

SWITCHING SYSTEM NO. 400  
CALL PROGRESS INDICATOR SET  
OPERATING METHODS

1.00 GENERAL

1.01 This section describes a method for utilizing the call progress indicator set in the switching system No. 400 which consists of two parts:

- A portable box equipped with indicating lamps and a plug-ended cable.
- Mating connectors in the switching system No. 400 with wiring from make contacts of relays in the marker and the connector portions of the register and line, link, and connector circuits.

2.00 OPERATING METHOD

2.01 Connect the plug-ended cable from the call progress indicating unit to the correspondingly numbered jacks in the equipment located at the top of slide 2.

2.02 A lamp on the indicating unit will light when a correspondingly designated relay in the system operates.

Note: Due to speed of relay operation and release, the HMK lamp operation cannot normally be detected unless a release failure of the relay is encountered.

2.03 The indicating lamps will show the progress of each service or test call handled by the system.

2.04 The grouping arrangement of the lamps, which relate to a particular connecting circuit function, are shown in Fig. 1.

2.05 Red, green, and white lamp caps are provided on the unit lamp panel to make lamps within a group more readily distinguishable from one another. In some instances, a green lamp will indicate the start of a particular marker function (LSA - link start) and a red lamp the end of a function (LE - link end).

2.06 The indicating lamps are to be regarded as a maintenance aid but will not substitute for a thorough knowledge of the method of operation of the circuits which the lamps monitor.

