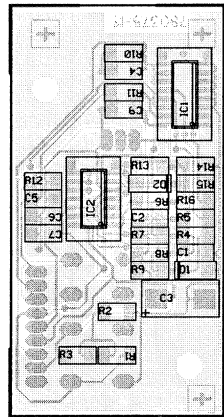
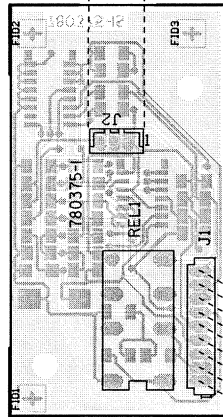


Name Interconnection DECODER MODULE		Article nr. 76 21745
Date 15-01-1995	Drawn JVDY	Checked JVST
BARCO PROJECTION SYSTEMS		



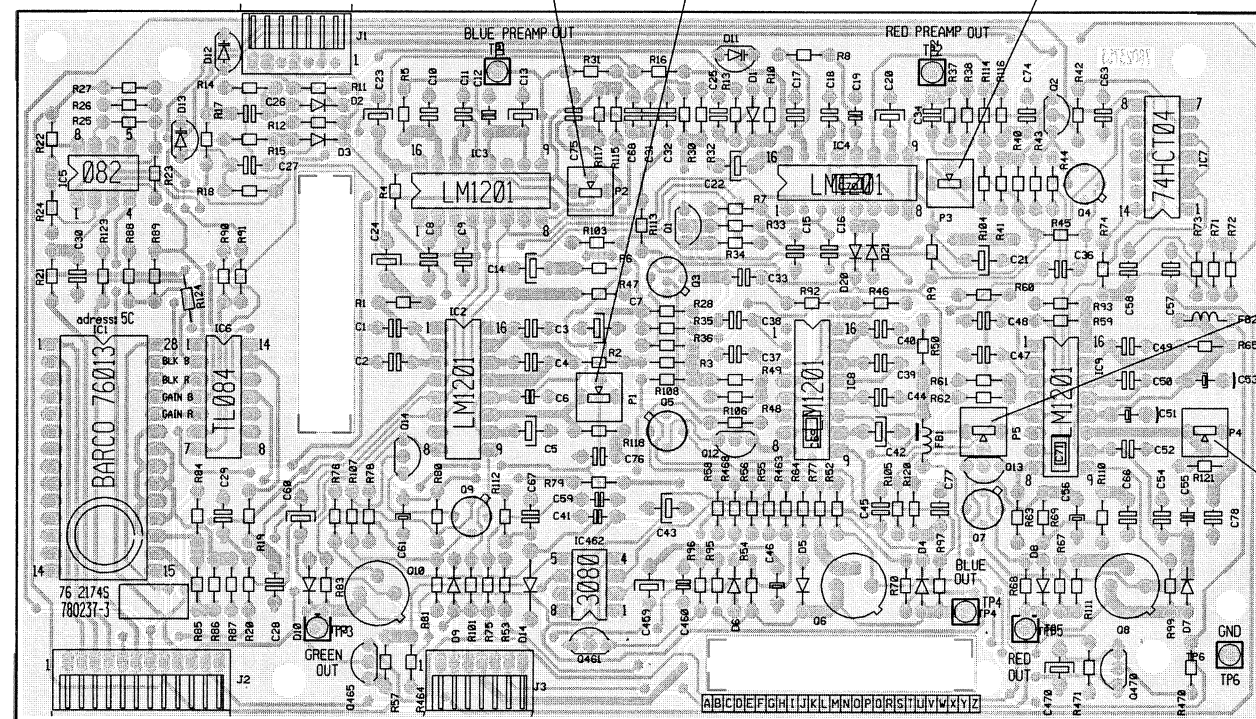
BOTTOM VIEW



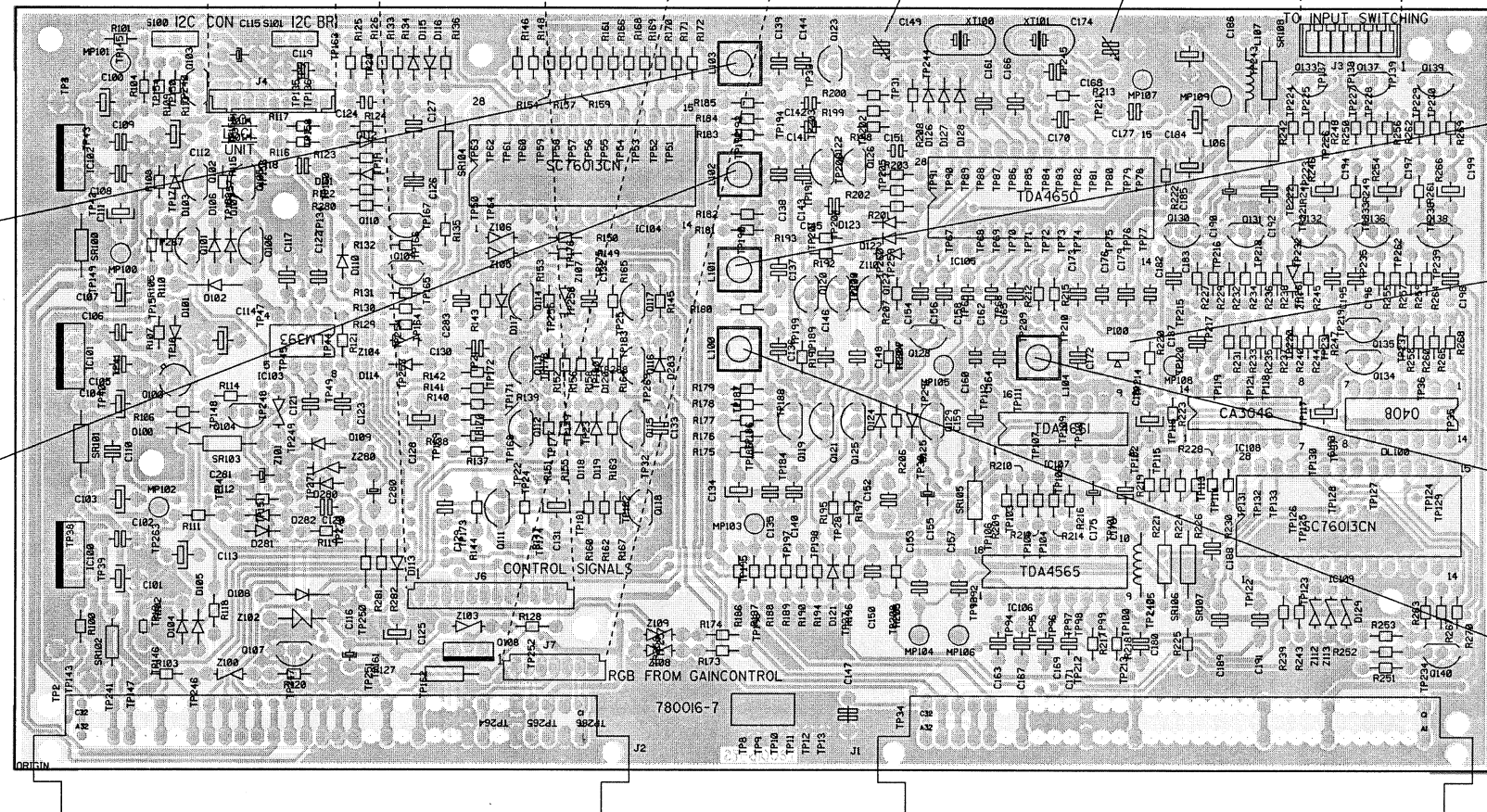
TOP VIEW

LINKED
BCL

From RGB INPUT & SWITCHING (J5)



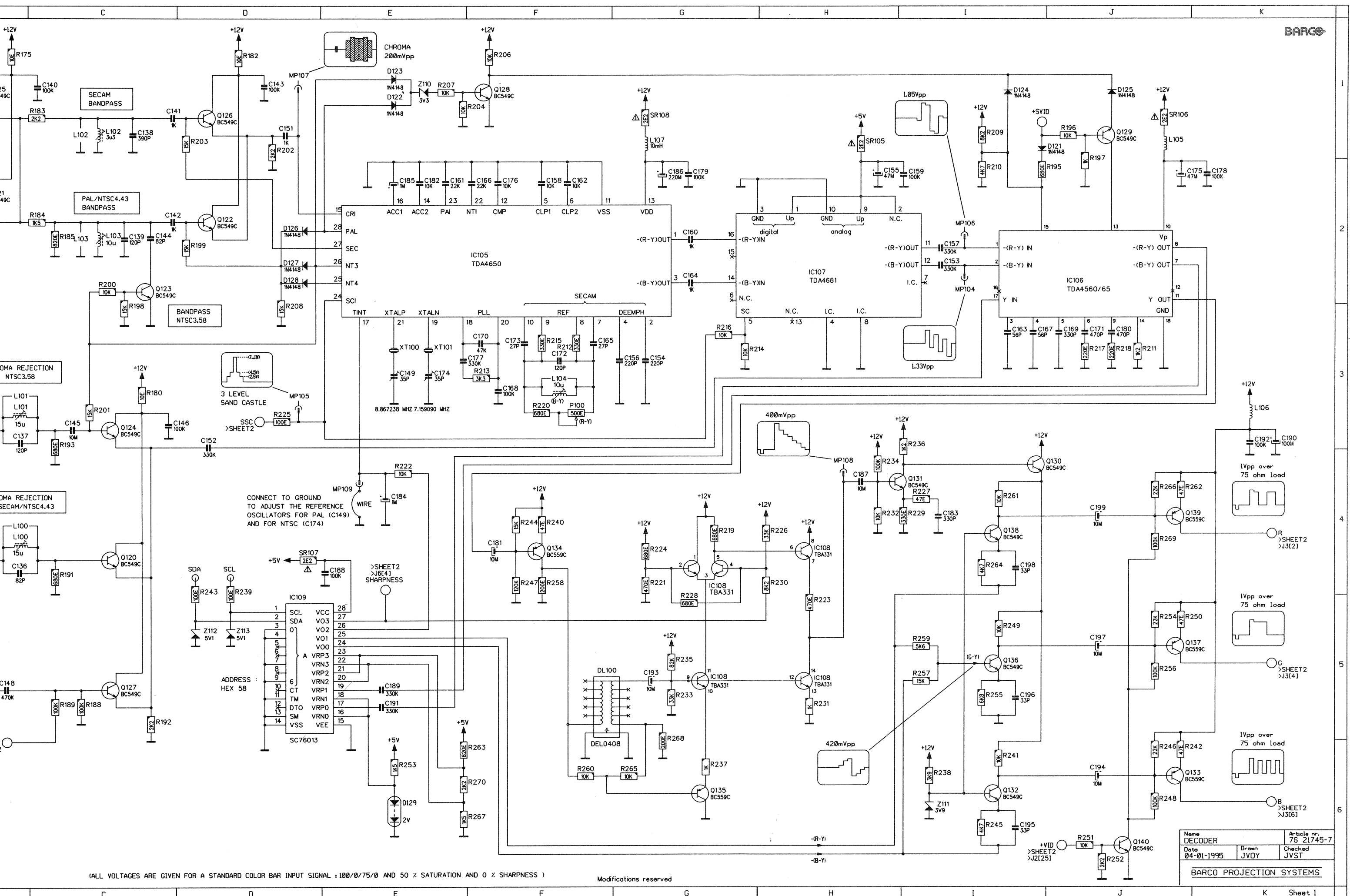
DECODER



Name DECODER + RGB DRIVER		Article nr. 76 21745-7
Date 20-02-1995	Drawn JVJD	Checked JVST
BARCO PROJECTION SYSTEMS		

