# TELEPHONE SETS

## GENERAL REQUIREMENTS

This index lists the information that forms a part of, or supplements this specification, and indicates the authorized issues thereof.

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Att. Dwgs.		
		And the second
L-760401, SH 1	2	
L-760401, SH 2		

c-Information in accordance with that currently authorized.

WESTERN ELECTRIC COMPANY, FILING INFORMATION

RS-586, BS-2, TAB AI

IP-3, TAB D

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Bell Telephone Laboratories, Incorporated Dept 3315-AT&T, CPL-KJP/RMS-5527 Indianapolis

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#### 1. GENERAL

1.01 This specification covers general requirements applicable to the recovery and repair of telephone sets. Each requirement shall be applied to all products of such design as to be affected by that requirement unless specified otherwise in the individual BSRS.

1.02 Specifications covering individual products will refer to this specification and will include such additional requirements as may apply to the individual unit.

1.02A When a SUPL SPEC to an individual BSRS has a specific requirement designated as an "R" requirement, that requirement shall be an "R" requirement for the individual BSRS.

1.02B The use of all materials containing silicone is prohibited in the repair of telephone sets and telephone set components unless specifically permitted in an applicable BSRS.

1.02C The term "registered" telephone set pertains to those telephone sets which are registered in accordance with Section 68 of the FCC Rules and Regulations.

1.02D Requirements pertaining to "registered" telephone sets take precedence over all other requirements with respect to the recovery and repair of those sets which are "registered".

1.02E Components shipped to the telephone company and replacement of parts and components in "registered" telephone sets should be in accordance with the manufacturing information specified for the individual product; however, unless specifically listed below under <u>Unauthorized Apparatus</u> or prohibited in the individual BSRS, new or used parts and components may be used providing they presently are, or previously were, standard for the particular product.

### Unauthorized Apparatus

A. Ringers

(a) C, D, H and J Type having stick wound coils.(b) Omitted on Issue 15 of this page.

B. Buzzers

KS-20419 Type not having the new logo or black ink stripe marking on bracket.

C. Dials

(a) Deleted on Issue 15 of this page.

(b) Rotary All 9-Type Dials equipped with pawl retainers or those without a formed tab on the cam follower.

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R

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1. GENERAL (Cont'd.)

Unauthorized Apparatus (Cont'd.)

D through J omitted on this page with Issue 13

1.02F A "Grandfathered" set is defined as one manufactured prior to the implementation of registration and not having a registration label attached to its base.

> (a) When a set is returned for repair and contains no FCC Registration Label and no legible date of manufacture it shall be considered "grandfathered".

Requirements Needing Special Consideration by the Telephone Co.

1.03 This specification includes certain requirements which need special consideration and, in some cases, action on the part of the telephone company. The paragraph numbers and a brief description of these requirements are shown in the following table.

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Requirements Needing Special Consideration by the Telephone Co. (Cont'd)

Table:	
Paragraph NO.	Description
1.04	Selection of appearance standards for interior of sets.
2.01 (d)	Color conversion authorization.
2.03A	Satin-Silver (-87) Mounting Cords
2.05A	Use of friction pads on sets in color
4.05	Sets equipped with converted 12-Button TOUCH-TONE Dials
4.06	Converting sets equipped with convertible TOUCH-TONE® Dials

### Appearance Standards

1.04 The telephone company, pending availability of system standards, shall establish appearance standards covering minimum appearance of interior surfaces of telephone sets that may be exposed to view in service as a result of removal of the housing.

1.05 Interior surfaces of telephone sets shall meet or be superior to the minimum established appearance standards.

#### 2. MECHANICAL

### Cleaning - Finish

2.01 Exterior thermoplastic surfaces of housing and handsets may be made to meet the appearance standards by any of the following:

- (a) Buffing
- (b) Cleaning with an approved soap or detergent solution. KS-14427 Cleaning Emulsion <u>shall</u> not be used on thermoplastic parts since it is known that its use results in cracking in highly stressed areas.
- (c) Refinishing with any of the following paint coatings; all as specified in KS-21420 of the same color for sets in color:
  - Midland Division Dexter Corps' WECOthane-2 polyurethane enamel.
  - (2) Sherwin Williams' Polane "WE" Quality Catalyzed Polyurethane Enamel.

### Feet and Base

- 2.05 Feet shall be made to meet the requirements regarding appearance and foreign material by the following means.
  - (a) Brushing with a stiff bristle or wire brush.
  - (b) Use of Isopropyl Alcohol on leather covered feet.
  - (c) Brown dye on leather covered feet.
  - (d) Addition of KS-8035 Triangular Friction Pads on other than neoprene feet. If a foot is equipped with a friction pad, all feet shall be equipped with friction pads.
  - (e) Wiping neoprene feet with a cloth slightly moistened with KS-14356 Dry Cleaning Fluid.
  - (f) Replacement.
- 2.05A Unless otherwise specified by the telephone company, friction pads shall not be used on telephone sets color.
- 2.06 If a foot is replaced, the following shall apply:
  - (a) Either Neoprene rubber feet or thermoplastic rubber feet shall be used and both feet on that end of the set shall be either P-10E943 or P-44E081 Neoprene, or 840503932 Thermoplastic.
  - (b) Neoprene rubber feet shall be secured to the base plate either by a P-10E944 Rivet, and expansion rivet, or with a P-297756 Screw and P-11E212 Nut. Screws shall be tightened sufficiently so they will not turn in a tightening direction when a torque of 10-inch pounds is applied.
  - (c) Thermoplastic rubber feet shall be assembled to the base plate with a 840503940 Rivet.

2.07 Exterior surfaces of the base and/or base pad shall be hand cleaned using KS-14427 Cleaning Emulsion. Care shall be taken to prevent the cleaning emulsion from entering the interior of the base assembly.

2.08 Exterior surfaces of base plates exposed to view in service shall have bare spots touched up or refinished with an approved paint that approximates the color of the base.

NOTE: When the base plates are touched up or refinished, provision shall be made to prevent the paint from entering the interior of the set.

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- 2.08 Exterior surfaces of base plates exposed to view in service shall have bare spots touched up with a matching lead-free fast air dry enamel or acrylic lacquer, obtained locally.
  - (a) <u>Black Bases</u> Use matching black lacquer. This type base plate is no longer manufactured.
  - (b) <u>289A Zinc Plate</u>, <u>Passivated</u> This base has a yellowish tint due to the passivation process. Use a quick dry enamel or tinted acrylic lacquer that approximates this color.
  - (c) <u>584A Zinc Plate</u> This base is aluminum in color and has a clear lacquer dip passivation process on its surface. Use a silver or aluminum lacquer approximates the finish.
- NOTE: When the base plates are touched up or refinished, provision shall be made to prevent the paint form entering the interior of the set. Special care shall be taken to prevent contamination of electrical contacts, such as line switch, etc.

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### Plunger or Switchhook Operation

R 2.12 With the telephone set in its normal position of use and the handset released from the position of just touching the plunger(s) or switchhook, the plunger(s) or switchhook shall move downward until the handset rests on one or both of the supporting surfaces on the housing, or the switchhook shall move to the extreme downward position. Removing the handset, the plunger(s) or switchhook shall move upward to the off-hook position. When the tests are performed as outlined above, the plunger(s) or switchhook shall move freely without binding or squeaking.

- 2.13 If pivot bar bearing surfaces of the line switch assembly require lubrication, KS-19589 L2 Lubricant shall be used.
- 2.14 The line switch plungers shall meet the following requirements.
  - (a) Except as specified in (b) and (c), both plungers shall either be clear or match the color of the set.
  - (b) Exclusion plungers on sets in color shall be white or natural (cloudy in color).
  - (c) Exclusion plungers on black sets shall be black, white or natural (cloudy in color).

### Exclusion Switch

2.15 The exclusion plunger or button shall remain in the operated position when actuated to the full extent of its stroke, and shall return to the fully unoperated position when a handset is dropped into place on the housing or switchhook, as applicable, from a distance of 1/4 inch from the top of the plunger or switchhook.

#### Lamps

2.16 Products of particular codes which have lamps shall be reissued with lamps.

#### Face Plates

2.17 Face plates shall be color-coordinated and shall have an anti-glare surface.

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Face Plates (Cont'd.)

- 2.18 Face plates shall be made to meet the appearance standards by any of the following means.
  - (a) Cleaning with a solution of one part "JOY" dishwashing detergent and four parts water.
  - (b) Touching up the underside of the same color with Finish #734 (nitrocellulose lacquar) or Finish #745 through 752 and 770 (acrylic lacquer). (Painted Acrylic face plates only).
  - (c) Restoring the anti-glare surface with an application of a mixture of equal parts of #75-80 Flat Clear Acrylic Lacquer and #75-40A Clear Acrylic Lacquer obtainable from the American Lacquer Solvents Co., Phoenixville, Pa., or equivalent. (Painted acrylic face plates only.
- 2.18A One P-25E803 Retainer Card shall be packed separately with each 250-Type Face Plate.

Dials

2.19 Dials assembled in 500-Type Telephone Sets equipped with three leg brackets shall be secured with three mounting screws.

2.20 The 7-Type Dials manufactured prior to 1954 do not have locating projections (bosses) on the dial frame and they shall be assembled either in sets having three-leg dial mounting brackets or in sets having two-leg brackets equipped with locating stops for positioning the dial.

2.21 The front mounting screw on 7- and 9-Type Dials assembled in sets equipped with two-leg brackets need not be present. If present, the screw shall be run in, to prevent it from becoming loose inside the set.

### Line Switch Cover

2.22 With the exception of those sets which have the cam-slide

type line switch, all telephone sets for which line switch covers are specified on the manufacturing drawings shall be reissued with polyvinyl chloride (PVC) covers of the same piece part numbers as the clear polystyrene covers. The PVC covers have been made flame-retardant and are tinted green for identification purposes.

2.22A Those sets which have the cam-slide type line switch have been manufactured with line switch covers made of clear,

flame-retardant polycarbonate. These switch covers need not be tinted green Downloaded from TCI Library: http://www.telephonecollectors.info - Source: Connections Museum, Seattle, WA <

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#### Line Switch Cover (Cont'd.)

R 2.23 The PVC cover (P-347341) has been modified to relieve switch spring and dial dust cover interference with the line switch cover. For this application, new and old design PVC (green tinted) covers shall be used in the following manner.

- (a) The old design PVC Cover can be used on 500-Type Sets manufactured since 1967 and on 2500-Type Sets manufactured since 1967 with 35Y3A Dials. New design covers will satisfy this requirement also.
- (b) The new design PVC cover shall be used on:
  - 1. 500- and 2500-Type Sets manufactured before 1967.
  - 2. 2500-Type Sets manufactured since 1967 with dials other than 35Y3A.
- (c) All other sets designed to have P-347341 Line Switch Covers shall use the new (modified) PVC Cover.

### 3. ELECTRICAL

3.01 Lamps recovered in the assembled product shall light when tested with a voltage not to exceed the rated lamp voltage, and shall show a light that is clearly distinguishable at a distance of approximately three feet under normal lighting conditions.

### Testing of Modular Telephone Sets

R 3.02 Unless otherwise specified in the individual BSRS, modular type telephone sets shall be tested using the circuit shown on Att. Dwg. L-761177.

