



INSTRUCTION MANUAL FOR Model F Beam Grab

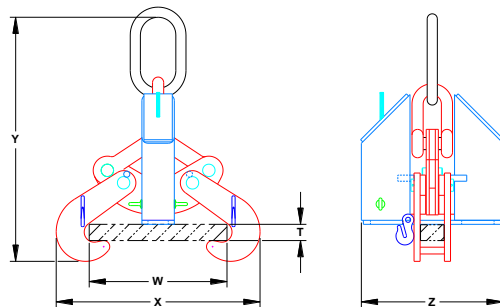
Your new Model F Beam Grab only supports loads up to its rated capacity when loaded correctly. The Model F Beam Grab is a load supporting lifter complying with ASME B30.20 BTH-1 Design Category B and Service Class 0, which is for specific tasks that withstand forces based on the unit's rated capacity. Use the following guidelines for your protection, and for optimal operation of your equipment. The safety precaution list below is not all-inclusive. The owner or user is responsible for understanding and acting according to industry standards and any other local, city, state, and federal regulations. Refer to the Manufacturer's Instruction Manual for product and safety information on other attachments, components, or both used with your lifting equipment.

- DO NOT** EXCEED RATED CAPACITY.
- DO NOT** lift or support people.
- DO NOT** lift over people.
- DO NOT** lift higher than necessary.
- DO NOT** leave suspended load unattended.
- DO** inspect the lifter for damage or excess wear before each lift. Check for structural bending and cracks, excess wear at load points and pins, cracked or broken welds, or deformed hardware. If inspection reveals any defect(s), remove the lifting device from service, and tag "Out of Service". Immediately notify your Safety administrator or Supervisor to contact The Caldwell Group regarding any defect.
- DO** contact The Caldwell Group to replace worn or damaged tags and/or decals.

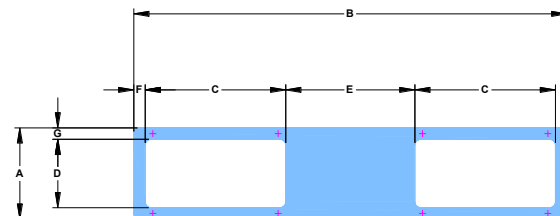
Loading Operation

- Know your Model F specifications:

YOUR MODEL NUMBER: (indicated with ✓)	RATED CAPACITY (tons)	MODEL F DIMENSIONS (inches)			FLANGE WIDTH (inches)	FLANGE THICKNESS (inches) T		BASE PLATE DIMENSIONS (inches)							WEIGHT (lbs)
		X	Y	Z		MIN.	MAX.	A	B	C	D	E	F	G	
<input type="checkbox"/> Model F-5	5	15.70	22.70	11.63	4	0.25	0.25	3.00	11.63	3.00	2.00	4.63	0.50	0.50	68
					5	0.25	0.38								
					6 thru 10	0.25	1.00								
					7	0.50	0.75								
<input type="checkbox"/> Model F-15	15	25.15	30.10	17.50	8	0.50	1.00	4.00	17.00	4.00	2.50	7.25	0.88	0.75	187
					9	0.50	1.25								
					10	0.50	1.50								
					11 thru 17	0.25	2.00								
<input type="checkbox"/> Model F-25	25	45.24	44.77	24.50	16 thru 17	1.25 *	3.00	5.50	24.25	6.00	4.00	9.75	1.25	0.75	594
					18 thru 24	1.00	3.00								
<input type="checkbox"/> Model F-35	35	61.44	52.81	28.50	16 thru 18	2.25 *	4.00	6.00	28.50	9.25	4.50	8.50	0.75	0.75	833
					20 thru 22	2.00	4.00								
					24	1.75	4.00								
					26	1.25	4.00								
					28 thru 36	1.00	4.00								



