RANGEMASTER SYSTEMS

Rangemaster TXTIMER
Remote control for TIMER timing system
User manual

Order code: TXTIMER
Revision Date: 28.01.2022

PROFESSIONAL SHOOTING GROUND AUTOMATION

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This unit has been carefully produced for / by:

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1. DESCRIPTION OF THE UNIT

Rangemaster TXTIMER is a remote control for TIMER - an electronic timing system to control preparation time limits during ISSF finals and shoot-offs.

1.1 FEATURES

- 8 Channels

- External antenna included

- Extended temperature range: -30 ° C to + 60 ° C

- High quality IP 65 enclosure

- High quality internal buttons protected by self-adhesive protective plastic keypad

- Power supply via 2xCR2032 (included)

1.2 DISCIPLINES

All ISSF disciplines

1.3 TECHNICAL DATA

Power Input:	Power supply via 2xCR2032
Power consumption:	< 100 mW
Operation temperature:	-30 ° C to + 60 ° C
IP	IP65
Dimensions:	Height: 11.5cm (+8cm antenna), width: 6.5cm, depth: 2.5cm
Weight:	140 gr
Frequency:	433MHz
Type of modulation:	FSK
Baud rate:	2 kBd
Max. permitted voltage:	24 V
Max. permitted current:	1,0 A

1.4 OPTIONAL ACCESSORIES

Timer

Electronic timing system   TIMER

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2. OPERATING

2.1 FUNCTIONALITY

TXTIMER remote control can be used for controlling TIMER electronic timing system only:

Button	Description
30	Sets the timer at 30 seconds
15	Sets the timer at 15 seconds
12	Sets the timer at 12 seconds
10	Sets the timer at 10 seconds
START	Activates the timer. Timer starts to countdown.
STOP	Stops the timer
PAUSE	Pauses the countdown
CONTINUE	Continues the countdown

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2.2 OPENING/CLOSING THE ENCLOSURE

To open the enclosure unscrew 4 screws. They are covered with the rubber part (decorative seal). That is why first move the rubber part up to be able to unscrew and open the enclosure.

While closing the enclosure take care that the decorative seal is closed correctly.

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2.4 SETTINGS

To enter settings mode insert the jumper to the 2-pin connector (BYPAS) on the right side from the DIP-switch

LED2 placed on the PCB inside of TXTIMER will turn on.

To send commands to the Timer you should make 4 settings:

- high byte of SGC (refer to section 2.4.1)
- low byte of SGC
- timer number.
- layout number

2.4.1 SETTING THE SHOOTING GROUND CODE (SGC)

In order to avoid the possibility that Rangemaster devices might be controlled by someone else with the similar remote control the Shooting Ground Code (SGC) is being set. SGC is a 4 digit code set to the device (in this case to transmitter and timer) which allows to prevent unnecessary use by similar transmitters (not belonging to this shooting ground). In this case if the timer and transmitter do not have the same code, they will not work in tandem even if they have the same channel set. SGC is a 4 bite secret code which encrypts the transmission which is counterchecked by the corresponding timer. If codes in timer and transmitter do not match timer will not respond to commands.

1. Open the TXTIMER transmitter enclosure (refer to section 2.2)

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2. Insert the jumper to the 2-pin connector (BYPAS) on the right side from the DIP-switch

3. Set the code for the lower byte of SGC, and press A button on the front of transmitter. The red lamp on the upper left corner will blink once. Then set the code for the higher byte of the SGC and press C button. The red lamp on the upper left corner will blink twice.

To be able to set the address use the DIP switch placed on the PCB inside the enclosure.
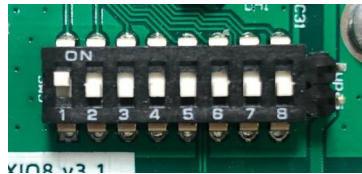
To set the code please use the address table (refer to section 2.4.4). E.g. you use **B0BA** code. First set first 2 digits (high byte of SGC) – **B0**. In accordance to address table this combination equals channel 176:

Channel	1	2	3	4	5	6	7	8	SGC (first or second part)	
176	OFF	OFF	OFF	OFF	ON	ON	OFF	ON	B	0

It means switches 1,2,3,4,7 go down and 5,6,8 up:

To program this combination press A button on the front of the remote control. The red lamp on the upper left corner will blink once.

