ROLLING LADDERS, BRAKES AND LADDER TRACK
PIECE PART DATA AND MODIFICATIONS

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1. GENERAL

1.1 Scope of Section

1.11 This section covers the information necessary for ordering parts for track-type rolling ladders and portable-type stepladders. It also contains information on modifications to various ladders that the Installer may be called upon to perform in the field.

1.12 Paragraph 2 of this section covers the piece part numbers and the corresponding names of the parts which are practicable to replace in the field. No attempt should be made to replace parts not designated, but rather in this case arrangements should be made to return the item for repair.

1.2 Associated Information

1.21 Sections of this handbook covering the equipment involved and the ladder section(s) in Handbook 3.

1.22 Bell System Practices Section 065-105-801 for additional information on minor repairs and replacement procedures for parts.

1.23 Specifications and drawings furnished to the job.

2. PIECE PART INFORMATION

2.1 Identification of Parts

2.11 With the exception of Fig. 11, Figures 2 to 13, inclusive, show the various piece parts of the items and their associated assemblies. The names of parts are also included as far as practicable to facilitate identification.

2.12 The ladders covered in this section have been supplied by the Western Electric Company or by an outside supplier. Parts which are to be furnished by the Western Electric Company are listed by their P numbers while parts furnished by outside suppliers are listed by EP or B numbers. A few parts, peculiar to the older outside supplier's ladders, are listed by their KS specification detail numbers.

2.2 Identification of Ladders

2.21 All ladders manufactured by the Western Electric Company are steel stamped with the characters, Western Electric Company, Made in U.S.A., and the ED drawing number. This stamping is located either on the central portion of a side rail or on the bottom

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of a centrally located step. Old KS ladders usually have the outside supplier's nameplate with a stamped KS number located on an inner side rail on the upper portion of the ladder. The newer outside supplier's ladders have the KS number and the list number on the outside, the same as the Western Electric Company ladders. If no identifying mark can be found on an older type ladder, it can be assumed that the ladder is a KS specification ladder.

2.3 Ordering Parts

2.31 When ordering parts for replacement purposes, it will be necessary to determine if the part is a product of the Western Electric Company indicated by P numbers, of outside supplier's manufacture indicated by EP or B numbers, or in some cases by KS specification detail numbers, and to order accordingly. The P number, the EP number, the B number, or the KS specification detail number should be given as well as the name of the part. For example: from Fig. 4, "Floor Wheel Bearing Det. 20 of KS-5049-01 Ladder" or "P-450354 Wheel Bearing", also from Fig. 6, "Hinge Assembly EP-30A111". Do not refer to BSP numbers or to any information shown in parentheses following the piece-part numbers.

2.32 In the ordering of replacement parts, determine if cotter pins, tab lockwashers, mounting screws, or tie rods and bolts are likely to be damaged in the removal of the old part. If there is a possibility that they may not be reused, order the required quantity together with the replacement part.

3. MODIFICATIONS

3.1 Adding Ropes to Spreaders on KS-5239-03 Portable Rolling Ladders

3.11 The KS-5239-03 Ladders may be modified in the field by the addition of straps, S-hooks, and cords as shown in Fig. 1. This modification may be accomplished in either of two ways. The first method consists of riveting straps to the existing spreaders and adding straps to the top step support. The second method is similar to the first with the exception that new spreader assemblies are used rather than riveting the straps to the existing spreaders.

3.12 The first method of this modification is performed as follows:

(a) Remove the rivets from the spreader cover on one side and position the P-30H124 Strap as shown in Fig. 1. Rerivet using EP-374635 Rivets. Repeat operation on second side.

(b) Using wood screws, attach a P-30H124 Strap to the outer side of the top step support as shown in Fig. 1. Repeat operation on second side.

(c) Insert an S-hook in each strap and with ladder in open position, tie nylon rope to the S-hooks leaving a slight slack in the rope. See Fig. 1

3.121 The following materials are required for the first method.

Quantity	Description
4	P-30H124 Straps
4	EP-374635 Rivets
4	S-Hooks (1-5/8 inch)
4	No. 12 x 3/4-inch RHW Screws
2	Pieces of 3/16-inch diameter braided nylon rope approximately 3 feet long.

3.13 The second method is essentially the same as the first except the spreader assemblies are replaced with new assemblies having straps already added for this alteration. The following materials are required for the second method.

Quantity	Description
2	EP-374629 Spreader Assemblies
2	P-30H124 Straps
4	S-Hooks (1-5/8-Inch)
4	No. 12 x 3/4-inch RHW Screws
2	Pieces of 3/16-inch diameter braided nylon rope approximately 3 feet long.

3.2 Replacing Top Step and Side Plates on KS-5049-01 Straight-Type Rolling Ladder

3.21 When replacing a malleable iron top step of a KS-5049-01 Rolling Ladder, redrill the side rails as shown in Fig. 11 and mount the step assembly and plate as shown in Fig. 2.

3.3 Replacing Wheel Assemblies on Portable-Type Rolling Ladders

3.31 When either a P-452523 or a P-432663 Wheel Assembly has to be replaced, all four wheel assemblies are to be replaced by wheel assemblies EP-30A113 and EP-30A572. In order for the newer type wheel assemblies to be mounted, the side rails will have to be modified in accordance with Fig. 14. When wheel support assemblies have been replaced, stake the screws flush with the nuts. (See Fig. 6, 7, 12, and 14.)

→ Indicates new or changed information

Engineering Planning Manager
Common Installation Engineering

ATTACHMENT
Figures 1 thru 14 on pages 4 thru 14.

Reason for Issue:
Fig. 5 revised to show wire-formed rope guides and "Nicopress aluminum sleeve application".

