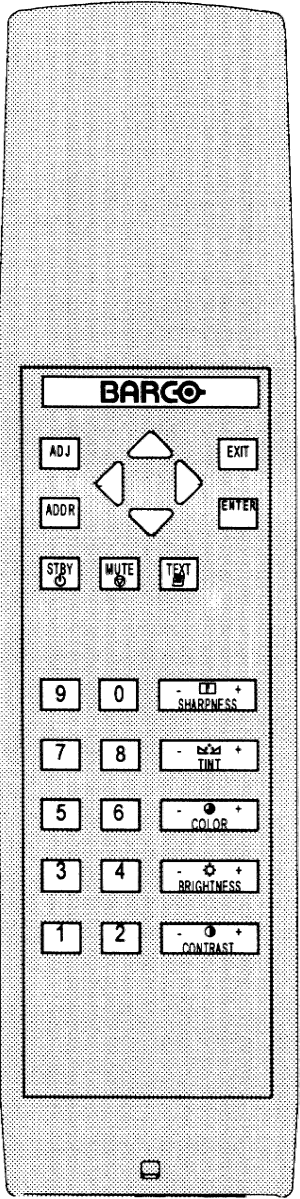
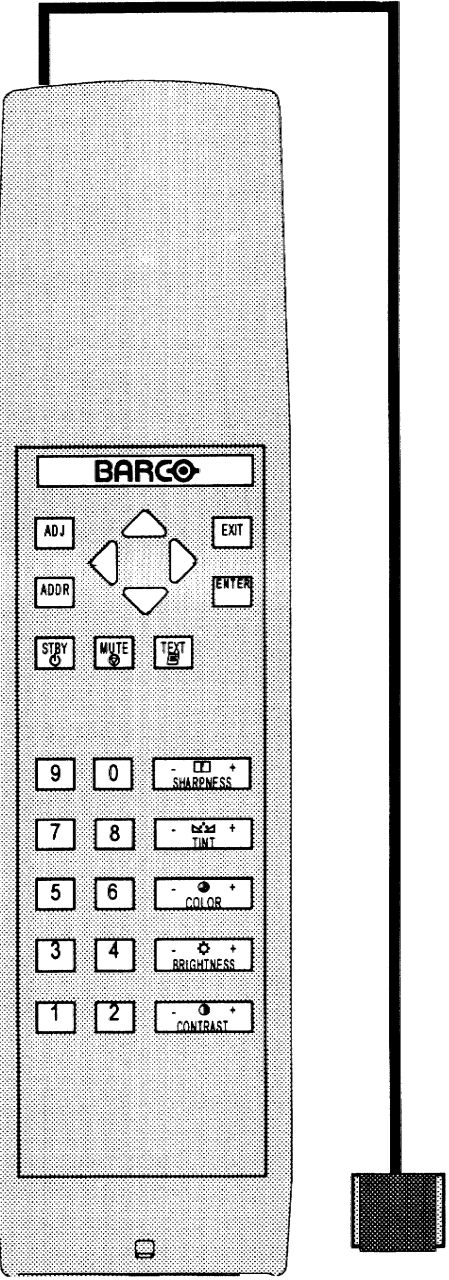
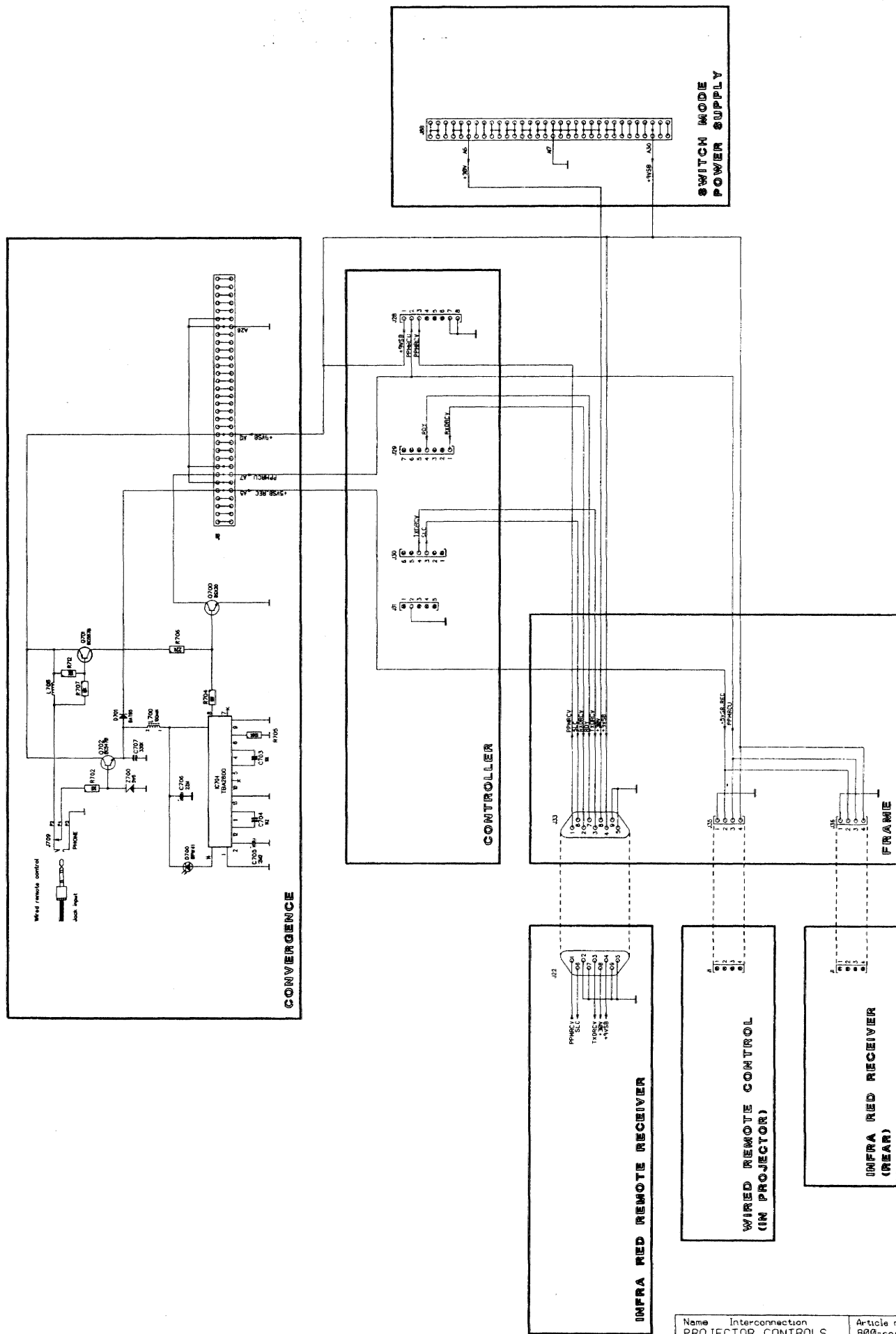


