

TAITO AMERICA CORPORATION

TAITO SER. NO.

509913

CONVERSION KIT

FOR

PIT & RUN[®]

universal kit



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72-10025-001

WARNING

The parts contained in this game conversion kit must be installed in accordance with the instructions contained in this Service Manual. Failure to follow these instructions in every detail could result in the creation of illegal interference to radio and TV reception.

Taito America Corporation has verified that, when this conversion kit is installed without deviation from these instructions, the equipment will then comply with the requirements of Part 15 of FCC Rules for a Class A computing device. The manufacturer will not be responsible for incomplete or improper conversions.

After such installation in accordance with the instructions, the enclosed NOTICE AFTER CONVERSION should be applied to the back of the game cabinet so as to cover up any previous notice regarding FCC Rules.

TABLE OF CONTENTS

CONVERSION INSTRUCTIONS	1-4
REPLACEMENT PARTS LIST	5,6

LIST OF FIGURES

GROUND PLATE ASSEMBLY	7
WIRING DIAGRAM	8
JOYSTICK TEMPLATE	9
SCHEMATICS	10-22

This manual will guide you in the conversion of your raster scan, color monitor upright video game into a PIT & RUN game. We urge you to read through the instructions and study the drawings before beginning the conversion. Perform the instruction steps in the order presented.

1. Check the parts supplied in this kit against the parts list in the manual.

2. Cabinet preparation.

- a. Remove the exsisting logic boards from cabinet.
- b. PIT & RUN requires a vertically mounted monitor. Remount monitor in the best possible way if it was horizontally mounted. Note: PIT & RUN generates composite negative sync.
- c. To insure compliance with FCC regulations, the power supply used for PIT & RUN must meet these requirements:

A line filter must be installed between the power supply and the AC line. Taito recommends a Corcom model #6S1 or equivelent. Taito part no. #22-00001-001

A single point ground must be maintained throughout the game, i.e, the chassis for the power supply, the monitor chassis and the ground plate for the PCB set must be connected to the green "earth ground" wire in the Ac line cord.

The power supply must meet or exceed the voltage and current requirements.

+5 volts @ 4 amps +12 volts @ 1 amp

- d. PIT & RUN requires a speaker with a nominal impedance of 4 ohms or greater.

3. Install Ground Plate, filter board and PCB.

- a. Locate the the Ground Plate on a cabinet wall. Experiment to determine the best orientation for the plate remembering that the game PCB set must be able to slide into the card guides. Mount the plate to the cabinet using a 8x11/16 screw in each corner. Using the holes in the plate as a template, screw the two PCB mounting brackets into the cabinet using the 8 x11/16" screws provided. Be carefull not to bow or bend the ground plate. It must lay flat against the mounting surface.SEE FIGURE 1.
- b. Depending on the installation, the PCB set may have to be slid into place before the filter board is mounted. If this is the case, slide the PCB set into place before mounting the filter board.

- c. Using the holes in the plate as a template, screw the filter board into the cabinet using the 6 x 1 1/2" screws provided. SEE FIG. 1.
- d. Slide the PCB set into the guides with the edge connector facing the filter board and the component sides of the PCB set facing outward. Push the PCB set edge connector GENTLY into the connector on the filter board. Be sure the connectors on the PCB and filter board are aligned properly. SEE FIGURE 1.
- e. Mount the "L" bracket into the cabinet, using a 6 x 1/2" screw provided, on the left side of the PCB to keep it from sliding. SEE FIGURE 1.

4. Connect the main harness.

- a. Connect the 44 pin edge connector of the main harness to the filter board, observing the keying plug. SEE FIGURE 1.
- b. Connect the 12 pin connector of the main harness to the filter board. Connect the "power jumper" cable between the filter board and the PCB set.
- c. Using the supplied wiring diagram as a guide, connect the main harness ends to the correct power supply, coin door and speaker connections. Note: The coin door bundle of wires contains an orange wire to be connected to a tilt switch. To enable the tilt feature, cut the J5 jumper on the center board of the Pit & Run PCB set. Connect a NORMALLY CLOSED switch between ground and the orange wire. If the tilt feature is not desired, then DO NOT cut the J5 jumper and tie the orange wire out of the way.
- d. Connect the gray video cable to the monitor. The connectors will mate with most Wells Gardner and Electrohome monitors. If using a different monitor, use the wiring diagram as a guide in wiring the video cable to the monitor.

5. Rework control panel.

- a. Strip the control panel of all buttons and/or joysticks.
- b. Locate and drill the holes needed for the joystick and buttons. Use template supplied with kits to locate holes for the joystick. Clean any burrs from around holes.
- c. Remove any soil and/or grime from the front of the panel.
- d. Cut the lexan to the approximate size needed to cover the panel. If possible, leave enough lexan to wrap a small lip around the top and bottom of the panel.

- e. Peel the backing off the lexan and apply it to the control panel. Cut out the lexan from the holes needed for the joystick and buttons.
 - f. Install joystick, buttons and any hardware that might have been removed on the panel.
 - g. Using the supplied wiring diagram as a guide, connect the joystick and buttons to the main harness. Note: A section of black wire is supplied with the kit for jumpering grounds between the push buttons and joystick switches.
 - h. Mount the control panel back on the cabinet.
6. Install marquee overlay.
- a. Remove marquee and clean soil and grime off.
 - b. Cut the marquee overlay to approximately the size needed.
 - c. Peel the backing off the overlay and apply the overlay to the marquee. Trim excess overlay off with a sharp knife or razor blade.
 - d. Replace the marquee back on the cabinet.
7. Install Ground Braids.
- a. Connect one end of a 28 inch ground braid to the Ground Plate at a convenient corner with a screw. Connect the other end of the ground braid to a convenient point on the the power supply chassis ground.
 - b. Connect another 28 inch ground braid from a convenient point on the power supply ground chassis to a convenient point on the monitor chassis.
8. Game Adjustments
- a. Consult the PIT & RUN Switch setting card and adjust the DIP switches as desired. Attach this card to the rear door of the game for future reference.
 - b. Turn the game ON and play a "2-PLAYER" test game. Adjust the volume controls as desired.
 - c. Some adjustments may have to be made to the horizontal and vertical frequency controls on the monitor. Some centering and width adjustments may also have to be made.
9. Attach FCC compliance and FBI warning labels.

Affix the FCC compliance and FBI warning labels to the back of the cabinet.

10. Attach the Instruction card.

Affix the instruction card to a convenient location on the coverglass.

The conversion is complete.

PIT & RUN CONVERSION PARTS LIST

CONVERSION KIT

DESCRIPTION	QUANTITY	PART NUMBER
PCB set	1	08-00146-001
Filter Board	1	08-00147-001
Ground plate	1	61-00361-001
Marquee overlay, PNR	1	66-00018-001
Control panel overlay	1	66-00005-001
Main Harness	1	09-00317-001

MANUAL PACK

DESCRIPTION	QUANTITY	PART NUMBER
Switch Setting Card	1	79-00105-001
Instruction card	1	79-50040-001
Conversion manual	1	72-10025-001
FCC Compliance Label	1	79-00070-001
FBI Warning label	1	79-00074-001

CONTROL PANEL PACK

DESCRIPTION	QUANTITY	PART NUMBER
"Accelerate" button	2	63-00156-006
1 player button	1	63-00176-001
2 player button	1	63-00176-002
P.B. Switch	4	29-00020-001
Stamped nut	4	54-07001-008
Ball and Shaft	1	63-00031-002
Mask	1	63-00033-001
E ring	1	59-00020-017
4 way leaf switch	1	63-00032-004
4 way actuator	1	63-00030-002
#10x24 carriage bolt	4	51-03004-013
#10x24 keps nut	4	54-02004-001

PARTS PACK

DESCRIPTION	QUANTITY	PART NUMBER
Braided Cable, 28"	2	09-00260-003
PCB mtg. bracket	2	07-00364-001
Power jumper cable	1	09-00318-001
Screw #8x11/16	10	51-00005-001
Screw #6x1 1/2"	4	51-01012-015
"L" bracket	1	61-00014-001
Screw #6x1/2"	1	51-01012-006
Black wire	5'	28-00009-000
Tye wraps	10	59-00003-001

