

BARCO PROJECTION SYSTEMS

BARCO

BARCO DATA
701S

R9000718 - HD145 (120 VAC)

SERVICE SHEETS

DATE:16/02/96

revision 00

ART. NR. : R5975746A

BARCO PROJECTION SYSTEMS

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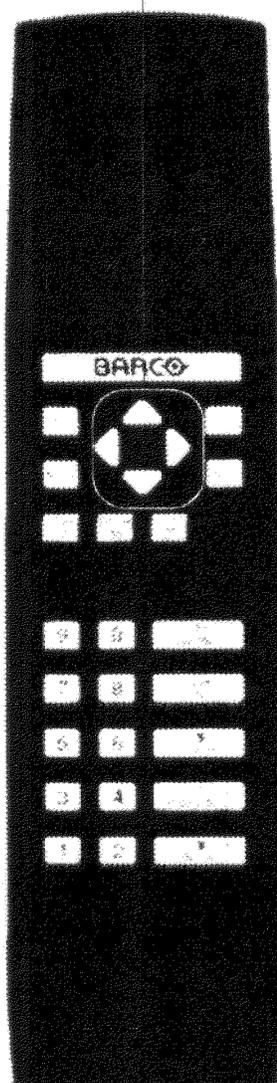
BARCO DATA
701

R9000719 - HD6 (120 VAC)

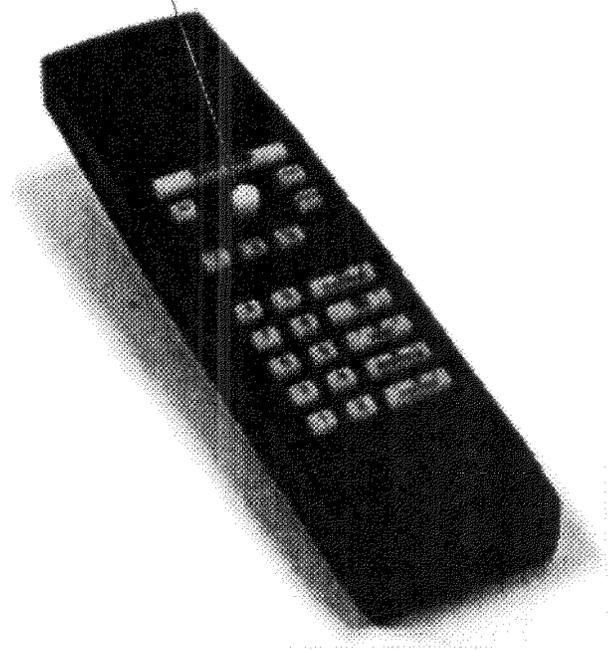
SERVICE SHEETS

Infra Red Remote control
79 1664

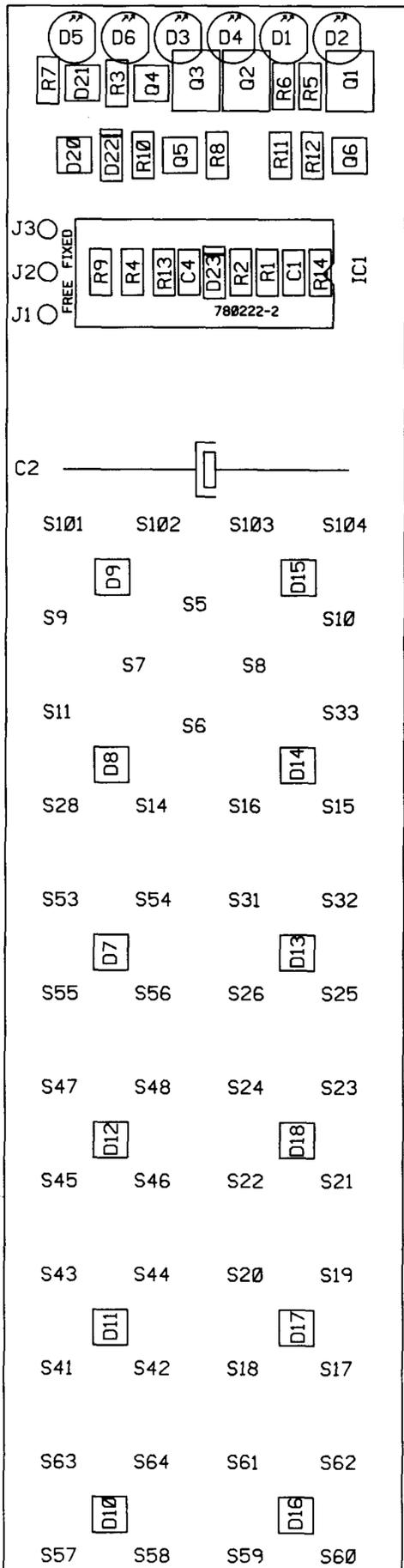
RCU with arrow keys



RCU with Joy stick

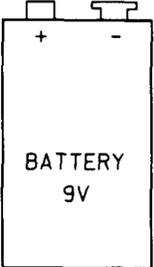


Address locked on 10
Free address



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
Q1	B 1
Q2	B 1
Q3	B 1
Q4	B 1
Q5	B 1
Q6	B 1
Q7	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 5
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

