Installation Engineering Handbook 30
Western Electric Company, Incorporated
Engineering Division

MOUNTING SHELVES, UNITS AND OTHER FRAME MOUNTED EQUIPMENT COMMON INFORMATION

CONTENTS

1. GENERAL

1.1 Scope

2. PRECAUTIONS

2.1 Precautions Against Personal Injury and Equipment Damage
2.2 Associate Information

3. FURNISHING OF MOUNTING SCREWS

4. INTERFERENCE FROM OVERHEAD OBSTRUCTIONS

4.1 Step-by-Step Shelves and Line Finder Units
4.2 Other Frame Mounted Equipment

5. SUPPORT OF CHAIN AND ROPE HOISTS

6. LOCATION OF EQUIPMENT

7. ADDITIONAL TOOL INFORMATIONS RELATED TO MOUNTING EQUIPMENTS

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1. GENERAL

1.1 Scope

1.11 This section contains common information for mounting shelves in step-by-step offices and other frame mounted units in all types of offices.

2. PRECAUTIONS

2.1 Precautions Against Personal Injury and Equipment Damage

2.11 The precautions to be taken against personal injury and to prevent damage to equipment and service interruptions are covered in this section with the associated operations. General precautions are covered in Handbook 0 and are to be observed at all times as they apply to the particular operation being performed.

2.2 Associated Information

2.21 To prevent possibility of damage, do not remove equipment from shipping frames or cases until ready for mounting or for making changes preliminary to mounting.

2.22 Under no circumstances shall switchboard cable be used for hoisting shelves, units or other equipment. If for any reason the standard fixtures or slings cannot be used, suitable manila rope should be obtained locally.

2.23 Where a wire rope hoist is used such as the R-3015, periodic inspection shall be made of the wire rope as outlined in Handbook 28. Handbook 28 includes general maintenance information on all types of hoisting equipment used.

3. FURNISHING OF MOUNTING SCREWS

3.1 Screws and washers required for mounting new apparatus and equipment will be furnished with, and are usually tied to, the associated unit by the shop.

3.2 Screws and washers required for mounting apparatus and equipment provided by the operating company should normally be furnished with the equipment. If missing, requisition in the usual manner.

3.3 Screws furnished for mounting apparatus and equipment may have the same thread size and yet vary slightly in length. To insure use of proper length screws in each case, exercise care to prevent mixup of the various lengths furnished.

4. INTERFERENCE FROM OVERHEAD OBSTRUCTIONS

4.1 Step-by-Step Shelves and Linefinder Units

4.11 Section 50D of this handbook covers the methods for mounting shelves and line finder units on SxS jobs using a R-3015 Step-by-Step Unit and Shelf Hoist Set.

4.12 Where the topmost shelf or unit on a frame must be mounted in the highest mounting space (not normally used) because of a nonstandard frame equipment arrangement in an office where cable rack is at the same level as the auxiliary framing, the R-3015 hoist set cannot be used. If no other hoisting rig can be made with the chain hoist, then arrangements should be made to have transfer or warehouse workmen mount the top units.

4.13 Where interference from aisle lighting conduits or other overhead obstructions that cannot be readily removed by the installer, prevents the use of the R-3015 or the chain hoists, arrangements should be made either (1) to have the telephone company remove the obstruction or (2) to have the units mounted by transfer or warehouse workmen.

4.2 Other Frame Mounted Equipment

4.21 Where low ceiling (13'-6" or less) prevent the rope or chain hoists from being located high enough to

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CONTENTS

1. GENERAL
2. PRECAUTIONS
3. FURNISHING OF MOUNTING SCREWS
4. INTERFERENCE FROM OVERHEAD OBSTRUCTIONS
5. SUPPORT OF CHAIN AND ROPE HOISTS
6. LOCATION OF EQUIPMENT
7. ADDITIONAL TOOL INFORMATIONS RELATED TO MOUNTING EQUIPMENT

1. GENERAL

1.1 Scope

1.11 This section contains common information for mounting shelves in step-by-step offices and other frame mounted units in manual toll offices. No units are included for use in panel offices or other offices subject to extensive changes.

2. PRECAUTIONS

Vertical lines at side of paragraphs indicate additions or changes.

