

ERC-19522-1 -2 RECORDER COUPLERS, ERC-19522 -11 VOICE CONTROL UNIT IDENTIFICATION, INSTALLATION, AND CONNECTIONS

1. GENERAL

1.01 This section describes the ERC-19522 recorder coupler used to connect customer-provided recording equipment to a telephone line. The ERC-19522-2 recorder coupler is supplied with the ERC-19522-11 voice control unit factory-installed.

1.02 The ERC-19522-1 or -2 recorder coupler may be used with individual or 2-party service.

1.03 The ERC-19522-1 or -2 recorder coupler (Fig. 1):

- Answers incoming calls automatically.
- Couples prerecorded announcements to telephone line from customer-provided unit.
- Couples incoming messages from telephone line to customer-provided recording equipment.
- Transmits a single short beep tone to telephone line at the time of mode transfer (start and end of recording period).
- Transmits low-level tone to telephone line as required by customer unit.
- Disconnects from telephone line on signal from customer unit.

1.04 The ERC-19522-11 voice control provides automatic disconnect from the telephone line in the absence of speech for a predetermined period of time. (**Note:** Circuit components are selected during manufacture to provide a 12-second time-out delay.)

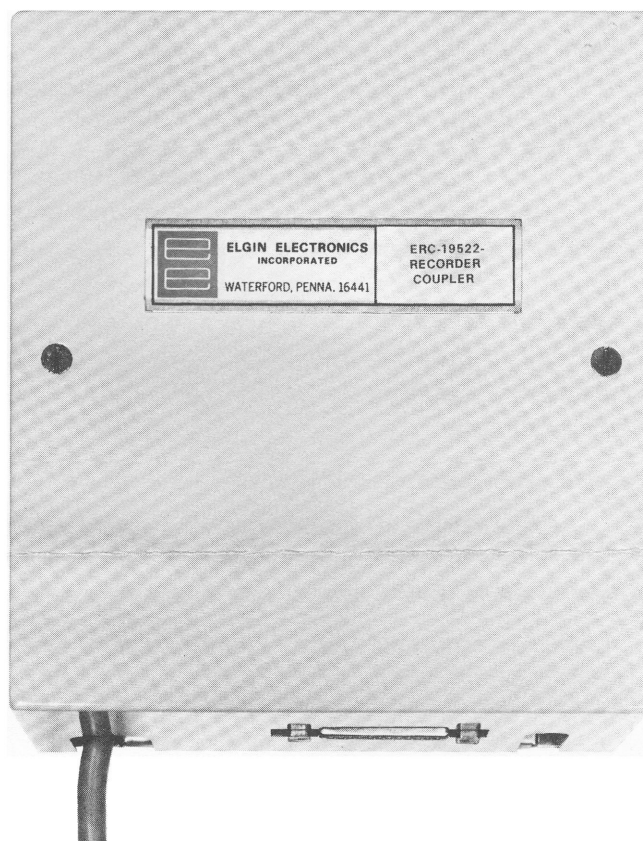


Fig. 1 —ERC-19522 Recorder Coupler

1.05 Use appropriate Elgin drawing with this section for detailed circuit description and operation:

MODEL NUMBER	DRAWING NUMBER
ERC-19522-1	20004-001-401
ERC-19522-2	
ERC-19522-11	20006-001-401



1.06 Customer-provided equipment is connected to the connector located at the bottom of the recorder coupler.

Note: The customer must furnish a suitable connecting cable equipped with a CINCH DB-19604-432 connector with a DB-51226-1 hood.

1.07 Screw-type terminals are provided to connect the telephone line and associated telephone set.

1.08 The telephone set associated with the recorder coupler may be operated in the conventional manner when the recorder coupler is not answering a call. During the automatic cycle, the telephone set may be used to monitor the call in progress; however, the transmitter is disabled preventing its use for a 2-way telephone conversation.

1.09 The automatic cycle can be interrupted by a BREAK-IN signal from the customer unit. This will allow normal transmit and receive operation of the associated telephone set.