Second 2 digits (low byte of SGC) – **BA** combination equals channel 186:

Channel	1	2	3	4	5	6	7	8	SGC (first or second part)	
186	OFF	ON	OFF	ON	ON	ON	OFF	ON	B	A

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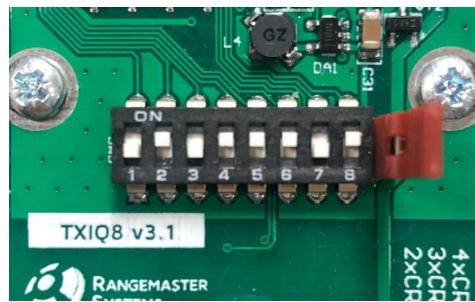
It means switches 1,3,7 go down and 2,4,5,6,8 up:

To program second combination press C button on the front of the remote control. The red lamp on the upper left corner will blink twice.

2.4.2 SETTING THE TIMER ADDRESS

To make the remote control compatible with certain timer use the DIP switch on the PCB inside the enclosure. They both should be set to the same channel (have one timer number). Possible channels are 1- 8.

1. Make sure the jumper is set to the 2-pin connector (BYPAS) on the right side from the DIP-switch

2. Set the channel on the DIP switch in accordance to the address table (refer to section 2.4.4) and press E button on TXTIMER remote control. The red lamp on the upper left corner will blink thrice.

2.4.3 SETTING THE LAYOUT ADDRESS

To make the remote control compatible with certain layout use the DIP switch placed on the PCB inside the enclosure. They both should be set to the same channel (have one layout address).

1. Remove the jumper

2. Set the channel on the DIP switch in accordance to the address table (refer to section 2.4.4).

NOTE: All layouts should have different channels!

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2.4.4 ADDRESS TABLE

Channel	DIP switch								SGC (first or second part)	
	1	2	3	4	5	6	7	8		
00	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	0	0
01	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	0	1
02	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	0	2
03	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	0	3
04	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	0	4
05	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF	0	5
06	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF	0	6
07	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	0	7
08	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	0	8
09	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF	0	9
10	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF	0	A
11	ON	ON	OFF	ON	OFF	OFF	OFF	OFF	0	B
12	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF	0	C
13	ON	OFF	ON	ON	OFF	OFF	OFF	OFF	0	D
14	OFF	ON	ON	ON	OFF	OFF	OFF	OFF	0	E
15	ON	ON	ON	ON	OFF	OFF	OFF	OFF	0	F
16	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	1	0
17	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF	1	1
18	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF	1	2
19	ON	ON	OFF	OFF	ON	OFF	OFF	OFF	1	3
20	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF	1	4
21	ON	OFF	ON	OFF	ON	OFF	OFF	OFF	1	5
22	OFF	ON	ON	OFF	ON	OFF	OFF	OFF	1	6
23	ON	ON	ON	OFF	ON	OFF	OFF	OFF	1	7
24	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF	1	8
25	ON	OFF	OFF	ON	ON	OFF	OFF	OFF	1	9
26	OFF	ON	OFF	ON	ON	OFF	OFF	OFF	1	A
27	ON	ON	OFF	ON	ON	OFF	OFF	OFF	1	B
28	OFF	OFF	ON	ON	ON	OFF	OFF	OFF	1	C
29	ON	OFF	ON	ON	ON	OFF	OFF	OFF	1	D
30	OFF	ON	ON	ON	ON	OFF	OFF	OFF	1	E
31	ON	ON	ON	ON	ON	OFF	OFF	OFF	1	F

