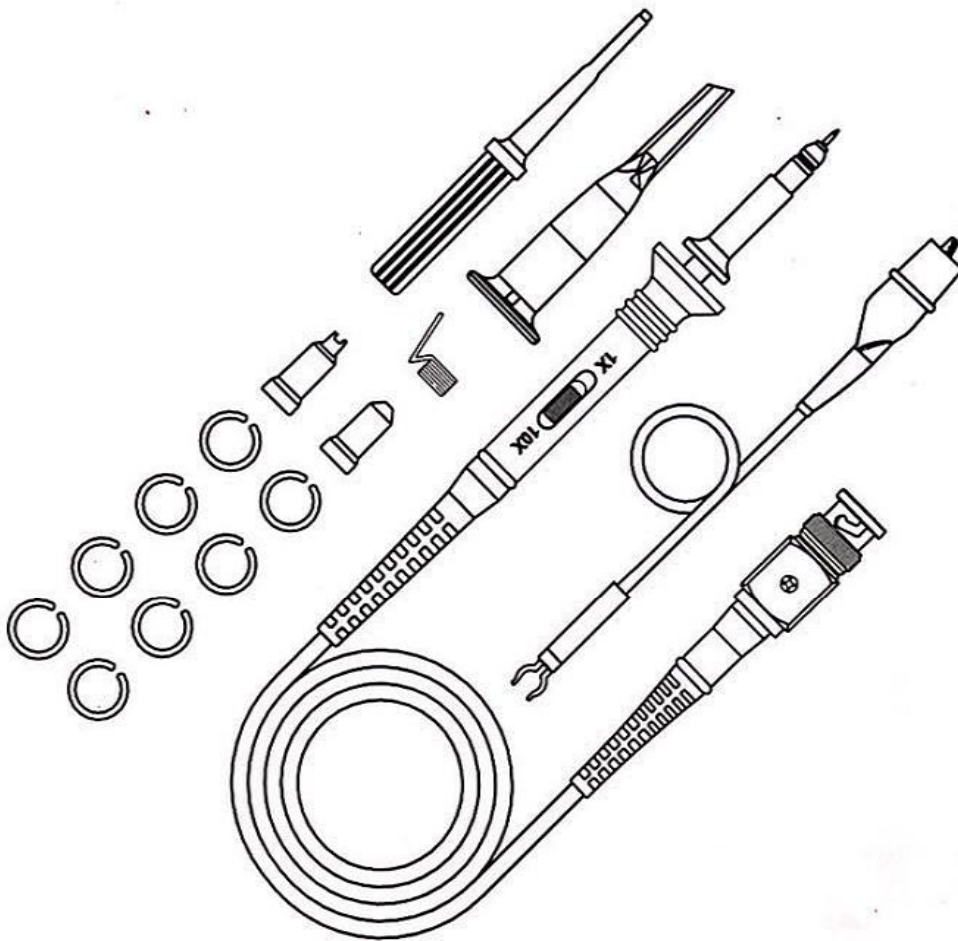


# User's Guide

**YPIIONEER®**

- P6020 20MHz
- P6040 40MHz
- P6060 60MHz
- P6100 100MHz
- P6150 150MHz
- P6200 200MHz



**P6000 1X&10X Oscilloscope Probe**

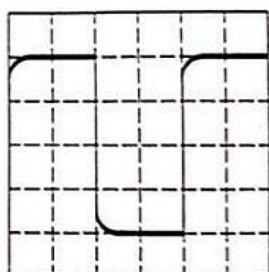


**SGS**

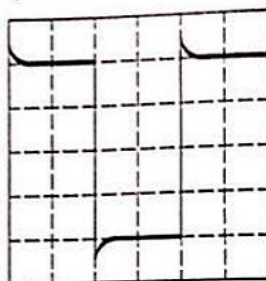
**CE**

## Frequency Compensation

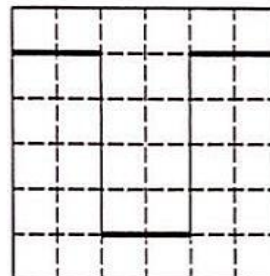
Before taking any measurements using a probe, first check the compensation of the probe and adjust it to match the channel inputs. Most oscilloscopes have a square wave reference signal available at a terminal on the front panel used to compensate the probe. Connect the probe to the signal source on your oscilloscope. Set the probe to 10X position. Adjust trimmer until seeing flat-top square wave on the display.



