

# **DAIWA**

## **ELECTRONIC KEYS**

### **MODEL DK-200**



### **MODEL DK-210**



## **INTRODUCTION**

The DK-200/DK-210 functions as a squeeze keyer with the DASH/DOT memory.

The ratio of DASH/DOT and SPACE can be adjusted with the WEIGHT Control.

With the WEIGHT control feature, you can adjust for the best DASH/DOT and SPACE ratio for each operating speed.

Two types of keying outputs are available: GRID BLOCK and DIRECT.

A side-tone oscillator built in.

LED speed indicator (Model DK-210 only).

The DK-200/DK-210 can be powered by a 9 Volt battery.

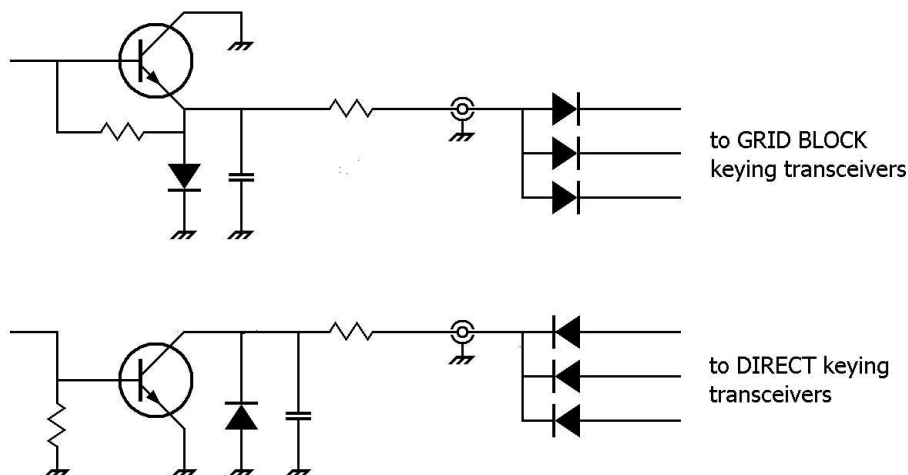
Three modes: Automatic, Semi-Automatic and Tune (continuous tone) can select by MODE switch.

## **SPECIFICATIONS**

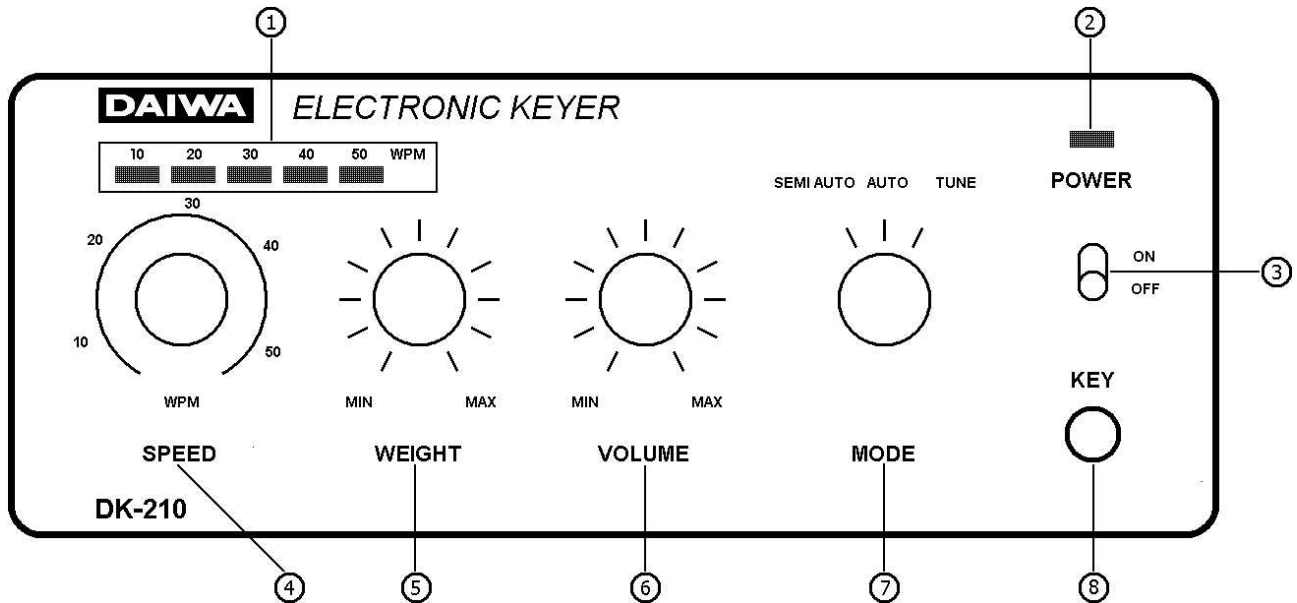
Speed	8 WPM...50 WPM
Side-tone oscillator frequency	500...3000 Hz
Keying output circuitry	GRID BLOCK: 100 V, 10 mA max. DIRECT: +300 V, 100 mA max., -100 V, 10 mA
Power consumption	13.8 VDC (9 ... 15 V) approx. 100 mA / DK-200 200 mA / DK-210 or a 9 Volt battery can be installed inside the cabinet
Dimensions	150 mm W × 62 mm H × 150 mm D; 0,9 kg
LED Speed indicator	DK-210 only
Other	
RCA plug	2 pcs
Stereo phone plug	1 pc
DC plug with cord	1 pc

NOTE: The keyer can be operated by an AC adaptor (DC 12 V, 200 mA; maximum voltage of the adaptor should not be exceeded DC 15 V when no load connecting).