Infra Red Remote control  
79 1664

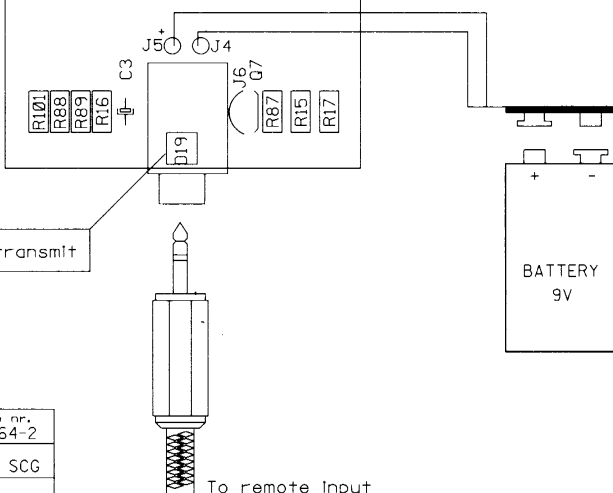
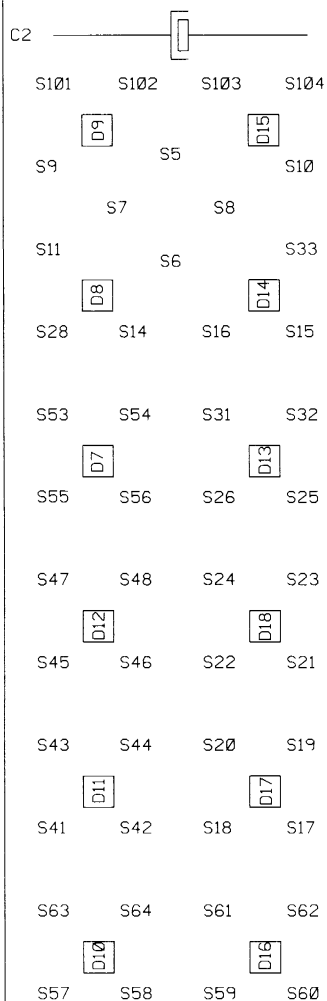
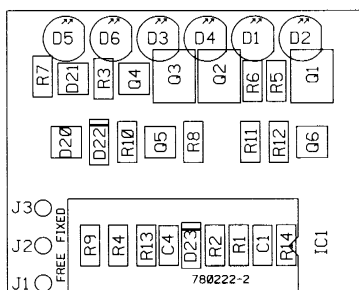