#### 500V Breakdown Test

**R** 3.03 With 500 volts RMS, 60 Hz, ac applied, wiring and currentcarrying parts shall not be crossed electrically with noncurrent-carrying metal parts. This test condition shall be capable of being met with the switchhook in the off-hook position.

### Line Switch Cover (Cont'd.)

R 2.23 The PVC cover (P-347341) has been modified to relieve switch spring and dial dust cover interference with the line switch cover. For this application, new and old design PVC (green tinted) covers shall be used in the following manner.

- (a) The old design PVC Cover can be used on 500-Type Sets manufactured since 1967 and on 2500-Type Sets manufactured since 1967 with 35Y3A Dials. New design covers will satisfy this requirement also.
- (b) The new design PVC cover shall be used on:
  - 1. 500- and 2500-Type Sets manufactured before 1967.
  - 2. 2500-Type Sets manufactured since 1967 with dials other than 35Y3A.
- (c) All other sets designed to have P-347341 Line Switch Covers shall use the new (modified) PVC Cover.

### 3. ELECTRICAL

3.01 Lamps recovered in the assembled product shall light when tested with a voltage not to exceed the rated lamp voltage, and shall show a light that is clearly distinguishable at a distance of approximately three feet under normal lighting conditions.

### Testing of Modular Telephone Sets

R 3.02 Unless otherwise specified in the individual BSRS, modular type telephone sets shall be tested using the circuit shown on Att. Dwg. L-761177.

#### 500V Breakdown Test

R 3.03 With 500 volts RMS, 60 Hz, ac applied, wiring and currentcarrying parts shall not be crossed electrically with noncurrent-carrying metal parts. This test condition shall be capable of being met with the switchhook in either the on-hook or off-hook positions, or during switchhook operation.

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#### 3. ELECTRICAL

Lamps recovered in the assembled product shall light when 3.01 tested with a voltage not to exceed the rated lamp voltage, and shall show a light that is clearly distinguishable at a distance of approximately three feet under normal lighting conditions.

3.02 Unless otherwise specified in the individual BSRS, modular type telephone sets shall be tested using the circuit shown on Att. Drawing L-761177.

### INSULATION BREAKDOWN TEST

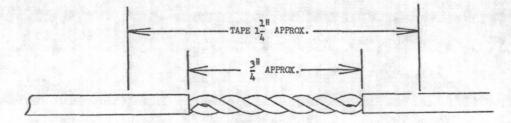
- 3.03 (a) The current that flows when a potential 1000 volts RMS 60 Hz is applied between the simplexed telephone connections (tip and ring) and exposed conducting surfaces of "registered" telephone sets shall be as specified in X-17986, Issue 3.
  - (b) The current that flows when a potential of 1500 volts RMS 60Hz is applied between all power connections and points having a conducting path to the secondary of any power supply of "registered" telephone sets shall be as specified in X-17986, Issue 3.
  - (C) "Grandfathered" and non-registered telephone sets shall satisfy the 500 Volt 60Hz insulation breakdown test performed in accordance with Specification X-38, supplement C.
  - (d) Requirements 3.03(a), (b), and (c) shall be tested with the switchhook in the off-hook positions. Sets shall be capable of meeting 3.03(a), (b) and (c) with the switchhook in the on-hook position.
  - (e) Requirements 3.03a, b and c shall be tested with the set in it's normal operating position.
  - (f) Class C components intended for installation in Class C "registered" telephone sets or shipped loose to the field shall meet the 1000 Volt RMS 60Hz insulation breakdown requirements specified in X-17986 Issue 3 when the test potential is applied between the points specified in the individual BSRS. All other components shall satisfy the 500 Volt RMS 60Hz requirement specified in X-38 Supplement C when the test potential is applied between the same points.
  - The current that flows when a potential of 1500 volts (g) RMS 60Hz is applied between all power connections and points having a conducting path to the secondary of any power supply of Class C components for use with "registered" telephone sets shall be as specified in X-17986, Issue 3.

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### Splicing of Component Leads

3.04 The leads on components in telephone sets and telephone set bases, other than those of tinsel ribbon conductor construction, may be spliced (rather than replaced) with a solder < connection as follows:

- 1.) The conductor lead used for the splice shall be of sthe same type and color as the lead on the component.
- The overall length of the lead after splicing shall be within ± 1/2 inch of the nominal lead length for the manufactured product.
- 3.) No more than three leads in a telephone set or base shall be permitted to be spliced. This is an addition to the number of splices permitted for cords as covered in the applicable BSRS.
- 4.) Outer insulation shall be removed. Removal shall not result in damage to a solid wire conductor or remove more than two strands of a stranded wire lead.
- 5.) Solder splices shall be in accordance with the following drawing.



- 6.) Solder spliced areas shall be insulated by wrapping two complete turns of plastic electrical tape around the wire so that the tape overlaps the wire insulation on both ends of the splice by at least 1/4 inch.
- 3.04A Existing B-wire connections need not be removed.

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Connections

3.05 Unless otherwise specified in the individual BSRS, sets shall be connected in accordance with the applicable wiring diagrams listed on the BSRS Index. If the drawing is not listed and the product is being manufactured, the set shall be wired according to latest manufacturing information.

3.06 Telephone sets and telephone set bases may be reissued having dials equipped with different color leads on the pulsing contacts (i.e. -blue and green or blue and blue/green connected in the following manner:

Dial Pulse Lead Color	Network Terminal Designation
Blue	F
Green or Blue/Green	RR
c	r
Green or Blue/Green	F
Blue	RR

### 4. MODIFICATIONS AND CONVERSIONS

Radio Frequency Suppression of "Grandfathered" Sets

- 4.01 Omitted on issue 5 of this page. Information now carried in the individual BSRS's.
- 4.02 Omitted on issue 5 of this page. Information now carried in the individual BSRS's.
- 4.03 Omitted on issue 5 of this page. Information now carried in the individual BSRS's.

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### Radio Frequency Suppression (Cont'd.)

4.04 Omitted on issue 4 of this page. Information now carried in the individual BSRS's.

### Sets Equipped with Convertible Touch-Tone Dials

4.05 Unless otherwise specified by the telephone company, sets equipped with 10-Button Touch-Tone Dials (25P4, 25R3, 25W3, and 25Y3) that have been converted to 12-Button Dials shall be reissued as 12-Button Telephone Sets.

4.06 When specified by the telephone company, telephone sets equipped with convertible 10-Button Touch-Tone Dials, as shown in the following table, shall be converted to 12-Button Touch-Tone Dial Sets in accordance with BSRS-451.917.

Type	of Set	Convertible Dial
	GP Desk Set	25W3
1500	GP Wall Set	25W3
1560	Multibutton Key Set	25W3
1660	Card Dialer Set and 26	25R3
	Card Dials	
1700	Princess Set	25P4
	Panel Set	25W3
Sets	for use with Speakerphone	25Y3

4.07 The code marking on the base of the converted sets and on the cartons shall agree with the Standard 12-Button Code (2000 Series).

4.08 Telephone sets equipped with 10-Button, 25-Type, Touch-Tone dials, which are not converted to 12-Button Dials may be reissued with a D-180597 Kit of Parts and an equivalent 12-Button Type Housing or Faceplate. This requirement does not apply to sets having 25E, H, L or P-Type Dials.

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- 4.09 This addition of options to "registered" sets is permissible only when the combination has previously been registered.
  - 4.10 Modifications which would change the basic registration of the set are not permitted.

#### CONVERSION OF REGISTERED SETS

4.11 The conversion of a "registered" set to another code is permissible provided the set is converted to a registered type, the parts used are approved for use and the converted set satisfies all BSRS requirements applicable to the new code. The old registration label shall be removed, if not applicable to the new code, and the appropriate new registration label shall be applied to the set. The original date of manufacture shall remain on the set.

4.12 The conversion of a "registered" set to a "grandfathered" set or a "grandfathered" set to a "registered" set is not permissible.

### 5. MARKING

5.01 All "Grandfathered" telephone sets, telephone bases, and telephone set bases shall be marked on the outer surface in the following manner.

- (a) The original date of manufacture shall be retained if the date the set is repaired is twelve (12) months or less from the original date of manufacture. (e.g. a set manufactured in July 1978 will retain its mfg. date thru July 1979.)
  - 1.) The product code and repair date shall be present.
  - 2.) The repair date shown on an adhesive backed printed label or ink stamped on the base shall be located in close proximity to the manufacturing date but so as not to interfere with the set code or manufacturing date markings.
- (b) The original date of manufacture shall be covered or removed from the base if the date the set is repaired is more than twelve (12) months from the original date of manufacture. (e.g. a set manufactured in July 1978 will have its manufacturing date removed or covered in August 1979).
  - 1.) The product code and repair date shall be present.
  - 2.) If labels are used to designate the marking, the date of manufacture shall be covered over by the label.

3.) If ink stamping is used, the date of manufacture shall be removed from the outer surface of the base. Downloaded from TCI Library: http://www.telephonecollectors.info - Source: Connections Museum, Seattle, WA

### 5. MARKINGS (Cont'd.)

- 5.01 Continued -
  - (c) The location of the code and date marking shall be the same as that specified for current product, or as specified for the specific tel set or base when issued as new product. The character size shall be 1/8 inch minimum.
  - (d) All required markings shall be readable under average lighting conditions.
  - (e) Either adhesive-backed printed labels or ink stamping shall be used to designate the code and/or repair date.
  - (f) If ink marking is employed; orange or vermillioncolored ink may be used in lieu of aluminum or black.
  - (g) If labels are used, they shall be white in color with black printing.
  - (h) Adhering one label on top of another for subsequent recovery or repair operations shall not be permitted.
  - (i) The existing (old) repair date shall be removed.
- 5.02 On all "registered" telephone sets, telephone bases, and telephone set bases:
  - (a) The registration label, set code, and date of manufacture shall be retained. If any of these markings are unreadable under average lighting conditions, they shall be restored as specified for the specific telephone set or base when issued as new product except that when restoring the product code marking it may be combined with the repair date information. Registration labels shall always be applied directly to the flat surface of the substrate. It shall not be applied over an existing hole, a rivet, "Bell System Property Not For Sale" permanent stamping or other markings. It is permissible to apply one registration label over the existing registration label (maximum of two labels). In applying one registration label over another registration label, the alignment of the two labels must be exact.

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### 5. MARKINGS (Cont'd)

### 5.02 Continued -

(b) The repair date and/or combined repair date and code information shown on an adhesive backed printed label or ink stamped on the base shall whenever possible be located in close proximity to the manufacturing date but so as not to interfere with other markings listed in this specification. Existing old repair dates shall be removed. Adhering one repair date label on top of another for subsequent recovery or repair operations shall not be permitted.

5.03 The repair marking shall be in Arabic numerals and shall consist of the repair symbol "R" followed by the year, a dash (or repairing location if applicable), and the month. For example, a set repaired during July, 1980 would be marked R80-7. If the repair was done at a Service Center that is required to use a location symbol it would be R80XX7.

#### Bell System Property Markings

5.04 "Bell System Property Not For Sale" marking shall be present on the exterior of the bases of all telephone sets not equipped with telephone company set identification marking. Where such marking has not been steel stamped in manufacture, marking shall be by means of a label.

