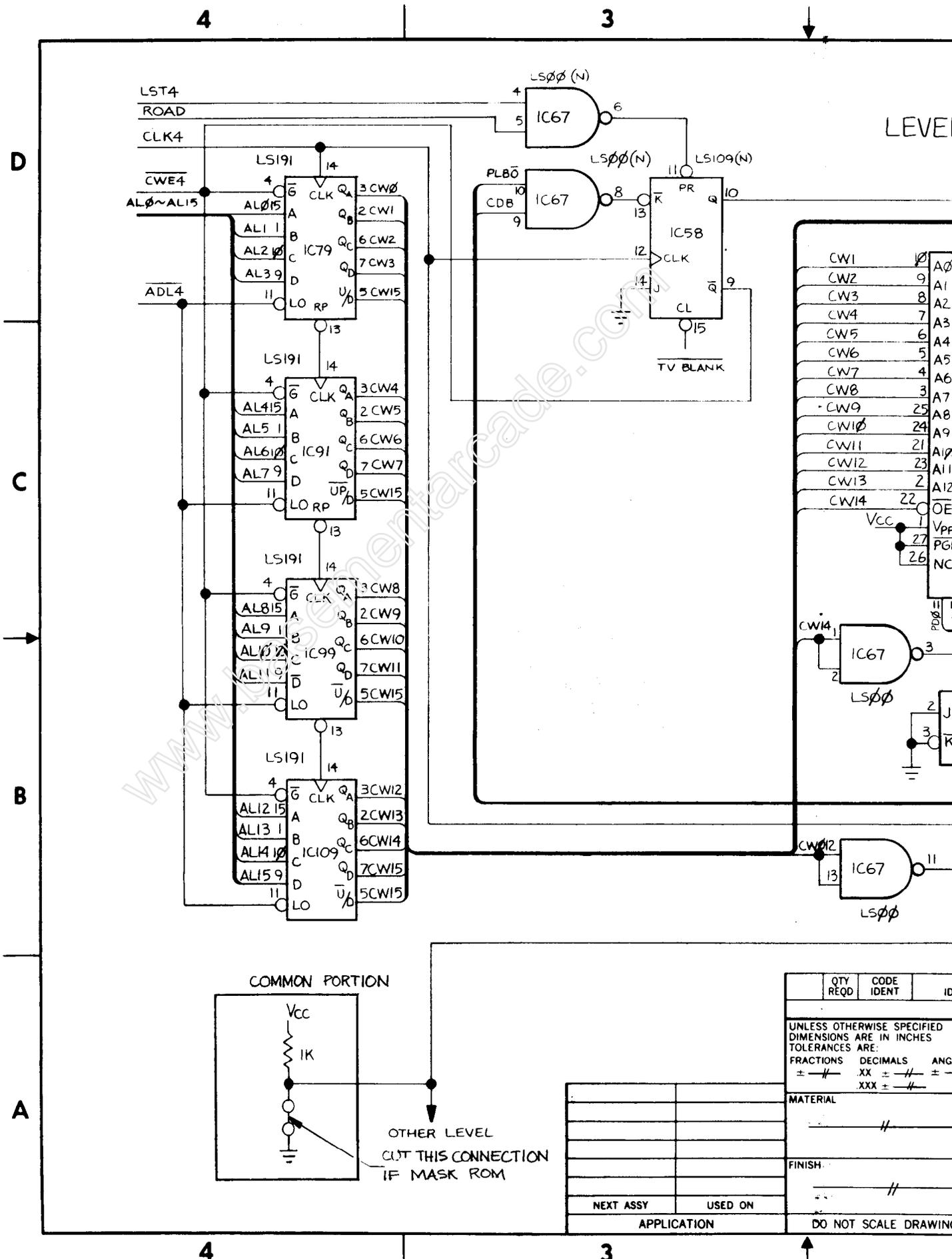
A

QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO.		
FRACTIONS	DECIMALS	ANGLES	 San Diego, California 92123	
± #	XX ± #	± #		
MATERIAL		APPROVALS		
FINISH		DATE		
NEXT ASSY		DRAWN DYNA PAC SA 12-81		
USED ON		CHECKED		
APPLICATION		MECH		
DO NOT SCALE DRAWING		ELEC		
		MFG		
		PROJECT		
		SIZE	CODE IDENT NO	DRAWING NO
		C		834-0111
		SCALE NONE	SHEET 6 OF 10	