1.10 An incoming call applies ringing current to the recorder coupler. The recorder coupler will automatically:

- (1) Trip ringing.
- (2) Couple recorded announcement from customer unit to the telephone line.
- (3) Reverse direction of transmission at end of announcement to enable recording of incoming message.
- (4) Transmit a single, short beep tone to telephone line at start of recording period.
- (5) Enable voice control time-out feature when ERC-19522-11 voice control is provided.
- (6) Transmit a low-level tone to telephone line, as required by customer unit.
- (7) Transmit a single, short beep tone to telephone line at end of recording period.

(8) Disconnect from telephone line at end of automatic cycle; or at the end of the pre-determined timing interval in the absence of speech (with ERC-19522-11 voice control).

1.12 When automatically answered call has been interrupted by a BREAK-IN signal, the automatic cycle can be reinstated by use of the REMOTE START switch located on the customer unit.

1.13 Low-level tone is under control of the customer unit and may be transmitted as many times as required, for any desired interval, during the cycle. This may be used, for example, as talk-down tone associated with a recording control circuit located in the customer unit. This feature should not be used when the -11 voice control is provided as the tone signal will prevent proper operation of the voice control.

2. IDENTIFICATION

2.01 The ERC-19522-1 recorder coupler is constructed on a printed wiring board mounted in a metal apparatus box measuring 6 $\frac{7}{8}$ inches wide, 7 $\frac{1}{2}$ inches high, and 3 $\frac{1}{2}$ inches deep. The complete assembly weighs approximately five pounds and is designed for wall mounting only.

2.02 Screw terminals for termination of the telephone line and telephone set mounting cord, or inside wiring cable, are located on the right side of the printed wiring board (Fig. 2). Entrance is provided at the bottom of the recorder coupler.

2.03 The recorder coupler is equipped with a 6-foot, 3-conductor power cord with a 3-wire, parallel blade grounding cap for connection to a 3-wire, grounded 115-volt ac convenience outlet.

2.04 The power cord and customer equipment connector are located at the bottom of the recorder coupler (Fig. 2).

2.05 The power supply input is 105 to 125 volts, 50-60 cycles ac. The power supply output is 22 volts dc.

NOTE: If only dc power is available a dc-ac inverter must be used.

2.06 The ERC-19522-2 recorder coupler consists of the -1 recorder coupler with the -11 voice control factory installed (Fig. 3).

2.07 The ERC-19522-11 voice control is constructed on a printed wiring board and is

equipped with spade-tipped leads for connecting to screw terminals on the recorder coupler.

2.08 The -11 voice control is designed for mounting integrally in the -2 recorder coupler. It may be ordered separately for field installation in -1 recorder couplers. For connections refer to drawing numbers 20006-001-401 and 20004-001-401.

2.09 To disconnect the -11 voice control unit, remove the white-yellow power lead from terminal number 4 on the -1 recorder coupler.

