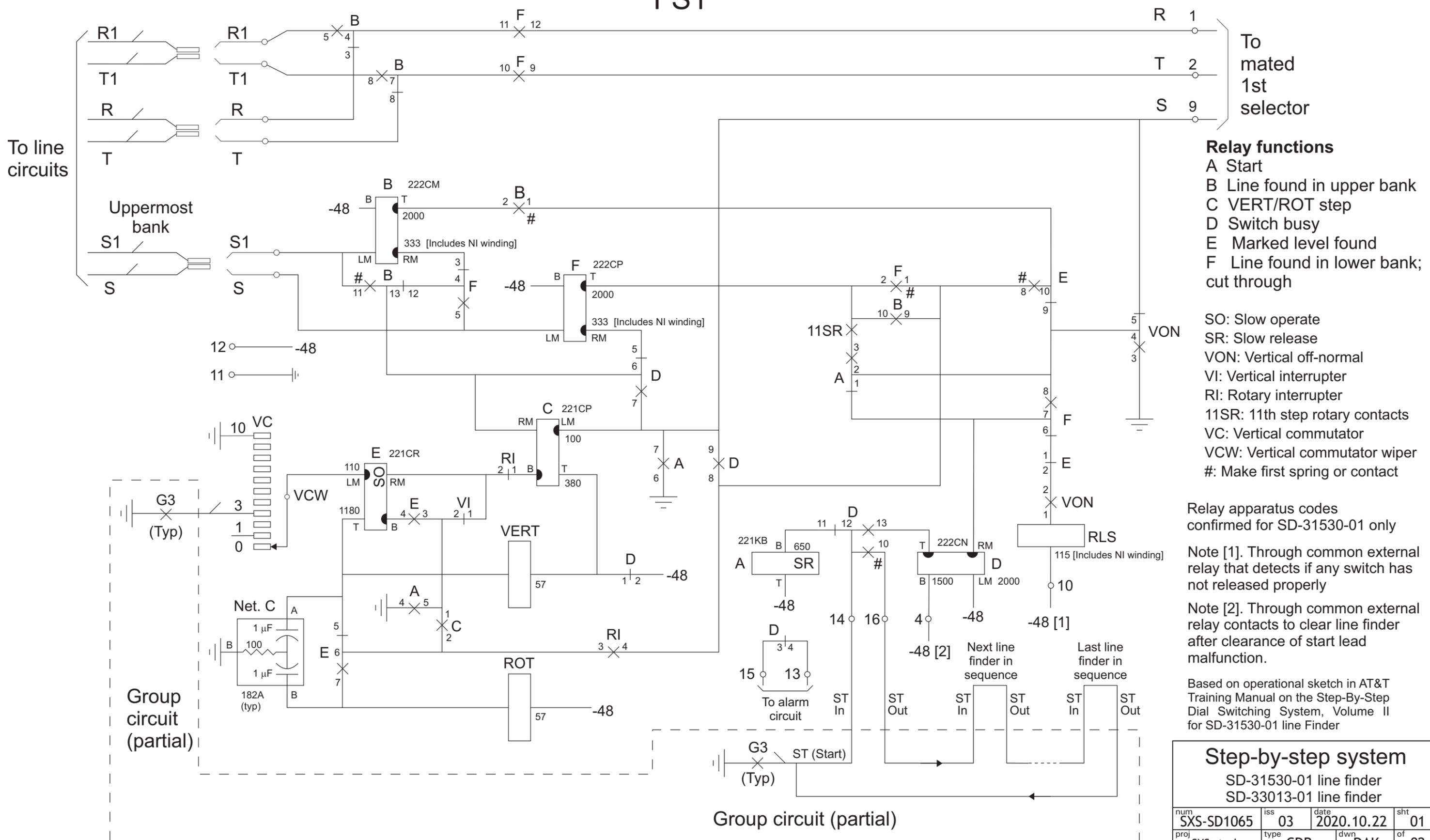


# FS1



- Relay functions**
- A Start
  - B Line found in upper bank
  - C VERT/ROT step
  - D Switch busy
  - E Marked level found
  - F Line found in lower bank; cut through

- SO: Slow operate
- SR: Slow release
- VON: Vertical off-normal
- VI: Vertical interrupter
- RI: Rotary interrupter
- 11SR: 11th step rotary contacts
- VC: Vertical commutator
- VCW: Vertical commutator wiper
- #: Make first spring or contact

Relay apparatus codes confirmed for SD-31530-01 only

Note [1]. Through common external relay that detects if any switch has not released properly

Note [2]. Through common external relay contacts to clear line finder after clearance of start lead malfunction.

