



**GE Drives**

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***INSTRUCTIONS***

**GENERAL PURPOSE  
RELAY CARD  
193X562AAG06**

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*These instructions do not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to General Electric Company.*

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## GENERAL

This instruction hook provides the basic information required to check out the **GENERAL PURPOSE RELAY CARD**. Refer to the system diagrams for information as to the use of this card in the overall system.

### DESCRIPTION

The General Purpose Relay card contains six relays and associated circuitry.

The relay circuitry is designed to operate from a 115 volt AC, 50/60 Hz source. A rectifier bridge, capacitor, and dropping resistor are used to obtain the nominal 48 volt DC relay operating voltage. Each relay has two form "C" contact pairs brought out to the terminal strip. LED indicators are provided in each coil circuit to indicate excitation of the coil circuitry.

NOTE: With low voltage input, it is possible to illuminate the LED without picking up the relay contacts.

### PERFORMANCE

#### NOMINAL COIL VOLTAGE

115V AC  $\pm 10\%$ , 50/60 Hz  
Pull in 98V; Drop out by 12V.

#### COIL CURRENTS

1. Nominal coil current is 22ma/relay
2. Since this is a DC operated coil, there is no major current inrush. The only inrush is the charging of the 2.0uf capacitor through 8.2K or about 20 ma with a time constant of 18ms.

#### OPERATING TIME

1. Pickup time: 13ms. nominal; 18ms. maximum.
2. Drop out time: 18 ms. nominal; 32ms. maximum.

#### CONTACT RATING

1. High Current Level 1.0 amp resistive load 115V AC 50/60 Hz or 29 VDC.
2. Pilot Duty: .2 amp holding. 1.0 amp inrush at 115V AC.
3. Low Current Level: 30ua @30mV.

NOTE: A relay which has been used to switch "power" circuits may no longer reliably switch "dry" circuits. When several General Purpose Relay cards have been furnished, if removed, each card should be returned to its original receptacle.