Modifications reserved

COMP.	LOC.	COMP.	LOC.	COMP.	LOC.	COMP.	LOC.	COMP.	LOC.
C1	B 2	C168	F 4	MP103	E 5	R63	G 3	R196	E 6
C1	E 2	C169	F 6	MP104	F 6	R64	F 2	R197	E 5
C2	A 2	C170	F 4	MP105	F 5	R65	G 2	R198	E 4
C2	E 2	C171	F 5	MP106	F 6	R67	G 3	R199	E 4
C3	B 2	C172	F 5	MP107	F 4	R68	G 3	R200	E 4
C3	E 2	C173	F 5	MP108	F 5	R69	G 3	R201	F 4
C4	B 2	C174	F 4	MP109	F 4	R70	F 3	R202	E 4
C4	E 2	C175	F 5			R71	G 2	R203	F 4
C5	A 2	C176	F 5	P2	F 2	R72	G 2	R204	F 5
C5	E 2	C177	F 4	P1	F 2	R73	G 2	R205	F 6
C6	A 2	C178	F 5	P3	F 2	R74	G 2	R206	F 5
C6	E 2	C179	F 5	P4	G 2	R75	E 3	R207	F 5
C7	A 2	C180	F 6	P5	G 2	R76	E 2	R208	F 4
C7	F 2	C181	F 5	P100	F 5	R77	F 2	R209	F 5
C8	E 2	C182	F 5			R78	E 2	R210	F 5
C9	B 2	C183	F 5	O1	F 2	R79	E 2	R211	F 5
C9	E 2	C184	F 4	O2	G 1	R80	E 2	R212	F 5
C10	E 1	C185	F 4	O3	F 2	R81	E 3	R213	F 4
C11	E 1	C186	G 4	O4	G 2	R83	E 3	R214	F 5
C12	E 1	C187	F 5	O5	F 2	R84	D 2	R215	F 5
C13	E 1	C188	G 6	O6	F 3	R85	D 3	R216	F 5
C14	E 2	C189	G 6	O7	G 3	R86	D 3	R217	F 6
C15	F 2	C190	G 4	O8	G 3	R87	D 3	R218	F 5
C16	F 2	C191	G 6	O9	E 2	R88	D 2	R219	F 5
C17	F 1	C192	G 4	O10	E 3	R89	D 2	R220	F 4
C18	F 1	C193	G 5	O12	F 2	R90	D 2	R221	F 5
C19	F 1	C194	G 4	O13	G 2	R91	E 2	R222	F 4
C20	F 1	C195	G 5	O14	E 2	R92	F 2	R223	F 5
C21	G 2	C196	G 5	O100	C 5	R93	G 2	R224	F 5
C22	F 2	C197	G 4	O11	C 5	R95	F 3	R225	F 6
C23	E 1	C198	G 5	O102	D 4	R96	F 3	R226	G 5
C24	E 2	C199	G 4	O103	C 4	R97	F 3	R227	G 5
C25	F 1	C200	D 5	O104	D 5	R99	G 3	R228	F 5
C26	E 1	C201	D 5	O105	D 4	R100	C 6	R229	G 5
C27	E 2	C202	D 5	O106	D 5	R101	E 3	R230	G 5
C28	E 3	C459	F 3	O107	D 6	R101	C 4	R231	G 5
C29	D 2	C460	F 3	O108	D 6	R102	C 6	R232	G 5
C30	D 2	C470	G 3	O109	D 5	R103	E 2	R233	G 5
C31	F 2			O110	D 4	R103	C 6	R234	G 5
C32	F 2	D1	B 2	O111	D 5	R104	G 2	R235	G 5
C33	F 2	D1	F 1	O112	E 5	R104	C 4	R236	G 5
C34	F 1	D2	B 2	O113	E 5	R105	F 2	R237	G 5
C36	G 2	D2	E 1	O114	E 5	R105	C 5	R238	G 5
C37	F 2	D3	E 2	O115	E 5	R106	F 2	R239	G 6
C38	F 2	D4	F 3	O116	E 5	R106	C 5	R240	G 5
C39	F 2	D5	F 3	O117	E 5	R107	E 2	R241	G 4
C40	F 2	D6	F 3	O118	E 5	R107	C 5	R242	G 4
C41	E 3	D7	G 3	O119	E 5	R108	F 2	R243	G 6
C42	F 2	D8	G 3	O120	E 5	R108	C 4	R244	G 5
C43	F 3	D9	E 3	O121	E 5	R109	C 4	R245	G 5
C44	F 2	D10	E 3	O122	E 4	R110	G 2	R246	G 4
C45	F 3	D11	F 1	O123	E 4	R110	C 5	R247	G 5
C46	F 3	D12	D 1	O124	E 5	R111	C 3	R248	G 4
C47	G 2	D13	D 1	O125	E 5	R111	C 5	R249	G 4
C48	G 2	D14	E 3	O126	F 4	R112	E 2	R250	G 4
C49	G 2	D20	F 2	O127	F 5	R112	D 5	R251	G 6
C50	G 2	D21	F 2	O128	F 5	R113	F 2	R252	G 6
C51	G 2	D100	C 5	O129	F 5	R113	C 4	R253	G 6
C52	G 2	D101	C 5	O130	F 4	R114	G 1	R254	C 4
C53	G 2	D102	C 5	O131	G 4	R114	D 5	R255	G 5
C54	G 2	D103	C 4	O132	G 4	R115	F 2	R256	G 4
C55	G 2	D104	C 6	O133	G 4	R115	D 4	R257	G 5
C56	G 3	D105	C 6	O134	G 5	R116	G 1	R258	G 5
C57	G 2	D106	D 4	O135	G 5	R116	D 4	R259	G 5
C58	G 2	D107	D 4	O136	G 4	R117	F 2	R260	G 5
C59	E 3	D108	D 6	O137	G 4	R117	C 4	R261	C 4
C60	E 3	D109	D 5	O138	G 4	R118	F 2	R262	G 4
C61	E 3	D110	D 5	O139	G 4	R118	D 6	R263	G 6
C63	G 1	D111	D 4	O140	G 6	R119	D 5	R264	G 5
C66	G 2	D112	D 4	O461	E 3	R120	F 2	R265	G 5
C67	E 2	D113	D 6	O465	E 3	R120	D 6	R266	G 4
C68	F 2	D114	D 5	O470	G 3	R121	G 2	R267	G 6
C69	F 2	D115	D 4			R121	D 5	R268	C 5
C70	F 2	D116	D 4	R1	A 2	R122	D 4	R269	G 4
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C76	F 2	D120	E 5	R3	A 2	R125	D 4	R282	D 6
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C100	C 4	D123	E 4	R4	E 2	R128	D 6	R468	F 2
C101	C 6	D124	F 5	R5	B 2	R129	D 5	R470	G 3
C102	C 5	D125	F 5	R5	E 1	R130	D 5	R471	G 3
C103	C 5	D126	F 4	R6	B 2	R131	D 5		
C104	C 5	D127	F 4	R6	F 2	R132	D 5	REL1	B 2
C105	C 5	D128	F 4	R7	A 2	R133	D 4		
C106	C 5	D129	G 6	R7	F 2	R134	D 4	S100	C 4
C107	C 5	D280	D 5	R8	B 2	R135	D 5	S101	D 4
C108	C 4	D281	D 5	R8	F 1	R136	D 4		
C109	C 4	D282	D 5	R9	A 2	R137	D 5	S1000	C 5
C110	C 5	D283	E 5	R9	F 2	R138	D 5	S101	C 5
C11	C 4			R10	B 2	R139	D 5	S102	C 6
C112	C 4	DL100	G 5	R10	F 1	R140	D 5	S103	D 5
C113	D 6			R11	B 2	R141	D 5	S104	D 4
C114	D 5	FBI	F 2	R11	E 1	R142	D 5	S105	F 5
C115	D 4	FBI	G 2	R12	A 2	R143	D 5	S106	F 6
C116	D 6			R12	E 1	R144	D 6	S107	G 6
C117	D 5	FBI	B 3	R13	A 2	R145	E 5	S108	C 4
C118	D 4	FBI	B 2	R13	F 1	R146	D 4		
C119	D 4	FBI	C 2	R14	B 2	R147	E 5	XT100	F 4
C120	D 5			R14	D 1	R148	E 4	XT101	F 4
C121	D 5	K1	B 2	R15	B 2	R149	E 5		
C122	D 5	K1	D 2	R15	E 1	R150	E 5	Z100	D 6
C123	D 5	K2	A 2	R16	B 2	R151	E 5	Z101	D 5
C124	D 4	K2	E 2	R16	F 1	R152	E 5	Z102	D 6
C125	D 6	K3	E 2	R17	D 1	R153	E 5	Z103	D 6
C126	D 4	K4	F 1	R18	D 2	R154	D 4	Z104	D 5
C127	D 4	K5	D 2	R19	E 3	R155	E 5	Z105	D 5
C128	D 5	K6	D 2	R20	E 3	R156	E 5	Z106	D 4
C129	D 5	K7	G 2	R21	D 2	R157	E 4	Z107	E 5
C130	D 5	K8	F 2	R22	D 1	R158	E 5	Z108	E 6
C131	E 5	K9	G 2	R23	D 2	R159	E 4	Z109	E 6
C132	E 5	K100	C 6	R24	D 2	R160	E 6	Z10	E 5
C133	E 5	K101	C 5	R25	D 1	R161	E 4	Z11	G 5
C134	E 5	K102	C 4	R26	D 1	R162	E 6	Z12	G 6
C135	E 5	K103	D 5	R27	D 1	R163	E 5	Z13	G 6
C136	E 5	K104	E 4	R28	F 2	R164	E 5	Z280	D 5
C137	E 5	K105	F 5	R30	F 2	R165	E 5		
C138	E 4	K106	F 6	R31	E 1	R166	E 4		
C139	E 4	K107	F 5	R32	F 2	R167	E 6		
C140	E 5	K108	G 5	R33	F 2	R168	E 4		
C141	E 4	K109	G 6	R34	F 2	R169	E 4		
C142	E 4	K462	E 3	R35	F 2	R170	E 4		
C143	E 4			R36	F 2	R171	E 4		
C144	E 4	J1	C 2	R37	G 1	R172	E 4		
C145	E 4	J1	E 1	R38	G 1	R173	E 6		
C146	E 5	J1	E 6	R40	G 1	R174	E 6		
C147	E 6	J2	B 2	R41	G 2	R175	E 5		
C148	F 5	J2	D 3	R42	G 1	R176	E 5		
C149	F 4	J2	E 6	R43	G 1	R177	E 5		
C150	F 6	J3	E 3	R44	G 2	R178	E 5		
C151	F 4	J3	G 4	R45	G 2	R179	E 5		
C152	F 5	J4	D 4	R46	F 2	R180	E 5		
C153	F 5	J6	D 6	R47	F 2	R181	E 4		
C154	F 5	J7	E 6	R48	F 2	R182	E 4		
C155	F 5			R49	F 2	R183	E 4		
C156	F 5	L100	E 5	R50	F 2	R184	E 4		
C157	F 5	L101	E 5	R52	F 2	R185	E 4		
C158	F 5	L102	E 4	R53	E 3	R186	E 6		
C159	F 5	L103	E 4	R54	F 2	R187	E 6		
C160	F 5	L104	F 5	R55	F 2	R188	E 6		
C161	F 4	L105	F 6	R56	F 2	R189	E 6		
C162	F 5	L106	G 4	R57	E 3	R190	E 6		
C163	F 6	L107	G 4	R58	F 2	R191	E 5		
C164	F 5			R59	G 2	R192	E 5		
C165	F 5	MP100	C 5	R60	G 2	R193	E 5		
C166	F 6	MP101	C 4	R61	F 2	R194	E 6		
C167	F 6	MP102	C 5	R62	F 2	R195	E 5		



(ALL VOLTAGES ARE GIVEN FOR A STANDARD COLOR BAR INPUT SIGNAL : 100/0/75/0 AND 50 % SATURATION AND 0 % SHARPNESS)

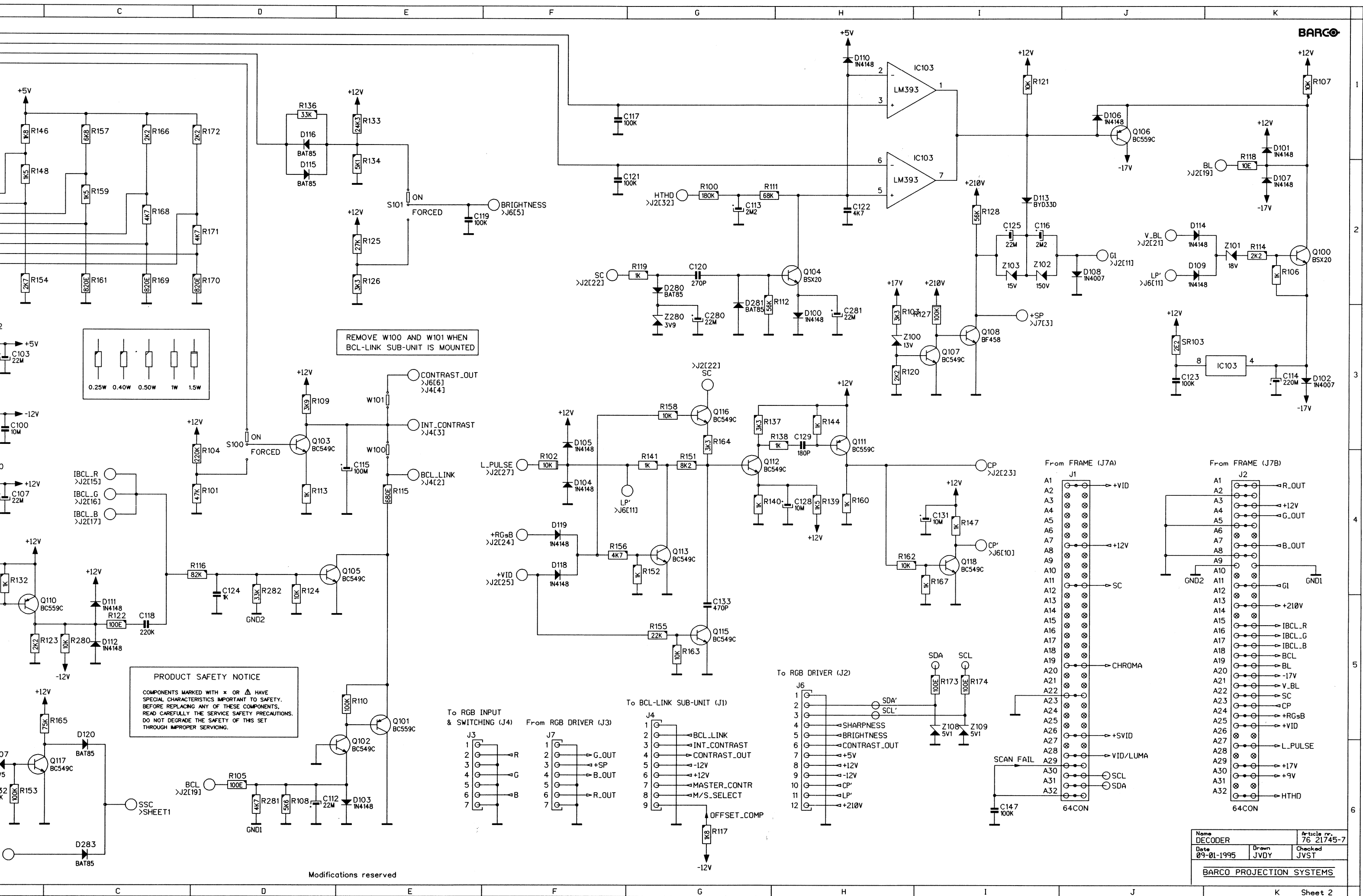
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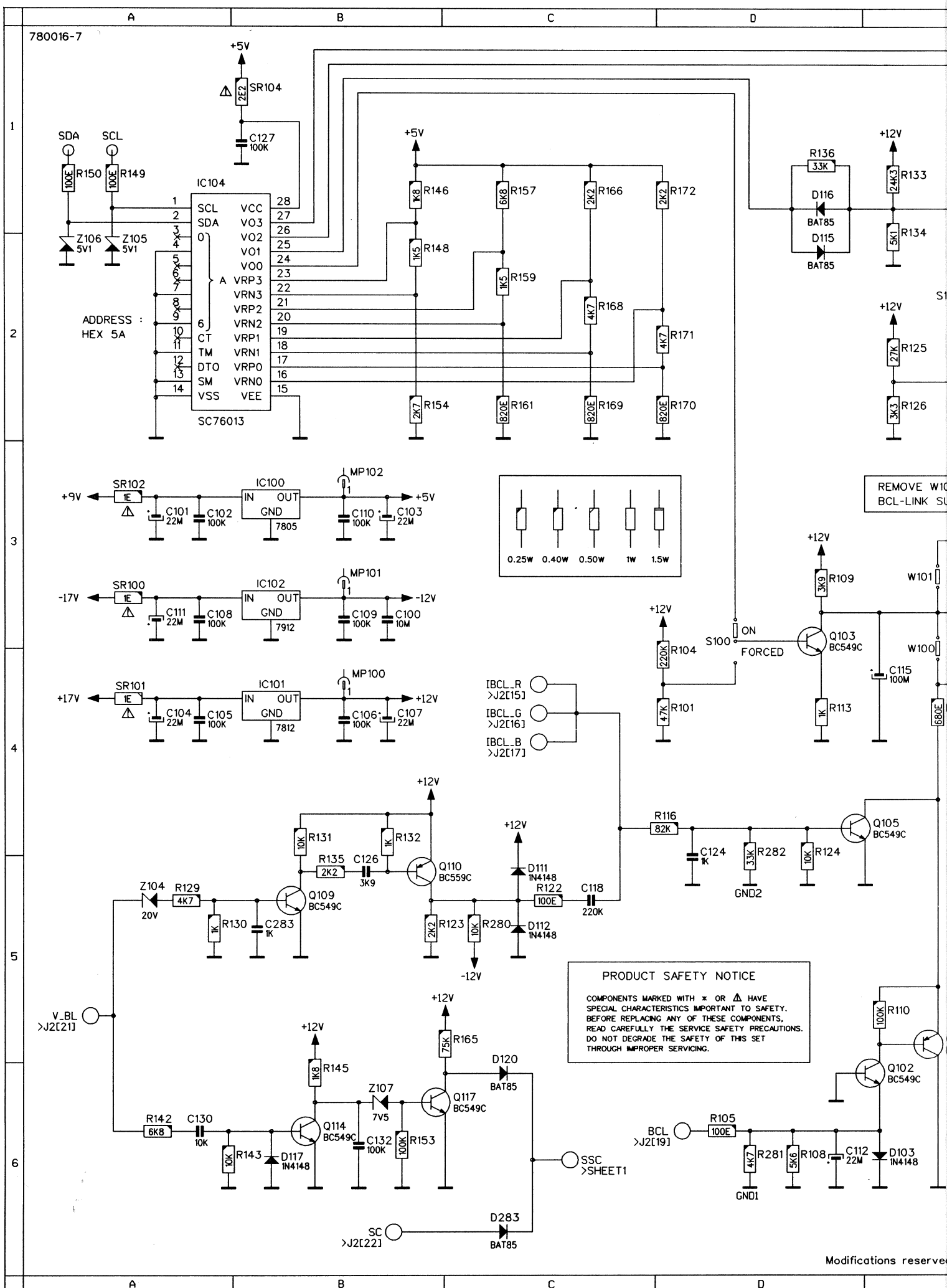
Name	DECODER	Article no.	76 21745-7
Date	04-01-1995	Drawn	JVDY
		Checked	JVST
BARCO PROJECTION SYSTEMS			



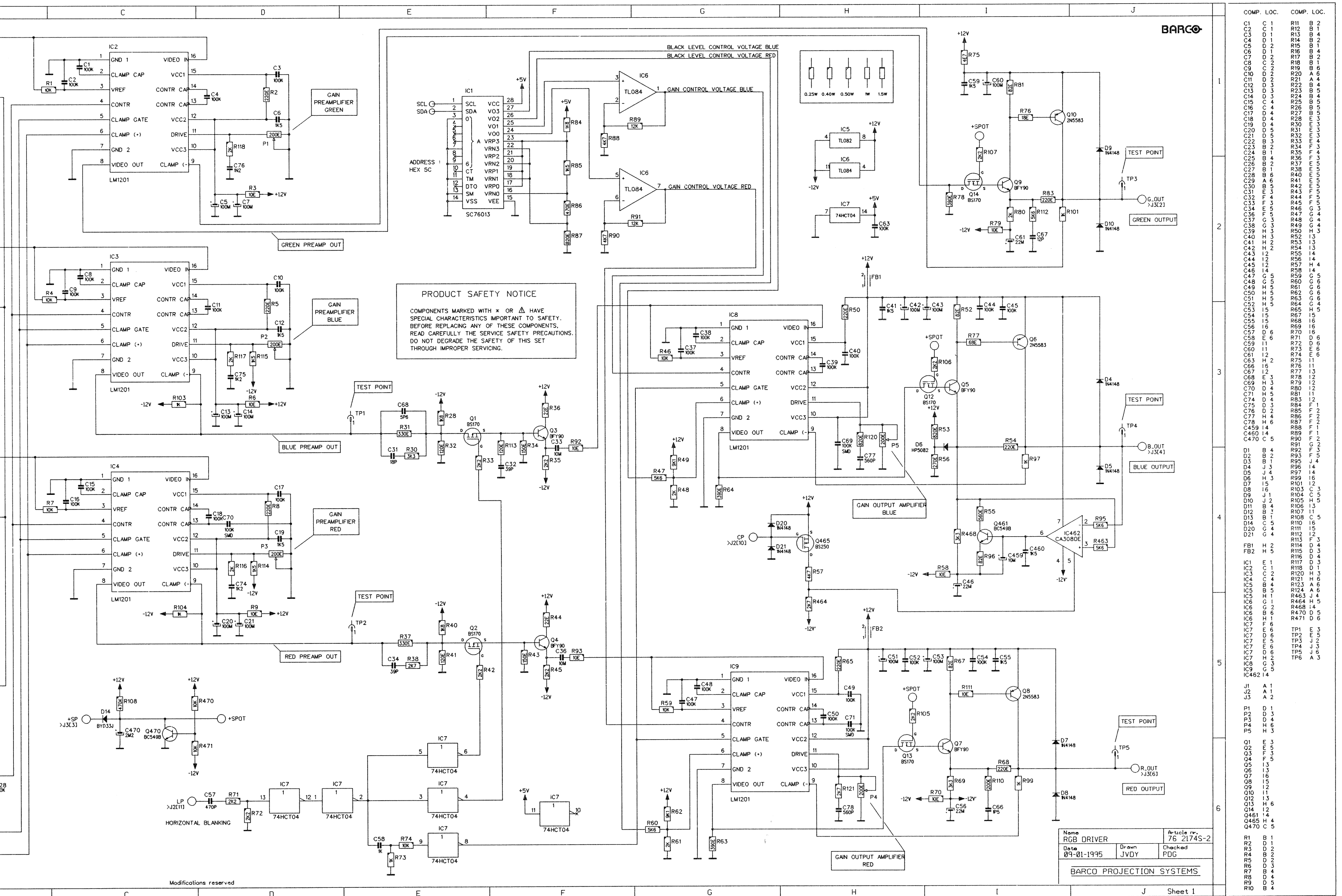
COMPONENTS MARKED WITH * OR Δ HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. BEFORE REPLACING ANY OF THESE COMPONENTS, READ CAREFULLY THE SERVICE SAFETY PRECAUTIONS. DO NOT DEGRADE THE SAFETY OF THIS SET THROUGH IMPROPER SERVICING.