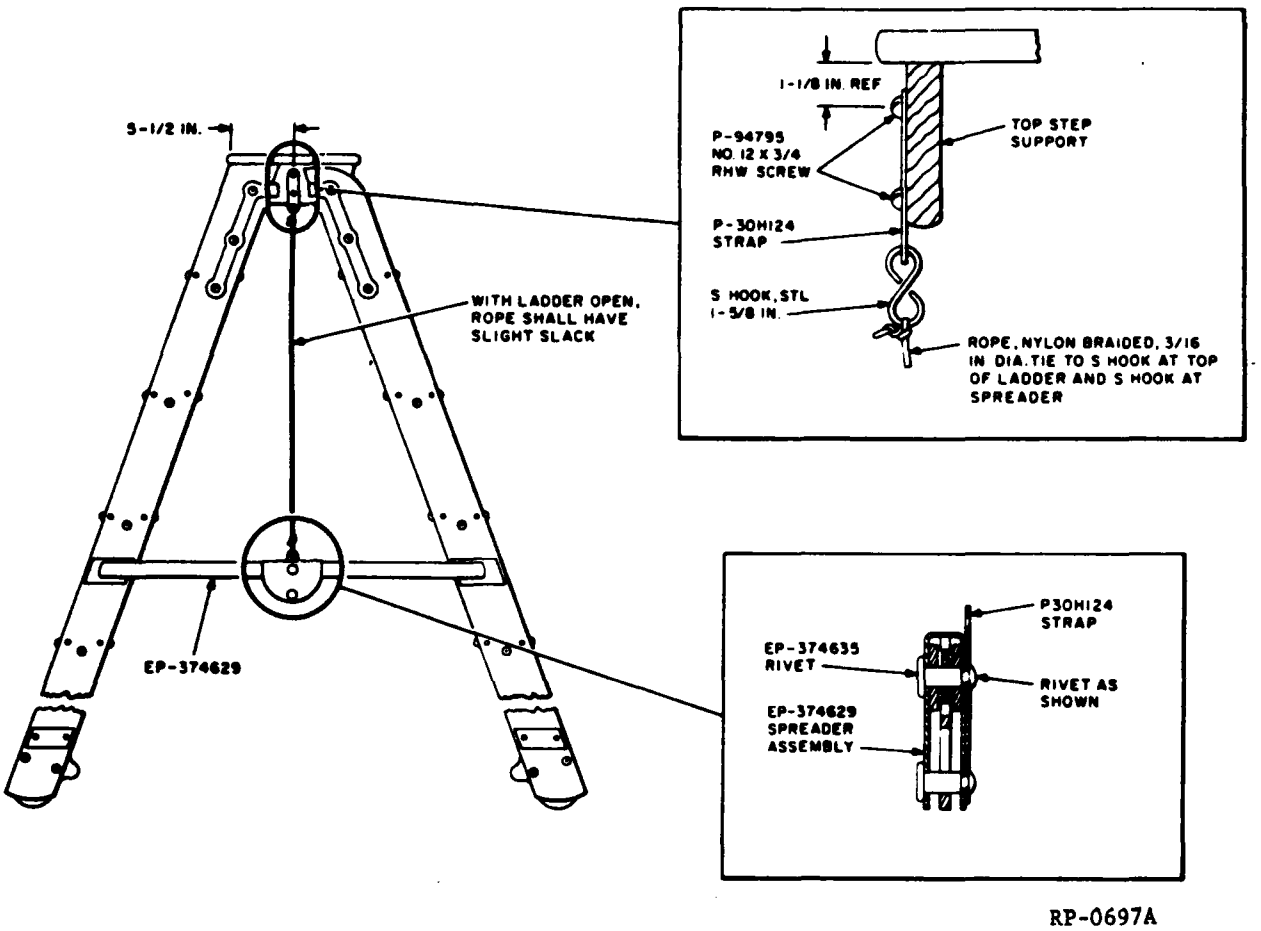
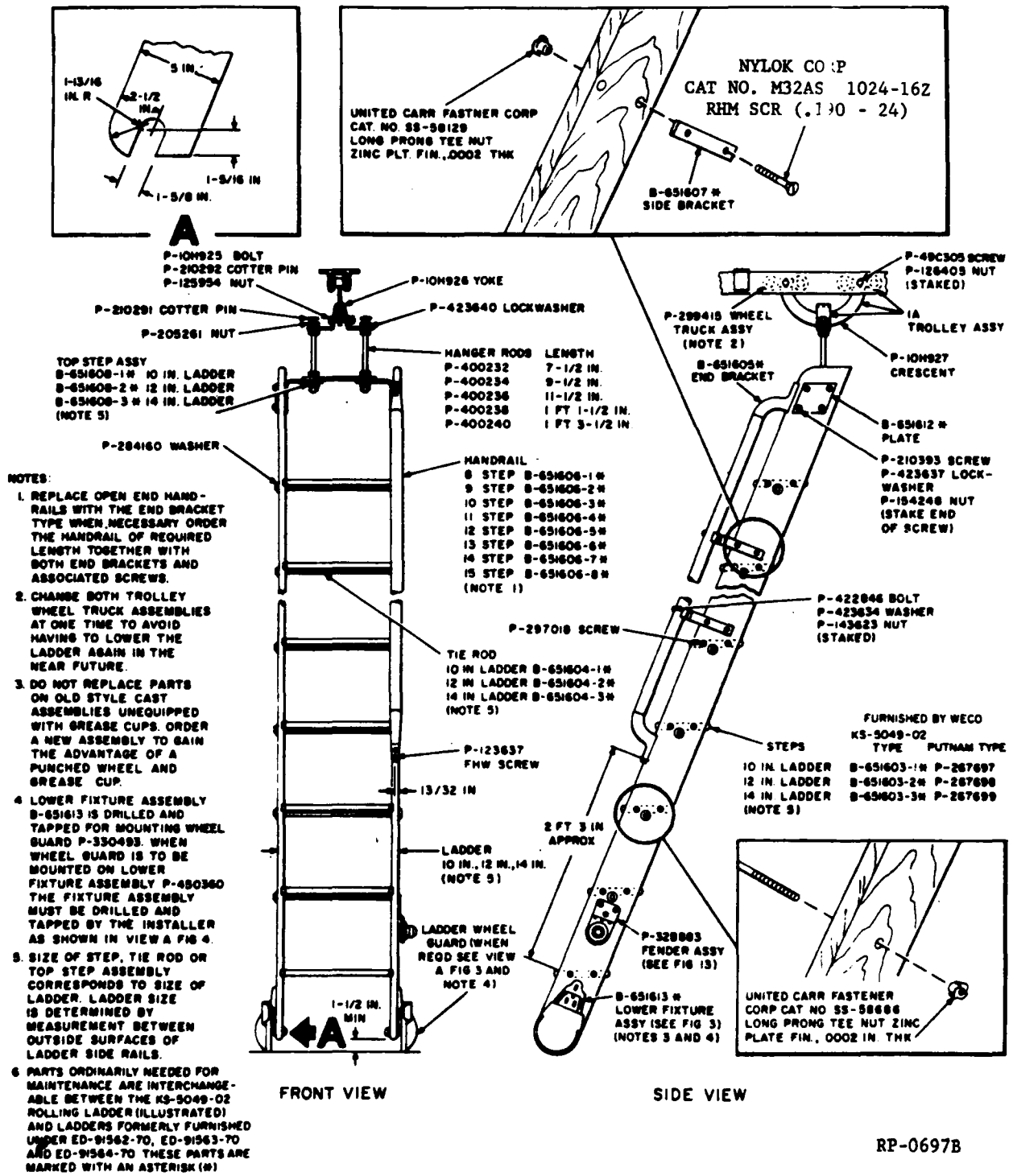


