#### **Errata**

Title & Document Type: 8620B Sweep Oscillator Service Note

**Manual Part Number: 8620B-3** 

**Revision Date: September 1974** 

#### **About this Manual**

We've added this manual to the Agilent website in an effort to help you support your product. This manual provides the best information we could find. It may be incomplete or contain dated information, and the scan quality may not be ideal. If we find a better copy in the future, we will add it to the Agilent website.

#### **HP References in this Manual**

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## SERVICENOTE

Supersedes:

NONE

# HP MODEL 8620B SWEEP OSCILLATOR All Serial Numbers

## **MODIFICATION REQUIRED FOR 86290A**

2.0 — 18.0 GHz Plug-In Compatibility

All 8620B Sweep Oscillator mainframes must be modified to be compatible with the 86290A 2.0 to 18.0 GHz Plug-In.

The modification replaces the A1 Sweep Oscillator board assembly with HP Part Number 08620-60095. The new A1 assembly has a sweep inhibit function that is necessary for the 86290A, when used in the sequential sweep mode. If a 86290A is installed in an unmodified 8620B, the 2.0 to 18.0 GHz annunciator light will blink when band, 4 Sequential Sweep is selected.

Additional modification to the 8620B may be necessary depending on the serial prefix. The table to the right should be used to determine which modifications are required.

1	The state of the s	
86	20B Serial Prefix	Modification Required
8620B	1135A and below	I, II and III
8620B 8620B	1309A and below All	III and III

A Modification Kit, HP Part Number 08620-60100, contains all the parts and instructions necessary for these modifications. The kit is available through your nearest HP Sales Office.

	PARTS INCLUDED IN MODIFICATION KIT 08620-60100	
Qty.	Description	HP Part No.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A1 Sweep Generator Board  Wire Insulated, Brown 5 inches (127 mm) 5½ inches (133 mm) Wire, Insulated, Black 1¼ inches (45 mm) Wire Insulated, White/Red/Violet 4 inches (102 mm) 2.0-6.2 GHz Dial Scale 6.0-12.4 GHz Dial Scale 12.0-18.0 GHz Dial Scale 2.0-18.0 GHz Dial Scale Service Note, 8620B-3	08620-60095 8150-0448 8150-0447 8150-0485 86290-00018 86290-00019 86290-00032 86290-00033

9/74-45



for more information, call your local HP Sales Office or East (201) 265-5000 
Midwest (312) 677-0400 
South (404) 436-6181 
West (213) 
877-1281. Or, write: Hewlett-Packard, 1501 Page Mill Road, Palo Alto, California 94304. In Europe, Post Office Box 85, CH-1217 Meyrin 2, Geneve, Switzerland, In Japan, Yokogawa-Hewlett-Packard, 1-59-1, Yoyogi, Shibuya-Ku, Tokyo, 151.

## Modification I for 8620B Serial Prefix 1135 and Below

This modification changes the wiring on the rearpanel assembly to be compatible with the 08620-60095 Al Sweep Board supplied with this Modification Kit. After this modification negative blanking is available at J9 Connector and the Penlift Signal is available at the Z-axis connector J5.

#### Procedure for Modification 1:

- 1. Disconnect 8620B from the power line.
- 2. Remove the top cover.

- Remove R8 1960 Ohm and R9 1100 Ohm resistors from the Z-axis J5 output connector.
- 4. Cut the white, red, green (925) wire from the Penlift output J8.
- 5. Connect the (925) wire just removed to the Z-axis output J5.
- 6. Modify the wiring to the blanking switch S-8 on the rear panel as described below. Figure 1 shows the pin numbering of S-8. S-8 is the three-position slide switch on the rear panel located nearest the fan.