Internal Control unit  
79 1666





Address locked on 10  
Free address



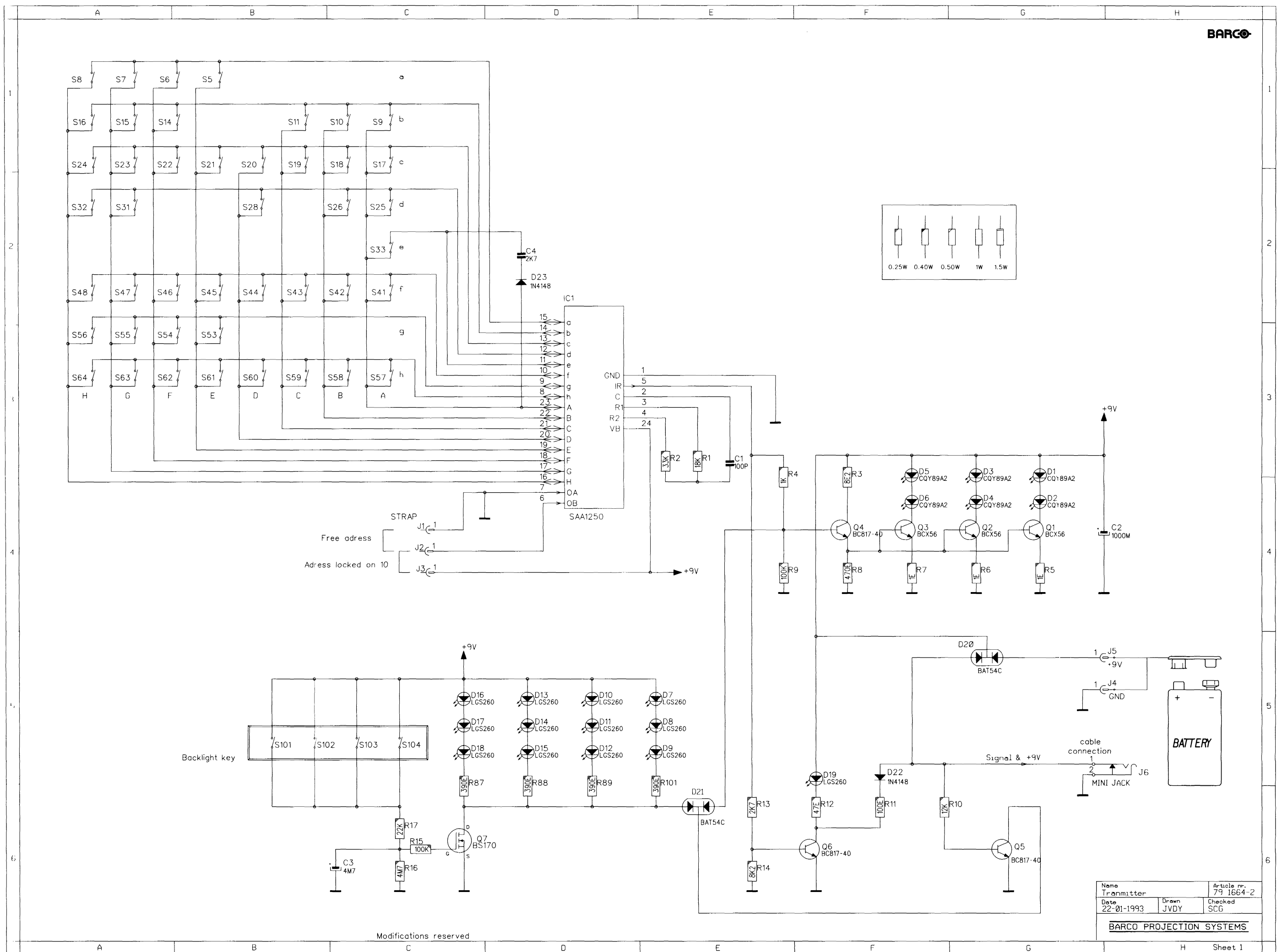
# COMP. LOC.

C1	B 2
C2	A 2
C3	B 5
C4	B 2
D1	B 1
D2	B 1
D3	B 1
D4	B 1
D5	B 1
D6	B 1
D7	B 3
D8	B 3
D9	B 2
D10	B 5
D11	B 4
D12	B 4
D13	B 3
D14	B 3
D15	B 2
D16	B 5
D17	B 4
D18	B 4
D19	B 5
D20	B 1
D21	B 1
D22	B 1
D23	B 2
IC1	B 2
J1	A 2
J2	A 2
J3	A 1
J4	B 5
J5	B 5
J6	B 5
R1	B 2
R2	B 2
R3	B 1
R4	B 2
R5	B 1
R6	B 1
R7	B 1
R8	B 1
R9	B 2
R10	B 1
R11	B 1
R12	B 1
R13	B 2
R14	B 2
R15	B 5
R16	B 5
R17	B 5
R87	B 5
R88	B 5
R89	B 5
R101	B 5
S5	B 2
S6	B 3
S7	B 3
S8	B 3
S9	B 2
S10	B 2
S11	B 3
S14	B 3
S15	B 3
S16	B 3
S17	B 4
S18	B 4
S19	B 4
S20	B 4
S21	B 4
S22	B 4
S23	B 4
S24	B 4
S25	B 3
S26	B 3
S28	B 3
S31	B 3
S32	B 3
S33	B 3
S36	B 3
S41	B 4
S42	B 4
S43	B 4
S44	B 4
S45	B 4
S46	B 4
S47	B 4
S48	B 4
S53	B 3
S54	B 3
S55	B 3
S56	B 3
S57	B 3
S58	B 5
S59	B 5
S60	B 5
S61	B 5
S62	B 5
S63	B 5
S64	B 5
S101	B 2
S102	B 2
S103	B 2
S104	B 2