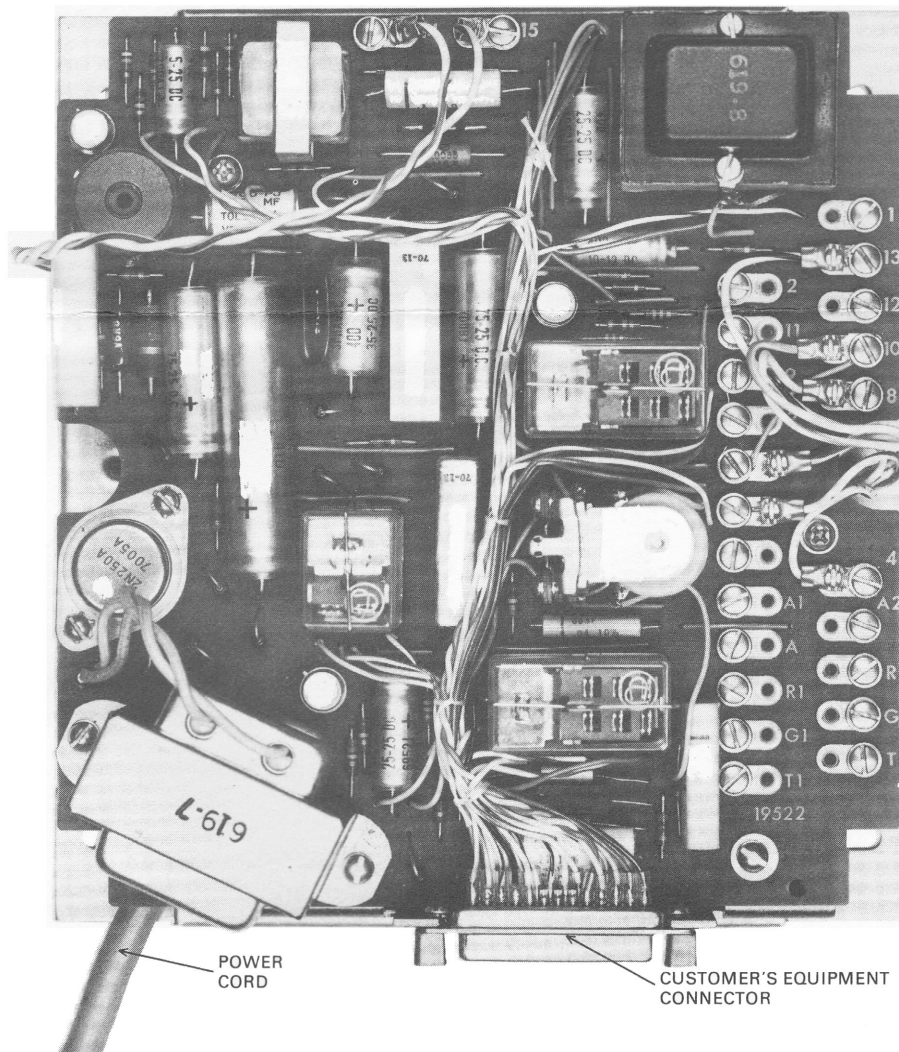


Fig. 2 — ERC-19522-1 Recorder Coupler, Cover Removed