- (a) The location of the label on the base shall be the same as new. For type of sets where Bell System Property marking location has not been extablished, the label shall be located convenient for application and consistent with standardized steel stamping practice.
- (b) Two label sizes have been established. Selection of label may be made to suit location. Specifications are:

	Equip. Sketch No.	Charac. Size & Type Spec.	Comcode Number	Label Size
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RS-9153	B-140763	401306154	.50"X.75"
	RS-9154	B-140764	401306162	.25"X1.25"

(Color shall be black on a white background.)

(c) Labels shall be of the W. H. Brady Company, 727 W. Glendale Avenue, Milwaukee, Wisconsin, Tamperproof-Type XB-351 with the adhesive bonding action stronger than the vinyl backing such that attempted removal of label without leaving pieces is very difficult.

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### 5. MARKINGS (Cont'd)

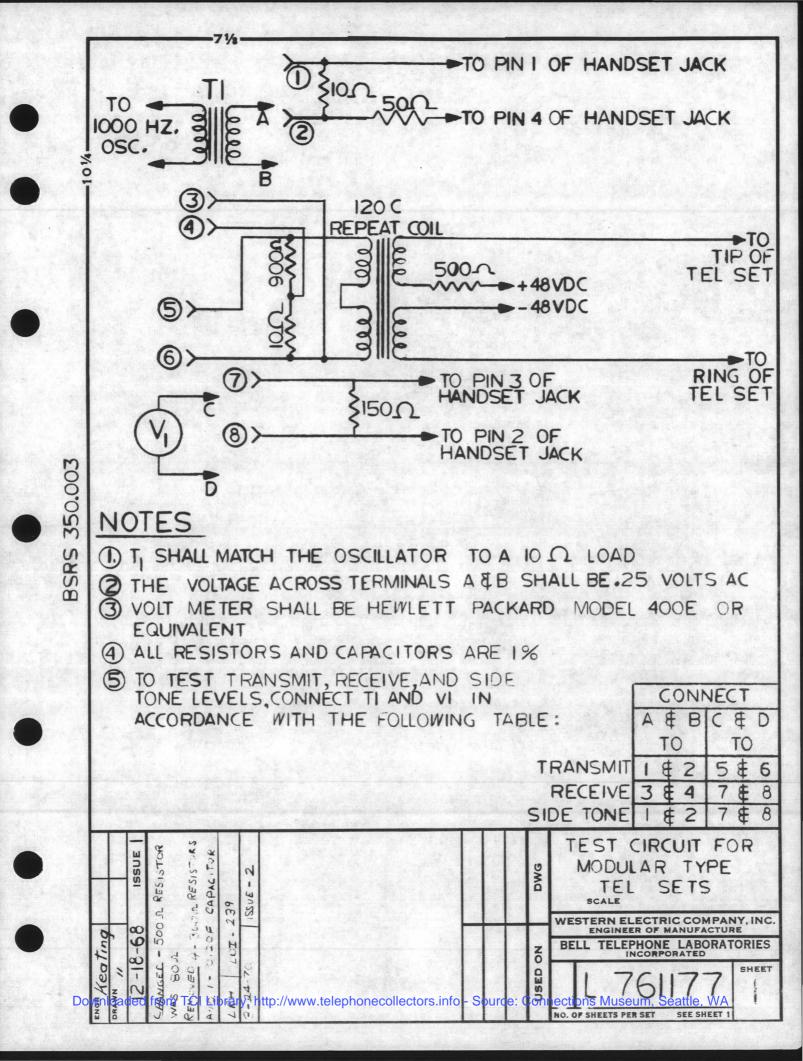
5.04A The "Bell System Property Not For Sale" marking need not be readable on Handsets and Housings.

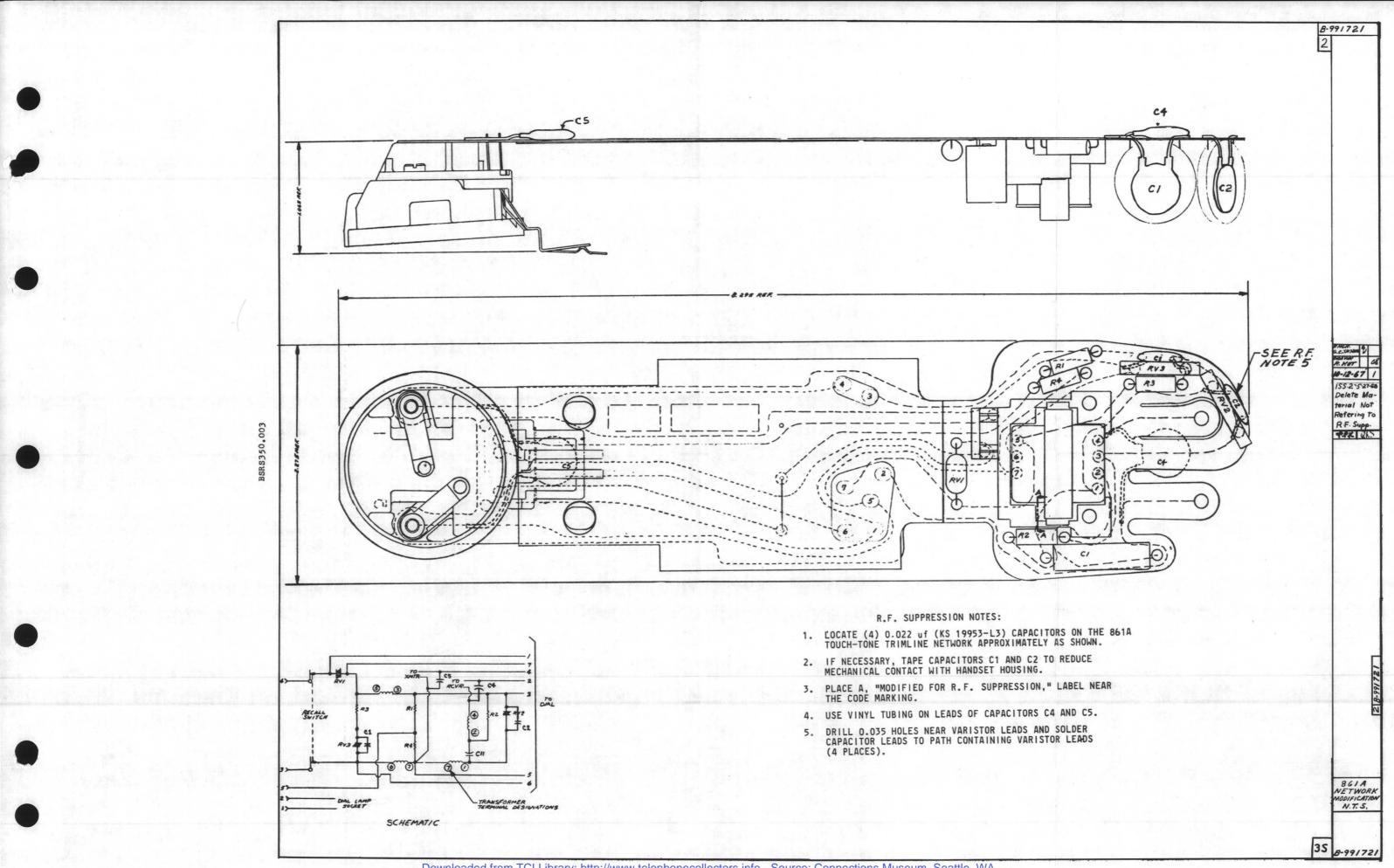
### Telephone Company Set Identification Marking

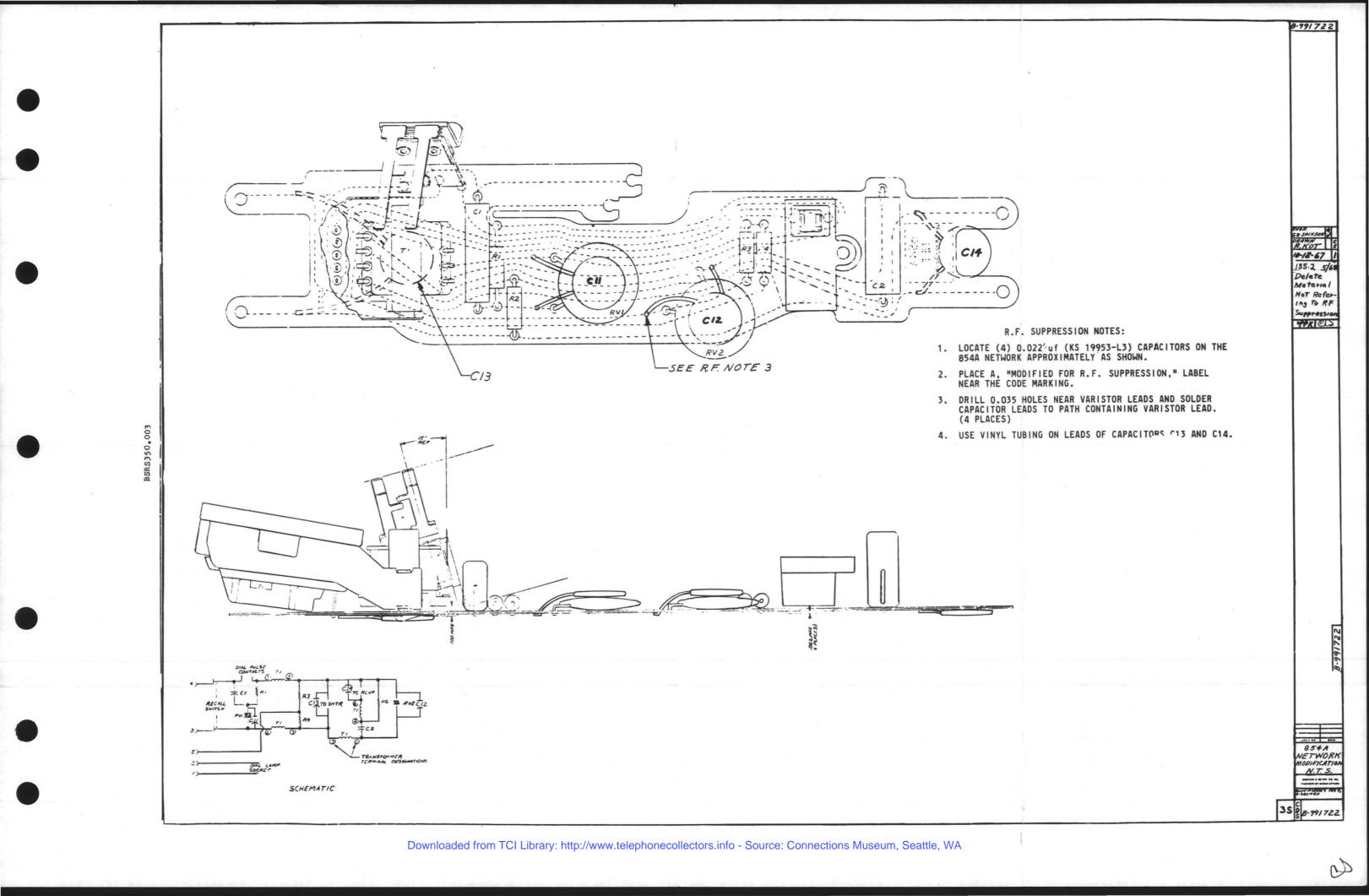
5.05 Reissued sets need not have existing Telephone Company Ownership labels removed provided the labels meet all other standards.

