

## HOISTS AND SLINGS

### DESCRIPTION

### TOOLS

#### 1. GENERAL

1.01 This section describes Bell System noncoded hoists and slings.

1.02 This section is reissued to add the RATCLIFF\* H-80-1/4 ton hoist and LIFTEX\* Lift-It 5PL91-3315 sling, and to update the practice to standard format. Revision arrows are used to emphasize significant changes.

1.03 The following is a list of tools that have been Mfr Disc. with their replacements.

TOOLS	REPLACEMENT
B Chain Hoist	-
R-1279	-
R-1496	-
R-1844	R-1497
AT-7885	AT-8438

#### 2. DESCRIPTION OF TOOLS

2.01 **R-1497:** The R-1497 hoist consists of a block and tackle with two sheaves in upper block, one in lower, and sufficient 1/2-inch rope for a 16-foot lift. Minimum distance between hooks is 16-1/2 inches. Maximum load is 500 pounds. The R-1497 hoist does not have safety hooks.

2.02 **AT-8438:** The AT-8438 E chain hoist (Fig. 1) is available in 1-1/2 and 3-ton capacities. It consists essentially of an operating handle, a steel housing containing a load sheave, ratchets, pawls,

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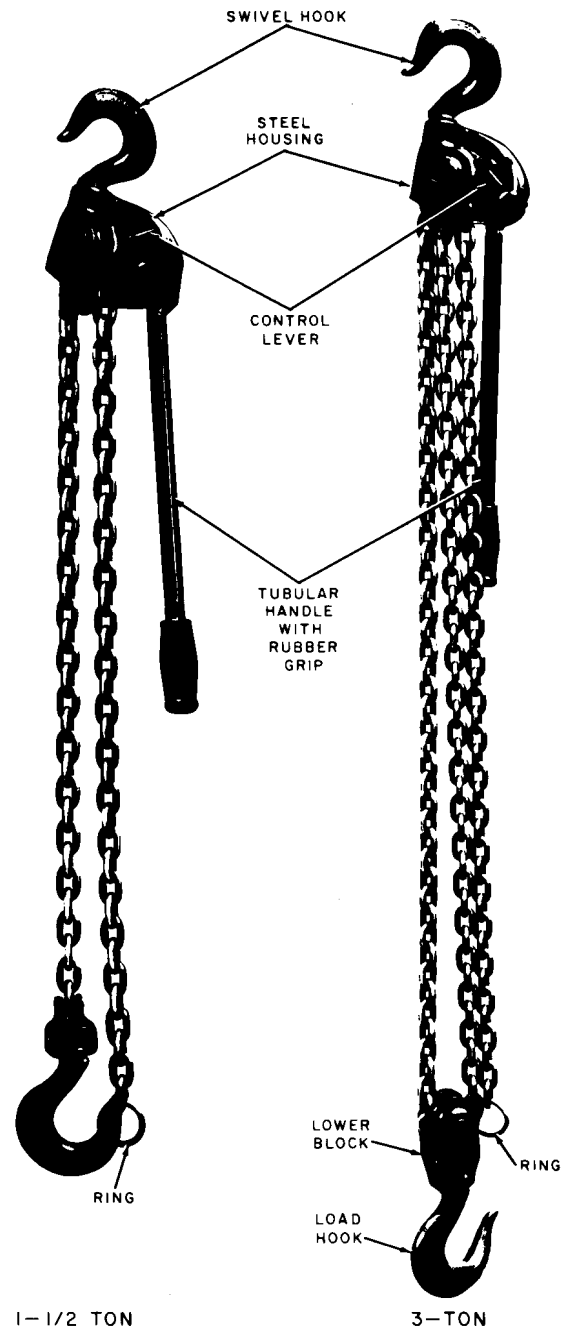


Fig. 1—AT-8438 E Chain Hoist

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and a top swivel hook, together with a welded link chain terminating in a swivel load hook. A lever on one side of the hoist housing controls the direction of travel of the chain, when under load, as well as free running of the chain in either direction under no load. In the 3-ton hoist, the chain is double reeved through a 1-sheave block to which the load hook is attached. The specifications for both hoists are included in Table A. ♦The hoist does not have safety hooks.♦

**2.03 ♦“RATCLIFF” H-80-1/4:** The RATCLIFF H-80-1/4 ton hoist (Fig. 2) consists essentially of a welded link operating chain, a steel housing containing a double reeved load sheave, ratchets, pawls, and a top swivel safety hook, together with a welded link chain terminating in a swivel load safety hook. A lever on one side of the hoist housing controls the direction of travel of the chain, when under load, as well as free running of the chain in either direction under no load.♦