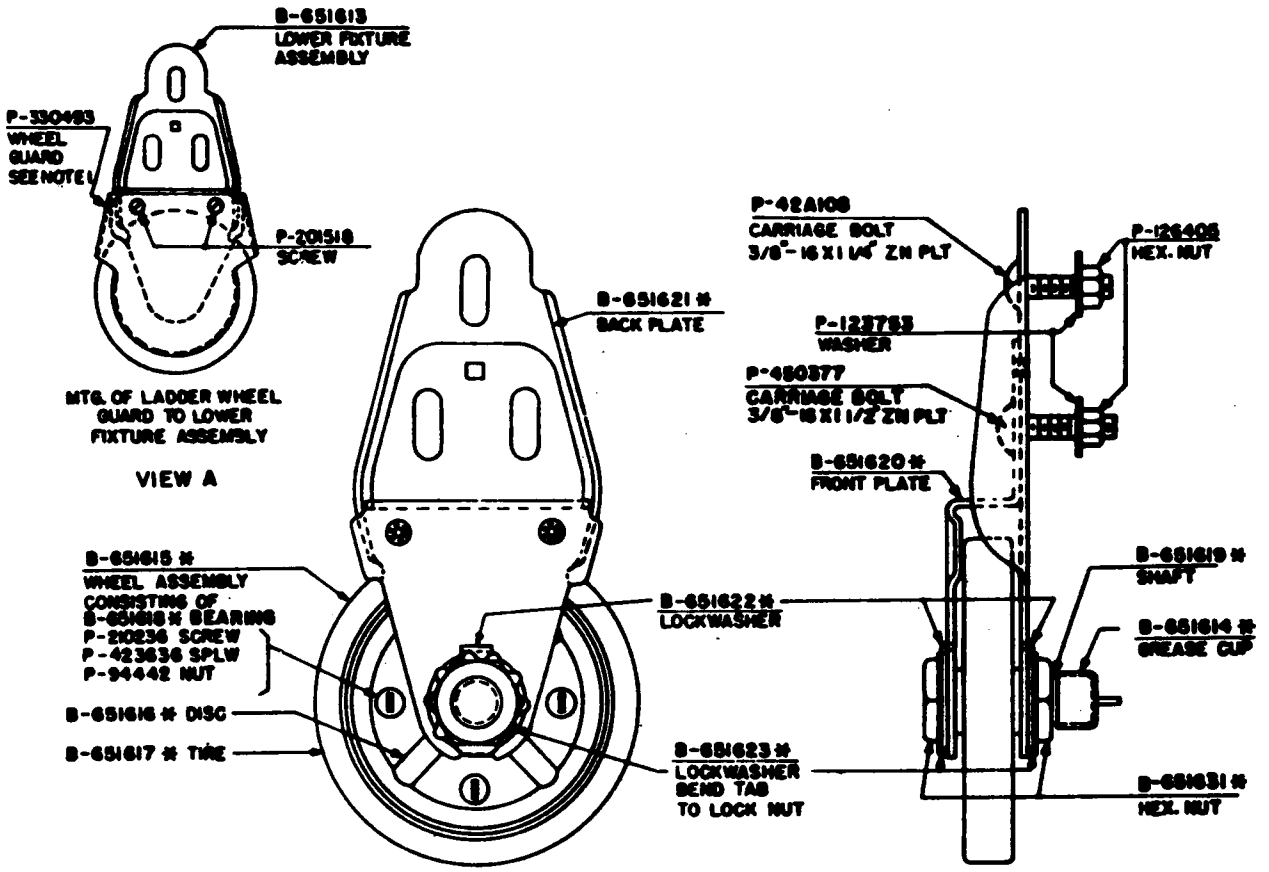
FIG. 1 MODIFICATION OF KS-5239-03 LADDER
(PAR. 3.1)



NOTES:

1. REPLACE OPEN END HANDRAILS WITH THE END BRACKET TYPE WHEN NECESSARY ORDER THE HANDRAIL OF REQUIRED LENGTH TOGETHER WITH BOTH END BRACKETS AND ASSOCIATED SCREWS.
2. CHANGE BOTH TROLLEY WHEEL TRUCK ASSEMBLIES AT ONE TIME TO AVOID HAVING TO LOWER THE LADDER AGAIN IN THE NEAR FUTURE.
3. DO NOT REPLACE PARTS ON OLD STYLE CAST ASSEMBLIES UNEQUIPPED WITH GREASE CUPS. ORDER A NEW ASSEMBLY TO GAIN THE ADVANTAGE OF A PUNCHED WHEEL AND GREASE CUP.
4. LOWER FIXTURE ASSEMBLY B-651613 IS DRILLED AND TAPPED FOR MOUNTING WHEEL GUARD P-330493. WHEN WHEEL GUARD IS TO BE MOUNTED ON LOWER FIXTURE ASSEMBLY P-450360 THE FIXTURE ASSEMBLY MUST BE DRILLED AND TAPPED BY THE INSTALLER AS SHOWN IN VIEW A FIG 4.
5. SIZE OF STEP, TIE ROD OR TOP STEP ASSEMBLY CORRESPONDS TO SIZE OF LADDER. LADDER SIZE IS DETERMINED BY MEASUREMENT BETWEEN OUTSIDE SURFACES OF LADDER SIDE RAILS.
6. PARTS ORDINARILY NEEDED FOR MAINTENANCE ARE INTERCHANGEABLE BETWEEN THE KS-5049-02 ROLLING LADDER (ILLUSTRATED) AND LADDERS FORMERLY FURNISHED UNDER ED-91562-70, ED-91563-70 AND ED-91564-70. THESE PARTS ARE MARKED WITH AN ASTERISK (#)

FIG. 2 STRAIGHT-TYPE ROLLING LADDER, KS-5049-02



NOTES:

1. WHEEL GUARDS P-330493 SHALL BE FURNISHED ON ALL LADDERS IN NO. 5 CROSSBAR OFFICES, ON LADDERS FOR NEW-TYPE CABLE DUCT FRAMES HAVING REMOVABLE GUARD RAILS AND ON THE FRAME SIDE OF LADDERS AT DISTRIBUTING FRAMES IN ALL OFFICES

2. PARTS ORDINARILY NEEDED FOR MAINTENANCE ARE INTERCHANGEABLE BETWEEN THE B-651613 LOWER FIXTURE ASSEMBLY (ILLUSTRATED) AND THE P-33A396 LOWER FIXTURE ASSEMBLY. THESE PARTS ARE MARKED WITH AN ASTERISK (*).

