

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.

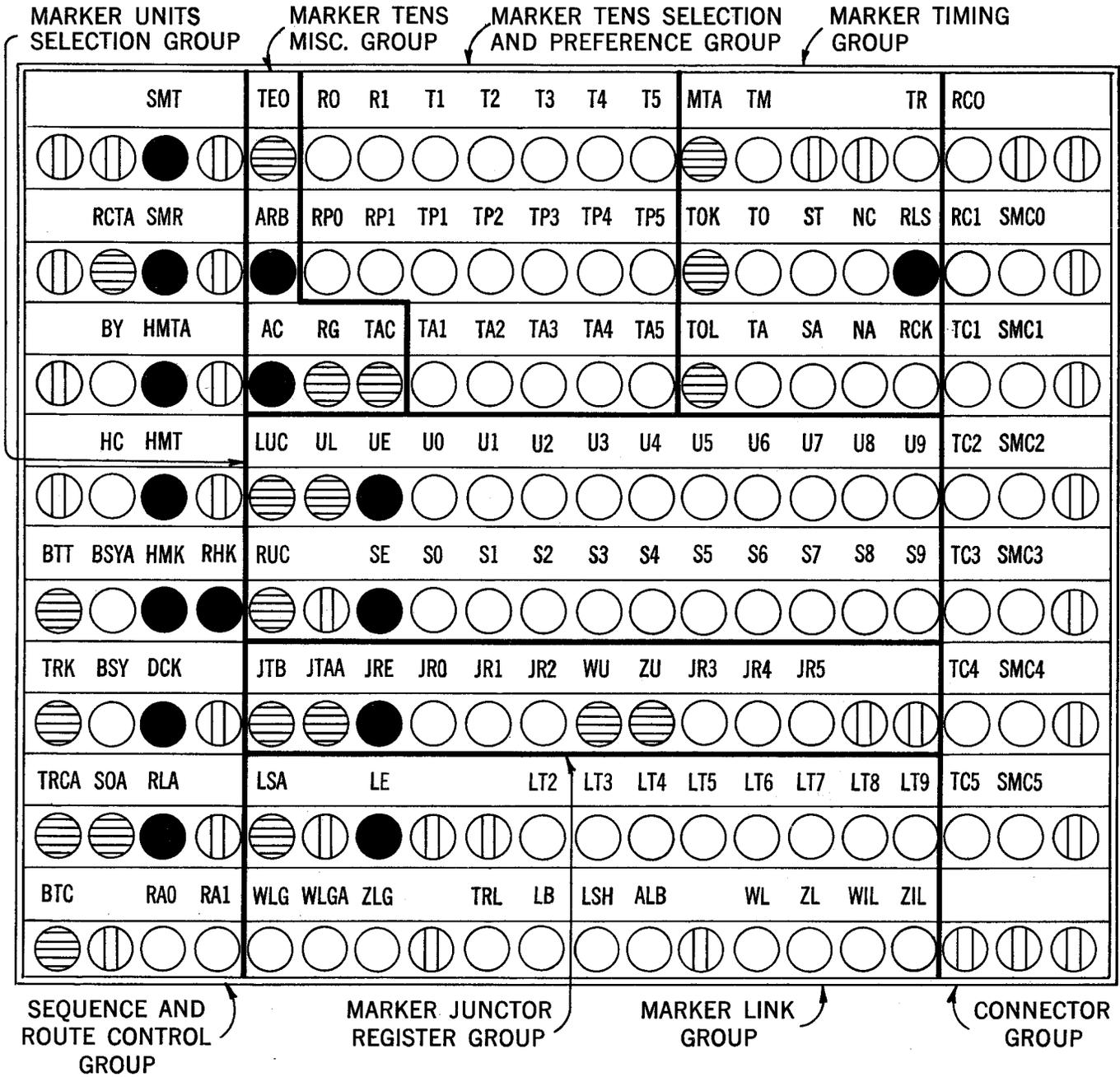
2.04 The grouping arrangement of the lamps, which relate to a particular connecting circuit function, are shown in Fig. 1.

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.



-  - RED LAMP CAP
-  - GREEN LAMP CAP
-  - WHITE LAMP CAP
-  - CLEAR LAMP CAP

Fig. 1 - Call Progress Lamps, Front View

TABLE A

CALL PROGRESS LAMPS

LAMP DESIGNATION	FUNCTIONAL MEANING	LAMP DESIGNATION	FUNCTIONAL MEANING
MARKER TENS SELECTION AND PREFERENCE GROUP		MARKER TIMING GROUP	
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
MARKER TENS MISCELLANEOUS GROUP		SA	Second trial auxiliary
AC	Abandoned call	ST	Second trial
ARB	All registers busy	TA	Time-out auxiliary
RG	Register group	TM	Timing
TAC	Tens auxiliary connector	TO	Time-out
TEO	Tens end	TOK	Time-out check
MARKER UNITS SELECTION GROUP		TOL	Time-out lock
LUC	Line units connector	TR	Trouble relay
RUC	Register units connector	MARKER SEQUENCE AND ROUTE CONTROL GROUP	
S (0-9)	Sleeve	BSY, BSYA	Circuits busy
SE	Sleeve end	BTC	Busy tone trunk connector
U (0-9)	Units	BTT	Busy tone
UE	Units end	BY	Busy test
UL	Units lock	DCK	Down check
MARKER JUNCTOR REGISTER GROUP		HC	Hunt connector
JR (0-5)	Juncture register	HMK	Hold magnet check
JRE	Juncture register end	HMT, HMTA	Hold magnet timing
JTAA, JTB	Juncture terminating	RA (0, 1)	Register allotter
WU, ZU	Units sequence W-Z	RCTA	Register cut-through auxiliary
MARKER LINK GROUP		RHK	Register hold magnet check
ALB	All link busy	RLA	Release auxiliary
LB	Link busy	SMR	Select magnet register
LE	Link end	SMT	Select magnet timing
LSA	Link start auxiliary	SOA	Sleeve operate auxiliary
LSH	Link shift	TRCA	Terminating route complete auxiliary
LT (2-9)	Link test	TRK	Terminating route check
TRL	Transfer links	CONNECTOR GROUP	
WIL, WL, ZIL, ZL	Link sequence W-2	RC (0, 1)	Register connector
WLG, ZLG	Units sequence W-Z	SMC (0-5)	Selector magnet connector
KLGA	W auxiliary	TC (1-5)	Tens connector