
INSTRUCTION MANUAL

EICO

706

CODE PRACTICE
OSCILLATOR

706-1

5/23/66

EICO

FINISHED

131-01 39th Ave., Flushing, N. Y. 11352

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MODEL 706

CODE PRACTICE OSCILLATOR

general description

The Model 706 Code Practice Oscillator is a valuable aid in the study and practice of Morse code, so important to novice radio amateurs, Boy Scouts, and others interested in radio communication. As a kit, there is additional value in the skill and knowledge developed in the construction, and it offers the novice a chance to become acquainted with transistor circuitry.

The Model 706 is basically a battery-operated transistor audio oscillator, tunable over the range from 500 to 2000 cycles by the pitch control on the panel. An efficient loudspeaker is built in. If desired, a headset may be plugged into the phone jack on the panel, which automatically cuts out the loudspeaker.

A convenient flashing light on the panel can also be used for signaling after dark, when the flashing light can be seen for great distances. A panel switch selects tone alone, light alone, or both tone and light.

External key terminals are provided on the front panel. A formed metal spring and a #6 solder lug are included to serve as a temporary key if a real key is not immediately available.

The Model 706 surpasses other units in offering a pitch control, a phone jack, an outstandingly efficient 3" speaker, and a life-time deep-etched satin aluminum panel. Furthermore, its ruggedness and simplicity assure many years of trouble-free service.

specifications

Tone Frequency Range: Approx. 500 to 2000 cps. continuously variable.

Controls: Pitch, Tone and/or Light.

Current Drain (Tone): 40ma at 3VDC

Current Drain (Light): 300ma at 3VDC

Current Drain (Tone and Light): 340ma at 3VDC

Terminals: Key, Phones

Case: High-impact bakelite

Panel: Satin Finish, deep-etched aluminum

Size: 6 1/2" high, 3 3/4" wide, 2 3/4" deep

Shipping Weight: 2 lbs.

THE INTERNATIONAL MORSE CODE

A didah	P didahdahdit	5 dididididit
B dahdididit	Q dahdahdidah	6 dahdidididit
C dahdidahdit	R didahdit	7 dahdahdididit
D dahdidit	S dididit	8 dahdahdahdidit
E dit	T dah	9 dahdahdahdahdit
F dididahdit	U dididah	Ø dahdahdahdahdah*
G dahdahdit	V didididah	Period didahdidahdidah
H didididit	W didahdah	Comma dahdahdidahdah
I didit	X dahdididah	Question Mark dididahdahdidit
J didahdahdah	Y dahdidahdah	Error dididididididit
K dahdidah	Z dahdahdidit	Double dash (BT) dahdidididah
L didahdidit	1 didahdahdahdah	Wait (AS) didahdididit
M dahdah	2 dididahdahdah	End of message didahdidahdit
N dahdit	3 didididahdah	Invitation to transmit dahdidah
O dahdahdah	4 dididididah	End of work (SK) didididahdidah

* The numeral zero is usually written Ø to distinguish it from the capital O.

maintenance

There should be little in the way of maintenance required, except for normal replacement of the batteries. Weak batteries will be indicated by a dimming of the panel lamp and weak or no tone. The batteries used are standard "C" cells available everywhere. In case of breakage or burn-out of the lamp, replace it with a #14 (2.5 volts at 0.3 ampere). Do not leave dead batteries in the unit as they often will leak a corrosive acid damaging to the components.

TROUBLE SHOOTING CHART

Defect: No Tone, bulb lights.

- Check:
1. Polarity of batteries.
 2. Wiring on slide switch S1.
 3. Open speaker on transformer.
 4. Phone jack open.
 5. Open resistor R1.

Defect: No light.

- Check:
1. Bulb
 2. Wiring on slide switch S1.

Defect: No variable pitch.