Name	Transmitter	Article nr.	79 1664-2
Date	22-01-1993	Drawn	JVDY
		Checked	SCG

BARCO PROJECTION SYSTEMS

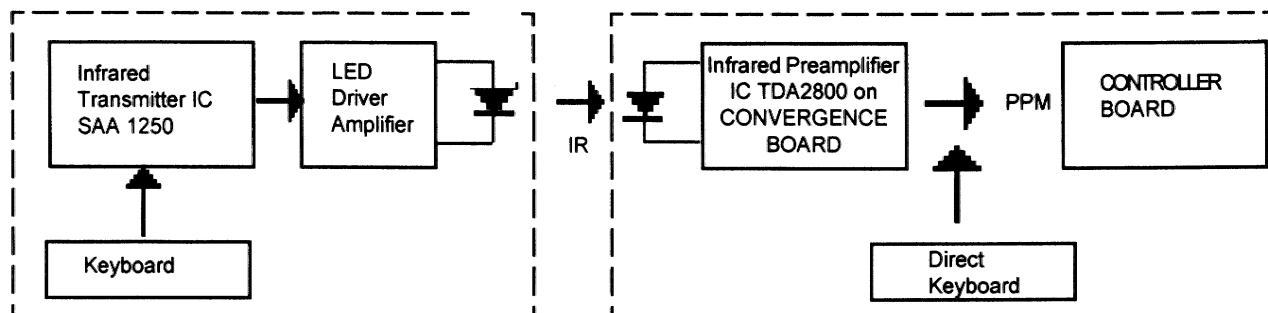
Modifications reserved



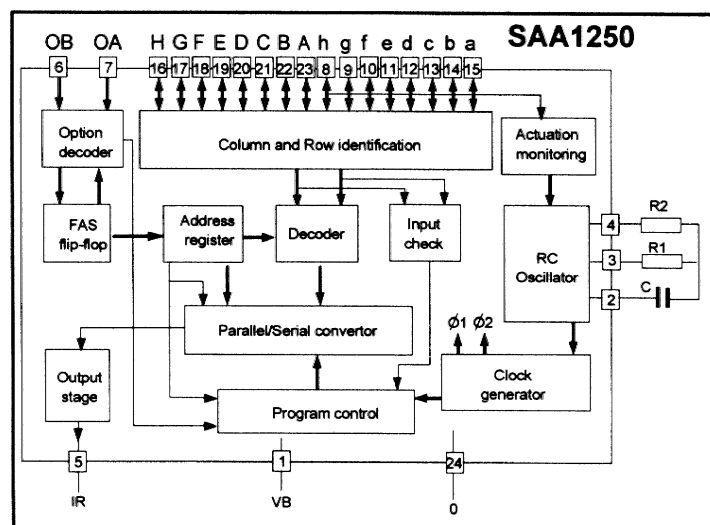
COMP. LOC.		COMP. LOC.	
C1	E 3	S102	B 5
C2	H 4	S103	C 5
C3	C 6	S104	C 5
C4	D 2		
D1	G 3		
D2	G 4		
D3	G 3		
D4	G 4		
D5	F 3		
D6	F 4		
D7	F 5		
D8	F 5		
D9	F 5		
D10	D 5		
D11	D 5		
D12	D 5		
D13	D 5		
D14	D 5		
D15	D 5		
D16	C 5		
D17	C 5		
D18	C 5		
D19	C 5		
D20	F 6		
D21	F 5		
D22	F 5		
D23	D 2		
IC1	D 2		
J1	C 4		
J2	C 4		
J3	C 4		
J4	C 5		
J5	C 5		
J6	C 5		
Q1	G 4		
Q2	C 4		
Q3	F 4		
Q4	F 4		
Q5	C 6		
Q6	F 6		
Q7	C 6		
R1	E 3		
R2	F 3		
R3	F 3		
R4	F 3		
R5	F 3		
R6	F 3		
R7	F 3		
R8	F 3		
R9	F 3		
R10	F 3		
R11	F 3		
R12	F 3		
R13	F 3		
R14	F 3		
R15	F 3		
R16	F 3		
R17	F 3		
R18	F 3		
R19	F 3		
R20	F 3		
R21	F 3		
R22	F 3		
R23	F 3		
R24	F 3		
R25	F 3		
R26	F 3		
R27	F 3		
R28	F 3		
R29	F 3		
R30	F 3		
R31	F 3		
R32	F 3		
R33	F 3		
R34	F 3		
R35	F 3		
R36	F 3		
R37	F 3		
R38	F 3		
R39	F 3		
R40	F 3		
R41	F 3		
R42	F 3		
R43	F 3		
R44	F 3		
R45	F 3		
R46	F 3		
R47	F 3		
R48	F 3		
R49	F 3		
R50	F 3		
R51	F 3		
R52	F 3		
R53	F 3		
R54	F 3		
R55	F 3		
R56	F 3		
R57	F 3		
R58	F 3		
R59	F 3		
R60	F 3		
R61	F 3		
R62	F 3		
R63	F 3		
R64	F 3		
R65	F 3		
R66	F 3		
R67	F 3		
R68	F 3		
R69	F 3		
R70	F 3		
R71	F 3		
R72	F 3		
R73	F 3		
R74	F 3		
R75	F 3		
R76	F 3		
R77	F 3		
R78	F 3		
R79	F 3		
R80	F 3		
R81	F 3		
R82	F 3		
R83	F 3		
R84	F 3		
R85	F 3		
R86	F 3		
R87	F 3		
R88	F 3		
R89	F 3		
R90	F 3		
R91	F 3		
R92	F 3		
R93	F 3		
R94	F 3		
R95	F 3		
R96	F 3		
R97	F 3		
R98	F 3		
R99	F 3		
R100	F 3		
R101	F 3		
S5	B 1		
S6	A 1		
S7	A 1		
S8	A 1		
S9	C 1		
S10	C 1		
S11	B 1		
S14	A 1		
S15	A 1		
S16	A 1		
S17	C 1		
S18	C 1		
S19	B 1		
S20	B 1		
S21	B 1		
S22	A 1		
S23	A 1		
S24	C 2		
S25	B 2		
S26	B 2		
S28	B 2		
S31	A 2		
S32	A 2		
S33	C 2		
S41	C 2		
S42	C 2		
S43	B 2		
S44	B 2		
S45	B 2		
S46	A 2		
S47	A 2		
S48	A 2		
S53	B 3		
S54	A 3		
S55	A 3		
S56	C 3		
S57	C 3		
S58	C 3		
S59	B 3		
S60	B 3		
S61	B 3		
S62	A 3		
S63	A 3		
S64	A 3		
S101	B 5		

