

37 TELETYPEWRITER RECEIVE-ONLY (RO) STATION ARRANGEMENT  
NONSWITCHED POINT-TO-POINT PRIVATE LINE SERVICE  
INSTALLATION

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1. GENERAL

1.01 This section describes the procedures to be followed for the installation of a Model 37 Receive-Only (RO) Teletypewriter (TTY) station for nonswitched point-to-point private line service (Figure 1). The station operates at 150 words per minute (wpm) and uses Data Set 108A, 108C, 108D, 108E, 109A or 109E with Data Auxiliary Set 820D or the 1A Data Station, Single Channel Arrangement (SCA).

1.02 The 37 type RO TTY station is a self-contained station which is intended to be completely assembled and tested by the service center prior to shipment. After testing, the typing unit is removed and shipped in a separate carton.

1.03 The customer must furnish a standard 3-wire, grounding-type, 105 to 129 volt, 59.55 to 60.45 Hz ac power receptacle (to accept a plug equipped with two parallel blades and a round-shaped grounding pin). The circuit providing power to the terminal should be fused at 15 amperes.

**Note:** The receptacle should not be under control of a switch.

1.04 Reference directions (left, right, front or rear) apply to the terminal in its normal position as viewed by the operator facing the control panel.

1.05 Verify with the Service Test Center (STC) that the overall facilities meet specified transmission requirements.

2. INSTALLATION

2.01 Verify that the location selected by the customer for the 37 TTY RO data station is adequate for maintenance. The location measurements should exceed 33 inches wide and 37 inches deep, and vertical obstructions should be more than 5 feet above the floor to allow sufficient room for 37 TTY RO data station disassembly, if required.

2.02 Verify that the customer provided ac power receptacle is within 8 feet of the selected location and is adequately fused.

**CAUTION: DO NOT CONNECT POWER TO THE 37 TTY RO DATA STATION UNTIL INSTRUCTED TO DO SO.**



Figure 1 - Model 37 RO TTY Station

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2.03 For information on installing the printer on its base, refer to RO Set Installation Section 574-300-200.

compartment of the table. Instructions for removal of the electrical service unit are given in Section 574-300-200, RO set installation.

ELECTRICAL SERVICE UNIT

2.04 To verify that the proper options (Table B) are installed on the circuit cards (Table A) of the electrical service unit, slide the electrical service unit forward from the left

2.05 Verify that the proper circuit cards (Table A) are installed into the electrical service unit (Figure 2) and that the proper options are enabled. Required options for the installation should be specified on the service order and/or work sheet and marked on the wiring plan included with the station. The available features and options are shown in Table B.

TABLE A

CARD POSITIONS IN ELECTRICAL SERVICE UNIT (ESU)

POSITION	CARD
XZ102	TP322059 Distributor
XZ103	TP322304 Send Control
XZ105	TP322067 Mode Control
XZ107	TP322062 Receive Control
XZ109	TP322326 Channel Control
XZ110	TP322327 Character Generator
XZ304	TP322309 Alarms and Controls
XZ305	TP303149 Receiving Device
*XZ405	TP322070 Two-Color Ribbon Control

\*Optional

TABLE B

37 TTY RO SET — FEATURES AND OPTIONS

FEATURE	CARD OR MECHANISM	OPTIONS	INSTALLATION PROCEDURE
Transmission following control characters	Connector XZ102, 105 (Figure 2)	One character duration of idle marking time automatically inserted after each control character.	Remove strap TP327842 between pins 2 and 7 on XZ102. Remove strap TP327842 between pin B26 on XZ105 and pin 2 on XZ305.
		No transmission delay following control characters.	Install strap TP327842 between pins 2 and 7 on XZ102. Remove strap TP327842 between pin B26 on XZ105 and pin 2 on XZ305.

