

LADDERS

B AND C COMBINATION

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1. GENERAL

1.01 This section covers the description and operation of the B and C combination ladders. The ladders may be used as a 7-foot stepladder or as a maximum 11-foot extension ladder and are designed to support one man.

1.02 This section is reissued to add the C combination ladder which has been designed as a replacement for the B combination ladder. The B ladder will be retained in the superseded part of this section due to the large number in use.

2. PRECAUTIONS

2.01 Inspect ladder for cracks, splits, etc, in rungs and side rails. Make sure braces, hinge rod, brackets, hooks, spreaders, sliding sleeves, locking pins, and other hardware are not

defective, are securely attached, and are in good working condition.

2.02 Remove small splinters and rough places on rungs and side rails with sandpaper or file. If defects cannot be corrected readily, ladder shall be replaced.

2.03 Do not drop or overload the ladder. This may cause hidden defects in ladder which could result in subsequent breakage of rungs or side rails under normal loads.

2.04 Before climbing ladder in any position, make certain that footings are level and secure.

2.05 When used in the extended position, surface upon which top of the ladder rests must be rigid and have ample strength to support ladder, and load.

2.06 Place extension ladder at an angle so that the base will be 1/4 of the working length of the ladder (the length along the ladder between the foot and top support).

2.07 Do not stand higher than third rung from top on extension ladder, nor higher than second rung from top on stepladder.

2.08 To avoid throwing ladder off balance the craftsman shall not extend his outside shoulder more than 12 inches beyond side rail.

2.09 See Section 081-740-105 for additional safety precautions when using ladders.

SECTION 081-741-100

3. DESCRIPTION

3.01 The C combination ladder (Fig. 1) is made up of two sections (one wide, one narrow), each 7 feet long. The top of the narrower, extensible section is equipped with a pole rest brace which permits resting of the ladder, when extended, against a pole. Two hooks are provided on this section to engage it to the rungs of the wider section and secure the ladder in either a closed or extended position.

3.02 The C combination ladder will accept the B ladder tread, AT-8656 (Fig. 2), which will provide a greater surface for the feet of the craftsman when prolonged standing on the ladder is required.

4. USE

4.01 To use the C combination ladder as an extension ladder, start from a closed or folded position and slide the narrow section up to the desired height, and place the two bottom hooks of the narrow section over the rung of the wide section (Fig. 3).

4.02 To use the C combination ladder as a stepladder, spread the two sections apart at the bottom. The bracket/hinge assembly secures the ladder in the open position and is locked into position by inserting locking pins (Fig. 4).

4.03 To close the C combination ladder, remove locking pins, and place in holes in the top rung. Then close and place bottom hooks of narrow section over bottom rung of wide section.

5. SUPERSEDED B COMBINATION LADDER

5.01 The B combination ladder is made up of two sections (one wide, one narrow), each 7 feet long. The wide section has guide brackets attached to the top of each side rail. The top of the narrow section has a hinge rod. When the rod is engaged with the brackets, a hinge is formed for the top of the stepladder.

5.02 Steel braces, hinged at the midpoint on the wide section and attached to sliding sleeves on the narrow section, form:

- Spreaders for stepladder.
- Guides for side rails in extension ladder position.



Fig. 1—C Combination Ladder (AT-8655)

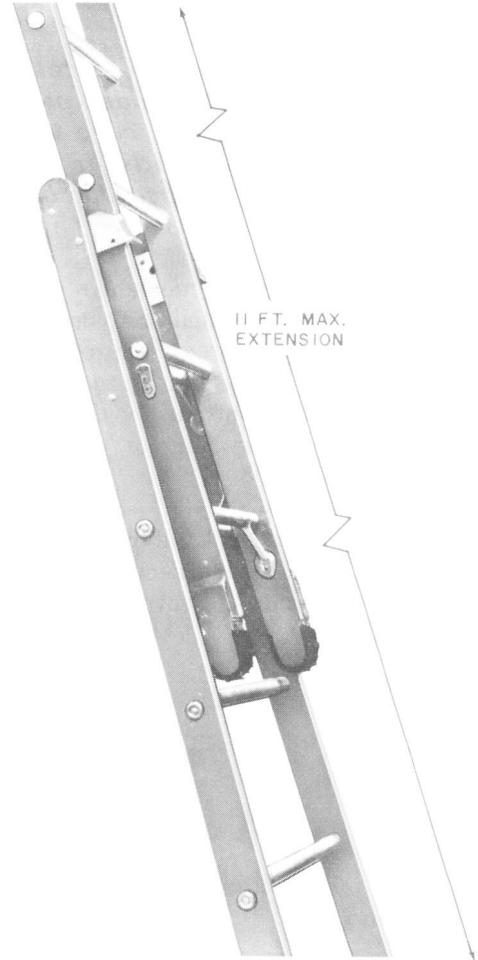


Fig. 3—C Combination Ladder in Extended Position



Fig. 2—B Ladder Tread (AT-8656)