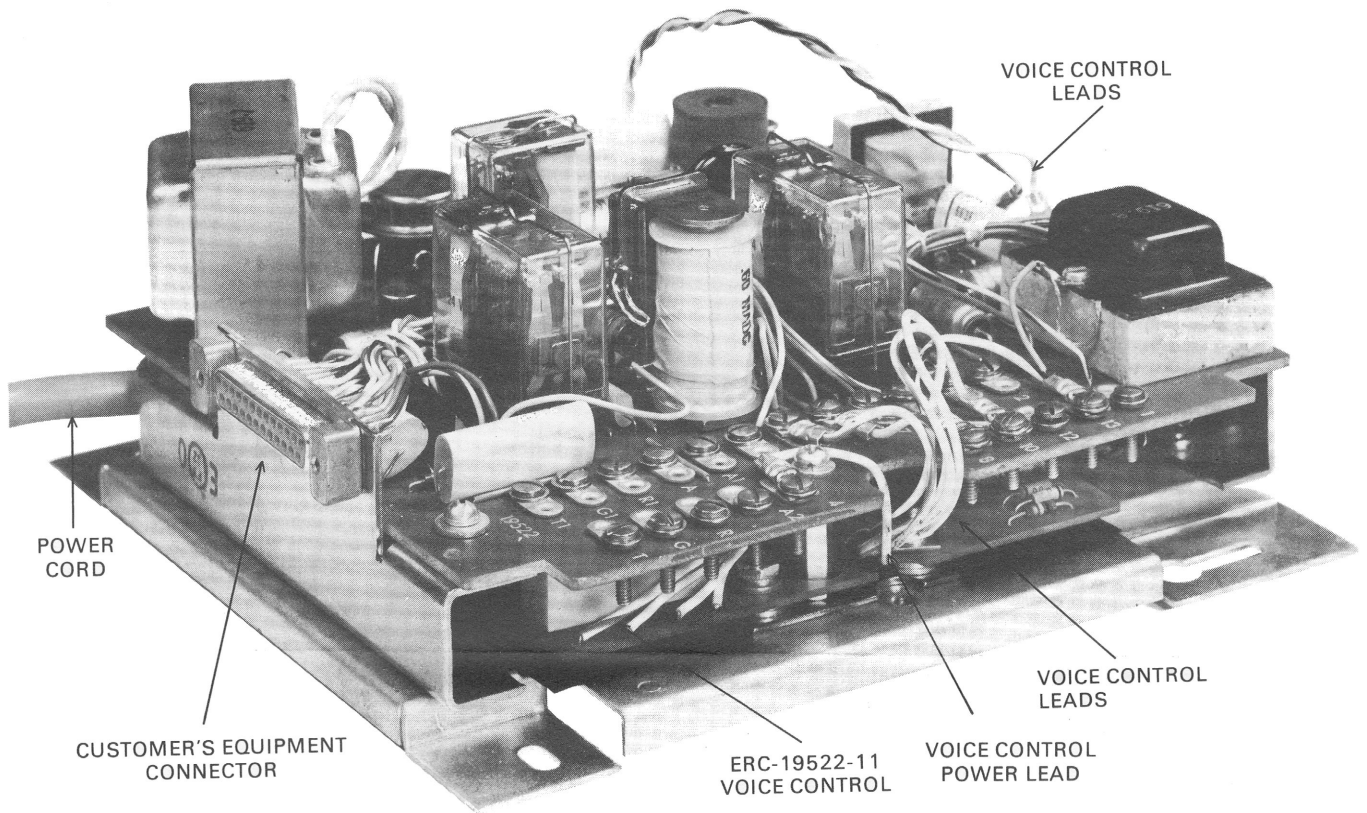
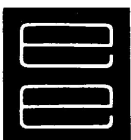
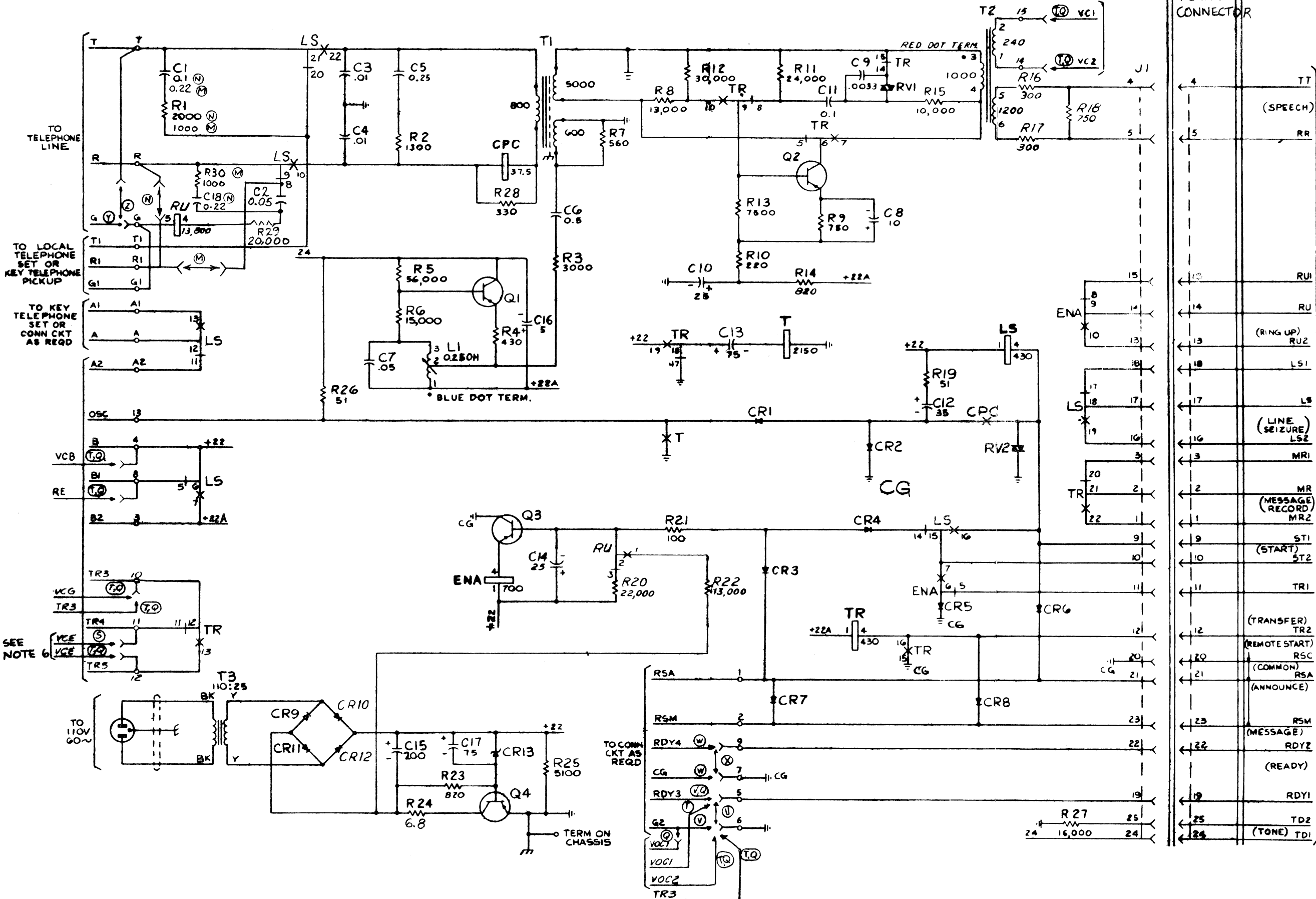