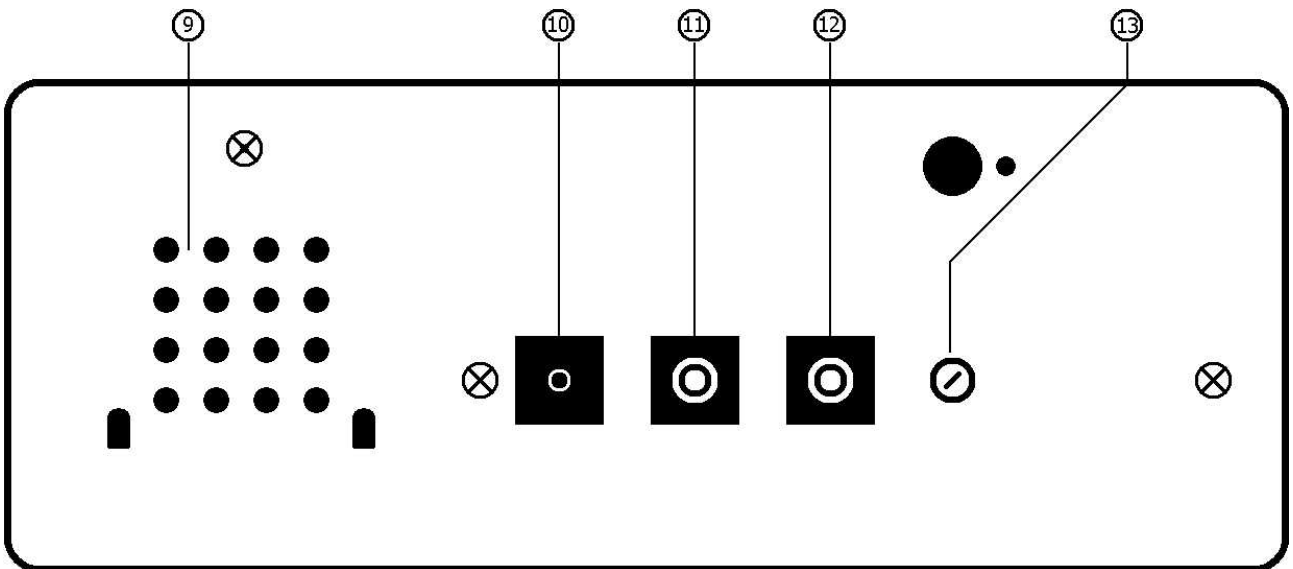
## **PARALLEL CONNECTION OF TRANSCEIVERS**



## OPERATION



1. Speed indicator: The LED indicates the speed of code transmitted in WPM.
2. Pilot LED: The pilot LED glows when the LINE switch is on.
3. LINE Switch: The LINE Switch supplies power to the DK-200/DK-210.
4. Speed control: The speed of keying is indicated by turning the Control.
5. Weight Control: Ratio of DASH/DOT and SPACE is adjusted with this Control. Setting the control knob at the fully clockwise position produces a perfect 1:3:1 DOT/DASH/SPACE ratio. Turning the knob counter-clockwise will decrease the ratio.
6. Monitor Volume: Audio level of side-tone oscillator can be adjusted. The knob at fully counter-clockwise position is minimum output. Turning the knob clockwise increases audio output.
7. Mode Switch: Three modes can be selected:
  - AUTO: The keyer works as fully automatic keyer.
  - SEMI AUTO: The keyer works as semi automatic keyer or "Bug Key"; DOTS are generated automatically while DASHES are controlled manually.
  - TUNE: The keying output is shorted whenever the Mode Switch turned to the TUNE position.
8. Key Jack: Solder a two conductor shielded cable to the phone jack supplied as shown in fig. 3. Insert the wired plug into the socket.



9. Monitor Speaker: For side-Tone reproduction.

10. DC socket            Connect the DC plug supplied to a regulated power supply according to the fig. 1. Insert the DC plug to the DC socket.

11. Keying output      GRID BLOCK: The GRID BLOCK keying output can key negative 100 V (10 mA max.) to ground. This output can key all transceivers with GRID BLOCK keying circuits.

12. Keying output      DIRECT:            The DIRECT keying output can key 300 V (100 mA max.) to ground.

13. Side-tone frequency trimpot:      Frequency of oscillator can be adjusted between 500 and 3000 Hz.

**CAUTION**

Be sure to check the keying in your transmitter before connecting the DK-200/DK-210. (Either GRID BLOCK or DIRECT.) IF your transmitter seems to key continuously, use the other DK-200/DK-210 keying output. It is best to verify the keying method used in your transmitter before connecting the keyer.

