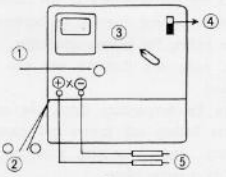
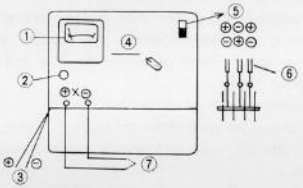
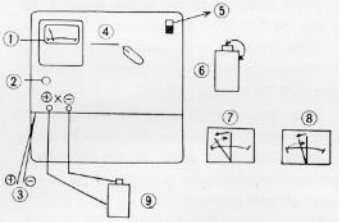
I. Operarating Instructings for Service Tester, Type ST 4 B 4

Item	Power	Direction for Use	
Continuity test	6 or 12 volts	Connect the test leads to the "X" terminals and attach the ends of the test leads to the part to be tested. If there is continuity, the red "Continuity" lamp will be lit. No lighting indicates that there is no continuity. **Example :** 1. Light bulbs, shorted or open electrical circuit. 1. Many other electrical continuity tests can be performed.	 ① Continuity lamp ② Power (6 V or 12 V) ON ③ Continuity ④ OFF turn the switch off ⑤ Test lead
Resistance test	6 or 12 volts	Short out the ends of the test leads connected to the "X terminals and adjust the indicator needle of the resistance meter to "O" by the adjusting knob. Attach the ends of the test leads to the points across which the resistance is to be measured and read the meter indication. **Example :** 1. Secondary ignition coil, 5,000~10,000 Ω 1. Selenium rectifier normal direction, 5~40 Ω 1. Selenium rectifier reverse direction, 600 Ω min. 1. In addition resistance across the points and many other uses.	 ① Black scale ② Adjusting knob ③ Power (6 V or 12 V) ④ Resistance ⑤ Turn the switch off ⑥ Test lead ⑦ Short (Adjust the needle to "O")
Insulation test	6 or 12 volts	Short out the ends of the test leads connected to the "X" terminals and adjust the indicator needle of the insulation meter to "O" by the adjusting knob. Attach the ends of the test leads across the points to be measured and the insulation value is indicated on the meter. **Example :** 1. Condenser insulation value Under 1MΩ ..... defective Condenser insulation value Over 5 MΩ ..... satisfactory 1. Various insulation tests may be performed.	 ① Black scale ② Adjusting knob ③ Power (6 V or 12 V) ④ Insulation ⑤ Turn the switch off ⑥ Condenser Discharge after the measurement Short out the terminal ⑦ Over 5 MΩ.....satisfactory ⑧ Under 1MΩ...defective ⑨ Condenser