

TEMPORARY MEMORANDUM
COMMON SYSTEM MAIN INTER-CONNECT - "COSMIC"
I AND II DISTRIBUTING FRAMES

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1. GENERAL

1.1 As a result of a manufacturing process specification for the 112-Type connecting blocks, during a time period between May 15, 1982 and September 15, 1982, the ability of the insulation displacement clips to make an assured reliable connection is questionable.

1.2 The insulation displacement clip used on the 112-Type connecting block is a one-piece, "three beam" metal stamped quick clip. The 112-Type blocks using this clip can be distinguished by a blue and white checker board pattern on the block face.

1.3 The suspect defect is a small, sharp corner or burr on the entrance to the slot. Upon inserting the wire, the wire will be cut off or partially cut allowing it to break at a future date.

1.4 COSMIC I or II installation scheduled between May 1, 1982 and November 1, 1982 could possibly have some of the suspect blocks shipped to the job site.

1.4.1 The May 15, 1982 through September 15, 1982 manufacturing date of the individual suspect blocks is on the rear side of the cable leads fanning strip in the lower right-hand corner.

1.4.2 Each shipping carton containing 112-Type blocks also has a date stamped on it. However, this date may not correspond exactly to the date stamped on the individual blocks. Cartons dated within four weeks after September 15, 1982 should have the blocks checked for dates between May 15, 1982 and September 15, 1982.

1.4.3 112-Type blocks connected to 307 protectors may not have a date stamped on the block. The date stamped on the side of the 307 protector-connector is to be used. The date may be located on the right or left-hand side of the block.

2. INSTALLING EQUIPMENT

2.1 The only special tools needed are a multiple-terminal and single-terminal burnishing tools. These tools are furnished by Baltimore Works upon request.

2.1.1 Tools will be furnished by placing a telephone call to:

Mr. C. E. Tidd
Baltimore Works
CORNET: 229-7940
Commercial: (301) 563-7940

The standard package of tools consists of:

- 3 - multiple-terminal burnishing tools (103711586)
- 1 - single-terminal burnishing tool (103711578)
- 1 - set of instructions on use of tools

3. CONDITIONS AND CORRECTIVE ACTION

3.1 The suspect 112-Type connecting blocks that were manufactured within May 15, 1982 and September 15, 1982 time frame may have defective terminals. The defective conditions listed below are followed by the corrective actions to be taken by installation:

A. Condition: Blocks shipped to job site, but not mounted and still in carton.

Corrective Action: If the carton is date stamped between May 15, 1982 and October 15, 1982, open the carton, check the date stamped on the cable lead fanning strip, and:

- 1. If blocks were manufactured between May 15, 1982 and September 15, 1982, mount and wire block, order burnishing tools, and follow burnishing instructions.
- 2. If blocks were not manufactured during the suspect time frame, proceed to

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mount and wire them, no burnishing required.

- a. Condition: Blocks have been removed from shipping cartons and laid up on shelves, or wired and mounted and not yet cross-connected.

Corrective Action: Visually inspect the rear cable lead fanning strip of all blocks to locate and identify suspect block. Complete wiring and mounting, order burnishing tools, and follow burnishing instructions.

- c. Condition: Blocks have been mounted, completely wired, and partially cross-connected.

Corrective Action: Visually inspect the rear cable lead fanning strip of all blocks from the back side of the frame to locate and identify suspect blocks. Order burnishing tools. Indicate during telephone call that blocks are partially wired and to send extra single-clip tools. Follow furnished instructions.

- d. Condition: Jobs that have been completely wired, turned over to the Operating Company, and order number still open.

Corrective Action: Follow corrective action the same as Condition C.

- e. Condition: Jobs that have been completed, turned over to the Operating Company, and the order number closed.

Corrective Action: No corrective action will be taken for this condition, unless the following prerequisite provisions have been authorized.

1. The Operating Company must issue a Labor Only Order requesting the 112-Type connecting blocks be inspected and burnished. Only those terminals not cross-connected will be burnished.
2. When such a request has been made by the Operating Company, a separate "96" order number shall be issued for each job. When a "96" order number has been issued requesting this work be performed, installation effort will be recovered according to Paragraph 6.1.