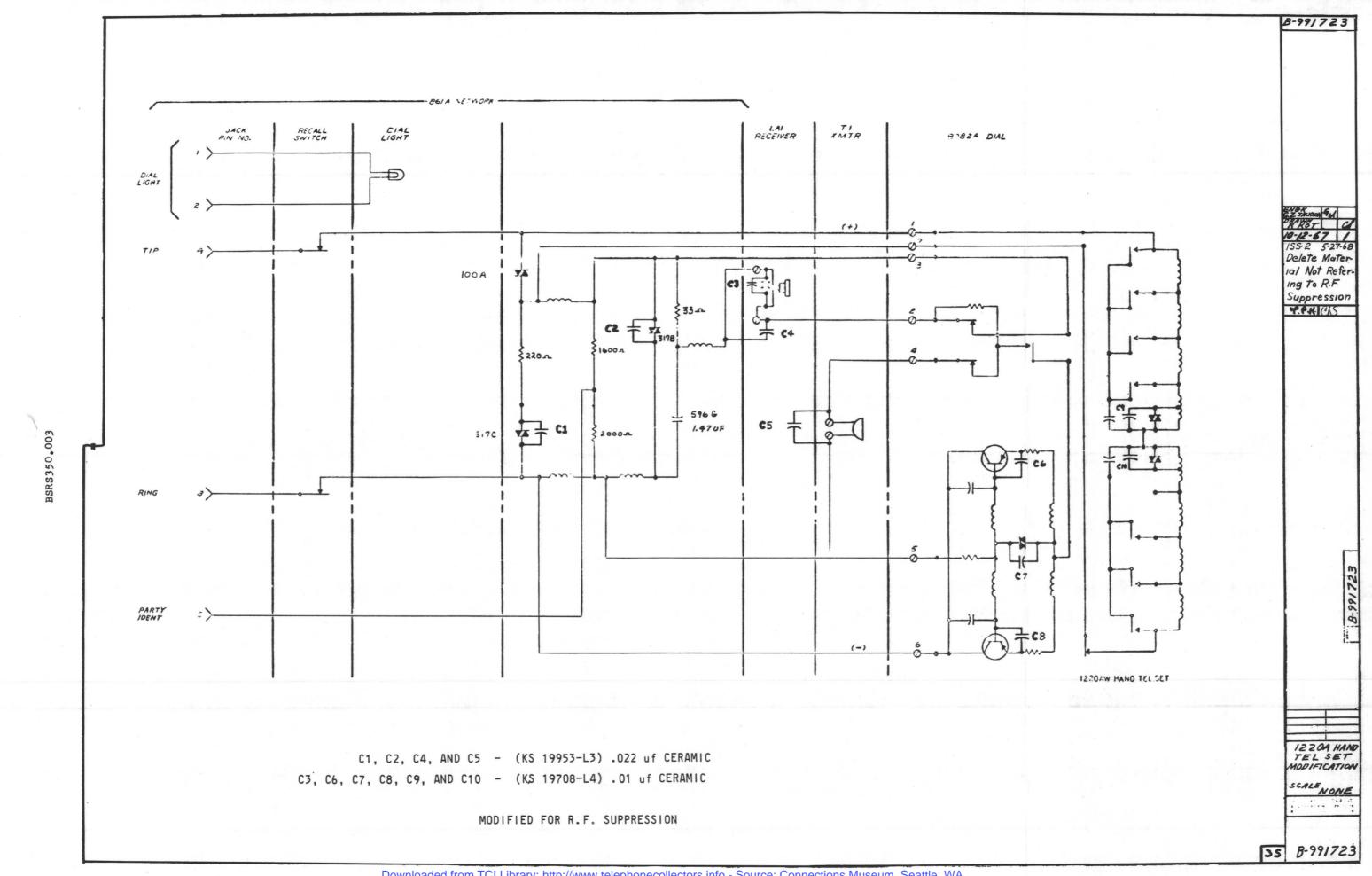
### 6. PACKING

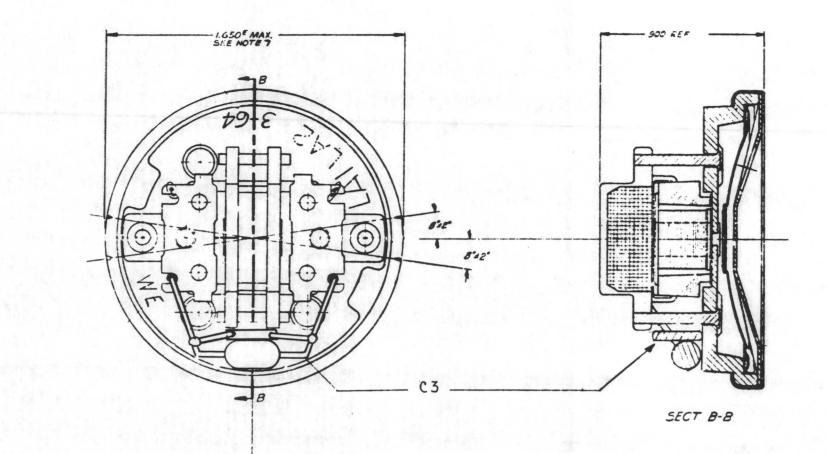
6.01 In order to comply with FCC Regulation Part 68.218 an information insert shall be packed with each registered set. Customer owned Design Line® Telephone Sets are excluded.







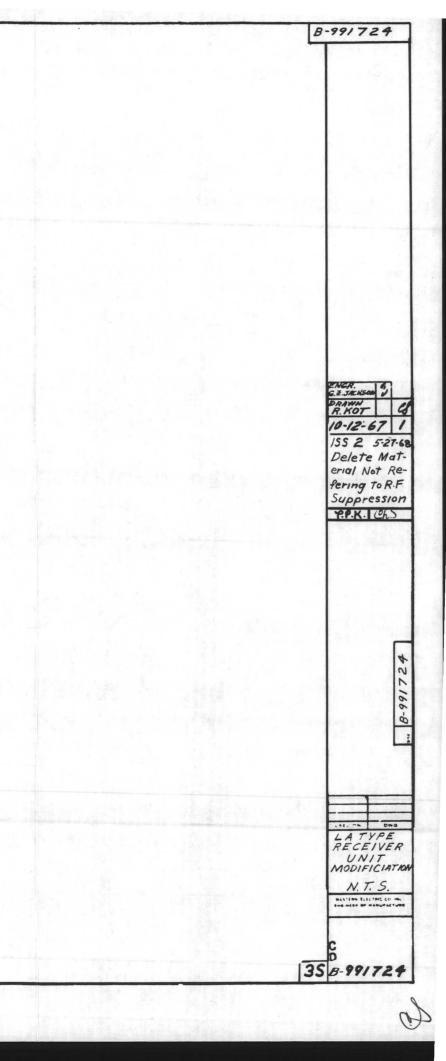


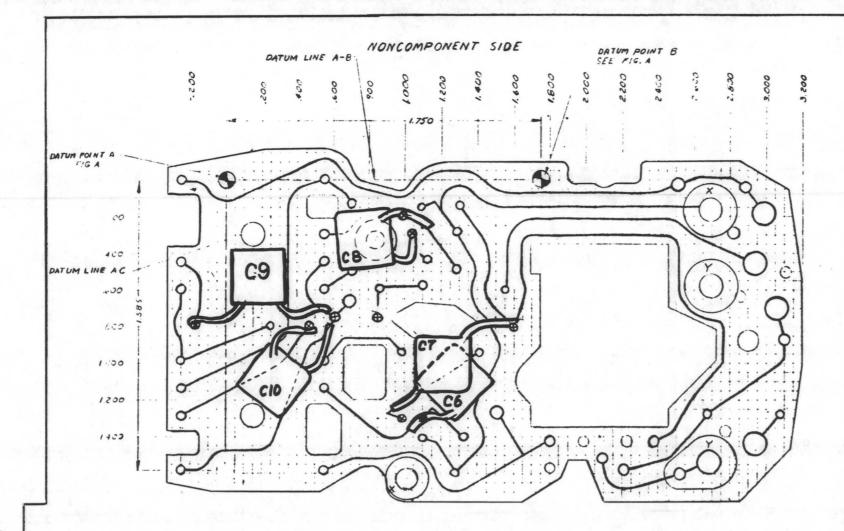


BSRS350.003

R.F. SUPPRESSION NOTES:

- LOCATE (1) 0.01 uf (KS 19708-L4) CAPACITOR ON THE LA1 RECEIVER UNIT APPROXIMATELY AS SHOWN.(C3)
- 2. PLACE INSULATING TAPE AROUND THE CAPACITOR TO PROVIDE ELECTRICAL AND MECHANICAL PROTECTION.





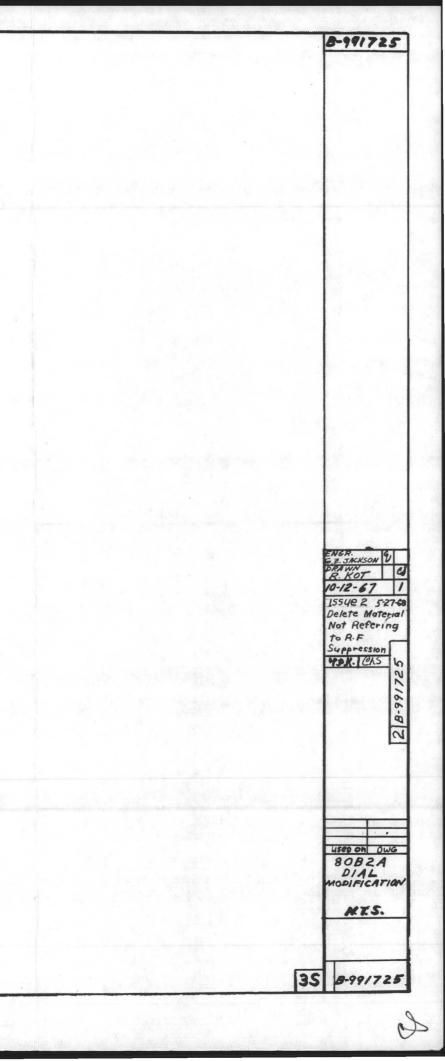
R.F. SUPPRESSION NOTES:

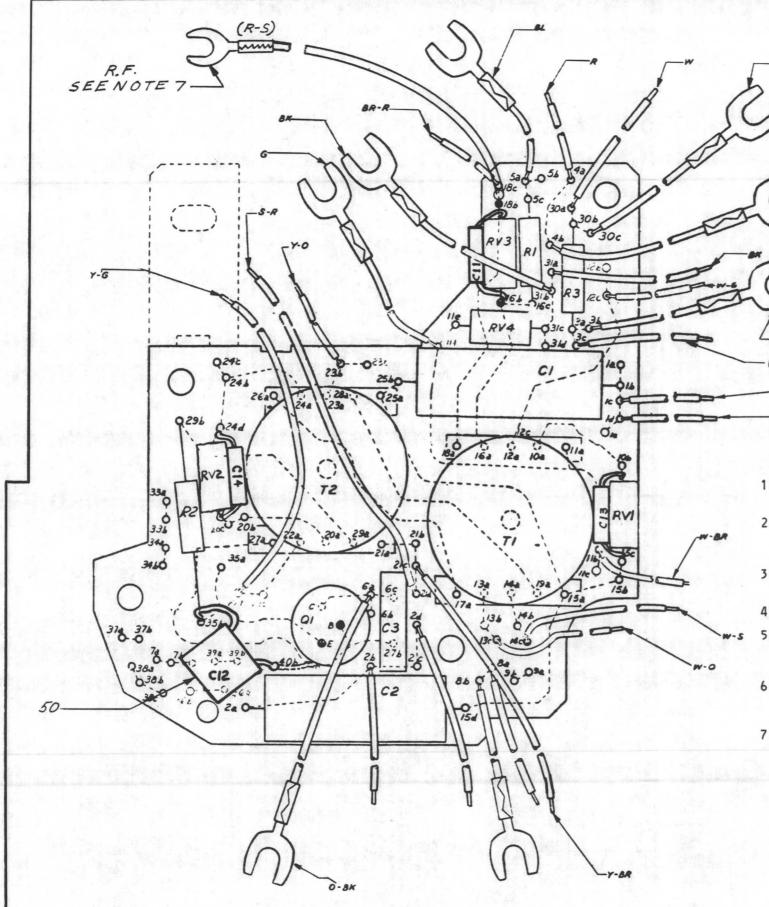
- 1. LOCATE (5) 0.01 uf (KS 19708-L4) CAPACITORS ON THE 80B2A TOUCH-TONE TRIMLINE DIAL APPROXIMATELY AS SHOWN.
- 2. PLACE INSULATING TAPE UNDER CAPACITORS FOR ELECTRICAL AND MECHANICAL PROTECTION. USE VINYL TUBING ON THE LONG CAPACITOR LEADS.

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- 3. DINDICATES TERMINAL AREAS BEING BYPASSED BY THE APPROPRIATE CAPACITOR.
- 4. RETUNE DIAL AFTER MODIFICATION.
- 5. PLACE A, "MODIFIED FOR R.F. SUPPRESSION," LABEL NEAR THE CODE STAMP ON THE FACE OF THE DIAL.