GREEN LED : transmit

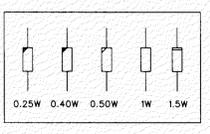
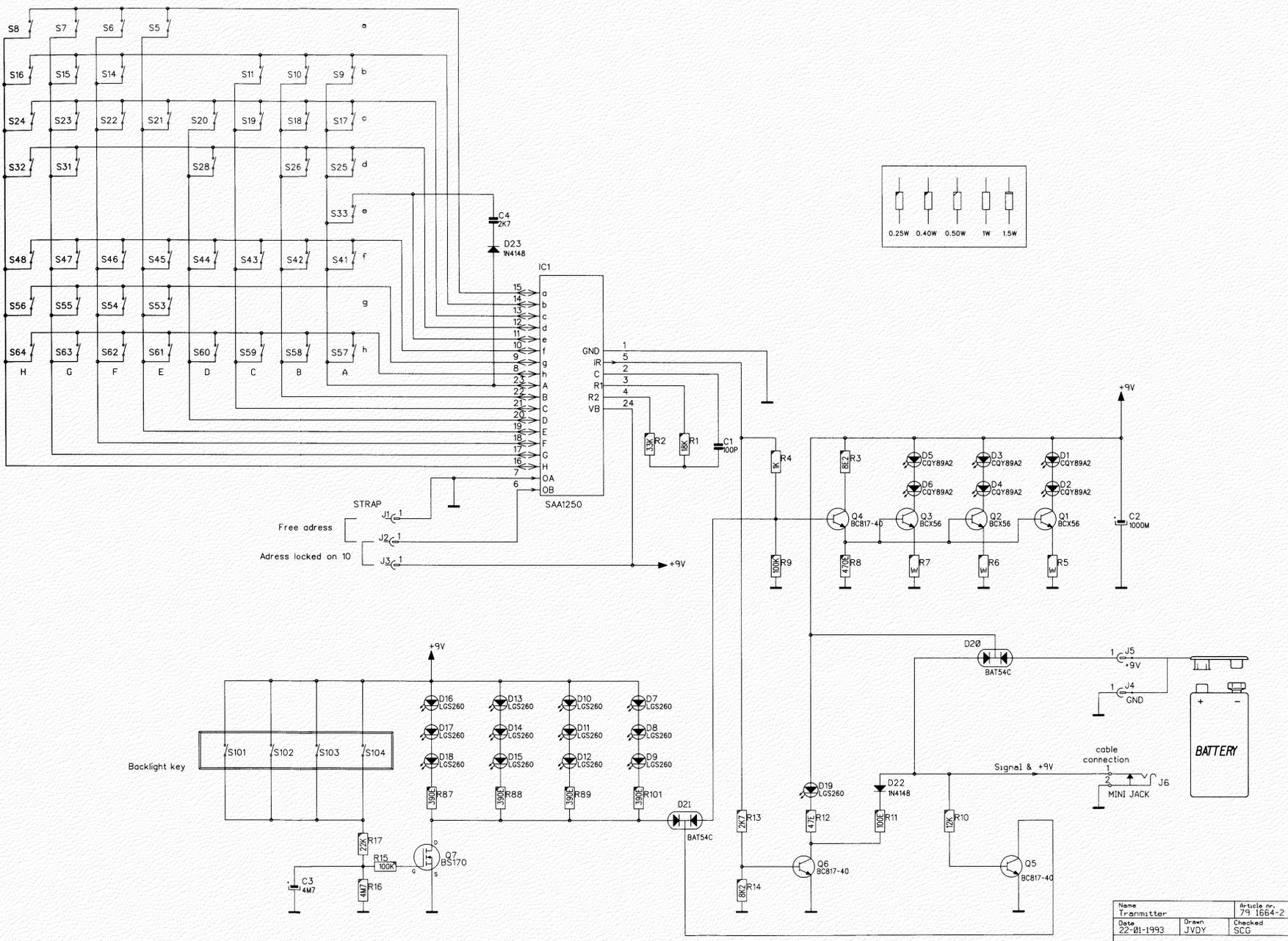


Name	Transmitter	Article nr.	79 1664-2
Date	22-01-1993	Drawn	JVDY
		Checked	SCG

BARCO PROJECTION SYSTEMS

Modifications reserved

BARCO



Backlight key

Modifications reserved

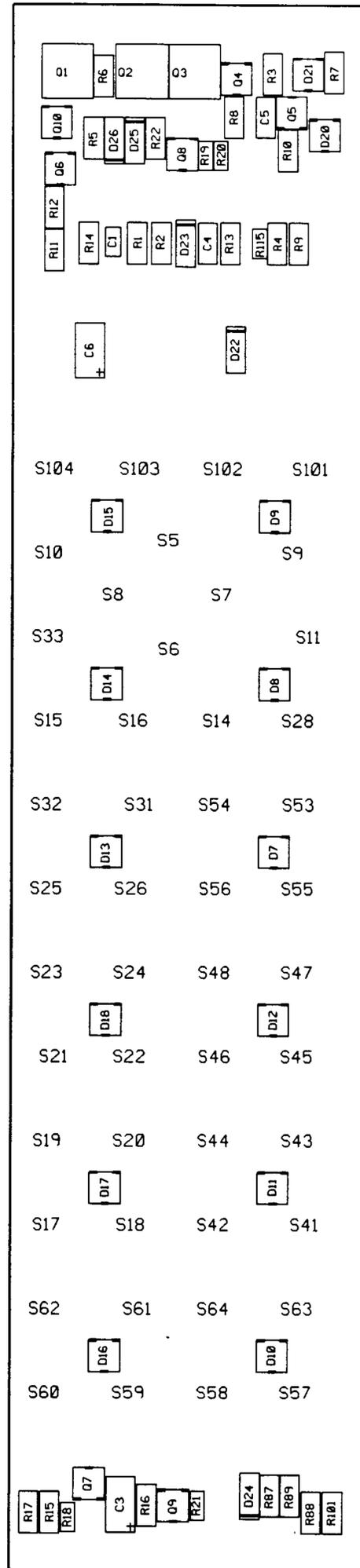
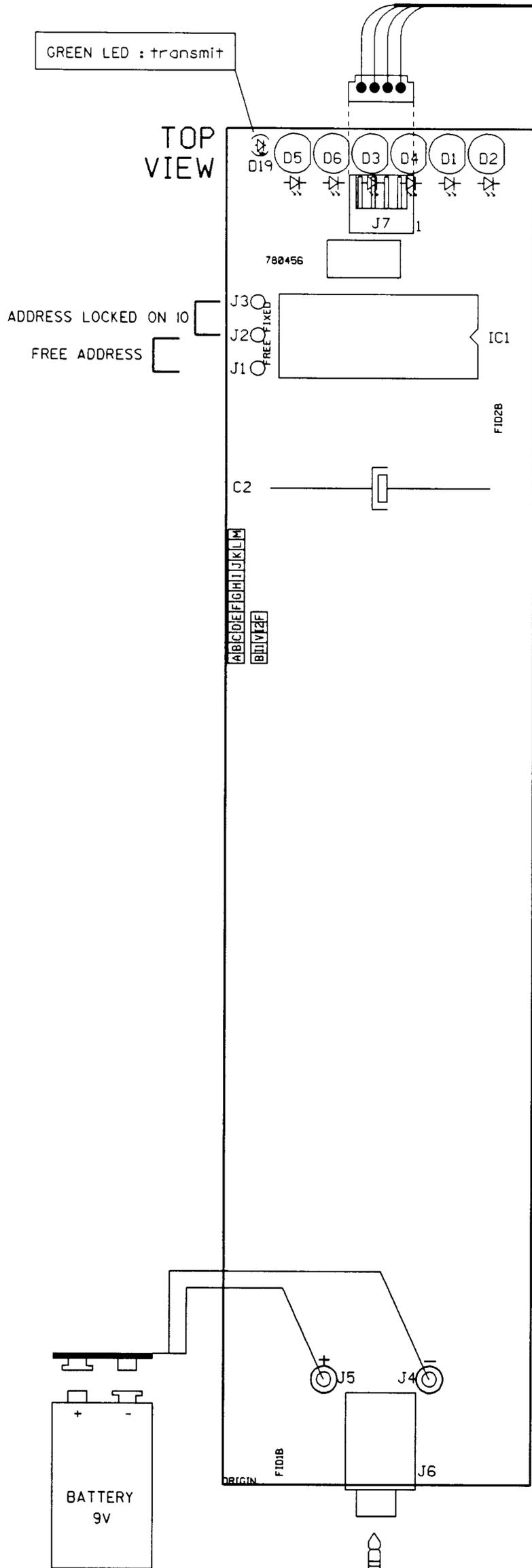
Name	Transmitter		Article nr.	79 1664-2
Date	22-01-1993	Drawn	JVDY	Checked
			SCG	
BARCO PROJECTION SYSTEMS				