(ALL VOLTAGES ARE GIVEN FOR A STANDARD COLOR BAR INPUT SIGNAL : 100/0/75/0)





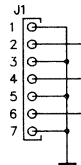
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COMP. LOC. SHEET				COMP. LOC. SHEET				COMP. LOC. SHEET				COMP. LOC. SHEET								
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	C101	A	3	sheet	2	D111	C	5	sheet	2	Q128	F	1	sheet	1	R200	C	2	sheet	1
	C102	A	3	sheet	2	D112	C	5	sheet	2	Q129	J	1	sheet	1	R201	C	3	sheet	1
	C103	B	3	sheet	2	D113	I	2	sheet	2	Q130	J	4	sheet	1	R202	D	1	sheet	1
	C104	A	4	sheet	2	D114	J	2	sheet	2	Q131	I	4	sheet	1	R203	D	1	sheet	1
	C105	A	4	sheet	2	D115	D	1	sheet	2	Q132	I	6	sheet	1	R204	F	1	sheet	1
	C106	B	4	sheet	2	D116	D	1	sheet	2	Q133	J	6	sheet	1	R205	B	1	sheet	1
	C107	B	4	sheet	2	D117	B	6	sheet	2	Q134	F	4	sheet	1	R206	F	1	sheet	1
	C108	A	3	sheet	2	D118	F	4	sheet	2	Q135	G	6	sheet	1	R207	E	1	sheet	1
	C109	B	3	sheet	2	D119	F	4	sheet	2	Q136	I	5	sheet	1	R208	D	2	sheet	1
2	C110	B	3	sheet	2	D120	C	5	sheet	2	Q137	J	5	sheet	1	R209	I	1	sheet	1
	C111	A	3	sheet	2	D121	J	1	sheet	1	Q138	I	4	sheet	1	R210	I	2	sheet	1
	C112	D	6	sheet	2	D122	E	1	sheet	1	Q139	J	4	sheet	1	R211	J	3	sheet	1
	C113	G	2	sheet	2	D123	E	1	sheet	1	Q140	J	6	sheet	1	R212	F	3	sheet	1
	C114	K	3	sheet	2	D124	I	1	sheet	1					R213	F	3	sheet	1	
	C115	E	4	sheet	2	D125	J	1	sheet	1	R100	G	2	sheet	2	R214	G	3	sheet	1
	C116	I	2	sheet	2	D126	D	2	sheet	1	R101	D	4	sheet	2	R215	F	3	sheet	1
	C117	F	1	sheet	2	D127	D	2	sheet	1	R102	F	4	sheet	2	R216	G	3	sheet	1
	C118	C	5	sheet	2	D128	D	2	sheet	1	R103	H	3	sheet	2	R217	J	3	sheet	1
	C119	E	2	sheet	2	D129	E	6	sheet	1	R104	D	3	sheet	2	R218	J	3	sheet	1
3	C120	G	2	sheet	2	D280	G	2	sheet	2	R105	D	6	sheet	2	R219	G	4	sheet	1
	C121	F	2	sheet	2	D281	G	2	sheet	2	R106	K	2	sheet	2	R220	F	3	sheet	1
	C122	H	2	sheet	2	D282	H	2	sheet	2	R107	K	1	sheet	2	R221	G	4	sheet	1
	C123	J	3	sheet	2	D283	C	6	sheet	2	R108	D	6	sheet	2	R222	E	4	sheet	1
	C124	D	4	sheet	2					R109	D	3	sheet	2	R223	H	5	sheet	1	
	C125	I	2	sheet	2	DL100	F	5	sheet	1	R110	E	5	sheet	2	R224	G	4	sheet	1
	C126	B	4	sheet	2					R111	G	2	sheet	2	R225	D	3	sheet	1	
	C127	B	1	sheet	2	IC100	B	3	sheet	2	R112	H	2	sheet	2	R226	H	4	sheet	1
	C128	H	4	sheet	2	IC101	B	4	sheet	2	R113	D	4	sheet	2	R227	I	4	sheet	1
	C129	H	3	sheet	2	IC102	B	3	sheet	2	R114	K	2	sheet	2	R228	G	4	sheet	1
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	C131	I	4	sheet	2	IC103	H	1	sheet	2	R116	D	4	sheet	2	R230	H	4	sheet	1
	C132	B	6	sheet	2	IC103	K	3	sheet	2	R117	G	6	sheet	2	R231	H	5	sheet	1
	C133	G	5	sheet	2	IC104	A	1	sheet	2	R118	K	1	sheet	2	R232	H	4	sheet	1
	C134	A	2	sheet	1	IC105	F	2	sheet	1	R119	G	2	sheet	2	R233	G	5	sheet	1
	C135	B	2	sheet	1	IC106	J	2	sheet	1	R120	H	3	sheet	2	R234	H	4	sheet	1
	C136	B	4	sheet	1	IC107	H	2	sheet	1	R121	I	1	sheet	2	R235	G	5	sheet	1
	C137	B	3	sheet	1	IC108	G	4	sheet	1	R122	C	5	sheet	2	R236	I	3	sheet	1
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	C145	C	3	sheet	1	J3	E	5	sheet	2	R130	A	5	sheet	2	R244	F	4	sheet	1
	C146	C	3	sheet	1	J4	G	5	sheet	2	R131	B	4	sheet	2	R245	I	6	sheet	1
	C147	I	6	sheet	2	J6	H	5	sheet	2	R132	B	4	sheet	2	R246	J	6	sheet	1
	C148	B	5	sheet	1	J7	F	5	sheet	2	R133	E	1	sheet	2	R247	F	4	sheet	1
	C149	E	3	sheet	1					R134	E	1	sheet	2	R248	J	6	sheet	1	
6	C150	B	1	sheet	1	L100	B	4	sheet	1	R135	B	4	sheet	2	R249	I	5	sheet	1
	C151	D	1	sheet	1	L100	A	3	sheet	1	R136	D	1	sheet	2	R250	J	5	sheet	1
	C152	D	3	sheet	1	L100	B	4	sheet	1	R137	G	3	sheet	2	R251	J	6	sheet	1
	C153	I	2	sheet	1	L100	B	4	sheet	1	R138	H	3	sheet	2	R252	J	6	sheet	1
	C154	G	3	sheet	1	L101	B	3	sheet	1	R139	H	4	sheet	2	R253	E	6	sheet	1
	C155	H	2	sheet	1	L101	B	3	sheet	1	R140	G	4	sheet	2	R254	J	5	sheet	1
	C156	G	3	sheet	1	L101	B	3	sheet	1	R141	G	4	sheet	2	R255	I	5	sheet	1
	C157	I	2	sheet	1	L101	A	4	sheet	1	R142	A	6	sheet	2	R256	J	5	sheet	1
	C158	F	2	sheet	1	L102	C	1	sheet	1	R143	B	6	sheet	2	R257	I	5	sheet	1
	C159	I	2	sheet	1	L102	C	1	sheet	1	R144	H	3	sheet	2	R258	F	4	sheet	1
7	C160	G	2	sheet	1	L102	C	1	sheet	1	R145	B	5	sheet	2	R259	I	5	sheet	1
	C161	E	2	sheet	1	L102	A	4	sheet	1	R146	B	1	sheet	2	R260	F	6	sheet	1
	C162	F	2	sheet	1	L103	C	2	sheet	1	R147	I	4	sheet	2	R261	I	4	sheet	1
	C163	I	3	sheet	1	L103	C	2	sheet	1	R148	B	2	sheet	2	R262	J	4	sheet	1
	C164	G	2	sheet	1	L103	C	2	sheet	1	R149	A	1	sheet	2	R263	F	6	sheet	1
	C165	F	3	sheet	1	L103	A	4	sheet	1	R150	A	1	sheet	2	R264	I	4	sheet	1
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	C168	F	3	sheet	1	L104	F	3	sheet	1	R153	B	6	sheet	2	R267	F	6	sheet	1
	C169	J	3	sheet	1	L104	A	4	sheet	1	R154	B	2	sheet	2	R268	G	5	sheet	1
8	C170	F	3	sheet	1	L105	J	1	sheet	1	R155	G	5	sheet	2	R269	J	4	sheet	1
	C171	J	3	sheet	1	L106	K	3	sheet	1	R156	F	4	sheet	2	R270	F	6	sheet	1
	C172	F	3	sheet	1	L107	G	1	sheet	1	R157	C	1	sheet	2	R280	C	5	sheet	2
	C173	F	3	sheet	1					R158	G	3	sheet	2	R281	D	6	sheet	2	
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	C175	J	2	sheet	1	MP101	B	3	sheet	2	R160	H	4	sheet	2					
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	C177	F	3	sheet	1	MP103	A	2	sheet	1	R162	H	4	sheet	2	S101	E	2	sheet	2
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	C179</																			



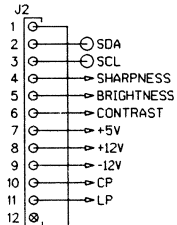
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C4	O 1	R14	B 2
C5	O 1	R15	B 1
C6	O 2	R16	B 2
C7	O 2	R17	B 1
C8	C 2	R18	B 1
C9	C 2	R19	B 6
C10	C 2	R20	A 6
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C16	C 4	R26	B 5
C17	D 4	R27	B 4
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C21	D 5	R31	B 4
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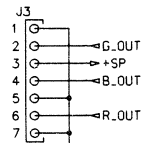
From RGB INPUT & SWITCHING (J5)



From DECODER (J6)



To DECODER (J7)



TEST POINT

TP6

SHARPNESS

>J2C43

CONTRAST

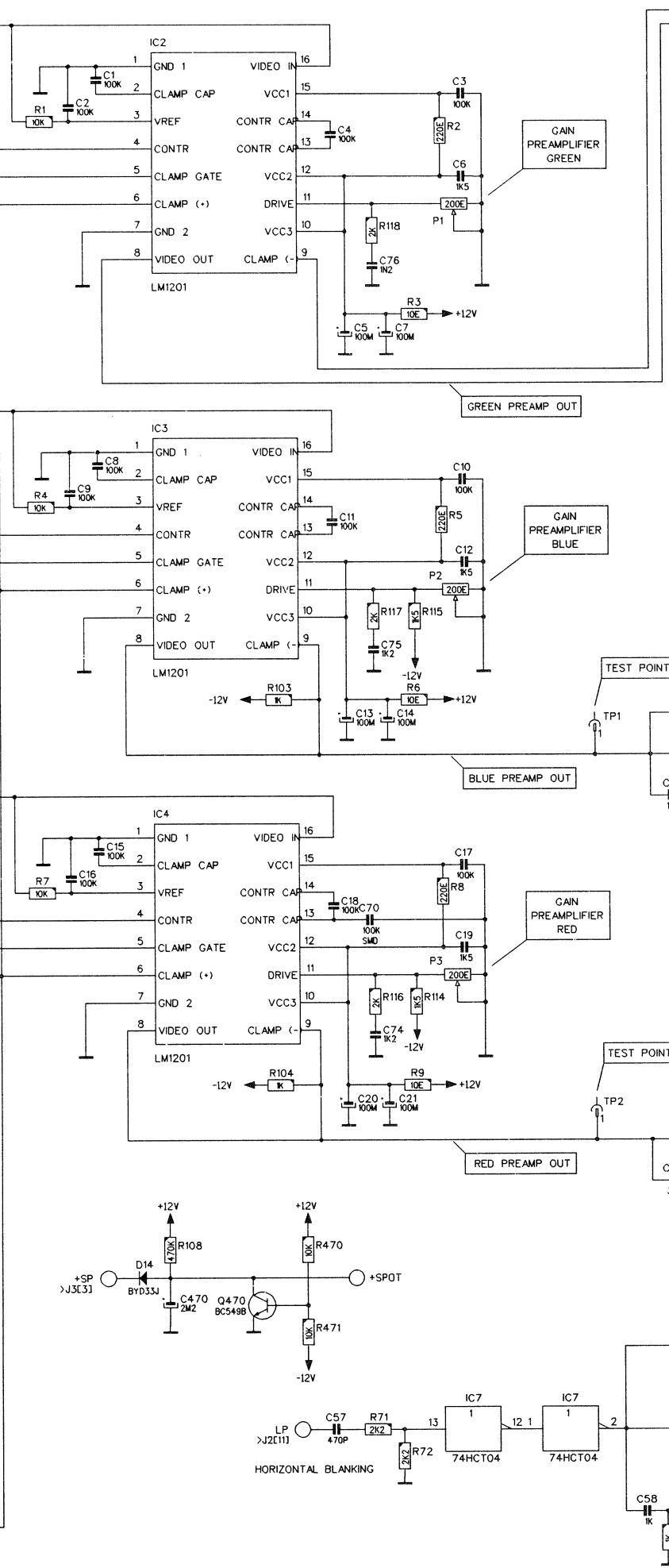
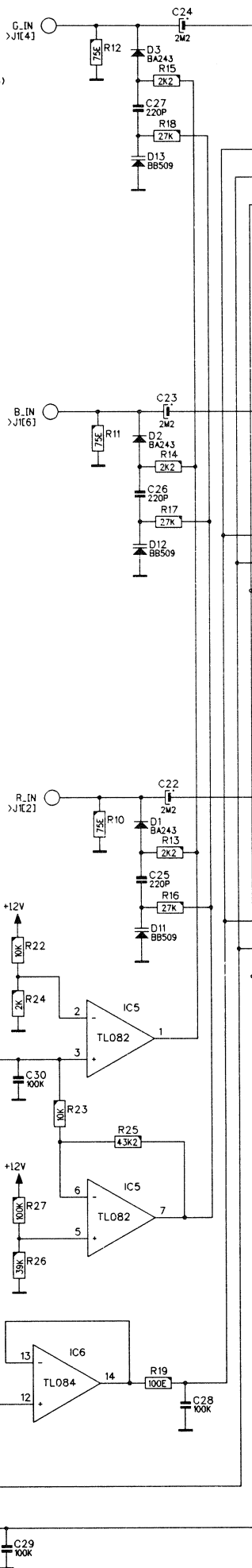
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CP