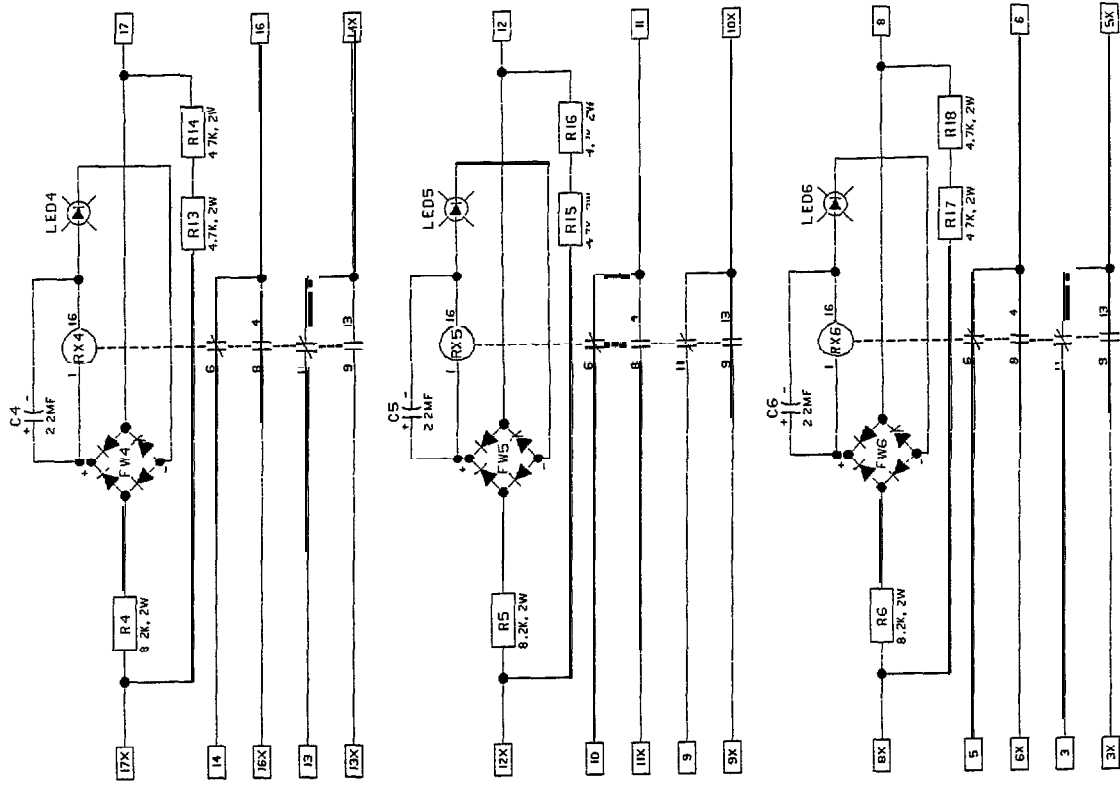
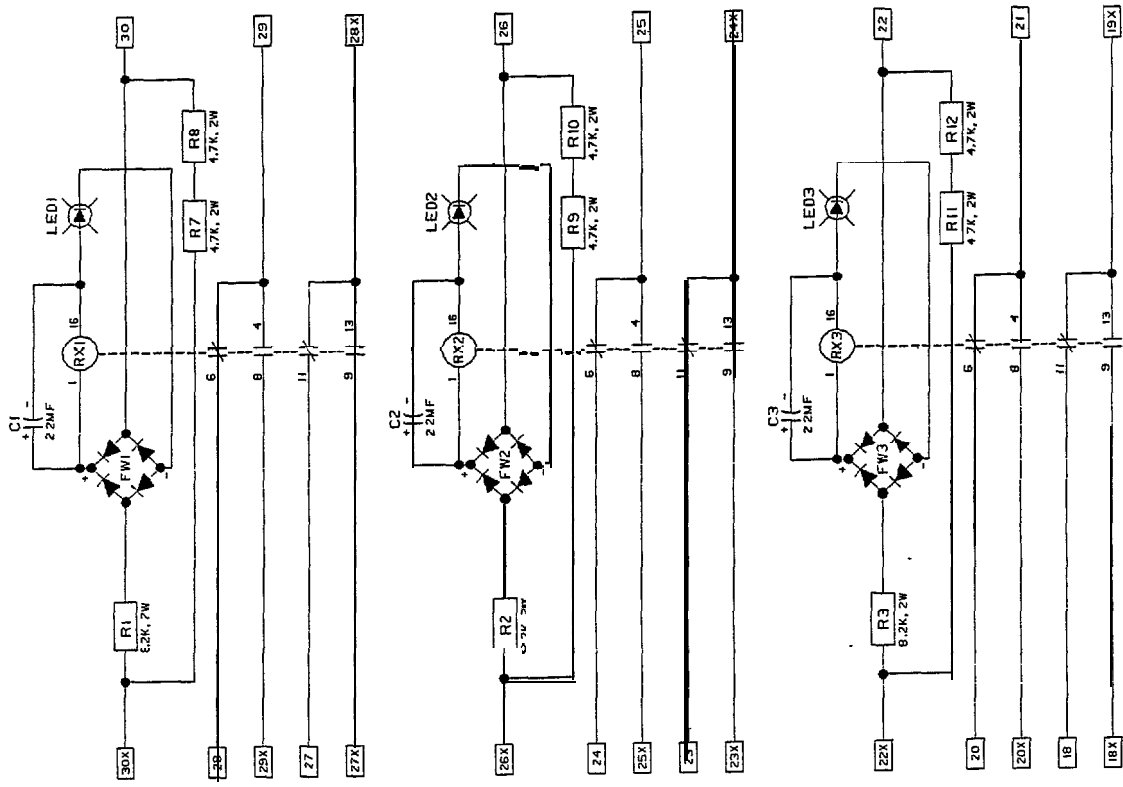
### START/UP

Verify that the relays pick up and drop out at the appropriate time.

### TROUBLESHOOTING

Verify that the contacts are opening and closing properly when power is applied to the coil.

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GEK-24966A (11/88) 1M (P)

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