**Incorrect**

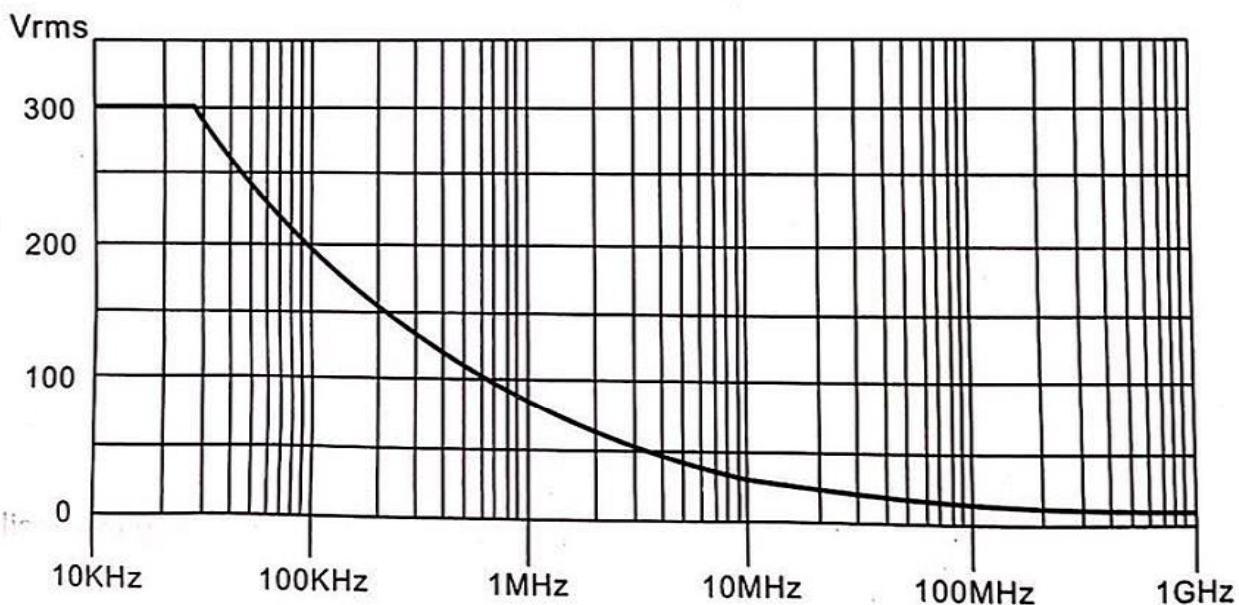


**Incorrect**



**Correct**

## Voltage vs Frequency Rating Curve(RMS)



**CAT II** IEC measurement category II is for measurements performed on circuits directly connected to low voltage installations. Examples are measurements on household appliances, portable tools and similar equipment.



Equipment fully protected by DOUBLE INSULATION or REINFORCED INSULATION.



Review this user manual carefully to avoid any personal injury or damage to this product and any product connected to it. To avoid potential hazards, use this product only as specified.



The measurement category of a combination of a PROBE ASSEMBLY and an accessory (an auxiliary to the measurement) is the lower of the measurement categories of the PROBE ASSEMBLY and of the accessory.

