



**RadioShack®**

# Service Manual

60-195

**Hummer H2**  
**Catalog Number : 60-195**

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## SPECIFICATIONS

Class or equipment	Radio control
Function	forward; backward; stop; left; right; forward left; forward right; backward left; backward right; and light
<u>Test condition :</u>	
Supply voltage	7.2V to car, 9V to transmitter
Test frequency	27.095 MHz / 27.145 MHz / 27.195 MHz
Modulation	Digital pulse mod. 90%
Test site	Flat concrete floor

<u>RECEIVER</u>	<u>UNIT</u>	<u>NOMINAL</u>	<u>LIMIT</u>
Sensitivity	db	28	32
Frequency	MHz	27.095/27.145/27.195	+/- 0.5
Operating voltage of car	V	< 6.2	6.5
Car standby current (and lights)	mA	138	150
Steering motor current ( Instant )	mA	—	500
Driving motor and light current (For wheel)	mA	3500	4000
Operating temperature	°C	25	+40, -10
Speed of car for wheels	FT/MIN	1000	950
Battery life (3000 mAh)	Minutes	15	12
Battery life (2200 mAh)	Minutes	12	8
Control distance ( Outdoor )	Ft	150	150
Steering diameter left / right	Ft	12	18
Max climbing angle	Degree	35	35
Battery surface temperature	Degree C	65	71

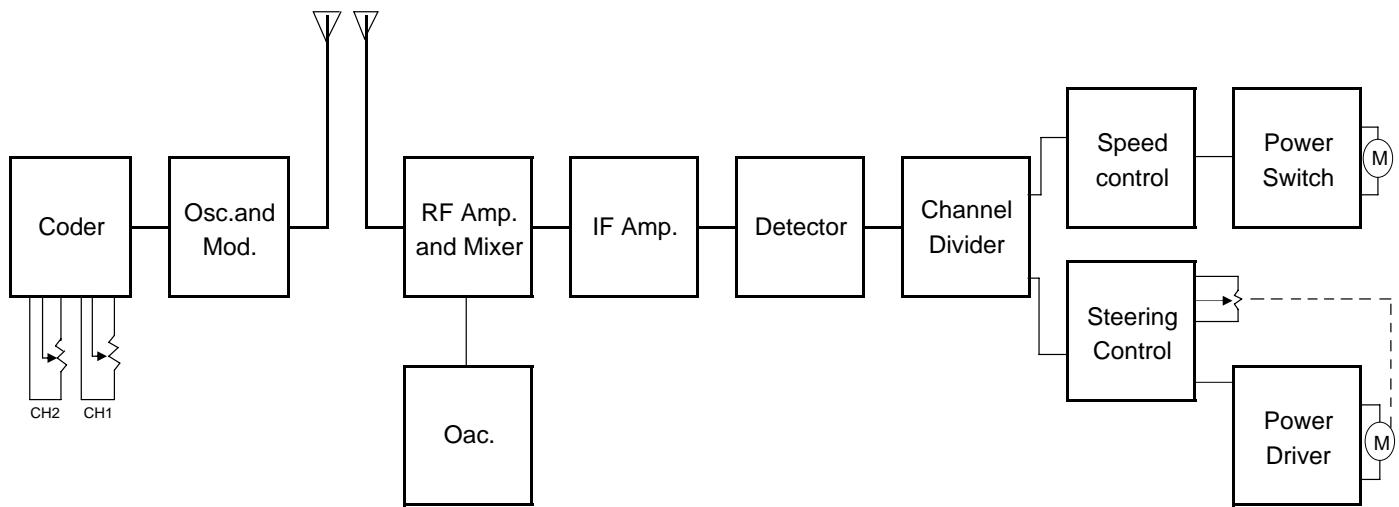
## TRANSMITTER

Frequency	MHz	27.095/27.145/27.195	+/-0.005%
Current drain of 9V	mA	25	30
Modulation deep	%	90	70
Operating voltage	V	< 6	6
Operating temperature	°C	25	+50, -10
Battery life	Hour	8	5

**NOTE:** Nominal specs represent the design specs. All units should approximate these specifications. Some units may exceed these specs, while others might drop slightly below them. Limit specs represent the absolute worst condition that might still be considered acceptable. A unit should NEVER fail to meet limit specs.

# BLOCK DIAGRAMS

## RECEIVER



## TROUBLESHOOTING

Trouble	Possible Causes	Solutions
Not Functioning	Low battery voltage Poor connector Poor soldering on motor terminals Corroded ON/OFF switch	Replace batteries Clean plug battery connector Check motor and terminals Clean or replace
Extremely Short Control Range	Low battery voltage Poor soldering on antenna Poor soldering on receiver Antenna wire	Replace batteries Check soldering for antenna Check soldering for receiver Antenna