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32	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	2	0
33	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF	2	1
34	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF	2	2
35	ON	ON	OFF	OFF	OFF	ON	OFF	OFF	2	3
36	OFF	OFF	ON	OFF	OFF	ON	OFF	OFF	2	4
37	ON	OFF	ON	OFF	OFF	ON	OFF	OFF	2	5
38	OFF	ON	ON	OFF	OFF	ON	OFF	OFF	2	6
39	ON	ON	ON	OFF	OFF	ON	OFF	OFF	2	7
40	OFF	OFF	OFF	ON	OFF	ON	OFF	OFF	2	8
41	ON	OFF	OFF	ON	OFF	ON	OFF	OFF	2	9
42	OFF	ON	OFF	ON	OFF	ON	OFF	OFF	2	A
43	ON	ON	OFF	ON	OFF	ON	OFF	OFF	2	B
44	OFF	OFF	ON	ON	OFF	ON	OFF	OFF	2	C
45	ON	OFF	ON	ON	OFF	ON	OFF	OFF	2	D
46	OFF	ON	ON	ON	OFF	ON	OFF	OFF	2	E
47	ON	ON	ON	ON	OFF	ON	OFF	OFF	2	F
48	OFF	OFF	OFF	OFF	ON	ON	OFF	OFF	3	0
49	ON	OFF	OFF	OFF	ON	ON	OFF	OFF	3	1
50	OFF	ON	OFF	OFF	ON	ON	OFF	OFF	3	2
51	ON	ON	OFF	OFF	ON	ON	OFF	OFF	3	3
52	OFF	OFF	ON	OFF	ON	ON	OFF	OFF	3	4
53	ON	OFF	ON	OFF	ON	ON	OFF	OFF	3	5
54	OFF	ON	ON	OFF	ON	ON	OFF	OFF	3	6
55	ON	ON	ON	OFF	ON	ON	OFF	OFF	3	7
56	OFF	OFF	OFF	ON	ON	ON	OFF	OFF	3	8
57	ON	OFF	OFF	ON	ON	ON	OFF	OFF	3	9
58	OFF	ON	OFF	ON	ON	ON	OFF	OFF	3	A
59	ON	ON	OFF	ON	ON	ON	OFF	OFF	3	B
60	OFF	OFF	ON	ON	ON	ON	OFF	OFF	3	C
61	ON	OFF	ON	ON	ON	ON	OFF	OFF	3	D
62	OFF	ON	ON	ON	ON	ON	OFF	OFF	3	E
63	ON	ON	ON	ON	ON	ON	OFF	OFF	3	F
64	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF	4	0
65	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF	4	1
66	OFF	ON	OFF	OFF	OFF	OFF	ON	OFF	4	2

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67	ON	ON	OFF	OFF	OFF	OFF	ON	OFF	4	3
68	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF	4	4
69	ON	OFF	ON	OFF	OFF	OFF	ON	OFF	4	5
70	OFF	ON	ON	OFF	OFF	OFF	ON	OFF	4	6
71	ON	ON	ON	OFF	OFF	OFF	ON	OFF	4	7
72	OFF	OFF	OFF	ON	OFF	OFF	ON	OFF	4	8
73	ON	OFF	OFF	ON	OFF	OFF	ON	OFF	4	9
74	OFF	ON	OFF	ON	OFF	OFF	ON	OFF	4	A
75	ON	ON	OFF	ON	OFF	OFF	ON	OFF	4	B
76	OFF	OFF	ON	ON	OFF	OFF	ON	OFF	4	C
77	ON	OFF	ON	ON	OFF	OFF	ON	OFF	4	D
78	OFF	ON	ON	ON	OFF	OFF	ON	OFF	4	E
79	ON	ON	ON	ON	OFF	OFF	ON	OFF	4	F
80	OFF	OFF	OFF	OFF	ON	OFF	ON	OFF	5	0
81	ON	OFF	OFF	OFF	ON	OFF	ON	OFF	5	1
82	OFF	ON	OFF	OFF	ON	OFF	ON	OFF	5	2
83	ON	ON	OFF	OFF	ON	OFF	ON	OFF	5	3
84	OFF	OFF	ON	OFF	ON	OFF	ON	OFF	5	4
85	ON	OFF	ON	OFF	ON	OFF	ON	OFF	5	5
86	OFF	ON	ON	OFF	ON	OFF	ON	OFF	5	6
87	ON	ON	ON	OFF	ON	OFF	ON	OFF	5	7
88	OFF	OFF	OFF	ON	ON	OFF	ON	OFF	5	8
89	ON	OFF	OFF	ON	ON	OFF	ON	OFF	5	9
90	OFF	ON	OFF	ON	ON	OFF	ON	OFF	5	A
91	ON	ON	OFF	ON	ON	OFF	ON	OFF	5	B
92	OFF	OFF	ON	ON	ON	OFF	ON	OFF	5	C
93	ON	OFF	ON	ON	ON	OFF	ON	OFF	5	D
94	OFF	ON	ON	ON	ON	OFF	ON	OFF	5	E
95	ON	ON	ON	ON	ON	OFF	ON	OFF	5	F
96	OFF	OFF	OFF	OFF	OFF	ON	ON	OFF	6	0
97	ON	OFF	OFF	OFF	OFF	ON	ON	OFF	6	1
98	OFF	ON	OFF	OFF	OFF	ON	ON	OFF	6	2
99	ON	ON	OFF	OFF	OFF	ON	ON	OFF	6	3
100	OFF	OFF	ON	OFF	OFF	ON	ON	OFF	6	4
101	ON	OFF	ON	OFF	OFF	ON	ON	OFF	6	5