3

2

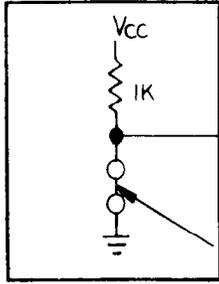
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www.romarcade.com

CW1	10	A0
CW2	9	A1
CW3	8	A2
CW4	7	A3
CW5	6	A4
CW6	5	A5
CW7	4	A6
CW8	3	A7
CW9	25	A8
CW10	24	A9
CW11	21	A10
CW12	23	A11
CW13	2	A12
CW14	22	OE
	1	VCC
	27	VPP
	26	PGM
		NC

COMMON PORTION



OTHER LEVEL
CUT THIS CONNECTION
IF MASK ROM

QTY REQD	CODE IDENT	ID
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGI		
± #	.XX ± #	° ± #
XXX ± #		
MATERIAL		
FINISH		
NEXT ASSY	USED ON	
APPLICATION		

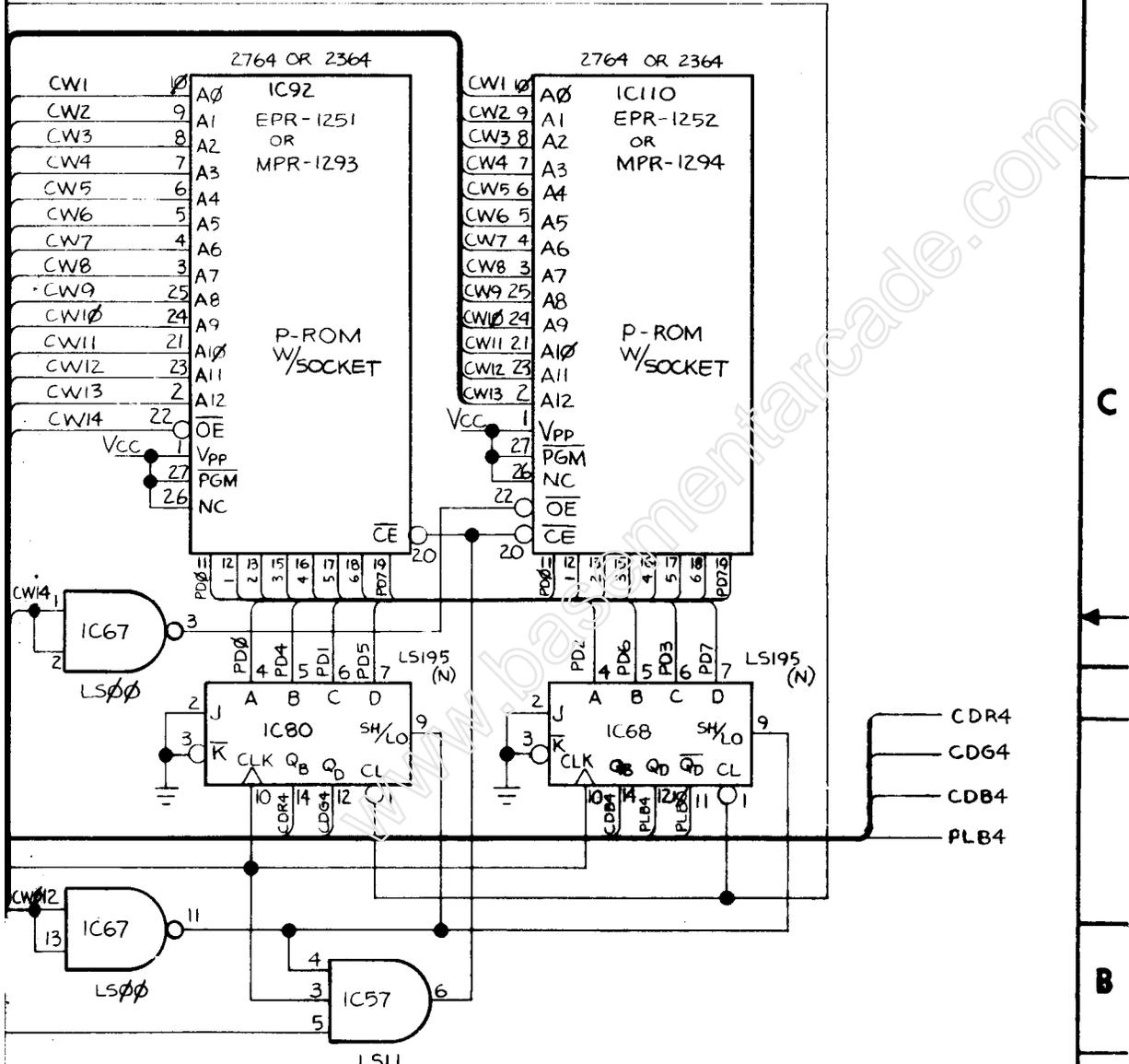
DO NOT SCALE DRAWING

2

1

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
		SEE SHT #1		

LEVEL 4



D
C
B

QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO.
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PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ± .010 ± .005 ± .010
 XXX ± .010