## MECHANICAL PARTS LISTS

### Hummer H2

Ref. No.	Description	RS Part No.	Mfr's Part No.
1	Left Top Direct Lamp		001-0975-00
2	Right Top Direct Lamp		001-1573-00
3	Top Brake Lamp		001-0977-00
4	Pack		001-1051-00
5	Luggage Rack		001-0961-00
6	Left Wiper		001-0964-00
7	Right Wiper		001-0965-00
8	Right Rear Mirror		001-0963-00
9	Stamt Pad		001-1093-00
10	Stamt Pad Board		001-1094-00
11	Left Handle		001-0969-00
12	Right Handle		001-0970-00
13	Right Stoma		001-0986-00
14	Front Cover		001-0983-00
15	Rear Top Lamp		001-0980-00
16	Rear Lamp Net		001-1685-00
17	Rear Right Stoma		001-0990-01
18	Right Rear Lamp		001-0979-01
19	Rear Wiper		001-0966-00
20	License Plate		001-0987-00
21	Rear Left Stoma		001-0989-01
22	Left Rear Lamp		001-0978-01
23	Body Rear Bumper		001-0958-01
24	Buckle		001-1686-00
25	Exhaust		001-1694-00
26	Screw 2.6x12 WT		017-2612-11
27	Screw 3x8 PT		017-3008-11
28	Screw 2.6x12 WT		017-2612-11
29	Direct Lamp		001-0974-00
30	Petrol Cover		001-1693-00
31	Rear Lamp Base Cover		001-1107-00
32	Door Handle Base		001-1572-00
33	Door Handle		001-0984-00
34	Car Body		001-0956-01
35	Screw 2x5 CB		017-2005-43
36	Left Stoma		001-0985-00
37	Left Rear Mirror		001-0962-00
38	Top Lamp		001-0976-00
39	Front Lamp Base Cover		001-1108-00
40	Right Front Lamp Base		001-0982-00
41	Left Front Lamp Base		001-0981-00
42	Right Big Lamp		001-0972-00
43	Left Big Lamp		001-0971-00
44	Body Front Bumper		001-0957-00

## MECHANICAL PARTS LISTS (CONTINUED)

Ref. No.	Description	RS Part No.	Mfr's Part No.
45	Screw 2.6x8 WT		017-2608-11
46	Front Grille		001-0959-00
47	Small Lamp		001-0973-00
48	Grille Guard		001-1092-00
49	Windshield		001-0960-00
50	Body Rear Bracket		001-0992-00
51	Body Front Bracket		001-0991-00
52	Screw 3x16 PT		017-3012-06
53	Screw 3x16 PT		017-3016-06
54	Screw 2.6x8 PT		017-2608-06
55	Screw 2.6x8 WT		017-2608-11
56	Lamp 4.5V 90 mm x 240 mm		039-0014-00
57	Screw 2.6x6 WA		017-2606-05
58	Screw 2.6x8 PT		017-2608-06
59	Screw 2.6x6 WA		017-2606-05
60	Screw 2.6x8 ST		017-2608-00
61	Screw 2.3x8 ST		017-2308-00
62	Screw 2.6x6 WA		017-2606-05
63	Screw 2.6x8 PT		017-2608-06
64	Screw 2.6x8 PT		017-2608-06
65	Balata		038-0018-00
66	Nut M.4		015-0063-00
67	Washer 105H-3		012-0105-00
68	Outer Shell Bushing		004-0070-00
69	Spotlight Right Bracket		001-1988-00
70	Forward Wheel Cover		002-1196-00
71	Track Wheel		002-0934-00
72	Wheel Bracket		002-0935-00
73	Track Wheel Shaft 4x42 mm		010-0406-01
74	Wheel Bracket Shaft 4x20 mm		010-0383-00
75	Forward Wheel		002-1197-00
76	Right Inner Shell		002-1199-00
77	Left Inner Shell		002-1198-00
78	LEFT OUTER SHELL		002-1200-00
79	Right Outer Shell		002-1201-00
80	Washer 105F-2		012-0080-00
81	Wheel Bushing		004-0068-00
82	Screw 3x8 PT		017-3008-06
83	Antenna Tube		020-0066-00
84	Rear Body Bracket		002-0400-02
85	Screw 3x12 WT		017-3012-11
86	Suspension Cylinder		002-0382-00
87	Shaft 4x34.5 mm		010-0214-00
88	Shock Spring		011-0214-00

Ref. No.	Description	RS Part No.	Mfr's Part No.
89	Suspension Lever		002-0383-00
90	Chassis Cover		002-0389-00
91	Screw 2.6x10 PT		017-2610-06
92	P.C.B. 136180B		100-0180-02
93	Screw 2.6x10 ST		017-2608-00
94	Car Body Bracket		002-0399-02
95	Screw 3x12 WT		017-3012-11
96	Screw 3x18 WT		017-3018-11
97	Suspension Bracket		002-0381-00
98	Screw 3x12 WT		017-3012-11
99	Suspension Bracket		002-0381-00
100	Rear Right Cover		002-0393-00
101	Screw 3x16 PT		017-3016-06
102	Rear Left Cover		002-0392-00
103	Volume Knob		002-0390-00
104	Shaft 3x163.5 mm		010-0498-00
105	Chassis 7.2V		002-0394-01
106	Nut M.3		015-0010-00
107	Screw 3x44 HMT		017-3044-14
108	Front Left Cover		002-0411-00
109	Screw 2.6x8 PT		017-2608-06
110	Front Right Cover		002-0412-00
111	Screw 3x40 HMT		017-3040-14
112	Battery Pitch Housing 130 mm		031-0005-00
113	Screw 3x14 BT		017-3014-07
114	Bottom Cover		002-0938-00
115	Battery Door		002-0369-00
116	Right Upper Swing Arm		002-0362-00
117	Screw 2.8x28 PBH		017-2828-27
118	Shaft 3.8x29 mm		010-0211-00
119	Screw 2.8x45 PBH		017-2845-27
120	Screw 3x12 WT		017-3012-11
121	Screw 3x10 PT		017-3010-06
122	Screw 3x20 BM		017-3020-41
123	Connect Joint Ball		002-0370-00
124	Shaft 1.95x12 mm		010-0445-00
125	Shaft 4.1x53.2 mm		010-0276-00
126	Right Gear Box		003-0188-00
127	Shaft 5x24.3 mm		010-0450-02
128	Rear Differential Gear		018-0155-00
129	Alloy Transmission Gear		018-0018-02
130	Alloy Star Gear		018-0017-01
131	Shaft 2x22 mm		010-0019-01
132	Differential Bucket		008-0310-01

