



**MAIN LOGIC BOARD SCHEMATIC**

U.S. Patent #4,136,359  
Other U.S. and Foreign patents pending.

**NOTE:**  
PERIPHERAL CONNECTOR 0 DOES NOT GET I/O SELECT (PIN 1)  
2 ON PERIPHERAL CONNECTOR 7 ONLY. PIN 18 IS CONNECTED TO SYNC (C13-B1) AND PIN 35 IS CONNECTED TO COLOR REF (L13-2).

**I/O SELECTS**

74LS138-H12	1	A0	27	1/0 7 TO PIN 1, PERIPHERAL CONNECTOR 7
	2	A1	28	1/0 6 TO PIN 1
	3	A2	29	1/0 5 TO PIN 1
	4	A3	30	1/0 4 TO PIN 1
	5	A4	31	1/0 3 TO PIN 1
	6	A5	32	1/0 2 TO PIN 1
	7	A6	33	1/0 1 TO PIN 1
	8	A7	34	
	9	A8	35	
	10	A9	36	
	11	A10	37	
	12	A11	38	
	13	A12	39	
	14	A13	40	
	15	A14	41	
	16	A15	42	
	17	A16	43	
	18	A17	44	
	19	A18	45	
	20	A19	46	
	21	A20	47	
	22	A21	48	
	23	A22	49	
	24	A23	50	
	25	A24	51	
	26	A25	52	
	27	A26	53	
	28	A27	54	
	29	A28	55	
	30	A29	56	
	31	A30	57	
	32	A31	58	
	33	A32	59	
	34	A33	60	
	35	A34	61	
	36	A35	62	
	37	A36	63	
	38	A37	64	
	39	A38	65	
	40	A39	66	
	41	A40	67	
	42	A41	68	
	43	A42	69	
	44	A43	70	
	45	A44	71	
	46	A45	72	
	47	A46	73	
	48	A47	74	
	49	A48	75	
	50	A49	76	
	51	A50	77	
	52	A51	78	
	53	A52	79	
	54	A53	80	
	55	A54	81	
	56	A55	82	
	57	A56	83	
	58	A57	84	
	59	A58	85	
	60	A59	86	
	61	A60	87	
	62	A61	88	
	63	A62	89	
	64	A63	90	
	65	A64	91	
	66	A65	92	
	67	A66	93	
	68	A67	94	
	69	A68	95	
	70	A69	96	
	71	A70	97	
	72	A71	98	
	73	A72	99	
	74	A73	100	

**DEVICE SELECTS**

74LS138-H12	1	A0	27	DEV 7 TO PIN 41 PERIPHERAL CONNECTOR 7
	2	A1	28	DEV 6 TO PIN 41
	3	A2	29	DEV 5 TO PIN 41
	4	A3	30	DEV 4 TO PIN 41
	5	A4	31	DEV 3 TO PIN 41
	6	A5	32	DEV 2 TO PIN 41
	7	A6	33	DEV 1 TO PIN 41
	8	A7	34	
	9	A8	35	
	10	A9	36	
	11	A10	37	
	12	A11	38	
	13	A12	39	
	14	A13	40	
	15	A14	41	
	16	A15	42	
	17	A16	43	
	18	A17	44	
	19	A18	45	
	20	A19	46	
	21	A20	47	
	22	A21	48	
	23	A22	49	
	24	A23	50	
	25	A24	51	
	26	A25	52	
	27	A26	53	
	28	A27	54	
	29	A28	55	
	30	A29	56	
	31	A30	57	
	32	A31	58	
	33	A32	59	
	34	A33	60	
	35	A34	61	
	36	A35	62	
	37	A36	63	
	38	A37	64	
	39	A38	65	
	40	A39	66	
	41	A40	67	
	42	A41	68	
	43	A42	69	
	44	A43	70	
	45	A44	71	
	46	A45	72	
	47	A46	73	
	48	A47	74	
	49	A48	75	
	50	A49	76	
	51	A50	77	
	52	A51	78	
	53	A52	79	
	54	A53	80	
	55	A54	81	
	56	A55	82	
	57	A56	83	
	58	A57	84	
	59	A58	85	
	60	A59	86	
	61	A60	87	
	62	A61	88	
	63	A62	89	
	64	A63	90	
	65	A64	91	
	66	A65	92	
	67	A66	93	
	68	A67	94	
	69	A68	95	
	70	A69	96	
	71	A70	97	
	72	A71	98	
	73	A72	99	
	74	A73	100	

**NOTE:**  
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