3.2 There will not be any additional installation effort authorized for work performed outside the scope of Paragraphs 3.1A through 3.1E.

4. CORRECTIVE ACTION METHODS

- 4.1 To visually locate the suspect connecting blocks still in their shipping carton, simply open the carton and look at the date stamped on the rear right-hand corner of the cable lead fanning strip of each block. Note and identify blocks stamped between May 15, 1982 and September 15, 1982.

4.2 To visually locate connecting blocks that have already been wired and mounted, check the rear of the COSMIC IDF. Using a flashlight, look at the lower right-hand corner of the blocks. This will probably require pushing the cable leads aside to view the blocks; therefore, be careful not to break off any of the connected wires.

4.2.1 When the Distributing Frame (DF) is a COSMIC II frame, the Line Equipment (LE) module blocks can be date inspected as indicated in Paragraph 4.2. However, the 112-Type blocks which may be part of the 307 cable assembly must be handled differently.

4.2.1.1 The 307 cable assembly has a protector shop-wired to a 112-Type block and is used on the Outside Plant (OP) module of a COSMIC II DF. Most of the 112 blocks will not have a date stamped on the block. The dates are stamped on the 307 protector-connector. The date may be stamped on the right or left side of the block. With a flashlight inspect block for the date, if the date cannot be read with the protector in position, the 307 protector-connector can be opened with the KS-22271 Tool.

4.3 After suspect blocks have been identified by module, shelf and block numbers, go around to the front side of the frame and locate blocks.

5. BURNISHING PROCEDURE

5.1 The burnishing tools are to be ordered from:

Mr. C. E. Tidd
Baltimore Works
CORNET: 229-7940
Commercial: (301) 563-7940

5.2 The burnishing procedures are as follows:

- 5.2.1 It is recommended that all blocks be mounted and wired prior to burnishing.
- 5.2.2 Prior to burnishing, determine if the block is wired to line equipment.
- 5.2.3 Use the multiple-terminal tool on all blocks not wired to "live" equipment or partially cross-connected.
- 5.2.4 Use the single-terminal tool on all blocks which are wired to "live" equipment or partially cross-connected.

NOTE: Blocks may be burnished at a desk or table if they are properly supported and secured.

5.3 Tool Usage

5.3.1 Multiple-Terminal Tool

5.3.1.1 The burnishing is accomplished by inserting the blade into the slots of the terminals. For ease of insertion, insert tool into slot of left-most terminal, maintaining 90° orientation to face of block.

Roll tool to right and depress straight in until blade holder is in contact with top of terminals. Remove tool. Burnish both upper and lower terminals. Move over to the next group of terminals to burnish and repeat procedure. Upon completion of the burnishing, the block should be temporarily marked using acceptable local practice, i.e., twine, tape, etc. (see Figure 1).

5.3.2 Single-Terminal Tool

5.3.2.1 The single-clip tool operation is the same as multiple except the rolling action is not required.

<p>CAUTION: CARE SHOULD BE EXERCISED SO THAT THE TOOL DOES NOT CONTACT ADJACENT TERMINALS.</p>

5.4 After approximately 200 insertions, the blade shall be polished with emery cloth.

5.4.1 After approximately 500 blocks, the blade in the tool should be replaced. Blades can be acquired from Mr. Tidd, Baltimore Works.

6. DISPOSITION OF EXPENSES

6.1 The amount of time spent in performing the above work operations meets the requirements of CI 47.242 and shall be reported as a Route "A" JIM (Form SD-4-1007) for the issuance of a Type X supplementary estimate. Time will be charged to X-95 Code which will be collected by the Regions and Journal billed to Baltimore Works, Attention D. F. Trout, Department 13BA10520.

7. SPECIAL INSTRUCTIONS

7.1 Proper use of the 756C2 Tool is important. Even after burnishing, a wire can be cut or broken if the tool is pushed on to the terminal clip at an angle. American Telegraph & Telephone and Bell Labs have recommended that the upper terminal-clip be used as the primary cross-connection.