Ref. No.	Description	RS Part No.	Mfr's Part No.
133	Screw 2x10 SA		017-2010-01
134	Rear Bumper		002-1086-00
135	Screw 3x12 WT		017-3012-11
136	Shaft 5x70 mm		010-0453-00
137	Oval Bush		004-0041-00
138	Spacer $\phi$ 5		015-0045-03
139	Right Lower Swing Arm		002-0363-00
140	Battery Door Knob		002-0323-00
141	Screw 2.6x10 WT		017-2610-11
142	Screw 3x8 PM		017-3008-10
143	Copper Gear 0.8x9Ex12L		018-0057-00
144	Washer 503		012-0027-00
145	Radiation Plate		013-0240-00
146	Rear Motor RS-550PC-8516		030-0077-00
147	Rear Umbrella Gear		018-0154-00
148	R2. Gear 0.8x80E		008-0215-00
149	Screw 2.6x6 ST		017-2606-00
150	Washer 106-6		012-0065-00
151	Oil-Retaining Bearing		015-0070-00
152	Shaft 5x48 mm		010-0213-01
153	R2. Shaft Spring		011-0206-00
154	Screw 3x18 WT		017-3018-11
155	Left Gear Box		003-0187-00
156	Left Lower Swing Arm		002-0361-00
157	Shaft Insert		015-0079-00
158	Washer 106		012-0079-00
159	Rear Shaft Bush		004-0018-00
160	Right Rear Swing Arm Frame		002-0378-01
161	Left Upper Swing Arm		002-0360-00
162	Left Rear Swing Arm Frame		002-0378-00
163	Differential Cover		008-0309-01
164	Spotlight Left Bracket		001-1987-00
165	Alignment Swing		003-0162-01
166	Alignment Ring		003-0161-00
167	Spring Ring		011-0099-00
168	Right Steering Wire		010-0391-01
169	Left Steering Wire		010-0390-01
170	Gear Box Upper Cover		003-0230-00
171	Gear 5. 43T		008-0185-00
172	Gear 4. 41Tx17E		008-0184-00
173	Gear 2. 68Tx10E		008-0182-00
174	Gear Box Middle Cover		003-0231-00
175	Alignment Bucket		002-0580-00
176	Variable Resistor		115-0004-00R

**MECHANICAL PARTS LISTS (CONTINUED)**

Ref. No.	Description	RS Part No.	Mfr's Part No.
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177	Screw 2x22 PB		017-2022-28
178	Alignment Base		008-0107-00
179	Shaft 1.5x7.5 mm		010-0285-00
180	Gear 3. 58Tx10E		008-0183-00
181	Shaft 1.5x12.5 mm		010-0284-00
182	Copper Gear 0.25x14Ex2.5L		018-0040-00
183	Motor GCF-131NP-12240DA		030-0033-01
184	Gear Box Lower Cover		003-0232-00
185	Screw 2x36 PB		017-2036-28
186	Shaft Spring		011-0206-00
187	Oil-Retaining Bearing		015-0070-00
188	Shaft 5x48 mm		010-0213-00
189	Washer 106A-2		012-0017-00
190	Umbrella Gear 12E		008-0138-01
191	Screw 3x12 PT		017-3012-06
192	Shaft 3.8x29 mm		010-0211-00
193	Right Upper Swing Arm		002-0362-00
194	Shaft 1.95x12 mm		010-0445-00
195	Shaft 1.95x16 mm		010-0446-00
196	Connect Joint Ball		002-0370-00
197	Shaft 4.1x53.2 mm		010-0298-00
198	Screw 2.8x28 PBH		017-2828-27
199	Screw 2.8x45 PBH		017-2845-27
200	Right Lower Swing Arm		002-0363-01
201	Right Gear Box		003-0164-00
202	Screw 2x10 SA		017-2010-01
203	Differential Cover		008-0139-01
204	Alloy Star Gear		018-0017-01
205	Shaft 2x21.4 mm		010-0484-00
206	Alloy Transmission Gear		018-0018-02
207	Differential Bucket		008-0140-01
208	Shaft 5x34.3 mm		010-0450-02
209	Oval Bush		004-0041-00
210	Spacer $\phi$ 5		015-0045-03
211	Left Gear Box		003-0163-00
212	Left Upper Swing Arm		002-0360-00
213	Left Lower Swing Arm		002-0361-00
214	Screw 3x18 WT		017-3018-11
215	Front Bumper		002-0384-01
216	Shaft Insert		015-0079-00
217	Washer 106-6		012-0065-00
218	Front Shaft Bush		004-0018-00
219	Alignment Arm		015-0062-04
220	Washer 106		012-0079-00