Name	Transmitter	Article nr.	79 1664-2
Date	22-01-1993	Drawn	JVDY
		Checked	SCG
BARCO PROJECTION SYSTEMS			

## BLOCK DIAGRAM



## BLOCK DIAGRAM IC SAA1250



### Code for the OA and OB address inputs

input	OA	OB
option I	H	H
option II	H	L
option III	L	H
free address selection	L*	L*

\* L impulse (min.30us)




### Used options:

- Option III: alle commands are sent with address 10
- Option: free address selection

### Command table of the infrared transmitter IC SAA 1250

Command	Input code		Option III	Free Address Selection
No	a b c d e f g h	A B C D E F G H	Address 10	OA and OB to L potential
S5 Up	x			
S6 Down	x			
S7 Right	x			
S8 Left	x			
S9 Exit	x	x		
S10 Adjust	x	x		
S11 Enter	x	x		
S14 Text	x			
S15 Stdbby	x			
S16 Pause	x			

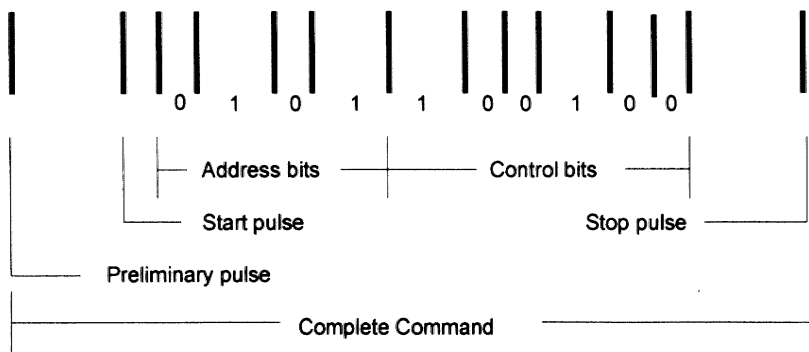
Command table of the infrared transmitter IC SAA 1250 (continuu)

Command		Input code																Option III	Free Address Selection	
No		a	b	c	d	e	f	g	h	A	B	C	D	E	F	G	H	Address 10	OA and OB to L potential	
S17	1			x						x									Address 1	
S18	2			x							x								Address 2	
S19	3			x								x							Address 3	
S20	4			x									x						Address 4	
S21	5			x										x					Address 5	
S22	6			x											x				Address 6	
S23	7			x												x			Address 7	
S24	8			x													x		Address 8	
S25	9				x					x									Address 9	
S26	0				x						x								Address 10	
S27																				
S33	Address					x				x									FAS OFF	
S41	Contr+					x				x										
S42	Contr -					x					x									
S43	Bright+					x						x								
S44	Bright -					x							x							
S45	Sat+					x								x						
S46	Sat -					x									x					
S47	Tint+					x										x				
S48	Tint -					x											x			
S55	Sharp+						x								x					
S56	Sharp -						x									x				

Operational mode

According to Table above, the SAA 1250 operates in two modes, which are determined via the OA and OB address input (see table on preceding page).

The first command is given about 20ms after contact actuation. All following commands are sent periodically every 130 ms.



The signals are transmitted by means of infrared light in the shape of packages pulses. For the transmission of a 10-bit word, 14 pulses are required. The binary information of a bit is contained in the time interval between two pulses. We define the time T (approx. 100us) as the basis for the code to be employed.

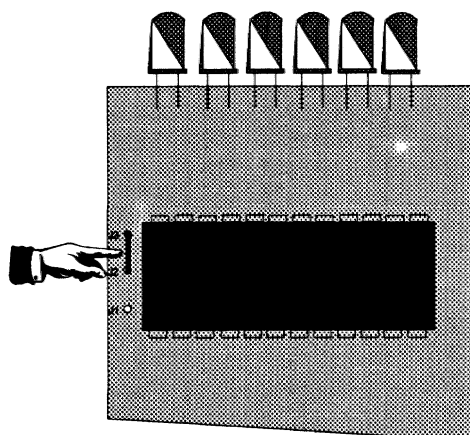
duration T = binary digit "0"  
duration 2T = binary digit "1"

Spacing between preliminary pulse and start pulse 3T. This is followed after a 1T by the 11 data pulses and terminated after a 3T interval by the stop pulse.