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Rangemaster TXTIMER – remote control for TIMER timing system

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Channel	1	2	3	4	5	6	7	8	SGC (first or second part)	
102	OFF	ON	ON	OFF	OFF	ON	ON	OFF	6	6
103	ON	ON	ON	OFF	OFF	ON	ON	OFF	6	7
104	OFF	OFF	OFF	ON	OFF	ON	ON	OFF	6	8
105	ON	OFF	OFF	ON	OFF	ON	ON	OFF	6	9
106	OFF	ON	OFF	ON	OFF	ON	ON	OFF	6	A
107	ON	ON	OFF	ON	OFF	ON	ON	OFF	6	B
108	OFF	OFF	ON	ON	OFF	ON	ON	OFF	6	C
109	ON	OFF	ON	ON	OFF	ON	ON	OFF	6	D
110	OFF	ON	ON	ON	OFF	ON	ON	OFF	6	E
111	ON	ON	ON	ON	OFF	ON	ON	OFF	6	F
112	OFF	OFF	OFF	OFF	ON	ON	ON	OFF	7	0
113	ON	OFF	OFF	OFF	ON	ON	ON	OFF	7	1
114	OFF	ON	OFF	OFF	ON	ON	ON	OFF	7	2
115	ON	ON	OFF	OFF	ON	ON	ON	OFF	7	3
116	OFF	OFF	ON	OFF	ON	ON	ON	OFF	7	4
117	ON	OFF	ON	OFF	ON	ON	ON	OFF	7	5
118	OFF	ON	ON	OFF	ON	ON	ON	OFF	7	6
119	ON	ON	ON	OFF	ON	ON	ON	OFF	7	7
120	OFF	OFF	OFF	ON	ON	ON	ON	OFF	7	8
121	ON	OFF	OFF	ON	ON	ON	ON	OFF	7	9
122	OFF	ON	OFF	ON	ON	ON	ON	OFF	7	A
123	ON	ON	OFF	ON	ON	ON	ON	OFF	7	B
124	OFF	OFF	ON	ON	ON	ON	ON	OFF	7	C
125	ON	OFF	ON	ON	ON	ON	ON	OFF	7	D
126	OFF	ON	ON	ON	ON	ON	ON	OFF	7	E
127	ON	ON	ON	ON	ON	ON	ON	OFF	7	F
128	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	8	0
129	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON	8	1
130	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON	8	2
131	ON	ON	OFF	OFF	OFF	OFF	OFF	ON	8	3
132	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON	8	4
133	ON	OFF	ON	OFF	OFF	OFF	OFF	ON	8	5
134	OFF	ON	ON	OFF	OFF	OFF	OFF	ON	8	6
135	ON	ON	ON	OFF	OFF	OFF	OFF	ON	8	7
136	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON	8	8