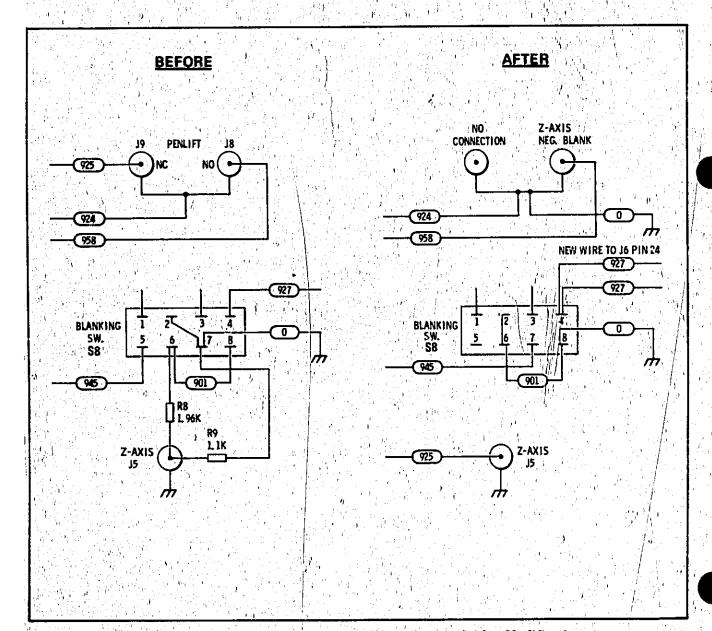


Figure 1. Blanking Switch Wiring Diagram Before And After Modification

- A. Cut the white/yellow/green (945) wire from pin 5.
- B. Remove R8 1960 Ohm and R9 1100 Ohm resistors from pins 6 and 7.
- C. Install a short bare wire jumper from Pin 2 to Pin 6. The end of the resistor just removed can be used.
- D. Remove the bare wire jumper between pins 2 and 7.
- E. Remove the black (0) wire from pin 7.
- r. Connect the black wire just removed to pin 8.
- G. Connect the (945) wire removed in Step A to pin 7.
- H. Connect a black (0) wire from the junction of J8, J9, and the white/red/yellow (924) wire to chassis ground, the solder lug under the nut securing for J8.
- I. Connect one end of the white/red/violet (927) wire from the Modification Kit to Pin 4.
- 7. The other end of the (927) wire from the Modification Kit connects to the RF section interface connector J6, Pin 24. To gain access to J6, the two screws securing it to the rear panel should be removed. The added wire should be routed with the main wiring harness.
- 8. Do Modification II.

## Modification II for 8620B Prefix 1309A and Below

This modification adds two jumpers to the A11 Master Board and removes three unused components from the A7 Operations Control Board Assembly.

#### Procedure for Modification II:

1. Disconnect 8620B from the power line.

- 2. Remove the bottom cover.
- 3. Install one of the brown wires from the Modification Kit between XA1, Pin D, and XA7, Pin P. (See Figure 2 for proper routing.)
- 4. Install the second brown wire between XA1, Pin M, and XA7, Pin 7.
- 5. Replace the bottom cover.
- 6. Remove the top cover.

 $\mathbf{y}^{t}$ 

- 7. Remove the A7 Operations Control Board Assembly.
- 8. Remove the following components from the A7 board Q7, R20, and R21. See Figure 3 for component location.
- 9. Do Modification III.

## Modification III for 8620B, All Serials

This modification replaces the A1 Sweep Board Assembly. The new Sweep Board (HP Part Number 08620-60095) has a sweep inhibit function.

## Procedure for Modification III:

- 1. Disconnect 8620B from the power line.
- 2. Remove top cover.
- 3. Remove and discard the A1 Sweep Board.
- 4. Before installing the A1 Sweep Board from the Modification Kit, ensure that the jumper wires are in the correct position for the particular mainframe being modified. See Figure 4 for correct jumper position.
- 5. After installing the A1 Board, it should be adjusted per the adjustment section of this Service Note.
- 6. Replace the top cover on the 8620B.
- 7. Correct your Operating and Service Manual by adding the attached schematic, parts list, and adjustment procedure for the 08620-60095 Sweep Board.

