SERVICE BULLETIN
No. 92-005

- ☐ **Optional**
- ☐ **Recommended**
- ☑ **Mandatory**

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System Supervisor Unit (SSU) Upgrade

DATE: 02/28/92
MODEL: System Supervisor
REVISION: All
SERIAL NO: All
SOFTWARE: All

DESCRIPTION:

The following modification must be performed to ensure that the Time Code Generators remain locked to the reference machine time code. All System Supervisor Units will not have exhibited this problem.

REQUIRED TOOLS:

Static safe workstation
Grounding wrist strap
Soldering station
Ohmmeter
Phillips screwdriver
Exacto knife
IC extractor/inserter

REQUIRED PARTS:

74HC14 (TimeLine P/N 24D025)
Insulated 28 AWG jumper wire

PROCEDURE:

1. Turn off the System Supervisor Unit (SSU). Remove all cables from the SSU rear panel. Place the SSU on a static safe workstation.

System Supervisor Unit (SSU) Upgrade, cont.

2. With the Phillips screwdriver remove the eight (8) screws from the SSU top cover. Remove the top cover.

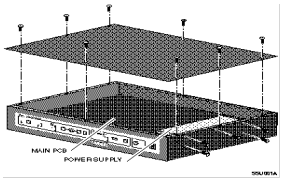

Figure 1. Remove Top Cover and Power Supply

3. Remove the five screws securing the Power Supply. Pull the Power Supply out of the chassis. It does not need to be completely disconnected.

4. On the SSU Main board close to the Power Supply remove U54 with the extractor/inserter.

5. On the component side of the board, cut the trace between U54 pin 13 and U55 as shown in Figure 2. This removes the input ground connection from a spare gate in U54. Use an Ohmmeter between pin 13 and TP9, the ground test point to check your work.

System Supervisor Unit (SSU) Upgrade, cont.

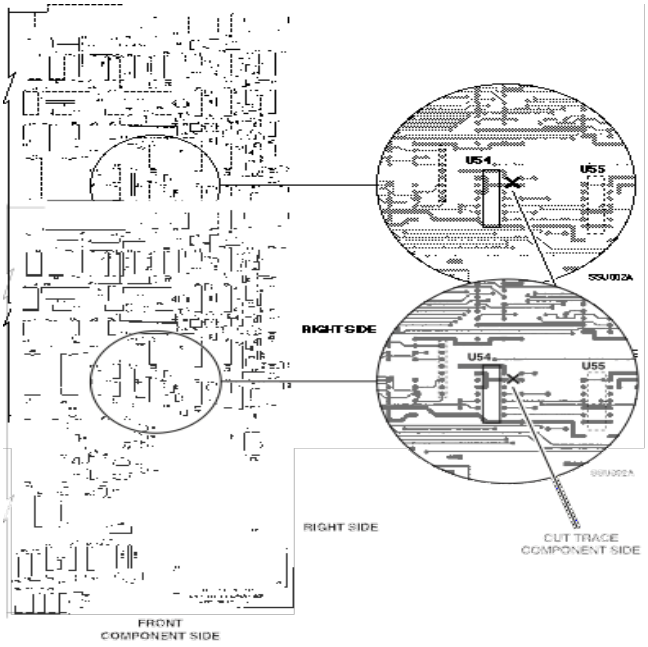

Figure 2. Component Side Trace to Cut

6. Insert the 74HC14 (TLP/N 24D025) into the U54 socket.

7. Carefully turn the SSU upside down and remove the eight screws holding the bottom cover to the chassis.

8. The solder side of the board will be exposed. Cut the trace at U55 pin 13 as shown in Figure 3.

System Supervisor Unit (SSU) Upgrade, cont.