## MECHANICAL PARTS LISTS (CONTINUED)

Ref. No.	Description	RS Part No.	Mfr's Part No.
221	Screw 3x10.7 CHB		017-3107-28
222	Shaft 5x70 mm		010-0453-00

223	Alignment Frame		002-0364-00
224	Fastener Insert		002-0379-01
225	Screw 2.6x16 PWT		017-2616-25
226	Swing Plate		013-0119-00
227	Spotlight Housing		001-1989-00
228	Lamp 2V 50 mm x 50 mm		039-0043-00
229	Lamp 2V 50 mm x 160 mm		039-0044-00
230	Lamp 2V 50 mm x 260 mm		039-0045-00
231	Spotlight Base		001-1983-00
232	Spotlight Top		001-1984-00
233	Spotlight Bottom		001-1985-00
234	Spotlight Plate		001-1982-00
235	Spotlight Cover		001-1986-00

# MECHANICAL PARTS LISTS-CONTINUED

## TRANSMITTER

Ref. No.	Description	RS Part No.	Mfr's Part No.
1	Trundle Knob Top Cover		006-0179-00
2	Screw 3.5x10 PT		017-3510-06
3	Trundle Knob Top		006-0178-00
4	Trundle Knob		006-0153-00
5	Transmitter Cabinet		005-0051-00
6	Channel Knob		006-0069-00
7	Adjustment Spring		011-0091-00
8	Screw 1.7x4 PM		017-1704-10
9	Alignment Knob		006-0054-00
10	Trundle Stick		006-0049-00
11	Trundle Shaft		006-0058-00
12	Alignment Stick		006-0059-00
13	Trundle Bracket		006-0046-00
14	Switch Knob		006-0056-00
15	Volume F 16N5 B5K		115-0004-00
16	Trundle Cover		006-0047-00
17	Trundle Board		006-0048-00
18	Screw 2.6x8 PT		017-2608-06
19	Screw 2.6x8 WT		017-2608-11
20	Front Rear Control Plate		006-0053-00
21	Front Rear Stick		006-0052-00
22	Front Rear Cover		006-0050-00
23	Antenna		014-0035-00
24	Screw 3x8 BT		017-3008-07
25	Alignment Box		006-0044-00
26	Screw 3x10 PT		017-3010-06
27	Screw 3x10 WT		017-3010-11
28	Battery Box		006-0043-00
29	Battery Contact 9 V		013-0008-04
30	Transmitter Battery Door		005-0053-00
31	P.C.B. 136003		100-0003-00
32	Screw 2.6x8 PT		017-2608-06
33	Front Rear Board		006-0051-00
34	Screw 2.6x8 WT		017-2608-11
35	Transmitter Rear Cabinet		005-0052-00
36	Screw 3x12 PT		017-3012-06
37	Screw 2.6x6 PT		017-2606-06
38	Screw 3x10 PT		017-3010-06

# ELECTRICAL PARTS LISTS

## RECEIVER (27.145 MHz)

Ref. No.	Description	RS Part No.	Mfr's Part No.
<b>Capacitors</b>			
C1	Ceramic Cap NPO +/- 10% 50V 25 PF		104-0225-00R
C2,5,6,8,9,11,19,22,36	Ceramic Cap +/- 80% -20% 50V 0.1 uF		103-0610-00R
C3	Ceramic Cap NPO +/- 10% 50V 45 PF		104-0245-00R
C4	*Mylar Cap +/- 10% 100V 0.01 uF		105-0510-00R
C7, 12	Electrolytic Cap +/- 20% 10V 1 uF		106-0110-00R
C10	*Mylar Cap +/- 10% 100V 0.0047 uF		105-0447-00R
C13, 14	Electrolytic Cap +/- 20% 10V 470 uF		106-0347-01R
C15	Electrolytic Cap +/- 20% 10V NP 10 uF		106-0210-02R
C16, 17	Ceramic Cap +/- 10% 50V 10 PF		103-0210-00R
C20	Electrolytic Cap +/- 20% 10V 47 uF		106-0247-00R
C21	Electrolytic Cap +/- 20% 10V 33 uF		106-0233-00R
C23, 24, 25, 26	Ceramic Cap +/- 80% -20% 50V 0.02 uF		103-0520-00R
C27, 28	Ceramic Cap +/- 80% -20% 50V 0.1 uF		103-0610-00R
C29, 30	Electrolytic Cap +/- 20% 10V 100 uF		106-0310-00R
C31	Electrolytic Cap +/- 20% 10V 470 uF		103-0347-00R
C32	Electrolytic Cap +/- 20% 10V 10 uF		103-0210-00R
C33	Ceramic Cap +/- 10% 50V 100 PF		103-0310-00R
C34, 35	Ceramic Cap +/- 80% -20% 50V 0.04 uF		103-0540-00R
<b>Coil</b>			
T1	RF-Transformer S-203		108-0203-00R
T2	RF-Transformer S-362		108-0362-00R
T3	RF-Transformer S-363		108-0363-00R
L1, 3	Inductor 2.2 uH		128-0022-00R
L2	Inductor 0.1 uH		127-0001-00R
L4	Inductor 3.9 mH		127-3900-00R
<b>Diode</b>			
Z1	Zener Diode 1/2W 5.1 V		111-0051-00R
Z2	Zener Diode 1/2W 7.5 V		111-0075-00R
Z3	Zener Diode 1/2W 3.9 V		111-0039-00R
D1, 2, 3, 4, 5, 6, 7	Diode 1N 4148		111-4148-00R
D8	Diode 1N 5404		111-5404-00R
D9, 10, 11, 12,	Diode 1N 4001		111-4001-00R
<b>I.C</b>			
IC 1	Integrated Circuit SC-8802		113-8802-00R
<b>Crystal</b>			
X1	26.740 MHz		112-0026-03R
X2	26.690 MHz		112-0026-00R
X3	26.640 MHz		112-0026-02R
X4	4.19 MHz		112-0004-00R
X5	Ceramic Filter WES-N455D		131-0455-00R
<b>Jumper</b>			
J1, 4	Jumper Wire 4 mm		016-0004-00R
J2	Jumper Wire 5 mm		016-0005-00R
J3	Jumper Wire 15 mm		016-0015-00R