Model 8620B-3

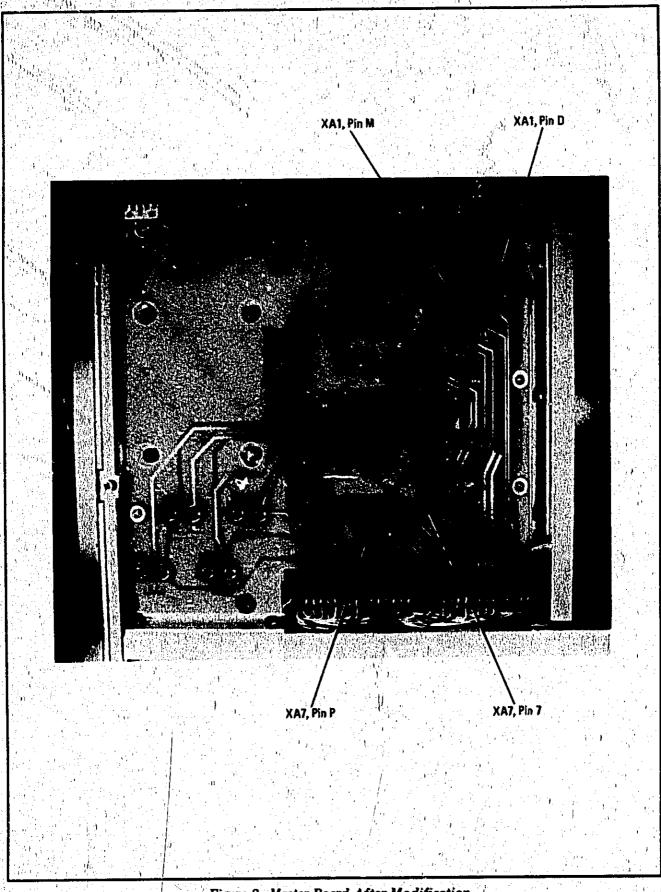


Figure 2. Master Board After Modification

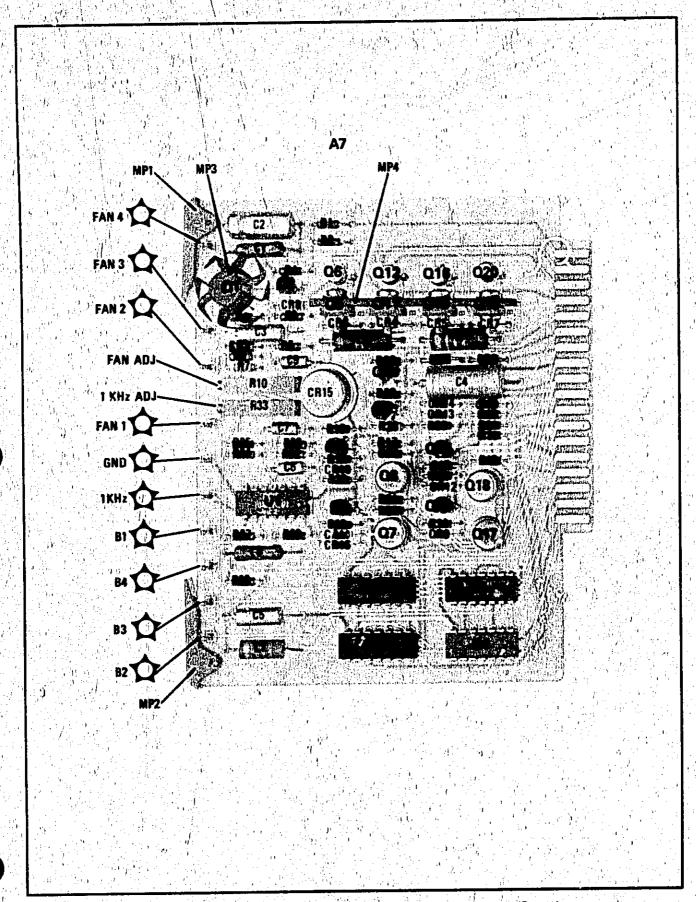


Figure 3. A7 Operations Control Board Assembly Component Locations

Page 6 Model 8620B-3

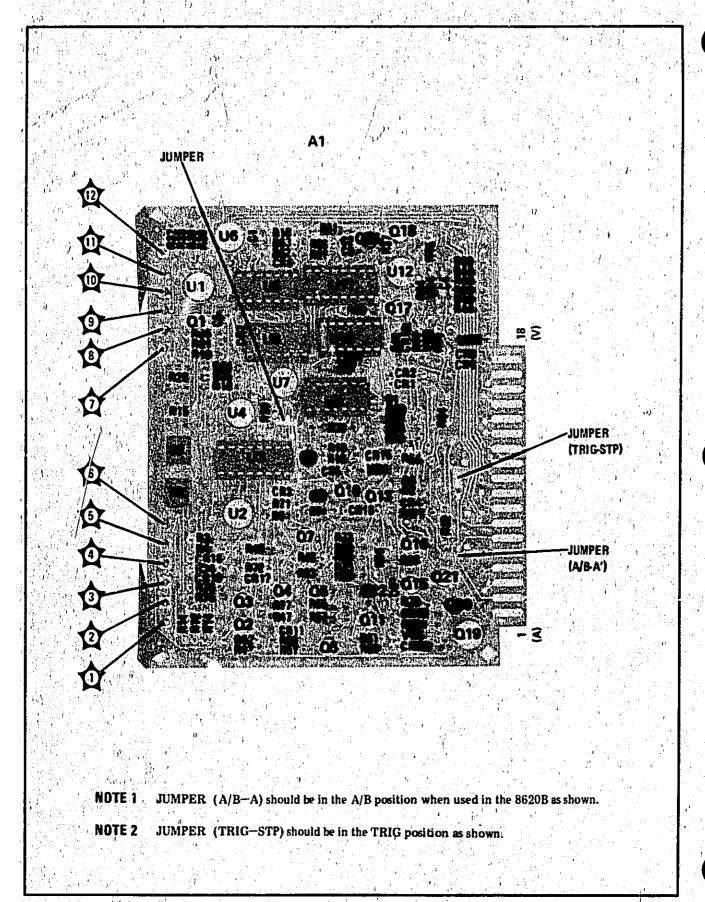


Figure 4. A1 Sweep Generator Assembly, Jumper Position

Model 8620B-3

Page '

## MANUAL CHANGES FOR MODIFICATION II

Page 5-5/5-6:

Add the following after paragraph 5-14:

1 5	Reference lesignation	Adjustment Paragraph	Name on Board	Function Adjusted
	A1R9 A1R8 A1R28 A1R15	5-15 5-16 5-15 5-15	SWP  RET  OFFFSET  RANGE	Adjusts sweep time  Adjust sweep return time  Adjusts symmetry of sweep time to sweep return time  Adjusts minimum sweep time at slowest sweep-speed setting of TIME-SECONDS vernier.

Page 5-6

Add Figure 5-3 in this SERVICE NOTE.

Page 5-5:

Add the following Adjustment Procedure after Paragraph 5-14:

## 5-15. SWEEP GENERATOR BOARD ADJUSTMENTS

### REFERENCE:

Service Sheet 1, SWEEP GENERATOR ASSEMBLY.

## DESCRIPTION:

Set correct sweep time, sweep return time, symmetry, and range of the negative blanking signal.