Model F Beam Grab
Dimensions

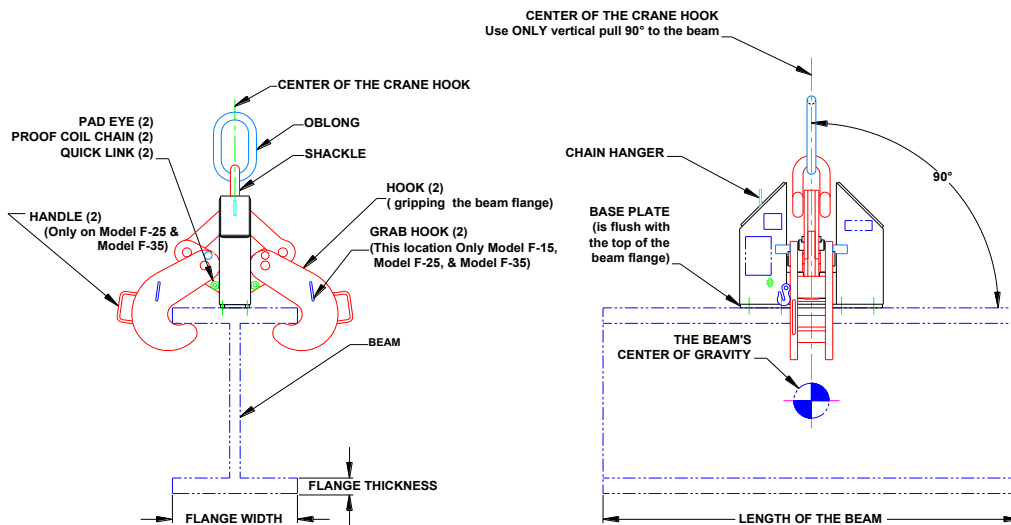
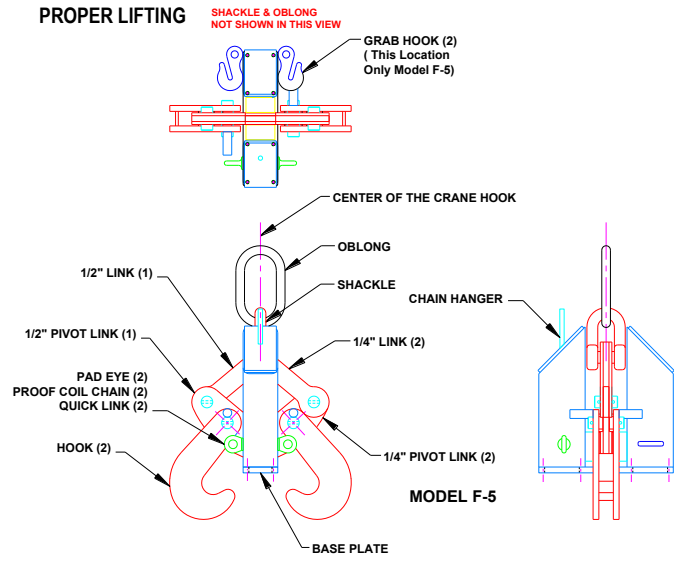


Base Plate
Dimensions

INSTRUCTION MANUAL FOR Model F Beam Grab

Loading Operation

2. Know the beam specifications, the beam weight, the flange width, and the flange thickness.
3. Do the calculation:
Beam Grab rated capacity is equal to or greater than the weight of the beam.
4. Lift ONLY beams within the rated capacity of your Model F Beam Grab (see pg 1).
5. Lift beams with only flange width and flange thickness specific for your Model F Beam Grab (see pg 1).
6. Attach the Model F Beam Grab to the Crane Hook.
7. Raise the Model F Beam Grab above the beam.
8. Slowly lower the Model F Beam Grab onto the beam.
9. Center the Model F Beam Grab in-line with the beam's center of gravity (lengthwise).