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FIG. 3 LOWER FIXTURE ASSEMBLY, B-651536

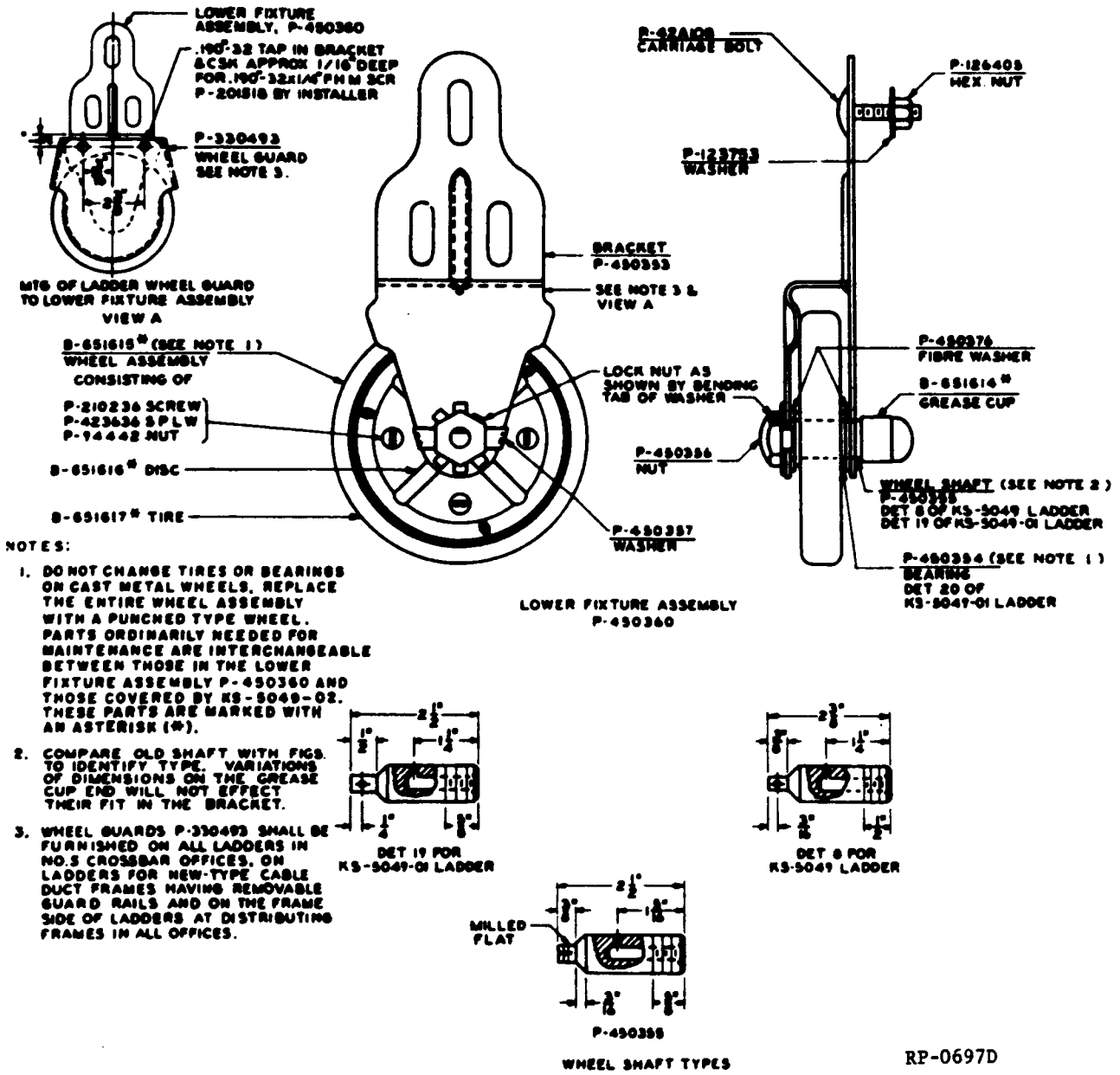


FIG. 4 LOWER FIXTURE ASSEMBLY, P-450360 AND WHEEL SHAFT TYPE

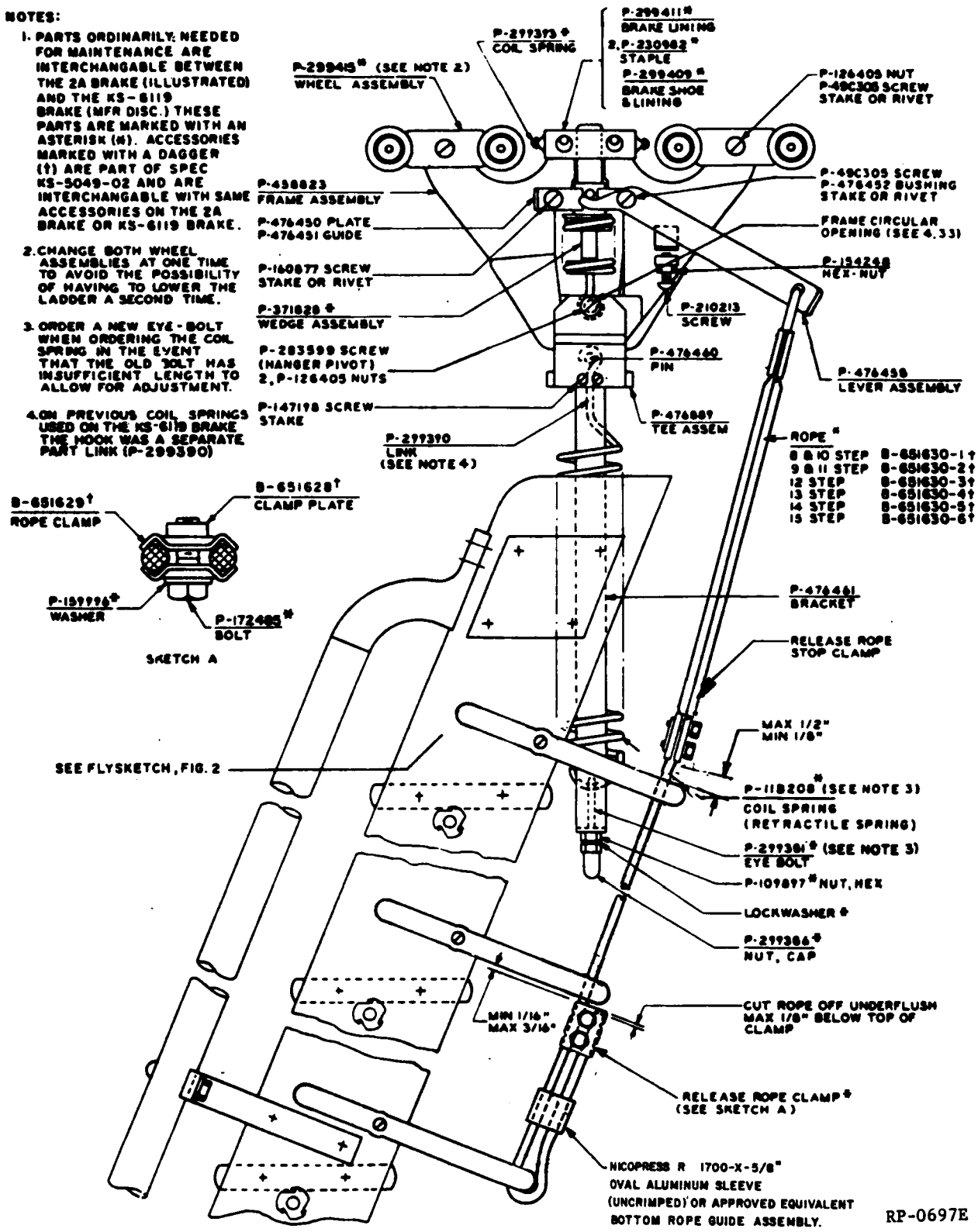


FIG. 5 2A ROLLING LADDER BRAKE AND ACCESSORIES (SEE NOTE 1)