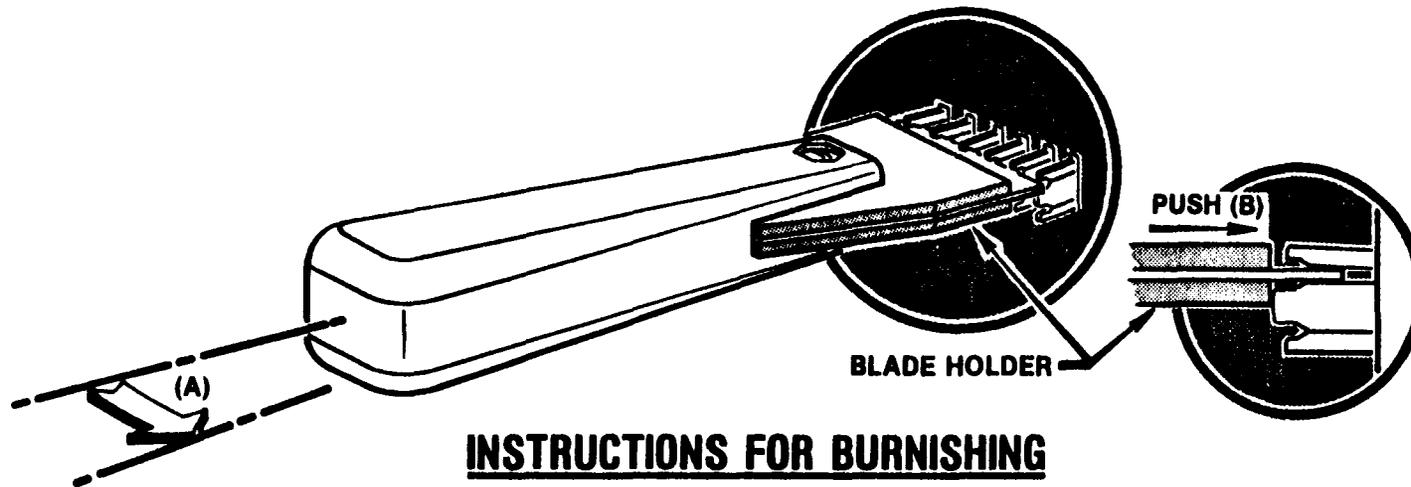
7.2 Questions regarding "Job Sites" involved should be referred to your Regional Technical Assistance Center (RTAC).

7.3 Questions regarding this Temporary Memorandum should be referred to Mr. J. P. (Jim) Feltman on CORNET 368-2960 or Commercial (312) 981-2960.

Engineering Planning Manager
(Installation)

Standard Distribution Plus:
1 copy to holder of Installation Engineering Handbooks 9 and 35.

Attachment:
Figure 1



1. USE THE MULTIPLE TERMINAL BURNISHING TOOL ON ALL BLOCKS NOT WIRED TO "LIVE" EQUIPMENT OR CROSS-CONNECTED.
2. USE THE SINGLE TERMINAL BURNISHING TOOL ON ALL BLOCKS THAT ARE "LIVE".
3. FOR EASIEST OPERATION WHILE BURNISHING, TEMPORARILY MOUNT UNWIRED BLOCKS ON THE FRAME AT A CONVIENENT LEVEL.
4. FOLLOW THE PROCEDURES (A) AND (B)
 - (A) INSERT THE TOOL IN THE SLOT OF ONE TERMINAL AND THEN ROLL THE TOOL TO THE RIGHT UNTIL 6 TERMINALS ARE ENGAGED. THIS ACTION WILL ALLOW YOU TO OPEN ONE TERMINAL AT A TIME.
 - (B) WHEN ALL TERMINALS ARE OPEN, PUSH STRAIGHT IN UNTIL THE BLADE HOLDER CONTACTS THE TERMINALS.
5. USE THE SINGLE TERMINAL TOOL LIKE THE MULTIPLE TERMINAL TOOL, EXCEPT:
 - THE ROLLING ACTION IS NOT NEEDED.
 - DO NOT CONTACT OTHER TERMINALS WITH THE TOOL.
 - BE CAREFUL NOT TO DISTURB CROSS-CONNECTIONS.
6. AFTER BURNISHING THE UPPER & LOWER SLOTS OF ALL TERMINALS, EACH BLOCK SHOULD BE MARKED USING ACCEPTABLE LOCAL PRACTICES, SUCH AS TWINE, TAPE OR COLORED MARKERS.

FIG. 1

RP-1031-G