Channel	1	2	3	4	5	6	7	8	SGC (first or second part)	
137	ON	OFF	OFF	ON	OFF	OFF	OFF	ON	8	9
138	OFF	ON	OFF	ON	OFF	OFF	OFF	ON	8	A
139	ON	ON	OFF	ON	OFF	OFF	OFF	ON	8	B
140	OFF	OFF	ON	ON	OFF	OFF	OFF	ON	8	C
141	ON	OFF	ON	ON	OFF	OFF	OFF	ON	8	D
142	OFF	ON	ON	ON	OFF	OFF	OFF	ON	8	E
143	ON	ON	ON	ON	OFF	OFF	OFF	ON	8	F
144	OFF	OFF	OFF	OFF	ON	OFF	OFF	ON	9	0
145	ON	OFF	OFF	OFF	ON	OFF	OFF	ON	9	1
146	OFF	ON	OFF	OFF	ON	OFF	OFF	ON	9	2
147	ON	ON	OFF	OFF	ON	OFF	OFF	ON	9	3
148	OFF	OFF	ON	OFF	ON	OFF	OFF	ON	9	4
149	ON	OFF	ON	OFF	ON	OFF	OFF	ON	9	5
150	OFF	ON	ON	OFF	ON	OFF	OFF	ON	9	6
151	ON	ON	ON	OFF	ON	OFF	OFF	ON	9	7
152	OFF	OFF	OFF	ON	ON	OFF	OFF	ON	9	8
153	ON	OFF	OFF	ON	ON	OFF	OFF	ON	9	9
154	OFF	ON	OFF	ON	ON	OFF	OFF	ON	9	A
155	ON	ON	OFF	ON	ON	OFF	OFF	ON	9	B
156	OFF	OFF	ON	ON	ON	OFF	OFF	ON	9	C
157	ON	OFF	ON	ON	ON	OFF	OFF	ON	9	D
158	OFF	ON	ON	ON	ON	OFF	OFF	ON	9	E
159	ON	ON	ON	ON	ON	OFF	OFF	ON	9	F
160	OFF	OFF	OFF	OFF	OFF	ON	OFF	ON	A	0
161	ON	OFF	OFF	OFF	OFF	ON	OFF	ON	A	1
162	OFF	ON	OFF	OFF	OFF	ON	OFF	ON	A	2
163	ON	ON	OFF	OFF	OFF	ON	OFF	ON	A	3
164	OFF	OFF	ON	OFF	OFF	ON	OFF	ON	A	4
165	ON	OFF	ON	OFF	OFF	ON	OFF	ON	A	5
166	OFF	ON	ON	OFF	OFF	ON	OFF	ON	A	6
167	ON	ON	ON	OFF	OFF	ON	OFF	ON	A	7
168	OFF	OFF	OFF	ON	OFF	ON	OFF	ON	A	8
169	ON	OFF	OFF	ON	OFF	ON	OFF	ON	A	9
170	OFF	ON	OFF	ON	OFF	ON	OFF	ON	A	A
171	ON	ON	OFF	ON	OFF	ON	OFF	ON	A	B