MATERIAL _____

FINISH _____

DO NOT SCALE DRAWING

CONTRACT NO.	
APPROVALS	DATE
DRAWN DYNA PAC SA	12-81
CHECKED	
MECH	
ELEC	
MFG	
PROJECT	

Gremlin/SEGA
San Diego, California 92123

P-ROM Board

SIZE	CODE IDENT NO.	DRAWING NO.	REV
C		834-0111	
SCALE NONE		SHEET 7 OF 10	

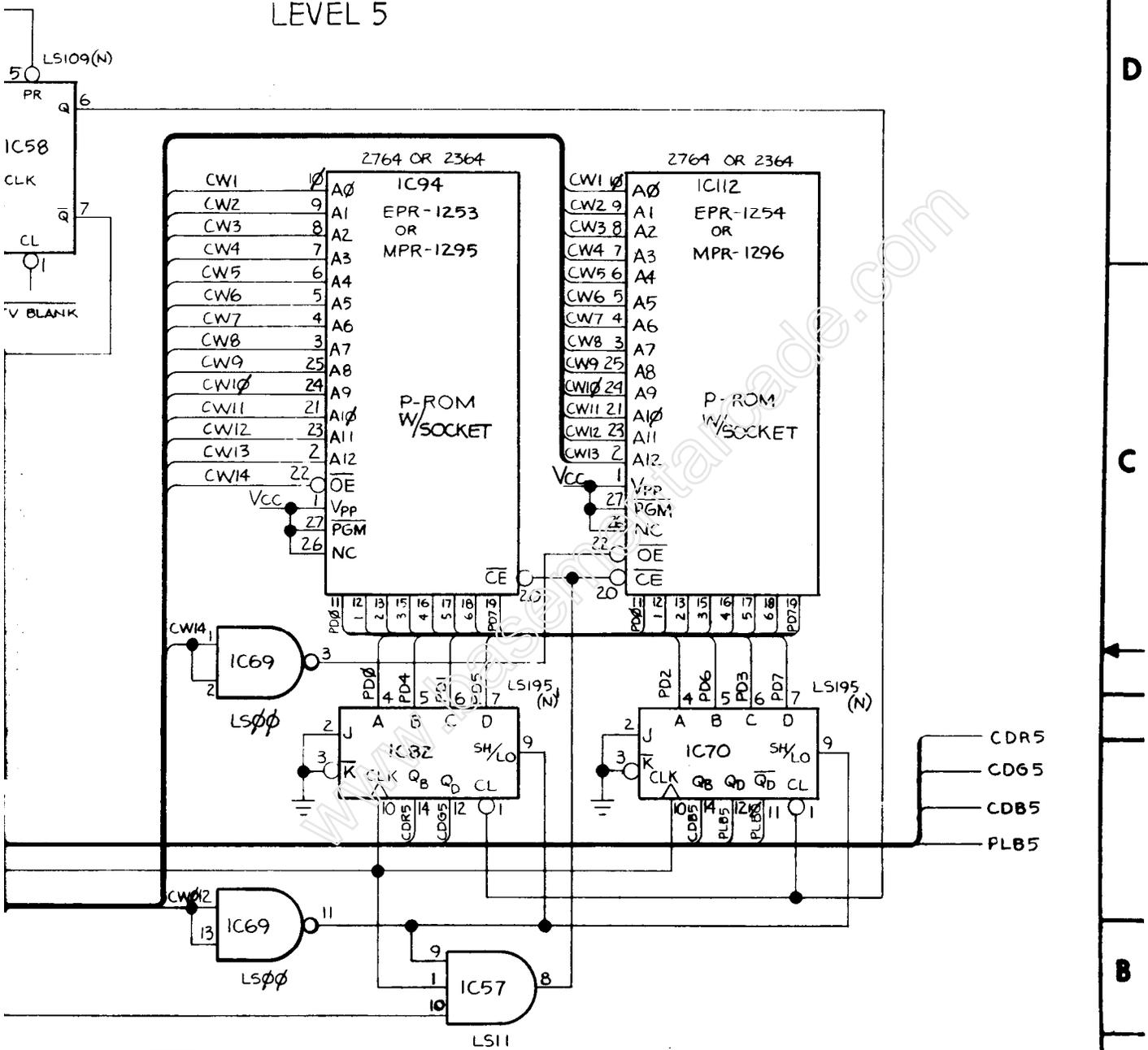
A

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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
		SEE SHT #1		

LEVEL 5



QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO.		
FRACTIONS DECIMALS ANGLES ± # ± # ± #		APPROVALS DATE		
MATERIAL		DRAWN DYNA PAC SA 12-81		
FINISH		CHECKED		
USED ON		MECH		
DO NOT SCALE DRAWING		ELEC		
		MFG		
		PROJECT		
		SIZE CODE IDENT NO. DRAWING NO. REV		
		C 834-0111		
		SCALE NONE SHEET 8 OF 10		

