

3.4.4 EXTERNAL (BANANA) INPUT/OUTPUT circuitry

- Introduction

See figure 3.10.

The ScopeMeter is provided with two banana connectors, which are used as inputs in the mV, DIODE, and OHM METER modes or as EXTERNAL trigger input in SCOPE mode. These connectors also serve as outputs for the built-in generator. Protection circuitry is provided to prevent damage by overvoltage.

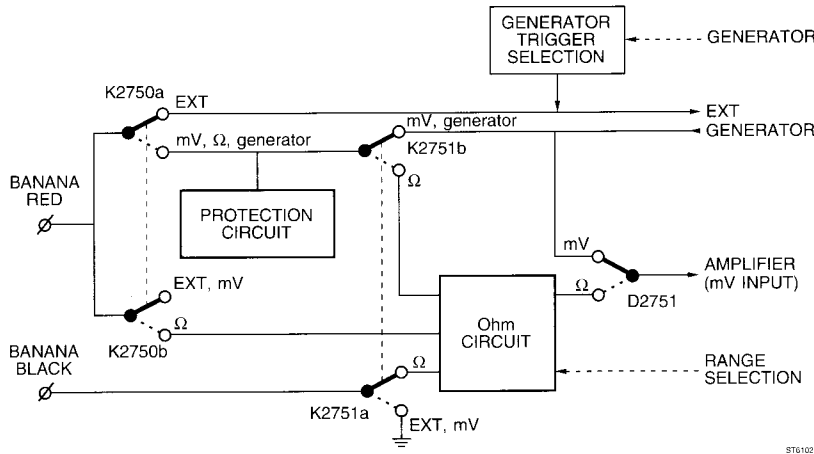


Figure 3.12 Schematic diagram signal flow in EXTERNAL (banana) input/output circuitry

- Detailed circuit description

See figure 3.10 and circuit diagram A2b (figure 10.6).

mV DC measurement circuitry

The mV DC input voltage on the red banana terminal is fed to the L.F. part of the channel A attenuator section, via the following path: R2750, K2750a, K2751b, R2761, D2751 (refer to circuit diagram A2b, figure 10.6). When the ScopeMeter is switched to mV DC measurement using the EXT banana terminals, the settings are as follows:

Table 3.4 A-ASIC and attenuator settings in mV DC mode

mV DC RANGE	A-ASIC (D2301)	LF-ATTENUATOR (channel A)
300 mV	100 mV/div	1*
3 V	100 mV/div	0.1*