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172	OFF	OFF	ON	ON	OFF	ON	OFF	ON	A	C
173	ON	OFF	ON	ON	OFF	ON	OFF	ON	A	D
174	OFF	ON	ON	ON	OFF	ON	OFF	ON	A	E
175	ON	ON	ON	ON	OFF	ON	OFF	ON	A	F
176	OFF	OFF	OFF	OFF	ON	ON	OFF	ON	B	0
177	ON	OFF	OFF	OFF	ON	ON	OFF	ON	B	1
178	OFF	ON	OFF	OFF	ON	ON	OFF	ON	B	2
179	ON	ON	OFF	OFF	ON	ON	OFF	ON	B	3
180	OFF	OFF	ON	OFF	ON	ON	OFF	ON	B	4
181	ON	OFF	ON	OFF	ON	ON	OFF	ON	B	5
182	OFF	ON	ON	OFF	ON	ON	OFF	ON	B	6
183	ON	ON	ON	OFF	ON	ON	OFF	ON	B	7
184	OFF	OFF	OFF	ON	ON	ON	OFF	ON	B	8
185	ON	OFF	OFF	ON	ON	ON	OFF	ON	B	9
186	OFF	ON	OFF	ON	ON	ON	OFF	ON	B	A
187	ON	ON	OFF	ON	ON	ON	OFF	ON	B	B
188	OFF	OFF	ON	ON	ON	ON	OFF	ON	B	C
189	ON	OFF	ON	ON	ON	ON	OFF	ON	B	D
190	OFF	ON	ON	ON	ON	ON	OFF	ON	B	E
191	ON	ON	ON	ON	ON	ON	OFF	ON	B	F
192	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	C	0
193	ON	OFF	OFF	OFF	OFF	OFF	ON	ON	C	1
194	OFF	ON	OFF	OFF	OFF	OFF	ON	ON	C	2
195	ON	ON	OFF	OFF	OFF	OFF	ON	ON	C	3
196	OFF	OFF	ON	OFF	OFF	OFF	ON	ON	C	4
197	ON	OFF	ON	OFF	OFF	OFF	ON	ON	C	5
198	OFF	ON	ON	OFF	OFF	OFF	ON	ON	C	6
199	ON	ON	ON	OFF	OFF	OFF	ON	ON	C	7
200	OFF	OFF	OFF	ON	OFF	OFF	ON	ON	C	8
201	ON	OFF	OFF	ON	OFF	OFF	ON	ON	C	9
202	OFF	ON	OFF	ON	OFF	OFF	ON	ON	C	A
203	ON	ON	OFF	ON	OFF	OFF	ON	ON	C	B
204	OFF	OFF	ON	ON	OFF	OFF	ON	ON	C	C
205	ON	OFF	ON	ON	OFF	OFF	ON	ON	C	D
206	OFF	ON	ON	ON	OFF	OFF	ON	ON	C	E

Channel	1	2	3	4	5	6	7	8	SGC (first or second part)	
207	ON	ON	ON	ON	OFF	OFF	ON	ON	C	F
208	OFF	OFF	OFF	OFF	ON	OFF	ON	ON	D	0
209	ON	OFF	OFF	OFF	ON	OFF	ON	ON	D	1
210	OFF	ON	OFF	OFF	ON	OFF	ON	ON	D	2
211	ON	ON	OFF	OFF	ON	OFF	ON	ON	D	3
212	OFF	OFF	ON	OFF	ON	OFF	ON	ON	D	4
213	ON	OFF	ON	OFF	ON	OFF	ON	ON	D	5
214	OFF	ON	ON	OFF	ON	OFF	ON	ON	D	6
215	ON	ON	ON	OFF	ON	OFF	ON	ON	D	7
216	OFF	OFF	OFF	ON	ON	OFF	ON	ON	D	8
217	ON	OFF	OFF	ON	ON	OFF	ON	ON	D	9
218	OFF	ON	OFF	ON	ON	OFF	ON	ON	D	A
219	ON	ON	OFF	ON	ON	OFF	ON	ON	D	B
220	OFF	OFF	ON	ON	ON	OFF	ON	ON	D	C
221	ON	OFF	ON	ON	ON	OFF	ON	ON	D	D
222	OFF	ON	ON	ON	ON	OFF	ON	ON	D	E
223	ON	ON	ON	ON	ON	OFF	ON	ON	D	F
224	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	E	0
225	ON	OFF	OFF	OFF	OFF	ON	ON	ON	E	1
226	OFF	ON	OFF	OFF	OFF	ON	ON	ON	E	2
227	ON	ON	OFF	OFF	OFF	ON	ON	ON	E	3
228	OFF	OFF	ON	OFF	OFF	ON	ON	ON	E	4
229	ON	OFF	ON	OFF	OFF	ON	ON	ON	E	5
230	OFF	ON	ON	OFF	OFF	ON	ON	ON	E	6
231	ON	ON	ON	OFF	OFF	ON	ON	ON	E	7
232	OFF	OFF	OFF	ON	OFF	ON	ON	ON	E	8
233	ON	OFF	OFF	ON	OFF	ON	ON	ON	E	9
234	OFF	ON	OFF	ON	OFF	ON	ON	ON	E	A
235	ON	ON	OFF	ON	OFF	ON	ON	ON	E	B
236	OFF	OFF	ON	ON	OFF	ON	ON	ON	E	C
237	ON	OFF	ON	ON	OFF	ON	ON	ON	E	D
238	OFF	ON	ON	ON	OFF	ON	ON	ON	E	E
239	ON	ON	ON	ON	OFF	ON	ON	ON	E	F
240	OFF	OFF	OFF	OFF	ON	ON	ON	ON	F	0
241	ON	OFF	OFF	OFF	ON	ON	ON	ON	F	1