COMP.	LOC.	COMP.	LOC.
C1	D 2	S102	B 5
C2	C 4	S103	C 5
C3	C 4	S104	C 5
C4	C 4		
D1	C 4		
D2	C 4		
D3	C 4		
D4	C 4		
D5	C 4		
D6	C 4		
D7	C 4		
D8	C 4		
D9	C 4		
D10	C 4		
D11	C 4		
D12	C 4		
D13	C 4		
D14	C 4		
D15	C 4		
D16	C 4		
D17	C 4		
D18	C 4		
D19	C 4		
D20	C 4		
D21	C 4		
D22	C 4		
D23	C 4		
IC1	D 2		
J1	C 4		
J2	C 4		
J3	C 4		
J4	C 4		
J5	C 4		
J6	C 4		
Q1	C 4		
Q2	C 4		
Q3	C 4		
Q4	C 4		
Q5	C 4		
Q6	C 4		
Q7	C 4		
R1	C 4		
R2	C 4		
R3	C 4		
R4	C 4		
R5	C 4		
R6	C 4		
R7	C 4		
R8	C 4		
R9	C 4		
R10	C 4		
R11	C 4		
R12	C 4		
R13	C 4		
R14	C 4		
R15	C 4		
R16	C 4		
R17	C 4		
R18	C 4		
R19	C 4		
R20	C 4		
R21	C 4		
R22	C 4		
R23	C 4		
R24	C 4		
R25	C 4		
R26	C 4		
R27	C 4		
R28	C 4		
R29	C 4		
R30	C 4		
R31	C 4		
R32	C 4		
R33	C 4		
R34	C 4		
R35	C 4		
R36	C 4		
R37	C 4		
R38	C 4		
R39	C 4		
R40	C 4		
S5	B 1		
S6	B 1		
S7	B 1		
S8	B 1		
S9	B 1		
S10	B 1		
S11	B 1		
S12	B 1		
S13	B 1		
S14	B 1		
S15	B 1		
S16	B 1		
S17	B 1		
S18	B 1		
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S20	B 1		
S21	B 1		
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S23	B 1		
S24	B 1		
S25	B 1		
S26	B 1		
S27	B 1		
S28	B 1		
S29	B 1		
S30	B 1		
S31	B 1		
S32	B 1		
S33	B 1		
S34	B 1		
S35	B 1		
S36	B 1		
S37	B 1		
S38	B 1		
S39	B 1		
S40	B 1		
S41	B 1		
S42	B 1		
S43	B 1		
S44	B 1		
S45	B 1		
S46	B 1		
S47	B 1		
S48	B 1		
S49	B 1		
S50	B 1		
S51	B 1		
S52	B 1		
S53	B 1		
S54	B 1		
S55	B 1		
S56	B 1		
S57	B 1		
S58	B 1		
S59	B 1		
S60	B 1		
S61	B 1		
S62	B 1		
S63	B 1		
S64	B 1		