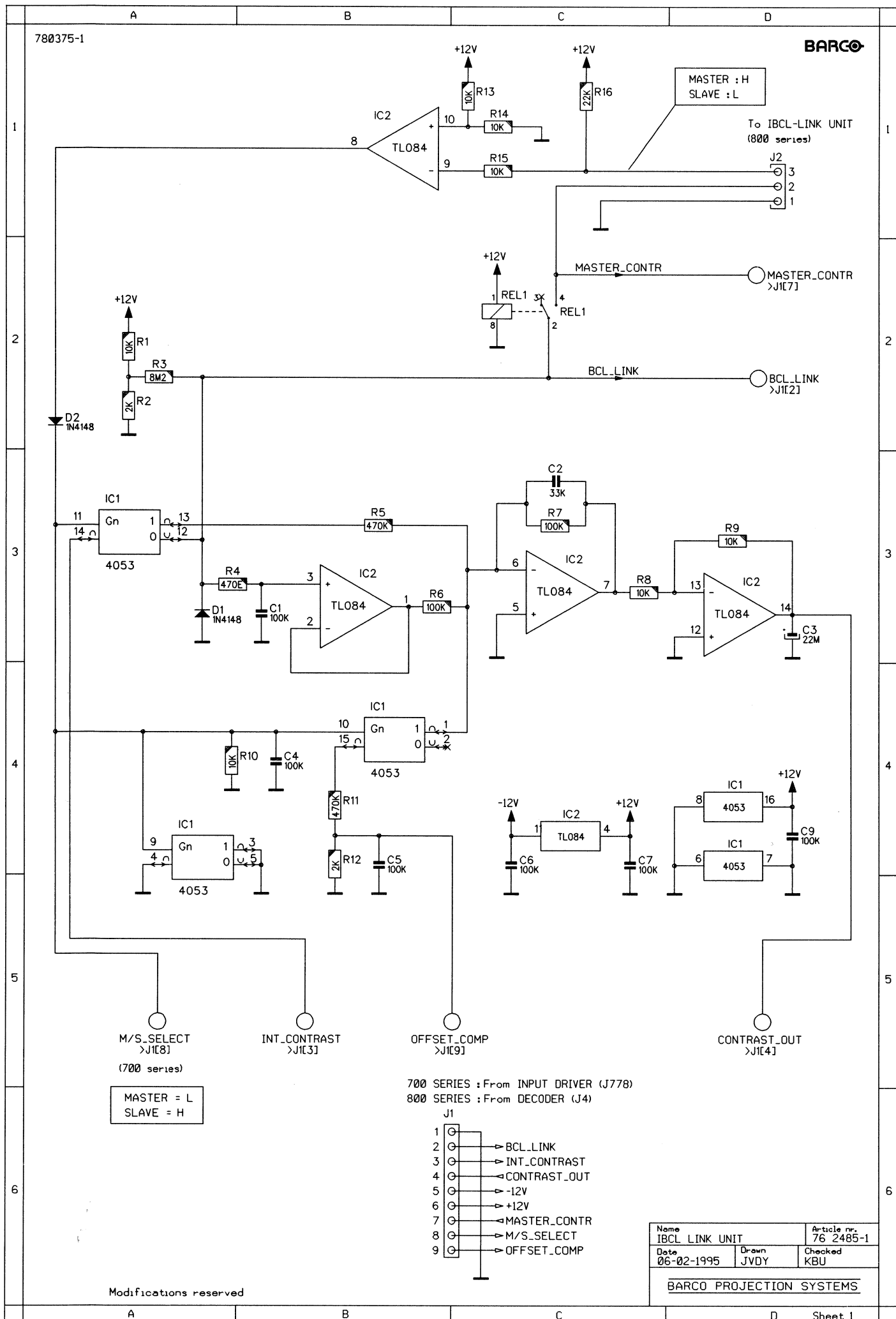
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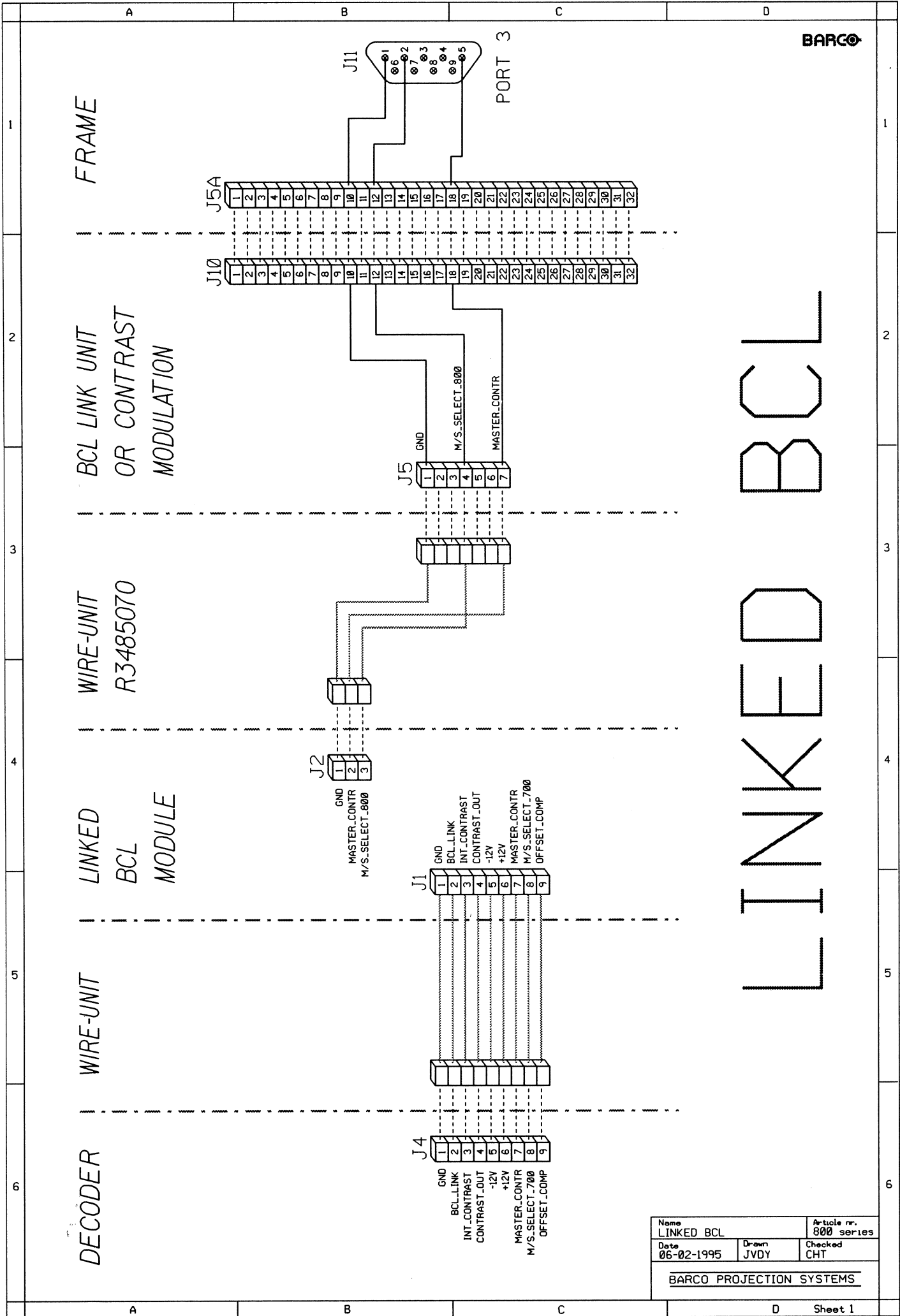
BRIGHTNESS

>J2C53

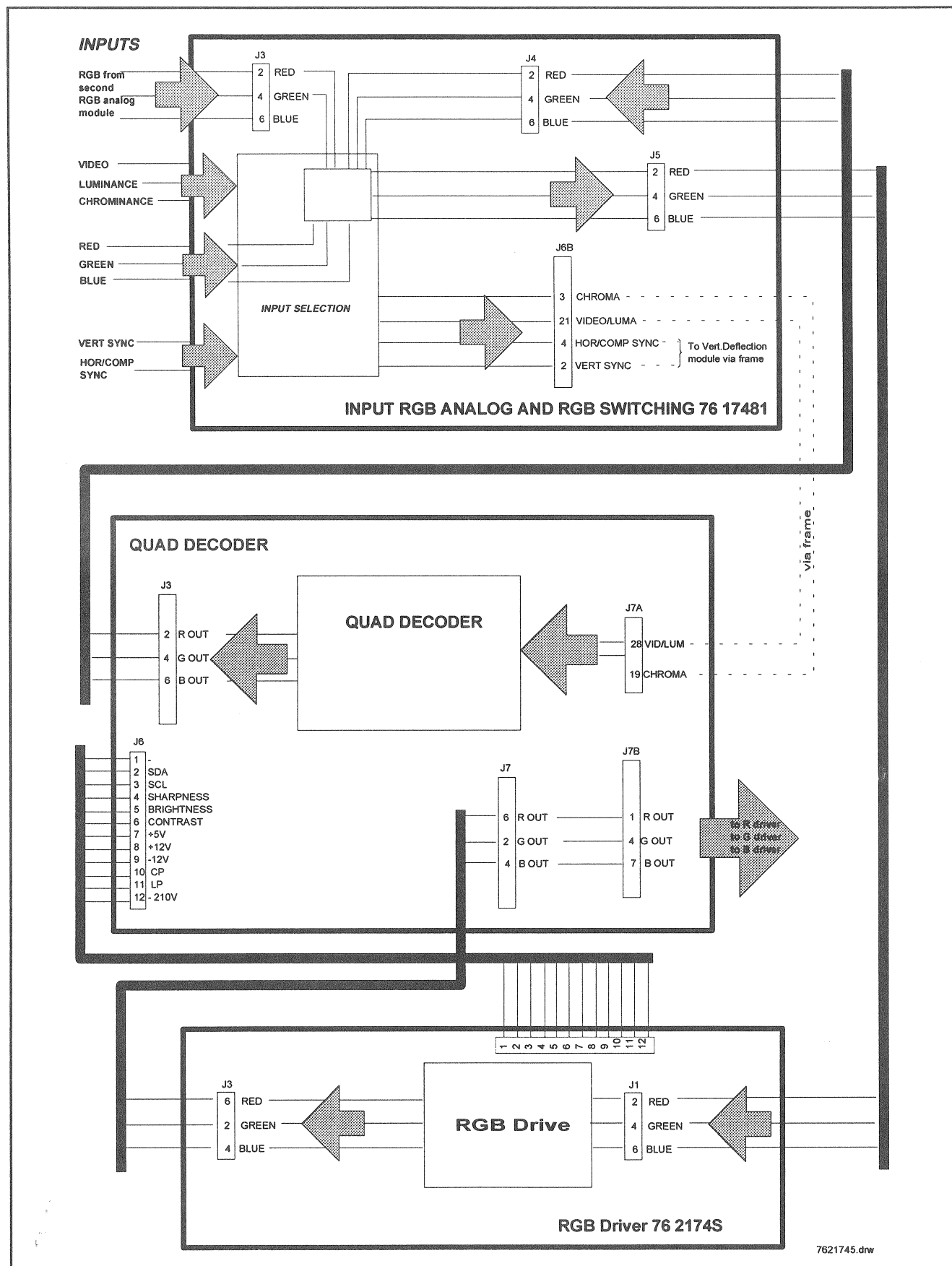


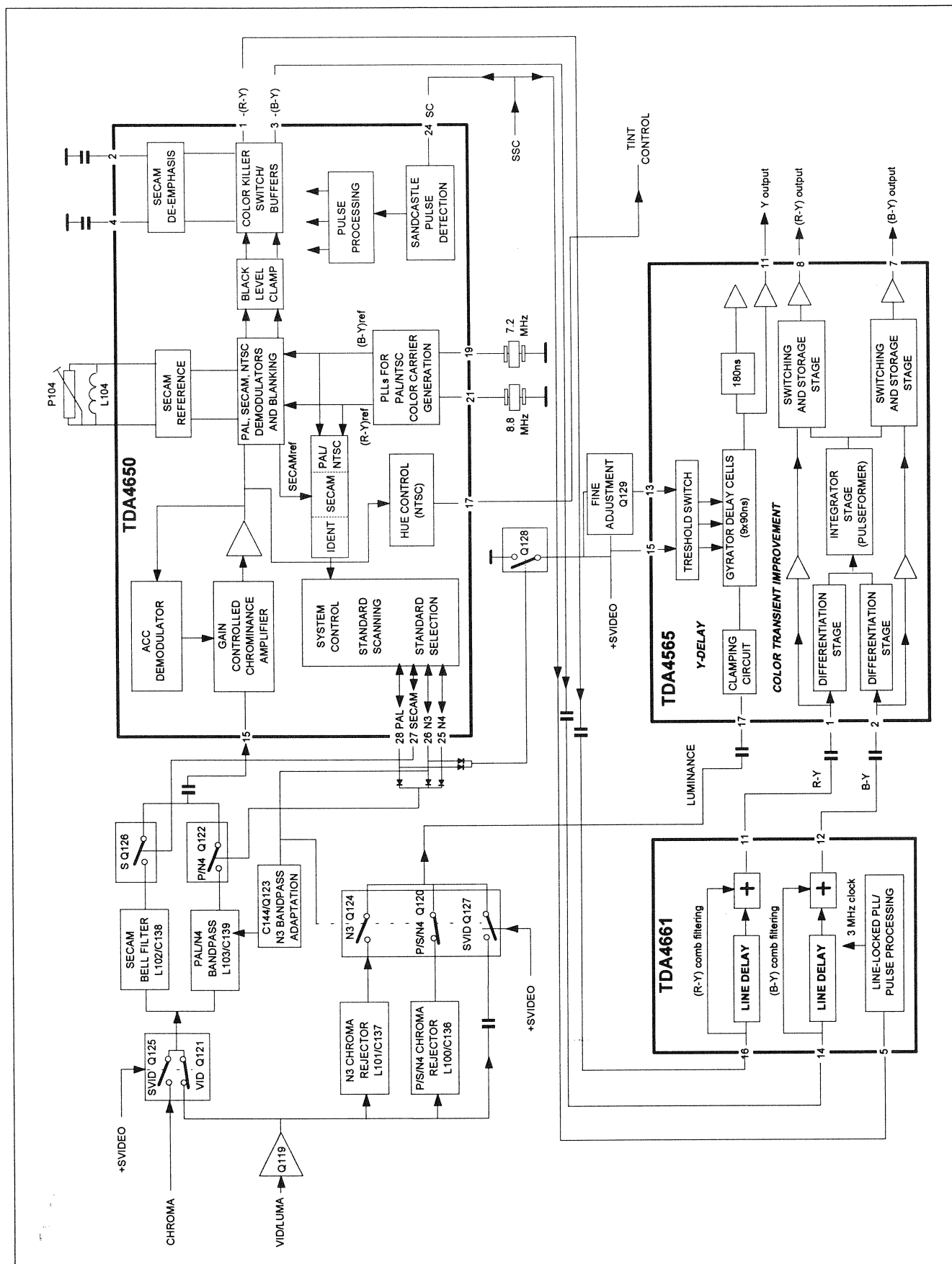
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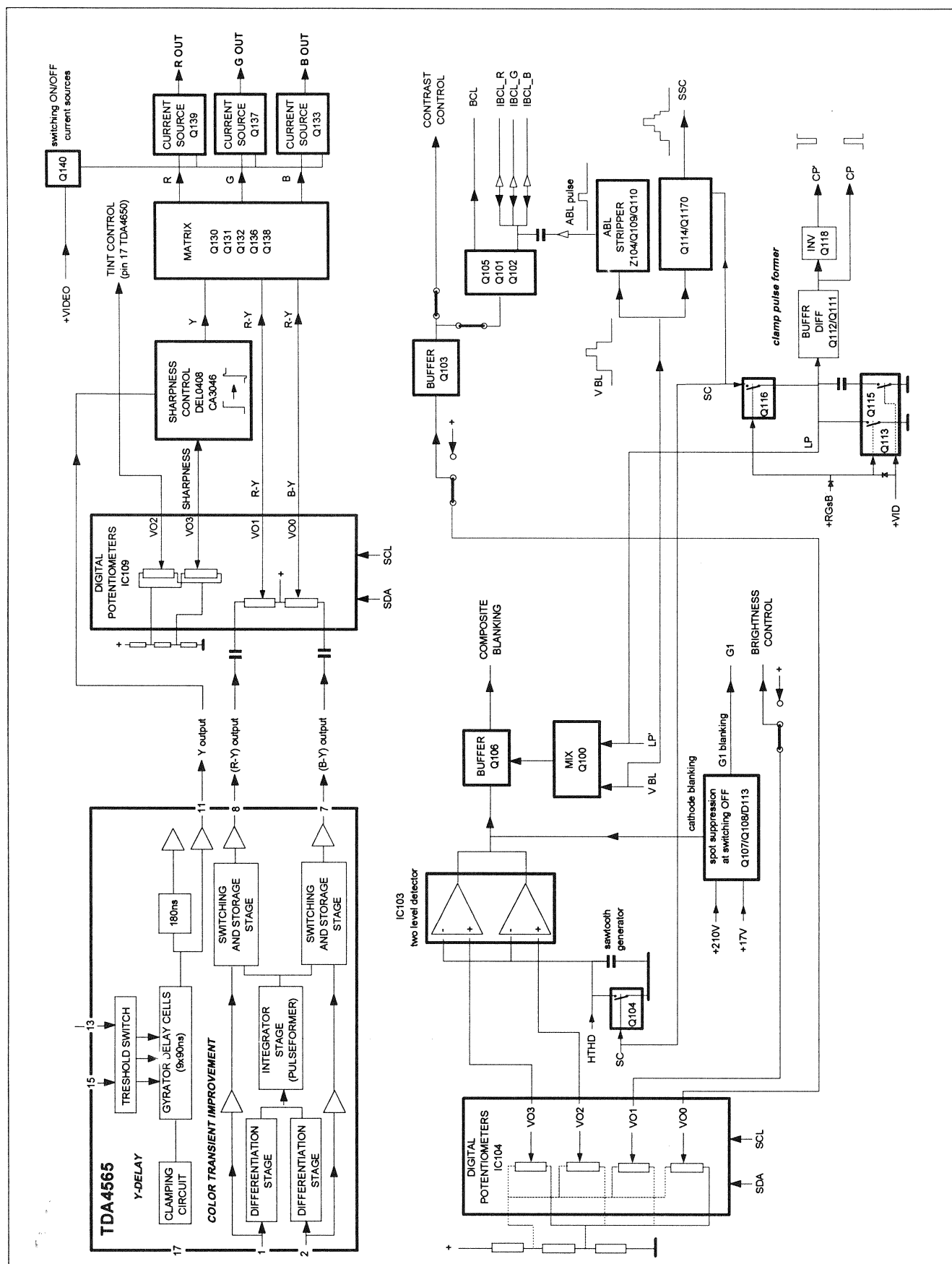


