

**SESS® SWITCHING EQUIPMENT  
FUSE/FILTER UNIT  
MODEL 5  
CIRCUIT**

### 1. GENERAL DESCRIPTION

The Fuse/Filter Unit model 5 (FFU5) accommodates five input feeds and provides output fuse protection for up to thirty circuits per unit. Normally, there are two units per frame.

### 2. DETAILED DESCRIPTION

An FFU5 consists of a sheet metal housing with the input feed connectors at the rear of the housing together with the output load connectors. The output fuses are located at the front. Each input at the rear is associated with a feed from a power distribution facility and consists of a capacitor and bleeder resistor, cables, and connectors. The FFU5 was derived from the older four-feed model, Schematic Drawing (SD) 5D087-01, J5D003BT

Beyond the obvious sheet metal changes to accommodate the extra feed, a 4700 $\mu$ f capacitor has been substituted for the older model's 16,000 $\mu$ f part.

The capacitor's smaller physical size allowed for the additional feed, but was primarily chosen to comply with new APR feature requirements. Under APR, the 16,000 $\mu$ f capacitor's power-up inrush current would have cleared the feed's power source fuse.

Provisions for a limited number of high-capacity fuses were accomplished by adding one more fuse block to the older front panel arrangement.

Not all fuse positions are active. Some were left unconnected because there were fewer available output power tabs at the rear than there were fuse positions at the front.

The alarm pin field at the rear of the unit was rearranged from an eight-pin field into a four-pin field that's twice as high.

Power and alarm connectors are identical to the older parts, but their Equipment Location (EQL) addresses have been shifted to match the new arrangements.

In all other respects, the FFU5 is identical to the older four-feed model.

3. ACRONYMS

APR Auto Power Recovery  
EQL Equipment Location  
FFU5 Fuse/Filter Unit model 5  
SD Schematic Drawing

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