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BSRS350.003

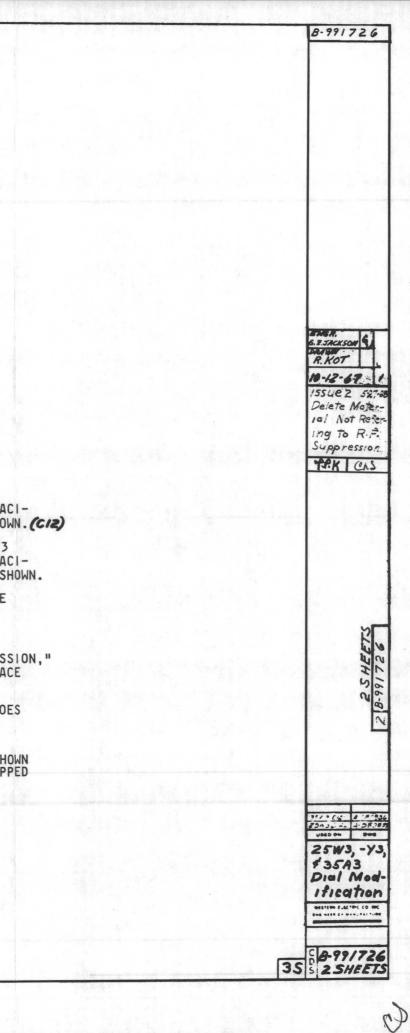


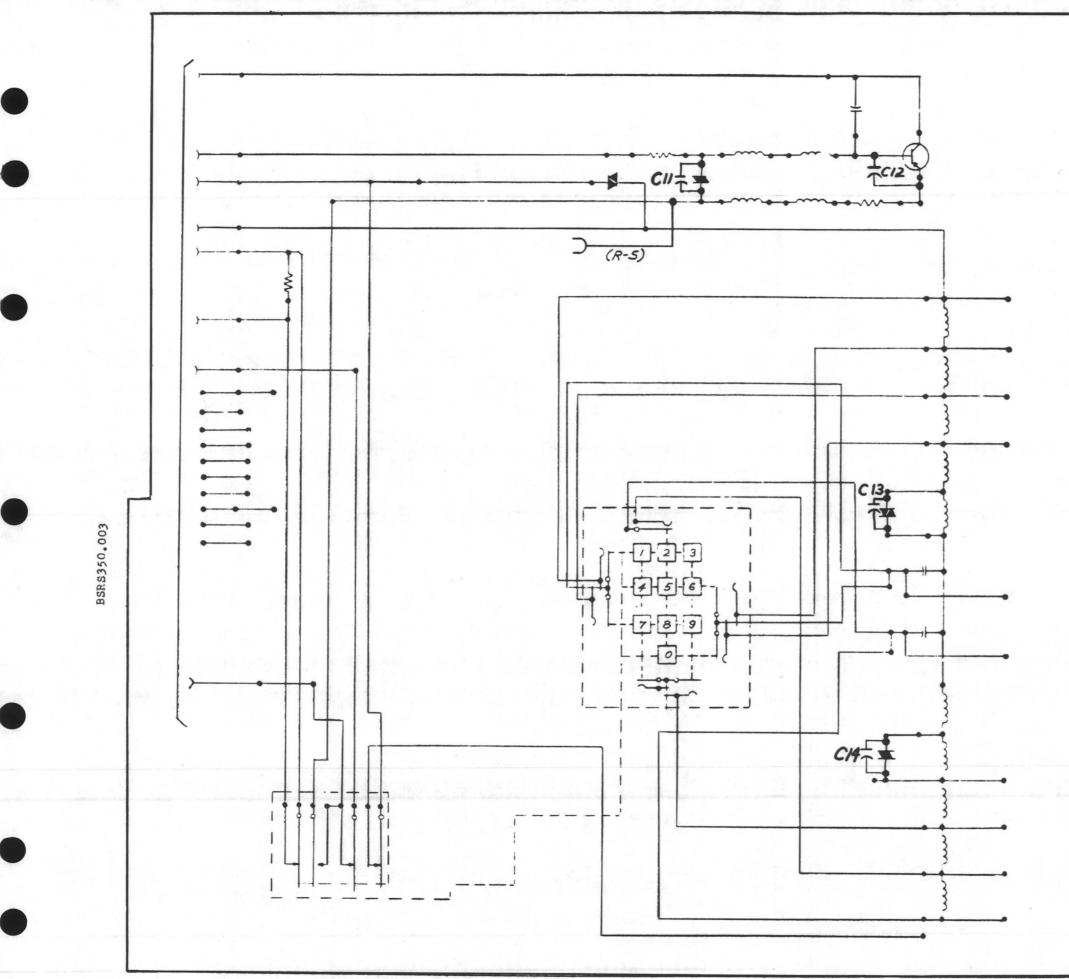
**R.F. SUPPRESSION NOTES:** 

V-AL

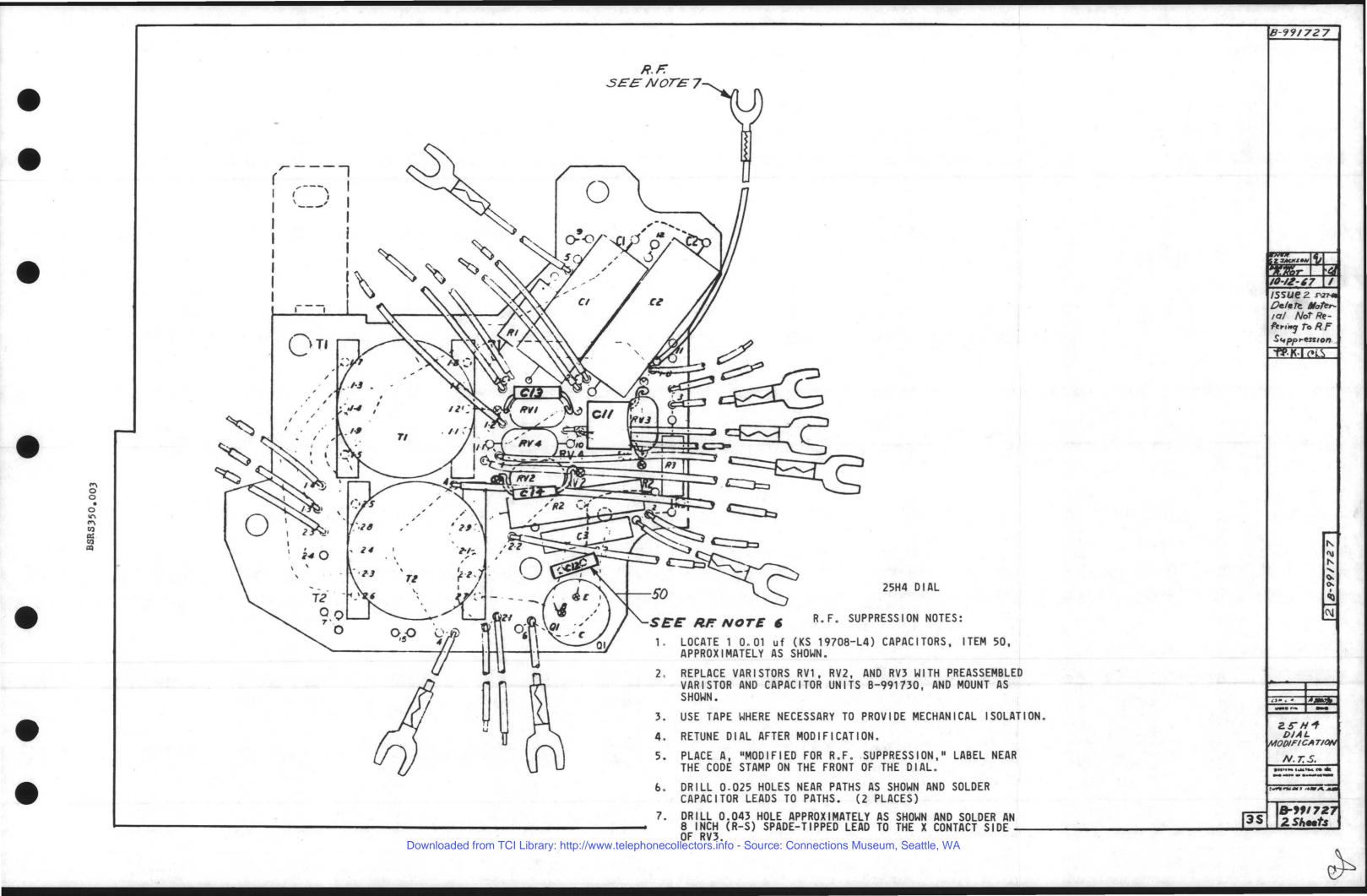
N-AL

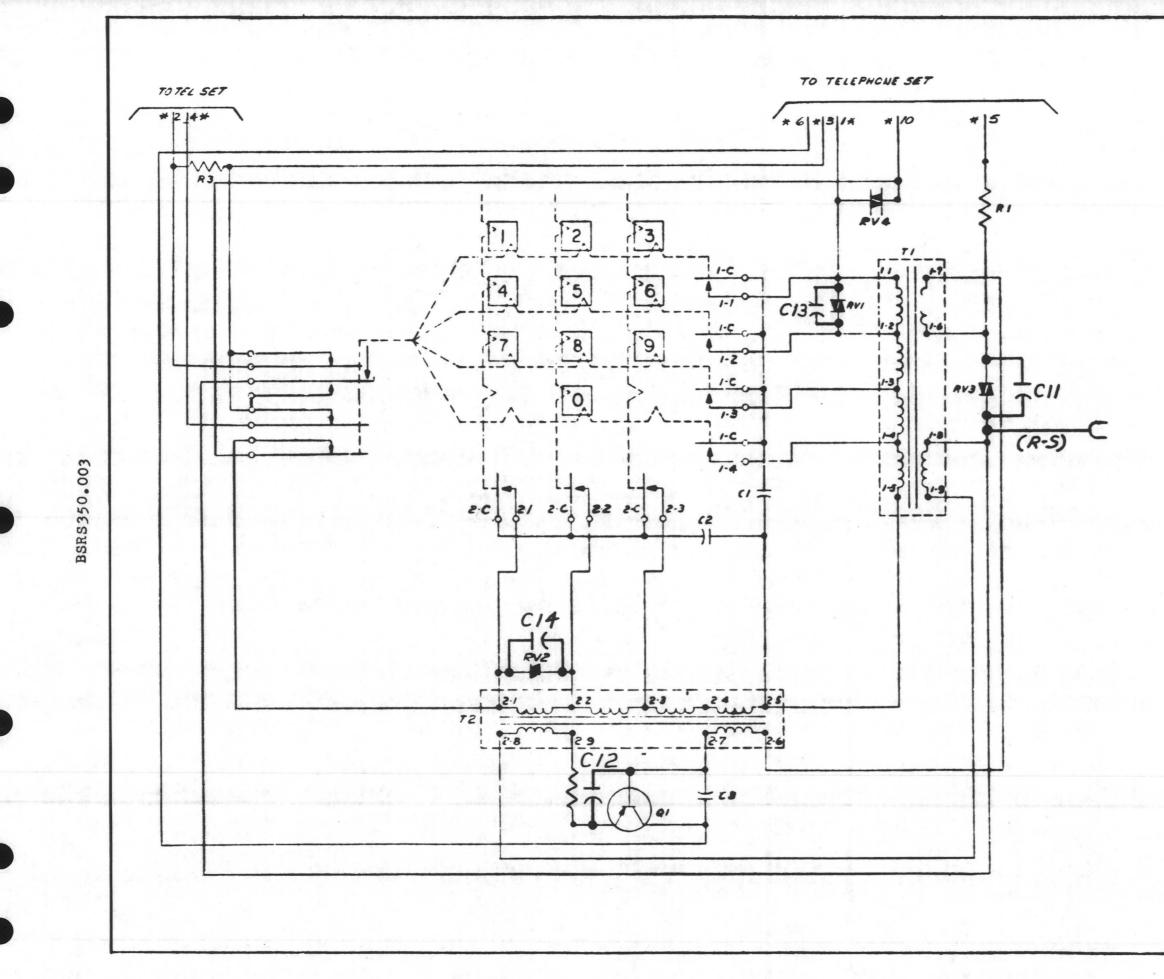
- 1. LOCATE (1) 0.01 uf (KS 19708-L4) CAPACI-TORS, ITEM 50, APPROXIMATELY AS SHOWN. (CI2)
- REPLACE VARISTORS RV1, RV2, AND RV3 WITH PREASSEMBLED VARISTOR AND CAPACI-TOR UNITS (B-991730) AND MOUNT AS SHOWN.
- 3. USE TAPE WHERE NECESSARY TO PROVIDE MECHANICAL ISOLATION.
- 4. RETUNE DIAL AFTER MODIFICATION.
- 5. PLACE A, "MODIFIED FOR R.F. SUPPRESSION," LABEL NEAR THE CODE STAMP ON THE FACE OF THE DIAL.
- 6. CAPACITOR C12 CONNECTS TO R2 AND GOES THROUGH HOLE 40b TO BE SOLDERED TO PATH BETWEEN HOLES 27a AND 27b.
- DRILL 0.043 HOLE APPROXIMATELY AS SHOWN AND SOLDER AN 8 INCH (R-S) SPADE-TIPPED LEAD TO THE X CONTACT SIDE OF RV3.

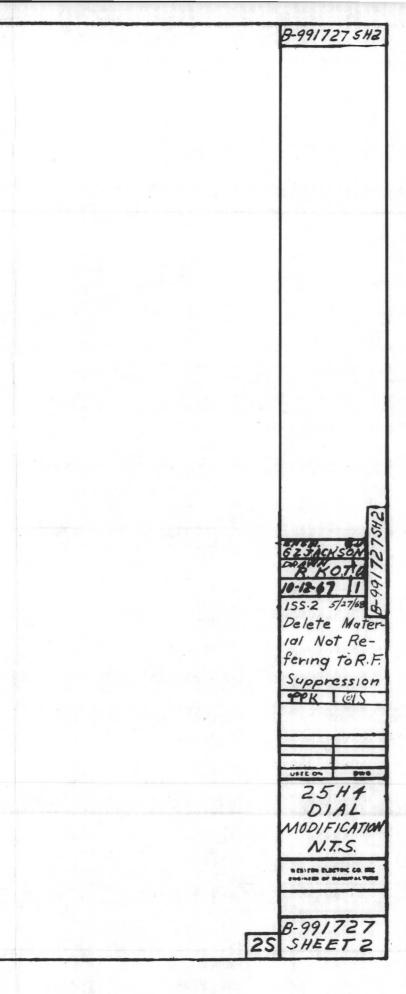




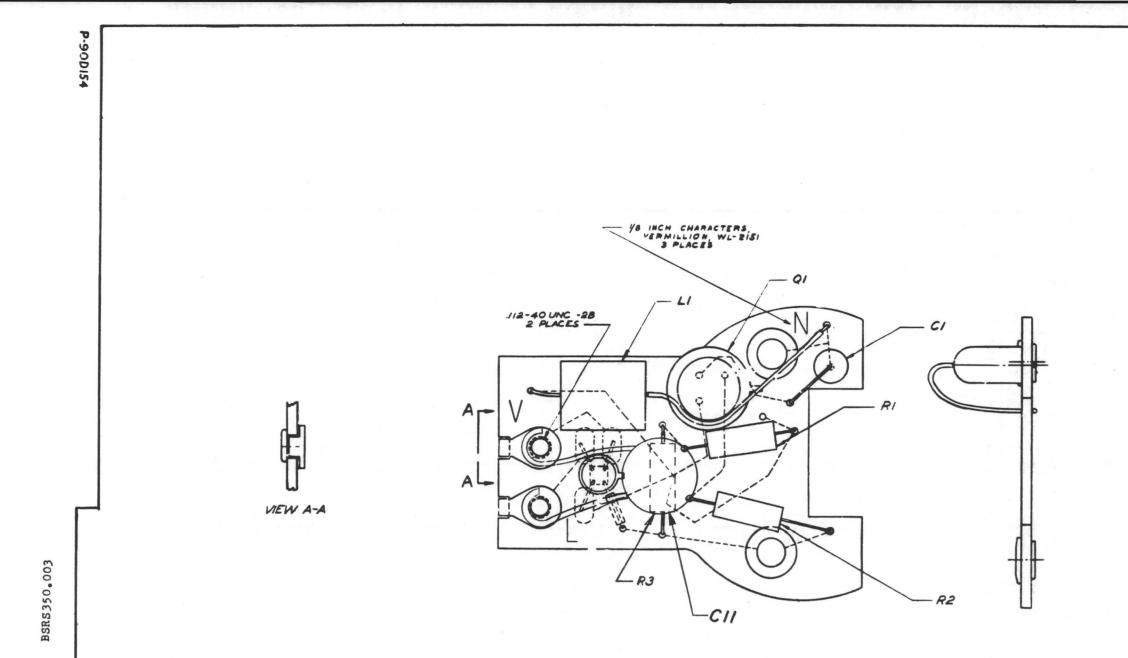
B-9917265H2 ENGR SZ JACKSON R. KOT U 10-12-67 1 1552 5-27-68 Delete Material Not Refer-ing to R.F. Suppression **F.P.K.** CLS 545 8-941725 ----------25W3¢ 35A3 DIAL MODIFICATION NTS 35 SHEET 2 0





