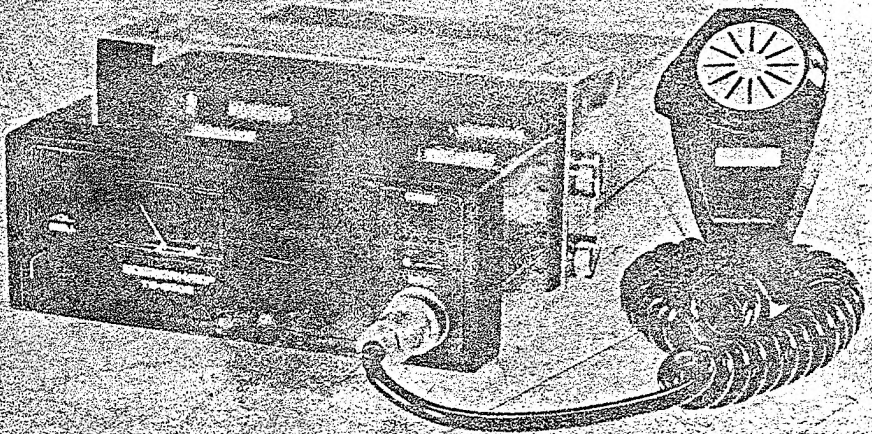


# SOMMERKAMP<sup>®</sup>

CITIZENS BAND TRANSCEIVER  
INSTRUCTION MANUAL



MODEL: TS-630S

**SPECIFICATIONS for TS-630S**

Semiconductors:	22 transistors, 2 diode 2 S.C.R.
Transmitter System:	Synthesizer crystal controlled. Collector modulation AM
Frequency:	30 channels on 27 MHz
Output Power:	10 watts
Band Width:	8 KHz (max)
Antenna Impedance:	50-52 ohms
Receiver System:	Double conversion superheterodyne crystal controlled
Sensitivity:	1 $\mu$ V or better for 100mW output 10 dB signal to noise ratio
Intermediate Frequency:	455 KHz 10.7 MHz
Receiver Sensitivity:	25 dB down at 10 KHz
Squelch Sensitivity:	2 $\mu$ V
Audio Output Power:	1 watts in 10% distortion
Power Source:	11-16 volt D.C. Negative Ground
Power Consumption:	TX-1.8A at no modulation RX-0.3A at no signal
Microphone:	Dynamic type with press talk switch
Speaker:	Dynamic type V. Coil 8 ohm
Size:	156 x 58 x 205 mm
Weight:	1.5 kg
Accessories:	Mounting bracket, Mounting hardware power cord

**SOMMERKAMP ELECTRONIC**

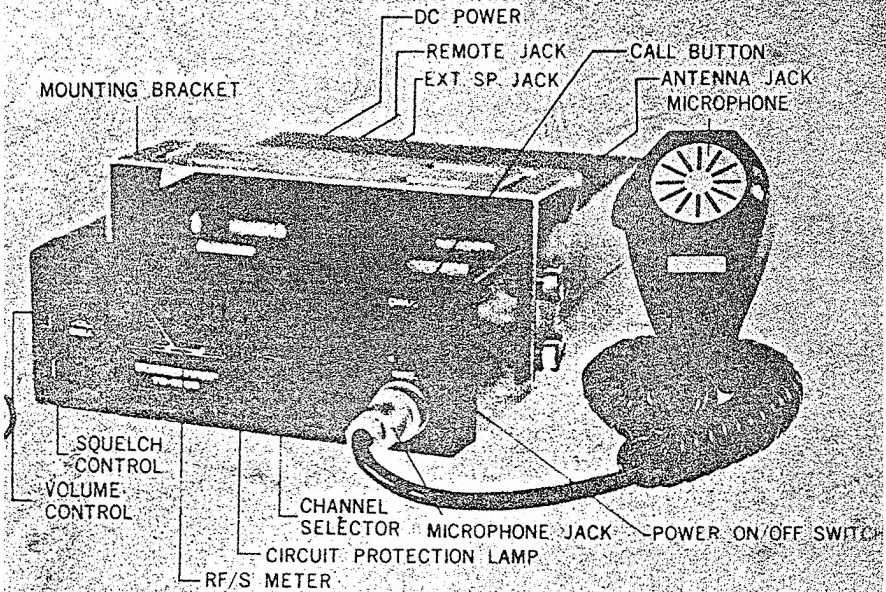
CH-6903 LUGANO, BOX 176,

TEL: (0041) 91-688543

TELEX: (0045) 79314

## OPERATING INSTRUCTIONS

The transceiver is ready to operate when it is installed with an antenna properly connected. Note that the communication range differs depending upon the environment where the transceiver is operated. You may reach 30 or 40 kilometers where no obstacle exists, but the range may be limited to 5 or 6 kilometers in cities where many high buildings disturb the communication.