CONNECTION WITH PROJECTOR
ONLY FOR LOCAL CONTROL

TOP VIEW

BOTTOM VIEW



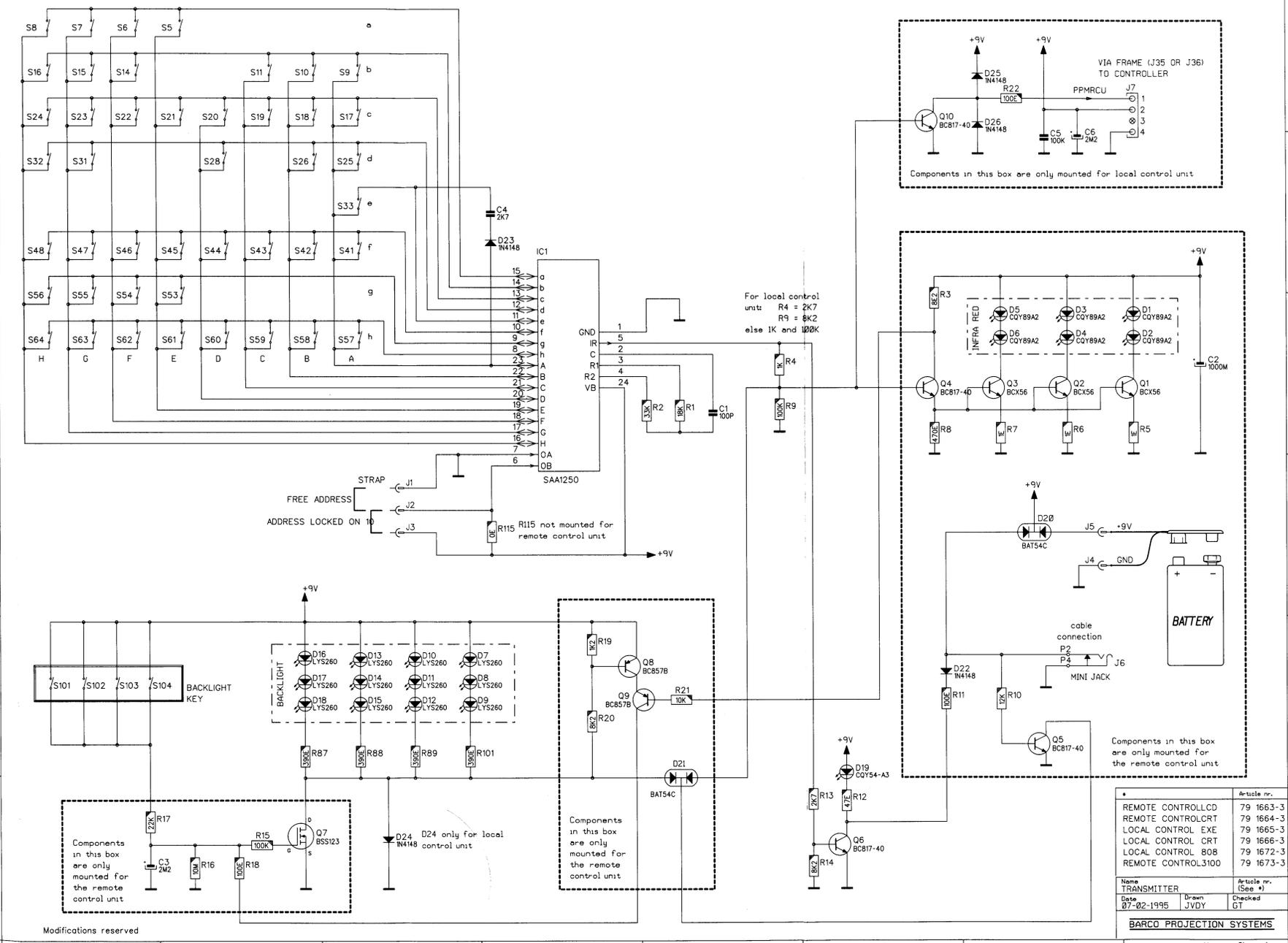
*	Article nr.
REMOTE CONTROL LCD	79 1663-3
REMOTE CONTROL CRT	79 1664-3
LOCAL CONTROL EXE	79 1665-3
LOCAL CONTROL CRT	79 1666-3
LOCAL CONTROL 808	79 1672-3
REMOTE CONTROL 3100	79 1673-3

Modifications reserved

Name		Article nr.	
TRANSMITTER		(See *)	
Date	Drawn	Checked	
22-02-1995	JVDY	SCG	
BARCO PROJECTION SYSTEMS			

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COMP.	LOC.	COMP.	LOC.
C1		S48	A 2
C2		S5	B 1
C3		S6	B 1
C4		S7	B 1
C5		S8	B 1
C6		S9	B 1
D1		S10	B 1
D2		S11	B 1
D3		S12	B 1
D4		S13	B 1
D5		S14	B 1
D6		S15	B 1
D7		S16	B 1
D8		S17	B 1
D9		S18	B 1
D10		S19	B 1
D11		S20	B 1
D12		S21	B 1
D13		S22	B 1
D14		S23	B 1
D15		S24	B 1
D16		S25	B 1
D17		S26	B 1
D18		S27	B 1
D19		S28	B 1
D20		S29	B 1
D21		S30	B 1
D22		S31	B 1
D23		S32	B 1
D24		S33	B 1
D25		S34	B 1
D26		S35	B 1
IC1	D 2	S36	B 1
J1			
J2			
J3			
J4			
J5			
J6			
J7			
Q1	H 3		
Q2			
Q3			
Q4			
Q5			
Q6			
Q7			
Q8			
Q9			
Q10			
R1			
R2			
R3			
R4			
R5			
R6			
R7			
R8			
R9			
R10			
R11			
R12			
R13			
R14			
R15			
R16			
R17			
R18			
R19			
R20			
R21			
R22			
R23			
R24			
S1	B 1		
S2	B 1		
S3	B 1		
S4	B 1		
S5	B 1		
S6	B 1		
S7	B 1		
S8	B 1		
S9	B 1		
S10	B 1		
S11	B 1		
S12	B 1		
S13	B 1		
S14	B 1		
S15	B 1		
S16	B 1		
S17	B 1		
S18	B 1		
S19	B 1		
S20	B 1		
S21	B 1		
S22	B 1		
S23	B 1		
S24	B 1		
S25	B 1		
S26	B 1		
S27	B 1		
S28	B 1		
S29	B 1		
S30	B 1		
S31	B 1		
S32	B 1		
S33	B 1		
S34	B 1		
S35	B 1		
S36	B 1		

Name	Article no.
REMOTE CONTROL LCD	79 1663-3
REMOTE CONTROL CRT	79 1664-3
LOCAL CONTROL EXE	79 1665-3
LOCAL CONTROL CRT	79 1666-3
LOCAL CONTROL 808	79 1672-3
REMOTE CONTROL 3100	79 1673-3

Name	Article no.
TRANSMITTER	(See *)

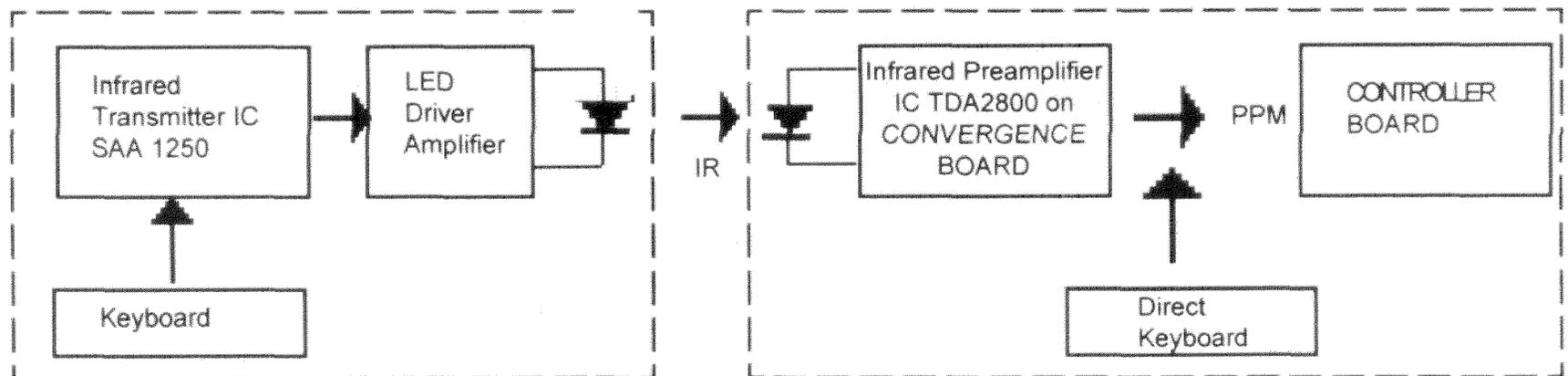
Date: 07-02-1995 Drawn: JVDY Checked: GT

