

SERVICE BULLETIN

MODEL: TS-930 S	NO.: 0045	DATE:																																		
VON/FROM/DE: TRIO-KENWOOD COMMUNICATIONS Division of TRIO KENWOOD ELECTRONICS GMBH		D	M	Y																																
		21	10	83																																
SUBJECT: Digital Unit through-plated hole defects and their symptoms																																				
CONTENTS: The unit shows symptoms as listed below, when any of the 56 Digital Unit through-plated holes are open. These examples were compiled by Mr. Negishi of the Kanto service center. Make full use of the Material as a technical reference for repair.																																				
<table><thead><tr><th>Through-hole No.</th><th>Symptom</th></tr></thead><tbody><tr><td>1</td><td>(GND)</td></tr><tr><td>2</td><td>(GND)</td></tr><tr><td>3</td><td>Transmit mode not entered.</td></tr><tr><td>4</td><td>N/C</td></tr><tr><td>5</td><td>No display. However, pressing the BAND switch operates the BAND changeover relay.</td></tr><tr><td>6</td><td>Transmit mode not entered.</td></tr><tr><td>7</td><td>N/C</td></tr><tr><td>8</td><td>RIT operates in transmit mode.</td></tr><tr><td>9</td><td>Continuous tone and no display.</td></tr><tr><td>10</td><td>RIT operates in transmit mode.</td></tr><tr><td>11</td><td>(GND)</td></tr><tr><td>12</td><td>(GND)</td></tr><tr><td>13</td><td>Continuous sound. All indications are displayed.</td></tr><tr><td>14</td><td>(GND)</td></tr><tr><td>15</td><td>(GND)</td></tr></tbody></table>					Through-hole No.	Symptom	1	(GND)	2	(GND)	3	Transmit mode not entered.	4	N/C	5	No display. However, pressing the BAND switch operates the BAND changeover relay.	6	Transmit mode not entered.	7	N/C	8	RIT operates in transmit mode.	9	Continuous tone and no display.	10	RIT operates in transmit mode.	11	(GND)	12	(GND)	13	Continuous sound. All indications are displayed.	14	(GND)	15	(GND)
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16 & 17	No display, display disappears when main dial is turned, or display appears when main dial is turned (when nothing is displayed).					
18	Turning the main dial generates an abnormal sound. The abnormal sound increases as the receive frequency is approached.					
19	No display. However, 80.888.8 .88 is displayed when connector (9) is removed.					
20	No display or 54.444.4 is displayed.					
21	36.222.2 or 14.444.4 is displayed.					
22	RIT-1.1 kHz is displayed when an odd numbered frequency is displayed.					
23	Only the 'g' segment of the display lights; "-"					
24						
25						
26	No display or only segments "egf" light. "1-"					
27 & 28	The main dial and UP and DOWN switches do not operate.					
29						
30	Only segments "g, DP" light.					
31	Many analog pointers light. The brightness of the pointers varies widely.					
32	All 'g' segments light. "----- "					
33	The "DP" segment remains continuously lit.					
34	Analog values from 0 to 700 are displayed, but values from 700 to 1000 are not.					
35	Segments "b,g" only are not displayed. Some of the analog pointers do not light.					
36						
37	No display because UL.					

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38	No display, continuous tone.			
39	Three digits of values are not displayed			
40	ex. 14.XXX.5			
41				
42				
43				
44				
45				
46				
47				
48	(The main dial does not operate.) 14.000.0 is displayed. Turning on the RIT switch displays 14.100.00.			
49	Continuous tone. Display is locked, RIT is turned ON and 14.001.4 is continuously displayed. Transmission in no possible.			
50	Frequency varies.			
51	As if scanning were being performed. Transmission is possible.			
52				
53				
54				
55				
56				

TS-930S PC BOARD VIEW

DIGITAL UNIT (X54-1670-00) Component side view