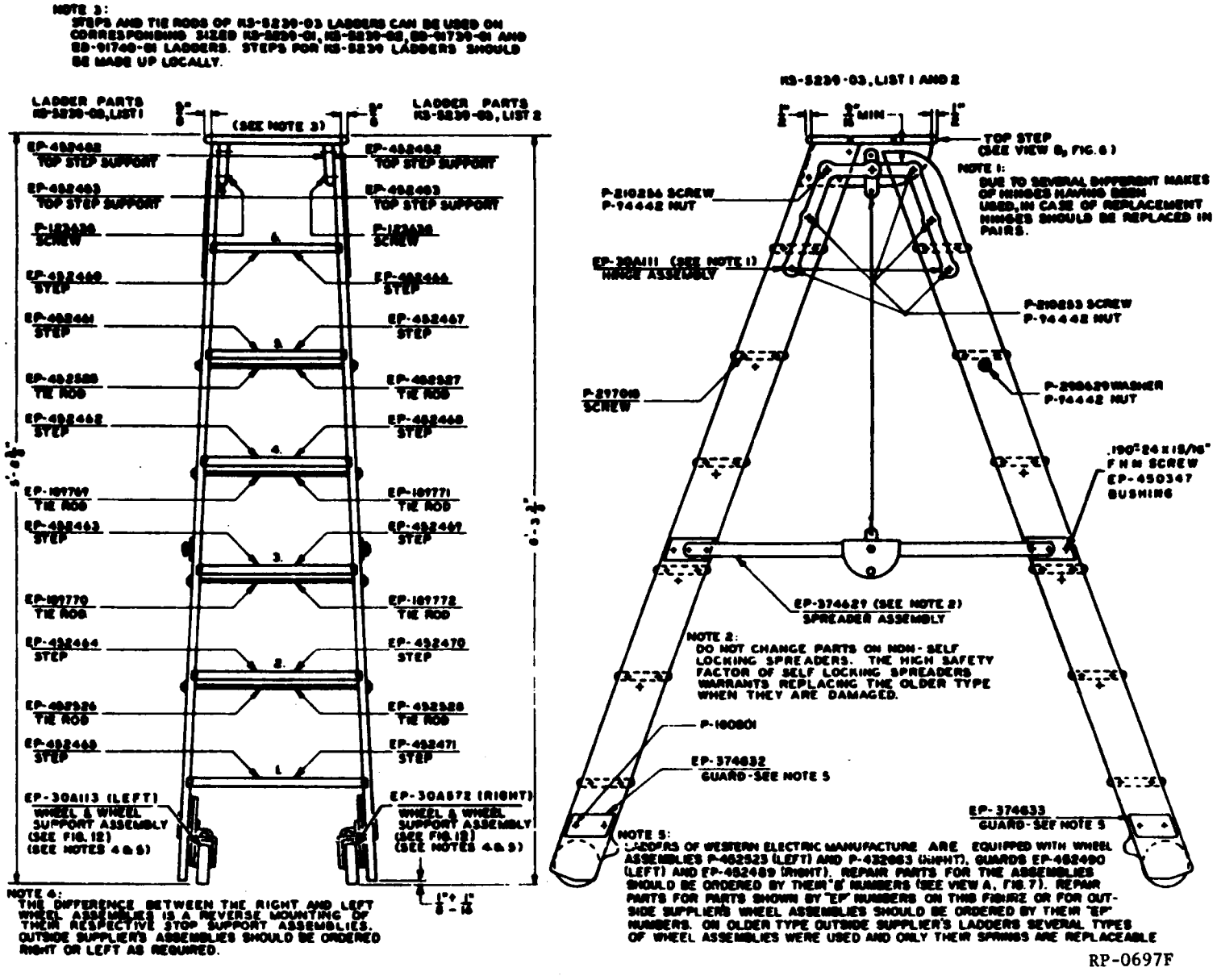
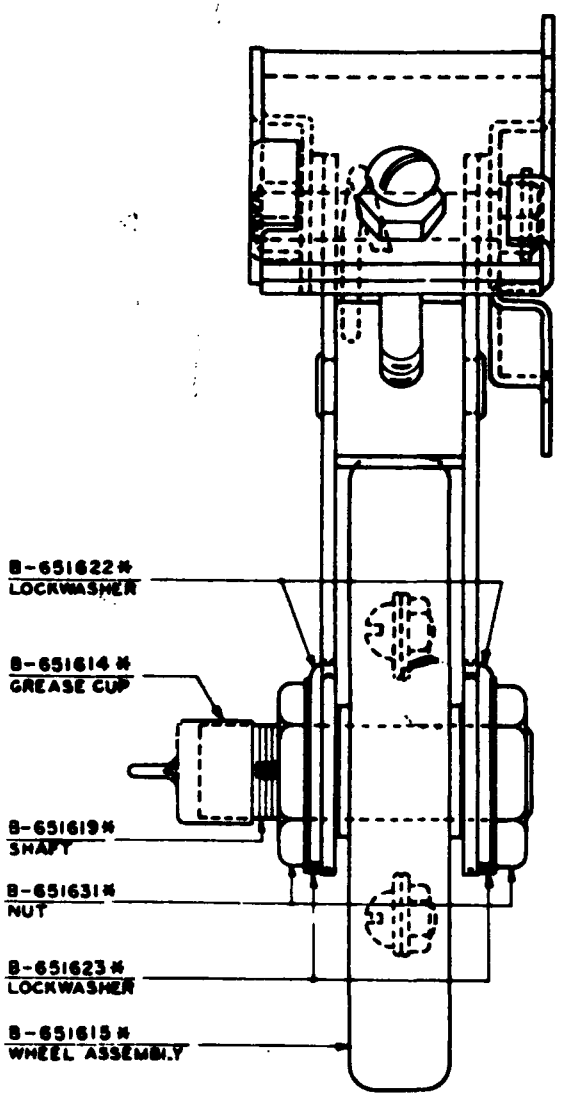
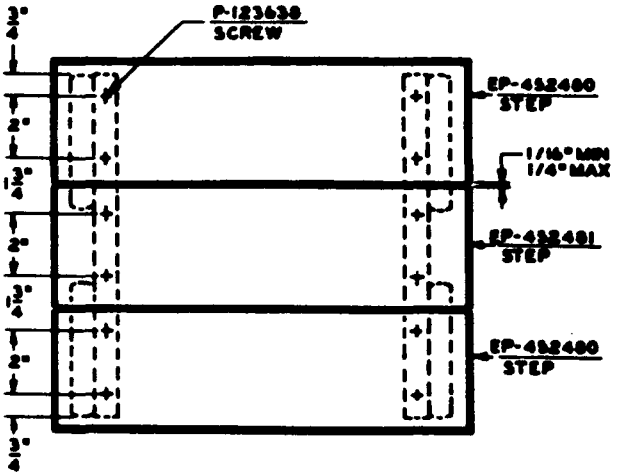


FIG. 6 PORTABLE-TYPE ROLLING LADDER



WHEEL & WHEEL SUPPORT ASSEMBLY
P-452523(LEFT)-P-432663(RIGHT)
VIEW A



VIEW B

NOTE:

PARTS ORDINARILY NEEDED FOR MAINTENANCE ARE INTERCHANGEABLE BETWEEN THOSE MANUFACTURED BY WESTERN ELECTRIC AND THOSE COVERED BY KS-5049-02. THESE PARTS ARE MARKED WITH AN ASTERISK (*).