BARCO PROJECTION SYSTEMS

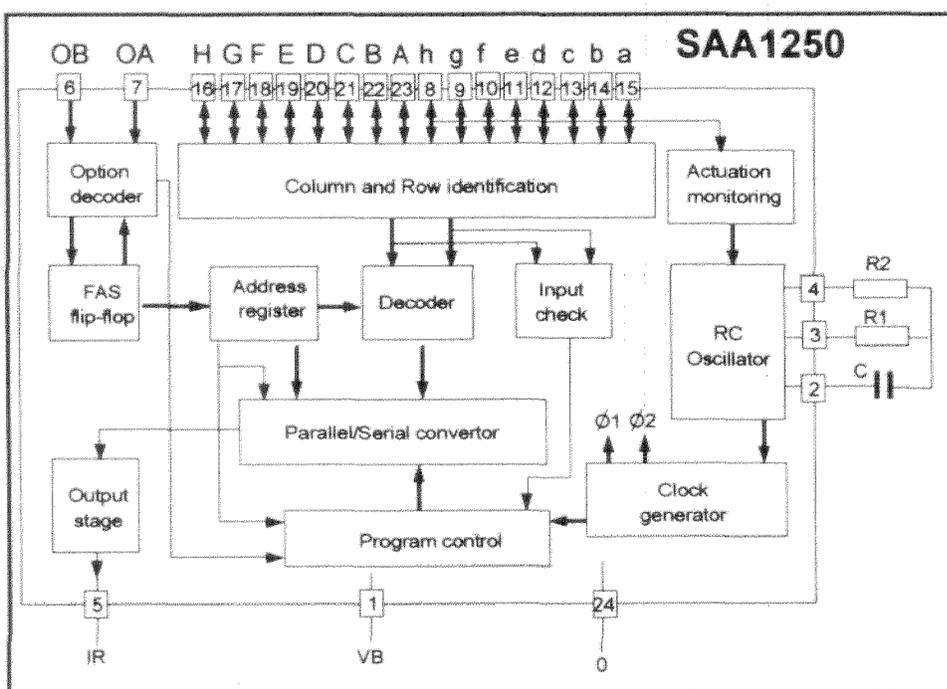
Modifications reserved

Sheet 1

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	Address 10	OA and OB to L potential
S5 Up	x		
S6 Down	x		
S7 Right	x		
S8 Left	x		
S9 Exit	x		
S10 Adjust	x		
S11 Enter	x		
S14 Text	x		
S15 Stdbby	x		
S16 Pause	x		

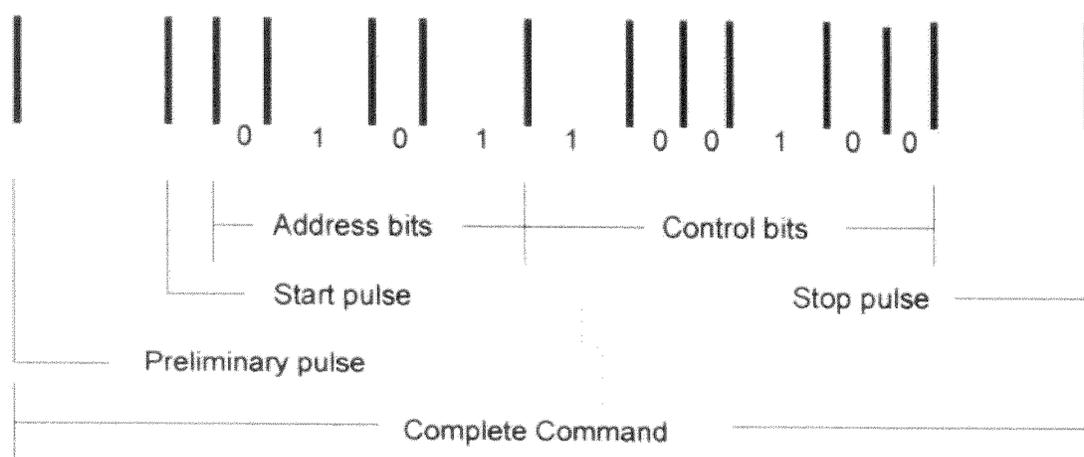
Command table of the infrared transmitter IC SAA 1250 (continuation)

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.



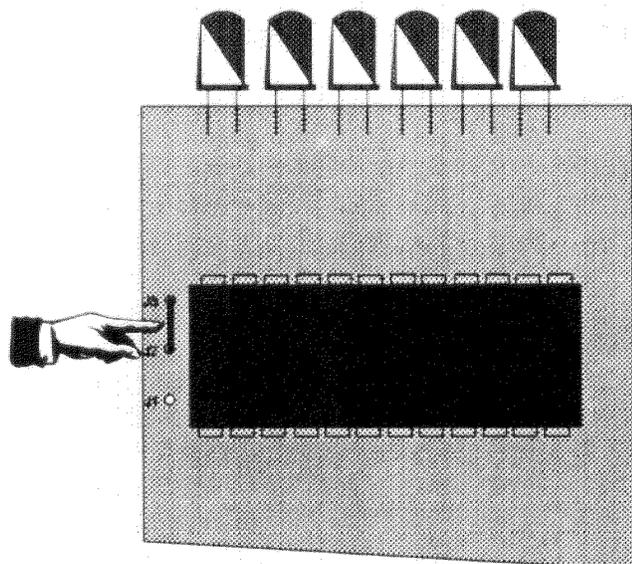
The signals are transmitted by means of infrared light in the shape of packages pulses. For the transmission of a 10-bit word, 14 pulses are required. The binary information of a bit is contained in the time interval between two pulses. We define the time T (approx. 100us) as the basis for the code to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