TABLE B

## 37 TTY RO SET — FEATURES AND OPTIONS (Continued)

FEATURE	CARD OR MECHANISM	OPTIONS	INSTALLATION PROCEDURE
Character length	Mode Control (Figure 2, XZ105)	150 wpm, 10-unit code	Do not remove strap "A". See Note 1.
Terminal control of home copy	Receive Control (Figure 3, XZ107)	Line control operation.	1. Remove straps "A" and "B". See Note 1. 2. Check mechanical portions of stunt box for appropriate codes. See Note 2.
Line receiver alarm	Receive Control (Figure 2, XZ107)	Generated any time typing unit is in local mode.	Remove strap "C". See Note 1.
Master/slave control	Channel Control (Figure 2, XZ109)	EOT character switches terminal to contention.	Do not remove straps "B1, B2". Remove straps "A1, A2".
Out-of-service motor control	Channel Control (Figure 2, XZ109)	Out-of-Service defers motor turn off until end of call.	Remove strap "C". See Note 1.
		Out-of-Service turns motors off immediately.	Do not remove strap "C". See Note 1.
Idle line time-out	Character Generator (Figure 2, XZ110)	2 min idle line period	Do not remove strap "A". Remove straps "B", "C", and "D".
		5 min idle line period	Do not remove strap "B". Remove straps "A", "C", and "D".
		10 min idle line period	Do not remove strap "C". Remove straps "A", "B", and "D".
		20 min idle line period	Do not remove strap "D". Remove straps "A", "B", and "C".

Note 1: Card shipped from factory with all straps installed.

Note 2: References to typing unit and stunt box indicate option is part electrical service unit and part associated components.