\*Mylar is a registered trademark of E.I. DuPont de Nemours and Company.

## ELECTRICAL PARTS LISTS- CONTINUED

### RECEIVER (27.145 MHz)

Ref. No.	Description	RS Part No.	Mfr's Part No.
<b>PCB</b>			
PE1	P.C.B. 136180C		100-0180-03R
<b>Resistor</b>			
R1	680 kohm		102-0668-00R
R2, 7, 8	47 ohm		102-0247-00R
R3, 34, 52	100 kohm		102-0610-00R
R4	4.7 kohm		102-0447-00R
R5	68 ohm		102-0268-00R
R6, 13, 48	100 ohm		102-0310-00R
R9, 16	15 kohm		102-0515-00R
R10	33 ohm		102-0233-00R
R11, 37	1 kohm		102-0410-00R
R12, 53, 54, 56	150 kohm		102-0615-00R
R14	1.8 kohm		102-0418-00R
R15	3.3 kohm		102-0433-00R
R17, 29, 40, 51	30 kohm		102-0530-00R
R18	62 kohm		102-0562-00R
R19	120 kohm		102-0612-00R
R20, 21, 30	22 kohm		102-0522-00R
R22, 23, 57	220 ohm		102-0322-00R
R24,25,42,44,45,47,55	10 kohm		102-0510-00R
R26, 27	1.2 kohm		102-0412-00R
R28	470 kohm		102-0647-00R
R31, 43, 46	2.7 kohm		102-0427-00R
R32, 38	2 kohm		102-0420-00R
R35, 36	27 kohm		102-0527-00R
R49	10 ohm		102-0210-00R
R50	1 Mohm		102-0710-00R
<b>Transistor</b>			
Q1	9018 H		107-9018-08R
Q2, 3, 4	9011 H		107-9011-08R
Q5,12,16,17,18,20,21,22	9014 C		107-9014-43R
Q6, 7, 23	2SC 2328AY		107-2328-27R
Q8, 9	2SA 928AY		107-0928-27R
Q10, 11, 14, 15, 25	9014 B		107-9014-02R
Q13	8550 C		107-8550-03R
Q19	2SK 3435		107-3435-00R
Q24	9015 B		107-9015-02R
<b>Miscellaneous</b>			
M1	Rear Motor RS-550PC-8516		030-0077-00
M2	Front Motor GCF131NP-12240DA 35 mm		030-0033-01
	Straight Wafer ( 6 Post )		031-0010-00R
SW1	Slide Switch SS-22F17-G7 RK (V)		032-0034-00R
SW2	Slide Switch SS-13D12-G9		032-0047-00R

## ELECTRICAL PARTS LISTS- CONTINUED

### TRANSMITTER (27.145 MHz)

Ref. No.	Description	RS Part No.	Mfr's Part No.
<b>Capacitors</b>			
C1	Ceramic Cap 12 pF +/-10% 50V		103-0212-00R
C2	Ceramic Cap 150 pF +/-10% 50V		103-0315-00R
C3	Ceramic Cap 45 pF +/-10% 50V		103-0245-00R
C4	Ceramic Cap 0.01 uF +80% -20% 50V		103-0510-00R
C5	Ceramic Cap 300 pF +/-10% 50V		103-0330-00R
C6	Ceramic Cap 68 pF +/-10% 50V		103-0268-00R
C7	Ceramic Cap 56 pF +/-10% 50V		103-0256-00R
C8, 18	Ceramic Cap 0.02 uF +80% -20% 50V		103-0520-00R
C9, 12	*Mylar Cap 0.015 uF +/-10% 100V		105-0515-00R
C10, 13	Ceramic Cap 0.001 uF +80% -20% 50V		103-0410-00R
C11, 14, 16, 17	*Mylar Cap 0.047 uF +/-10% 100V		105-0547-00R
C15	*Mylar Cap 0.022 uF +/-10% 100V		105-0522-00R
C19	Electrolytic Cap 100 uF +/-20% 10V		106-0310-00R
<b>Coil</b>			
L1	RF Transformer S-203		108-0203-00R
L2, 3	Inductor 1.5 UH		127-015-00R
<b>Diode</b>			
Z1	Zener Diode 5.1 V		111-0051-00R
D2, 3, 4 6	Diode IN 4148		111-4148-00R
D5	LED 5 mm White		118-5901-00R
<b>Crystal</b>			
X1	27.195 MHz		112-0027-04R
X2	27.145 MHz		112-0027-00R
X3	27.095 MHz		112-0027-03R
<b>PCB</b>			
PE2	TX PCB 136003A		100-0003-01R

\*Mylar is a registered trademark of E.I. DuPont de Nemours and Company.