10. Pull the hooks out and guide them under the beam flange.
11. Use the handles on Models F-15, F-25, and F35 to pull the hooks out and guide them under the beam flange.
12. Make adjustments until the hooks are firmly gripping the beam flange.
13. Make certain the Base Plate is flush with the top of the beam flange.

INSTRUCTION MANUAL FOR Model F Beam Grab

WARNING

Secure both Proof Coil Chains

The Model F must be firmly gripping the beam before securing the Proof Coil Chains. Before lifting or transporting a loaded Model F Beam Grab, securely attach the proof coil chain from the pad eye to the grab hook before lifting and transporting, preventing the Model F from slipping off the beam. **DO NOT** use Proof Coil Chain for lifting.

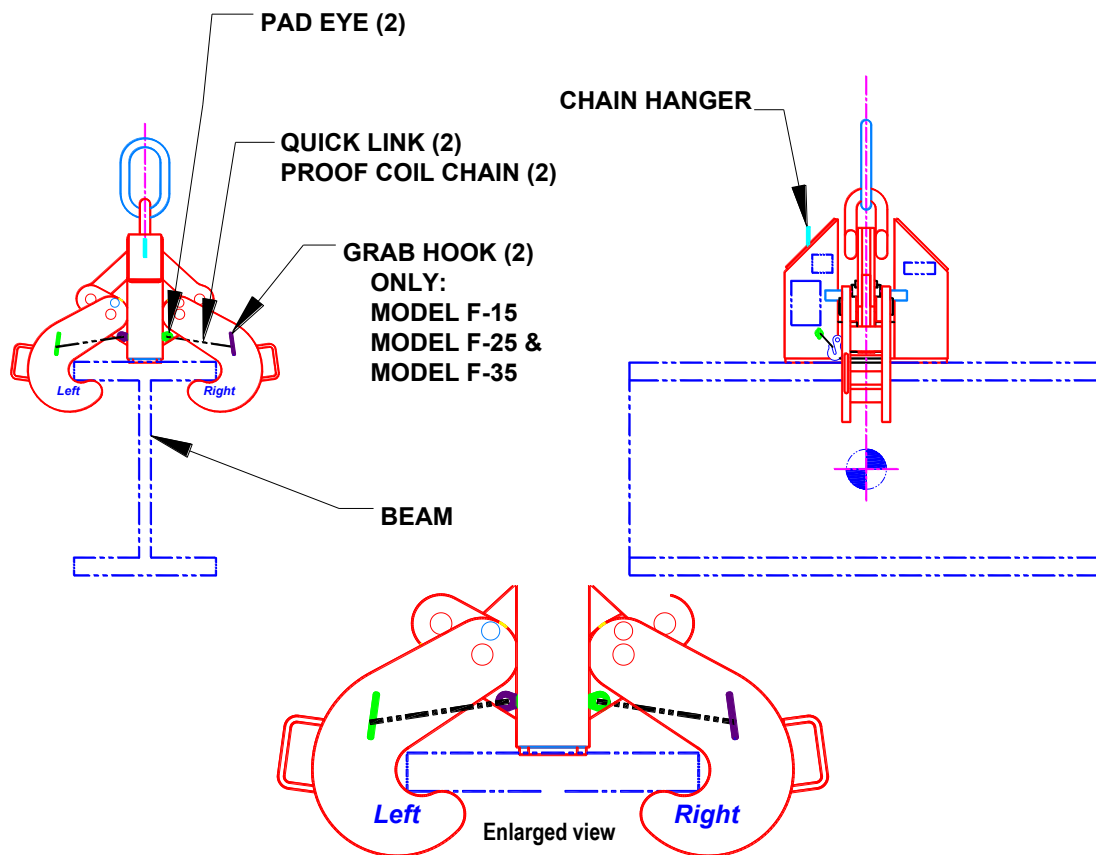
Proof Coil Chain Attachment

Model F-15

Model F-25

Model F-35

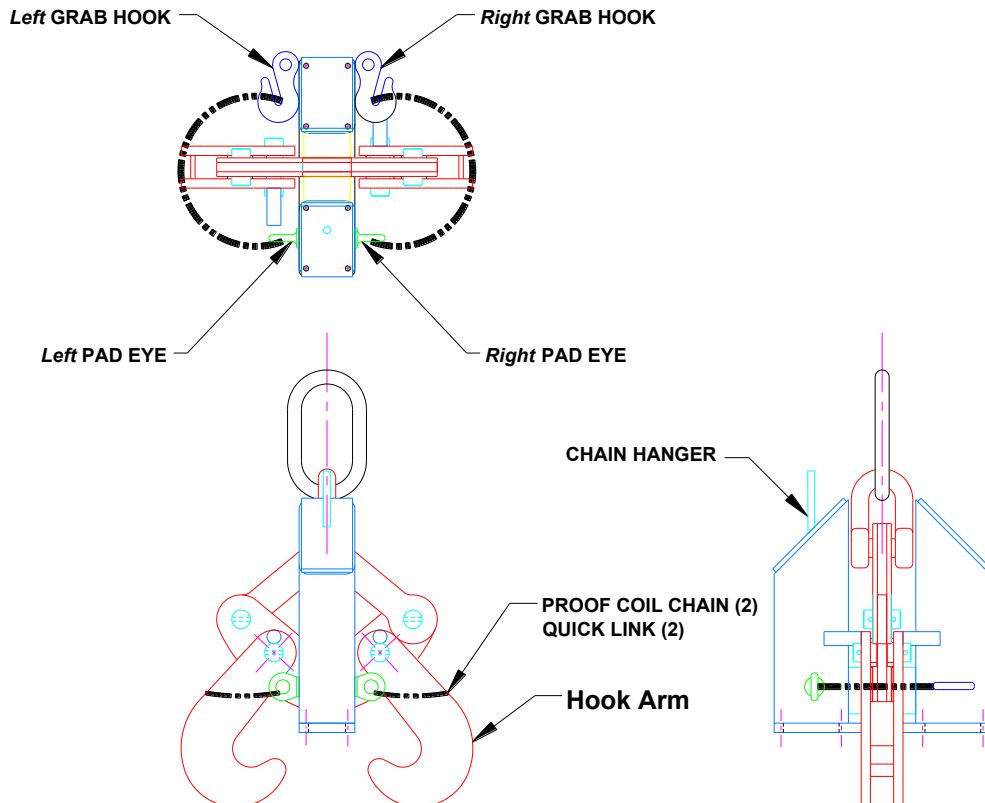
1. Snuggly pull the **Left** Proof Coil Chain, attaching it to the **Left** Grab hook.
2. Snuggly pull the **Right** Proof Coil Chain, attaching it to the **Right** Grab hook.
3. Expect slight slack in the Proof Coil Chain when attached to the Grab Hook.