FIGURE 1
PIT & RUN KIT - PCB & FILTER BOARD

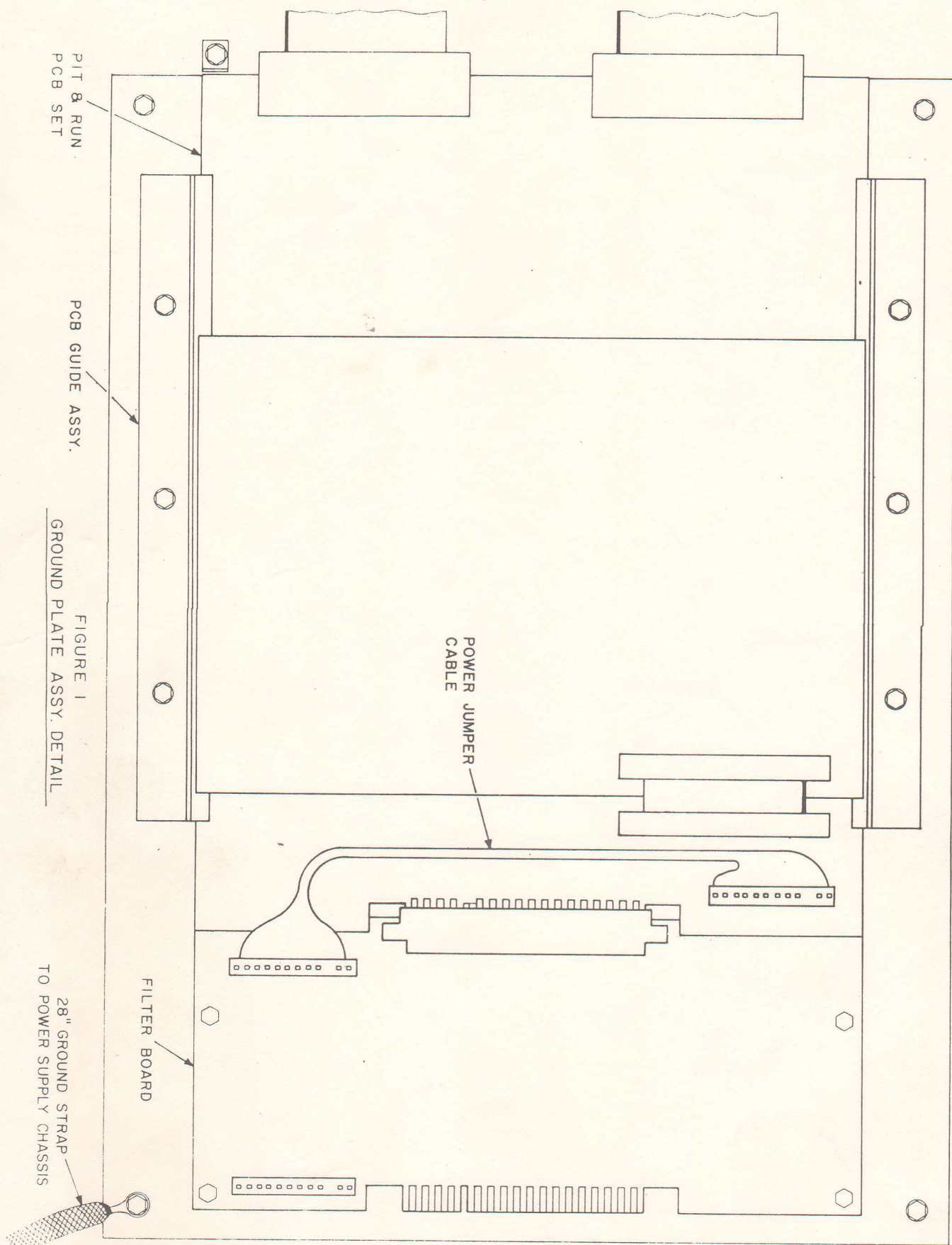
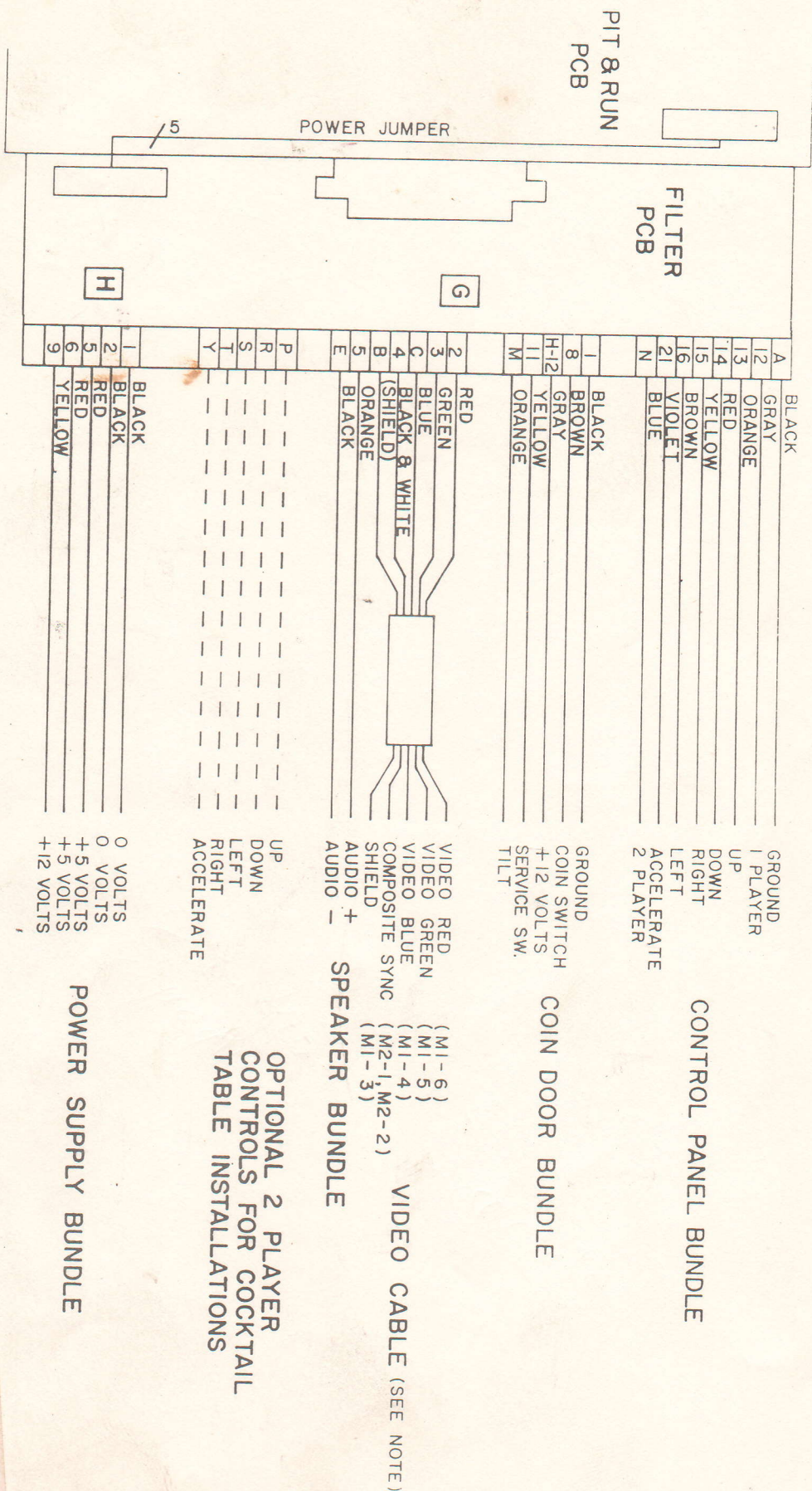


FIGURE 1
GROUND PLATE ASSY. DETAIL

FIGURE 2
PIT 8 RUN - WIRING DIAGRAM

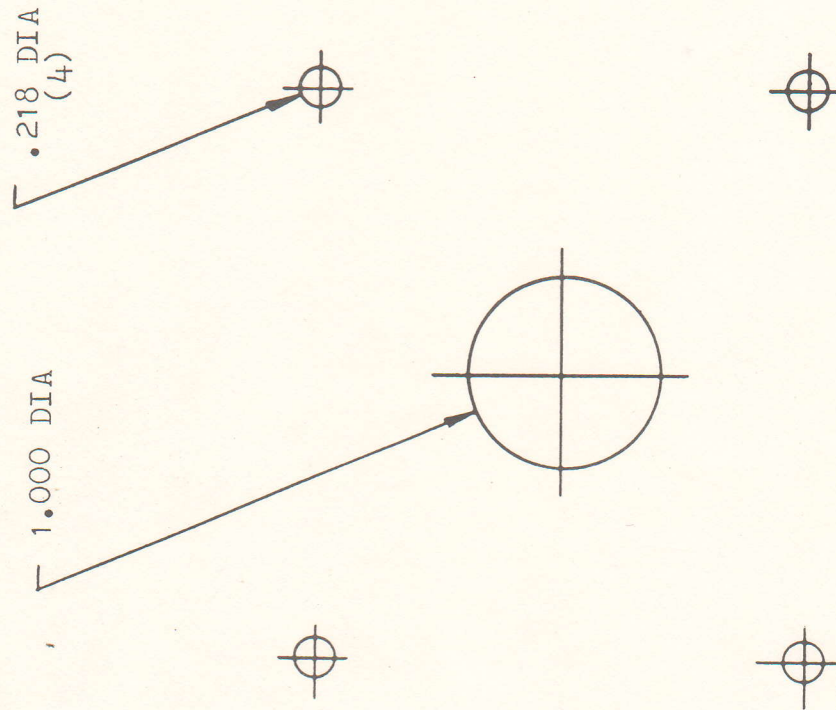


NOTE: M1 AND M2 CONNECTORS
MATE WITH WELLS-GARDNER,
ELECTROHOME AND EQUIVALENT
MONITORS.