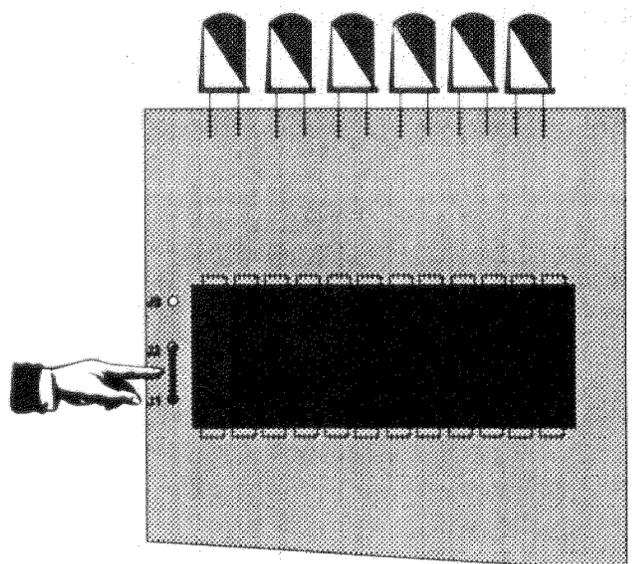
The OPTION III and the FREE ADDRESS SELECTION (FAS) are defined in the remote control RCU800 by means of an inserted jumper on the printed circuit board, see PCB lay-out.

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.

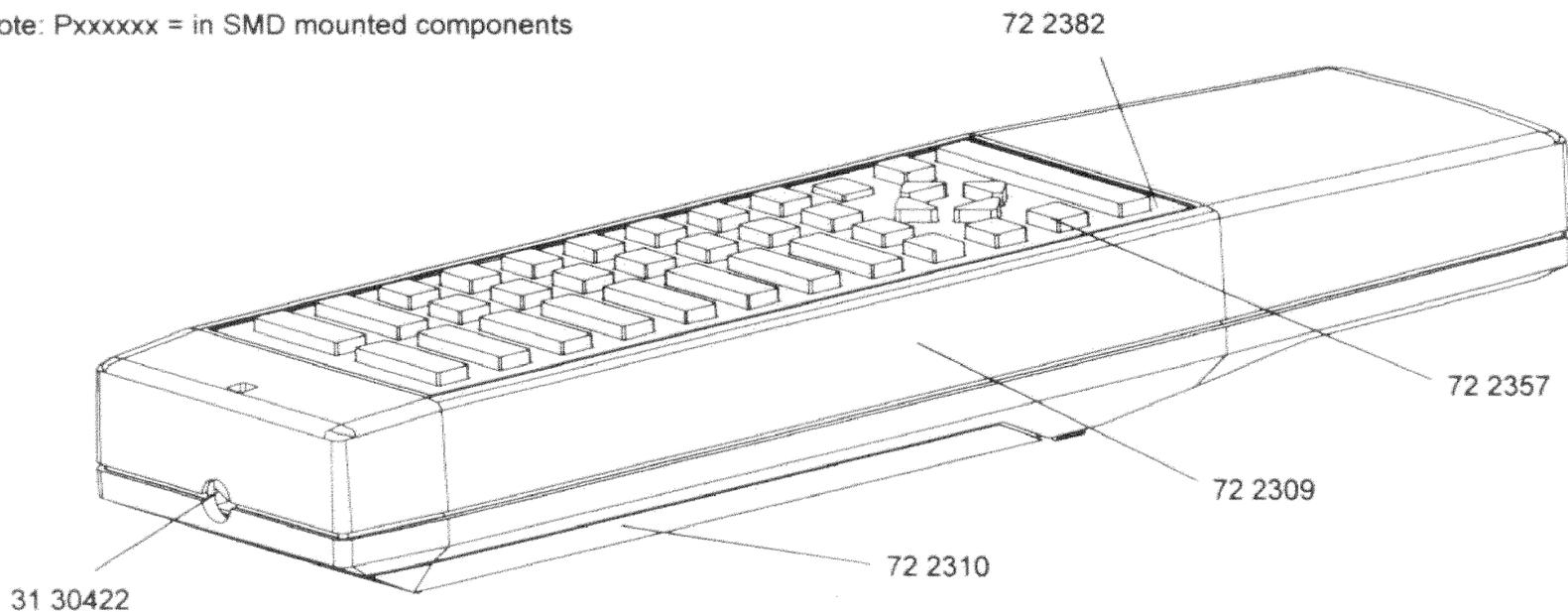
The command 33 (FAS off) clear, under the conditions of a L signal permanently applied to both address inputs, only the address register.

311.DRW

Parts listing Transmitter RCU 79 1664 (RCU with arrow keys)

ITEM NO.	SIT.	DESCRIPTION	ITEM NO.	SIT.	DESCRIPTION
P210137	C..1	C(S)CEC1CH1206COG101J 50	P232122	Q..1	SMC(S)TRNPN BCX56 SOT89
11 11355	C..2	C EL AX1000M T 10E14 85	P232122	Q..2	SMC(S)TRNPN BCX56 SOT89
11 15915	C..3	C EL5 RA 4M7M 35E2 85	P232122	Q..3	SMC(S)TRNPN BCX56 SOT89
P210147	C..4	C(S)CEC1CH1206COG272J 50	P232026	Q..4	SMC(S)TRA BC817-40
13 16666	D..1	D LED D5 T IR 89A2	P232026	Q..5	SMC(S)TRA BC817-40
13 16666	D..2	D LED D5 T IR 89A2	P232026	Q..6	SMC(S)TRA BC817-40
13 16666	D..3	D LED D5 T IR 89A2	13 2910	Q..7	Q BS170 FN SS TO92 060A5
13 16666	D..4	D LED D5 T IR 89A2	P200103	R..1	R# CE H 18K J 0W12 1206
13 16666	D..5	D LED D5 T IR 89A2	P200109	R..2	R# CE H 33K J 0W12 1206
13 16666	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
13 7371	L..1	U 1250 SAA DIP24 PIRTRA	P200063	R101	R# CE H390E J 0W12 1206
31 30422	J...	J PHN FBS D 2.5MON P			
31 3196	J...	J BAT NWS P 2 9V			
78 0222	PC..	PCD#PJ52 D5000 TX			