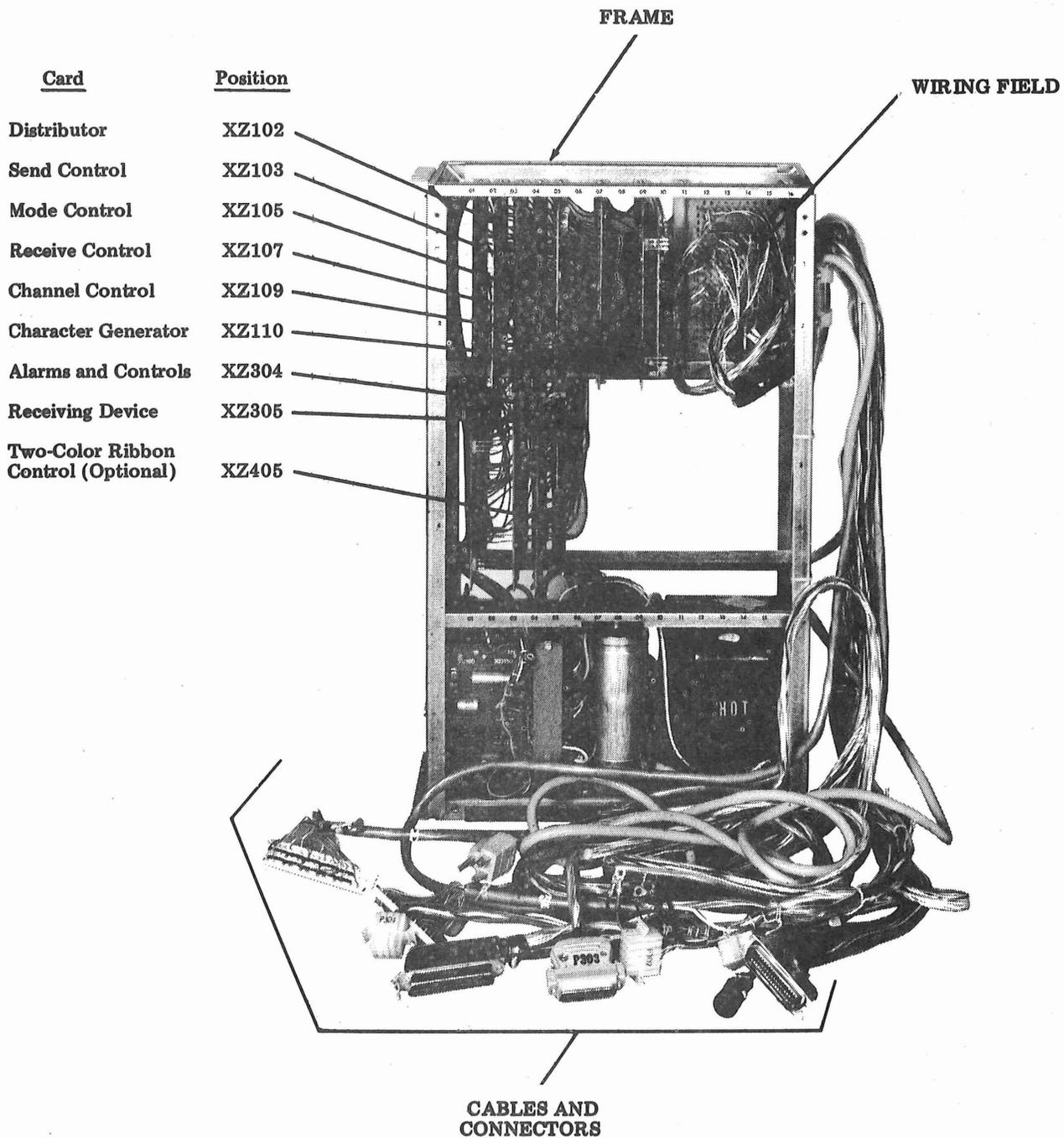


Figure 2 - 37 TTY RO Electrical Service Unit

**DATA SET**

2.06 The 37 RO TTY station includes either an 820D Data Auxiliary Set (Figure 3) equipped with the Data Set 108A, 108C, 108D, 108E, 109A or 109E, or the 1A data station, Single Channel Arrangements (SCA). The data auxiliary set or data station functions as an interface between the teletypewriter terminal and the signal line.

2.07 To install the 820D Data Auxiliary Set into the right pedestal of the table, perform the following procedure (see Figure 4):

(a) Install the 180A backboard on the 98A bracket using TP2669 lockwashers (4), TP3438 flat washers (4), TP112626 nuts (4), and TP153442 screws (4).

(b) Mount the 820D-L1 Data Auxiliary Set on the 180A backboard using the mounting clips provided on the 180A backboard. The test key on the Data Auxiliary Set should face toward the front of the table.