## **EQUIPMENT:**

## PROCEDURE:

- a. Connect oscilloscope VERTICAL input to A1TP9 (10:1 probe), and ground lead to
- b. Connect oscilloscope EXT TRIGGER input to A1TP9 (1:1 probe), and set oscilloscope trigger controls to "EXT," "NORM," and "(—)" SLOPE.
- c. Set 8620B function switch S2 to S/S position.
- d. Set 8620B "TRIGGER" switch to "AUTO."
- e. Set 8620B "TIME" switch to "FAST," and turn sweep time vernier fully clockwise.

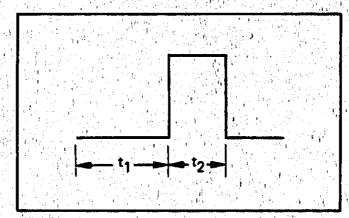


Figure 5-4. Oscilloscope Display of Waveform Symmetry

- f. Adjust oscilloscope for display as shown in Figure 5-4.
- g. Set A1R15 RANGE and A1R28 OFFSET controls to center of range.
- h. 9 Adjust A1R9 SWP control for  $t_1 = 10.8$  msec. Adjust A1R8 RET control for  $t_2 = 5.4$  msec.
- i. Set 8620B TIME-SECONDS vernier fully counterclockwise. Connect a 19.6K 1% resistor between A1TP4 and A1TP12.
- j. Adjust oscilloscope sweep time so t<sub>1</sub> occupies 6.5 divisions of the display. Adjust A1R28 OFFSET control so t<sub>2</sub> occupies 1.0 division of the display. Symmetry is now 6.5:1.
- k. Remove 19.6K resistor. With osiclloscope sweep time in a calibrated mode, adjust A1R15 RANGE control for t<sub>1</sub> = 648 msec.
- l. Connect 19.6K resistor between A1TP4 and A1TP12. Verify symmetry between 6.5:0.7 and 6.5:1.3.
- m. Set 8620B sweep time vernier fully clockwise. t, should be between 32.5 ms and 37.5 ms (19.6K resistor still, connected); if not, select a new value between 51.1K Ohm and 110K Ohm for A1R2.

## Page 6-4, Table 6-3:

Replace Table 6-3 A1 Sweep Generator Assy with Table 6-3 A1 Sweep Generator Assy in this SERVICE NOTE.

#### Page 8-12:

Add Figure 8-11A (1 of 3) in this SERVICE NOTE.

### Page 8-16, Figure 8-13:

Replace Figure 8-13 with Figure 8-13 in this SERVICE NOTE:

## Page 8-17, Figure 8-14:

Replace Figure 8-14 with Figure 8-14A (1 of 2) in this SERVICE NOTE.

## Page 8-17, Figure 8-14:

Add Figure 8-14B (2 of 2) in this SERVICE NOTE.

#### Page 8-31, Figure 8-28:

Replace Figure 8-28 with Figure 8-28A in this SERVICE NOTE.

## Page 8-31, Figure 8-28:

Add Figure 8-28B in this SERVICE NOTE.

