METHOD OF TRACING

STUCK ORIGINATING REGISTER

OUTPULSING CONTROLLER CONNECTIONS

COMMON CONTROL

STEP-BY-STEP SYSTEMS

1. GENERAL

1.01 This section covers the procedure for tracing stuck originating registers and, when provided, outpulsing controllers, held out of service due to trouble time-out. Information is provided to determine where, in its sequence of operation, the register and outpulsing controller stuck.

2. APPARATUS

2.01 322A (make-busy) plugs, as required.

3. METHOD

Holding Stuck Originating Registers and Outpulsing Controllers

3.01 H- key at the jack, key, and lamp circuit must be operated to the H1 or HN position to hold out of service originating register outpulsing control circuits, which have timed out. When the H- key is in the HN position a maximum of five (predetermined in accordance with the strapping of the B- resistors) originating register outpulsing controller circuits will be held out of service for trouble tracing. When in the H1 position only one originating register outpulsing controller circuit will be held out of service.

3.02 HKO guard lamp lighted indicates H- key is operated to the H1 or HN position.

3.03 An OR- lamp lighted steadily indicates the associated originating register outpulsing controller circuit is off-normal. A flashing OR-lamp indicates the associated originating register outpulsing controller circuit is stuck and held out of service for tracing and maintenance.

3.04 When the H- key is in the H1 position and an originating register outpulsing controller circuit times out, a minor alarm will be sounded and the RHMN lamp will be lighted. The alarm may be retired by operating the RHMN-CO key which will retire the alarm, extinguish the RHMN lamp, and light the RHMN-CO lamp.

3.05 When the H- key is in the HN position and less than the predetermined number of originating register outpulsing controller circuits time out, the same conditions apply as mentioned in 3.04. When the predetermined number of originating register outpulsing controller circuits time out, a major alarm will be sounded and the RHMJ lamp will be lighted. The major alarm may be retired by operating the RHMJ-CO key which will retire the alarm, extinguish the RHMJ lamp, and light the RHMJ-CO lamp.

3.06 HT- keys located at the jack, key, and lamp circuit provide a means of holding the associated trunk when an originating register outpulsing controller circuit times out. With the HT-key operated the trunk will be held until the originating register outpulsing controller circuit is released (3.07).

3.07 Held originating register outpulsing controller circuits may be released by inserting a 322A plug in the associated OR-RL jack.

Identification of Stuck Originating Registers and Outpulsing Controllers

3.08 As explained in 3.03, a flashing OR- lamp identifies which originating register and outpulsing controller is stuck. By observing the

relays which are operated in the identified originating register and outpulsing controller, it can be determined that the originating register and outpulsing controller stuck from trouble time-out:

(a) Before dial tone.

(b) During translator decoder seizure.

(c) After keying or dialing complete.

(d) During outpulsing or outpulsing controller.

3.09 If the office is equipped for controlled outpulsing, a trouble ticket will be produced from a trouble time-out in which the originating register outpulsing controller circuit seizes a translator decoder. This would cover conditions (b), (c), and (d) in 3.08. Section 227-700-300 provides information for analyzing these trouble tickets.

3.10 If the office is not equipped for controlled outpulsing local procedure should be followed for preparing a trouble ticket to indicate originating register outpulsing controller trouble.

3.11 The trouble ticket should contain information to identify the line finder, the register trunk and link, the selectors and connector, the trunk, originating register and outpulsing controller circuit; the relays operated in the originating register and outpulsing controller circuit, including the insteering, outsteering, arbitrary digit relays and digits registered relays, and the trouble found.

TABLE A

PARAGRAPH 3.08	RELAYS OPERATED	NOTE
(a)	SLT, ON, SLT1, DCK, ON1, TA1, WLF, CTR	
(b)	ON, TDST, TDSA, TA1, ON1, LTO, WLF, CTR	Decoder is not furnished for TOUCH-TONE without common control.
(c)	ON1, ON, STT, TA1, PKC, WLF, CTR	
(d)	ON1, ON, SLT1, DCK, SLT, IC, TA1, CTR	Outpulsing controller is not furnished for TOUCH-TONE without common control.