ADDITIONAL NOTES:
On some kits, the coin switch wire is RED
instead of BROWN as shown in the wiring
diagram.
When adjusting the power supply for +5 and
+12 volts, measure voltages AT THE PCB SET.

JOYSTICK TEMPLATE

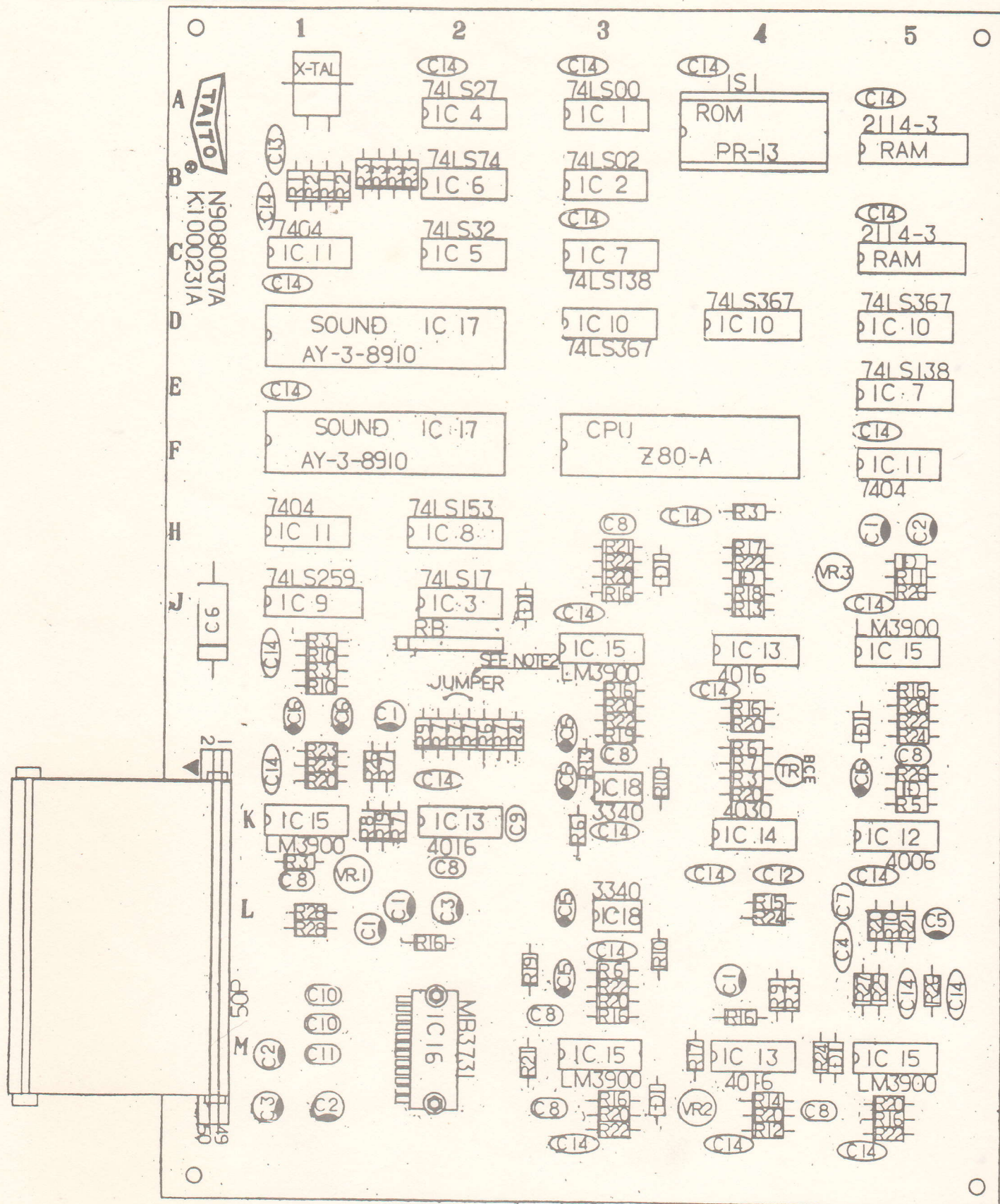
FIGURE 3



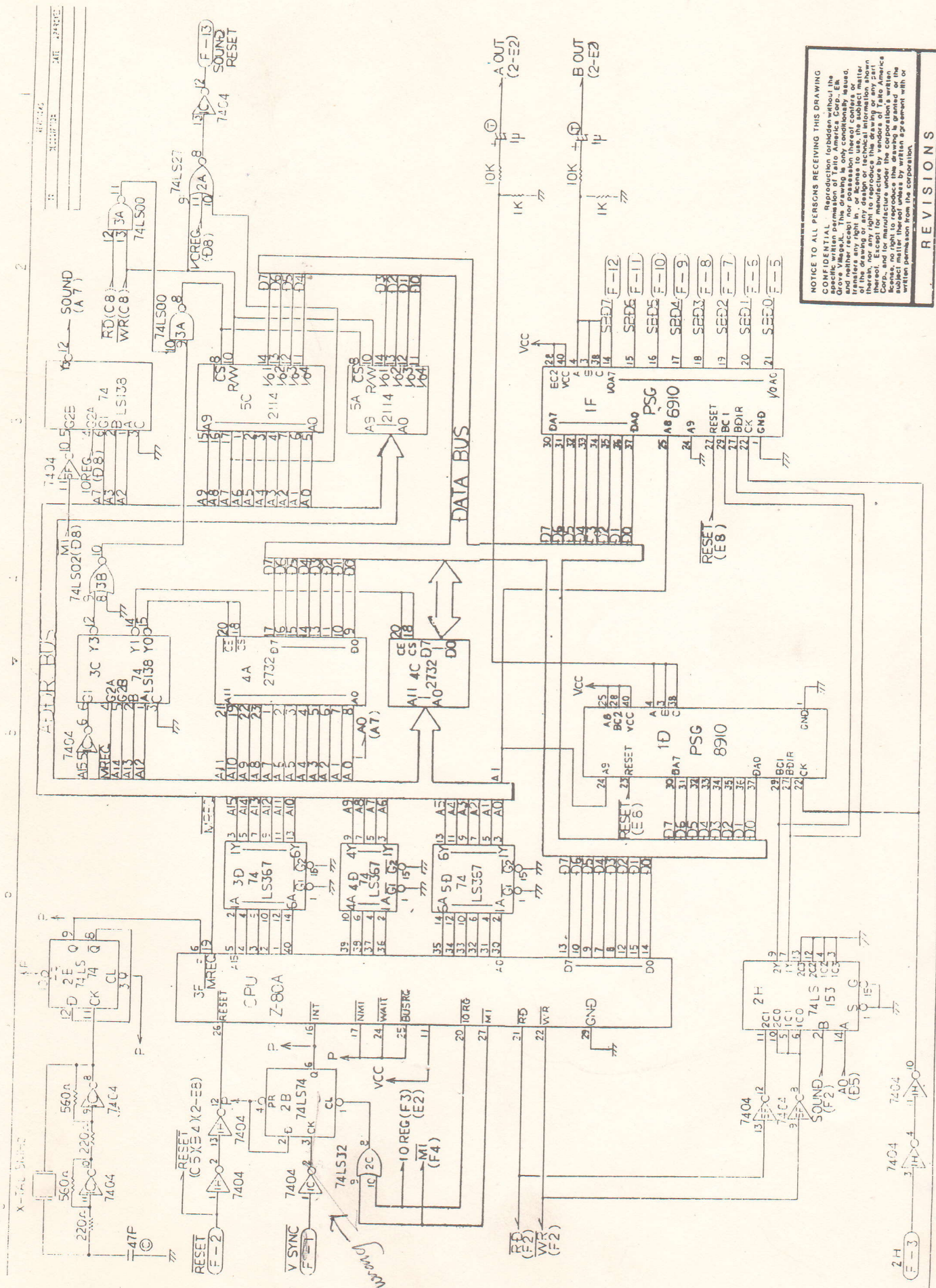
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SOUND BOARD LAYOUT

