

P.C. 09-15824

SUPERSEDES
44001-90001
P-03570-69800-1

-hp- PART NUMBER 03570-69800

SERVICE KIT FOR 3570A NETWORK ANALYZER

Serial Numbers: All

I. INTRODUCTION.

The 03570-69800 Service Kit was designed to aid in troubleshooting the 3570A Network Analyzer. The Service Kit consists of twelve pretested PC Assemblies which may be substituted for PC Assemblies in a malfunctioning instrument. This substitution method is used to identify defective circuit boards thereby reducing bench and field repair times.

II. KIT APPLICATIONS.

The 3570A is comprised of an analog section and a digital section. The analog section requires bench repair and calibration, but the digital section can be serviced in the field on a board replacement basis. The Service Kit contains only those boards that are used to troubleshoot the digital section.

III. TROUBLESHOOTING.

Instrument power should be turned off before boards are removed or replaced. Exercise care when connecting or disconnecting cable plugs to digital board receptacles. Inspect plugs for bent or broken pins. Kit boards should be checked in a known good instrument before they are used for troubleshooting.

When using the Service Kit, the half-split troubleshooting technique is recommended. Refer to Parts List (Section IV), Service Kit Diagram (Figure 1), and Circuit Board Locator (Figure 2) for circuit board identification.

The Half-Split Troubleshooting Technique.

- a. Install all twelve Service Kit boards in place of the original boards.

LMB/kkz/WM

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b. Turn 3570A power ON. Check for original trouble symptoms.

1. If problem remains, the 3570A will require bench repair and calibration.

2. If problem disappears, continue with next step. (See example problem and solution below.)

c. Turn 3570A power OFF. Replace half of the substituted Service Kit boards with original boards.

d. Turn 3570A power ON. Did the trouble symptoms reappear?

1. NO - Go to step c.

2. YES - Go to step e.

e. Turn 3570A power OFF. Replace half of the original boards with Service Kit boards.

f. Go to step d.

Example Problem. Problem in board A32. Follow steps a through f. Note that each time step d is encountered the area of problem isolation is reduced by one half. Apply steps c and e to this new area of problem isolation.*

IV. PARTS LIST.

Replacement PC Assemblies and component parts for circuit boards are available through the local -hp- Sales and Service Office.

PC Assembly part numbers are listed in Table 1, circuit board components are listed in the Replaceable Parts section of the Operating and Service Manual.

Step	Board Designators												Problem	
	A25	A26	A27	A28	A29	A30	A31	A32	A33	A34	A35	A36	Yes	No
a.	K	K	K	K	K	K	K	K	K	K	K	K		X
c. & d.	0	0	0	0	0	0	K	K	K	K	K	K		X
c. & d.	0	0	0	0	0	0	0	0	0	K	K	K	X	
e. & d.	0	0	0	0	0	0	K	K	0	K	K	K		X
c. & d.	0	0	0	0	0	0	0	K	0	K	K	K		X

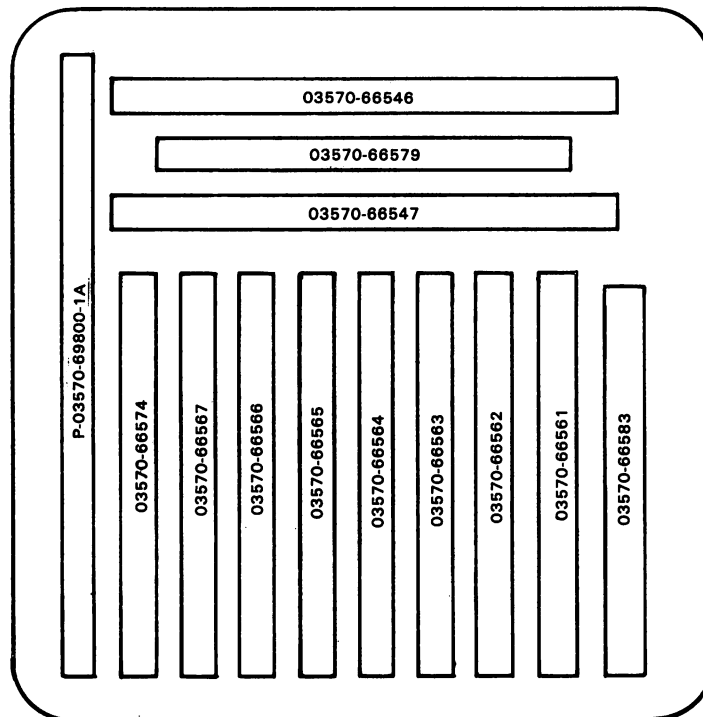
Problem Board Found

K = Kit Boards
O = Original Boards

*Shaded Section Indicates Area of Problem Isolation.

Table 1.

Reference Designator	Description	-hp- Part No.	Qty.
A25	Analog to Digital Control	03570-66546	1
A26	A - Register	03570-66547	1
A27	Timing	03570-66561	1
A28	ROM Control I	03570-66562	1
A29	ROM Control II	03570-66563	1
A30	Delay/L.O.	03570-66564	1
A31	ALU - Memory	03570-66565	1
A32	Clock	03570-66566	1
A33	Data - Input	03570-66567	1
A34B	Isolator	03570-66579	1
A35	BI - Dec Register	03570-66574	1
A36	ASCII	03570-66583	1
---	Carrying Case Assembly	03570-64502	1
---	Part Note	P-03570-69800-1A	1

**Figure 1. Service Kit Diagram.**