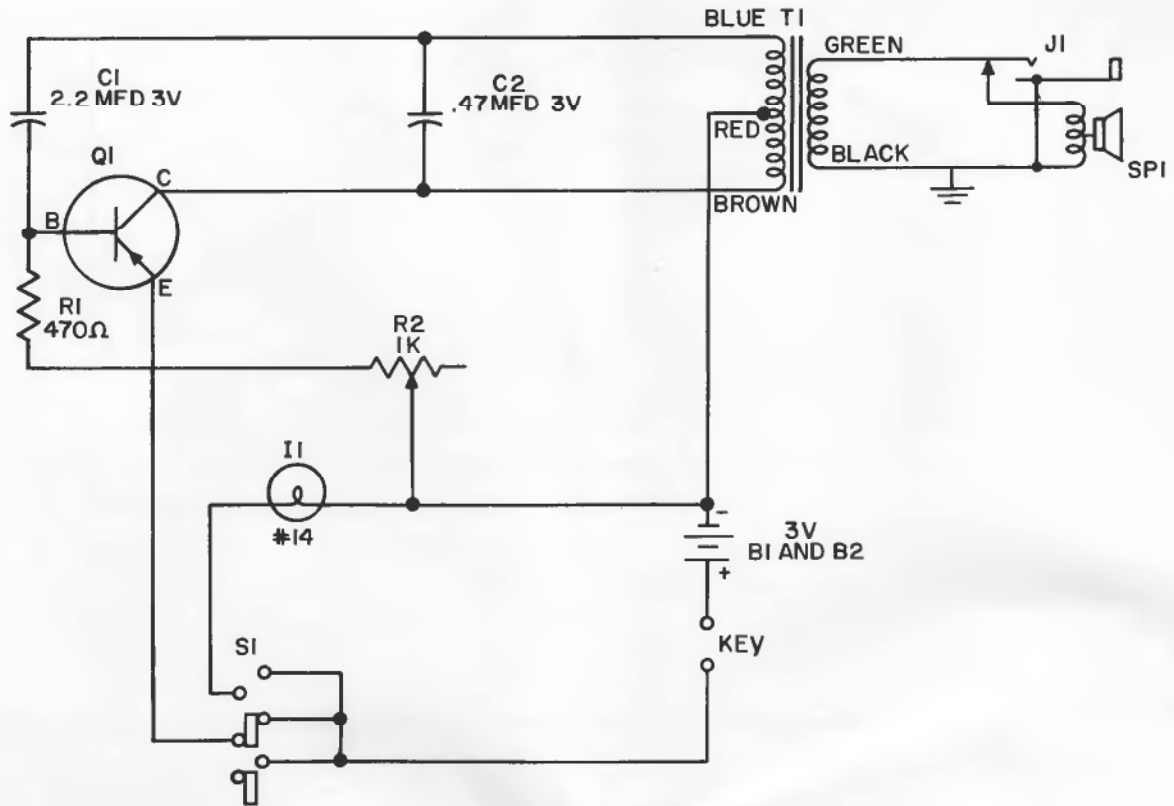
- Check:
1. Wiring on potentiometer R2.

Defect: No tone in light-tone position.

- Check:
1. Correct position of slide switch S1 on panel.
 2. Wiring on slide switch S1.

SERVICE

If trouble develops in your instrument which you can not remedy yourself, write to our service department listing all possible indications that might be helpful. Note number appearing in red under the word "Manual" on the front cover. If there is no number, state this. If desired, you may return the instrument to our factory where it will be placed in operating condition for \$2.00 plus the cost of parts replaced due to their being damaged in the course of construction. NOTE: Before returning this unit, be sure all parts are securely mounted. Attach a tag to the instrument, giving your home address and the trouble with the unit. Pack very carefully in a rugged container, using sufficient packing material (cotton, shredded newspaper, or excelsior), to make the unit completely immovable within the container. The original shipping carton is satisfactory, providing the original inserts are used or sufficient packing material is inserted to keep the instrument immovable. Ship by prepaid Railway Express, if possible, to Electronic Instrument Co., Inc., 33-00 Northern Blvd., L.I.C. 1, N.Y. Return shipment will be made by express collect. Note that a carrier cannot be held liable for damages in transit if packing IN HIS OPINION, is insufficient.



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MODEL 706 CODE PRACTICE OSCILLATOR



REPLACEMENT PARTS LIST

Stock#	Sym.	Description	Am't.	Stock#	Description	Am't.
56003	B1, 2	battery, 1.5V, Size "C"	2	41014	screw, 6-32 x 3/8	4
56516	BR1	bracket, battery, double size "C"	1	41016	screw, 4-40 x 1/4	6
22565	C1	cap., disc, 2.2mfd, 3V	1	41074	screw, #2 self tapping	2
22566	C2	cap., disc, .47mfd, 3V	1	41082	screw, 4-40 x 1	2
92011	I1	bulb, #14	1	42000	washer, 3/8 lock	2
50022	J1	jack, closed circuit	1	42001	washer, 3/8 flat	2
94006	Q1	transistor	1	42002	washer, #6 lock	4
10429	R1	res., 470Ω, 1/2W, 10%	1	42007	washer, #4 lock	8
16001	R2	pot., 1K	1	43000	ground lug, #6	2
62003	S1	switch, DPTT	1	44010	standoff	2
55013	SP1	speaker, P.M. 3"	1	46012	grommet, rubber, 3/8 I.D.	1
32022	T1	transformer, output	1	53002	knob	1
54018	TB1	terminal strip, 4 post, w/gnd.	1	55303	grill speaker	1
54513	TB2	terminal board, 2 post	1	58004	wire, hook-up	length
54001	TB3	terminal strip, 1 post right	1	58300	spaghetti	length
97704	X11	socket, bulb	1	80071	panel	1
97043	XQ1	socket, transistor	1	81209	chassis	1
40000		nut, hex, 6-32	5	88068	cabinet	1
40001		nut, hex, 3/8	2	89633	key spring	1
40007		nut, hex, 4-40	8	66089	manual of instructions (wired)	1
41000		screw, 6-32 x 1/4	5	66342	manual of instructions (kit)	1

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