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FIG. 7 VIEWS OF PORTABLE-TYPE ROLLING LADDER

NOTES:

1. DUE TO THE NATURE OF THEIR CONSTRUCTION, CHANGE PLATFORM ASSEMBLIES AS A UNIT.
2. LADDERS OF WESTERN ELECTRIC MANUFACTURE ARE EQUIPPED WITH WHEEL ASSEMBLIES P-452823 (LEFT) AND P-452824 (RIGHT) AND P-452825 PLATES. THESE PARTS SHOULD BE ORDERED BY THEIR "P" NUMBERS (SEE VIEW A, FIG. 6). REPAIR PARTS SHOWN ON THIS FIGURE BY "EP" NUMBERS OR PARTS FOR OUTSIDE SUPPLIERS WHEEL ASSEMBLIES SHOULD BE ORDERED BY THEIR "EP" NUMBERS. ON OLDER TYPE OUTSIDE SUPPLIERS LADDERS, SEVERAL TYPES OF WHEEL ASSEMBLIES WERE USED AND ONLY THEIR SPRINGS ARE REPLACEABLE.
3. LOWER FIXTURE ASSEMBLY P-33A388 IS DRILLED AND TAPPED FOR MOUNTING WHEEL GUARD P-330488. WHEN WHEEL GUARD IS TO BE MOUNTED ON LOWER FIXTURE ASSEMBLY P-480880 THE FIXTURE ASSEMBLY MUST BE DRILLED AND TAPPED BY THE INSTALLER AS SHOWN IN VIEW A, FIG. 3.
4. CHANGE BOTH TROLLEY WHEEL TRUCK ASSEMBLIES AT ONE TIME TO AVOID HAVING TO LOWER THE LADDER AGAIN IN THE NEAR FUTURE.
5. WHEN TIE RODS P-480348, P-48349 AND P-480350 ARE NOT AVAILABLE, THREADED RODS P-452668, P-452669 AND P-452667 RESPECTIVELY MAY BE SUBSTITUTED.