Page 9

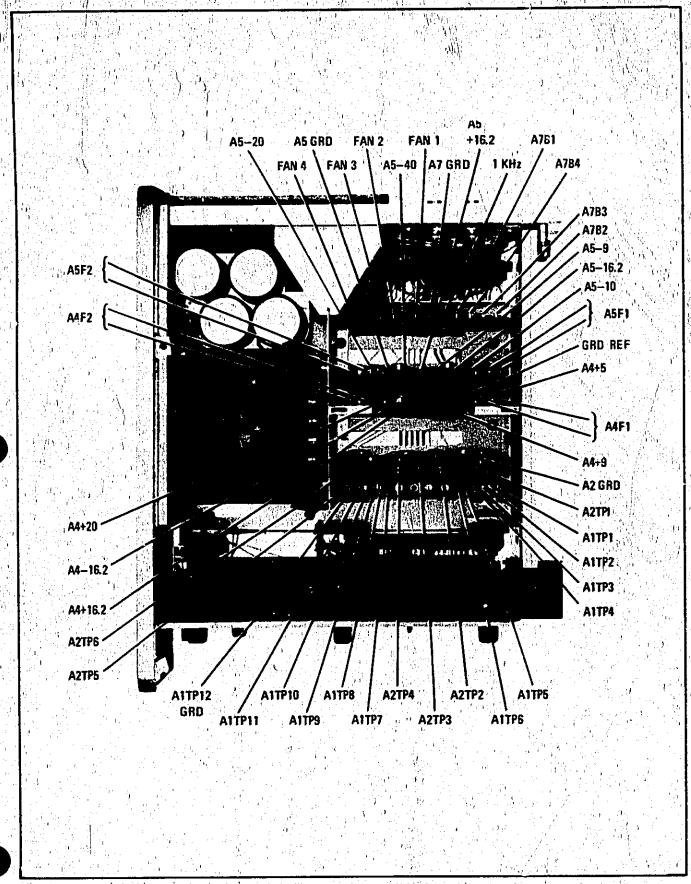


Figure 5-3. Location of Test Points

Table 6-3. Repluceable Parts (1 of 3)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
	C4620-60035 8	$A_{i} A_{j}$	المحدد الملاق	28480	0#620-60095
Alci Alci Alci	0190-0215 0190-9315 0190-3814	2	CAPACITUM-FRU IUUUPH 0-206 IUUMVBC LEM CAPACITUM-FRU 2004F 0-206 IUUMVBC LEM CAPACITUM-FRU 2600F 0-206 ILCAVOC EEM	\$4480 \$4480	ULOC-3079 ULOC-0572 ULOC-0572
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	1554-0404 1554-0404		THANGESTUR NPN 51 FU-14 PURSOUND 100 MG 100	28+30 28+30	1054-U4U4 1854-C4G4 185-0050
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A1210	349a-72a0		HESISTUR TUP 28 .00% F TUBULAR	24546	Ca=1/8-Tu=1002-G
Almid Almid	7078-0102 7078-0102 7078-0102	,	RESISTUR IR -12 -125m F TUBULAR RESISTUR IN -12 -125m F TUBULAR RESISTUR I-45m 26 -05m F Tubular	19701 19701 29546	MF4C1/B-T9-1Jul-b MF4C1/B-T9-1J01-b C3-1/B-T0-19o1-b
Almid Almid	0081-1002	3	HESTSTUN TOW ST "52PM CT TUBULAN	03131	CB1C65
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Reference Designation	HP Part Number	Qty	able 6-3. Replaceable Parts (2 of 3)  Description	Mfr Code	Mfr Part Number
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A1H34 A1H34 A1H33 A1H35 A1H35	0.683-10p5 0.940-7a.35 0.694-7a.03 0.694-7a.60 0.694-7a.00		RESISTUR TO SELECT EC TUBULAR RESISTUR TOO DITA 26 COSE F TUBULAR RESISTUR TOX 22 TOSE F TUBULAR RESISTUR STATUR 26 EKZSE F TUBULAR RESISTUR STATUR 26 EKZSE F TUBULAR RESISTUR STATUR 26 ELISE F TUBULAR	01121 24546 24546 24546	L 2 C65 L 3 - 176 - 10 - 1010 - 10 C 3 - 178 - 10 - 1010 - 0 C 3 - 178 - 100 - 1041 - 0 C 3 - 178 - 100 - 112 - 1
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Almon Almid Almid Almid Almid Almid Almid	0757-Uzud 0694-7244 0694-7254 0594-7264		RESISTUR BOUN AS SESSO FIGURAN RESISTUR BOUNT 25 SESSO FIDOURAN RESISTUR BOUNT 25 SESSO FIDOURAN RESISTUR 100 N 25 SESSO FIDOURAN RESISTURE N 25 SESSO FIDOURAN R 25	24546 24546 24546 24546 24546	C3-1/a-10-1472-0 C3-1/a-10-1472-0 C3-1/a-10-1472-0 C3-1/a-10-1472-0 MF4CE/B-10-4442-0
AIMTO AIMTU AIMTT AIMTB AIMTB	Jubu-7264 Jubu-7256 Juba-7253 Juba-7235 Juba-7253		HESISTUM 14.78 26 JUSM B TUBULAM  MESISTUM SUBIR 22 JUSM B TUBULAM  MESISTUM SUBIR 22 JUSM F TUBULAM  MESISTUM SUBIR 26 JUSM F TUBULAM	24546 24546 24546 24546 24546	C3-1/8-10-bull-bull C3-1/8-10-5111-bull-bull-bull-bull-bull-bull-bull-b
Albel Alle Alle Alue Alue	0090-7270 0090-7293 1313-0091 1920-0092 1920-0070	1	MESISTIM BOOM RE NOON FOUNDAM MESISTIM TOWN 21 NOON FOUNDAM IC LIN AMPLIFIE IL DOTE SATE TO N FEEP-FEEP	24546 24546 27014 04713 01295	C1-1/n-Tù-4b42-b L1-1/8-TQ-1/b1-b Lhut42th pi7812tP Sh7476M
ALUS	1320-0507 1320-0102 1320-0611 1300-0547	1 2,	SIGNETE ELECT TO 18-CLAT DIP SIGNETH STOCKET, ELECT TO 16-CONT DIP SIGNETERM	04713 06776	11 (A-40)-536 48312H PCE17P 11(N)155-53W

Table 6-3. Replaceable Parts (3 of 3)

The reality was the reality of the second of	
	25, 10030-517 27, 10030-517 27, 10030-89 27, 10030-89 27, 10030-5,

