

ERC-19522-21 -22 RECORDER COUPLERS, ERC-19522 -11 VOICE CONTROL UNIT IDENTIFICATION, INSTALLATION, AND CONNECTIONS

F.C.C. REGISTERED

1. GENERAL

1.01 This section describes the ERC-19522 recorder coupler used to connect non-registered customer-provided recording equipment to a telephone line. The ERC-19522-22 recorder coupler is supplied with the ERC-19522-11 voice control unit factory-installed.

1.02 The ERC-19522-21 or -22 recorder coupler may be used with individual or 2-party service.

1.03 The ERC-19522-21 or -22 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 receipt of calling party disconnect signal, voice operated relay disconnect signal, or opening of Ready Leads by customer provided equipment.

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
U.L. LISTED
AND
C.S.A. CERTIFIED

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

MODEL NUMBER	DRAWING NUMBER
ERC-19522-21	} 20004-003-401
ERC-19522-22	
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 or ITT-Cannon DB-19604-432 connector with a DB-51226-1 hood.

1.07 An 8 position modular plug and cord assembly are supplied 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).

(9) Three optional time delays in disconnect by the line seizure circuit are implemented as follows:

(Fig. 3)

- a. Option "C", "S" & "L" unstrapped provide less than 8 msec. delay in disconnect.
- b. Option "C", "S" & "L" strapped provide 80-125 msec. delay in disconnect.
- c. Option "C" & "L" strapped provide 350-570 msec. delay in disconnect.

*The standard Elgin ERC-19522 coupler operates unidirectional as indicated. The U.S.O.C. for this operation is RDL. A factory modified coupler for bidirectional operation is available. The U.S.O.C. for this unit is RDM, Model No. ERC-19522-21-2W or ERC-19522-22-2W.

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-19522-21 recorder coupler is constructed on a printed wiring board mounted in a metal apparatus box measuring 6 $\frac{1}{8}$ 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 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.

2.03 The power cord and customer equipment connector are located at the bottom of the recorder coupler (Fig. 3).

The power supply input is 105 to 125 volts, 50-60 cycles ac. The power supply output is 22 volts dc. The coupler is U.L. Listed and C.S.A. Certified.

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

2.04 The ERC-19522-22 recorder coupler consists of the -21 recorder coupler with the -11 voice control factory installed (Fig. 4).

2.05 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.

2.06 The -11 voice control is designed for mounting integrally in the -22 recorder coupler. It may be ordered separately for field installation in -21 recorder couplers. For connections refer to drawing numbers 20006-001-401 and 20004-003-401.

2.07 To disconnect the -11 voice control unit, remove the white-yellow power lead from terminal number 4 on the -21 recorder coupler.

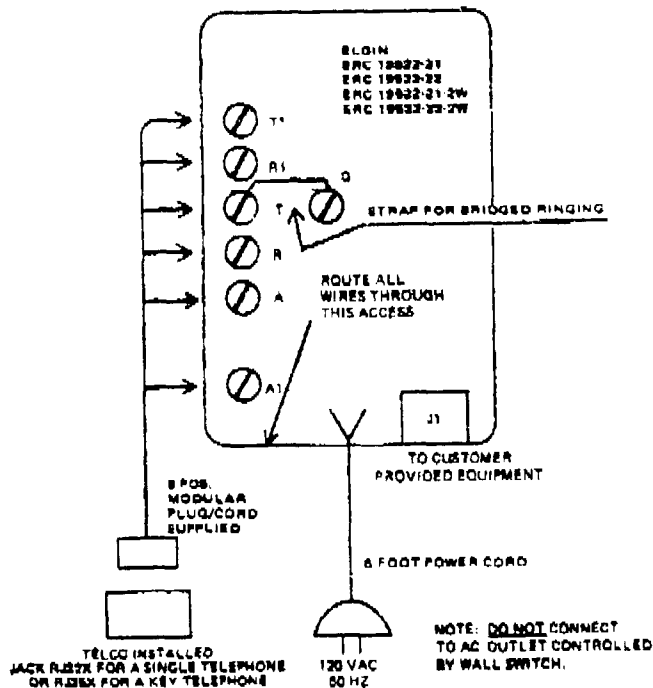


Fig. 2 — Typical Installation

3. BEFORE INSTALLATION (FIG. 2)

The customer must notify the local operating telephone company of:

- 3.01 The particular line to which the connection is to be made.
- 3.02 The FCC Registration number of the model used:

MODEL

F.C.C. REG. NO.