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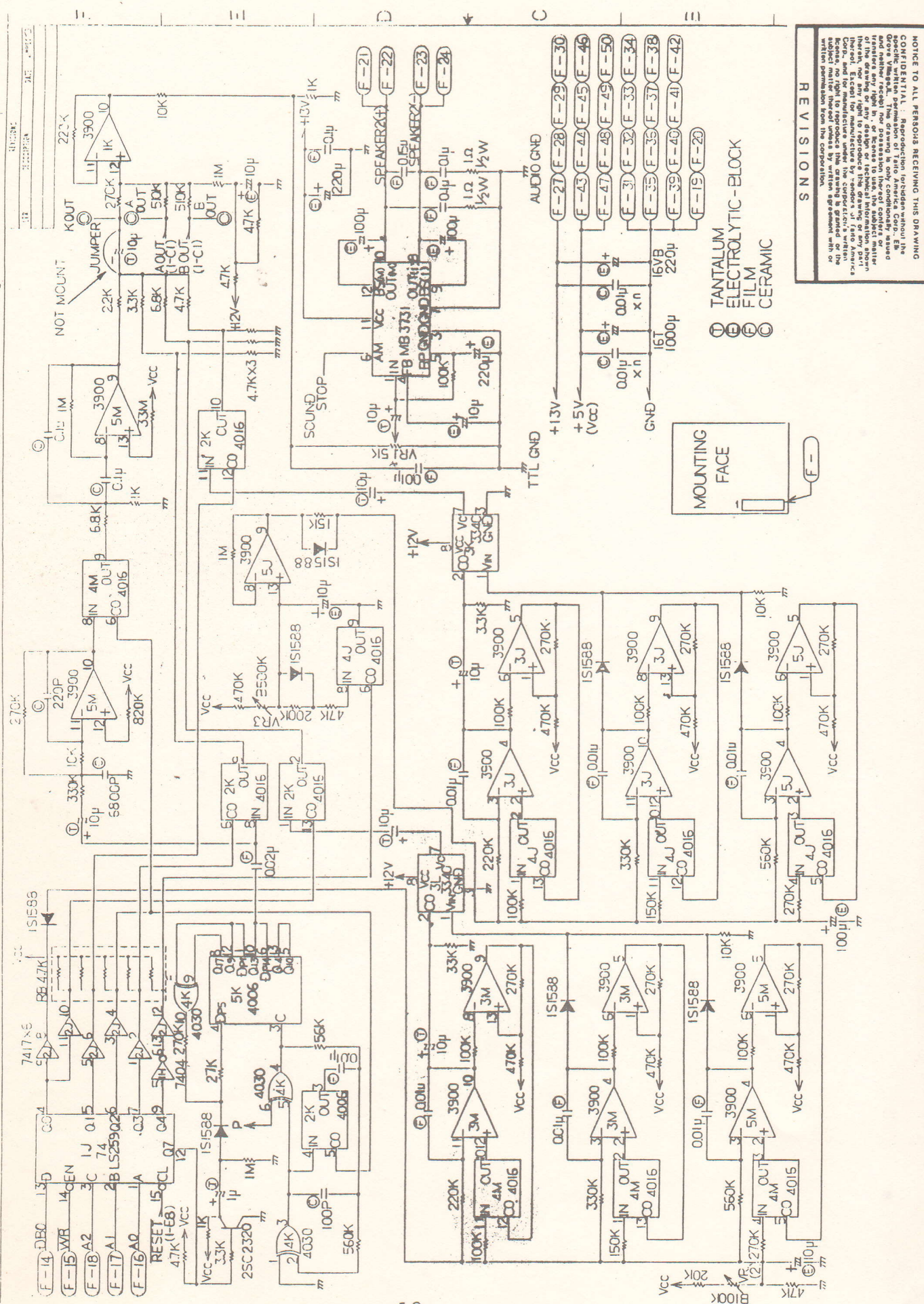
SOUND BOARD 1/2

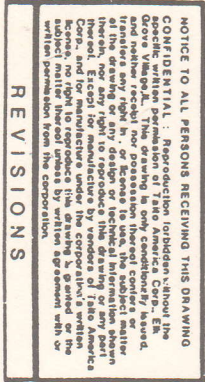


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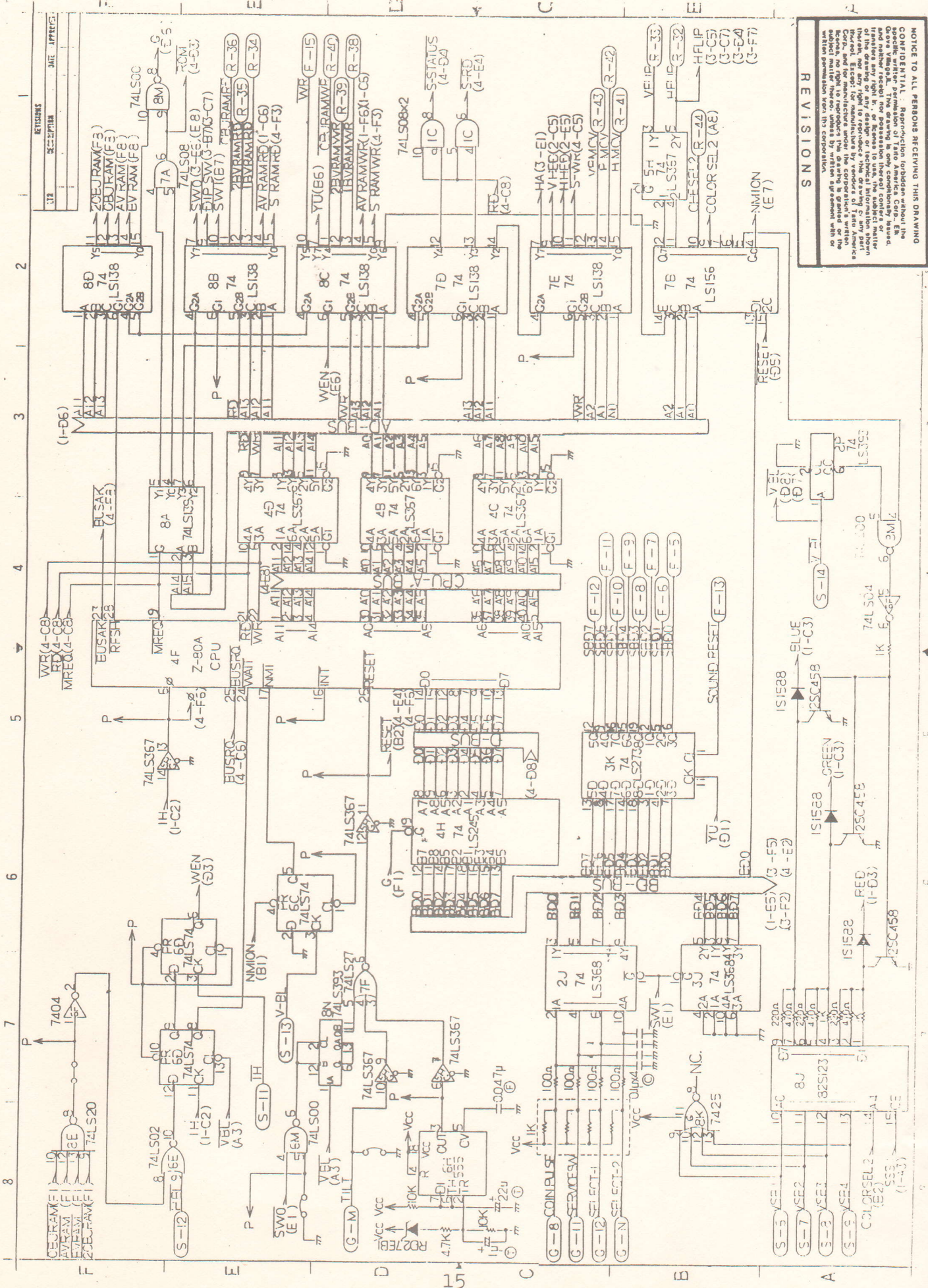
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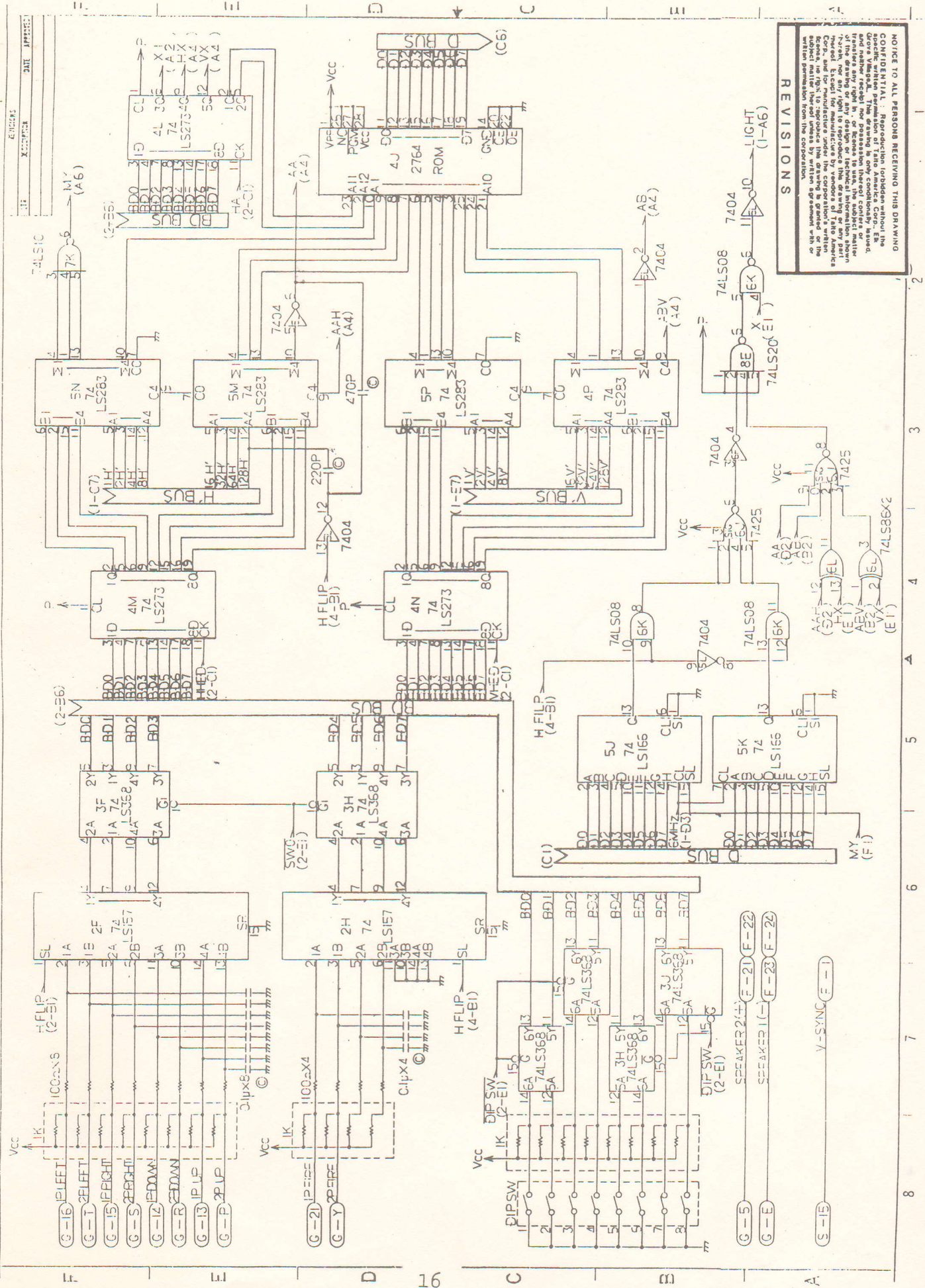