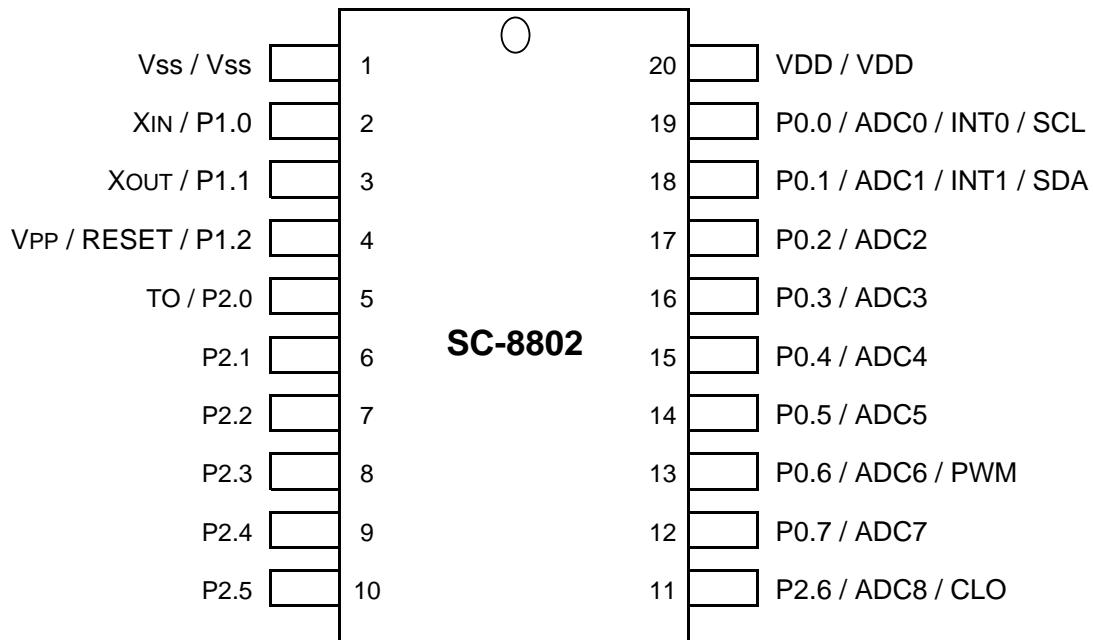
**TRANSMITTER (27.145 MHz)**

Ref. No.	Description	RS Part No.	Mfr's Part No.
<b>Resistor</b>			
R1	47 ohm		102-0247-00R
R2, 6, 11	33 kohm		102-0533-00R
R3	150 ohm		102-0315-00R
R4	220 kohm		102-0622-00R
R5	2.7 kohm		102-0427-00R
R7, 9, 14	4.7 kohm		102-0447-00R
R8	27 kohm		102-0527-00R
R10	22 kohm		102-0522-00R
R12, 13	360 kohm		102-0636-00R
R15	100 kohm		102-0610-00R
R16	10 kohm		102-0510-00R
R17	390 ohm		102-0339-00R
VR1, 2	Variable Resistor F16N5 B5K		115-0004-00R
VR3, 4	Semi-Fixed Resistor F805S 50K-T		115-0006-00R
VR5, 6	Semi-Fixed Resistor F805S 100K-T		115-0008-00R
<b>Switch</b>			
SW1	Slide Switch SS-12F06-G7 RK		032-0031-00R
SW2	Slide Switch SS-13D12-G9 (2)		032-0047-00R
<b>Transistor</b>			
Q1	9018 H		107-9018-08R
Q2	9014 C		107-9014-03R
Q3, 4, 7	1815 Y		107-1815-25R
Q5, 6	1815 GR		107-1815-27R