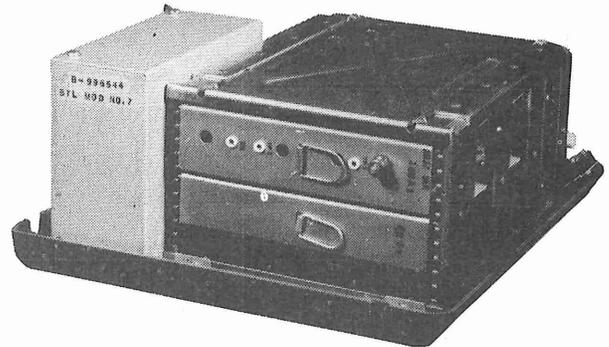


Figure 3 - Data Auxiliary Set 820D

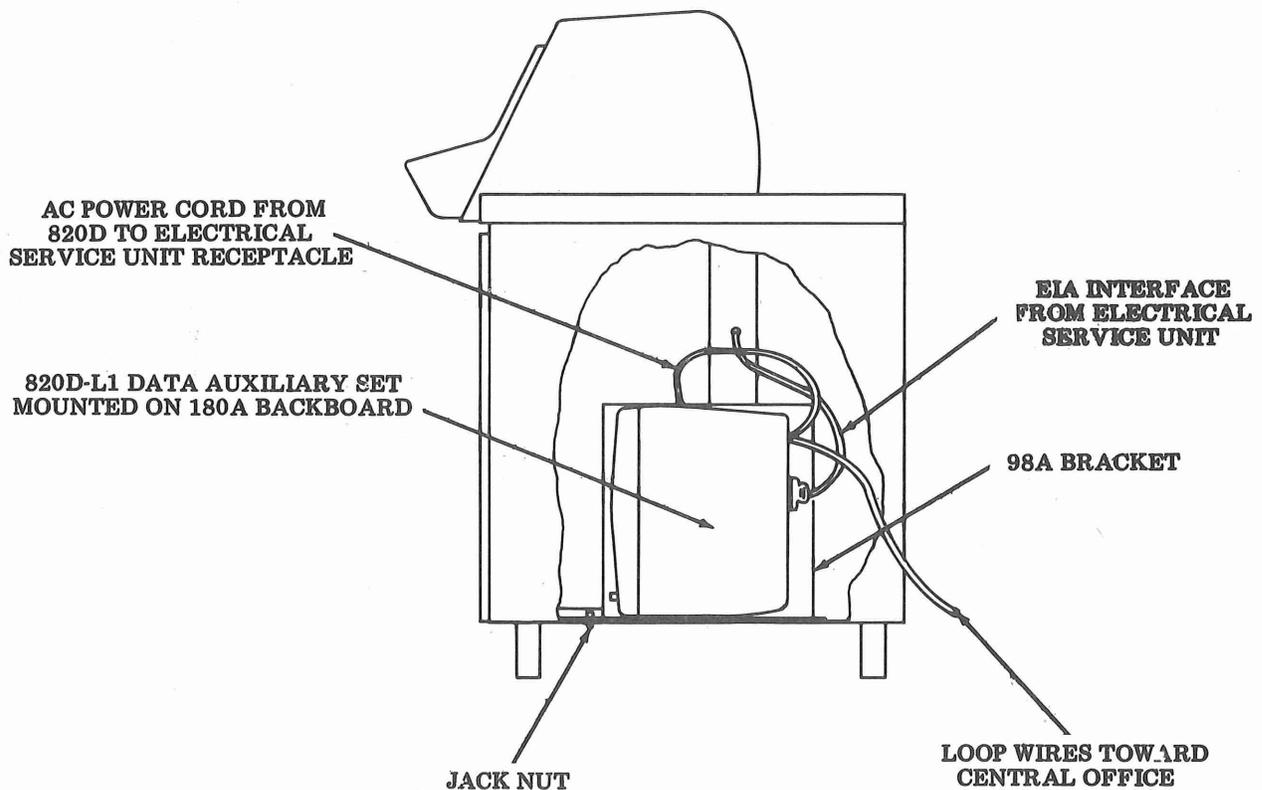


Figure 4 - 820D Mounted in Model 37 Teletypewriter

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(c) A jack nut is shipped loose with the 98A bracket. Install the jack nut in the bottom of the pedestal using Molly jack nut installer tool 1956 or a Molly jack nut friction wrench and screwdriver.

(d) Place the data auxiliary set in the bottom of the right pedestal and fasten the captive screw on the 98A bracket to the jack nut on the floor.

(e) Direct the cables as shown in Figure 4.

2.08 To install the 1A Data Station into the right pedestal of the table, perform the following procedure (see Figure 5):

(a) Install the data mounting on the 104A bracket using the hardware provided with the bracket.

(b) If not already completed, attach the cables to the 1A Data Station and finish assembly according to the assembly plan.

(c) Place the 104A bracket with data mounting in the bottom of the right pedestal of the table. Place the locating stud on the front of the 104A bracket into the hole in the pedestal floor.

(d) Install the TP327304GF door on the right pedestal of the table, if not already so equipped.

(e) Install the mounting plate assembly with pushbutton set onto the studs on the back of the door. Secure with 2 nuts and washers provided with the door.

(f) Install the faceplate onto the front of the door by inserting the tab on the faceplate into the slot on the right side of the door. Insert the latch spring from the back of the door to hold down the left side of the faceplate and fasten with the two screws provided.

(g) Direct the cables as shown in Figure 5.