Table 6-4. A Code List of Manufacturers

MFR NO	MANUFACTURER NAME		Appless	CODE	
00736 6/1121 1/1295 1/1295 1/12735 1/12735 1/12735 1/12735 1/12735	GETTIGENORGE MEG CO INC./ ALLEN ARADLETICO. TEXAS INSTR INC SEMICOND CMPA RCA CORP SOLID STATE DIV./ MOTOROLA SEMICONDUCTOR PRODUC ROBINSAN NUGENDING	コークスクレーション こうきゅうご	SPRING MILLS MILWAUKEE WI DALLAS TX SOMMERVILLE N PHOENIX AZ HEW ALBANY IN	53217 75231 08876 85008	
16290 19701 24546 27014 3 28480 30983 10	Wichming W. MK ELEC CHPMT DIV MEPCO/ELECTRA CORP CORMING GLASS WORKS ( ) NATIONAL WEMICONDUCTOR/CORP HEMLETT-BACKARD CO COMPORATE MEPCO/ELECTRA CORP MEPCO/ELECTRA CORP MEPCO/ELECT	но)	MALEIGH NC MINERAL WELLS BHADFORD PA SANTA CLARA C PALO ALTO CA SAN DIEGO CA	1670) 95051 94304 92121	
V,662B9	SPRAGUE ELECTRIC CO		NORTH ADAMS M	01247	

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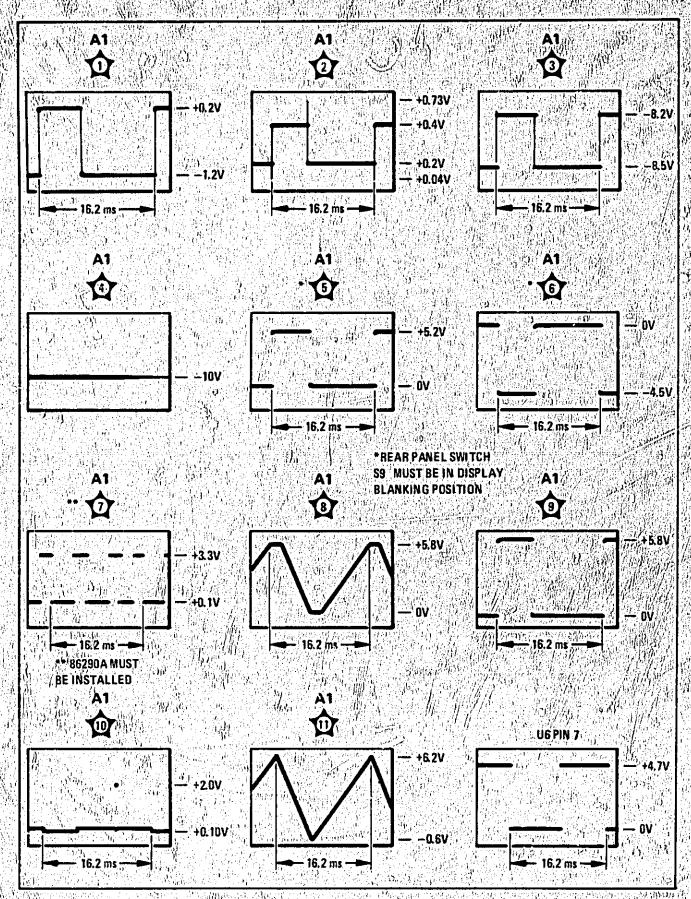
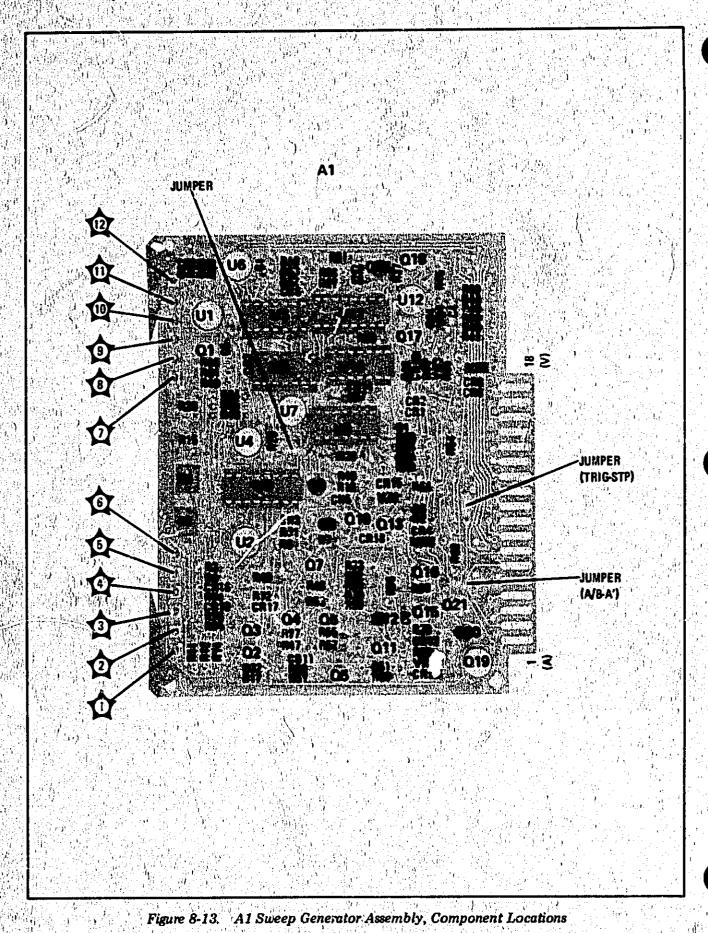


