

- 4) Set the OUTPUT ON/OFF switch of the Type 2558 to ON, successively set the output by the output setting dials as shown in Table 2-1, and measure the output voltage at each set point by means of the Model 931B.

- 5) From these values, check if the output voltages at each inspection point satisfy the specifications in the table.

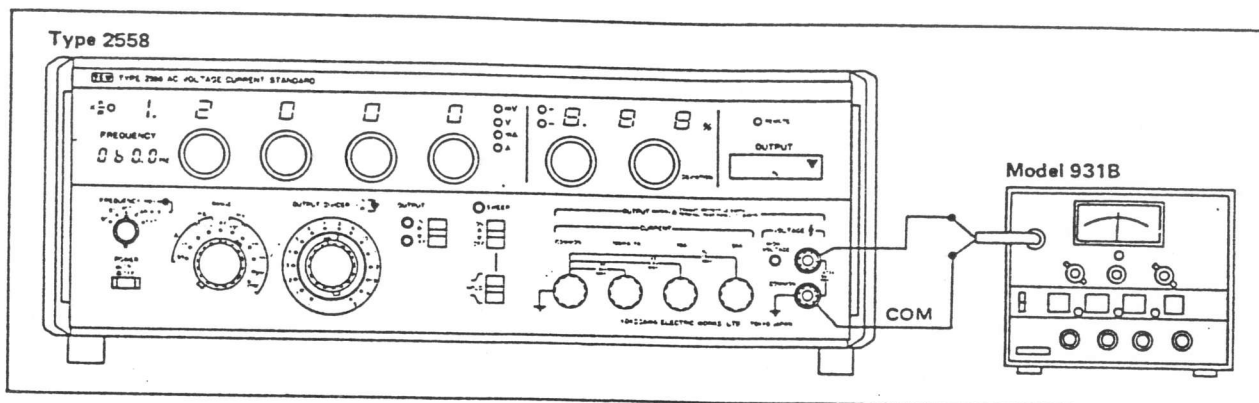


Figure 2-2. Setup for Voltage Output Accuracy Inspection (100 mV to 1000 V Ranges).

Table 2-1. Voltage Output Accuracy Inspection (50/60 Hz)

Type 2558		Model 931B	Allowable Error Range.
Range	Output Setting	Range	
10 V	00.100 V	10 V	± 2 mV
	01.000 V		± 2 mV
	02.000 V		± 3.1 mV
	03.000 V		± 3.9 mV
	04.000 V		± 4.7 mV
	05.000 V		± 5.5 mV
	06.000 V		± 6.3 mV
	07.000 V		± 7.1 mV
	08.000 V		± 7.9 mV
	09.000 V		± 8.7 mV
	10.000 V		± 9.5 mV
	11.000 V		± 10.3 mV
	12.000 V		± 11.1 mV
100 mV	010.00 mV	100 mV	± 20 μV
	050.00 mV		± 55 μV
	100.00 mV		± 95 μV
1 V	0.1000 V	1 V	± 200 μV
	0.5000 V		± 550 μV
	1.0000 V		± 950 μV
100 V	010.00 V	100 V	± 20 mV
	050.00 V		± 55 mV
	100.00 V		± 95 mV
300 V	0030.0 V	300 V	± 60 mV
	0150.0 V		± 165 mV
	0300.0 V		± 285 mV
1000 V	0100.0 V	1000 V	± 200 mV
	0500.0 V		± 550 mV
	1000.0 V		± 950 mV
Accuracy	± (0.08 % of setting + 0.015 % of range). Accuracy at output of less than 20 % of range is ± 0.02 % of range.		

### CAUTION

The accuracy inspection for voltage output is important to judge the quality of this instrument. For the inspection, use a calibrated Model 931B and correct the measured values according to the calibrated values.

### WARNING

When the RANGE selector is set at 300 V or 1000 V, the HIGH VOLTAGE lamp will light to warn that a high voltage is developed. Pay utmost attention to the dielectric strength of the circuitry and protection of the human body from electric shock.

A voltage as high as 1400 V (5 A) may appear instantaneously when turning ON or OFF power.

- (4) Voltage Output Accuracy (100 mV to 1000 V Ranges, 400 Hz).

- 1) After the step (3), set the FREQUENCY selector of the Type 2558 to 400 Hz.
- 2) As shown in Table 2-2, successively set outputs, and check if output voltages at each inspection point satisfy the values in the table.