INSTRUCTION MANUAL FOR Model F Beam Grab

Proof Coil Chain Attachment
Only Model F-5

MODEL F-5



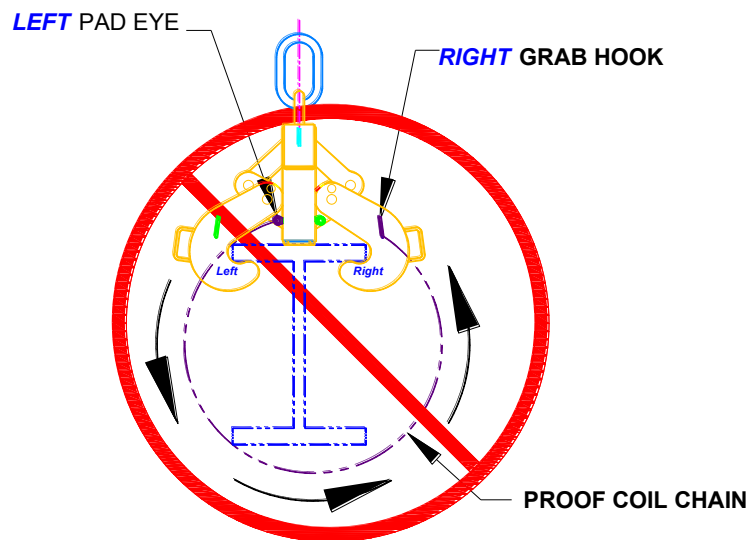
MODEL F-5

1. Snuggly pull the **Left** Proof Coil Chain, attaching it to the **Left** Grab hook, as shown above.
2. Snuggly pull the **Right** Proof Coil Chain, attaching it to the **Right** Grab hook, as shown above.
3. Expect slight slack in each Proof Coil Chain when attached to the Grab Hooks.

INSTRUCTION MANUAL FOR Model F Beam Grab

WARNING

Do NOT wrap and attach the Proof Coil Chain around the load.



Improper Proof Coil Chain Attachment

INSTRUCTION MANUAL FOR Model F Beam Grab

Perform a Test Lift

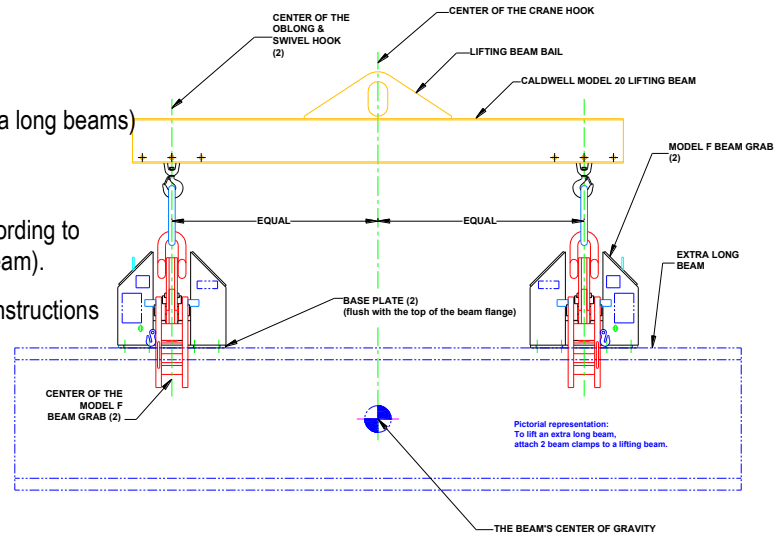
1. Perform a test lift of several inches.
2. **Verify the following for proper lifting:**
 - a. the load is properly balanced
 - b. the base plate is flush to the flange top
 - c. the hooks are firmly gripping the flange
 - d. the center of the Beam Grab is in-line with the center of the cranehook and the load's center of gravity
 - e. ensure the load can withstand forces applied by the lifter
 - f. both Proof Coil Chains are securely attached (on on each Grab Hook,
 - e. both Proof Coil Chains are securely attached (one on each Grab Hook, see pg 3-5).
3. DO NOT use the Model F to drag a load.
4. DO NOT use the Model F to pull a load.
5. DO NOT shock load the designated load during lifting and transporting.
6. Do NOT allow the lifter to make any contact with any objects, during loading, lifting, or transporting.
7. Bumping the lifter, loaded or unloaded causes excessive swinging.
8. **Use ONLY a vertical lift.**
9. The load must be level throughout the lift.