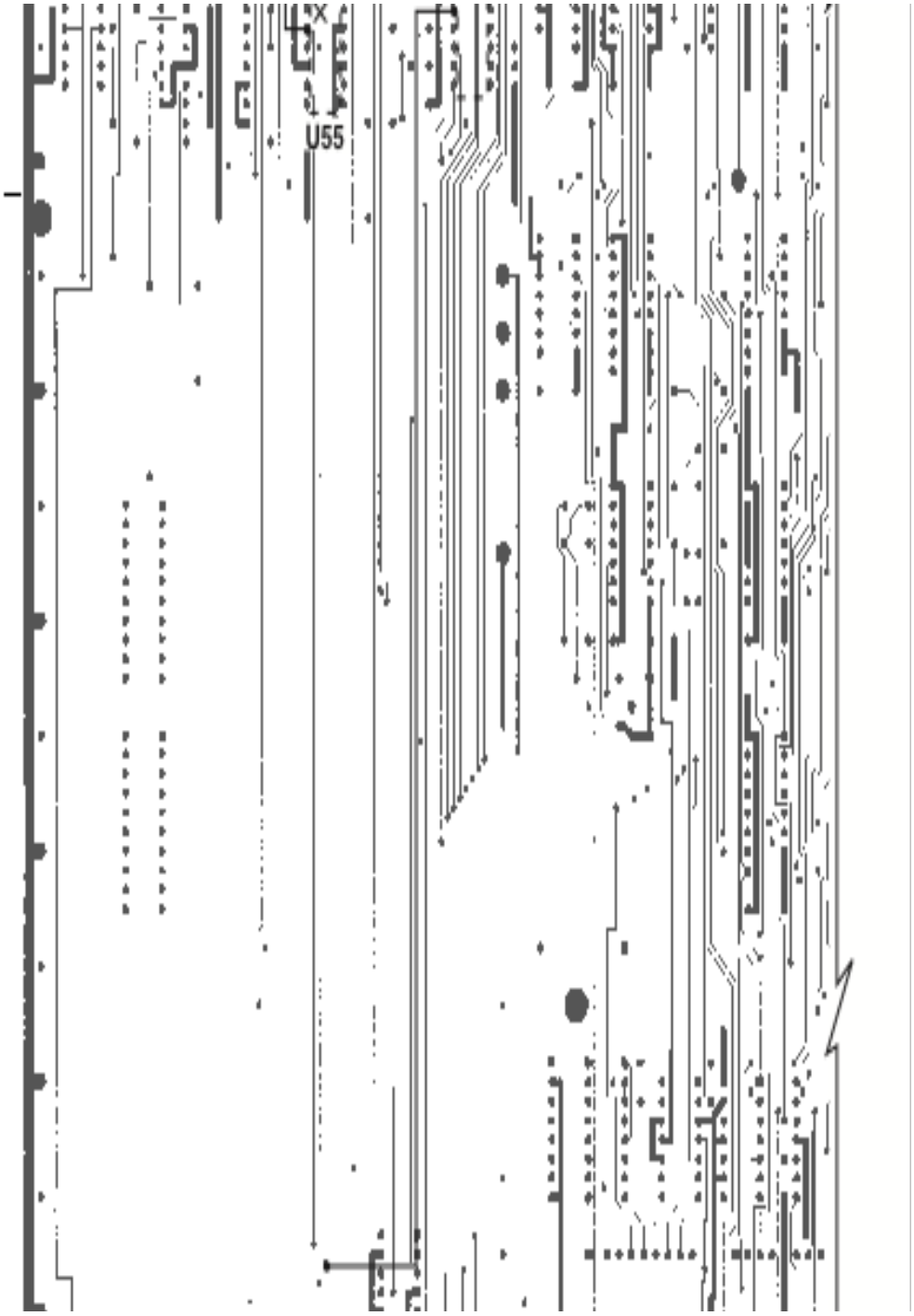

Figure 3. Solder Side Modifications

System Supervisor Unit (SSU) Upgrade, cont.

9. Solder two jumpers onto the solder side of the main board as shown in Figure 3:

   a. U54 pin 12 to the feed through hole (that was connected to U55 pin 13). The feed through is located at the 'bottom' of the board.

   b. U54, pin 13 to U55, pin 12.

10. Figure 4 summarizes the electrical changes made by this modification. Use an Ohmmeter to check your work.

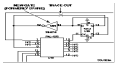

Figure 4. Modification Schematic

11. Replace the bottom cover. Insert and tighten the eight screws.

12. Turn the System Unit over and route the power cable back through the space between the main board and the side panel. Reinstall the power supply as illustrated in Figure 5. The Power Supply must be inserted at an angle, then gently worked into place.

Warning

Use firm but gentle pressure, do not accidently pinch or damage the cable.

System Supervisor Unit (SSU) Upgrade, cont.

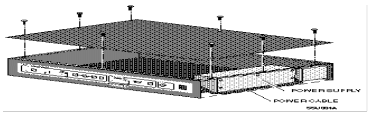

Figure 5. Cable Routing

13. Insert and tighten the five screws on the side of the SSU. Replace the top cover, insert and tighten the eight securing screws. Reconnect the cables to the SSU and it is ready for operation.