ERC-19522-21 (8R)	AE498D-62354-PC-N
ERC-19522-22 (8R)	AE498D-62351-PC-N
ERC-19522-21-2W (8R)	AE498D-62645-PC-N
ERC-19522-22-2W (8R)	AE498D-62622-PC-N

The FCC registration number of the associated telephone (if used).

3.03 The single largest ringer equivalence number. (The ringer equivalence number of the above units is 0.5A.) If used with associated telephone and that ringer equivalence number is larger, use that number.

3.04 The U.S.O.C. Jack required is RJ32X for single line telephone or RJ35X for key system telephone.

4. MAINTENANCE

- 4.01 This recorder coupler cannot be used with party or coin lines.
- 4.02 No repairs or strapping changes shall be made by the customer.
- 4.03 Repairs are to be made by C-E Elgin Electronics only.
- 4.04 When trouble is experienced, the customer must disconnect the recorder coupler from the Jack to determine cause of trouble and reconnect only when problem is correct.
- 4.05 Should terminal equipment cause harm to the telephone network, the telephone company shall, where practicable, notify the customer that temporary discontinuance of service may be required; however, where prior notice is not practicable, the telephone company may temporarily discontinue service forthwith, if such action is reasonable in the circumstances. In case of such temporary discontinuance, the telephone company shall:

- promptly notify the customer of such temporary discontinuance,
- afford the customer the opportunity to correct the situation which gave rise to temporary discontinuance, and
- inform the customer of his right to bring complaint to the F.C.C. pursuant to the procedures set out in Subpart E of the Rules, Part 68.

4.06 If the telephone company makes change in facilities equipment, operation or procedures which render customer equipment, incompatible with the telephone company facilities, the customer must be given written notice to allow the customer an opportunity to maintain uninterrupted service.

P 20004-003

To modify the ERC19522 connector, for those applications requiring auto-answer, place the jumpers in the cable and plug assembly coming from the terminal equipment, as shown in Figure 3.

ERC19522-21 Must have "CALLING PARTY CONTROL" to auto-disconnect.

ERC19522-22 Must have 12+ sec. "NO SPEECH" to auto-disconnect.

