

S E R V I C E N O T E

SUPERSEDES: None

8664A Synthesized Signal Generator

Serial Numbers: 3203A00254/3203A00275 (Refer to specific serial numbers in text)

Potential RPP Assembly Failures

Duplicate Service Notes: 8665A-04

Parts Required: 08665-80100, RPP Assembly

Situation:

Instruments with specific serial numbers noted below may have defective RPP (Reverse Power Protection) assemblies. The RPP assembly protects the RF output circuitry from damage due to externally applied power. Failure symptoms include no RF output or a low output level (relative to front-panel settings).

The RPP assembly consists of several components, one of which is reed relay encased in a glass tube with teflon plugs at both ends. An elastomer envelope is used to secure coil windings around the glass tube and to provide consistent electrical characteristics.

The RPP fails when the elastomer expands beyond its nominal size and contacts the external connections of the reed relay. This causes a low impedance RF path to ground.

Continued

DATE: 23 April 1993

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:					
MODIFICATION RECOMMENDED					
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input checked="" type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS:	Labor 2.5 hrs		
LOCATION CATEGORY:	<input type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> SERVICE CENTER	SERVICE INVENTORY:	<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT	USED PARTS:	<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE		RESPONSIBLE UNTIL: 01 June 1995		
AUTHOR: LHL	ENTITY: 1000	ADDITIONAL INFORMATION:			

NOTE:BILLINGS WILL ONLY BE ACCEPTED FOR INSTRUMENTS WITH SERIAL NUMBERS LISTED BELOW. INSTRUMENTS WITH SERIAL NUMBERS NOT LISTED UTILIZE THE REDESIGNED RPP ASSEMBLY AND DO NOT REQUIRE MODIFICATION.

Affected Serial Numbers:

Standard Instruments

P/N 08664-61003, RF/RPP Assy

3203A00254
3203A00257
3203A00258
3203A00259
3203A00260
3203A00261
3203A00262
3203A00263
3203A00264
3203A00265
3203A00266
3203A00268
3203A00271
3203A00272
3203A00273

Instruments with Option 008 (Pulse Modulation)

P/N 08664-61005, RF/RPP Assy

3203A00256
3203A00267
3203A00274
3203A00275

Solution/Action:

1. Remove the original RPP assembly and replace it with the part number listed above.
Refer to Figure 1 for assembly and component location.
2. Run the internal diagnostics after replacing the RPP assembly.
3. Perform RF Level Accuracy Performance Test to insure that the instrument meets specifications.