Fig. 3 — ERC-19522-2 Recorder Coupler, Cover Removed



APP.	REV.
3948	0
ADD: NOTE 7 EC-4213	
D.P. 10-6-70	1
ADD: COMMON GROUND OFF CR2 EC 4833	
D.P. 5-4-71	2
UPGRADED DWG ADDED R30:4 C18 (2) JUMPERS EC6147	
RE 5-16-72	3
E.O. 6498	
LMF 8-8-72	4



- INSTALLATION NOTES:
1. FOR BRIDGED RINGING USE WIRING OPTION $\textcircled{2}$. FOR 2-PARTY SERVICE RINGING USE OPTION \textcircled{V} .
 2. TO CONVERT ERC 19522-1 TO ERC 19522-2 CONNECT VOICE CONTROL CARD ERC 19522-11 USING WIRING \textcircled{T} .
 3. ON ERC 19522-1 COUPLER AND ANNOUNCEMENT RECORDER PROVIDED BY CUSTOMER USE WIRING \textcircled{U} \textcircled{X} . ON ERC 19522-2 COUPLER USE WIRING \textcircled{T} \textcircled{X} THE ERC 19522-1 IS FURNISHED WITH THE U, X WIRING OPTION.
 4. ON ERC 19522-1 COUPLER AND USING W.E. CO. K5-46765 L1 USE WIRING OPTION \textcircled{W} \textcircled{V} . ON ERC 19522-2 COUPLER USE WIRING \textcircled{Q} \textcircled{W} .
 5. ON THE VOICE CLOSURE CONTROL WIRING — \textcircled{S} PERMITS REMOVAL OF GROUND CLOSURE WIRING AND \textcircled{R} PERMITS CLOSURE TO GROUND.
 6. WITH THE S OPTION CONNECT VCE TO TERMINAL 11.
 7. CUSTOMER TO SUPPLY CINCH PLUG # 231-25-61-123 AND # 239-14-22-125 HOOD FOR EQUIPMENT HOOKUP
 8. STANDARD PRODUCTION UNITS ARE SHIPPED WITH OPTION M.
- C20004-001-401

TOLERANCES UNLESS NOTED		SCHEMATIC FOR ELGIN RECORDER COUPLERS ERC 19522-1 AND ERC 19522-2	
FRACTION	$\frac{+}{-}$		
DECIMAL	$\frac{+}{-}$		
ANGLE	$\frac{+}{-}$	DESIGN DP 7-28-70	DWN
SUPERSEDES:		ELGIN ELECTRONICS INCORPORATED WATERFORD, PA.	CK'D C 20004-001-401