8563A-15

S	Е	R	V	I C	E	Ν	0	Т
						SUPERSEDE	S: None	
8563	BA Po	rtable	Spectrun	n Analyz	er			
Seria	l Numb	ers: 000	0A00000 / 3	3133A00934	4			
Dupli	icate Se	rvice No	tes:					
8560A	<b>A-1</b> 8							
8561E	3-20							
85624	<b>A-63</b>							
8562E	<b>B-6</b> 1							
8563 <i>A</i>	A-15							
Elim	inatin	g 50KH	z to 150K	(Hz sideb	ands in	instruments	with TC	xo
<b>Parts</b> <b>P/N</b> 1901-	Requir		<b>Descripti</b> Schottky	ion	ands in	Qty. 1	with TC	XO
Parts P/N	Requir		Descripti	ion	ands in	Qty.	with TC	XO
<b>Parts</b> <b>P/N</b> 1901-	<b>Requir</b> 0539 0096		<b>Descripti</b> Schottky	ion	ands in	Qty. 1	with TC	XO
Parts P/N 1901- 0890- Situar Sideb nal ca They	Requir 0539 0096 tion: ands as in occur occur w	red: high as - in instru rhen a str	Descripti Schottky Sleeve 50dBc and ments with ong externa	on Diode ranging from a Temperat I 10MHz re	n 50KHz ure Contro ference is	Qty. 1	the displ	ayed sig CXO).
Parts P/N 1901- 0890- Situar Sideb nal ca They	Requir 0539 0096 tion: ands as in occur occur w	red: high as - in instru rhen a str	Descripti Schottky Sleeve 50dBc and ments with ong externa	on Diode ranging from a Temperat I 10MHz re	n 50KHz ure Contro ference is	Qty. 1 1/4 inch to 150 KHz from olled Crystal Osci applied and are o	the displ illator (TC caused by	ayed sig- CXO).

## ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:								
MODIFICATION RECOMMENDED								
ACTION CATEGORY:	<ul> <li>IMMEDIATELY</li> <li>ON SPECIFIED FAILURE</li> <li>AGREEABLE TIME</li> </ul>	STANDARDS: Labor 0.5 Hour						
LOCATION CATEGORY:	CUSTOMER INSTALLABLE	SERVICE I RETURN USED RETURN INVENTORY: SCRAP PARTS: SCRAP SEE TEXT SEE TEXT						
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	AGILENT RESPONSIBLE UNTIL: 01 October 1993						
AUTHOR: GPB	ENTITY: 5300	ADDITIONAL INFORMATION:						

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## **Solution/Action:**

A logic low must be guaranteed at the input of A15U303C when the instrument is used in External Reference mode to prevent oscillation.

To accomplish this a Schottky diode needs to be installed with its anode to pin 5 of A15U303 and its cathode to the collector of A15Q301. Open the instrument and fold out the A15 assembly as described in the Service manual. Remove the top and bottom reference shields. The resistor will need to lay flat against the reverse side of the board to allow room for the shield. Trim the leads so that the anode can be soldered to the end of A15Q301. (The collector lead is nearest A15R303 and R304.) Slip the insulation sleeving over the exposed parts of the leads, leaving enough room to make the solder connections. Solder the resistor leads in place.