ROLLING LADDERS, BRAKES AND LADDER TRACK

PORTABLE TYPE ROLLING LADDERS

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1. GENERAL

1.1 Scope of Section

1.11 This section covers the specific requirements and methods for installing portable type rolling ladders.

1.2 General Information Pertaining To Arrangement of Tools, Precautions, Verification, Specifications, Drawings and Figures, and Associated Information

1.21 Refer to Section 40A for information pertaining to the above subjects.

2. TOOLS REQUIRED

2.1 The tools and supplies required for operations covered in this section are of the type normally available on the job with the exception of KS-16832 lubricant and KS-14208 brush.

3. DESCRIPTION

3.1 The KS-5239-03 Lists 1 and 2 (formerly ED-91739-70 and ED-91740-70, respectively) Portable Rolling Ladders are step-ladders which are provided with wheels, one on each of the four side rails. The wheels provide an easy means of moving the ladders in either the opened or closed position. The wheels are retractile so that the side rails rest on the floor as soon as a person steps on the ladder. The ladders are approximately 5'-8-3/8" and 6'-3-3/8" high respectively when in the open position.

4. ADJUSTMENTS

4.1 Oridinarily, the KS-5239-03 Lists 1 and 2 Portable Rolling Ladders are adjusted by the supplier. However, before being turned over to the telephone company they shall be inspected and, if necessary, readjusted in accordance with the requirements listed below.

4.2 With the floor wheel brackets lubricated so that there is no undue friction between the two parts of the floor wheel brackets and with the adjustment nuts located centrally on the adjustment screw, the ladder shall meet the following requirements, measured first on one side and then on the other side.

4.21 With a load of 10 pounds placed in the center of the bottom step and the two side rails brought in contact with the floor by pressing down on the bottom step by hand, the springs which cause the retractile wheel brackets to operate shall be of sufficient strength to lift the two side rails off the floor after the hand is removed so that sheets of paper may be passed freely back and forth under both of the side rails.

4.22 With a load of 30 pounds placed in the center of the bottom step and the two side rails lifted off the floor by hand and then released, the 30 pound weight shall cause the side rails to rest on the floor so that it is impossible to pass a sheet of letter paper under either side rail.

4.23 With 200 pounds placed in the center of the fourth step on either side of the ladder all four side rails shall be in

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contact with the floor so that it is impossible to pass a sheet of letter paper under any side rail.

4.24 With no load on the ladder, the springs shall hold the movable parts of all four of the floor wheel brackets against the stops and it shall be possible to pass a 1/16" gauge under all four side rails but impossible to pass a 3/16" gauge under any of the four side rails.

4.3 To adjust the height of the ladder side rails from the floor on Western Electric wheel assemblies, loosen the backstop screw locknuts. Turn the screw in to lower the rails, or turn it out to raise them. When the proper position has been attained, retighten the locknuts. To increase the tension on the wheel support, loosen the locknut on the spring adjusting screw and turn the screw in; to release tension, turn the screw out. When the load requirements have been met, retighten the locknut. On outside supplier's assemblies with adjusting details, the same procedure can be followed for the spring adjustment. The side rail height, however, can only be changed by shifting the mounting of the whole assembly.

5. LUBRICATION

5.1 The edge of the cutouts of the spreader cam, which is located under the spreader hood, shall be lubricated with KS-16832 lubricant applied with a KS-14208 brush. Access to the cam is best obtained with the ladder in the folded condition.

6. CLEANING AND REFINISHING

6.1 The requirements and methods for the cleaning and refinishing of track type rolling ladders covered in Section 40D also apply to portable type ladders.

7. VERIFICATION ITEMS

VERIFICATION ITEMS AND BRIEF STATEMENT OF REQUIREMENTS	REFERENCE	
	Par. No.	Fig. No.
7.1 Adjustments		
7.11 No undue friction between the two parts of the floor wheel brackets.	4.2	
7.12 Operation of floor wheels satisfactory under conditions specified.	4.2	
7.2 Edge of cutouts of spreader cam lubricated.	5.1	
7.3 Ladders cleaned or refinished where necessary.	6.1	

No arrows are shown due to extensive changes.

Vertical line at side of paragraph indicates requirements.

Assistant Manager, Engineering
Common Facilities and Methods

Reason for reissue:
As part of the general revision of the 40 Series of Sections.