2.1 Precautions Against Personal Injury and Equipment Damage

2.11 The precautions to be taken against personal injury and to prevent damage to equipment and service interruptions are covered in this section with the associated operations. General precautions are covered in Handbook 0 and are to be observed at all times as they apply to the particular operation being performed.

2.2 Associated Information

2.21 To prevent possibility of damage, do not remove equipment from shipping frames or cases until ready for mounting or for making changes preliminary to mounting.

2.22 Under no circumstances shall switchboard cable be used for hoisting shelves, units or other equipment. If for any reason the standard fixtures or slings cannot be used, suitable manila rope should be obtained locally.

2.23 Where a wire rope hoist is used such as the R-3015, periodic inspection shall be made of the wire rope as outlined in Handbook 28. Handbook 28 includes general maintenance information on all types of hoisting equipment used.

3. FURNISHING OF MOUNTING SCREWS

3.1 Screws and washers required for mounting new apparatus and equipment will be furnished with, and are usually tied to, the associated unit by the shop.

3.2 Screws and washers required for mounting apparatus and equipment provided by the operating company should normally be furnished with the equipment. If missing, requisition in the usual manner.

3.3 Screws furnished for mounting apparatus and equipment may have the same thread size and yet vary slightly in length. To insure use of proper length screws in each case, exercise care to prevent mixup of the various lengths furnished.

4. INTERFERENCE FROM OVERHEAD OBSTRUCTIONS

4.1 Step-by-Step Shelves and Linefinder Units

4.11 Section 50D of this handbook covers the methods for mounting shelves and line finder units on SxS jobs using a R-3015 Step-by-Step Unit and Shelf Hoist Set.

4.12 Where the topmost shelf or unit on a frame must be mounted in the highest mounting space (not normally used) because of a nonstandard frame equipment arrangement in an office where cable rack is at the same level as the auxiliary framing, the R-3015 hoist set cannot be used. If no other hoisting rig can be made with the chain hoist, then arrangement should be made to have transfer or warehouse workmen mount the top units.

4.13 Where interference from aisle lighting conduits or other overhead obstructions that cannot be readily removed by the installer, prevents the use of the R-3015 or the chain hoists, arrangements should be made either (1) to have the telephone company remove the obstruction or (2) to have the units mounted by transfer or warehouse workmen.

4.2 Other Frame Mounted Equipment

4.21 Where low ceiling (13'-6" or less) prevent the rope or chain hoists from being located high enough to lift the units over partition or if interference from lighting conduits or other overhead obstructions, that cannot be readily removed by the installer, follow the procedure outline under Paragraph 7.1.

5. SUPPORT OF CHAIN AND ROPE HOISTS

5.1 Section 19A2 of this handbook covers the R-3431, a portable, prefabricated, hoisting bar with quick acting "T" bolt type clamps at each end for securing the regular mounting screws. The R-72068 or R-3764 "U" bolts are located at the center of each member for attaching the hoist. These portable hoisting bars can be fastened below the ceiling inserts or beam clamps to provide a means to support the hoisting equipment.

6. LOCATION OF EQUIPMENT

6.1 The location of equipment should conform to the particular plans for each installation.

6.2 Where limiting dimensions or tolerances are not specified the equipment should be located to within such limits of the specified dimensions as will insure satisfactory functioning and workmanlike appearance of the equipment.

7.1 Section 50A2 of this handbook covers the methods for mounting shelves, units within overhead supported frame using R-3758 Universal Frame and cabinet using R-3870 manual Hydraulic Lift truck. It is recommended for use only where ceiling inserts or beam clamps are not available for ceiling supported hoisting facilities. Adjustable from 9'0" to 14'0".

7.2 Section 50A1 of this handbook covers the methods for mounting shelves, units with R-3758 Universal Frame and cabinet using R-3870 manual Hydraulic Lift truck. It is recommended for use only where ceiling inserts or beam clamps are not available for ceiling supported hoisting facilities. Adjustable from 9'0" to 14'0". The stanchion may be located either at the left or right end of the hoisting bar to meet varying hoisting conditions.

7. ADDITIONAL TOOL INFORMATIONS RELATED TO MOUNTING EQUIPMENT

Reason for Reissue:
(1) To remove old erecting methods for Hoists Support.
(2) To include new erecting methods using R-3431 Portable Hoisting Bars.