Figure 8-11A Troubleshooting Block Diagram (1 of 3)

Model 8620B-



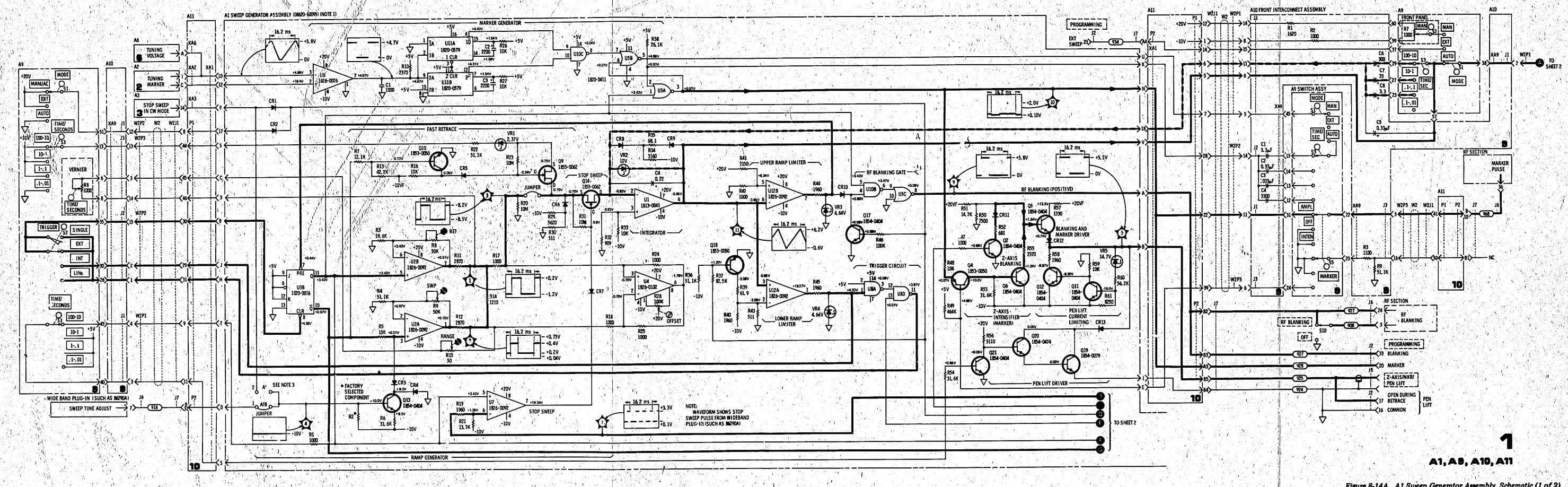
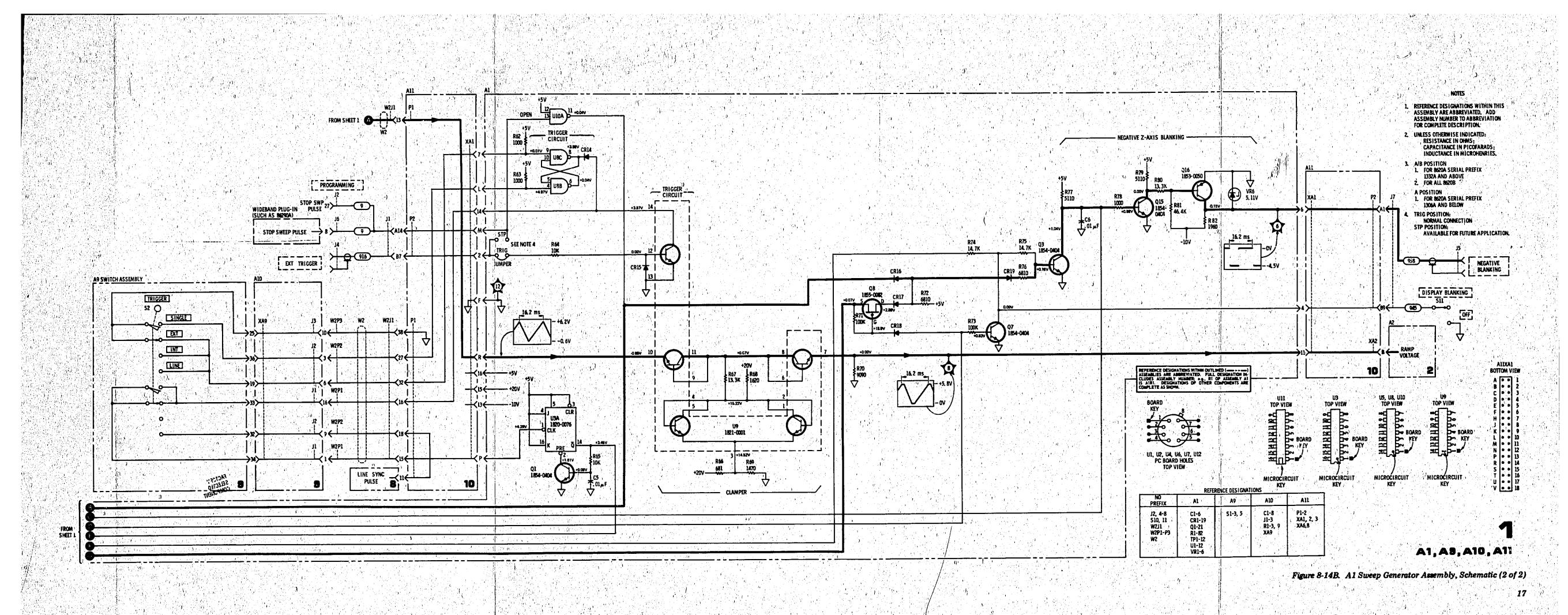