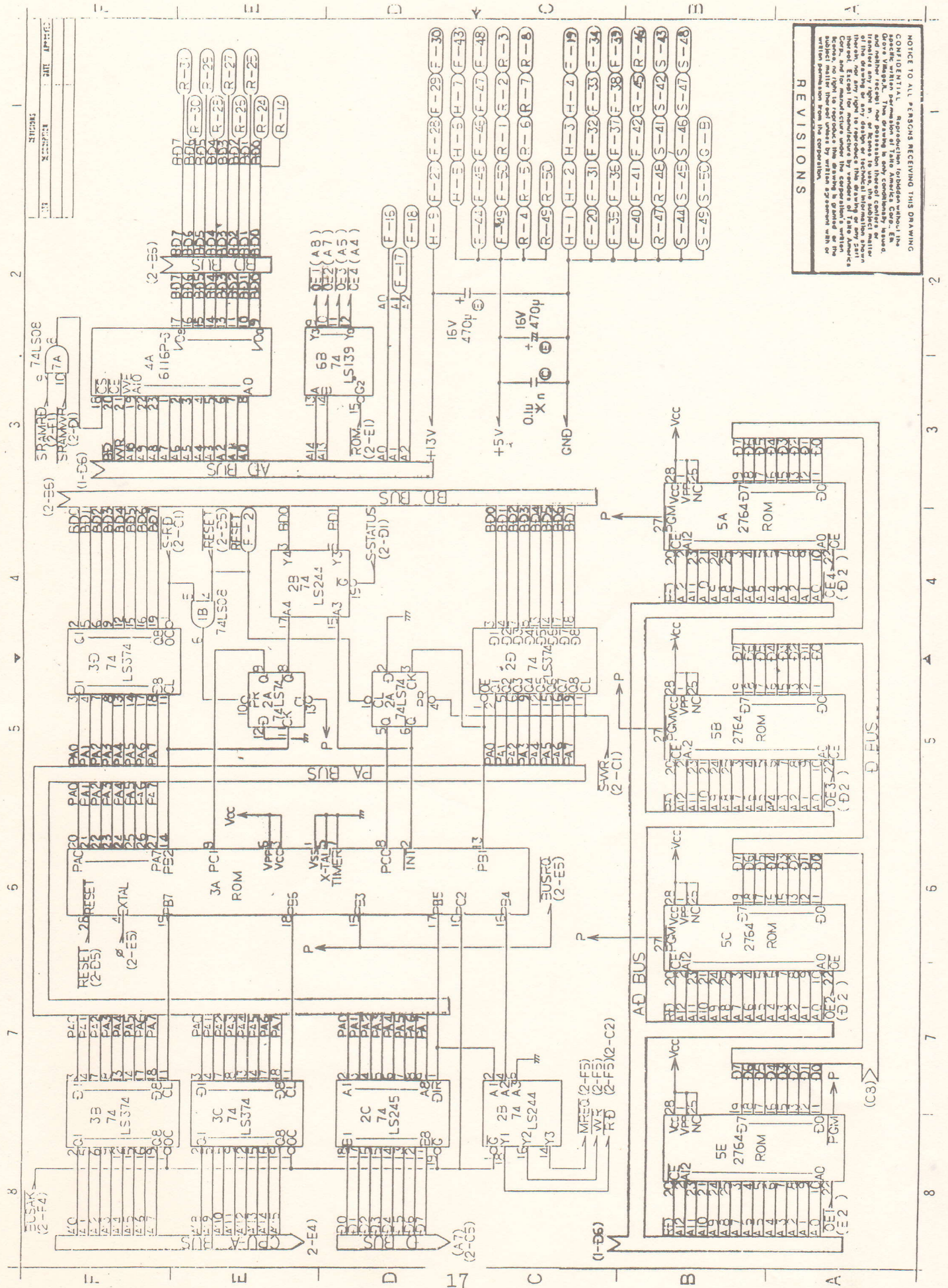
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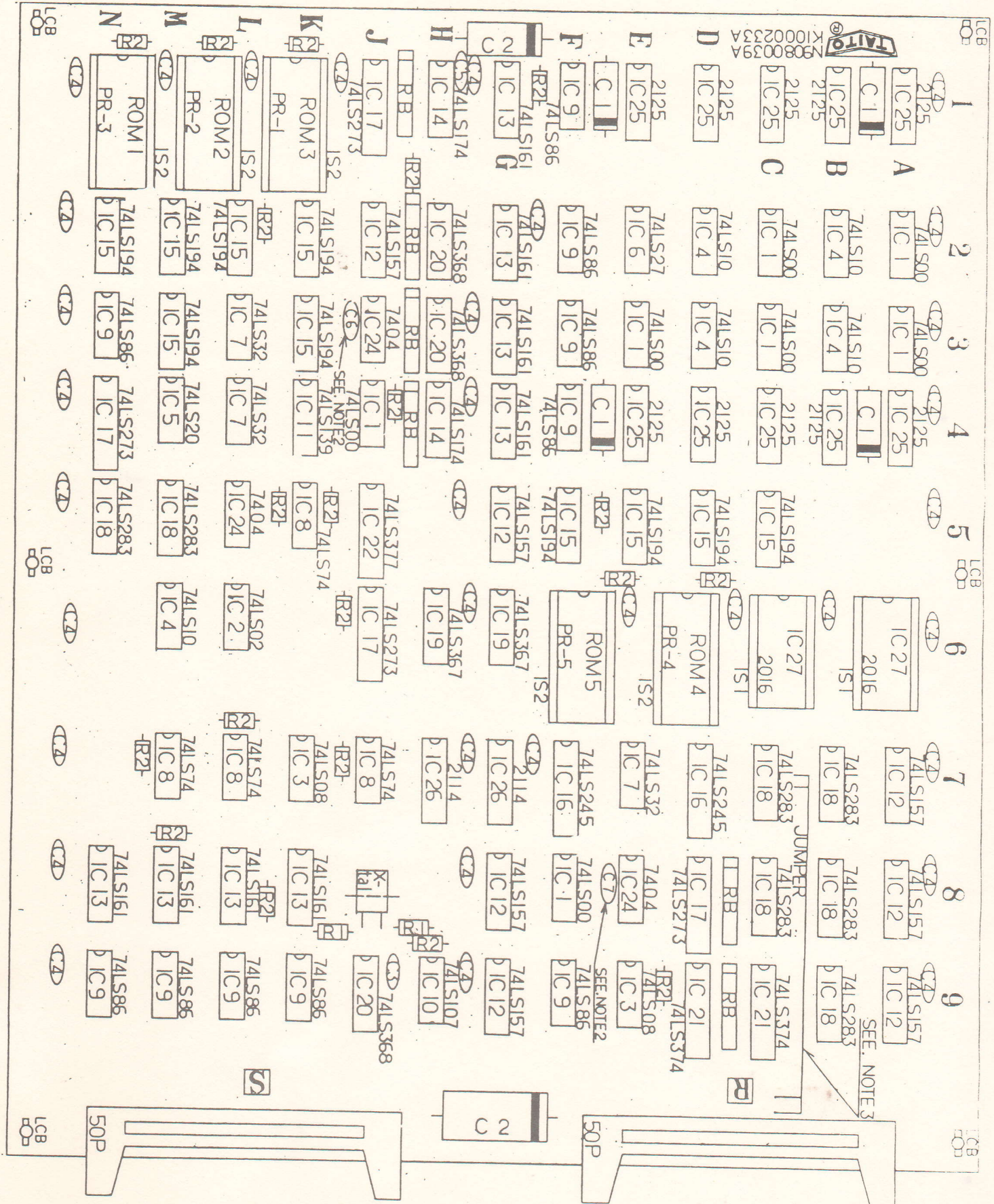