**2.04 ♦LIFTEX Lift-It 5PL91-3315:** The LIFTEX Lift-It 5PL91-3315 sling (Fig. 3) is constructed of two nylon webbed straps equipped with safety load hooks. The sling is 26 inches in length and rated at 1/4-ton capacity.♦

**TABLE A**  
**E CHAIN HOIST DATA**

FEATURE	CAPACITY	
	1-1/2 TON	3 TON
Safe Load Limit (Pounds)	3000	6000
Average Pull on Handle for Capacity Load (Pounds)	62	65
Minimum Distance Between Hooks (Inches)	10-3/8	15-1/2
Maximum Lift (Inches)	55-1/2	54
Handle Length (Inches)	17	17
Increment of Lift or Lowering (Inches)	5/16	5/32
Hook Openings (Inches)	1-1/4	1-3/8
Net Weight (Pounds)	15	22

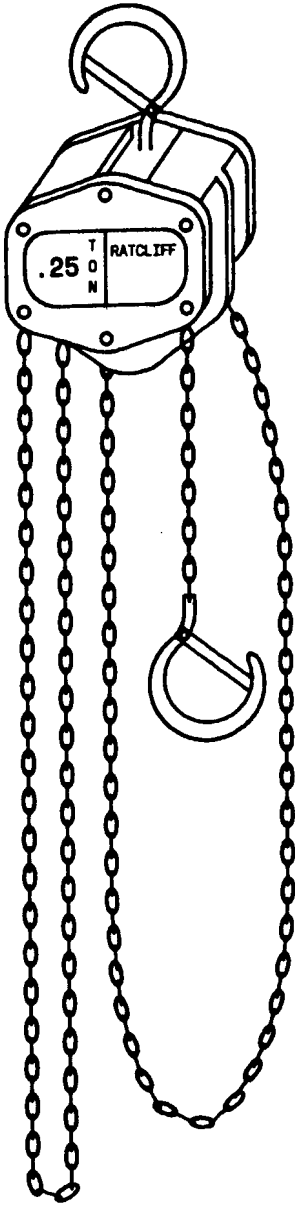


Fig. 2—RATCLIFF H-80-1/4 Ton Hoist

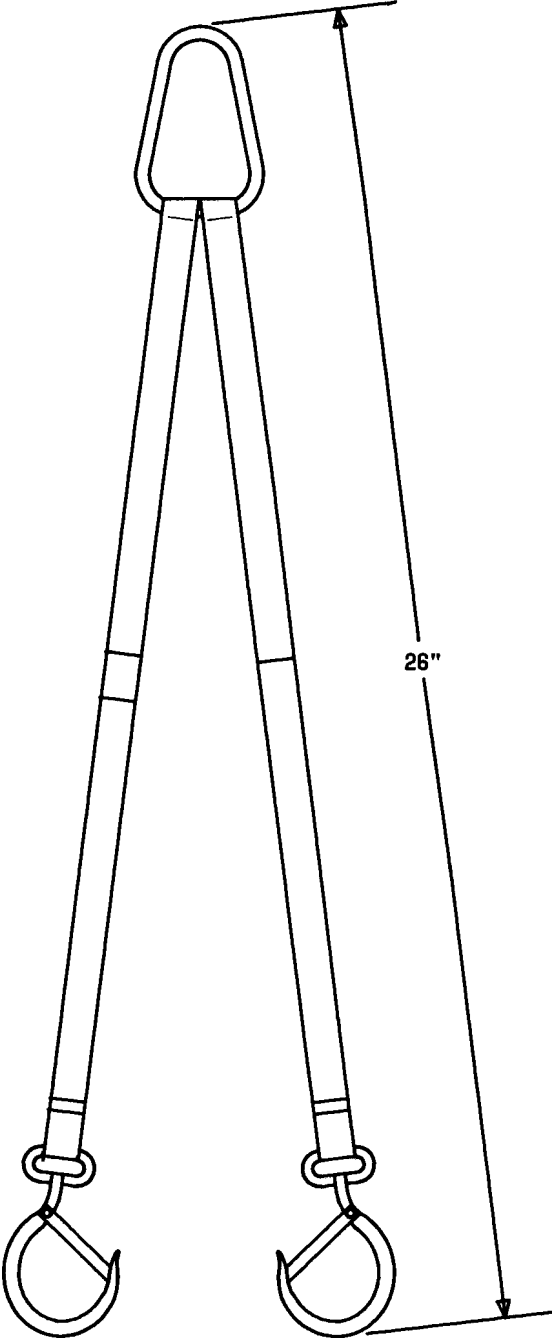


Fig. 3—LIFTEX Lift-It 5PL91-3315 Sling