## Only for the Infra Red Remote control

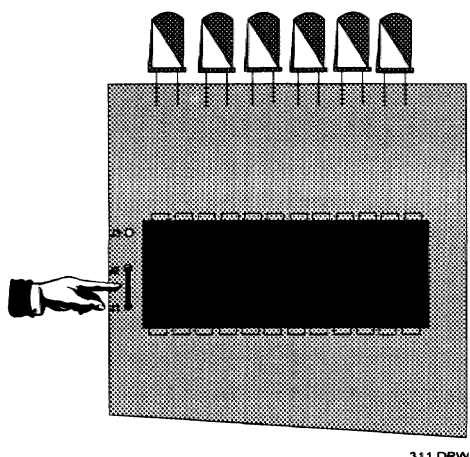
The OPTION III and the FREE ADDRESS SELECTION (FAS) are defined in the remote control RCU800 by means of an inserted jumper on the printed circuit board, see PCB lay-out.

### FIXED ADDRESS SELECTION MODE



First signal is transmitted 20ms after key depression, further signals periodically in a distance of 130ms with Address 10.

### FREE ADDRESS SELECTION MODE



First signal is transmitted 20ms after key depression, further signals every 130ms.

The commands can be transmitted consecutively to various addresses with free address selection.

In this mode the required address must be initially entered into the address register of the transmitter IC SAA1250, using one of the commands 17 to 32. Then all following commands are transmitted together with the stored address, including commands 17 to 32.

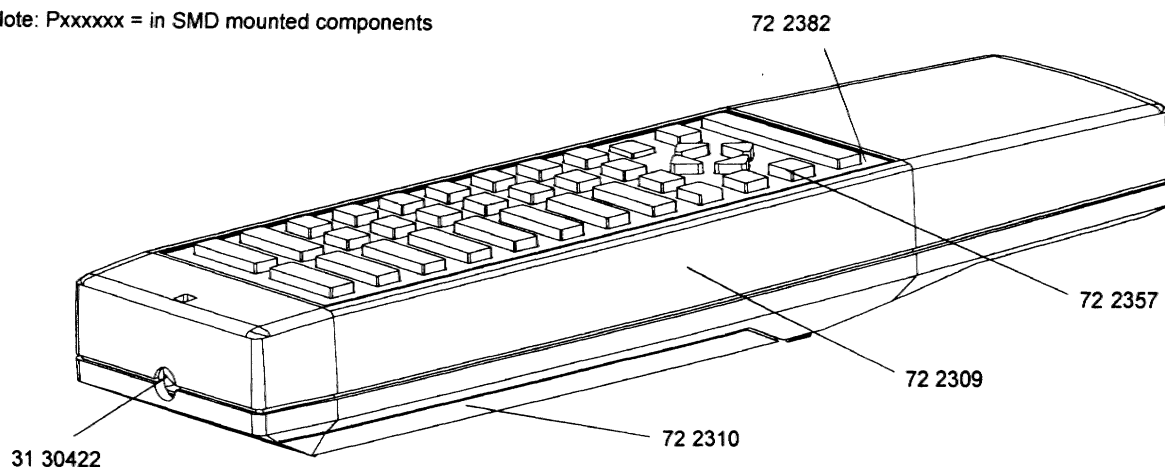
The command 33 (FAS off) clear, under the conditions of a L signal permanently applied to both address inputs, only the address register.

311.DRW

## Parts listing Transmitter RCU 79 1664

ITEM NO.	SIT.	DESCRIPTION	ITEM NO.	SIT.	DESCRIPTION
P210137	C..1	C(S)CEC1CH1206COG101J50	P232122	Q..1	SMC(S)TRNPN BCX56 SOT89
1111355	C..2	C EL AX1000M T 10E14 85	P232122	Q..2	SMC(S)TRNPN BCX56 SOT89
1115915	C..3	C EL5 RA 4M7M 35E2 85	P232122	Q..3	SMC(S)TRNPN BCX56 SOT89
P210147	C..4	C(S)CEC1CH1206COG272J50	P232026	Q..4	SMC(S)TRA BC817-40
1316666	D..1	D LED D5 T IR 89A2	P232026	Q..5	SMC(S)TRA BC817-40
1316666	D..2	D LED D5 T IR 89A2	P232026	Q..6	SMC(S)TRA BC817-40
1316666	D..3	D LED D5 T IR 89A2	132910	Q..7	Q BS170 FN SS TO92 060A5
1316666	D..4	D LED D5 T IR 89A2	P200103	R..1	R#CE H 18K J 0W12 1206
1316666	D..5	D LED D5 T IR 89A2	P200109	R..2	R#CE H 33K J 0W12 1206
1316666	D..6	D LED D5 T IR 89A2	P200023	R..3	R#CE H 8E2 J 0W12 1206
P234063	D..7	SMC(S)DIOLED LGS260	P200073	R..4	R#CE H 1K J 0W12 1206
P234063	D..8	SMC(S)DIOLED LGS260	P200001	R..5	R#CE H 1E J 0W12 1206
P234063	D..9	SMC(S)DIOLED LGS260	P200001	R..6	R#CE H 1E J 0W12 1206
P234063	D..10	SMC(S)DIOLED LGS260	P200001	R..7	R#CE H 1E J 0W12 1206
P234063	D..11	SMC(S)DIOLED LGS260	P200065	R..8	R#CE H470E J 0W12 1206
P234063	D..12	SMC(S)DIOLED LGS260	P200121	R..9	R#CE H100K J 0W12 1206
P234063	D..13	SMC(S)DIOLED LGS260	P200099	R..10	R#CE H 12K J 0W12 1206
P234063	D..14	SMC(S)DIOLED LGS260	P200049	R..11	R#CE H100E J 0W12 1206
P234063	D..15	SMC(S)DIOLED LGS260	P200041	R..12	R#CE H 47E J 0W12 1206
P234063	D..16	SMC(S)DIOLED LGS260	P200083	R..13	R#CE H 2K7 J 0W12 1206
P234063	D..17	SMC(S)DIOLED LGS260	P200095	R..14	R#CE H 8K2 J 0W12 1206
P234063	D..18	SMC(S)DIOLED LGS260	P200121	R..15	R#CE H100K J 0W12 1206
P234063	D..19	SMC(S)DIOLED LGS260	P200161	R..16	R#CE H 4M7 J 0W12 1206
P234205	D..20	SMC(S)DISCH BAT54C SOT23	P200105	R..17	R#CE H 22K J 0W12 1206
P234205	D..21	SMC(S)DISCH BAT54C SOT23	P200063	R..87	R#CE H390E J 0W12 1206
P234099	D..22	SMC(S)DIO 4148	P200063	R..88	R#CE H390E J 0W12 1206
P234099	D..23	SMC(S)DIO 4148	P200063	R..89	R#CE H390E J 0W12 1206
137371	I..1	U 1250 SAA DIP24 PIRTRA	P200063	R101	R#CE H390E J 0W12 1206
3130422	J...	J PHN FBS D 2.5MON P			
313196	J...	J BAT NWS P 2 9V			
780222	PC..	PCD#PJ52 D5000 TX			