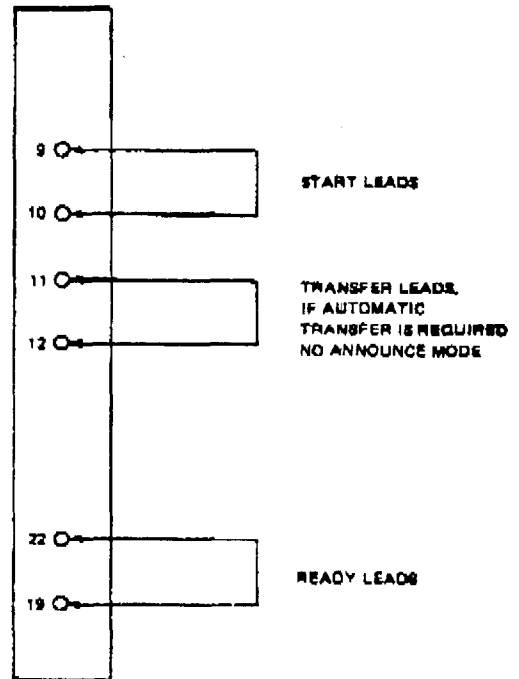


Fig. 3 — Auto-Answer Application

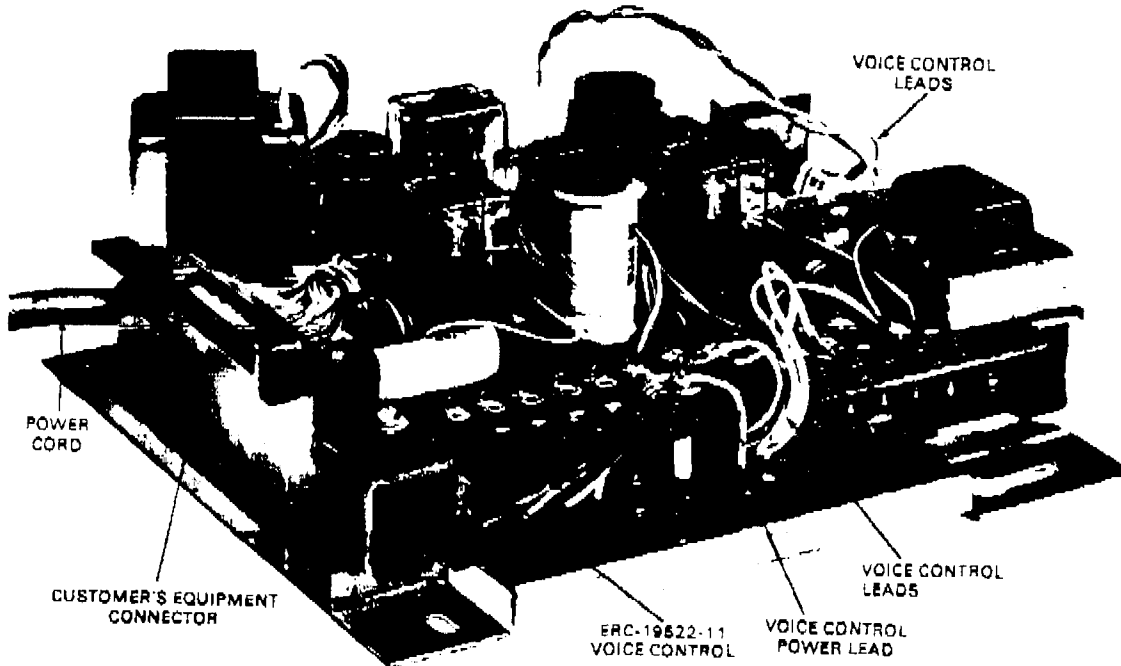


Fig. 4 — ERC-19522-21 & -22 Recorder Coupler, Cover Removed

ORDERING GUIDE

MODEL	U.S.O.C.	DESCRIPTION
ERC-19522-21	RDL	1-Way Coupler, no Voice Control
ERC-19522-22	RDL	1-Way Coupler, with Voice Control
ERC-19522-21-2W	RDM	2-Way Coupler, no Voice Control
ERC-19522-22-2W	RDM	2-Way Coupler, with Voice Control
ETC-19522	—	Elgin Test Cable