# IC LEAD IDENTIFICATION AND INTERNAL DIAGRAMS

## Pin Assignment

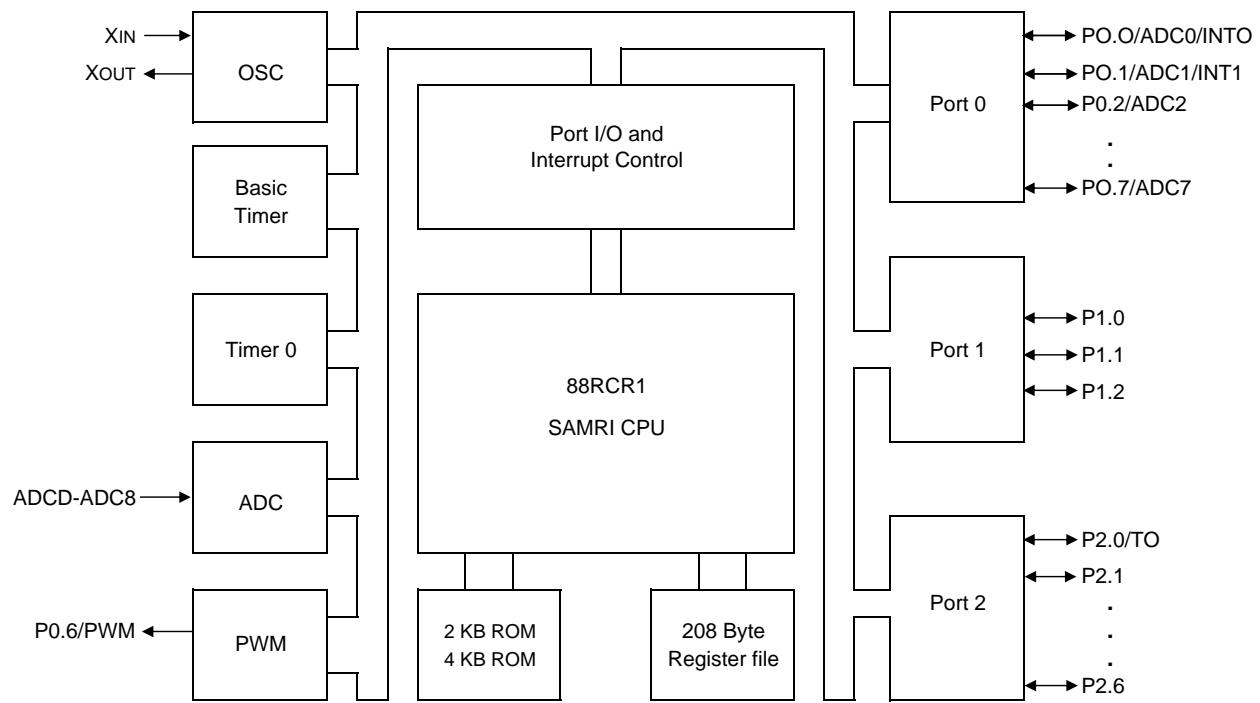
### Receiver



**NOTE :** bold indicates MTP pin name.

# IC BLOCK DIAGRAMS

SC-8802



**NOTE :** P1.2 is used as input only

## VOLTAGE CHART

### RECEIVER

Measuring condition :

Power Supply 7.2V

Unit : Volt ( DC )

Standby voltage at 7.2V

RX : No Signal

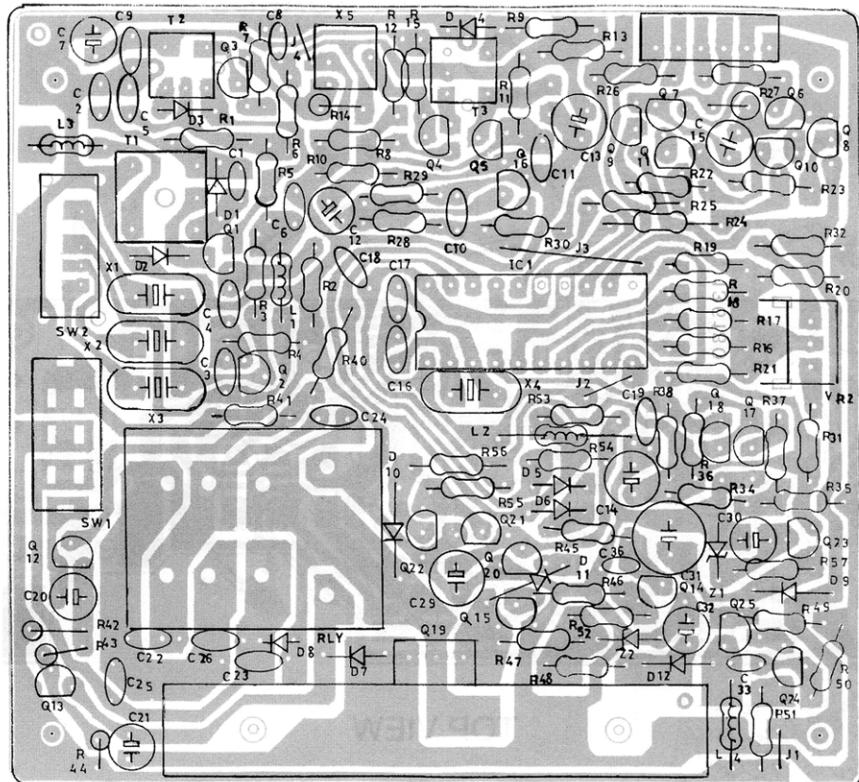
**ICI SC-8802**

Pin No.		1	2	3	4	5	6	7	8	9	10
MODE	RX	5.16	5.16	0.23	5.16	2.57	5.16	2.59	2.54	2.56	5.15