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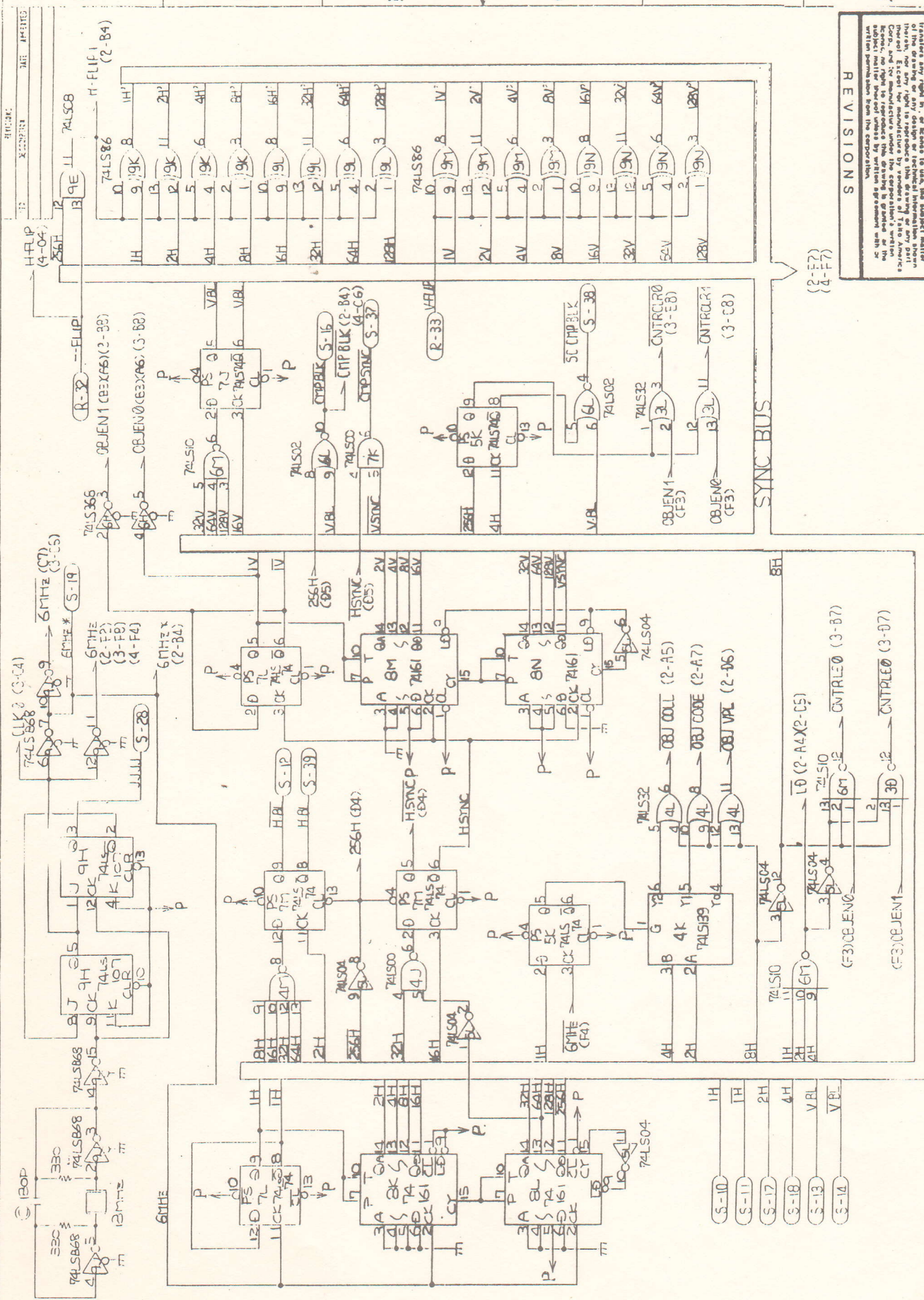
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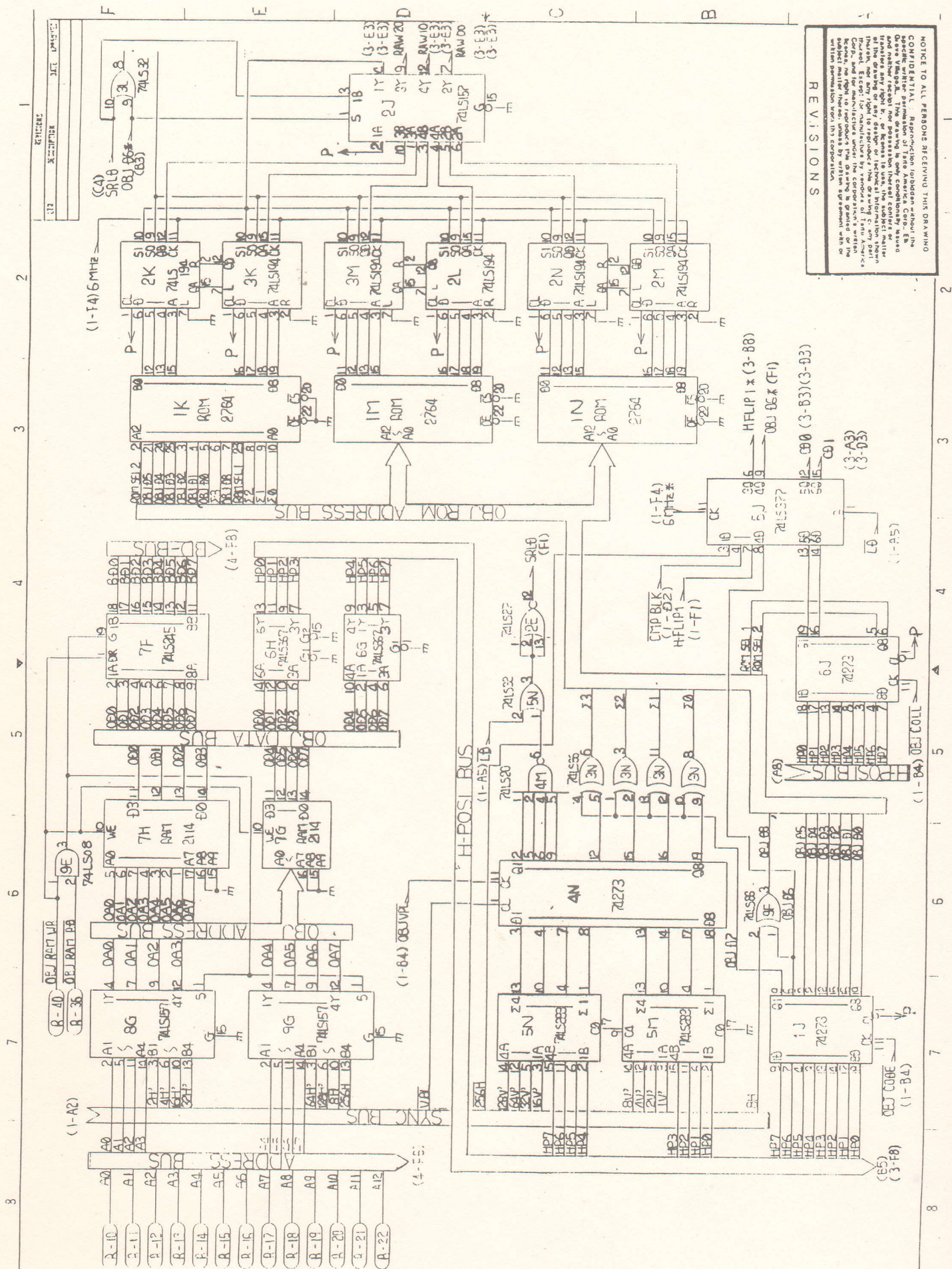
VIDEO BOARD LAYOUT