Note: Pxxxxxx = in SMD mounted components





# TRANSMITTER RCU

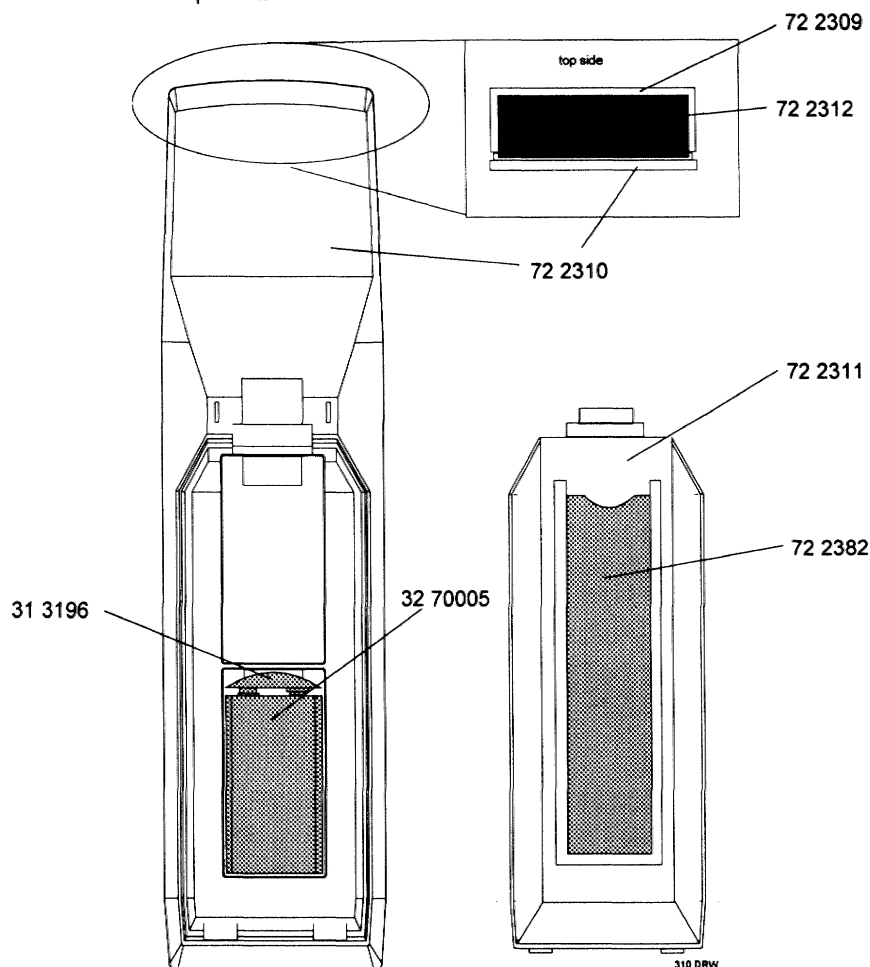
INTERNAL CONTROL UNIT

**79 1664**  
79 1666

## Spare parts Transmitter RCU 79 1664

ART.NO.	DESCRIPTION	QUANTITY	ART.NO.	DESCRIPTION	QUANTITY
13 16666	D LED D5 T IR 89A2	6	72 2309	HSG PJ49 TX2 CVR UP	1
13 2910	Q BS170 FN SS TO92 060A5	1	72 2310	HSG PJ49 TX2 CVR DN	1
13 7371	U 1250 SAA DIP24 PIRTRA	1	72 2311	HSG PJ49 TX2 CVR BAT	1
31 30422	J PHN FBS D 2.5MON P	1	72 2312	HSG PJ49 TX2 WDW IR	1
31 3196	J BAT NWS P 2 9V	1	72 2353	HSG PJ53 TX2 FOIL V700	1
32 70005	BAT 9V 6F22 ALK 0A525	1	72 2357	SW KYBD RUB PJ53 TX V700	1
36 15075	SCR HILO_P 3.2X 8,5HS B	1	72 2382	HSG PJ49 TX2 LFLT WDW	1
59 75045	LFLT RCU700 TX	1	78 0222	PCD#PJ52 D5000 TX	1