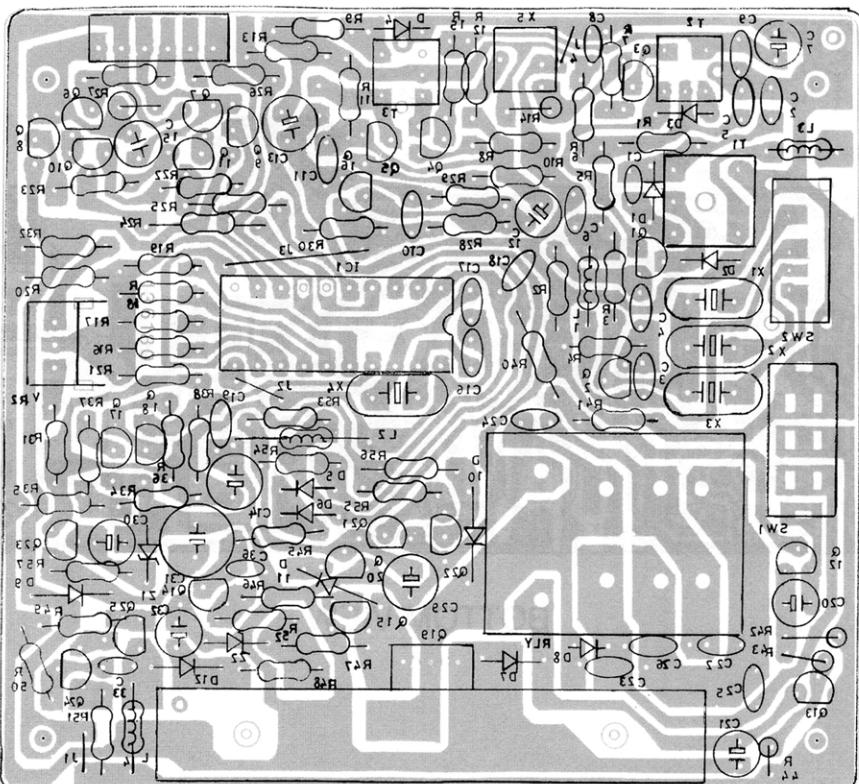
Pin No.		11	12	13	14	15	16	17	18	19	20
MODE	RX	0.01	0.03	5.15	5.15	0.04	5.15	5.15	0.01	0.02	0.01

# PRINTED CIRCUIT BOARDS

## RECEIVER



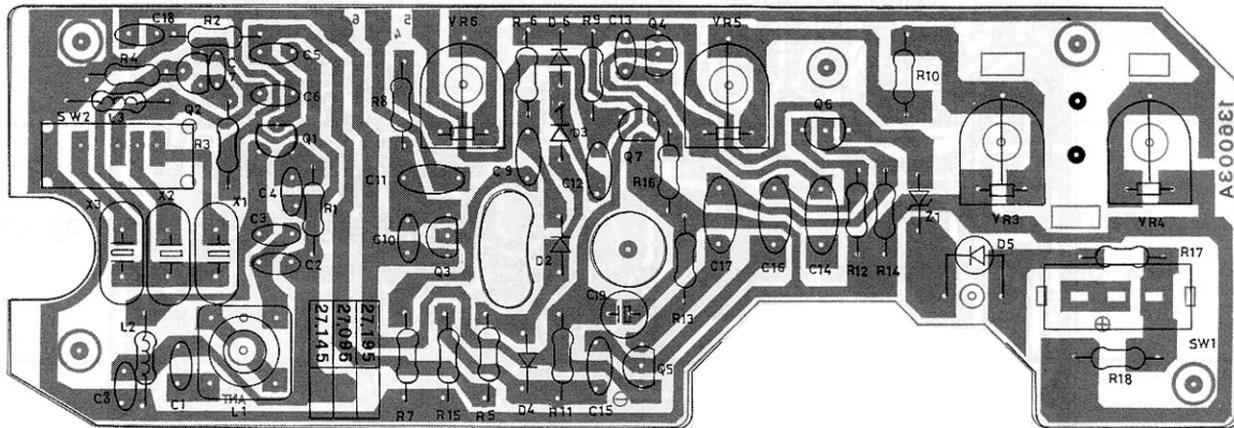
TOP VIEW



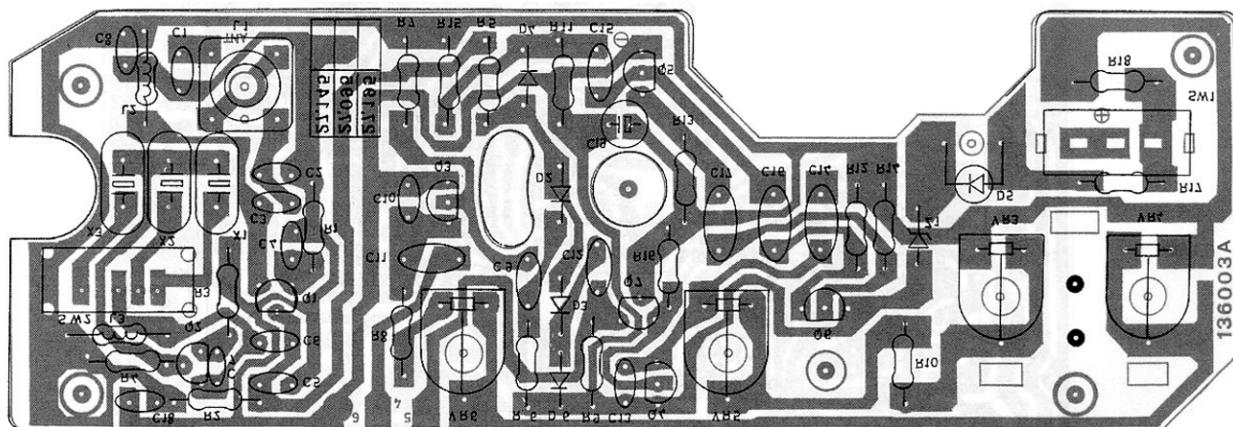
BOTTOM VIEW

# PRINTED CIRCUIT BOARDS

## TRANSMITTER



TOP VIEW



BOTTOM VIEW

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