Figure 8-14A. A1 Sweep Generator Assembly, Schematic (1 of 2)



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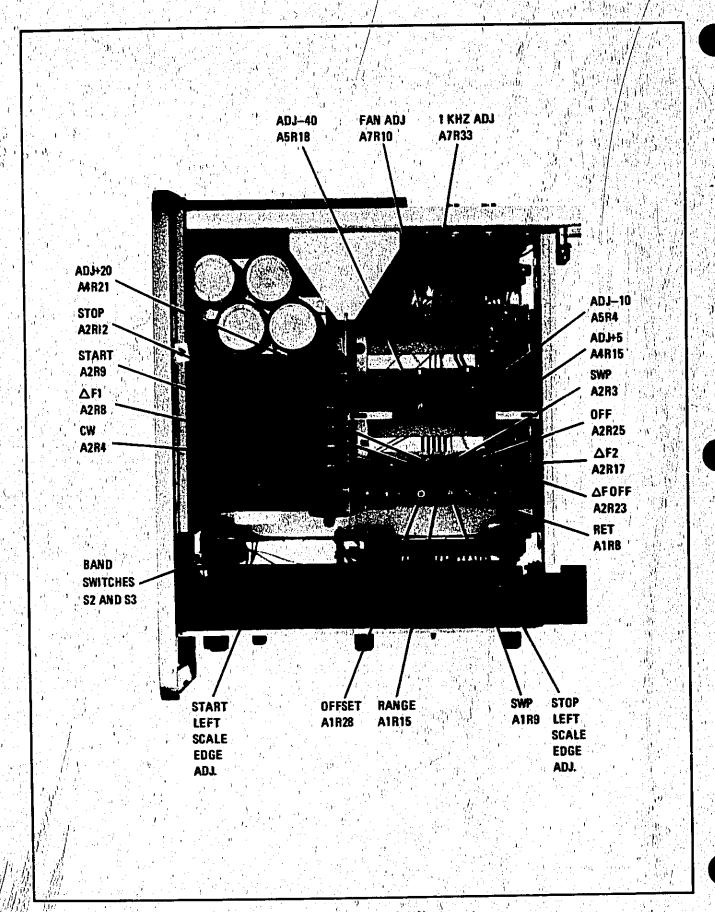


Figure 28A. Location of Adjustments

Model 8620B—3

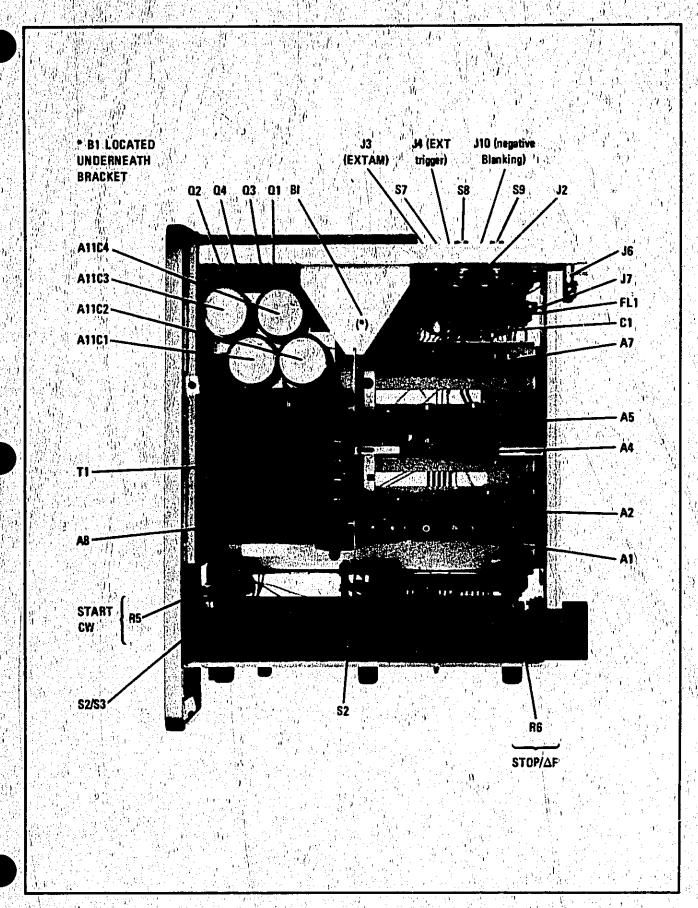


Figure 8-28B. Top View, Major Assembly and Component Locations