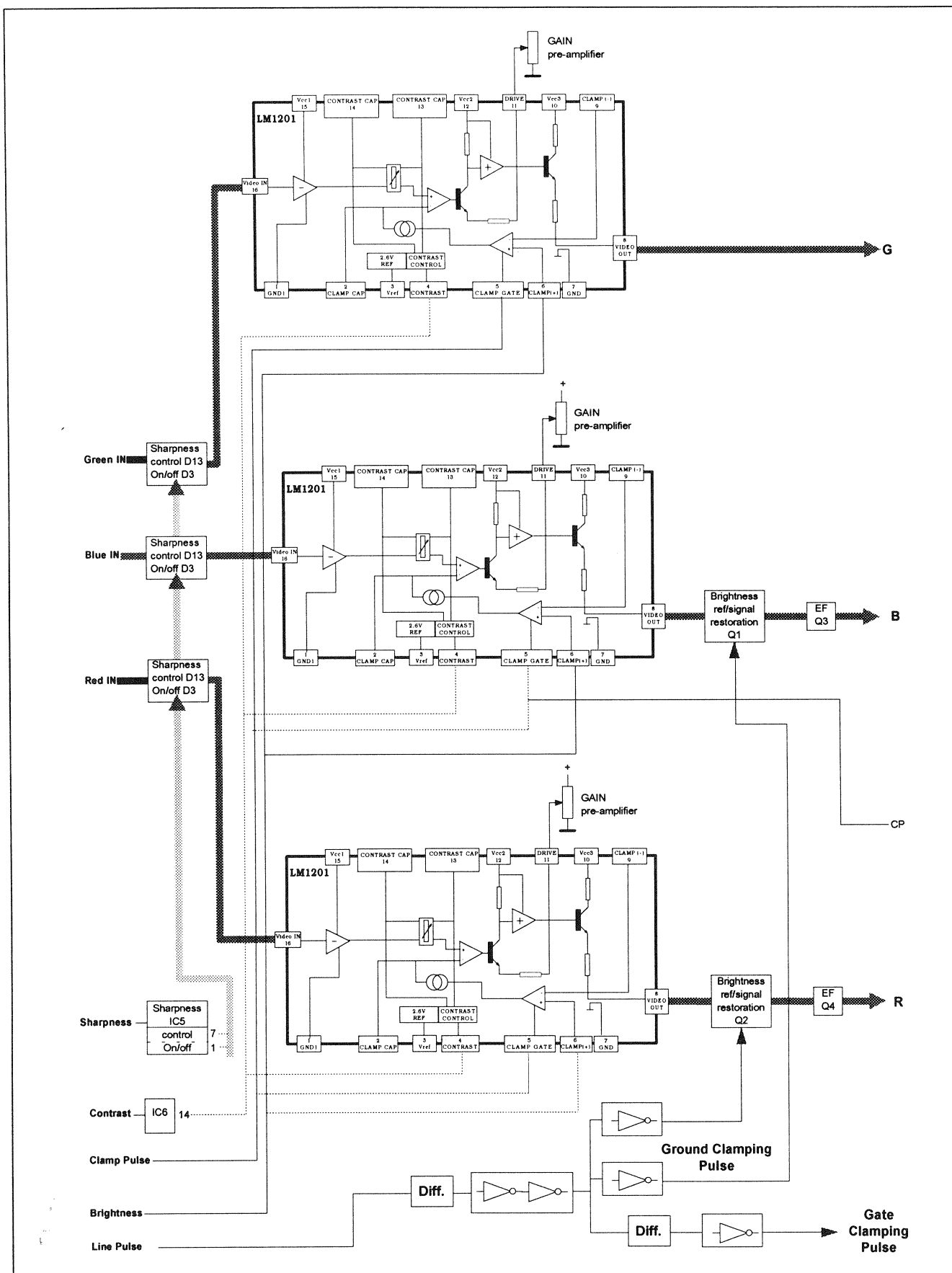


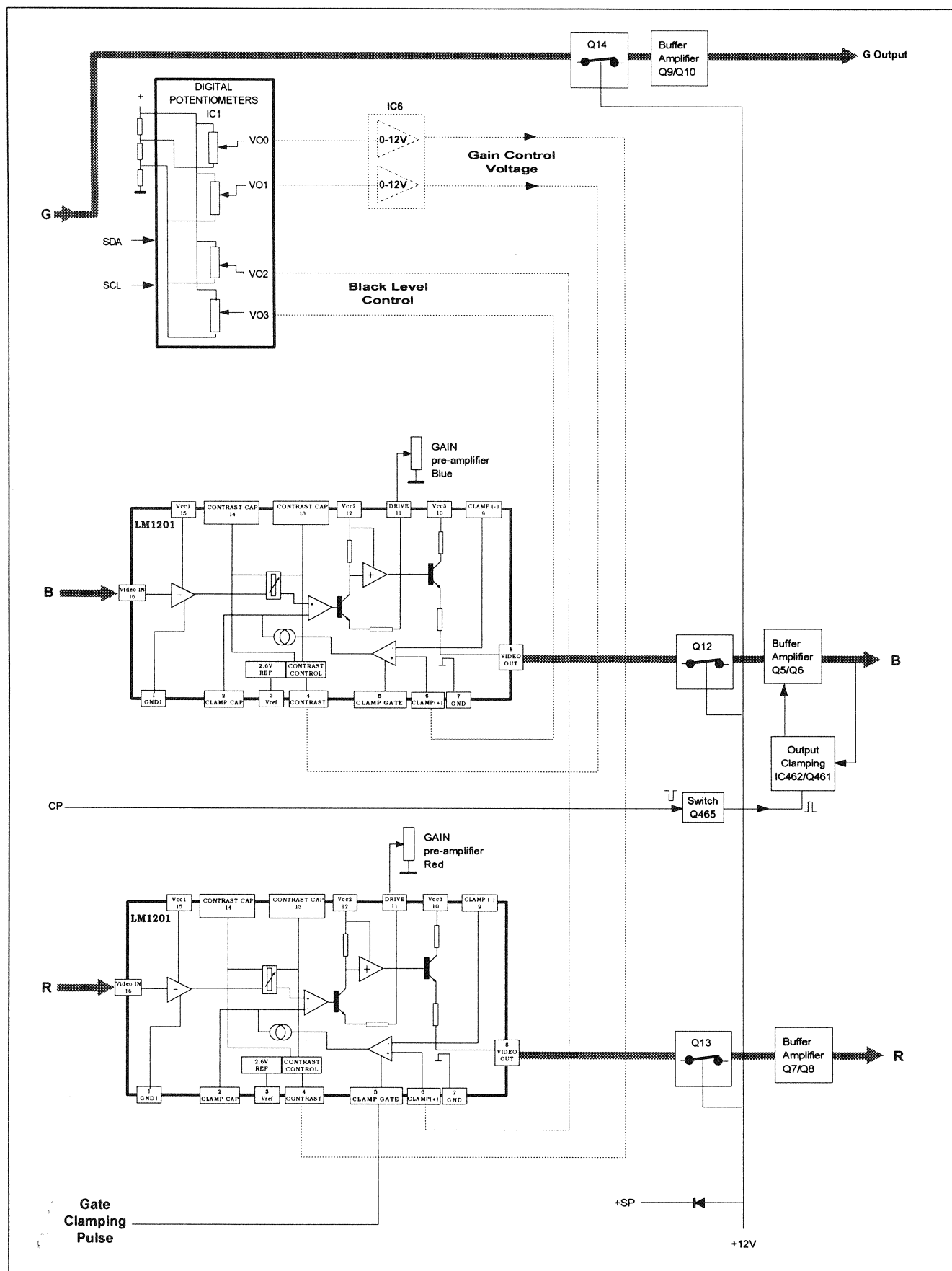
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Date 06-02-1995	Drawn JVDY	Checked CHT	
<u>BARCO PROJECTION SYSTEMS</u>			











ADJUSTMENT PROCEDURE "QUAD DECODER "

The alignment of the "QUAD Decoder+RGB GAIN Control " is restricted to the adjustment of :

- alignment of the QUAD decoder (main board)
- alignment of the GAIN CONTROL board (sub board)

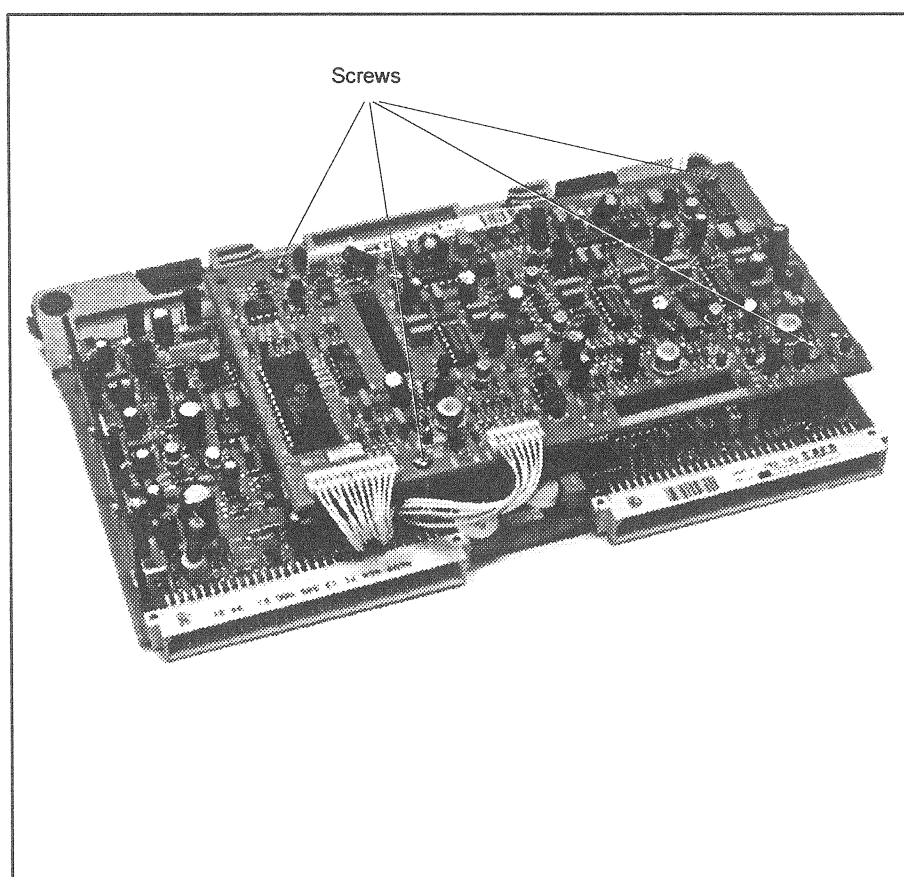
Alignment of the QUAD decoder (main board)

Preparation

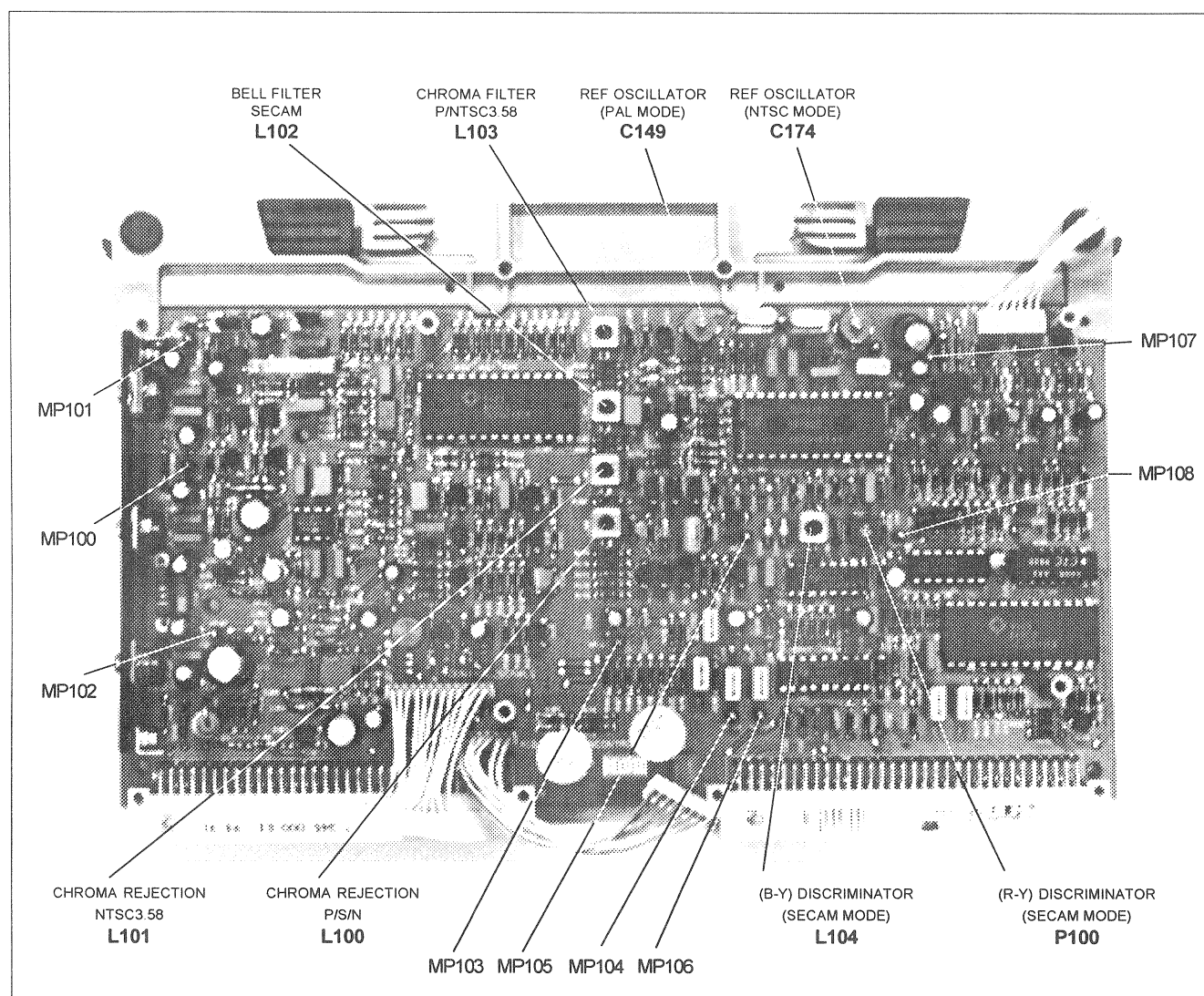
- Turn the projector Off or switch the projector to the stand-by mode.
- Disconnect the module from the RGB-Switch module and put the module in the main frame by means of two extension boards. Reinstall the electrical connections with the RGB-switch module by means of two extension wire cables.
- Connect to the VIDEO input e.g. an electronic colour test video signal (see photo)
- Turn the projector On and switch the projector in the VIDEO MODE. Select source 1.

Access to controls

Remove the four screws holding the RGB driver module to the Decoder module. Separate the two modules in order to have access to the adjustment controls on the decoder module.



Location of controls



A. VIDEO INPUT SIGNAL : PAL COLOUR TEST IMAGE

1. REFERENCE OSCILLATOR (C149)

- if there is no colour, adjust trimming capacitor C149 until colour is being received.
- short-circuit MP109 (pin 17 of IC105) to ground.
- adjust the trimming capacitor C149 for colour zero beat.
- remove the short-circuit.

2. CHROMA REJECTOR (L100) (photo 1)

- connect an oscilloscope to MP108 (Y signal).
- adjust the core of coil L100 for a minimum of chroma in the video signal.

3. CHROMA FILTER (L103) (photo 2)

- connect the oscilloscope to MP107 (pin15 IC105).
- adjust the core of coil L103 for maximum chroma signal.

B. VIDEO INPUT SIGNAL:
SECAM COLOUR TEST IMAGE

4. BELL FILTER (L102) (photo 3)

- connect an oscilloscope to MP107 (pin15 IC105).
- adjust L102 for a flat amplitude of the signal during two successive lines.

5. SECAM REFERENCE CIRCUIT (L104-P100) (photo 4)

- connect oscilloscope to MP104 (pin 2 of IC100).
- adjust L104 so that the level of the (B-Y) signal without colour information is the same as the level during blanking.
- connect oscilloscope to MP106 (pin 1 of IC100).
- adjust P100 so that the level of the (R-Y) signal without colour information is the same as the level during blanking.
- If necessary the level in (B-Y) channel has to readjust to zero with the coil.

C. VIDEO INPUT SIGNAL :
NTSC 3.58 TEST IMAGE

6. REFERENCE OSCILLATOR (C174)

- If there is no colour, adjust trimming capacitor C174 until colour is being received.
- short-circuit MP109 (pin 17 of IC105) to ground.
- adjust trimming capacitor C174 for a colour zero beat.
- remove the short-circuit.