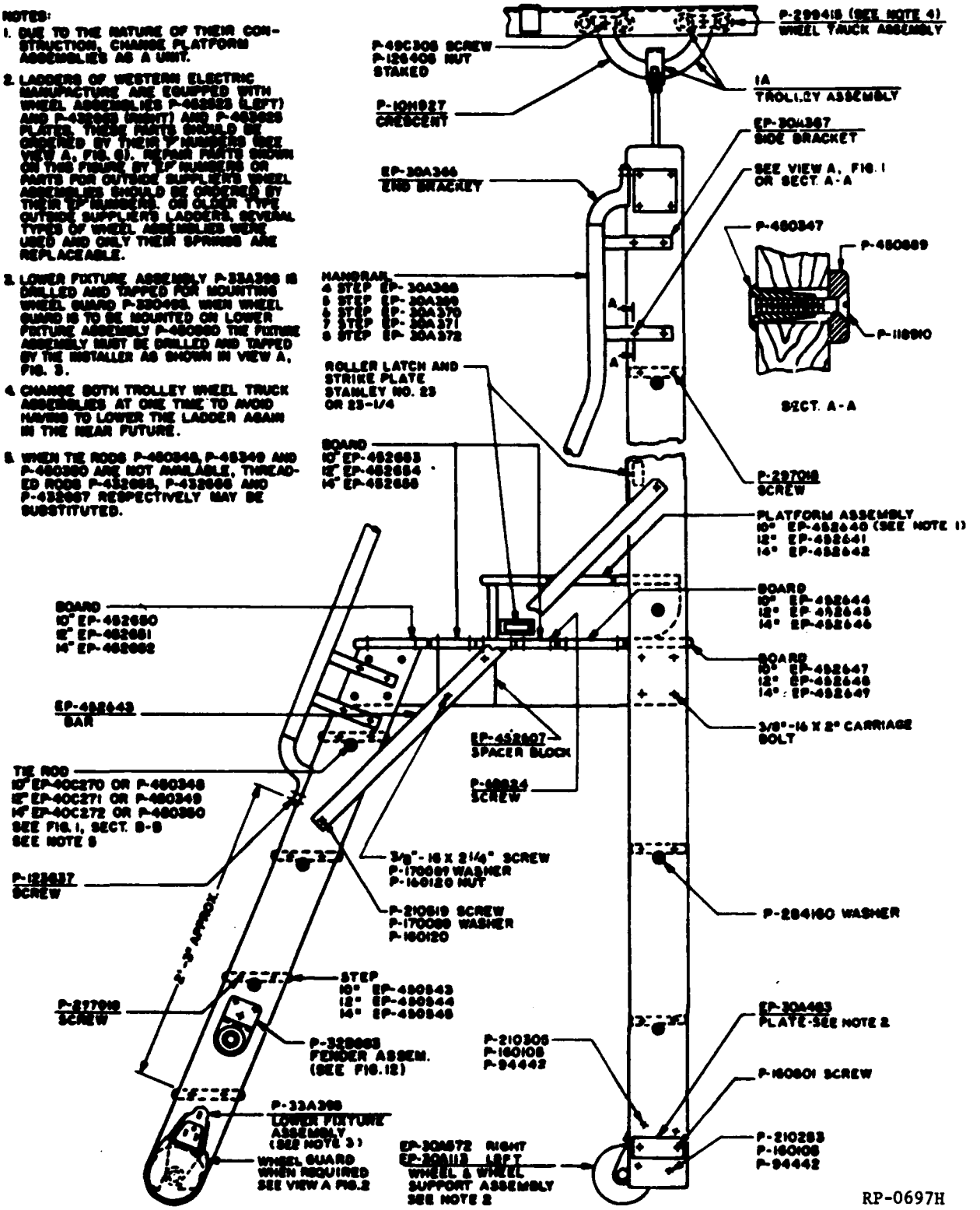


FIG. 8 PLATFORM-TYPE ROLLING LADDER

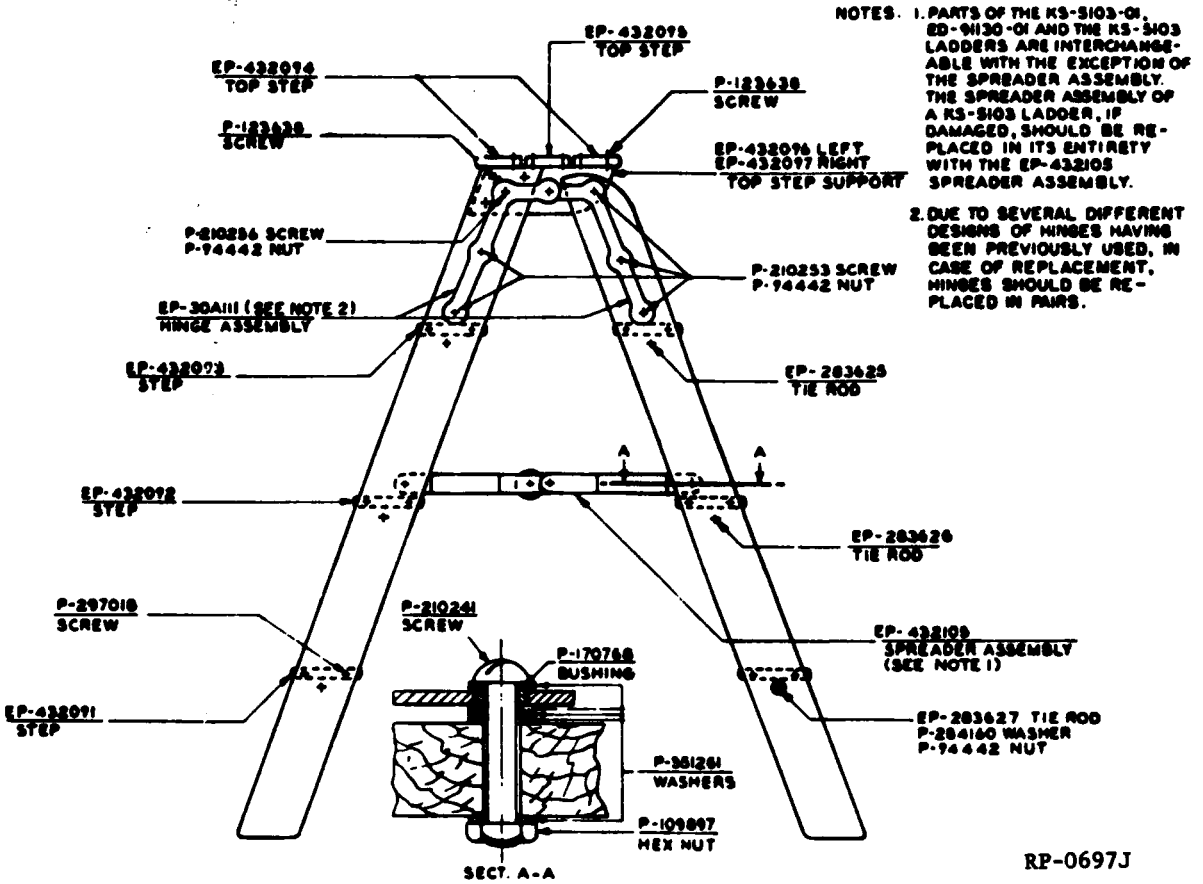


FIG. 9 FOUR-FOOT PORTABLE STEPLADDER (SEE NOTE 1)

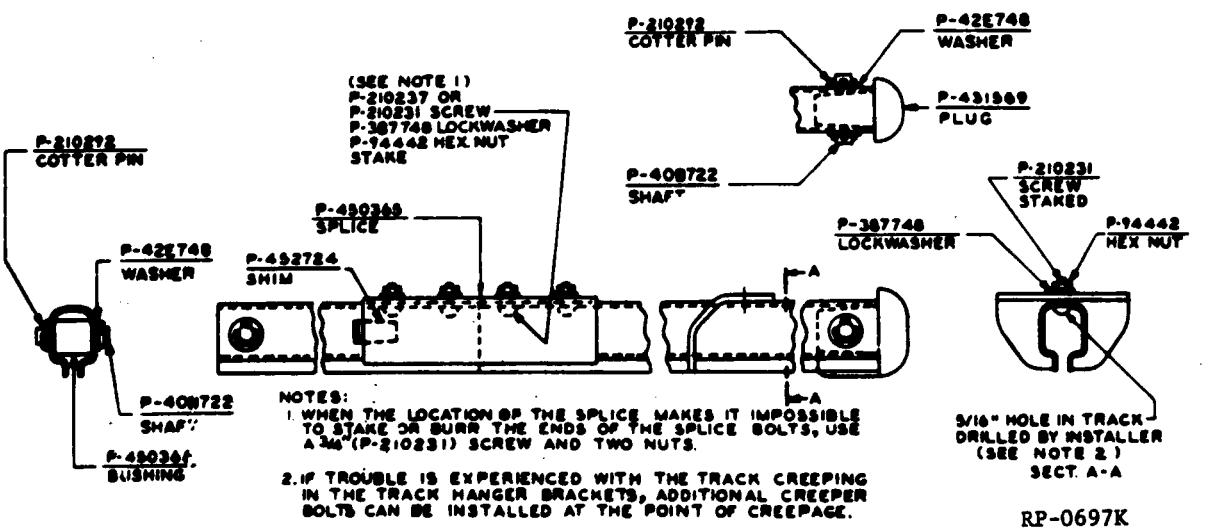


FIG. 10 LADDER STOP-LADDER TRACK SPLICE-LADDER TRACK PLUG-CREEPER BOLT

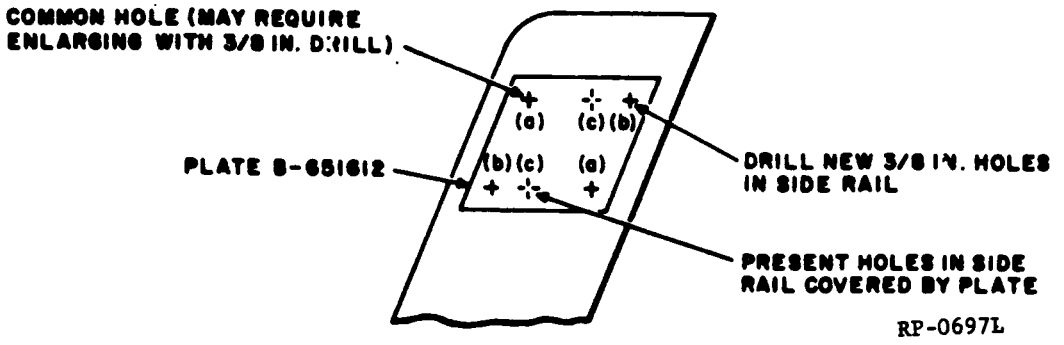


FIG. 11 MODIFICATION OF SIDE RAILS OF KS-5049-01 ROLLING LADDER FOR TOP STEP REPLACEMENT (PAR. 3.21)

NOTES:
1. WHEN ORDERING COMPLETE WHEEL ASSEMBLIES, EP-30A572 SHALL BE ORDERED FOR RIGHT SIDE AND EP-30A113 FOR THE LEFT SIDE.