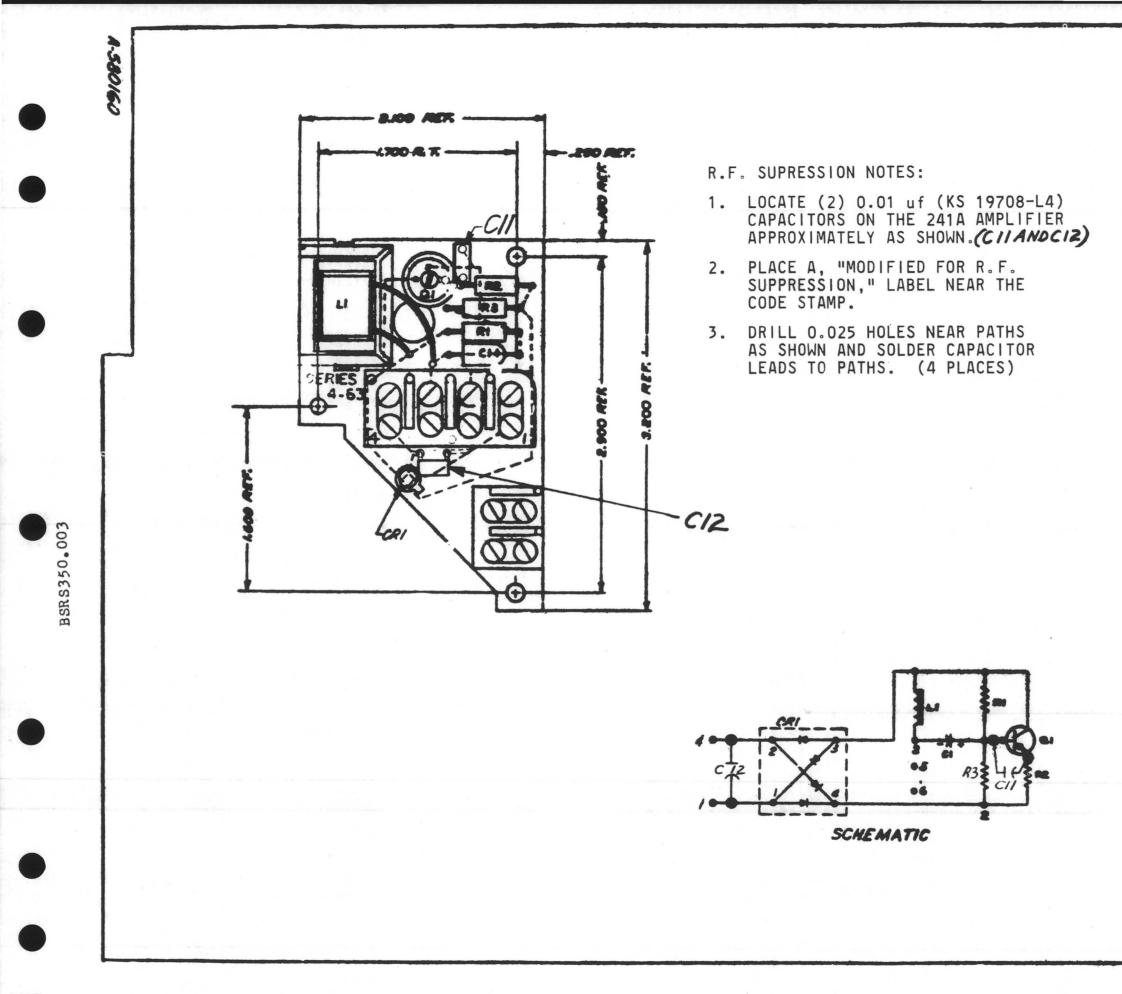


as

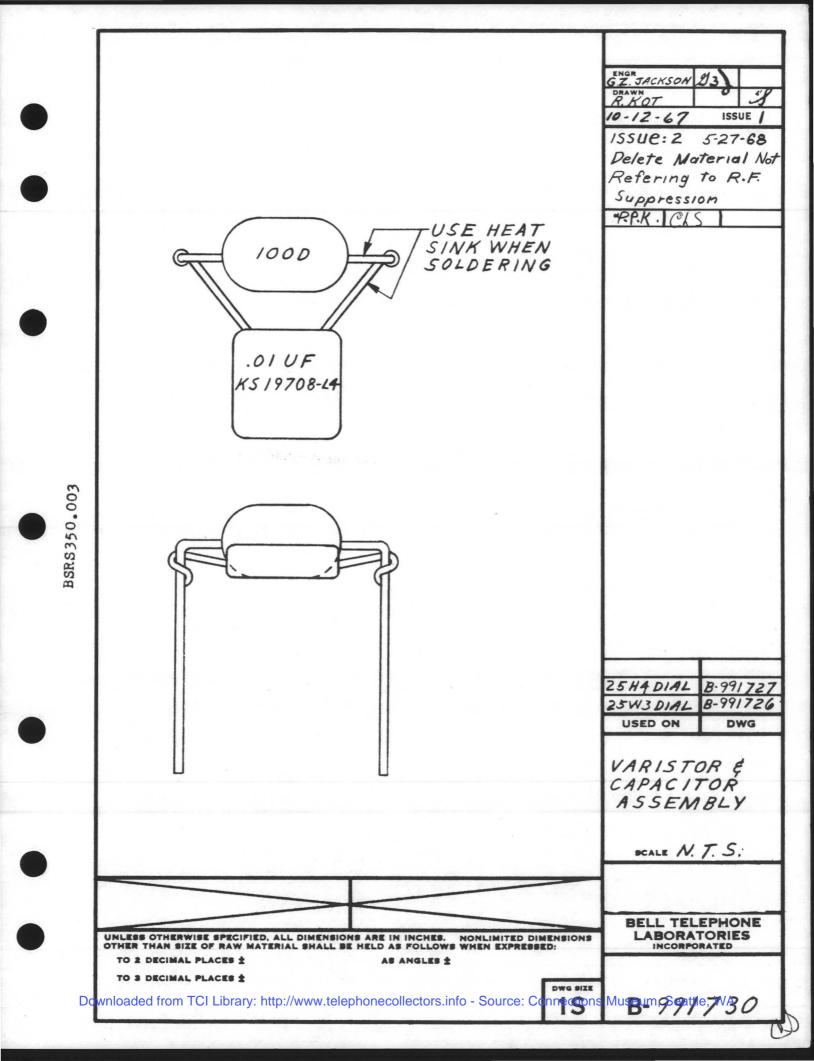


- R.F. SUPPRESSION NOTES:
- 1. LOCATE (1) 0.022 uf (KS 19953-L3) CAPACITOR ON THE 227A AMPLIFIER APPROXIMATELY AS SHOWN. (CII)
- 2. USE VINYL TUBING ON CAPACITOR LEADS.
- PLACE A, "MODIFIED FOR R.F. SUPPRESSION," LABEL ON THE TRANSMITTER CUP.

8-991728 ENGR. GZJACKSON J DRAWN R. KOT 10-12-67 155.2 5-27-68 Delete Mater ial Not Refering to R.F. Suppression P.P.K. QS 28 2 8-991 7774 AM-L A-590128 AMPLIFIER MODIFICATION N.T.S ------35 5 B-9947.28 -D

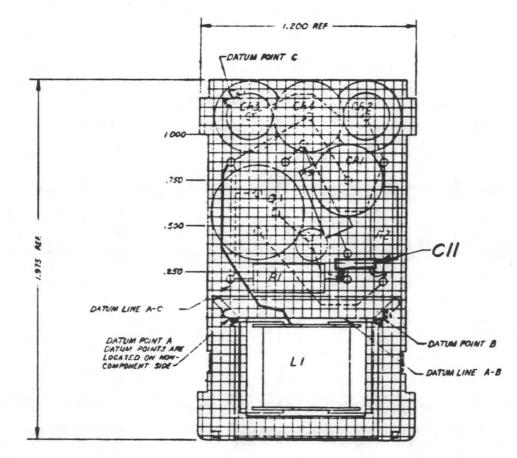


8-991729 ENGR. GE JACKSON DRAWN R.KOT 10-12-67 155.2 5-27-68 Delete Material Not Refering To R.F. Suppression P.P.K 1015 2 8-991729 1 241A AMPLIFIER MODIFICATION N.T.S. 35 B-991729 0



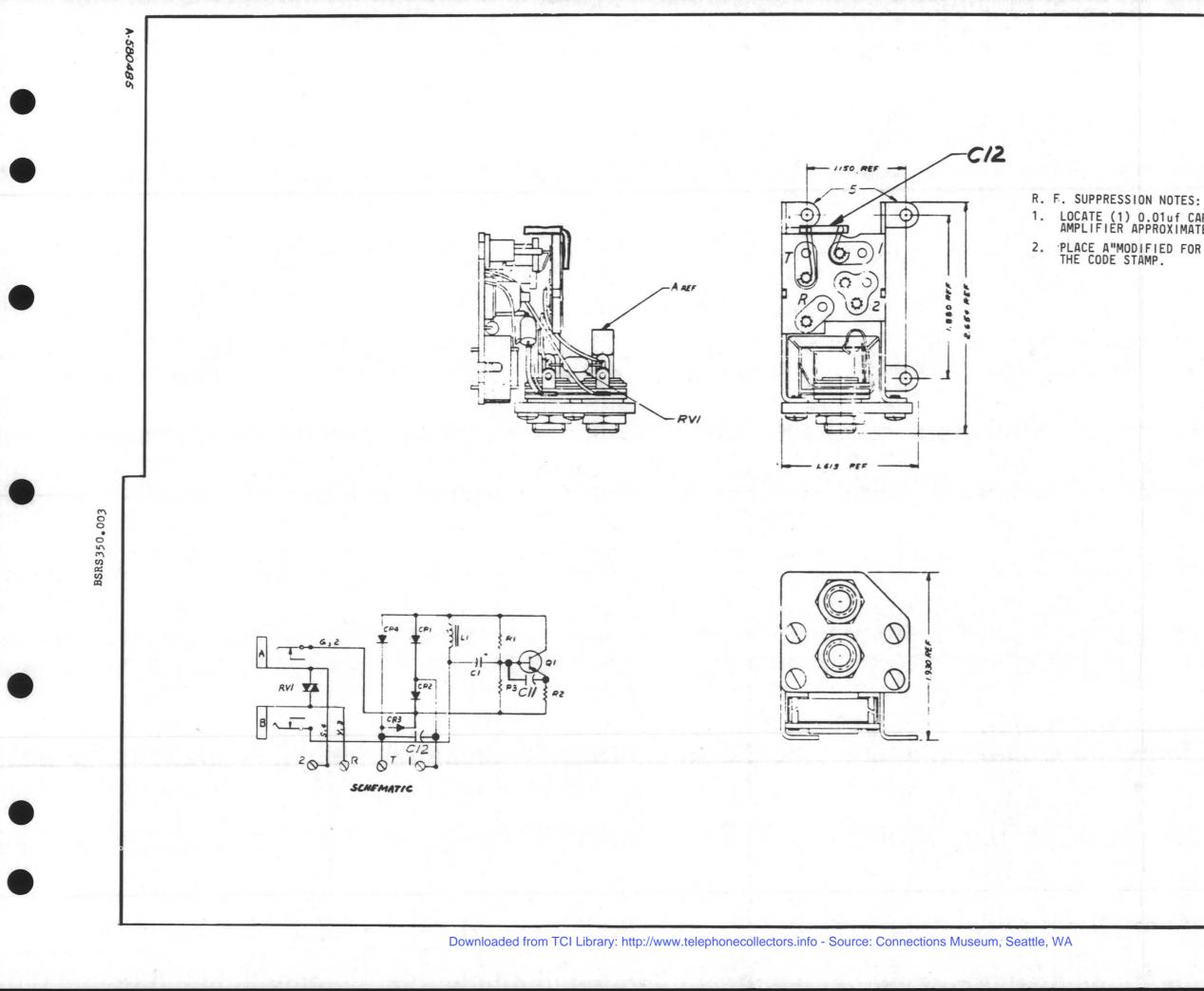
R. F. SURPRESSION NOTES:

 LOCATE (1) 0.01uf (KS 19708-L4) CAPACITOR APPROXIMATELY AS SHOWN. (C11)