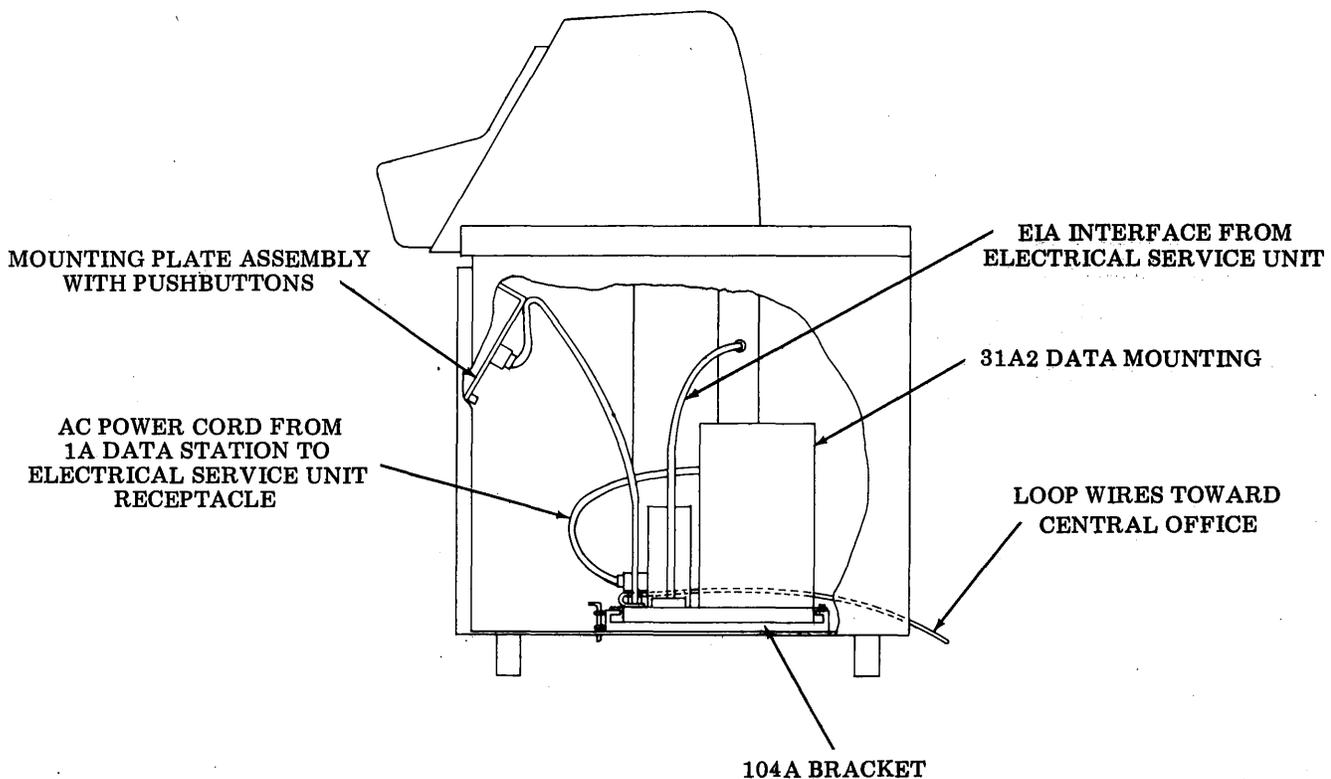


Figure 5 - 1A Data Station Mounted in Model 37 Teletypewriter

3. CHECKOUT

Note: Check the ordering information to determine the features and options before conducting the checkout.

3.01 Refer to the wiring diagram package for information concerning wiring and circuit cards.

3.02 Connect the tip and ring cord from the station data set to the customer's line on the connecting block.

3.03 Connect the station power cord plug from the electrical service unit to the ac receptacle. Check all the cable connections, turn the electrical service unit power switch ON, and proceed with the following tests.

3.04 Depress the OFF LINE pushbutton. Its associated lamp should light and the typing unit motor should start. Depressing the CARRIAGE RETURN pushbutton should return the typing unit carriage to the left side of the platen, if it is not already there. Depressing the PAPER ADVANCE pushbutton advances paper out of the typing unit for as long as the button is held depressed. Depressing the OFF LINE pushbutton a second time extinguishes the lamp, turns off the motor, and places the terminal in the on-line mode.

3.05 The 37 RO TTY station can be tested in the on-line mode by performing designated tests. For all on-line testing, use your local test board. References for data set test procedures are listed at the end of this BSP.

3.06 After checkout, make sure that all connections to facilitate the on-line circuit tests have been removed. The power switch on the electrical service unit must be in the on position. When the interface units are properly installed, and the power cord is connected to a 117 volt source, the 37 RO TTY station is ready for operation.

4. REFERENCES

<u>TITLE</u>	<u>NUMBER</u>
<u>RO SET</u>	
Installation	574-300-200
Removal and Replacement of Components	574-300-702
<u>DATA SETS</u>	
108A- and 108C-Type Installation	591-023-201
108A- and 108C-Type Test Procedures	591-023-501
109A-Type Installation	591-024-201
109A-Type Test Procedures	591-024-501
108D- and 108E-Type Installation	591-028-201
108D- and 108E-Type Test Procedures	591-028-501
109E-Type Installation	591-036-202
109E-Type Test Procedures	591-036-502
1A Data Station, Single Channel Arrangements, Installation	591-813-201
1A Data Station, Single Channel Arrangements, Testing	591-813-501