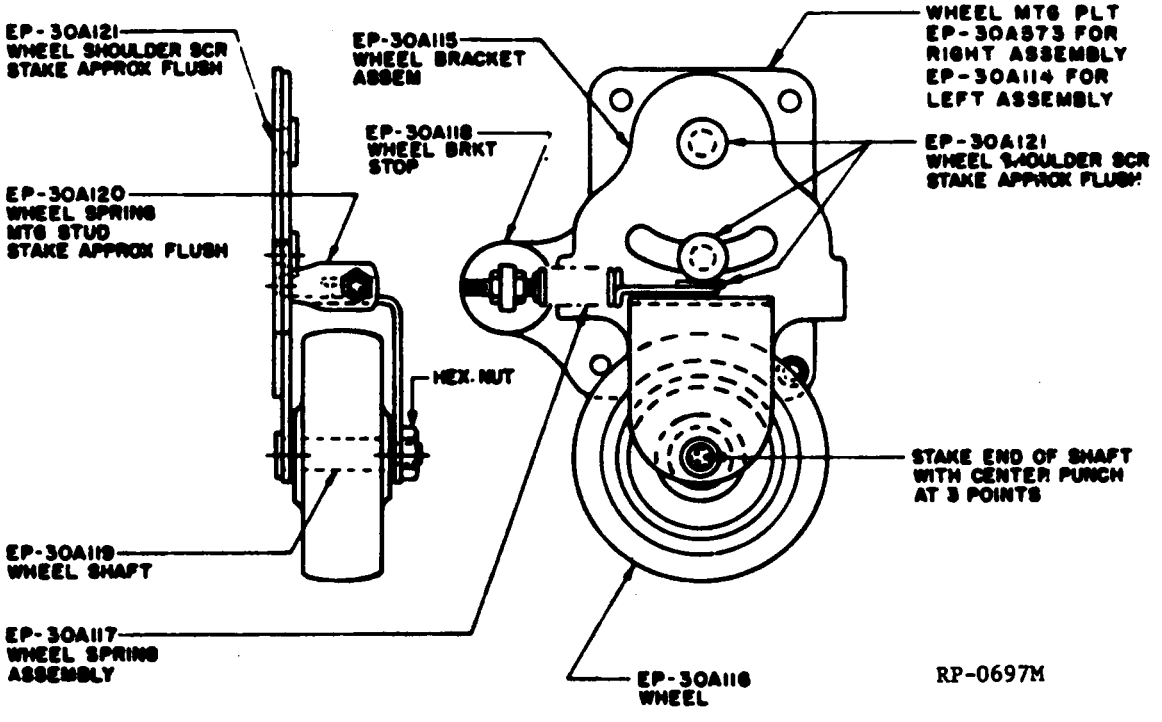
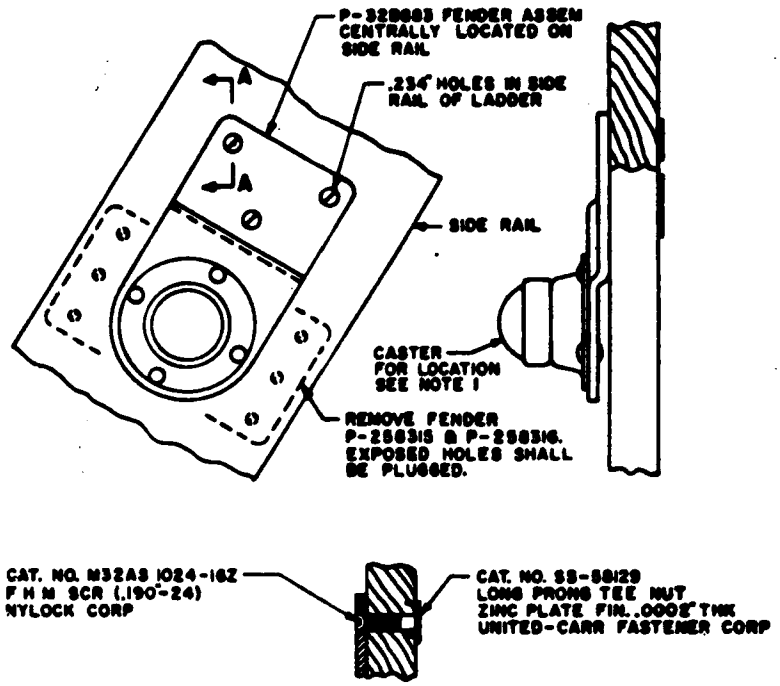


FIG. 12 PLATFORM AND PORTABLE-TYPE ROLLING LADDER WHEEL ASSEMBLIES



NOTES:
1. FENDER ASSEMBLY SHALL BE LOCATED ON THE SIDE RAIL ADJACENT TO THE GUARD RAIL WITH THE CASTER CONTACTING THE CENTER OF THE GUARD RAIL.

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FIG. 13 REPLACING FENDER ASSEMBLY

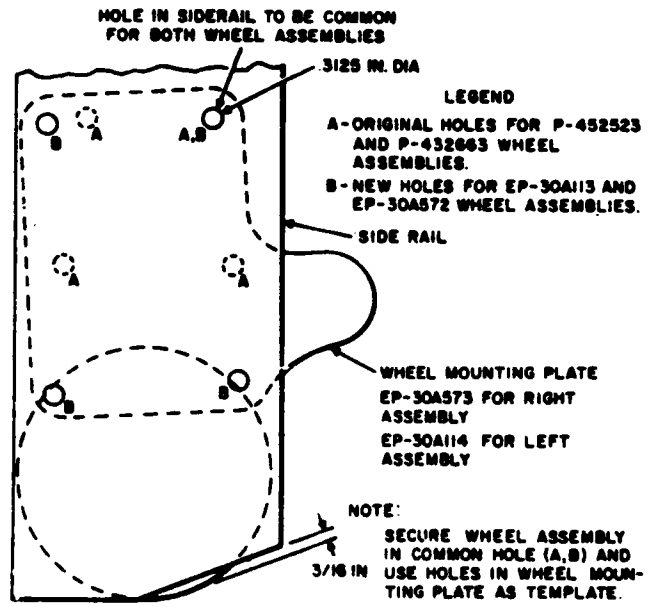

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FIG. 14 MODIFICATION OF SIDE RAILS OF PORTABLE-TYPE ROLLING LADDER FOUR WHEEL ASSEMBLY REPLACEMENT (PAR. 3.31)