KATSUMI ELECTRONIC KEYER EK-150

INSTALLATION INSTRUCTION

FEATURES

The ELE-KEY model EK-150 itself forms the dots, dashes and spaces in the precise ratio required for perfect code, at any speed desired by the operator.

Plug-in unit P.C.B. and solid state circuitry.

Squeeze (IAMBIC) sending with full dot and dash memories.

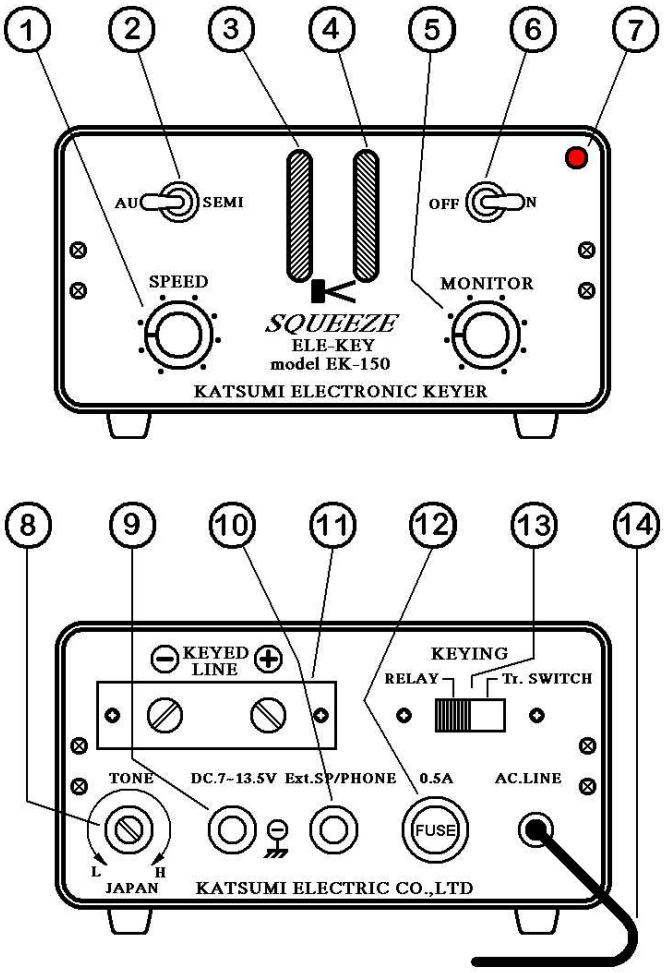
Built-in sidetone with tone and volume control, switch for SEMI(BUG)/AUTO. Built-in speaker, headphone jack.

Heavy duty transistor switch (2SB546) for 150 V, 2 Amp. DC and with a built-in high speed plate relay for max. 700 V, 500 mA any transmitter keying.

Operation on 100 to 120 V/50 – 60 Hz or DC 7 – 13.5 V.

Respectively

Operation on 220 to 240 V/50 – 60 Hz or DC 7 – 13.5 V.



OPERATION

(1) Check polarity and the required keying voltage and current on your transmitter key terminals, using a tester (voltmeter, milliameter) the key up (open circuit) voltage must not be in excess of .50 volts D.C.

(2) Connect the key line (output) **[11]** on the rear panel terminal (+) to the POSITIVE keying terminal of the transmitter, and the (–) to the NEGATIVE terminal, as previously determined by voltmeter test (1).

(3) Plug in the power cord **[14]** to the 100 to 120 volts resp. 220 to 240 volts, 50 to 60 Hz alternating current supply. Set the power switch **[6]** to the ON position. The pilot lamp **[7]** should light.

(4) Moving the dual key levers to the dot position (push to the right for **[3]** left key lever) should result in dots being heard from the speaker and moving the dual key lever to the dash position (push to left for **[4]** right key lever) should produce dashes.

(5) Turn the speed control knob **[1]** to the desired, which may be instantly adjusted within the range of 8 to 60 WPM.

(6) The monitor knob **[5]** control the volume of the speaker and head phone **[10]**. Adjustable tone control **[8]** (tone L: low, H: high).

