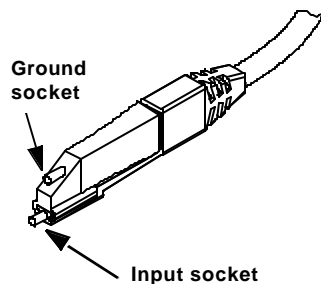


### 3 Features and Accessories

The HFP2500 probe is provided with numerous features and accessories to make probing and connecting to different test points easier than ever.

#### PROBE HEAD



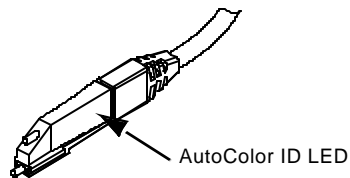
The small, low mass probe head is designed for ease of use and high performance.

The probe tip socket fits easily onto 0.025 inch square pins for direct access to test points. Several different adapters are available which connect directly in the probe socket.

The probe tip socket has a removable tip cartridge for easy replacement in case the probe socket gets damaged.

The ground socket will accept several different ground leads to provide a short ground path for high frequency performance.

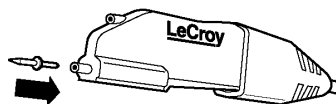
#### AUTOCOLOR ID



The AutoColor ID consists of an LED inside the probe head which illuminates the probe body in the default trace color of the channel to which the probe is connected.

The AutoColor ID will only function when the probe is connected to a LeCroy oscilloscope supplied with the ProBus interface and firmware version 8.7.0 or higher. The colors are correct when factory default color scheme 1 is selected.

#### DESCRIPTION OF STANDARD AND OPTIONAL ACCESSORIES



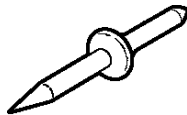
The following Tip and Clip accessories can be pushed into the probe tip socket, ground socket or any other socketed lead or adapter.

## HFP2500 High Frequency Probe

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### A. Tips

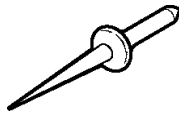
#### Straight Tip



The straight tip is rugged and designed for general probing. Fits in either probe socket.

PACC-PT001, package of 4.

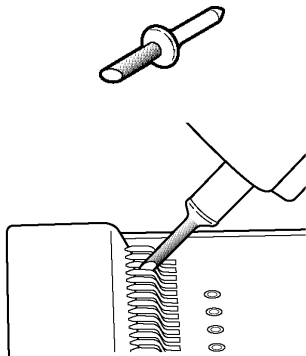
#### Sharp Tip



Rugged, titanium tip designed to connect to the smallest vias and small test points. Fits in either probe socket.

PACC-PT002, package of 4.

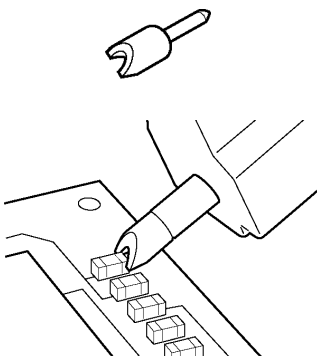
#### IC Lead Tip



Covered in insulation on all sides (except for a small edge), this tip was designed to prevent shorting neighboring IC leads. The gold part of the tip is not insulated and should touch the IC lead to be tested. It is one-size-fits-all and will work with any IC lead pitch. Fits in either probe socket.

PACC-PT003, package of 4.

#### SMD Discrete Tip

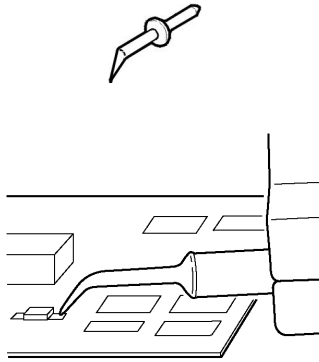


The crescent shape of this tip is designed to fit tightly on capacitors, resistors, transistors and other surface mount components with discrete leads. Fits in either probe socket.

PACC-PT004, package of 4.

## Features and Accessories

### Bent Sharp Tip

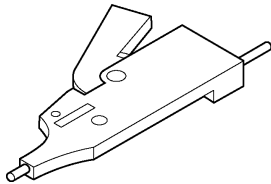


Made out of titanium, this tip is ideal for situations that require the user to hold the probe parallel to the circuit board under test. Also gives the user more control when holding the probe like a pencil. Fits in either probe socket.

PACC-PT005, package of 4.

### B. Clips

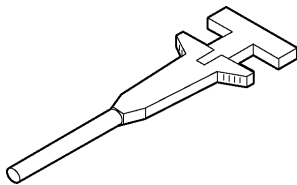
#### Micro Clip (0.5 mm)



A pincher like tip designed to hold onto fine pitch leads and small components, commonly found in SMD ICs. Fits in either probe socket, or can be used with a lead.

PACC-CL001, package of 4.

#### Clip (0.8 mm)

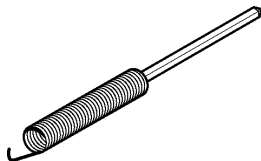


A pincher like tip designed to hold onto larger wires and components than possible with the Micro Clip, including through-hole mounted components.

This clip cannot be connected directly into either of the probe head sockets; it must be connected to a lead.

PK006-4, package of 2.

#### Ground Spring with Hook



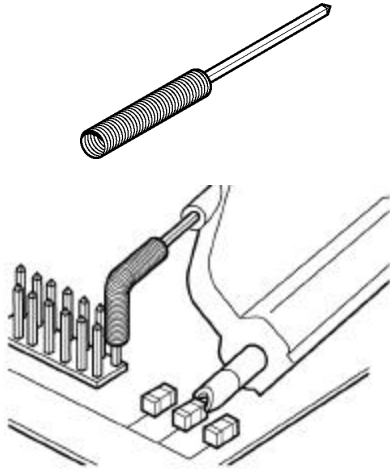
A flexible spring connected to a square pin that fits into either of the probe head sockets. Designed to be used as a ground lead, there is a hook on the end of the spring so that it can probe general circuits.

