

CONNECTING
VERIFICATION

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1. SCOPE

1.1 This section provides a list of verification items for the sections in the 7 series covering connecting of power wire. The paragraphs and/or figure number covering the requirement is shown following the item listed. Items in sections under main paragraph heading "Verification" are not repeated in this section.

2. GENERAL 7A

- 2.01 Strands unbroken when connecting stranded wire. 4.211
- 2.02 Bonding wire bent back and antishort bushings installed on ends of armored wire and cable. 5.23, 5.31
- 2.03 Connector fastened securely to armor and bonding wire grounded. 5.42
- 2.04 Insulation provided at box connectors where No. 4 AWG and larger enter a box. 5.43
- 2.05 Armor at ringing machines and power boards properly terminated. 5.45, 5.46
- 2.06 One half of split panels on power service cabinets left blank. 5.47
- 2.07 Lead sheathed cable and wire butted at proper location. 7.2
- 2.08 Tape-layer under lead sheath properly prepared. 7.3
- 2.09 Only one wire per punching, lug or connector. 8.102
- 2.10 Splices in unauthorized locations. 8.103
- 2.11 Alarm wiring connected at discharge fuses and associated alarm fuses. 8.105
- 2.12 AC branch circuits tested after being placed in service. 8.21
- 2.13 Polarity and potentials correct. 10.45, 12.2
- 2.14 AC branch circuits continuity tested for absence of ground on neutral before connecting to ground. 10.61

2.15 AC branch circuits tested for split phases after being placed in service. 10.62

2.16 Phase sequence checked at ac transfer switch and verification record made. 11.1, 11.3

2.17 Inspection to assure ac wiring color code and polarity meets NEC requirements. 13.1, 13.3

2.18 Ends of connected power wires insulated. 15.2

2.19 Dummy fuses installed where required. 16.1

3. DRESSING 7B

3.1 Dress of leads agree as nearly as possible to illustrations. 4.12, 4.13, Figures 1-40.

3.2 Wires dressed so as not to interfere with enclosing devices. 4.14

3.3 Unused branch leads on stepper frame feeder assembly secured. 4.15

4. SOLDER LUGS, PUNCHINGS AND SPLICES 7C

4.1 Connections to small battery distributing feeders made with soldered splices at unprotected locations. 6.53

4.2 Soldered connections to terminals mechanically secure. 7.4

4.3 Soldered terminal punchings taped in open cell battery rooms. 7.5

5. SOLDERLESS LUGS, CONNECTORS, SPLICES AND CONNECTIONS 7D

5.01 Correct size connector used. 2.33

5.02 Wire nuts accessibly located. 2.42

5.03 Small battery distribution leads connected together with small wire connectors in protected locations. 4.21

5.04 Small power service leads spliced with approved small wire connectors. 4.31

5.05 Wire nuts tight. 4.45

- 5.06 Wire insulation within connector. 4.46
- 5.07 Parallel connectors properly located and accessible. 5.02, 5.03
- 5.08 Maximum "shiner" on parallel connectors. 5.09
- 5.09 Parallel connectors electrically and mechanically secure. 5.08
- 5.10 Properly fitted parallel connector cover. 5.101
- 5.11 Crosstaps installed similar to parallel connectors. 6.1
- 5.12 Two-way connectors electrically and mechanically secure. 7.6
- 5.13 Two-way covers properly fitted. 7.71
- 5.14 Wire extended beyond lug clamping plate. 8.207
- 5.15 Wire in lug mechanically and electrically secure. 8.208
- 5.16 Maximum "shiner" on connectors. 8.209
- 5.17 Lugs at batteries and CEMF cells properly treated. 8.2101
- 5.18 Wire end projects 1/8" to 1/4" beyond body of lug on end guard fuse assembly. 9.2

- 5.19 Strands spread for mechanical security on Bull Dog end guard fuse assembly. 9.5
 - 5.20 Lugs in Bull Dog end guard fuse assembly set up tight. 9.51
 - 5.21 Lugs in Frank Adams end guard fuse assembly set up tight. 9.6
 - 5.22 Wire under screw heads properly held and securely tightened. 10.3
 - 5.23 KS-5537 List 300 connectors equipped with wire in each recess. 11.7
 - 5.24 KS-5537 List 300 connector electrically and mechanically secure. 11.8
6. MOUNTING TERMINAL LUGS AND STUD CONNECTORS 7E
- 6.1 Clamp lugs properly tightened. 4.5
 - 6.2 Locknuts installed on clamped lugs. 4.6
 - 6.3 Proper bolting material used. 5.2
 - 6.4 Bolted lugs properly tightened. 5.8
 - 6.5 Stud connector clamping screws tight and palnuts installed. 6.23
 - 6.6 Lugs and bars tightened on studs. 6.33
 - 6.7 Screws or nuts properly securing punchings. 7.3

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Reason for Reissue:
To bring items into agreement with
revised sections in the 7 series.

Replaces Section 7V dated 9-15-60.