Two transceivers can be connected to the keyer simultaneously . Be sure to use the silicon diode arrangement for current protection. The total current flowing through the keying output circuitry must not exceed the maximum current rating of the keyer!

**NOTE**

For a protection of an RF feed back in the keyer when a station operates with high power output, it is necessary to use better quality shielded wires for the keying output and/or the key input. All connecting wires used including the main lead should be connected as shortest as possible.

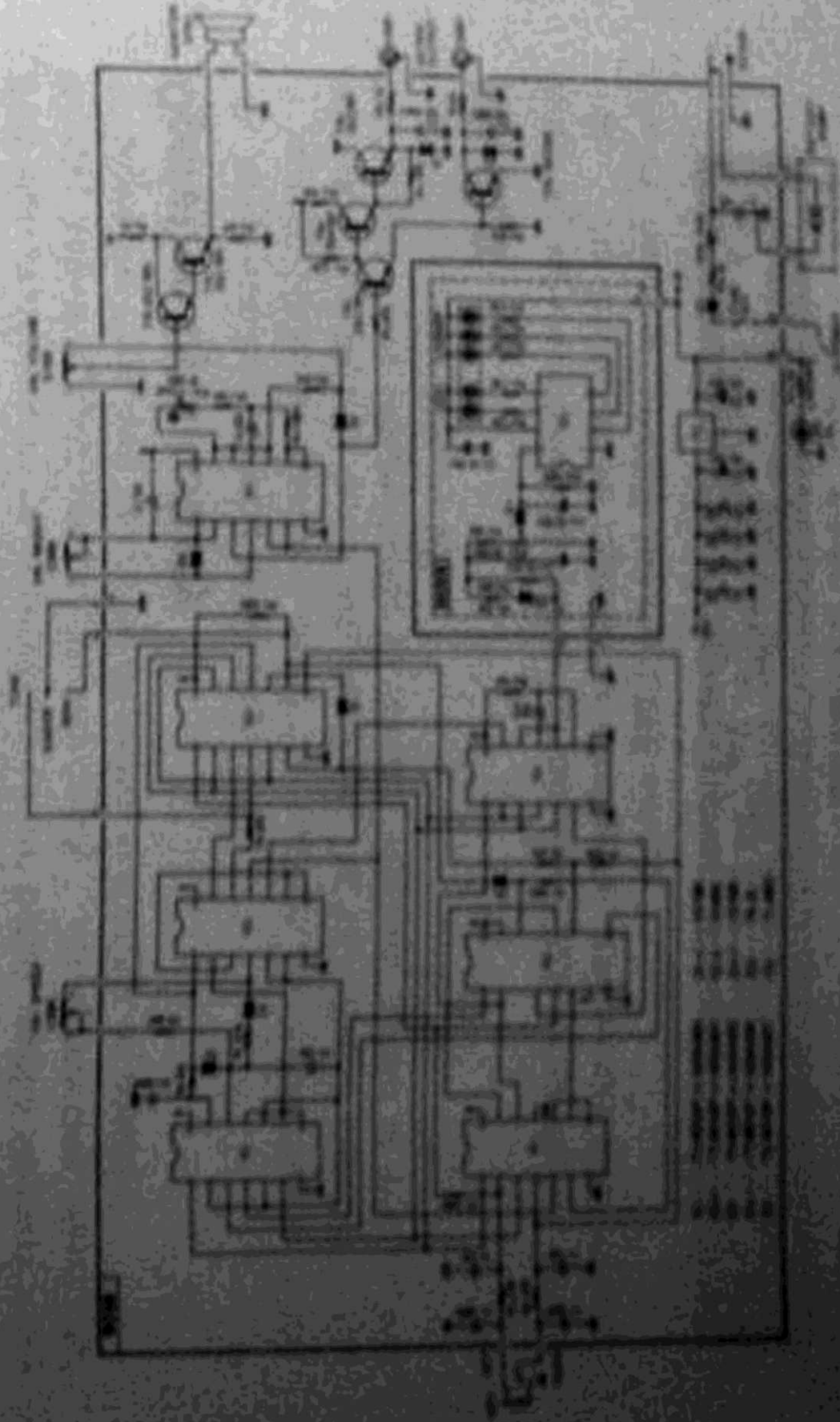
**Operating by a battery**

The keyer can be operated by battery (9 Volt). A battery holder is provided inside the cabinet for connecting a 9-Volt-battery. The battery is cut off whenever the DC plug is connected in the DC socket. It is recommended to set the side-tone output at low level in order to conserve battery life.

**DK-210**

It is also suggested to disable the speed indicator LEDs for saving the battery life. The LEDs can be disabled by cutting the orange-color lead between the PC board of the LED and the LINE switch.

# SCHEMATIC DIAGRAM



OK-200 / 210