Gremlin/SGCA
San Diego, California 92123

P-ROM Board

834-0111

SHEET 8 OF 10

2

1

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
		SEE SHT #1		

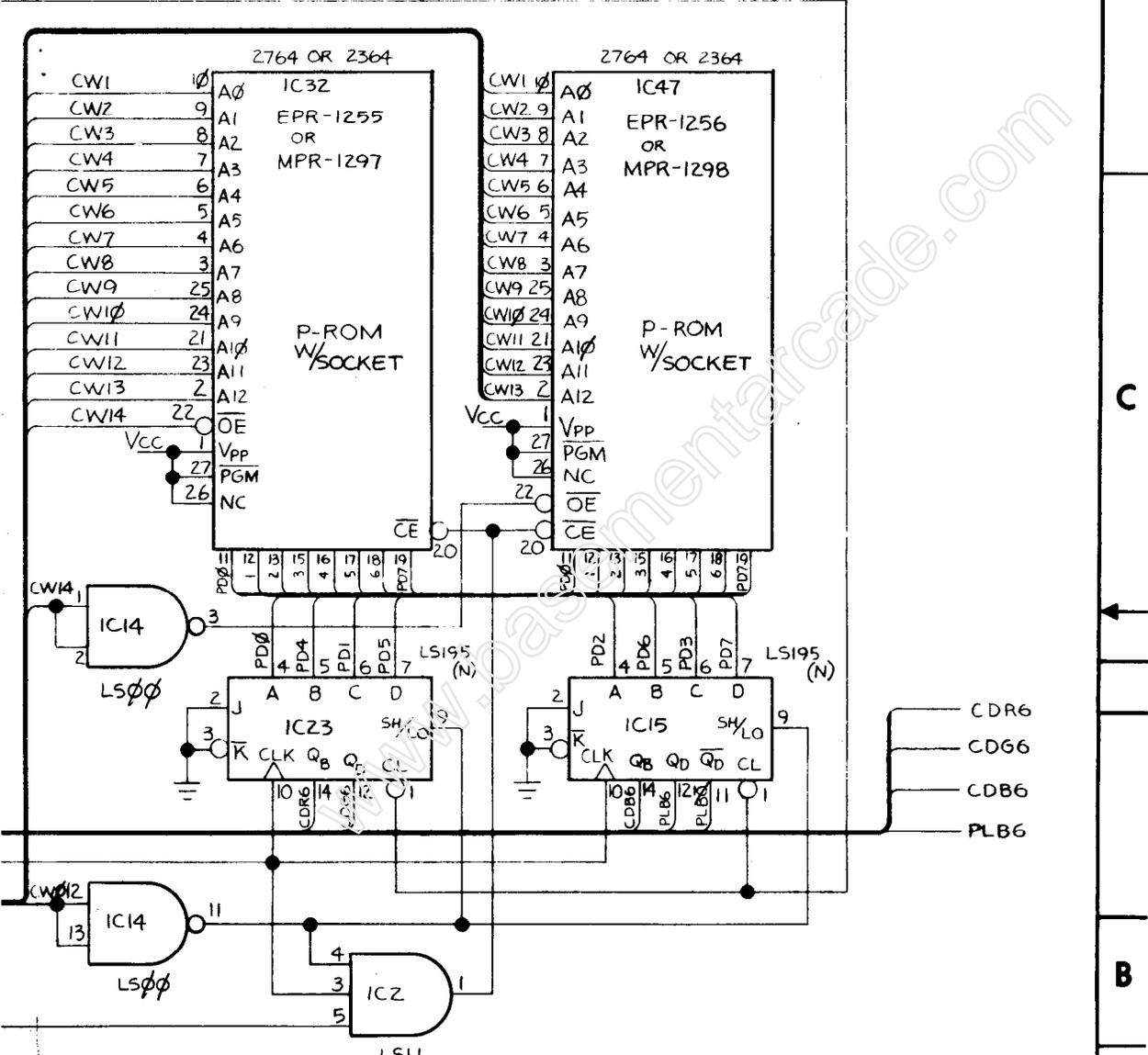
LEVEL 6

D

C

B

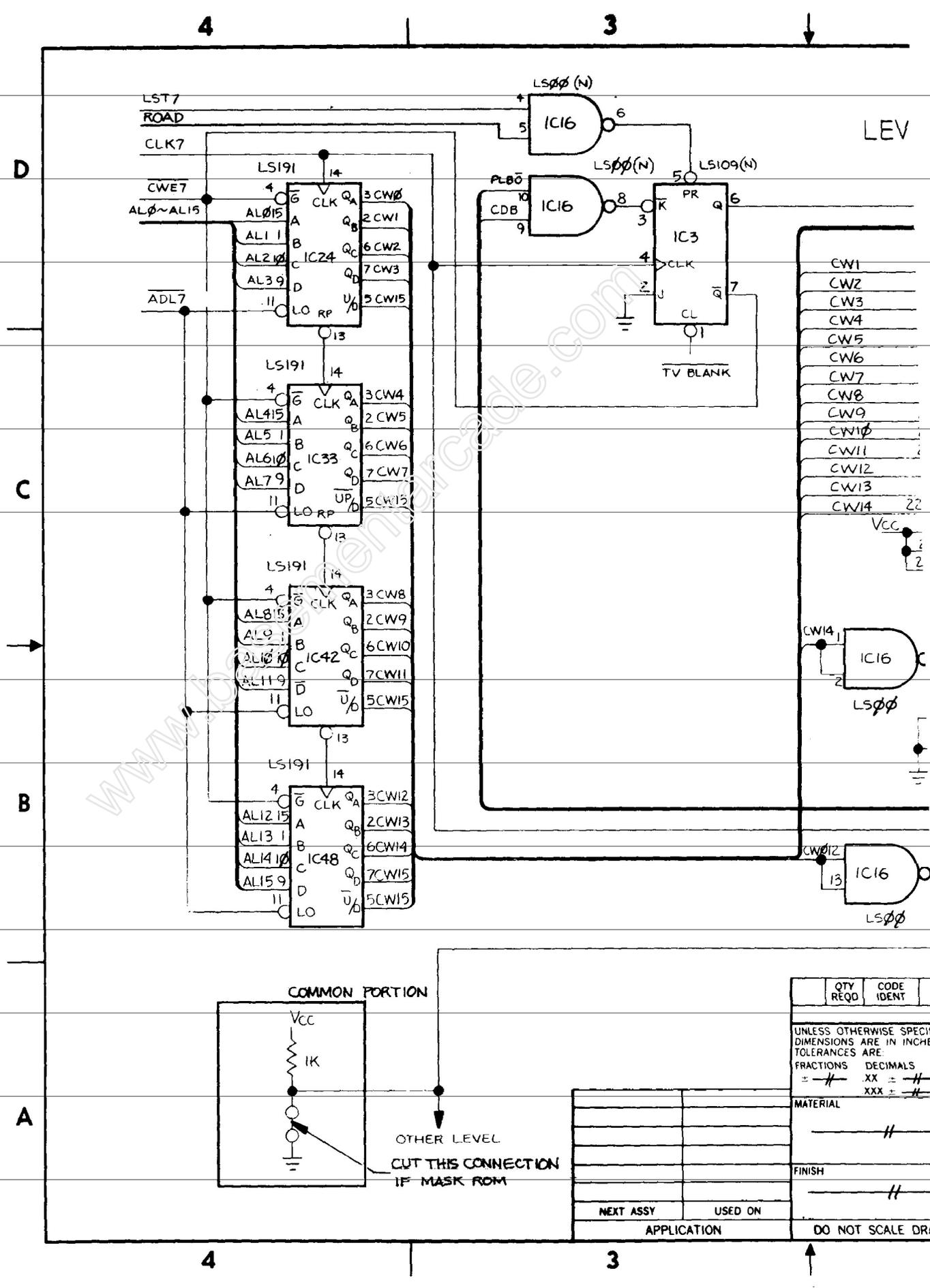
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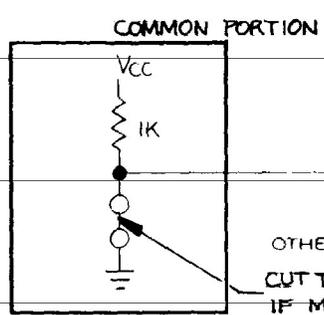
QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO.		
FRACTIONS	DECIMALS	ANGLES	 San Diego, California 92123	
± #/	.XX ± #	± #°		
MATERIAL		APPROVALS	DATE	<h2>P-ROM Board</h2>
FINISH		DRAWN DYNA PAC SA	12-81	
DO NOT SCALE DRAWING		CHECKED		
		MECH		
		ELEC		834-0111
		MFG		
		PROJECT		REV
		SIZE	CODE IDENT NO.	DRAWING NO.
		C		
		SCALE	NONE	SHEET 9 OF 10

2

1



QTY REQD	CODE IDENT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:	
FRACTIONS	DECIMALS
± #	.XX ± #
	XXX ± #
MATERIAL	
_____ #	
FINISH	
_____ #	
NEXT ASSY	USED ON
APPLICATION	
DO NOT SCALE DRAW	



OTHER LEVEL
CUT THIS CONNECTION
IF MASK ROM

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