2.07 A list of the lamps and their functional meaning are shown in Table A.

2.08 For additional information, refer to CD and SD-69472-01.

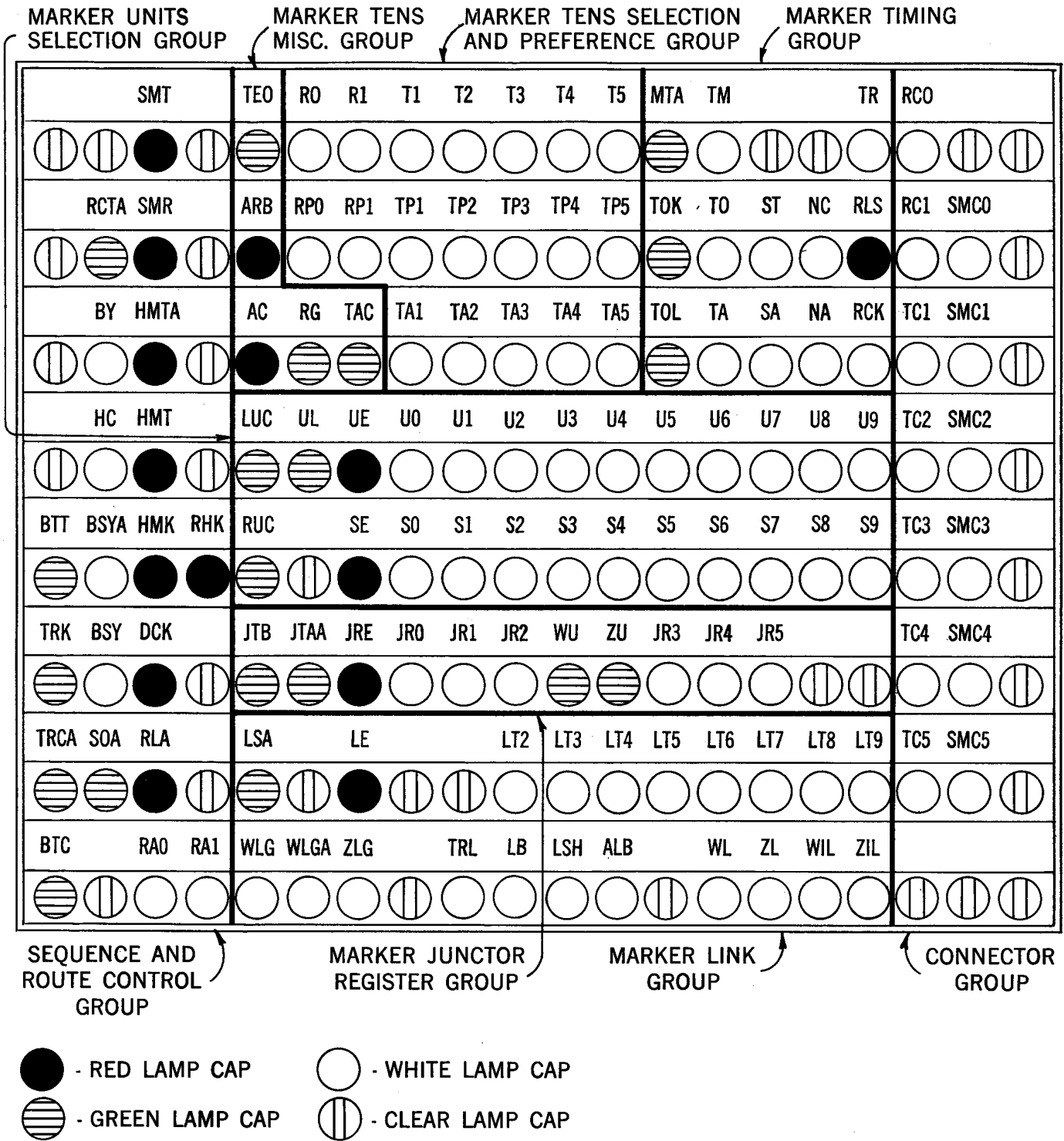


Fig. 1 - Call Progress Lamps, Front View

TABLE A  
CALL PROGRESS LAMPS

LAMP DESIGNATION	FUNCTIONAL MEANING	LAMP DESIGNATION	FUNCTIONAL MEANING
<b>MARKER TENS SELECTION AND PREFERENCE GROUP</b>		<b>MARKER TIMING GROUP</b>	
R (0, 1)	Register	MTA	Marker timing
RP (0, 1)	Register preference	NA	No connection auxiliary
T (1-5)	Line tens	NC	No connection
TA (1-5)	Line tens auxiliary	RCK	Release check
TP (1-5)	Tens preference	RLS	Trouble release
		SA	Second trial auxiliary
		ST	Second trial
		TA	Time-out auxiliary
		TM	Timing
		TO	Time-out
		TOK	Time-out check
		TOL	Time-out lock
		TR	Trouble relay
<b>MARKER TENS MISCELLANEOUS GROUP</b>			
AC	Abandoned call		
ARB	All registers busy		
RG	Register group		
TAC	Tens auxiliary connector		
TEO	Tens end		
<b>MARKER UNITS SELECTION GROUP</b>		<b>MARKER SEQUENCE AND ROUTE CONTROL GROUP</b>	
LUC	Line units connector	BSY, BSYA	Circuits busy
RUC	Register units connector	BTC	Busy tone trunk connector
S (0-9)	Sleeve	BTT	Busy tone
SE	Sleeve end	BY	Busy test
U (0-9)	Units	DCK	Down check
UE	Units end	HC	Hunt connector
UL	Units lock	HMK	Hold magnet check
		HMT, HMTA	Hold magnet timing
		RA (0, 1)	Register allotter
		RCTA	Register cut-through auxiliary
		RHK	Register hold magnet check
		RLA	Release auxiliary
		SMR	Select magnet register
		SMT	Select magnet timing
		SOA	Sleeve operate auxiliary
		TRCA	Terminating route complete auxiliary
		TRK	Terminating route check
<b>MARKER JUNCTOR REGISTER GROUP</b>		<b>CONNECTOR GROUP</b>	
JR (0-5)	Junctor register	RC (0, 1)	Register connector
JRE	Junctor register end	SMC (0-5)	Selector magnet connector
JTAA, JTB	Junctor terminating	TC (1-5)	Tens connector
WU, ZU	Units sequence W-Z		
<b>MARKER LINK GROUP</b>			
ALB	All link busy		
LB	Link busy		
LE	Link end		
LSA	Link start auxiliary		
LSH	Link shift		
LT (2-9)	Link test		
TRL	Transfer links		
WIL, WL, ZIL, ZL	Link sequence W-2		
WLG, ZLG	Units sequence W-Z		
KLGA	W auxiliary		