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Channel	1	2	3	4	5	6	7	8	SGC (first or second part)	
242	OFF	ON	OFF	OFF	ON	ON	ON	ON	F	2
243	ON	ON	OFF	OFF	ON	ON	ON	ON	F	3
244	OFF	OFF	ON	OFF	ON	ON	ON	ON	F	4
245	ON	OFF	ON	OFF	ON	ON	ON	ON	F	5
246	OFF	ON	ON	OFF	ON	ON	ON	ON	F	6
247	ON	ON	ON	OFF	ON	ON	ON	ON	F	7
248	OFF	OFF	OFF	ON	ON	ON	ON	ON	F	8
249	ON	OFF	OFF	ON	ON	ON	ON	ON	F	9
250	OFF	ON	OFF	ON	ON	ON	ON	ON	F	A
251	ON	ON	OFF	ON	ON	ON	ON	ON	F	B
252	OFF	OFF	ON	ON	ON	ON	ON	ON	F	C
253	ON	OFF	ON	ON	ON	ON	ON	ON	F	D
254	OFF	ON	ON	ON	ON	ON	ON	ON	F	E
255	ON	ON	ON	ON	ON	ON	ON	ON	F	F

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2.5 BATTERIES

To change the batteries, open the enclosure (refer to 2.2), remove discharged batteries and insert new ones. For the remote control use batteries **2 x CR2032.**

In order to make sure that contact of the batteries is good, every time when changing the batteries, please push the connecting parts of the battery holder inside:

To check the batteries voltage, please use voltmeter and test the battery level while pushing the button. If it is lower than 4V, please exchange the battery!

NOTE: Take care about the polarity when inserting the batteries!

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3. LIMITED WARRANTY

Rangemaster Systems gives a limited warranty on this products against defects in material or workmanship for time of 12 months.

This period starts upon receipt of the product.

Rangemaster Systems will not be liable for loss of data or loss of profit or turnover due to a defect.

The warranty only includes repair or replacement of defect components, which failed during daily use. "Daily use" has to be read as: Use in accordance to specifications and in intended use.

General information & warranty exclusions: Damages due to water, moisture, vandalism, lightening, surges over power line or power supply, usage outside of specifications, dropping the product, excessive heat or cold (both for operation and storage) damages because of dropping the product, unnecessary force, damages because of empty or discharged batteries or accumulators are warranty exclusions and do not entitle you for a free of charge repair or replacement.

In case of chip card readers with contacts are built in the product. Items or dirt inside the reader are warranty exclusions.

In case of touch screens are built in the product: Damages due to improper use (using something else than your finger) causing scratches or punctures on the screen or on the touch surface will not be covered with warranty.

Please ask for a RMA number by sending an email to support@rangemaster.at

Add invoice number, date of invoice and serial number of product.

Also add a detailed description of errors.

Return unit for repair to:

Maxima WarenhandelsGmbH

© Rangemaster Systems – Ext. Storage

8082 Weissenbach 9
Austria/Europe

Show your RMA number of the box. Send us a tracking link after returning the product to us.

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4. RMA FORM

To:

Maxima WarenhandelsGmbH

© Rangemaster Systems – Ext. Storage

8082 Weissenbach 9

Austria/Europe

RMA:_____   Date:_____/_____/_____

Date of purchase	
Supplied by	
Invoice number (Please attach copy of invoice)	
Product serial number	
Description of error	

Please return to:

Name	
Club	
Address 1	
Address 2	
Zip code	
City/Town	
Country	
Phone	
E-Mail	

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