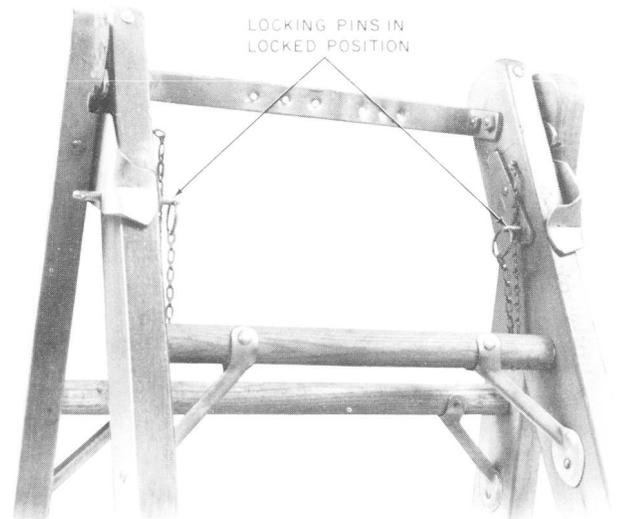


Fig. 4—Locking Pins in Locked Position

USE OF B COMBINATION LADDER

Caution: *When opening or closing B combination ladder (stepladder position), or using as an extension, care must be taken not to pinch hands or fingers between side rails and spreader bar and sleeves.*

5.03 To use B combination ladder as an extension ladder, start from a closed or folded position as shown in Fig. 5. Disengage hinge rod from hook brackets, slide narrow section up to the desired height, and place the two bottom hooks of narrow section over the appropriate rung of wide section. (Fig. 6).

Note: Do not place hooks above fourth rung from the bottom of wide section. This will maintain the required 3-foot overlap of sections.

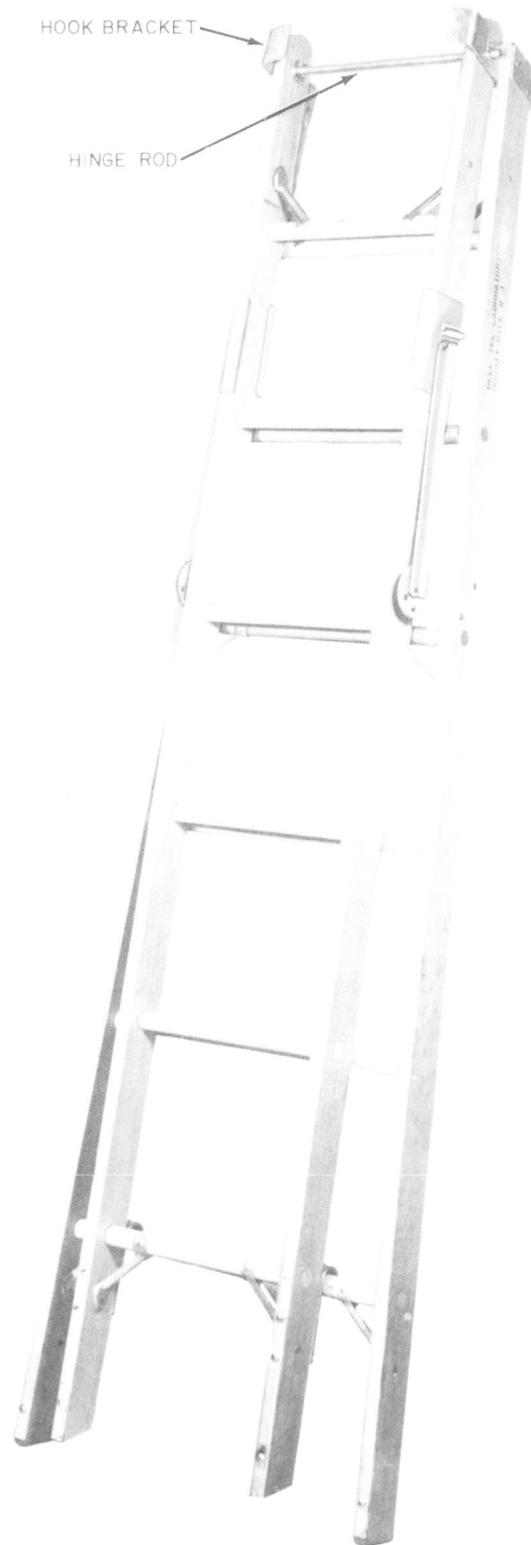


Fig. 5—B Combination Ladder (AT-7662) in Closed Position



Fig. 6—B Combination Ladder in Extended Position

5.04 To lower extension ladder, reverse procedure in 5.03.

5.05 To use B combination ladder as a stepladder, be sure hinge rod is *firmly* engaged with hook brackets. Spread the two sections apart at the bottom. As this is done, the sleeves will slide down the side rails of narrow section. Thus, the spreaders should be in a horizontal position when the ladder is fully open. Stops welded to the sleeves prevent the spreaders from going below this position.

5.06 To close B combination ladder from stepladder position, grasp top portion of sleeves above the hand guard, slide sleeves up side rails of narrow section until ladder is closed, and place bottom hooks of narrow section over bottom rung of wide section.