Note: Pxxxxxx = in SMD mounted components



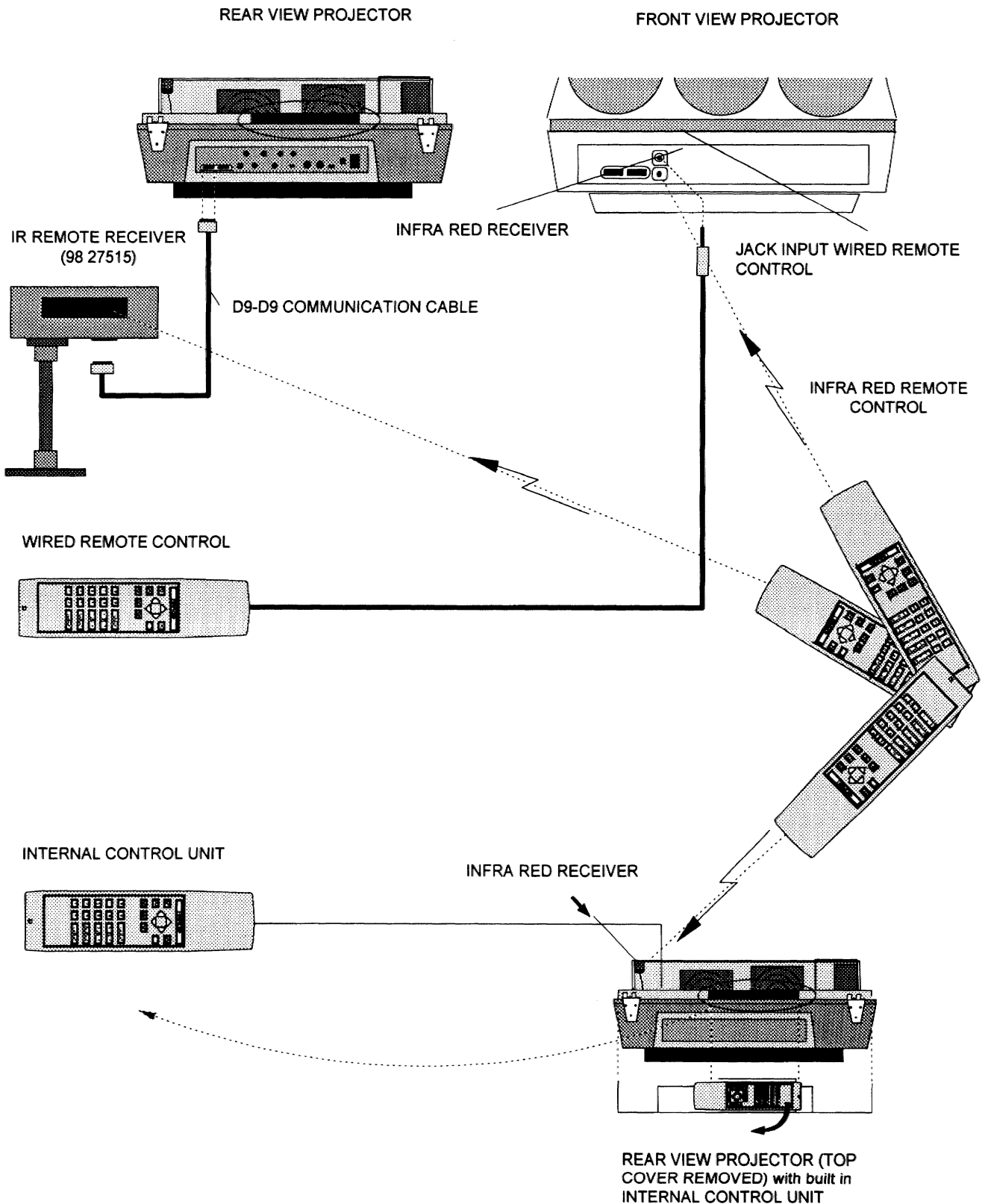
Parts listing Internal control unit 79 1666

ITEM NO.	SIT.	DESCRIPTION	ITEM NO.	SIT.	DESCRIPTION
79 1666P		UN#TX PJ51 RCU1200/2 W	13 7371	I..1	U 1250 SAA DIP24 PIRTRA
11 11555	C..2	C EL AX 2M2T 25E7 85	31 3944	J..1	J CT MBS P 4 M2SN

Spare parts Internal control unit 79 1666

ART.NO.	DESCRIPTION	QUANTITY	ART.NO.	DESCRIPTION	QUANTITY
13 7371	U 1250 SAA DIP24 PIRTRA	1	72 2309	HSG PJ49 TX2 CVR UP 02	1
31 3944	J CT MBS P 4 M2SN	1	72 2353	HSG PJ53 TX2 FOIL V700	1
36 3601	SCR D7981C 2.9X 6.5PS Z	2	72 2357	SW KYBD RUB PJ53 TX V700	1
71 23023	WSHR D 3.25X 7 T0.5 L	2	79 1666P	UN#TX PJ51 RCU1200/2 W	1

**FLOW CHART "PROJECTOR CONTROL"**



**FLOW CHART "PROJECTOR CONTROL"**