Based on operational sketch in AT&T Training Manual on the Step-By-Step Dial Switching System, Volume II for SD-31530-01 line Finder

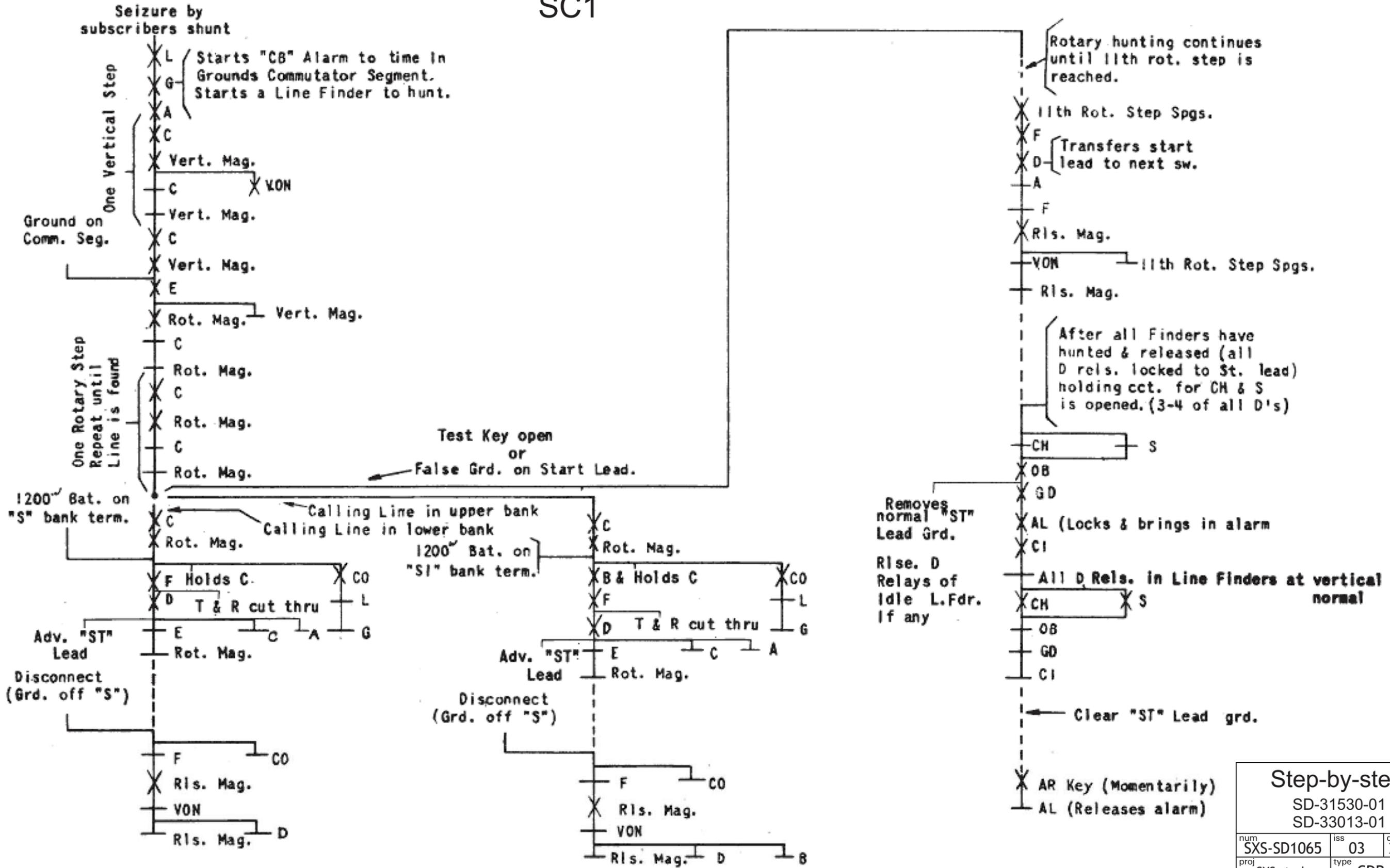
## Step-by-step system

SD-31530-01 line finder  
SD-33013-01 line finder

num	iss	date	sht
SXS-SD1065	03	2020.10.22	01
proj	type	dwn	of
SXS study	CDR	DAK	02

laboratories dak  
scientific and technical undertakings  
Alamogordo, New Mexico

# SC1



<b>Step-by-step system</b>				
SD-31530-01 line finder SD-33013-01 line finder				
num SXS-SD1065	iss 03	date 2020.10.22	sht 02	
proj SXS study	type CDR	dwn DAK	of 02	
laboratories dak scientific and technical undertakings Alamogordo, New Mexico				