INSTRUCTIONS FOR STANDBY TRANSFER RELAY 19A148621G1 (OPTION SU01)

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DESCRIPTION

The Standby Transfer Relay option consists of a coaxial relay which may be used to enable a voice channel RCU to provide back-up for a failed control channel RCU. The relay transfers combiner ports so that the voice channel RCU may be reprogrammed to operate on the control channel frequency. Auxiliary contacts on the relay provide a positive feedback indication of relay operation.

The combiner input ports for the control channel and the voice channel used for standby, must be located vertically adjacent in the same 4-channel module of the combiner. The relay may be mounted on either side of the combiner (see the Installation Instructions).

In the RF path, the transfer relay is connected between the combiner and the cables from the RCU transmitters. The relay is operated from a 24 VDC source. In systems using DC powered receiver multicouplers, the 24 VDC source may be accessed at the terminal block on the rear of the multicoupler. If the 24 VDC power must be obtained from a different rack, the source should be fused for 2 Amps. The fuse is not supplied as part of the relay kit.

OPERATION

The following sequence must be observed when using the relay to provide voice channel RCU back-up for a failed control channel RCU. These procedures will normally be performed remotely at the MTX.

1. Reset both the control channel and the standby voice channel to insure that no RF is applied to the relay.

CAUTION

The relay must not be operated while RF is being applied. Any attempt to actuate or release the relay while RF is applied will result in permanent damage to the relay.

2. Operate the relay control circuit.

3. Observe the alarm indication from the auxiliary contacts of the relay to verify that the relay is in the correct operating position.

4. Re-program the standby voice channel RCU for the desired control channel operation and return it to service.

NOTE

The same sequence must be followed when normal operations are resumed after the failed control channel RCU has been repaired. If the control channel RCU must be removed from the system to be repaired, attach a 50-ohm load to the vacant combiner input because the combiner will not operate properly with an unloaded port.

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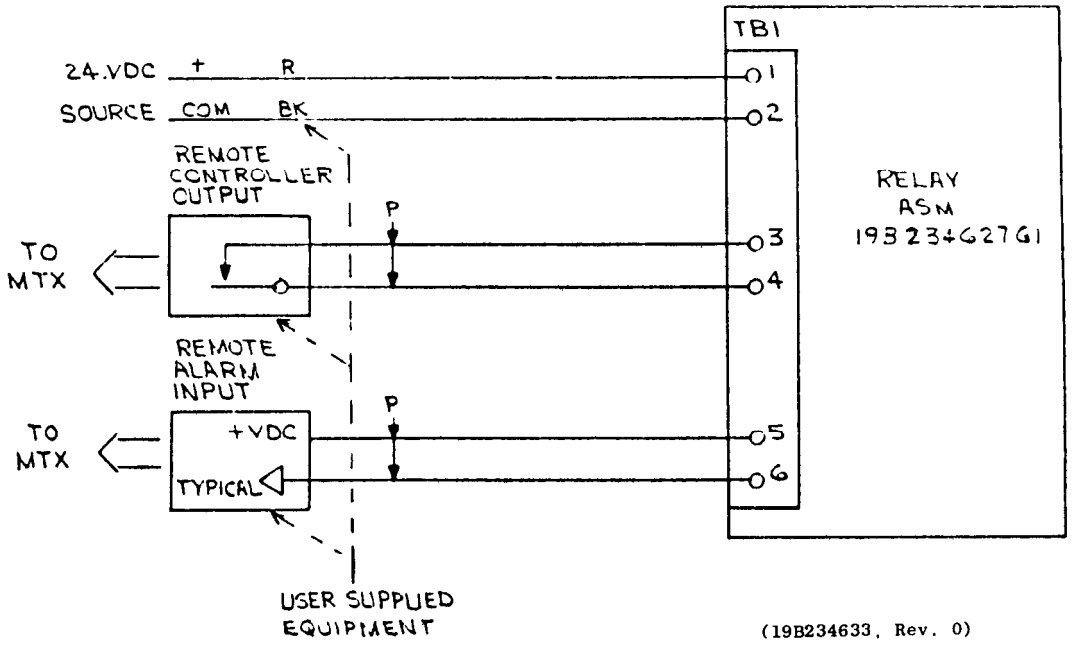
INTERCONNECTION DIAGRAM



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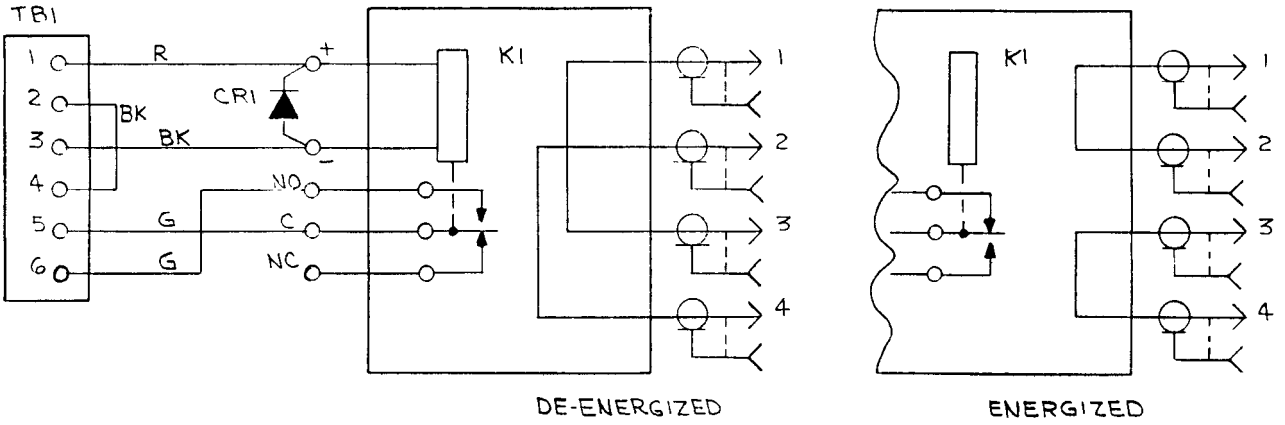
SCHEMATIC DIAGRAM

RF CIRCUIT



ALL WIRES ARE SF22

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