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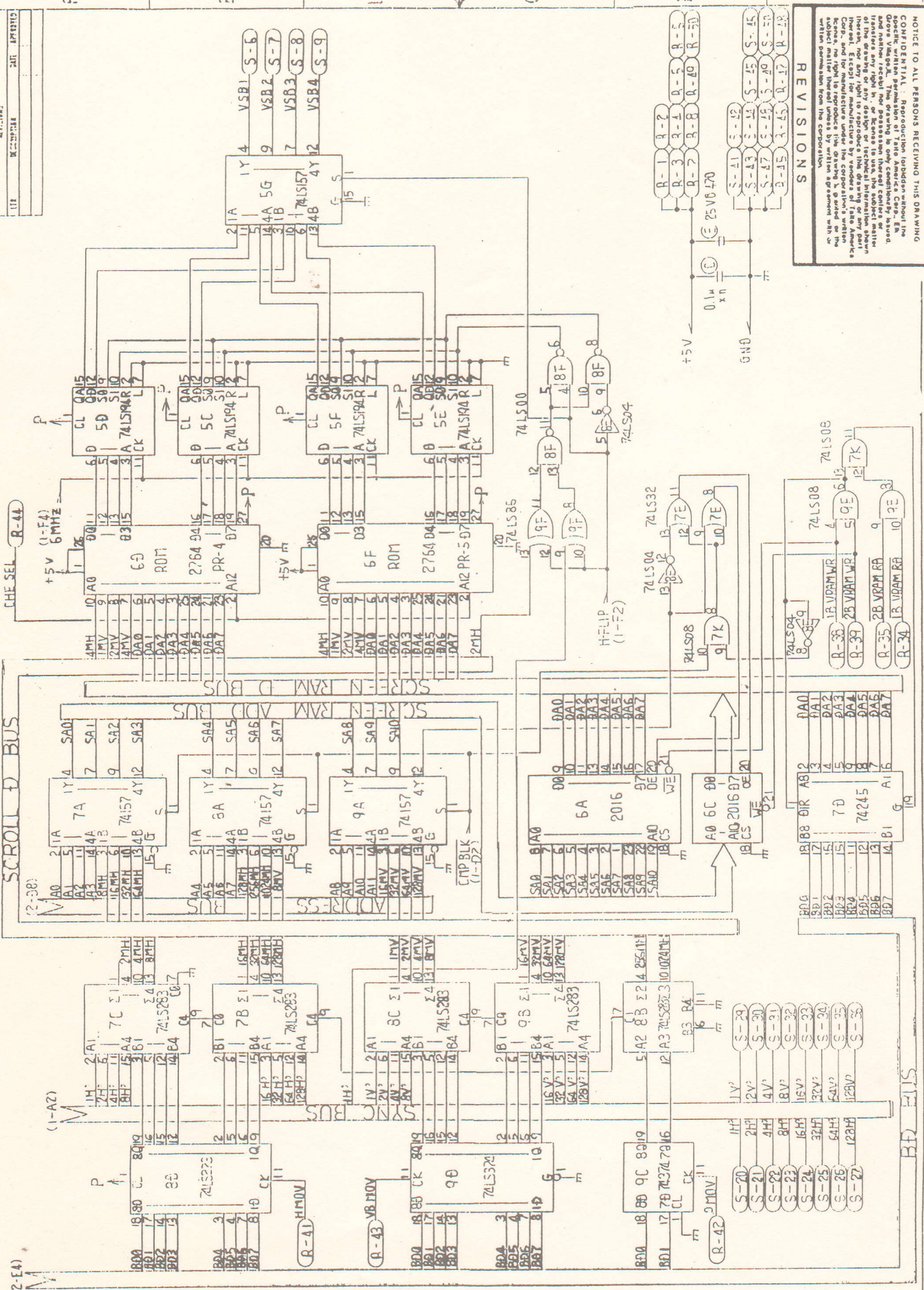
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REVISIONS

