BUS BARS

GENERAL

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1. GENERAL

1.1 Scope

1.11 This section covers general information on copper and aluminum bus bars used as uninsulated electrical conductors. As indicated in the handbook Table of Contents, specific operations such as bending, cutting, drilling, supporting, erecting, taping, and connecting are covered in other sections in the 8 series.

1.2 Cautions

1.21 When work is to be done on working circuits secure the specific approval of the authorized telephone company representative and agree on procedures and schedule.

1.22 All reasonable precautions shall be taken to avoid physical injury to personnel, interruption of service and damage to equipment.

1.23 Refer to Handbook 0 which covers the following.

1.231 Cooperation with the telephone company.

1.232 Precautions and safeguards to prevent service interruptions.

1.233 Personnel hazards.

1.234 General protection of working equipment.

1.3 Protection

1.31 When preparing to work with bus bars near live equipment it will be necessary to protect this adjacent equipment. When working on live bus bars that are near grounded objects the ground presents a hazard and should likewise be insulated.

1.32 When working with bus bars on the rear of power boards, bays, panels, etc., protect live equipment. For these locations the R-3154 Protective Sheeting is preferred as it can be easily tucked into small spaces and has good resistance to penetration by impact. When the sheeting is likely to be touched or disturbed it should be tied securely in place without puncturing.

1.33 Live bus bar runs in the open, such as those from the main power board to the charging equipment or to the batteries, should be protected before working near them.

1.331 Use fiber board or any other available light weight board. Fiber board can usually be obtained by cutting pieces from the outer covering of cable reels or from packing cases made of this material. Remove metal straps, nails etc.

1.332 When working on these live bars protect them by wrapping grounded rods, superstructure etc. with layers of heavy cardboard from cartons folded around and tied securely with No. 48 twine. Supplement with strip canvas as required at support points, etc.

1.34 Cover tools, such as screwdrivers and wrenches, with approved insulating material in such a way as to reduce the liability of short circuits to a minimum.

1.35 Sharp edges and burrs on bus bars should be dressed with a file to prevent personal injuries when handling.

2. INSTALLING EQUIPMENT

2.1 The tools and supplies required for operations in the series 8 sections are listed below.

2.11 Tools

Code	Description	In Kit
R-2628	Brush, Wire	3
R-1298	Can, Oil, 1/2 Pint	3,4,5,49,50, 102,267
R-1748	Clamp, C, 3"	3,4,42,49, 102
R-1455	Clamp, C, 6"	3,4,32,32A, 42,49,102, 145
R-1285	Drill, Electric 5/16"	-
R-1357	Drill, Electric 1/2" (for stand use only. R-62253 Motor Drill Stand)	-
or R-3032	Drill, Electric 1/2" (Used with or without R-3033 Motor Drill Stand)	-

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Code	Description	In Kit
R-62253	Drill, Stand, Motor	
R-3033	Drill, Stand, Motor	
R-3055	Goggles, Safety, All Plastic	4,32,32A,36, 42,43,48, 55,102,145, 162
R-3162	Holder, Abrasive Paper	3
R-1370	Level, Bench, 12"	3,32,32A,102
R-2557 or R-3030	Saw, Hack, Power, Portable (See Note 1)	
R-2698	Wrench, Box, Hex. 1/2" - 9/16"	3
R-2699	Wrench, Box, Hex. 5/8" - 3/4"	3
R-2700	Wrench, Box, Hex. 13/16" - 7/8"	3
R-2701	Wrench, Box, Hex. 15/16" - 1-1/16"	3,210
R-2702	Wrench, Box, Hex. 1" - 1-1/8"	3

NOTE 1: Specify the type of current (ac or dc) the voltage and the frequency (ac only) to insure the receipt of a saw equipped with the proper motor.

2.12 Supplies

Code	Description
RM-669152	Gloves, Cotton
RM-648004	Oil, Cutting
RM-646726	Paints, Varnish, Shellac, Orange
→ R-3266	Compound, NO-OX-ID "A"
R-3163	Paper, Abrasive
Obtain Locally	Plywood or Fiberboard
R-3154	Sheeting, Protective
KS-7860	Spirits, Petroleum
RM-591127	Tape, Friction, 3/4"
RM-591102	Tape, Rubber
RM-628546	Tape, Varnished, 1"
→	Tape, Gray Plastic
ID-1270A	Warning Tag
ID-1270	Warning Tag

3. JOB INFORMATION

3.1 The job information and job drawings should be carefully analyzed before starting the bus bar assembly. Failing to do so may result in blocking the assembly of certain bars or details. For example, at the rear of the main power board, details feeding switch and fuse units should be loosely assembled before the main battery discharge bars are installed. Careful planning will avoid difficulties of this nature.

4. STORING BUS BAR DETAILS

4.1 As the bus bars are received on the job, store the heavier bars so their detail numbers are visible. This will save time and reduce handling when, and as, they are required for assembly.

4.2 Exercise care when handling the bars to avoid nicks and scratches, and when storing the bars so as to protect against paint, grease or other foreign material. Wear cotton gloves to avoid perspiration stains on silver-plated bars.

→ Arrowed lines indicate new or changed information

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Reason for Reissue:
(1) To add Gray Plastic Tape and replace Petrolatum with NO-OX-ID Compound in Paragraph 2.12.

Replaces Section 8A dated 11-20-58.