PACC-LD001, package of 4.

## HFP2500 High Frequency Probe

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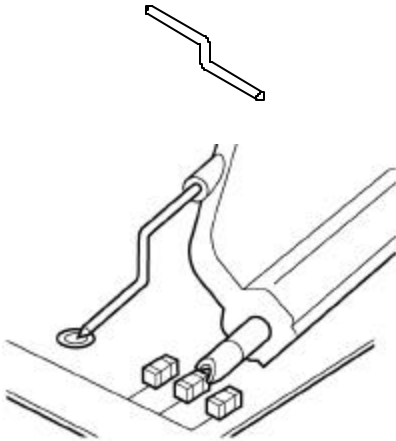
### Square Pin Ground Spring



A flexible spring connected to a square pin that fits into either of the probe sockets. Designed to be attached to a square pin on the circuit under test.

PACC-LD002, package of 4.

### Offset Pin



The offset pin is designed to be attached to either socket of the probe head. The offset pin is the highest quality grounding solution and is recommended in high frequency applications.

405400003, package of 1.

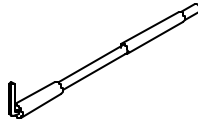
### C. Leads

While longer leads provide greater flexibility when connecting the probe to a circuit, the added inductance may degrade the fidelity of high frequency signals. See Section 4 for additional information.

## Features and Accessories

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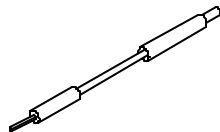
### Short and Long Right Angle Lead



This lead has a socket on one end and a bent square pin on the other to connect to the input or ground socket of the probe body, and may be used for general purpose probing.

PACC-LD003 (short), PACC-LD004 (long), packages of 4.

### Short and Long Single Lead



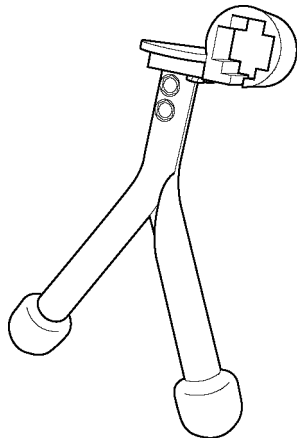
This lead can be used for either ground or input lead.

It has a socket on one end and a square pin on the other and may be used for general purpose probing.

PACC-LD005 (short), PACC-LD006 (long), packages of 4.

## D. Probe Holder

### *FreeHand* Probe Holder



*FreeHand* lets you focus on the oscilloscope screen instead of on maintaining contact to multiple test points. It allows the user to concentrate on what is really important – the waveform.

It is designed to keep most of the weight on the probe tip and will prevent lost contact when a bump to the table shakes the circuit under test.

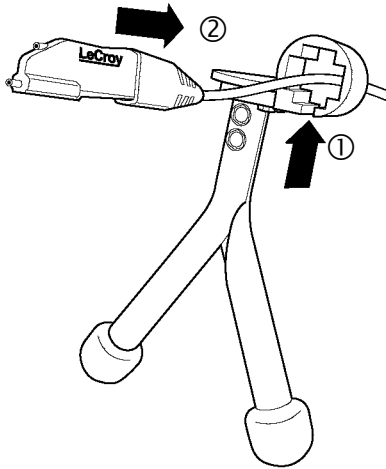
Additionally, the HFP probe can be mounted horizontally or vertically in the *FreeHand*, giving added measurement flexibility.

PACC-MS001, package of 1.

## HFP2500 High Frequency Probe

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### To use the FreeHand probe holder

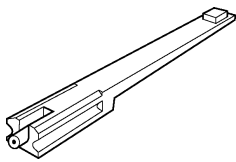


1. Slide the probe cable through the slot on the bottom of the translucent holder section.
2. Slide probe backwards in the probe holder.

Installing probe into *FreeHand*

### E. Cartridges

#### Replaceable Cartridge



If the input tip socket gets damaged, you don't have to replace the entire probe, because the HFP series active probe has a removable tip socket cartridge.

PACC-MS002, package of 1.

#### High Frequency Cartridge

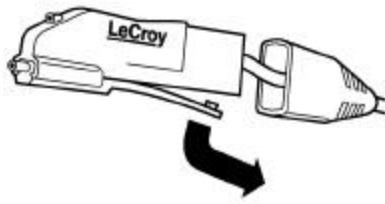
By having a fixed tip rather than a socket, the High Frequency cartridge is able to increase signal fidelity at higher frequencies.

PACC-MS003, package of 1.

## Features and Accessories

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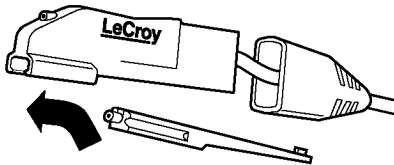
### Removal and Installation of the Replaceable Cartridge



Removing old cartridge

#### To remove old cartridge:

1. Slide the cable strain relief over the cable away from the probe body.
2. To release the latch, lift the part closest to the strain relief away from the probe body and slide the cartridge toward the strain relief.



Installing new cartridge

#### To install a new cartridge:

1. Slide the new cartridge onto the probe body until the latch engages.
2. Slide the cable strain relief forward to cover the back end of the probe body.

#### **Note:**

*The cable strain relief is polarized and fits over the probe body in one direction only.*

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## HFP2500 High Frequency Probe

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