VOLTAGE AND WAVEFORM INFORMATION FOR AMPLIFIER AND/OR PROBE

Basic Equipment Setup

P6046 Probe: Remove the top and bottom P6046 Probe body covers and connect a shorting strap between a front, center and a rear post. Follow the procedure given in the Maintenance section. Connect the Amphenol connector to either a Type 1A5 Plug-In Unit/Oscilloscope combination, or to an Amplifier For P6046.

Amplifier For P6046: Remove the covers from the Amplifier and its Power Supply unit. Connect the P6046 Probe to the Amplifier and connect the Power Supply Unit to an appropriate voltage source. Terminate the Amplifier's BNC connector with 50 Ω.

Warm up the equipment for at least 5 minutes. Then perform the Probe Step ATTEN BAL adjustment at the Type 1A5 or at the Amplifier For P6046, as appropriate.

Voltage and waveforms are referenced to ground except where otherwise indicated. They may vary slightly between instruments, and are also dependent upon the test equipment used.

NOTE

The voltages and waveforms are affected by gain switching, and indicated values apply only under the specified conditions.

(Continued on AMPLIFIER ⟨2⟩ diagram)

(Continued from DIFFERENTIAL PROBE 1 diagram)

Additional VOLTAGE Conditions

No signal applied to the Probe. Vertical deflection factor of 50 mV selected at the Type 1A5, or 200 mV selected at the Amplifier For P6046. Voltages obtained with a non-loading voltmeter.

Additional WAVEFORM conditions:

A Tektronix C12 Camera System and Projected Graticule were used to photograph the time-related waveforms. Equipment setup follows:

P6046 Probe: Amphenol plug connected to an Amplifier For P6046 Amplifier waveforms: Amphenol plug connected to either an Amplifier For P6046 or to a Type 1A5 for P6046 Probe waveforms.

—Input contact grounded

CAUTION

Do not scratch or bend the switch input contacts.

1-V square wave from Oscilloscope Amplitude Calibrator applied to + Input contact

AC-DC switch set at DC

Type 1A5 (Amplifier For P6046 may be substituted for the Type 1A5 as the Probe power source.)

VOLTS/CM set at 200 mV

PROBE STEP ATTEN BAL adjustment performed

Amplifier For P6046 (Type 1A5 may be substituted for the Amplifier For P6046 as the power source for Probe waveform observation.)

mVOLTS/DIV set at 200

BNC output connecter terminated with 50 Ω

ATTEN BAL adjustment performed

Test Oscilloscope

Vertical Deflection Factor: As indicated on each waveform

Horizontal Sweep Rate: 0.5 ms/div except as noted

Horizontal Triggering: Externally triggered by P6046 Probe input signal except as noted