- 1) Turn the set on by switching the ON-OFF snap switch and the channel dial will be lighted. Turn the volume control clockwise to increase the audio sound. Note that the volume control knob is only for adjusting the audio volume, not to increase the transmitting power.
- 2) Turn the squelch control clockwise until incoming noise is eliminated. Do not turn it excessively, as the sensitivity may be reduced.
- 3) Turn the channel selector knob for the desired channel.
- 4) For transmitting, press the button on the microphone and speak into it normally. Release the button for receiving.

### METER

The meter reading indicates the signal strength at receiving and functions as an output indicator at transmitting, and the meter pointer should be within the Red zone under the normal conditions.

## CIRCUIT PROTECTION INDICATOR LAMP

The Lamp is on when the antenna is mismatched, and the transmitting circuit will be cut off

## ■ TONE-LIGHT CALLING DEVICE

The Model TS 630S is equipped with a selective tone-light calling device which works on 1.750-Hz signal. To call the other station, push the push-to-talk button and the call button simultaneously, when the calling signal is transmitted. When the signal is received, a peep tone is produced and the call-light lamp will be lighted at the other station and the lamp stays on until the other station answers.

Please note that the device works only when the other station is switched on and that the buttons on the calling side must be depressed at least for 10 seconds.

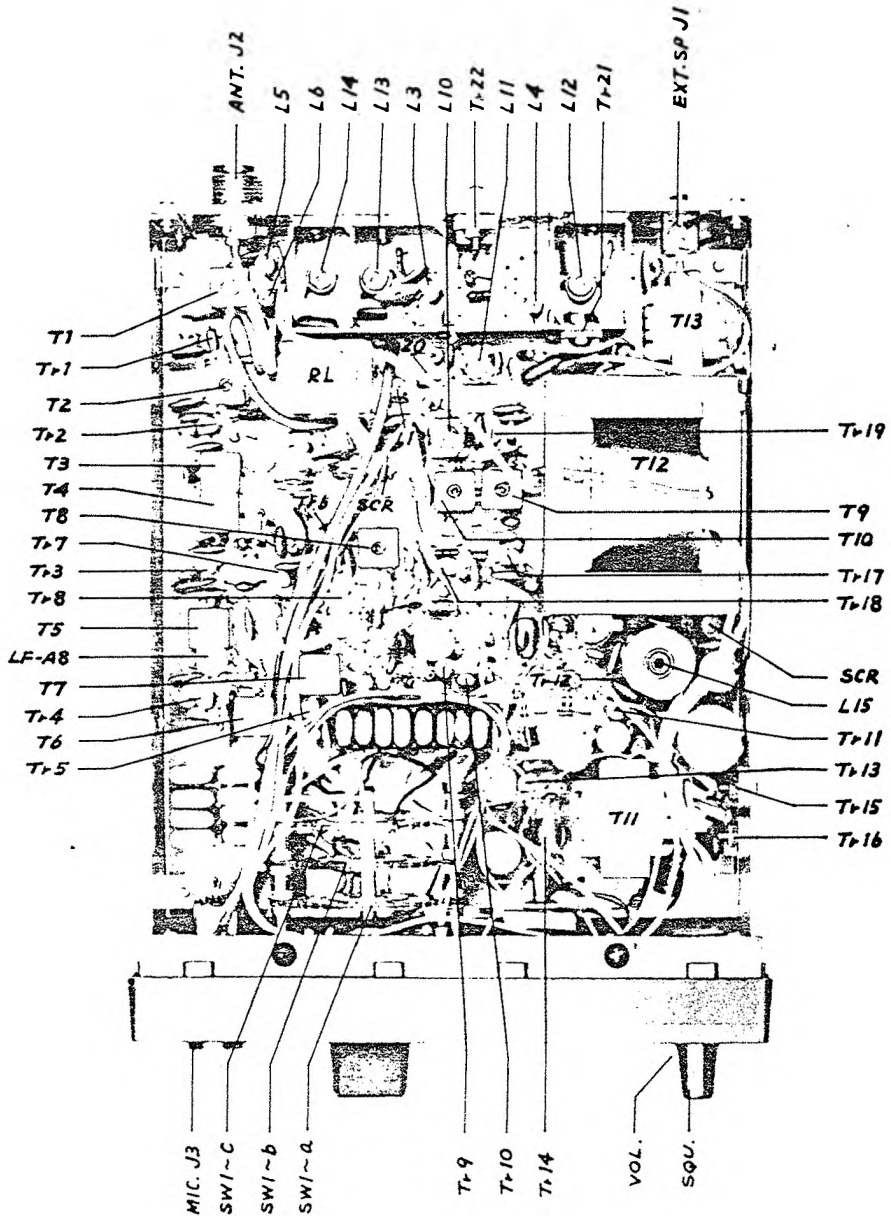
### List of accessories:

Mounting bracket	1
Hexagonal screw	4
Microphone hanger	1
Screw for above	2

### List of channel frequencies:

CHANNEL NO	FREQUENCY	CHANNEL NO	FREQUENCY
1	26.965 Mhz	15	27.135 Mhz
2	26.975 Mhz	16	27.155 Mhz
3	26.985 Mhz	17	27.165 Mhz
A	26.995 Mhz	18	27.175 Mhz
4	27.005 Mhz	19	27.185 Mhz
5	27.015 Mhz	20	27.205 Mhz
6	27.025 Mhz	21	27.215 Mhz
7	27.035 Mhz	22	27.225 Mhz
8	27.055 Mhz	B	27.235 Mhz
9	27.065 Mhz	C	27.245 Mhz
10	27.075 Mhz	23	27.255 Mhz
11	27.085 Mhz	D	27.265 Mhz
12	27.105 Mhz	24	27.275 Mhz
13	27.115 Mhz	E	27.285 Mhz
14	27.125 Mhz	F	27.295 Mhz

# COMPLETE PARTS LAYOUT





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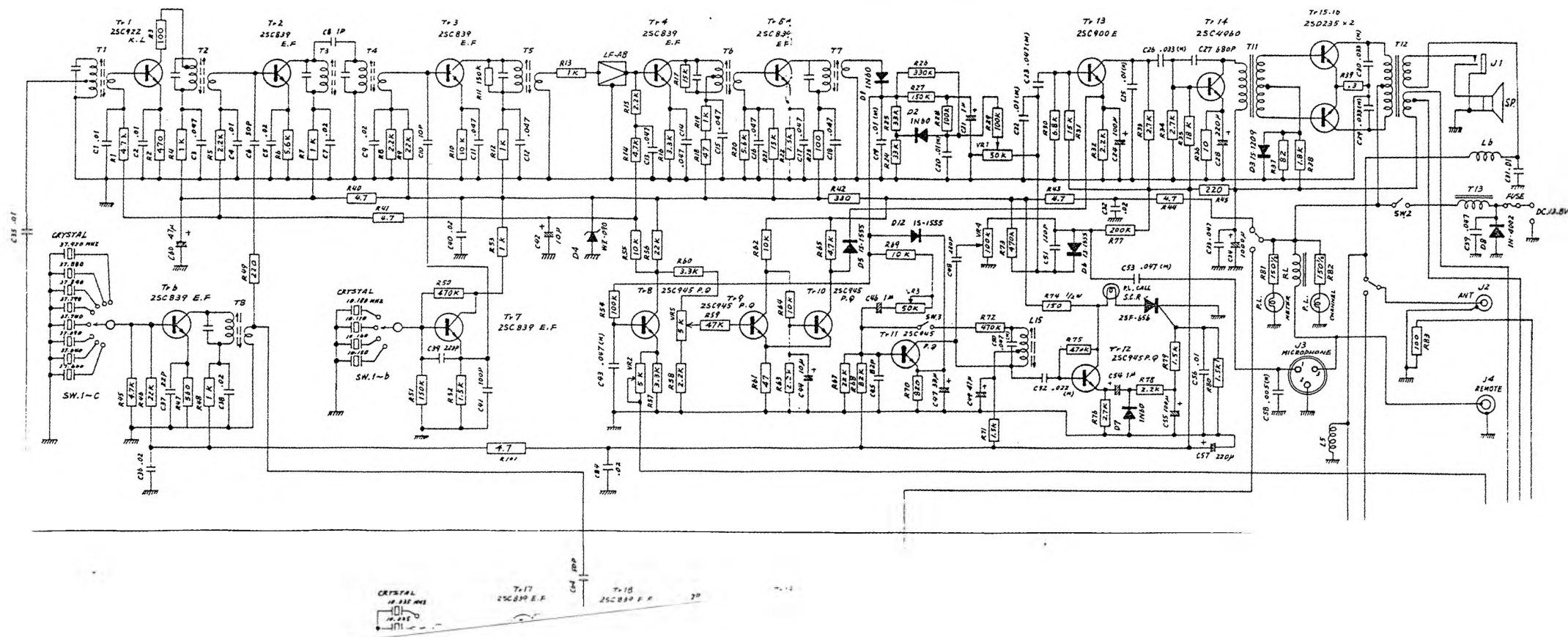
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SCHEMATIC DIAGRAM

TS 6305



# SCHEMATIC DIAGRAM

