

## CIRCUIT OPERATION

1.00 FIGS. $1 \mathrm{~A}, 2 \mathrm{~A}$ and 2 B
1.01 Seizure

Ground forwarded on terminal AR closes relay AR. Ground is connected to the allotter miltiple bars associated with terminals (1) and (5) (terminals (2) and (12) of FIGS. 2A and 2B). Relay AR operates and closes relays 10 and 1 (relays 20 and 1 of FIG. 2A). Relays 10 and 1 operate ( 20 and 1 of FIG. 2A), lock to ground on terminal LK and switch leads "+", "-", C and EC through to the bank multipie bers. After the call has been switched through, ground is removed from terminal AR, opening relay AR. Relay AR restores.

### 1.02 Release

Removal of ground from lead LR opens the TENS and UNITS relay ( 10 and 1 of FIGS. 1A and 2R and 20 and 1 of FJG. 2A in this example). The TENS and UNITS relays restore and disconnect leads " + ", "-", C and EC fron: the multiple bars. The circuit is now at normal.
2.00 FIGS. 3A, 3B, 4A, 4B and 5A

Operation is similar to that described in Section 1.01 except that the ground is connected to the allotter multiple bars associated with terminals (1) or (2) and (21) or (23) ("S" or " $\mathrm{R}^{\prime}$ " wiring). Locking ground of the UNITS relay of FIGS. 3B and 4B is through terminal LKU (" T " or " U " wiring). Switch-through leads are " + ", "-" and C only.
3.00 FIGS. 6A and 10A

Operation is similar to that described in Section 1.00 except that ground is connected to the allotter multiple bar associated with terminals (1) and (23) (assumes that the crossconnect terminal strip Al0 is connected to Cl0). Switchthrough leads of FIG. 6A are " + ", "-" and C only.
4.00 FIGS. 7A, 7B, 8A, 8B and 9A

Operation is similar to that aescribed in Section 2.00 except that the switch-through leads are " + ", "-", C and EC.
5.00 FIGS. 11A, 11B, 12A and 13A

### 5.01 Seizure

Ground forwarded on terminal AR closes relay AR. Ground is connected to the allotter multiple bars associated with terminals (1) and (23) or (2) and (21) ("S" or "R" wiring). Relay AR operates and closes relays 10A, $10 B$ and 1 (relays TOA, TOB and UU of FiG. 11B). Relays $10 \mathrm{~A}, 10 \mathrm{~B}$ and 1 operate (TOA, TOB and UO of FIG. 1?B), lock to ground on lead LR and switch leads $+1,-1, T, R, C 0, ~ E C 2, ~ E C 1$ and CF (T1, R1, TO, RO, $\mathrm{H}, \mathrm{ECl}, \mathrm{ECO}$ and CR of FIG. 11B) through to the bank multiple bars. After the call has been switched througn, ground is removed from temminal AR. Relay AR restores.

### 5.02 Release

Removal of ground from lead LK opens the TENS and UNITS relays. Relays 10A, 10 B and 1 (TOA, TOB and vo of FIG. I1B) restores and disconnects leads $+\mathrm{L},-\mathrm{L}, \mathrm{T}, \mathrm{R}, \mathrm{CO}, \mathrm{EC} 2, \mathrm{ECl}$ and CF (Tl, R1, TO, RO, H, ECl, ECO and CR of FIG. 11B) from the bank multi.ple bars. This circuit is now at normal.

### 6.00 FIG. 15A

Operation is similar to that described in Section 1.00 except that ground is connected to the allotter multiple bars associated with terminals (2) and (2i) and switch-through leads are designated $+2,-2$, C2 an:d EC2.