Note: Pxxxxxx = in SMD mounted components



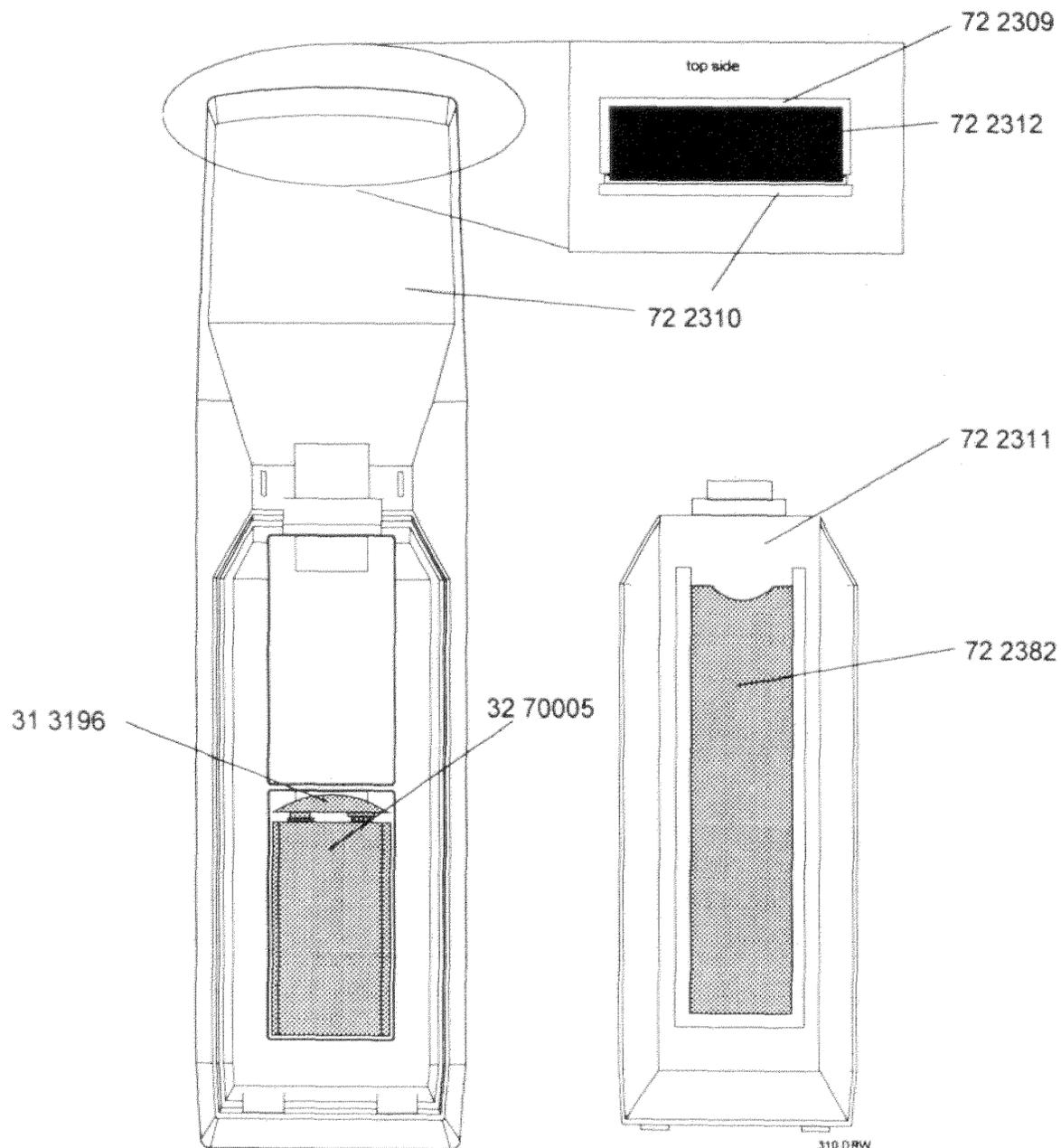
Transmitter RCU (remote control unit)

79 1664

Spare parts Transmitter RCU 79 1664 (RCU with arrow keys)

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



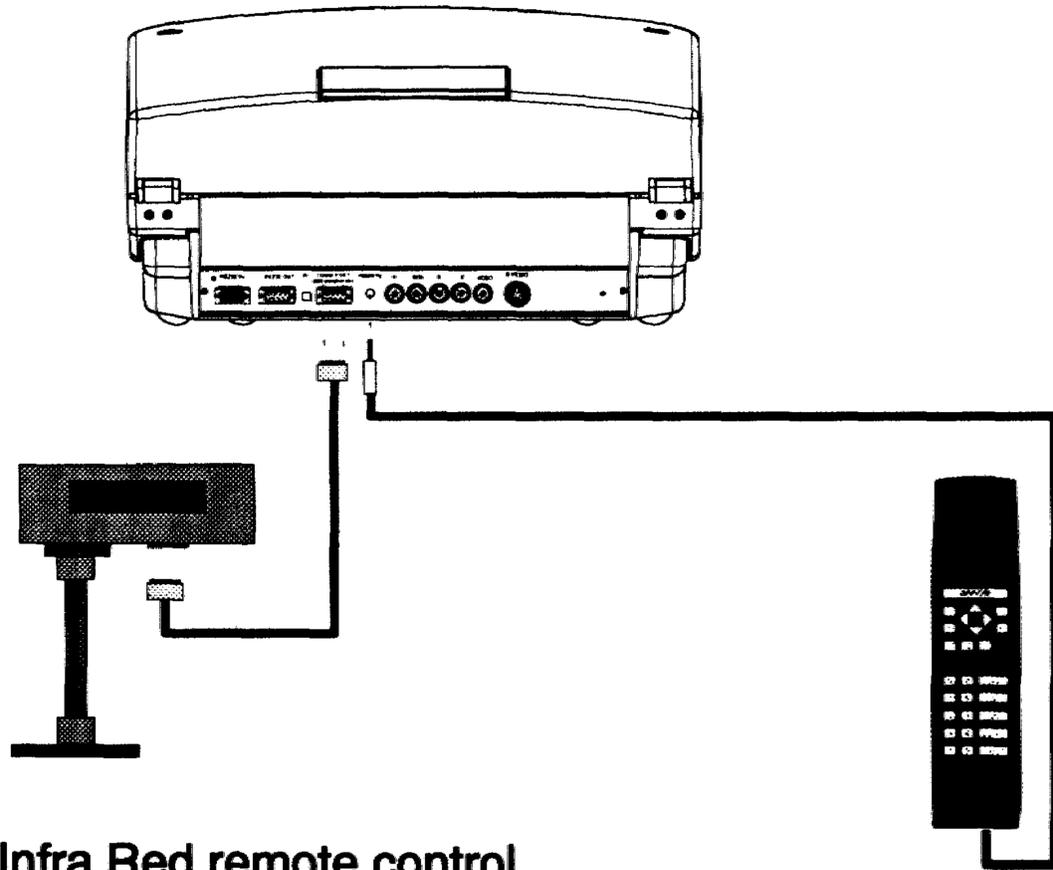
Transmitter RCU (remote control unit)