10. CHROMA REJECTION (L101)

- connect an oscilloscope to MP108 (Y signal).
- adjust the core of coil L101 for a minimum of chroma in the video signal.

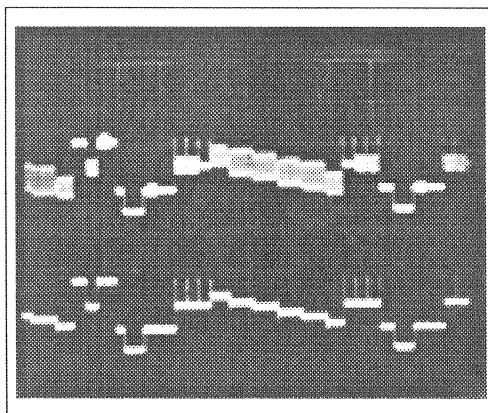
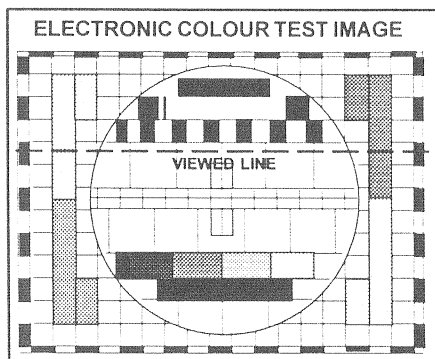


Foto 1
Alignment chroma rejector L100
Upper track: viewed video line
Lower track: Y signal MP108

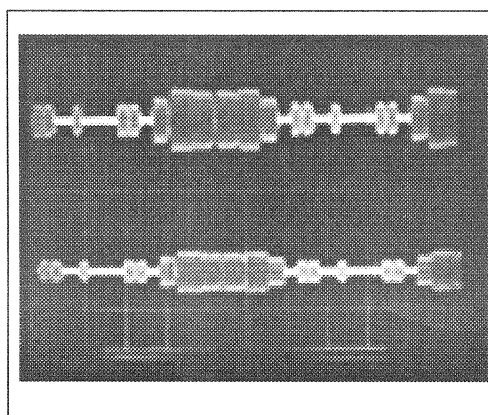


Foto 2
Alignment maximum Chroma L103
Upper track: viewed video line
Lower track: Chroma on MP107

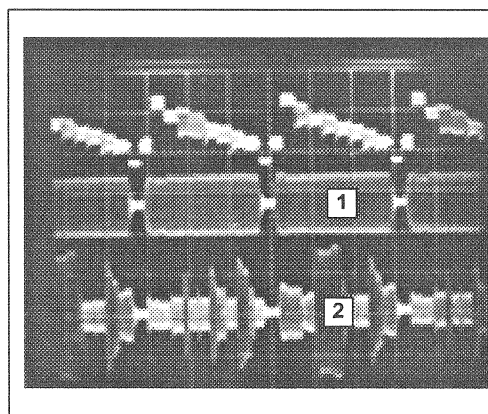


Foto 5
BELL FILTER
Upper track: viewed video line
Lower track:
1. correct setting
2. incorrect setting

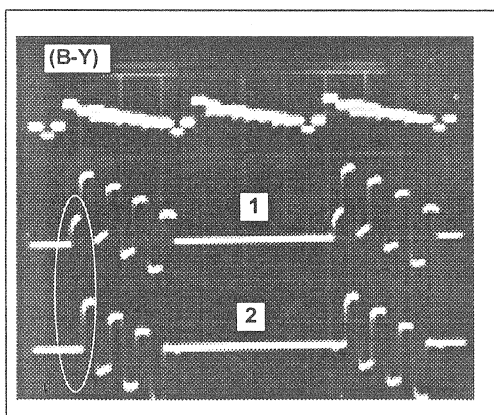
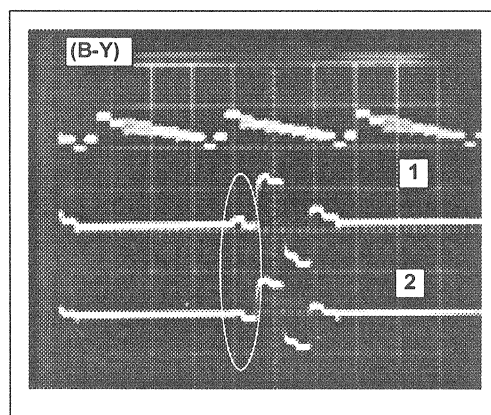


Foto 4
SECAM Ref circuit L104 (B-Y)
Upper track: viewed video line
Lower track:
1: incorrect setting
2: correct setting

Foto 4
SECAM Ref circuit P100 (R-Y)
Upper track: viewed video line
Lower track:
1: incorrect setting
2: correct setting



Alignment of the "RGB Gain control 76 2174S"

Preparation

- Access to the module, refer to chapter 'preparation' decoder module, page 9.
- Connect a voltmeter to pin 6 "CONTRAST" of connector J2 .
Adjust the Contrast on the remote control for max. DC level (10.4V).
- Connect a voltmeter to pin 5 "BRIGHTNESS" of connector J2 .
Adjust the Brightness on the remote control for a DC level of 2.0V.
- Connect a voltmeter to pin 4 "SHARPNESS" of connector J2 .
Adjust the Sharpness on the remote control for min. DC level (1.8V).

Pre-adjustment of the White and Black balance (refer to the Owner's manual)

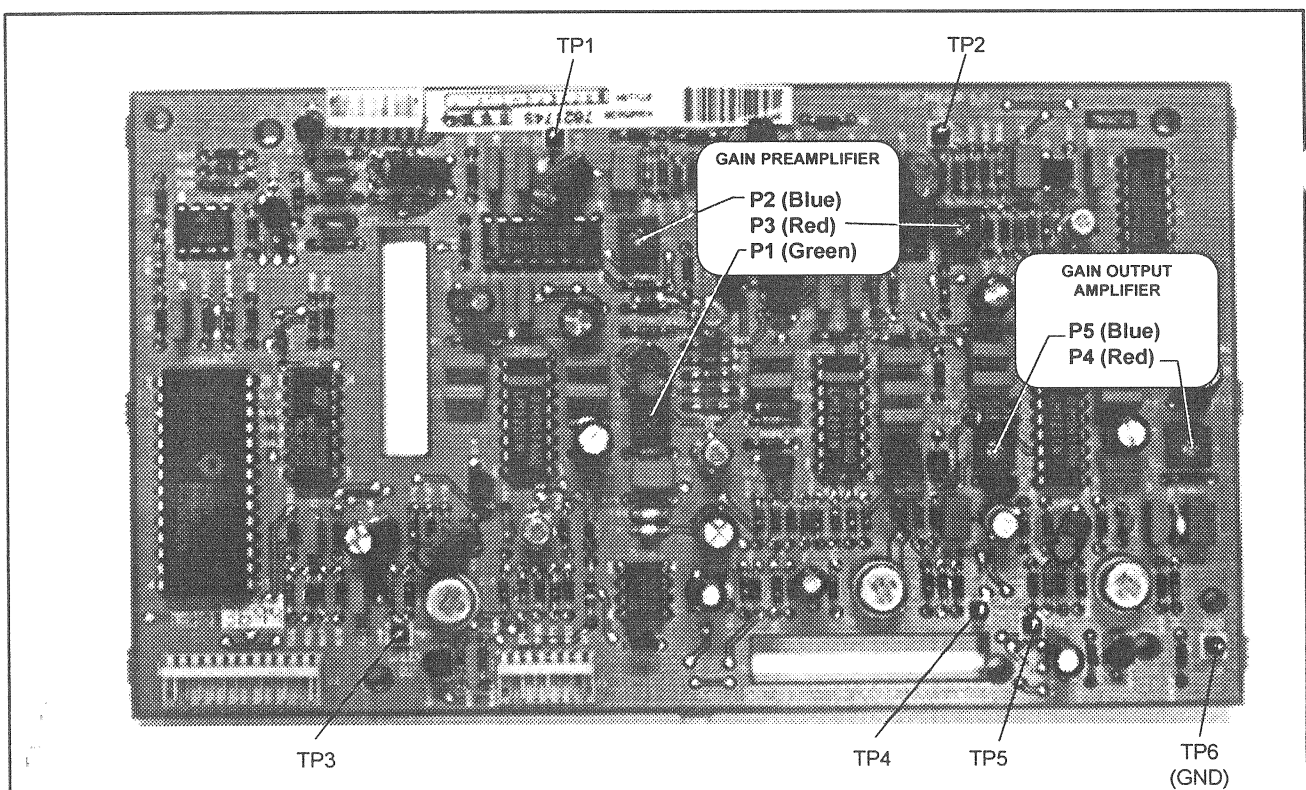
- adjust the white balance as follows: Red gain=34
Blue gain=34
- adjust the black balance as follows: Red cut off=50 (50%)
Blue cut off=50 (50%)

Termination of the outputs

Terminate the outputs, pin 2-4 and 6 of connector J3, with a resistor of 75 Ohm (the termination link must be as short as possible)

- Input signals R, G and B on connector J1 of 0.7Vpp.

Location of controls



Alignment

Gain adjustment of the Pre-Amplifiers

Alignment of P1,P2 and P3

- Connect the oscilloscope successively to the output of Red (TP2), Green (TP3) and Blue (TP1).
- Adjust the potentiometers P1 (G), P2 (B) and P3 (R) "gain pre-amplifier" for an amplitude of the corresponding output signal of 4.0V.

Gain adjustment of the Output-Amplifiers

Alignment of P5 and P4

- Connect the oscilloscope to the **BLUE signal** output (TP4), pin 4 connector J3.
Adjust potentiometer P5 for an amplitude of the Blue signal of 3.3Vpp.
- Connect the oscilloscope to the **RED signal** output (TP5), pin 6 connector J3.
Adjust potentiometer P4 for an amplitude of the Red signal of 2.65Vpp.

Operational verification

Operation control of the spot suppression

Connect pin 3 of the connector J3 to ground. The output voltages on pin 2,4 and 6 of connector J3 have to drop to 0... -0.2Volts DC.

Default settings

Color Temperature 3200°K

White balance (bar scale)

Blue: 10
Red: 50

Output voltage

G (pin 2 J3): 4.0Vpp
B (pin 4 J3): 2.6Vpp
R (pin 6 J3): 3.8Vpp

Color Temperature 6500°K

White balance (bar scale)

Blue: 36
Red: 34

Output voltage

G (pin 2 J3): 4.0Vpp
B (pin 4 J3): 3.4Vpp
R (pin 6 J3): 3.6Vpp

Color Temperature 9300°K

White balance (bar scale)

Blue: 45
Red: 32

Output voltage

G (pin 2 J3): 4.0Vpp
B (pin 4 J3): 3.8Vpp
R (pin 6 J3): 3.6Vpp

(refer to the Owner's manual for the default setting procedure)

Parts listing 76 21745 (main board)

SIT.	ITEM NO.	DESCRIPTION	QUANTITY	SIT.	ITEM NO.	DESCRIPTION	QUANTITY
1041	R1330291	Q ACC ISO MICA TO220	1	C139	R112243	C NP0 MI 120P G100E2	
1040	R1330292	Q ACC ISO BSHG TO220	1	C140	R112774	C CE MI 100N S 63E2	
1063	R133036	SPR L 6 D 6 D 2.4 C	1	C141	R112739	C CE MI 1N K100E2	
1062	R133039	SPR L 8 D 4 D 1.2 C	2	C142	R112739	C CE MI 1N K100E2	
50	R133076	Q ACC ISO WSHR TO39	2	C143	R112774	C CE MI 100N S 63E2	1
	R3484071	CD CT FTMS P 7 110	1	C144	R1122415	C NP0 MI 82P G100E2	
	R3484121	CD CT FTMT P12 50	1	C145	R111678	C EL BRA 10M M 25E2 85	
				C146	R112774	C CE MI 100N S 63E2	
1032	R3620226	SCR D84 M 3 X 8 SI	3	C147	R1140426	C POMERA 100N K250E2 85	1
1030	R3661026	NUT D934 M 3 I	3	C148	R113732	C POMERA 470N K 63E2	
1020	R3674391	RVT POP D3.2 L 7.4 P ASW	2	C149	R117001	C T 7 -35P 160	1
1031	R367502	WSHR D6798 A 3.2 S Z	3	C150	R113730	C POMERA 330N K 63E2	
10	R367699	RVT CHB D2.38L6.35 P A	4	C151	R112739	C CE MI 1N K100E2	
1061	R367699	RVT CHB D2.38L6.35 P A	2	C152	R113730	C POMERA 330N K 63E2	
				C153	R113730	C POMERA 330N K 63E2	
1060	R722276	LOCK PJ49 PCB UN CPL	1	C154	R112366	C N750MI 220P G100E2	
	R762174S	UN RGB PJ49 G801 DVR+GAIN	1	C155	R111476	C EL RA 47M M 25E2 85	
				C156	R112366	C N750MI 220P G100E2	
1000	R802629	HTSNK PJ49 RGB PR AMP	1	C157	R113730	C POMERA 330N K 63E2	
1010	R802692	HTSNK PJ49 FIX HTSNK	2	C158	R112763	C CE MI 10N U 63E2	
1050	R803145	SPR RVT L18 D 5 M3 A	4	C159	R113724	C POMERA 100N K 63E2	
	Z3486071	CD CT FTMT P 7 70	1	C160	R112739	C CE MI 1N K100E2	
				C161	R1137161	C POMERA 22N K100E2	
C100	R111678	C EL BRA 10M M 25E2 85	1	C162	R112763	C CE MI 10N U 63E2	
C101	R111532	C EL RA 22M M 35E2 85		C163	R1122395	C NP0 MI 56P G100E2	
C102	R113724	C POMERA 100N K 63E2		C164	R112739	C CE MI 1N K100E2	
C103	R111532	C EL RA 22M M 35E2 85		C165	R112235	C NP0 MI 27P G100E2	
C104	R111532	C EL RA 22M M 35E2 85		C166	R1137161	C POMERA 22N K100E2	
C105	R113724	C POMERA 100N K 63E2		C167	R1122395	C NP0 MI 56P G100E2	
C106	R113724	C POMERA 100N K 63E2		C168	R113724	C POMERA 100N K 63E2	
C107	R111532	C EL RA 22M M 35E2 85		C169	R112368	C N750MI 330P G100E2	
C108	R113724	C POMERA 100N K 63E2		C170	R113720	C POMERA 47N K 63E2	
C109	R113724	C POMERA 100N K 63E2		C171	R112387	C N152MI 470P G100E2	
C110	R113724	C POMERA 100N K 63E2		C172	R112692	C N750MI 120P G500E2	1
C111	R111532	C EL RA 22M M 35E2 85		C173	R112235	C NP0 MI 27P G100E2	
C112	R111532	C EL RA 22M M 35E2 85		C174	R117001	C T 7 -35P 160	1
C113	R111571	C EL RA 2M2M350E2 85	1	C175	R111476	C EL RA 47M M 25E2 85	
C114	R111478	C EL RA 220M M 25E2 85	1	C176	R112763	C CE MI 10N U 63E2	
C115	R111477	C EL RA 100M Z 25E2 85		C177	R113730	C POMERA 330N K 63E2	
C116	R111568	C EL RA 2M2M250E2 85	1	C178	R113724	C POMERA 100N K 63E2	
C117	R113724	C POMERA 100N K 63E2		C179	R113724	C POMERA 100N K 63E2	
C118	R113728	C POMERA 220N K 63E2		C180	R112387	C N152MI 470P G100E2	
C119	R113724	C POMERA 100N K 63E2		C181	R111531	C EL RA 10M M 35E2 85	1
C120	R112365	C N750MI 180P G100E2		C182	R112763	C CE MI 10N U 63E2	
C121	R113724	C POMERA 100N K 63E2		C183	R112368	C N750MI 330P G100E2	
C122	R115932	C PP RA 4N7J 63E2 85		C184	R111546	C EL RA 1M M 50E2 85	
C123	R113724	C POMERA 100N K 63E2		C185	R111546	C EL RA 1M M 50E2 85	
C124	R112739	C CE MI 1N K100E2		C186	R111478	C EL RA 220M M 25E2 85	1
C125	R111532	C EL RA 22M M 35E2 85		C187	R111678	C EL BRA 10M M 25E2 85	
C126	R115930	C PP RA 3N9J 63E2 85	1	C188	R113724	C POMERA 100N K 63E2	
C127	R113724	C POMERA 100N K 63E2		C189	R113730	C POMERA 330N K 63E2	
C128	R111531	C EL RA 10M M 35E2 85		C190	R111477	C EL RA 100M Z 25E2 85	
C129	R1159562	C PP RA180P H630E2 85	1	C191	R113730	C POMERA 330N K 63E2	
C130	R1137121	C POMERA 10N K250E2 85		C192	R113724	C POMERA 100N K 63E2	
C131	R111531	C EL RA 10M M 35E2 85		C193	R111531	C EL RA 10M M 35E2 85	
C132	R113724	C POMERA 100N K 63E2		C194	R111531	C EL RA 10M M 35E2 85	
C133	R112387	C N152MI 470P G100E2		C195	R112236	C NP0 MI 33P G100E2	
C134	R111531	C EL RA 10M M 35E2 85		C196	R112236	C NP0 MI 33P G100E2	
C135	R112774	C CE MI 100N S 63E2		C197	R111531	C EL RA 10M M 35E2 85	
C136	R1122415	C NP0 MI 82P G100E2		C198	R112236	C NP0 MI 33P G100E2	
C137	R112243	C NP0 MI 120P G100E2		C199	R111531	C EL RA 10M M 35E2 85	
C138	R1159061	C PP RA 390P J100E2 85		C280	R111510	C EL RA 22M M 25E2 85	
				C281	R111510	C EL RA 22M M 25E2 85	
				C283	R1159161	C PP RA 1N J100E2 85	

