

FIRST CLASS MAIL

Installation Engineering Handbook 18
Western Electric Company, Incorporated
Columbus Works

TM 4.114
7-16-70

TEMPORARY MEMORANDUM
NO. 5 CROSSBAR SYSTEM
SHORT BATTERY AND GROUND FRAME FEEDERS

1. GENERAL

1.1 This Temporary Memorandum applies to No. 5 Crossbar frames shipped from Omaha during the first two quarters of 1970. A portion of the frames manufactured in this interval were equipped with short battery and ground feeder cable assemblies. This condition can result in insufficient cable length to reach the associated row feeders after the slack is withdrawn from the uprights through the P-31A330 cable clamp assembly.

1.2 This problem resulted from the occasional substitution of feeder cables of a shorter length than those required for the frame application. The incorrect substitutions involved the following piece part cable assemblies:

<u>Cable Specified</u>		<u>Cable Used in Error</u>	
<u>Piece</u>	<u>Part No.</u>	<u>Piece</u>	<u>Part No.</u>
	<u>Length</u>		<u>Length</u>
P-40B656	14' 8"	P-40B654	13' 8"
P-40C282	15' 0"	P-40C281	13' 9"

1.3 For those jobs where short cable assemblies are encountered, this TM specifies the corrective action to be taken as approved by the Bell Telephone Laboratories. This TM will be effective through January 1, 1971 to cover the projected installation interval of the affected frames.

2. INSTALLING EQUIPMENT

2.1 The following tools are required to perform the operations covered by this T.M.:

- a) R-2884 Stripper or R-2761 Knife
- b) R-2485 Allen Wrench - 5/32"

3. ADDITIONAL MATERIAL

3.1 KS-5537 List 110 Parallel Connector, 8/8 (RM-784633)

3.2 KS-5482-01 8 Gauge Wire, Stranded (RM-631355)

NOTE: Length of power wire approximately 12-15 inches long should be sufficient to extend each short feeder. Order bulk length as required to extend all affected feeders.

3.3 If the above material is not available on the job, issue an Installer's Requisition showing the "Why Order" code as No. 7 and containing the following statement, "NOTE: In accordance with T.M. 4.114 to correct short frame feeders."

4. CORRECTIVE ACTION

4.1 If a frame battery or ground feeder is too short to reach the row feeders after withdrawing the slack from within the frame upright, extend the length of the short feeder by splicing a length of No. 8 power wire (KS-5482-01) as required to the frame feeder employing a KS-5537 List 110 Parallel Connector.

CAUTION: Exercise care when withdrawing slack to insure feeder insulation or connections in frame base will not be damaged due to excessive pressure if short feeders are encountered.

4.2 Skin end of frame feeder cable and one end of short extension cable $3/4$ inch to extend full length of the connector groove. Treat contact surfaces and assemble connector in accordance with standard Handbook 18 practices.

4.3 Position connector approximately above top front angle of framework.

4.4 After completing splice, connect frame feeders to row feeders in standard manner.

5. DISPOSITION OF EXPENSE

5.1 If the amount of work involved in performing the above operation is sufficient to meet the requirements of SDI 4-7326, it shall be reported on the SD-1007 J.I.M. form for the issuance of a Type X supplementary estimate in the X-41 category.

Manager, Crossbar Product Engineering
Control Center

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