79 1664

Parts listing Transmitter RCU 79 1664 (RCU with Joy stick)

SIT.	ITEM NO.	DESCRIPTION	QUANTITY	SIT.	ITEM NO.	DESCRIPTION	QUANTITY
1000	R3615075	SCR HILO_P 3.2X 8.5HS B	1	R 5	P200001R#	CE H 1E J 0W12 1206	1
9000	R593540	BAG PE 85X270	1	R 6	P200001R#	CE H 1E J 0W12 1206	1
7000	R5975045	LFLT RCU700 TX	1	R 7	P200001R#	CE H 1E J 0W12 1206	1
5010	R722310	HSG PJ49 TX2 CVR DN	1	R 8	P200065R#	CE H470E J 0W12 1206	1
5020	R722311	HSG PJ49 TX2 CVR BAT	1	R 9	P200121R#	CE H100K J 0W12 1206	1
5030	R722312	HSG PJ49 TX2 WDW IR	1	R 10	P200099R#	CE H 12K J 0W12 1206	1
5021	R722382	HSG PJ49 TX2 LFLT WDW	1	R 11	P200049R#	CE H100E J 0W12 1206	1
5000	R722686	HSG PJ49 TX2 JOY CVR UP	1	R 12	P200041R#	CE H 47E J 0W12 1206	1
4000	R722689	SW KYBD PJ53 TX JOY V700	1	R 13	P200083R#	CE H 2K7 J 0W12 1206	1
4010	R722690	HSG PJ53 TX2 JOY FOIL	1	R 14	P200095R#	CE H 8K2 J 0W12 1206	1
C 1	P210056C#	COG MU 100P F 50 0805	1	R 15	P200121R#	CE H100K J 0W12 1206	1
C 2	R1111355C	EL AX1000M M 10E9 85	1	R 16	P200676R#	CE H 10M K 0W12 1206	1
C 3	P212001C#	TA 2M2M 20 3528	1	R 17	P200105R#	CE H 22K J 0W12 1206	1
C 4	P210147C#	COG MU 2N7J 50 1206	1	R 18	P201063R#	CE H100E F 0W1 0805	1
D 1	R1316666D	O LTE5208C T IR	1	R 19	P201089R#	CE H 1K2 F 0W1 0805	1
D 2	R1316666D	O LTE5208C T IR	1	R 20	P201109R#	CE H 8K2 F 0W1 0805	1
D 3	R1316666D	O LTE5208C T IR	1	R 21	P201111R#	CE H 10K F 0W1 0805	1
D 4	R1316666D	O LTE5208C T IR	1	R 87	P200063R#	CE H390E J 0W12 1206	1
D 5	R1316666D	O LTE5208C T IR	1	R 88	P200063R#	CE H390E J 0W12 1206	1
D 6	R1316666D	O LTE5208C T IR	1	R 89	P200063R#	CE H390E J 0W12 1206	1
D 7	P234062D#	LED LYS260 YEL SOT23	1	R101	P200063R#	CE H390E J 0W12 1206	1
D 8	P234062D#	LED LYS260 YEL SOT23	1	W	R348100WU	JUMP 0,6	1
D 9	P234062D#	LED LYS260 YEL SOT23	1				
D 10	P234062D#	LED LYS260 YEL SOT23	1				
D 11	P234062D#	LED LYS260 YEL SOT23	1				
D 12	P234062D#	LED LYS260 YEL SOT23	1				
D 13	P234062D#	LED LYS260 YEL SOT23	1				
D 14	P234062D#	LED LYS260 YEL SOT23	1				
D 15	P234062D#	LED LYS260 YEL SOT23	1				
D 16	P234062D#	LED LYS260 YEL SOT23	1				
D 17	P234062D#	LED LYS260 YEL SOT23	1				
D 18	P234062D#	LED LYS260 YEL SOT23	1				
D 19	R131662D	LED D3 T RD	1				
D 20	P234205D#	BAT54C SCH SOT23	1				
D 21	P234205D#	BAT54C SCH SOT23	1				
D 22	P234099D#	4148 R DMMELF	1				
D 23	P234099D#	4148 R DMMELF	1				
I 1	R137371U	1250 SAA DIP24 P	1				
J	R313196J	BAT WS P 2 T-TYPE 9V	1				
J 6	B338800J	PHN FBS D 3.5MON P	1				
PC	R780456	PCD#PJ53 V701 TX	1				
Q 1	P232122Q#	BCX56 N P SOT89	1				
Q 2	P232122Q#	BCX56 N P SOT89	1				
Q 3	P232122Q#	BCX56 N P SOT89	1				
Q 4	P232026Q#	BC817-40 N SS SOT23	1				
Q 5	P232026Q#	BC817-40 N SS SOT23	1				
Q 6	P232026Q#	BC817-40 N SS SOT23	1				
Q 7	P232046Q#	BSS123 F SS SOT23	1				
Q 8	P232050Q#	BC857B P SS SOT23	1				
Q 9	P232050Q#	BC857B P SS SOT23	1				
R 1	P200103R#	CE H 18K J 0W12 1206	1				
R 2	P200109R#	CE H 33K J 0W12 1206	1				
R 3	P200023R#	CE H 8E2 J 0W12 1206	1				
R 4	P200073R#	CE H 1K J 0W12 1206	1				

Wired remote control



Infra Red remote control