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D100	R131621	D S 1N4148 075150 DO35		MP18	R313729	J PIN TESTEYE	1
D101	R131621	D S 1N4148 075150 DO35		MP19	R313729	J PIN TESTEYE	1
D102	R131646	D R 1N4007 10201A DO41					
D103	R131621	D S 1N4148 075150 DO35		P100	R107005	R TCE H500E M 0W5 S7 TS	1
D104	R131621	D S 1N4148 075150 DO35					
D105	R131621	D S 1N4148 075150 DO35		PC	R780016	PCS PJ49 800 DEC 7	1
D106	R131621	D S 1N4148 075150 DO35					
D107	R131621	D S 1N4148 075150 DO35		Q100	R131491	Q BSX20 .2369 N SS TO18	1
D108	R131646	D R 1N4007 10201A DO41		Q101	R1314182	Q BC559C P SS TO92	
D109	R131621	D S 1N4148 075150 DO35		Q102	R131411	Q BC549C N SS TO92	
D110	R131621	D S 1N4148 075150 DO35		Q103	R131411	Q BC549C N SS TO92	
D111	R131621	D S 1N4148 075150 DO35		Q104	R131491	Q BSX20 .2369 N SS TO18	1
D112	R131621	D S 1N4148 075150 DO35		Q105	R131411	Q BC549C N SS TO92	
D113	R131948	D R BYD33D 2001A3 SOD81	1	Q106	R1314182	Q BC559C P SS TO92	
D114	R131621	D S 1N4148 075150 DO35		Q107	R131411	Q BC549C N SS TO92	
D115	R1316361	D Y BAT85 030200 DO34		Q108	R131471	Q BF458 N P TO126	1
D116	R1316361	D Y BAT85 030200 DO34		Q109	R131411	Q BC549C N SS TO92	
D117	R131621	D S 1N4148 075150 DO35		Q110	R1314182	Q BC559C P SS TO92	
D118	R131621	D S 1N4148 075150 DO35		Q111	R1314182	Q BC559C P SS TO92	
D119	R131621	D S 1N4148 075150 DO35		Q112	R131411	Q BC549C N SS TO92	
D120	R1316361	D Y BAT85 030200 DO34		Q113	R131411	Q BC549C N SS TO92	
D121	R131621	D S 1N4148 075150 DO35		Q114	R131411	Q BC549C N SS TO92	
D122	R131621	D S 1N4148 075150 DO35		Q115	R131411	Q BC549C N SS TO92	
D123	R131621	D S 1N4148 075150 DO35		Q116	R131411	Q BC549C N SS TO92	
D124	R131621	D S 1N4148 075150 DO35		Q117	R131411	Q BC549C N SS TO92	
D125	R131621	D S 1N4148 075150 DO35		Q118	R131411	Q BC549C N SS TO92	
D126	R131621	D S 1N4148 075150 DO35		Q119	R131411	Q BC549C N SS TO92	
D127	R131621	D S 1N4148 075150 DO35		Q120	R131411	Q BC549C N SS TO92	
D128	R131621	D S 1N4148 075150 DO35		Q121	R131411	Q BC549C N SS TO92	
D129	R131733	D STB 2V 0W33 DO35		Q122	R131411	Q BC549C N SS TO92	
D280	R1316361	D Y BAT85 030200 DO34		Q123	R131411	Q BC549C N SS TO92	
D281	R1316361	D Y BAT85 030200 DO34		Q124	R131411	Q BC549C N SS TO92	
D283	R1316361	D Y BAT85 030200 DO34		Q125	R131411	Q BC549C N SS TO92	
				Q126	R131411	Q BC549C N SS TO92	
DL10	R306528	DL 400NS 200E DIP14	1	Q127	R131411	Q BC549C N SS TO92	
				Q128	R131411	Q BC549C N SS TO92	
I100	R134001	U 7805 TO220 P	1	Q129	R131411	Q BC549C N SS TO92	
I101	R134002	U 7812 TO220 P	1	Q130	R131411	Q BC549C N SS TO92	
I102	R134016	U 7912 TO220 P	1	Q131	R131411	Q BC549C N SS TO92	
I103	R134114	U 393 LM DIP8 P	1	Q132	R131411	Q BC549C N SS TO92	
I104	R132833	U 76013 SC DIP28 P	1	Q133	R1314182	Q BC559C P SS TO92	
I105	R132828	U 4650 TDA DIP28 P	1	Q134	R1314182	Q BC559C P SS TO92	
I106	R132773	U 4560/65 TDA DIP18 P	1	Q135	R1314182	Q BC559C P SS TO92	
I107	R1328291	U 4661 TDA DIP16 P	1	Q136	R131411	Q BC549C N SS TO92	
I108	R132134	U 331 TBA DIP14 P	1	Q137	R1314182	Q BC559C P SS TO92	
I109	R132833	U 76013 SC DIP28 P	1	Q138	R131411	Q BC549C N SS TO92	
				Q139	R1314182	Q BC559C P SS TO92	1
J 1	R313531	J EUR2C\$MBS P64 E1C3S 1,6	1	Q140	R131411	Q BC549C N SS TO92	
J 2	R313531	J EUR2C\$MBS P64 E1C3S 1,6	1	R100	R101563	R MF H180K F 0W4 E3	
J 4	R313929	J CT H MBT P 9 M2SN	1	R101	R101556	R MF H 47K F 0W4 E3	1
				R102	R103248	R MO H 10K J 1W5	1
L100	R3060281	CH RA ES 15 UH S7 T	1	R103	R101542	R MF H 3K3 F 0W4 E3	
L101	R3060281	CH RA ES 15 UH S7 T	1	R104	R101564	R MF H220K F 0W4 E3	
L102	R3060121	CH RA ES 3.3 UH S7 T	1	R105	R101524	R MF H100E F 0W4 E3	
L103	R3060241	CH RA ES 10 UH S7 T	1	R106	R101536	R MF H 1K F 0W4 E3	
L104	R3060241	CH RA ES 10 UH S7 T	1	R107	R101548	R MF H 10K F 0W4 E3	
L105	R3061322	CH AX NS 10 UH	1	R108	R101545	R MF H 5K6 F 0W4 E3	
L106	R306052	CH RA NS 150 UH	1	R109	R101543	R MF H 3K9 F 0W4 E3	
L107	R3061322	CH AX NS 10 UH	1	R110	R101560	R MF H100K F 0W4 E3	
				R111	R101558	R MF H 68K F 0W4 E3	
MP10	R313729	J PIN TESTEYE	1	R112	R101557	R MF H 56K F 0W4 E3	
MP11	R313729	J PIN TESTEYE	1	R113	R101536	R MF H 1K F 0W4 E3	
MP12	R313729	J PIN TESTEYE	1	R114	R101540	R MF H 2K2 F 0W4 E3	
MP13	R313729	J PIN TESTEYE	1	R115	R101534	R MF H680E F 0W4 E3	
MP14	R313729	J PIN TESTEYE	1	R116	R101559	R MF H 82K F 0W4 E3	
MP15	R313729	J PIN TESTEYE	1	R117	R101539	R MF H 1K8 F 0W4 E3	
MP16	R313729	J PIN TESTEYE	1	R118	R101512	R MF H 10E F 0W4 E3	
MP17	R313729	J PIN TESTEYE	1	R119	R101536	R MF H 1K F 0W4 E3	

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R120	R101540	R MF H 2K2 F 0W4 E3		R188	R101560	R MF H100K F 0W4 E3
R121	R101548	R MF H 10K F 0W4 E3		R189	R101560	R MF H100K F 0W4 E3
R122	R101524	R MF H100E F 0W4 E3		R190	R101548	R MF H 10K F 0W4 E3
R123	R101540	R MF H 2K2 F 0W4 E3		R191	R101534	R MF H680E F 0W4 E3
R124	R101548	R MF H 10K F 0W4 E3		R192	R101540	R MF H 2K2 F 0W4 E3
R125	R101553	R MF H 27K F 0W4 E3		R193	R101534	R MF H680E F 0W4 E3
R126	R101542	R MF H 3K3 F 0W4 E3		R194	R101550	R MF H 15K F 0W4 E3
R127	R1014605	R CF H100K J 1W5	1	R195	R101534	R MF H680E F 0W4 E3
R128	R101557	R MF H 56K F 0W4 E3		R196	R101548	R MF H 10K F 0W4 E3
R129	R101544	R MF H 4K7 F 0W4 E3		R197	R101536	R MF H 1K F 0W4 E3
R130	R101536	R MF H 1K F 0W4 E3		R198	R101550	R MF H 15K F 0W4 E3
R131	R101548	R MF H 10K F 0W4 E3		R199	R101550	R MF H 15K F 0W4 E3
R132	R101536	R MF H 1K F 0W4 E3		R200	R101548	R MF H 10K F 0W4 E3
R133	R1015377	R MF H 24K3 F 0W4 E3	1	R201	R101550	R MF H 15K F 0W4 E3
R134	R1015451	R MF H 5K1 F 0W4 E3	1	R202	R101540	R MF H 2K2 F 0W4 E3
R135	R101540	R MF H 2K2 F 0W4 E3		R203	R101550	R MF H 15K F 0W4 E3
R136	R101554	R MF H 33K F 0W4 E3		R204	R101548	R MF H 10K F 0W4 E3
R137	R101542	R MF H 3K3 F 0W4 E3		R205	R101530	R MF H330E F 0W4 E3
R138	R101536	R MF H 1K F 0W4 E3		R206	R101548	R MF H 10K F 0W4 E3
R139	R101538	R MF H 1K5 F 0W4 E3		R207	R101548	R MF H 10K F 0W4 E3
R140	R101536	R MF H 1K F 0W4 E3		R208	R101550	R MF H 15K F 0W4 E3
R141	R101536	R MF H 1K F 0W4 E3		R209	R101547	R MF H 8K2 F 0W4 E3
R142	R101546	R MF H 6K8 F 0W4 E3		R210	R101544	R MF H 4K7 F 0W4 E3
R143	R101548	R MF H 10K F 0W4 E3		R211	R101537	R MF H 1K2 F 0W4 E3
R144	R101536	R MF H 1K F 0W4 E3		R212	R101530	R MF H330E F 0W4 E3
R145	R101539	R MF H 1K8 F 0W4 E3		R213	R101542	R MF H 3K3 F 0W4 E3
R146	R101539	R MF H 1K8 F 0W4 E3		R214	R101548	R MF H 10K F 0W4 E3
R147	R101536	R MF H 1K F 0W4 E3		R215	R101530	R MF H330E F 0W4 E3
R148	R101538	R MF H 1K5 F 0W4 E3		R216	R101548	R MF H 10K F 0W4 E3
R149	R101524	R MF H100E F 0W4 E3		R217	R101528	R MF H220E F 0W4 E3
R150	R101524	R MF H100E F 0W4 E3		R218	R101528	R MF H220E F 0W4 E3
R151	R101547	R MF H 8K2 F 0W4 E3		R219	R101534	R MF H680E F 0W4 E3
R152	R101536	R MF H 1K F 0W4 E3		R220	R101534	R MF H680E F 0W4 E3
R153	R101560	R MF H100K F 0W4 E3		R221	R101532	R MF H470E F 0W4 E3
R154	R101541	R MF H 2K7 F 0W4 E3		R222	R101548	R MF H 10K F 0W4 E3
R155	R101552	R MF H 22K F 0W4 E3		R223	R101532	R MF H470E F 0W4 E3
R156	R101544	R MF H 4K7 F 0W4 E3		R224	R101534	R MF H680E F 0W4 E3
R157	R101546	R MF H 6K8 F 0W4 E3		R225	R101524	R MF H100E F 0W4 E3
R158	R101548	R MF H 10K F 0W4 E3		R226	R101554	R MF H 33K F 0W4 E3
R159	R101538	R MF H 1K5 F 0W4 E3		R227	R101520	R MF H 47E F 0W4 E3
R160	R101536	R MF H 1K F 0W4 E3		R228	R101534	R MF H680E F 0W4 E3
R161	R101535	R MF H820E F 0W4 E3		R229	R101530	R MF H330E F 0W4 E3
R162	R101548	R MF H 10K F 0W4 E3		R230	R101547	R MF H 8K2 F 0W4 E3
R163	R1015 8	R MF H 10K F 0W4 E3		R231	R101536	R MF H 1K F 0W4 E3
R164	R101542	R MF H 3K3 F 0W4 E3		R232	R101548	R MF H 10K F 0W4 E3
R165	R1015591	R MF H 75K F 0W4 E3		R233	R101554	R MF H 33K F 0W4 E3
R166	R101540	R MF H 2K2 F 0W4 E3		R234	R101560	R MF H100K F 0W4 E3
R167	R101536	R MF H 1K F 0W4 E3		R235	R101559	R MF H 82K F 0W4 E3
R168	R101544	R MF H 4K7 F 0W4 E3		R236	R101537	R MF H 1K2 F 0W4 E3
R169	R101535	R MF H820E F 0W4 E3		R237	R101536	R MF H 1K F 0W4 E3
R170	R101535	R MF H820E F 0W4 E3		R238	R101543	R MF H 3K9 F 0W4 E3
R171	R101544	R MF H 4K7 F 0W4 E3		R239	R101524	R MF H100E F 0W4 E3
R172	R101540	R MF H 2K2 F 0W4 E3		R240	R101520	R MF H 47E F 0W4 E3
R173	R101524	R MF H100E F 0W4 E3		R241	R101548	R MF H 10K F 0W4 E3
R174	R101524	R MF H100E F 0W4 E3		R242	R101520	R MF H 47E F 0W4 E3
R175	R101512	R MF H 10E F 0W4 E3		R243	R101524	R MF H100E F 0W4 E3
R176	R101512	R MF H 10E F 0W4 E3		R244	R101550	R MF H 15K F 0W4 E3
R177	R101556	R MF H 47K F 0W4 E3		R245	R101544	R MF H 4K7 F 0W4 E3
R178	R101556	R MF H 47K F 0W4 E3		R246	R101552	R MF H 22K F 0W4 E3
R179	R101522	R MF H 68E F 0W4 E3		R247	R101561	R MF H120K F 0W4 E3
R180	R101512	R MF H 10E F 0W4 E3		R248	R101560	R MF H100K F 0W4 E3
R181	R101522	R MF H 68E F 0W4 E3		R249	R101548	R MF H 10K F 0W4 E3
R182	R101512	R MF H 10E F 0W4 E3		R250	R101520	R MF H 47E F 0W4 E3
R183	R101540	R MF H 2K2 F 0W4 E3		R251	R101548	R MF H 10K F 0W4 E3
R184	R101538	R MF H 1K5 F 0W4 E3		R252	R101540	R MF H 2K2 F 0W4 E3
R185	R101535	R MF H820E F 0W4 E3		R253	R101538	R MF H 1K5 F 0W4 E3
R186	R101525	R MF H120E F 0W4 E3		R254	R101552	R MF H 22K F 0W4 E3
R187	R101527	R MF H180E F 0W4 E3		R255	R101546	R MF H 6K8 F 0W4 E3