37-1	37-2	37-3	37-4	37-5	37-6	37-7	37-8	37-9	37-10	37-11	37-12	37-13	37-14	37-15	37-16	37-17	37-18	37-19	37-20	37-21	37-22	37-23	37-24	37-25	37-26	37-27	37-28	37-29	37-30	37-31	37-32	37-33	37-34	37-35	37-36	37-37	37-38	37-39	37-40	37-41	37-42	37-43	37-44	37-45	37-46	37-47	37-48	37-49	37-50	37-51	37-52	37-53	37-54	37-55	37-56	37-57	37-58	37-59	37-60	37-61	37-62	37-63	37-64	37-65	37-66	37-67	37-68	37-69	37-70	37-71	37-72	37-73	37-74	37-75	37-76	37-77	37-78	37-79	37-80	37-81	37-82	37-83	37-84	37-85	37-86	37-87	37-88	37-89	37-90	37-91	37-92	37-93	37-94	37-95	37-96	37-97	37-98	37-99	37-100	37-101	37-102	37-103	37-104	37-105	37-106	37-107	37-108	37-109	37-110	37-111	37-112	37-113	37-114	37-115	37-116	37-117	37-118	37-119	37-120	37-121	37-122	37-123	37-124	37-125	37-126	37-127	37-128	37-129	37-130	37-131	37-132	37-133	37-134	37-135	37-136	37-137	37-138	37-139	37-140	37-141	37-142	37-143	37-144	37-145	37-146	37-147	37-148	37-149	37-150	37-151	37-152	37-153	37-154	37-155	37-156	37-157	37-158	37-159	37-160	37-161	37-162	37-163	37-164	37-165	37-166	37-167	37-168	37-169	37-170	37-171	37-172	37-173	37-174	37-175	37-176	37-177	37-178	37-179	37-180	37-181	37-182	37-183	37-184	37-185	37-186	37-187	37-188	37-189	37-190	37-191	37-192	37-193	37-194	37-195	37-196	37-197	37-198	37-199	37-200	37-201	37-202	37-203	37-204	37-205	37-206	37-207	37-208	37-209	37-210	37-211	37-212	37-213	37-214	37-215	37-216	37-217	37-218	37-219	37-220	37-221	37-222	37-223	37-224	37-225	37-226	37-227	37-228	37-229	37-230	37-231	37-232	37-233	37-234	37-235	37-236	37-237	37-238	37-239	37-240	37-241	37-242	37-243	37-244	37-245	37-246	37-247	37-248	37-249	37-250	37-251	37-252	37-253	37-254	37-255	37-256	37-257	37-258	37-259	37-260	37-261	37-262	37-263	37-264	37-265	37-266	37-267	37-268	37-269	37-270	37-271	37-272	37-273	37-274	37-275	37-276	37-277	37-278	37-279	37-280	37-281	37-282	37-283	37-284	37-285	37-286	37-287	37-288	37-289	37-290	37-291	37-292	37-293	37-294	37-295	37-296	37-297	37-298	37-299	37-300	37-301	37-302	37-303	37-304	37-305	37-306	37-307	37-308	37-309	37-310	37-311	37-312	37-313	37-314	37-315	37-316	37-317	37-318	37-319	37-320	37-321	37-322	37-323	37-324	37-325	37-326	37-327	37-328	37-329	37-330	37-331	37-332	37-333	37-334	37-335	37-336	37-337	37-338	37-339	37-340	37-341	37-342	37-343	37-344	37-345	37-346	37-347	37-348	37-349	37-350	37-351	37-352	37-353	37-354	37-355	37-356	37-357	37-358	37-359	37-360	37-361	37-362	37-363	37-364	37-365	37-366	37-367	37-368	37-369	37-370	37-371	37-372	37-373	37-374	37-375	37-376	37-377	37-378	37-379	37-380	37-381	37-382	37-383	37-384	37-385	37-386	37-387	37-388	37-389	37-390	37-391	37-392	37-393	37-394	37-395	37-396	37-397	37-398	37-399	37-400	37-401	37-402	37-403	37-404	37-405	37-406	37-407	37-408	37-409	37-410	37-411	37-412	37-413	37-414	37-415	37-416	37-417	37-418	37-419	37-420	37-421	37-422	37-423	37-424	37-425	37-426	37-427	37-428	37-429	37-430	37-431	37-432	37-433	37-434	37-435	37-436	37-437	37-438	37-439	37-440	37-441	37-442	37-443	37-444	37-445	37-446	37-447	37-448	37-449	37-450	37-451	37-452	37-453	37-454	37-455	37-456	37-457	37-458	37-459	37-460	37-461	37-462	37-463	37-464	37-465	37-466	37-467	37-468	37-469	37-470	37-471	37-472	37-473	37-474	37-475	37-476	37-477	37-478	37-479	37-480	37-481	37-482	37-483	37-484	37-485	37-486	37-487	37-488	37-489	37-490	37-491	37-492	37-493	37-494	37-495	37-496	37-497	37-498	37-499	37-500	37-501	37-502	37-503	37-504	37-505	37-506	37-507	37-508	37-509	37-510	37-511	37-512	37-513	37-514	37-515	37-516	37-517	37-518	37-519	37-520	37-521	37-522	37-523	37-524	37-525	37-526	37-527	37-528	37-529	37-530	37-531	37-532	37-533	37-534	37-535	37-536	37-537	37-538	37-539	37-540	37-541	37-542	37-543	37-544	37-545	37-546	37-547	37-548	37-549	37-550	37-551	37-552	37-553	37-554	37-555	37-556	37-557	37-558	37-559	37-560	37-561	37-562	37-563	37-564	37-565	37-566	37-567	37-568	37-569	37-570	37-571	37-572	37-573	37-574	37-575	37-576	37-577	37-578	37-579	37-580	37-581	37-582	37-583	37-584	37-585	37-586	37-587	37-588	37-589	37-590	37-591	37-592	37-593	37-594	37-595	37-596	37-597	37-598	37-599	37-600	37-601	37-602	37-603	37-604	37-605	37-606	37-607	37-608	37-609	37-610	37-611	37-612	37-613	37-614	37-615	37-616	37-617	37-618	37-619	37-620	37-621	37-622	37-623	37-624	37-625	37-626	37-627	37-628	37-629	37-630	37-631	37-632	37-633	37-634	37-635	37-636	37-637	37-638	37-639	37-640	37-641	37-642	37-643	37-644	37-645	37-646	37-647	37-648	37-649	37-650	37-651	37-652	37-653	37-654	37-655	37-656	37-657	37-658	37-659	37-660	37-661	37-662	37-663	37-664	37-665	37-666	37-667	37-668	37-669	37-670	37-671	37-672	37-673	37-674	37-675	37-676	37-677	37-678	37-679	37-680	37-681	37-682	37-683	37-684	37-685	37-686	37-687	37-688	37-689	37-690	37-691	37-692	37-693	37-694	37-695	37-696	37-697	37-698	37-699	37-700	37-701	37-702	37-703	37-704	37-705	37-706	37-707	37-708	37-709	37-710	37-711	37-712	37-713	37-714	37-715	37-716	37-717	37-718	37-719	37-720	37-721	37-722	37-723	37-724	37-725	37-726	37-727	37-728	37-729	37-730	37-731	37-732	37-733	37-734	37-735	37-736	37-737	37-738	37-739	37-740	37-741	37-742	37-743	37-744	37-745	37-746	37-747	37-748	37-749	37-750	37-751	37-752	37-753	37-754	37-755	37-756	37-757	37-758	37-759	37-760	37-761	37-762	37-763	37-764	37-765	37-766	37-767	37-768	37-769	37-770	37-771	37-772	37-773	37-774	37-775	37-776	37-777	37-778	37-779	37-780	37-781	37-782	37-783	37-784	37-785	37-786	37-787	37-788	37-789	37-790	37-791	37-792	37-793	37-794	37-795	37-796	37-797	37-798	37-799	37-800	37-801	37-802	37-803	37-804	37-805	37-806	37-807	37-808	37-809	37-810	37-811	37-812	37-813	37-814	37-815	37-816	37-817	37-818	37-819	37-820	37-821	37-822	37-823	37-824	37-825	37-826	37-827	37-828	37-829	37-830	37-831	37-832	37-833	37-834	37-835	37-836	37-837	37-838	37-839	37-840	37-841	37-842	37-843	37-844	37-845	37-846	37-847	37-848	37-849	37-850	37-851	37-852	37-853	37-854	37-855	37-856	37-857	37-858	37-859	37-860	37-861	37-862	37-863	37-864	37-865	37-866	37-867	37-868	37-869	37-870	37-871	37-872	37-873	37-874	37-875	37-876	37-877	37-878	37-879	37-880	37-881	37-882	37-883	37-884	37-885	37-886	37-887	37-888	37-889	37-890	37-891	37-892	37-893	37-894	37-895	37-896	37-897	37-898	37-899	37-900	37-901	37-902	37-903	37-904	37-905	37-906	37-907	37-908	37-909	37-910	37-911	37-912	37-913	37-914	37-915	37-916	37-917	37-918	37-919	37-920	37-921	37-922	37-923	37-924	37-925	37-926	37-927	37-928	37-929	37-930	37-931	37-932	37-933	37-934	37-935	37-936	37-937	37-938	37-939	37-940	37-941	37-942	37-943	37-944	37-945	37-946	37-947	37-948	37-949	37-950	37-951	37-952	37-953	37-954	37-955	37-956	37-957	37-958	37-959	37-960	37-961	37-962	37-963	37-964	37-965	37-966	37-967	37-968	37-969	37-970	37-971	37-972	37-973	37-974	37-975	37-976	37-977	37-978	37-979	37-980	37-981	37-982	37-983	37-984	37-985	37-986	37-987	37-988	37-989	37-990	37-991	37-992	37-993	37-994	37-995	37-996	37-997	37-998	37-999	37-1000
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"PIT & RUN"

DIP SWITCH ADJUSTMENTS

COIN COUNT	DIP SWITCH		
	1	2	3
2 COINS / 1 PLAY	OFF	OFF	OFF
1 COIN / 1 PLAY	ON	OFF	OFF
1 COIN / 2 PLAYS	OFF	ON	OFF
1 COIN / 3 PLAYS	ON	ON	OFF
1 COIN / 4 PLAYS	OFF	OFF	ON
1 COIN / 5 PLAYS	ON	OFF	ON
1 COIN / 6 PLAYS	OFF	ON	ON
1 COIN / 7 PLAYS	ON	ON	ON
FREE PLAY			

SPECS.		DIP SWITCH		
		6	7	8
GASOLINE-COUNT (DIFFICULTY)	10 UP OR 10 DOWN	OFF		
	20 UP OR 10 DOWN	ON		
GAME TYPE	UPRIGHT		OFF	
	TABLE		ON	
GAME PLAY-MODE	NORMAL MODE			OFF
	NO-HIT MODE			ON

NOTICE AFTER CONVERSION:

Subject to the condition that this game was converted without deviation from the instructions which accompanied the Conversion Kit; Taito America Corporation has verified that this equipment complies with the requirements of Part 15 of FCC Rules for a Class A computing device. Operation of this equipment in a residential area may cause unacceptable interference to radio and TV reception requiring the operator to take whatever steps are necessary to correct the interference.

TAITO SER. NO.
509913

79-00070-001

Not valid unless this notice
bears a Taito Serial Number
label affixed at the factory.