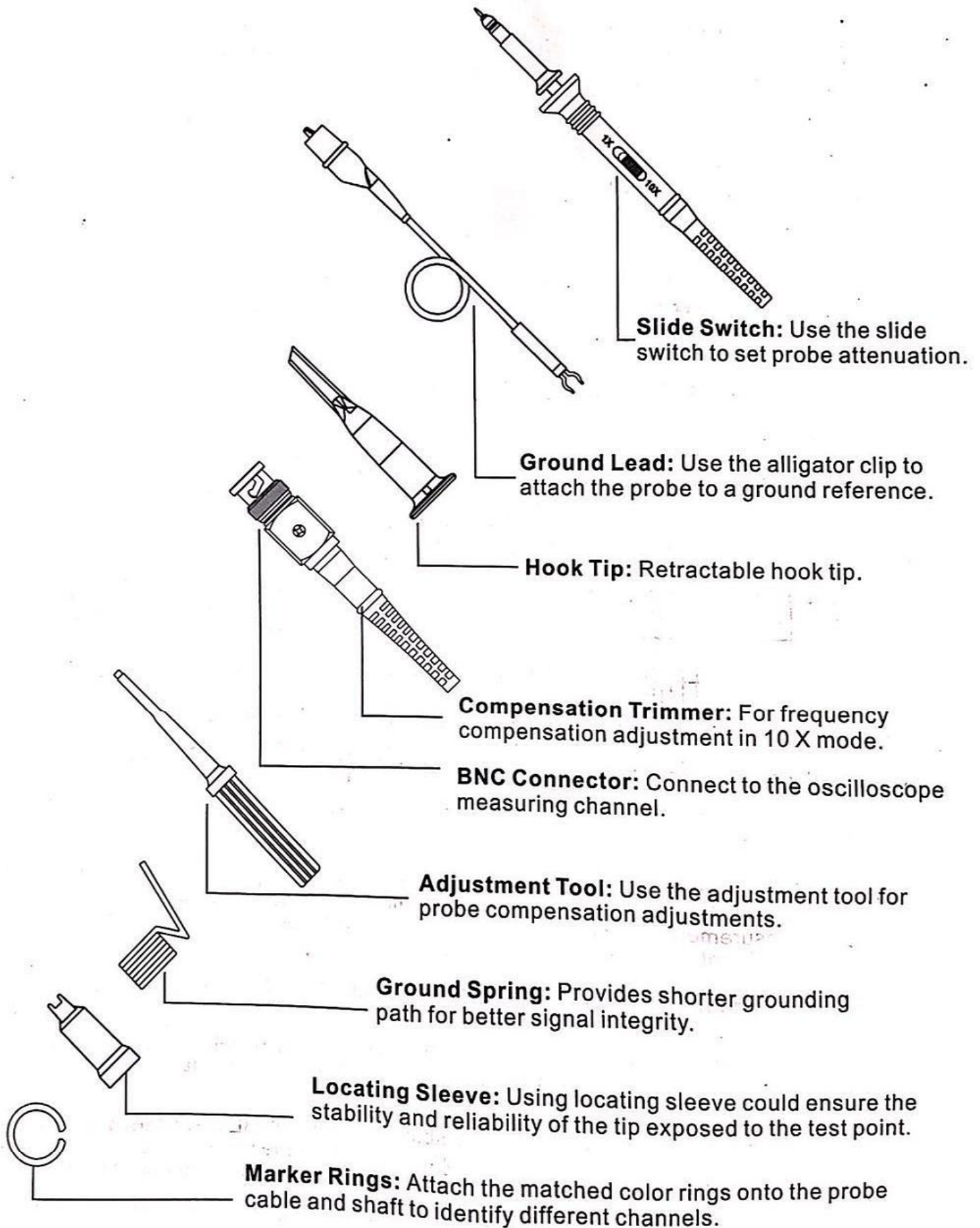


Follow the instructions to use the PROBE ASSEMBLY will impair or ruin its self-owned protection function.



## Accessories and Features



Probe is provided with several accessories designed to make probing and measurement simpler. Please take a moment to familiarize yourself with these accessories and their uses.



## Probe Characteristics

Model	P6020	P6040	P6060	P6100	P6150	P6200
Bandwidth	20MHz	40MHz	60MHz	100MHz	150MHz	200MHz
Rise time	17.5ns	8.75ns	5.8ns	3.5ns	2.3ns	1.75ns
Attenuation Ratio	1X&10X					
Input Resistance	1MΩ/10MΩ±2%					
Input Capacitance	1X:70pF~120pF					
	10X:14~18pF			10X:13~17pF		
Max. Input Voltage	1X:150V RMS CAT II&10X:300V RMS CAT II					
Compensation Range	15~45pF			10~35pF		
Operation Temperature	-10°C~+55°C					
Humidity	-40°C or below ≤90% +41°C to +50°C ≤60%					
Altitude	Operating 3000m Nonoperating 15000m					
Cable Length	110±2cm					
Weight	About 55g					
Safety	IEC61010-031					

## Accessory Kit

Item	Description	1PCS/ 	2PCS/ 
1	Retractable Hook Tip	1	2
2	Adjustment Tool	1	
3	Locating Sleeve	2	
4	Marker Rings	8	
5	Ground Lead	1	2
6	Ground Spring(Above 100MHz)	1	

**Note:**

content of this document are subject to change without notice.

Version 2019 1.0