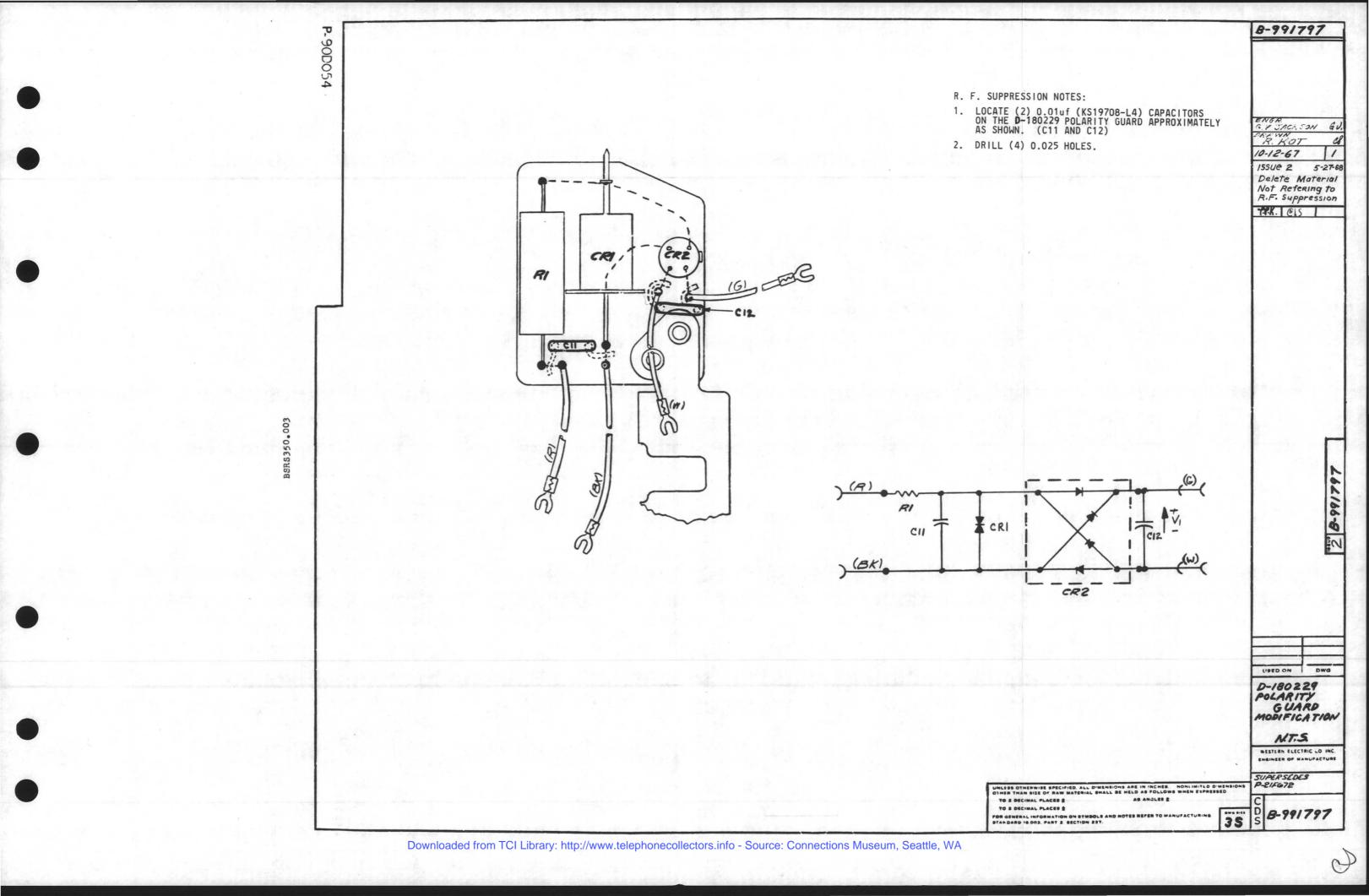


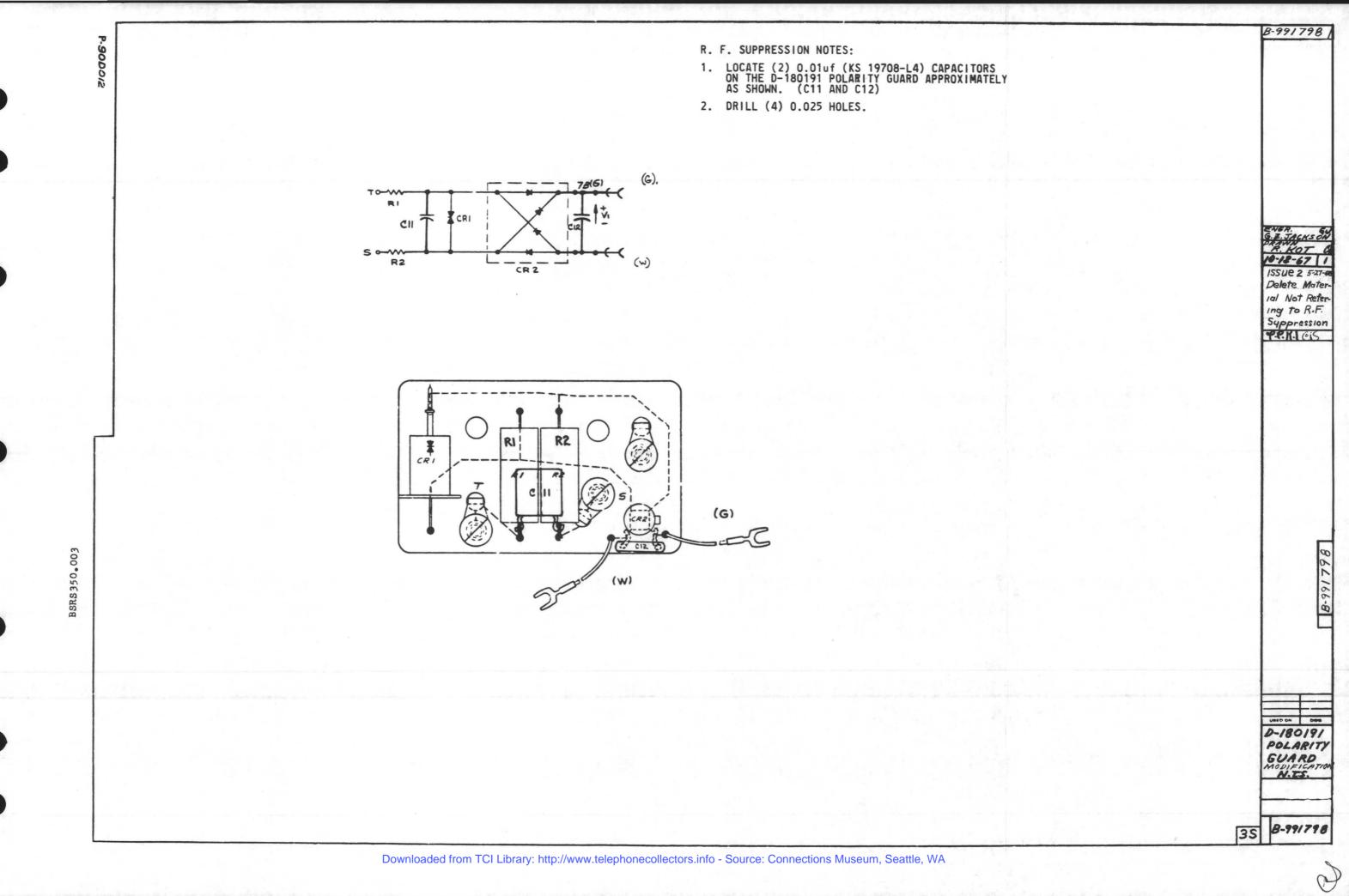
BSRS350.003

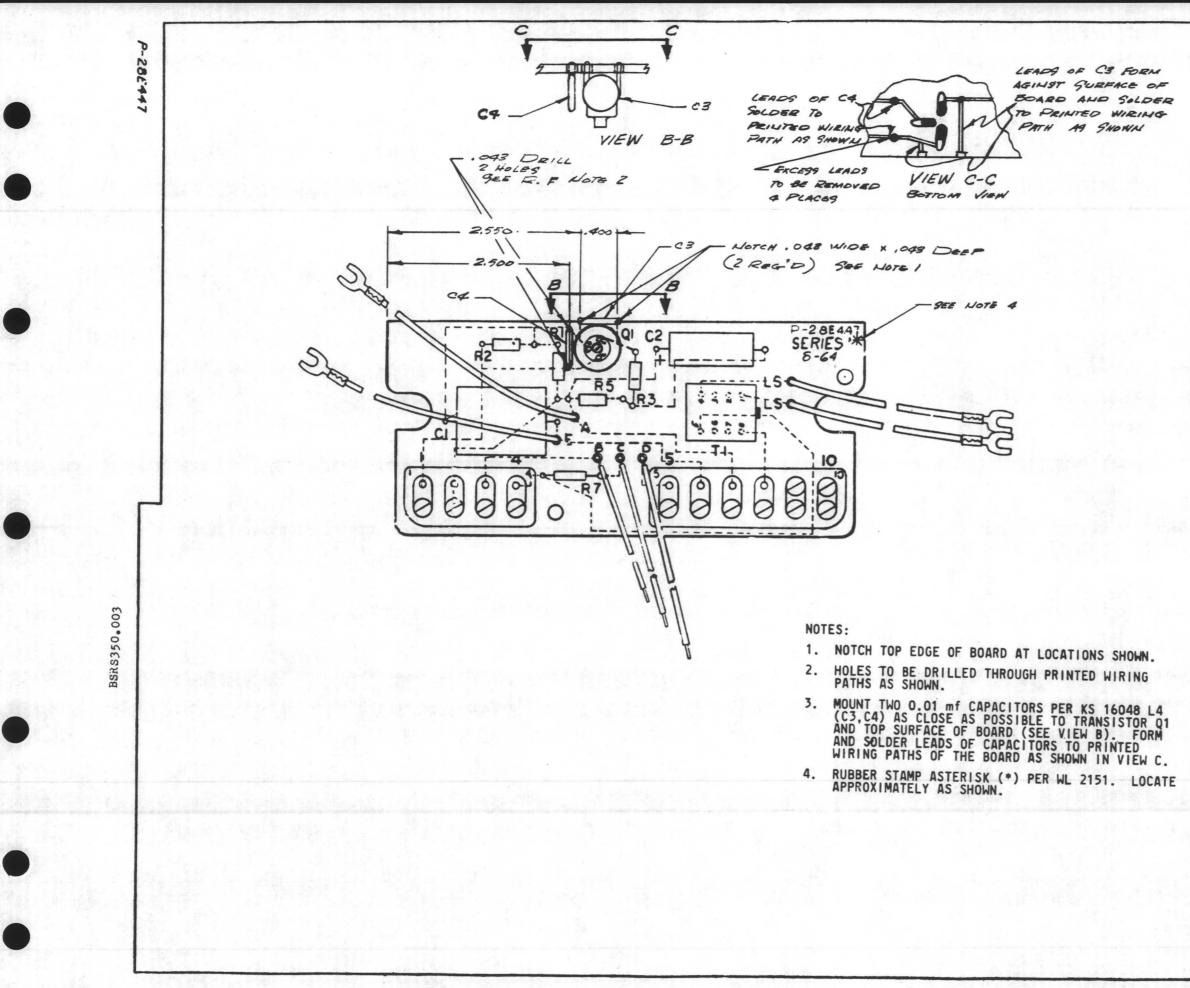
2 SHEETS 8-991796 3 ENGR. GEJACKSON DRAWN R KOT 10-12-67 1 ISSUE 2 5-27-68 JSSUE 2 521-88 Delete Mater-Ial Not Re-fering to R.F. Suppression **Y.P.K.** Ciss RSSK 8 242 AMPLIFIER MOLIFICATION ILTS. -----8-99/796 2 SHEETS 3 S Sheet #1 0



8-991796 52 ENGR GZJACKSON DRAWN R. KOT 10-12-67 ISSUE 2 5270 Delete Mater-Ial Not Refer-Ing to R.F. Suppression FRK. CLS LOCATE (1) 0.01uf CAPACITOR ON THE 242B AMPLIFIER APPROXIMATELY AS SHOWN. (C12) PLACE A"MODIFIED FOR RF" LABLE NEAR THE CODE STAMP. 2 8-991796 SH2 242 AMPLIFIER MODIFICATION N.T.S. 8-99/796 35 SHEET2 0







8-991799 10-12-67 ISSUE 2 5-27-6 Delete Mater-Ial Not Refer ing to R.F. Suppression 4.P.K. 1015 166 694 A & 694 8 SUBSET ADIFICAT 35 B- 99/795 3