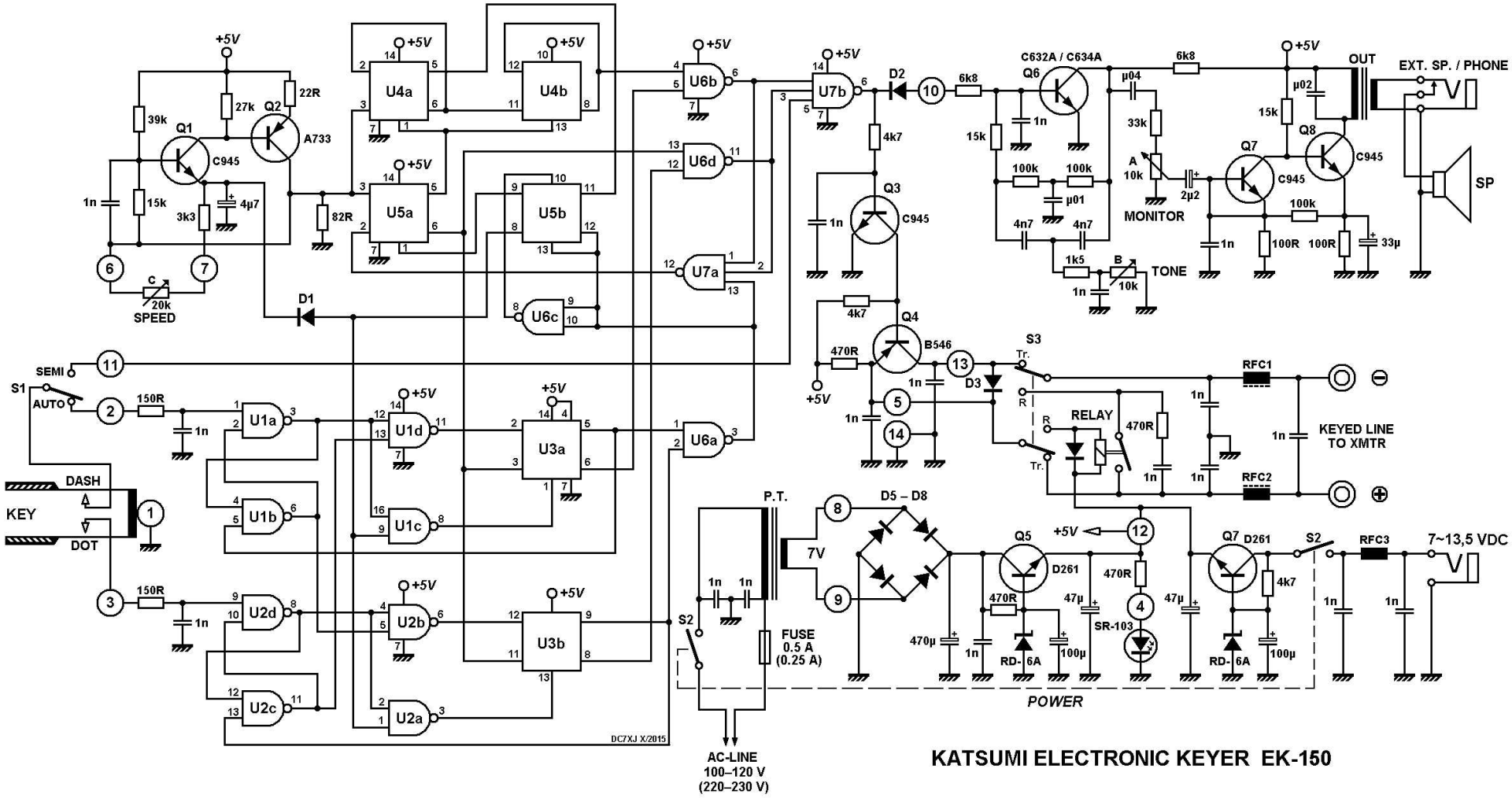
(7) The switch **[2]** on the AUTO position is normal use automatic dot - automatic dash. The SEMI position is automatic dot - manual dash alternate use and transmitter tune.

(8) Sit back and relax, with the satisfaction that you now have the EK-150 for sending the first CW, and with the closest approach possible to precise machine tape sending.

SPECIAL CONDITIONS

When the voltage and currents are greater than the values recommended in (1) above, various arrangements may employed.

Generally, transmitters utilizing high voltage cathode keying will exceed the voltage given above. These transmitters may be operated by using a built-in relay (Set the KEYING switch **[13]** to RELAY position). Relay keying output is Max. voltage open circuit 700 V, Max. current 500 mA.


+5V
39k
27k
Q2
22R
A733
Q1
C945
1n
15k
3k3
4µ7
82R
C
20k
SPEED
D1
U4a
U4b
U5a
U5b
U6c
U6b
U6d
U7a
U7b
D2
6k8
4k7
Q3
C945
Q4
B546
470R
1n
D3
S3
Tr.
R
RELAY
RFC1
RFC2
KEYED LINE
TO XMTR
C632A / C634A
Q6
µ04
33k
A
10k
MONITOR
2µ2
Q7
Q8
C945
µ02
15k
100k
µ01
4n7
1k5
B
10k
TONE
100R
33µ
OUT
EXT. SP. / PHONE
SP
SEMI
S1
AUTO
DASH
KEY
DOT
150R
U1a
U1b
U1c
U1d
U2a
U2b
U2c
U2d
U3a
U3b
DC7XJ X/2015
P.T.
D5 – D8
7V
FUSE
0.5 A
(0.25 A)
S2
AC-LINE
100–120 V
(220–230 V)
Q5
D261
SR-103
RD- 6A
47µ
100µ
RFC3
7~13,5 VDC
POWER
KATSUMI ELECTRONIC KEYER EK-150