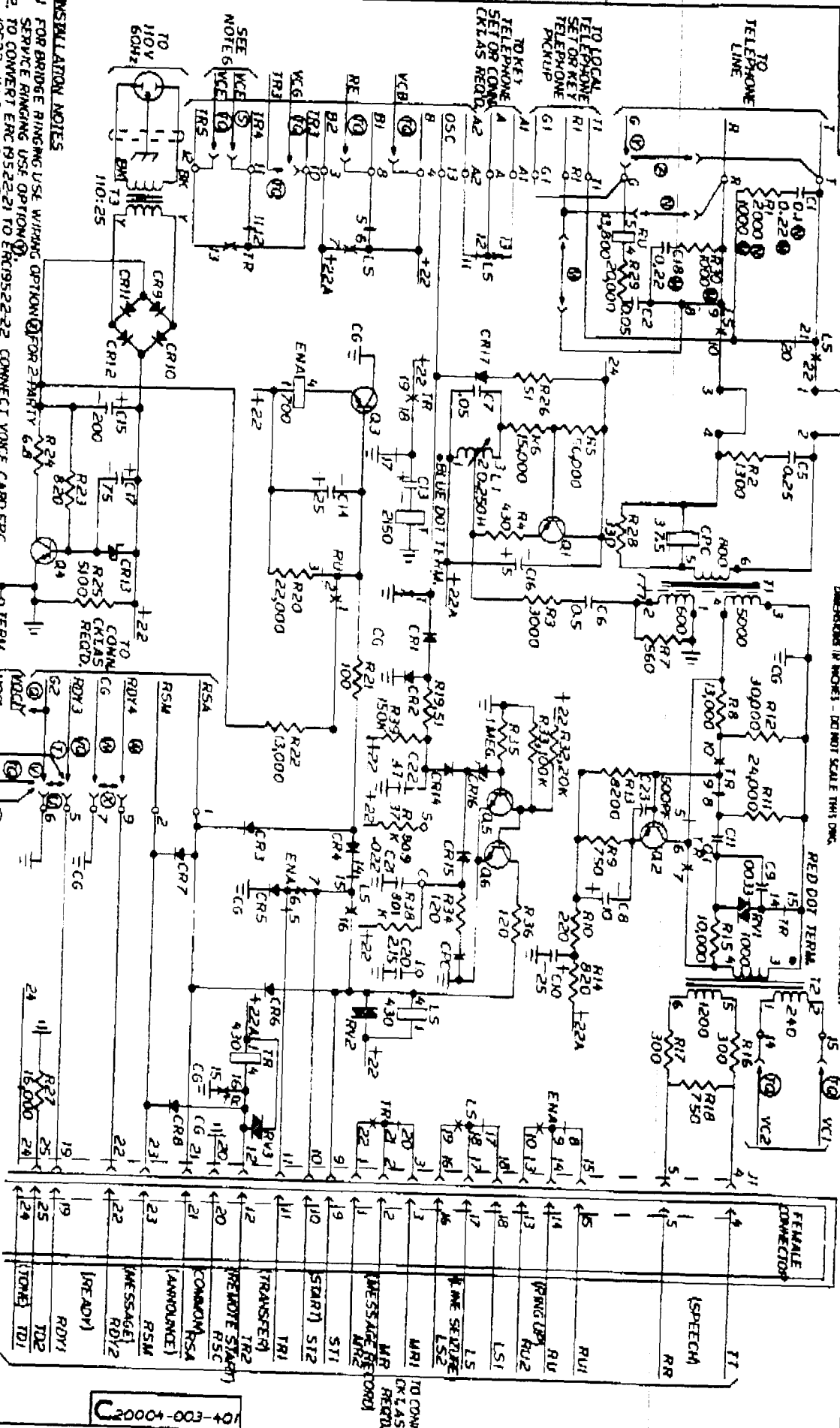


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104-100-40002-2

ACCEPTANCE OF MATERIAL SUBJECT TO APPROVAL OF PRODUCTION SAMPLES BY ENGINEERING DEPARTMENT
DIMENSIONS IN PARENTS - DO NOT SCALE THIS DRAWING



- INSTALLATION NOTES**
- FOR BRIDGE RINGING USE WIRING OPTION 1 FOR 2 MINUTE 6.8
 - TO CONVERT ERIC 1952-2-21 TO ERIC 1952-2-22 CONNECT VOICE CARD ERIC 1952-2-22-21 COUPLER 1
 - ON ERIC 1952-2-21 COUPLER 1 ANNOUNCEMENT RECORDER PROVIDED BY CUSTOMER USE WIRING 1 ON ERIC 1952-2-22 USE WIRING 6 THE ERIC 1952-2-21 ON ERIC 1952-2-21 COUPLER 1 USING W.E. 10. KS16765 L1 USE WIRING OPTION 1 ON ERIC 1952-2-22 COUPLER 1
 - ON THE VOICE CLOSURE CONTROL WIRING 1 PERMITS REMOVAL OF GRD. CLOSURE WIRING 1 PERMITS CLOSURE TO GRD.
 - WITH THE 5 OPTION CONNECT VCE TO TERMINAL 11
 - CUSTOMER TO SUPPLY CATCH PLUG 21-23-61-K3 & 239-14-22-125 HOOD FOR EQUIPMENT HOODUP.

- STANDARD PRODUCTION UNIT ARE SHIPPED WITH OPTION M.
- OPTION 5 CL NO STRAPS - LINE RELEASE IN 5.8 MSEC.
- STRAPPED TOGETHER - LINE RELEASE IN 80 - 125 MSEC.
- STRAPPED TOGETHER - LINE RELEASE IN 350 - 570 MSEC.

TOLBOMBER	LINE NUMBER	SCHEMATIC FOR ELGIN
REVISION	1	RECORDER COUPLERS ERIC
DATE	1952-2-21	ERIC 1952-2-22
DESIGNED BY		
CHECKED BY		
APPROVED BY		
SUPERVISOR		

ELGIN ELECTRONICS
INCORPORATED
WATERSBORO, PA.

C20004-003-101

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