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R256	R101560	R MF H100K F 0W4 E3		W101	R348102	WU JUMP 0,6 7,5	1
R257	R101550	R MF H 15K F 0W4 E3					
R258	R1015281	R MF H200E F 0W4 E3	1	XT10	R306816	X 8.867238 MHZ HC49 S20	1
R259	R101545	R MF H 5K6 F 0W4 E3		XT11	R306849	X 7.159090 MHZ HC49 S20	1
R260	R101548	R MF H 10K F 0W4 E3					
R261	R101548	R MF H 10K F 0W4 E3		Z100	R131721	D ZEN 13V 0W5 C DO35	
R262	R101520	R MF H 47E F 0W4 E3		Z101	R131749	D ZEN 18V 0W5 C DO35	
R263	R101535	R MF H820E F 0W4 E3		Z102	R131771	D ZEN 150V 3W25 C SOD57	1
R264	R101544	R MF H 4K7 F 0W4 E3		Z103	R131788	D ZEN 15V 0W5 C DO35	
R265	R101548	R MF H 10K F 0W4 E3		Z104	R131730	D ZEN 20V 0W5 C DO35	
R266	R101552	R MF H 22K F 0W4 E3		Z105	R131716	D ZEN 5V1 0W5 C DO35	
R267	R101538	R MF H 1K5 F 0W4 E3		Z106	R131716	D ZEN 5V1 0W5 C DO35	
R268	R1015281	R MF H200E F 0W4 E3	1	Z107	R131756	D ZEN 7V5 0W5 C DO35	
R269	R101560	R MF H100K F 0W4 E3		Z108	R131716	D ZEN 5V1 0W5 C DO35	
R270	R101540	R MF H 2K2 F 0W4 E3		Z109	R131716	D ZEN 5V1 0W5 C DO35	
R280	R101548	R MF H 10K F 0W4 E3		Z110	R131754	D ZEN 3V3 0W5 C DO35	
R281	R101544	R MF H 4K7 F 0W4 E3		Z111	R131757	D ZEN 3V9 0W5 C DO35	
R282	R101554	R MF H 33K F 0W4 E3		Z112	R131716	D ZEN 5V1 0W5 C DO35	
				Z113	R131716	D ZEN 5V1 0W5 C DO35	
S100	R313286	J MO1 C MBT P 3 R1SN 7,5	1	Z280	R131757	D ZEN 3V9 0W5 C DO35	
S101	R313286	J MO1 C MBT P 3 R1SN 7,5	1				
SR10	R1011009	R CFFH 1E J 0W25	1				
SR11	R1012009	R CFFH 1E J 0W5	1				
SR12	R1011009	R CFFH 1E J 0W25	1				
SR13	R1011049	R CFFH 2E2 J 0W25	1				
SR14	R1011049	R CFFH 2E2 J 0W25	1				
SR15	R1011049	R CFFH 2E2 J 0W25	1				
SR16	R1011049	R CFFH 2E2 J 0W25	1				
SR17	R1011049	R CFFH 2E2 J 0W25	1				
SR18	R1011049	R CFFH 2E2 J 0W25	1				
W100	R348102	WU JUMP 0,6 7,5	1				

Parts listing 76 2174S (sub board)

SIT.	ITEM NO.	DESCRIPTION	QUANTITY	SIT.	ITEM NO.	DESCRIPTION	QUANTITY
20	R803145	SPR RVT L18 D 5 M3 A	4	C 66	R112205	C P100MI 1P5C100E2	1
30	R133076	Q ACC ISO WSHR TO39	3	C 67	R112231	C NP0 MI 12P G100E2	1
C 1	R113724	C POMERA 100N K 63E2		C 68	R112227	C NP0 MI 5P6C100E2	1
C 2	R113724	C POMERA 100N K 63E2		C 69	P210122	C# X7R MU 100N K 50 1206	1
C 3	R113724	C POMERA 100N K 63E2		C 70	P210122	C# X7R MU 100N K 50 1206	1
C 4	R113724	C POMERA 100N K 63E2		C 71	P210122	C# X7R MU 100N K 50 1206	1
C 5	R111466	C EL RA 100M Z 16E2 85		C 74	R1159181	C PP RA 1N2J100E2 85	
C 6	R112741	C CE MI 1N5K100E2		C 75	R1159181	C PP RA 1N2J100E2 85	
C 7	R111466	C EL RA 100M Z 16E2 85		C 76	R1159181	C PP RA 1N2J100E2 85	
C 8	R113724	C POMERA 100N K 63E2		C 77	R1159101	C PP RA 560P J100E2 85	1
C 9	R113724	C POMERA 100N K 63E2		C 78	R1159101	C PP RA 560P J100E2 85	1
C 10	R113724	C POMERA 100N K 63E2		C459	R111531	C EL RA 10M M 35E2 85	
C 11	R113724	C POMERA 100N K 63E2		C460	R112741	C CE MI 1N5K100E2	1
C 12	R112741	C CE MI 1N5K100E2		C470	R111548	C EL RA 2M2M 50E2 85	1
C 13	R111466	C EL RA 100M Z 16E2 85		D 1	R131623	D S BA244 020100 DO35	
C 14	R111466	C EL RA 100M Z 16E2 85		D 2	R131623	D S BA244 020100 DO35	
C 15	R113724	C POMERA 100N K 63E2		D 3	R131623	D S BA244 020100 DO35	
C 16	R113724	C POMERA 100N K 63E2		D 4	R131621	D S 1N4148 075150 DO35	
C 17	R113724	C POMERA 100N K 63E2		D 5	R131621	D S 1N4148 075150 DO35	
C 18	R113724	C POMERA 100N K 63E2		D 6	R131635	D Y 5082-2800	
C 19	R112741	C CE MI 1N5K100E2		D 7	R131621	D S 1N4148 075150 DO35	
C 20	R111466	C EL RA 100M Z 16E2 85		D 8	R131621	D S 1N4148 075150 DO35	
C 21	R111466	C EL RA 100M Z 16E2 85		D 9	R131621	D S 1N4148 075150 DO35	
C 22	R111548	C EL RA 2M2M 50E2 85		D 10	R131621	D S 1N4148 075150 DO35	
C 23	R111548	C EL RA 2M2M 50E2 85	1	D 11	R131826	D V BB112 008 SOD69	1
C 24	R111548	C EL RA 2M2M 50E2 85		D 12	R131826	D V BB112 008 SOD69	1
C 25	R112366	C N750MI 220P G100E2	1	D 13	R131826	D V BB112 008 SOD69	1
C 26	R112366	C N750MI 220P G100E2		D 14	R1319481	D R BYD33J 6001A3 SOD81	1
C 27	R112366	C N750MI 220P G100E2		D 20	R131621	D S 1N4148 075150 DO35	
C 28	R113724	C POMERA 100N K 63E2		D 21	R131621	D S 1N4148 075150 DO35	
C 29	R113724	C POMERA 100N K 63E2		FB 1	R302108	CORE TUBE 3.5 /1.3 X 3	1
C 30	R113724	C POMERA 100N K 63E2		FB 2	R302108	CORE TUBE 3.5 /1.3 X 3	1
C 31	R112233	C NP0 MI 18P G100E2		I 1	R132833	U 76013 SC DIP28 P	1
C 32	R112237	C NP0 MI 39P G100E2	1	I 2	R132851	U 1201 LM DIP16 P	1
C 33	R111678	C EL BRA 10M M 25E2 85	1	I 3	R132851	U 1201 LM DIP16 P	1
C 34	R112237	C NP0 MI 39P G100E2		I 4	R132851	U 1201 LM DIP16 P	1
C 36	R111678	C EL BRA 10M M 25E2 85	1	I 5	R134124	U 082 TL DIP8 P	1
C 37	R113724	C POMERA 100N K 63E2		I 6	R134113	U 084 TL DIP14 P	1
C 38	R113724	C POMERA 100N K 63E2		I 7	R137536	U 74HCT04 DIP14 P	1
C 39	R113724	C POMERA 100N K 63E2		I 8	R132851	U 1201 LM DIP16 P	1
C 40	R113724	C POMERA 100N K 63E2		I 9	R132851	U 1201 LM DIP16 P	1
C 41	R112741	C CE MI 1N5K100E2		I462	R134145	U 3080 CA DIP8 P	1
C 42	R111466	C EL RA 100M Z 16E2 85		J 1	R313947	J CT H MBS P 7 M2SN	1
C 43	R111466	C EL RA 100M Z 16E2 85		J 2	R313952	J CT H MBS P12 M2SN	1
C 44	R113724	C POMERA 100N K 63E2		J 3	R313947	J CT H MBS P 7 M2SN	1
C 45	R112774	C CE MI 100N S 63E2	1	P 1	R107004	R TCE H200E M 0W5 S7 TS	1
C 46	R111510	C EL RA 22M M 25E2 85		P 2	R107004	R TCE H200E M 0W5 S7 TS	1
C 47	R113724	C POMERA 100N K 63E2		P 3	R107004	R TCE H200E M 0W5 S7 TS	1
C 48	R113724	C POMERA 100N K 63E2		P 4	R107004	R TCE H200E M 0W5 S7 TS	1
C 49	R113724	C POMERA 100N K 63E2		P 5	R107004	R TCE H200E M 0W5 S7 TS	1
C 50	R113724	C POMERA 100N K 63E2		PC	R780237	PCD PJ49 G801 RGB DVR	1
C 51	R111477	C EL RA 100M Z 25E2 85		Q 1	R132910	Q BS170 FN SS TO92	1
C 52	R113724	C POMERA 100N K 63E2		Q 2	R132910	Q BS170 FN SS TO92	1
C 53	R111466	C EL RA 100M Z 16E2 85	1	Q 3	R132954	Q BFY90 N SS TO72	1
C 54	R113724	C POMERA 100N K 63E2		Q 4	R132954	Q BFY90 N SS TO72	1
C 55	R112741	C CE MI 1N5K100E2		Q 5	R132954	Q BFY90 N SS TO72	1
C 56	R111510	C EL RA 22M M 25E2 85		Q 6	R132911	Q 2N5583 P SS TO39	1
C 57	R1159081	C PP RA 470P J100E2 85		Q 7	R132954	Q BFY90 N SS TO72	1
C 58	R1159161	C PP RA 1N J100E2 85					
C 59	R112741	C CE MI 1N5K100E2	1				
C 60	R111466	C EL RA 100M Z 16E2 85					
C 61	R111510	C EL RA 22M M 25E2 85					
C 63	R113724	C POMERA 100N K 63E2					

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Q 8	R132911	Q 2N5583	P SS TO39	1	R 62	R1011473	R MF H 9K1 G 0W25	1
Q 9	R132954	Q BFY90	N SS TO72	1	R 63	R101531	R MF H390E F 0W4 E3	
Q 10	R132911	Q 2N5583	P SS TO39	1	R 64	R101531	R MF H390E F 0W4 E3	
Q 12	R132910	Q BS170	FN SS TO92	1	R 65	R101528	R MF H220E F 0W4 E3	
Q 13	R132910	Q BS170	FN SS TO92	1	R 67	R101523	R MF H 82E F 0W4 E3	
Q 14	R132910	Q BS170	FN SS TO92	1	R 68	R101528	R MF H220E F 0W4 E3	
Q461	R1314295	Q BC549B	N SS TO92		R 69	R101542	R MF H 3K3 F 0W4 E3	
Q465	R132916	Q BS250	FN SS TO92	1	R 70	R101512	R MF H 10E F 0W4 E3	
Q470	R1314295	Q BC549B	N SS TO92	1	R 71	R101540	R MF H 2K2 F 0W4 E3	
R 1	R101548	R MF H 10K F 0W4 E3			R 72	R101540	R MF H 2K2 F 0W4 E3	
R 2	R101528	R MF H220E F 0W4 E3			R 73	R101536	R MF H 1K F 0W4 E3	
R 3	R101512	R MF H 10E F 0W4 E3			R 74	R101548	R MF H 10K F 0W4 E3	
R 4	R101548	R MF H 10K F 0W4 E3			R 75	R101508	R MF H 4E7 F 0W4 E3	
R 5	R101528	R MF H220E F 0W4 E3			R 76	R101515	R MF H 18E F 0W4 E3	
R 6	R101512	R MF H 10E F 0W4 E3			R 77	R101522	R MF H 68E F 0W4 E3	
R 7	R101548	R MF H 10K F 0W4 E3			R 78	R101531	R MF H390E F 0W4 E3	
R 8	R101528	R MF H220E F 0W4 E3			R 79	R101512	R MF H 10E F 0W4 E3	
R 9	R101512	R MF H 10E F 0W4 E3			R 80	R1015401	R MF H 2K F 0W4 E3	
R 10	R1015231	R MF H 75E F 0W4 E3			R 81	R101523	R MF H 82E F 0W4 E3	
R 11	R1015231	R MF H 75E F 0W4 E3			R 83	R101528	R MF H220E F 0W4 E3	
R 12	R1015231	R MF H 75E F 0W4 E3			R 84	R101539	R MF H 1K8 F 0W4 E3	
R 13	R101540	R MF H 2K2 F 0W4 E3			R 85	R101538	R MF H 1K5 F 0W4 E3	
R 14	R101540	R MF H 2K2 F 0W4 E3			R 86	R101532	R MF H470E F 0W4 E3	
R 15	R101540	R MF H 2K2 F 0W4 E3			R 87	R101535	R MF H820E F 0W4 E3	
R 16	R101553	R MF H 27K F 0W4 E3			R 88	R101544	R MF H 4K7 F 0W4 E3	
R 17	R101553	R MF H 27K F 0W4 E3			R 89	R101549	R MF H 12K F 0W4 E3	
R 18	R101553	R MF H 27K F 0W4 E3			R 90	R101544	R MF H 4K7 F 0W4 E3	
R 19	R101524	R MF H100E F 0W4 E3		1	R 91	R101549	R MF H 12K F 0W4 E3	
R 20	R101524	R MF H100E F 0W4 E3		1	R 92	R101512	R MF H 10E F 0W4 E3	
R 21	R101524	R MF H100E F 0W4 E3			R 93	R101512	R MF H 10E F 0W4 E3	
R 22	R101548	R MF H 10K F 0W4 E3			R 95	R101545	R MF H 5K6 F 0W4 E3	
R 23	R101548	R MF H 10K F 0W4 E3			R 96	R101523	R MF H 82E F 0W4 E3	
R 24	R1015401	R MF H 2K F 0W4 E3			R 97	R101536	R MF H 1K F 0W4 E3	
R 25	R101573	R MF H 3K3 F 0W4 E3		1	R 99	R101536	R MF H 1K F 0W4 E3	
R 26	R101555	R MF H 39K F 0W4 E3			R101	R101536	R MF H 1K F 0W4 E3	
R 27	R101560	R MF H100K F 0W4 E3			R103	R101536	R MF H 1K F 0W4 E3	
R 28	R101539	R MF H 1K8 F 0W4 E3			R104	R101536	R MF H 1K F 0W4 E3	
R 30	R101542	R MF H 3K3 F 0W4 E3			R105	R101540	R MF H 2K2 F 0W4 E3	
R 31	R101530	R MF H330E F 0W4 E3			R106	R101540	R MF H 2K2 F 0W4 E3	
R 32	R101525	R MF H120E F 0W4 E3			R107	R101540	R MF H 2K2 F 0W4 E3	
R 33	R101540	R MF H 2K2 F 0W4 E3			R108	R101568	R MF H470K F 0W4 E3	
R 34	R101526	R MF H150E F 0W4 E3			R110	R1015281	R MF H200E F 0W4 E3	
R 35	R101540	R MF H 2K2 F 0W4 E3			R111	R101512	R MF H 10E F 0W4 E3	
R 36	R101516	R MF H 22E F 0W4 E3			R112	R101545	R MF H 5K6 F 0W4 E3	
R 37	R101530	R MF H330E F 0W4 E3		1	R113	R101525	R MF H120E F 0W4 E3	
R 38	R101541	R MF H 2K7 F 0W4 E3			R114	R101538	R MF H 1K5 F 0W4 E3	
R 40	R101539	R MF H 1K8 F 0W4 E3			R115	R101538	R MF H 1K5 F 0W4 E3	
R 41	R101525	R MF H120E F 0W4 E3			R116	R1015401	R MF H 2K F 0W4 E3	
R 42	R101540	R MF H 2K2 F 0W4 E3			R117	R1015401	R MF H 2K F 0W4 E3	
R 43	R101526	R MF H150E F 0W4 E3			R118	R1015401	R MF H 2K F 0W4 E3	
R 44	R101516	R MF H 22E F 0W4 E3			R120	R101535	R MF H820E F 0W4 E3	
R 45	R101540	R MF H 2K2 F 0W4 E3			R121	R101541	R MF H 2K7 F 0W4 E3	
R 46	R101548	R MF H 10K F 0W4 E3			R123	R101552	R MF H 22K F 0W4 E3	
R 47	R101545	R MF H 5K6 F 0W4 E3			R124	R101552	R MF H 22K F 0W4 E3	1
R 48	R1015401	R MF H 2K F 0W4 E3			R463	R101545	R MF H 5K6 F 0W4 E3	
R 49	R1011473	R MF H 9K1 G 0W25		1	R464	R101541	R MF H 2K7 F 0W4 E3	1
R 50	R101528	R MF H220E F 0W4 E3			R468	R101542	R MF H 3K3 F 0W4 E3	
R 52	R101523	R MF H 82E F 0W4 E3			R470	R101548	R MF H 10K F 0W4 E3	1
R 53	R101535	R MF H820E F 0W4 E3			R471	R101548	R MF H 10K F 0W4 E3	1
R 54	R101528	R MF H220E F 0W4 E3			TP 1	R313729	J PIN TESTEYE	1
R 55	R101533	R MF H560E F 0W4 E3			TP 2	R313729	J PIN TESTEYE	1
R 56	R101529	R MF H270E F 0W4 E3			TP 3	R313729	J PIN TESTEYE	1
R 57	R101544	R MF H 4K7 F 0W4 E3		1	TP 4	R313729	J PIN TESTEYE	1
R 58	R101512	R MF H 10E F 0W4 E3			TP 5	R313729	J PIN TESTEYE	1
R 59	R101548	R MF H 10K F 0W4 E3			TP 6	R313729	J PIN TESTEYE	1
R 60	R101545	R MF H 5K6 F 0W4 E3						
R 61	R1015401	R MF H 2K F 0W4 E3						

