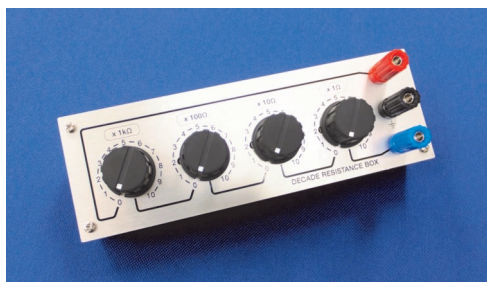# DECADE RESISTANCE BOX KIT

DRB-KIT

- Assembling Manual -

DRB-KIT is an assembly kit for a variable resistance box that is available for practical use.
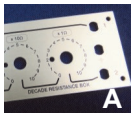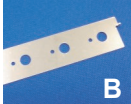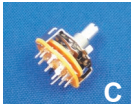
Assembling time: Approximately two hours

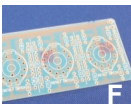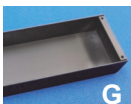## * Tool list

| Tool name	Manual
Soldering iron (Around 30W)	[1] [2] [3] [4]
Resin flux cored solder	[1] [2] [3] [4]
Cutting nipper	[4]
Needle-nose pliers	[3] [4]
Wire stripper	[2] [4]
Phillips head screwdriver	[5]
Multi meter	[6]

* *

Please check to see if the package has all the necessary parts.
Please also prepare the necessary tools yourself before assembling.

TOKYO KO-ON DENPA CO.,LTD.
MADE IN JAPAN

* Parts list

|	Part name	Qty
A	Front panel	1
B	Shield board	1
C	Rotary switch	4
D	Terminal (Red, Blue, Black)	1
E	Knob	4
F	PCB	1
G	Case	1
H	Resistor A (1k ohm)	10
H	Resistor B (100 ohm)	10
H	Resistor C (10 ohm)	10
H	Resistor D (1 ohm)	10
-	Wire (Red, Blue, Black)	1
-	Washer and hexagon nut	4
-	Screw	4
-	Rubber foot	4

[1] Soldering the resistors
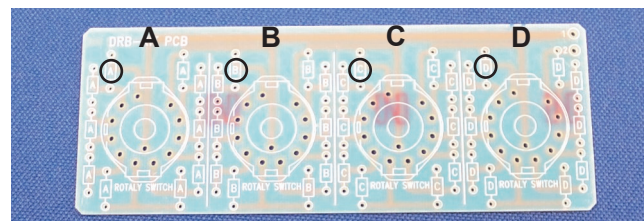
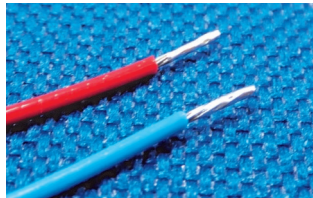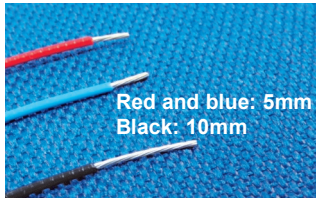Solder the 40pcs resistors by following the English alphabet written on the printed circuit board.
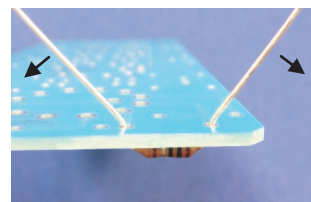
1: Bend the lead wire of the resistor and thread PCB with it.
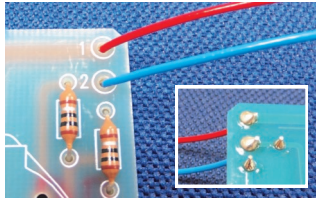2: Widen the lead wire not to come off from the PCB.
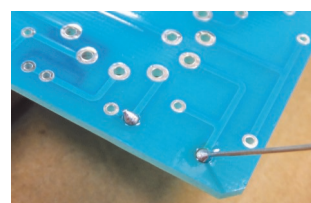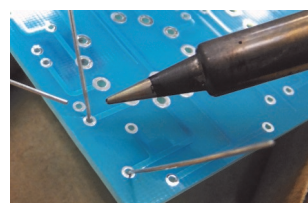
3: Reverse the printed circuit board and do soldering.
4: Cut the extra wire with a nipper.

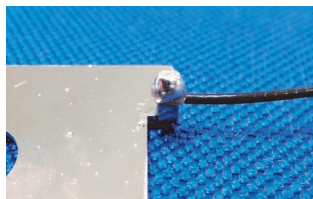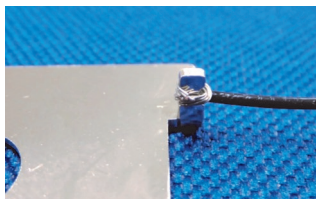## [2] Soldering the lead wires

Red and blue: 5mm
Black: 10mm

1: Peel the tip of the lead wire off with a wire stripper.
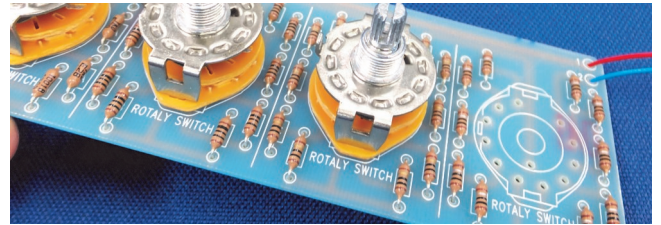2: Do preliminary soldering. (only for Red and blue one)

Solder Red one to "1"
Blue one to "2"

3: Solder the lead wire to the printed circuit board.

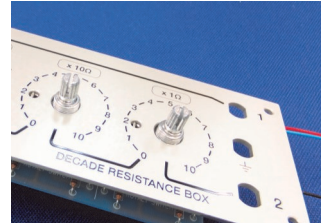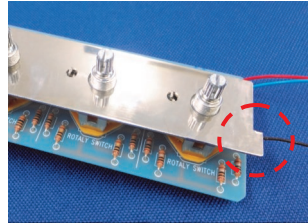- -

4. Wind the black lead wire around the part of the shield board that is bended.
5. Do soldering. (Warm the part to solder beforehand.)

[3] Soldering the rotary switches

1. Mount a rotary switches on the printed circuit board.

2. Put a shield board and a front panel.

3. Put a washer in the shaft and tighten with a hexagon nut. (Fix the nut by hand temporarily.)
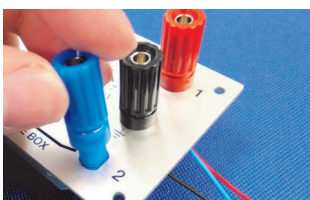
[3]

4. Reverse the body component while maintaining the position of printed board and solder the terminal of the rotary switch.
5. Fix a hexagon nut with needle-nose pliers.

[4] Soldering the terminals

Peel 10mm

1. Attach a terminal to a front panel.

2. Peel the lead wire, and wind it around the tip of the terminal and solder it.
   (Warm the part to solder beforehand.)

[5] Assembly

1. Put a rubber foot on the case.
2. Fit the panel into a case and fix with a pan screw.

3. Attach a knob.

[6] Confirmation

1. Connect the tester to terminal 1 and 2 and confirm the resistance value.

* Turn each knob to fully CCW and check if the value is less than 1 ohm.
* Confirm the value at all graduation position. If it is within tolerance, your resistance box is now complete.
(Please take the clearance of the resistor into account.)