INSTRUCTION MANUAL FOR Model F Beam Grab

PROPER LIFTING

TWO Model F Beam Grabs (recommended for extra long beams)
FOR EACH MODEL F:

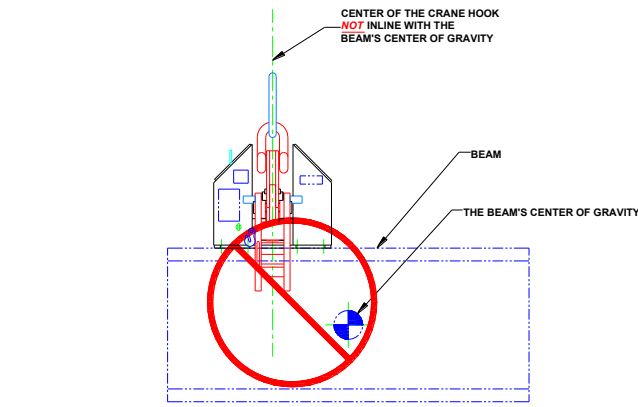
1. Repeat steps 1-5 (page 1-2)
2. Attach both Beam Grabs to the lifting beam (according to the manufacturer's instructions for your lifting beam).
3. Securely attach the Proof Coil Chain, using the instructions for your Model.
4. Perform a test Lift.



IMPROPER LIFTING

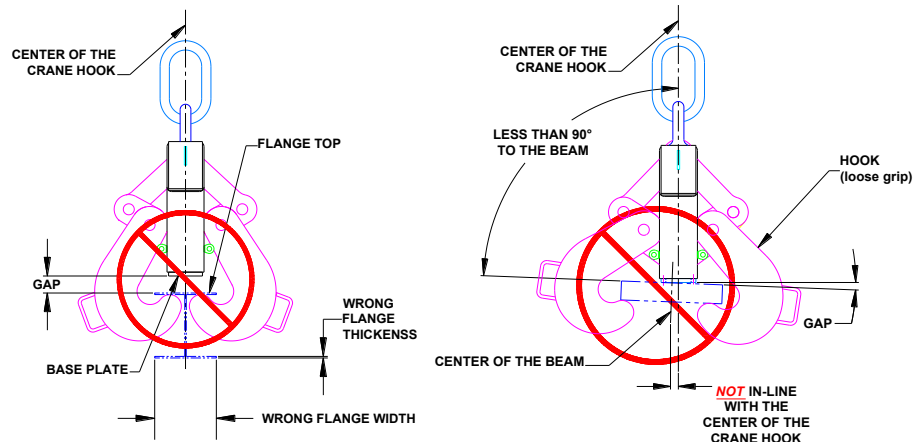
IMPROPER Lifting

1. **DO NOT** lift when the Center of the Crane Hook is **NOT** in-line with the Center of the Beam Grab and the load's Center of Gravity



2. **DO NOT** lift:

- a. The flange width and flange thickness is incorrect for your Model F Beam Grab (see chart on page 1).
- b. A gap is between the top of the beam flange and the bottom of the Base Plate.
- c. The angle of pull is less than or greater than 90 degrees.
- d. The Center of the Hook is **NOT** in-line with the center of the beam and the center of the Beam Grab.



MODIFICATIONS TO YOUR LIFTING EQUIPMENT WITHOUT PRIOR WRITTEN APPROVAL FROM
THE CALDWELL GROUP, INC. VOIDS YOUR WARRANTY.
REFER TO ASME 30.20 REGARDING LIABILITY OF REPAIRED OR MODIFIED LIFTERS.

WARNING

Load loss.

Lubricate ALL pins and moving parts weekly or as needed depending on the severity of use.

Inspection and Maintenance

I. A designated person shall inspect the Model F before initial use.

II. There are three types of inspections:

1. Every Lift: Inspection

the operator or designated person visually inspects the lifter before and during the lift

- a. check the surface of the load for debris
- b. verify the condition and operation mechanical parts

2. Frequent Inspection

the operator or designated person visually inspects the lifter (no records required)

- a. monthly—normal service
- b. heavy service—weekly to monthly
- c. severe service—daily to weekly
- d. special or infrequent service—a qualified person makes recommendations before and after each use

3. Periodic Inspection (required)

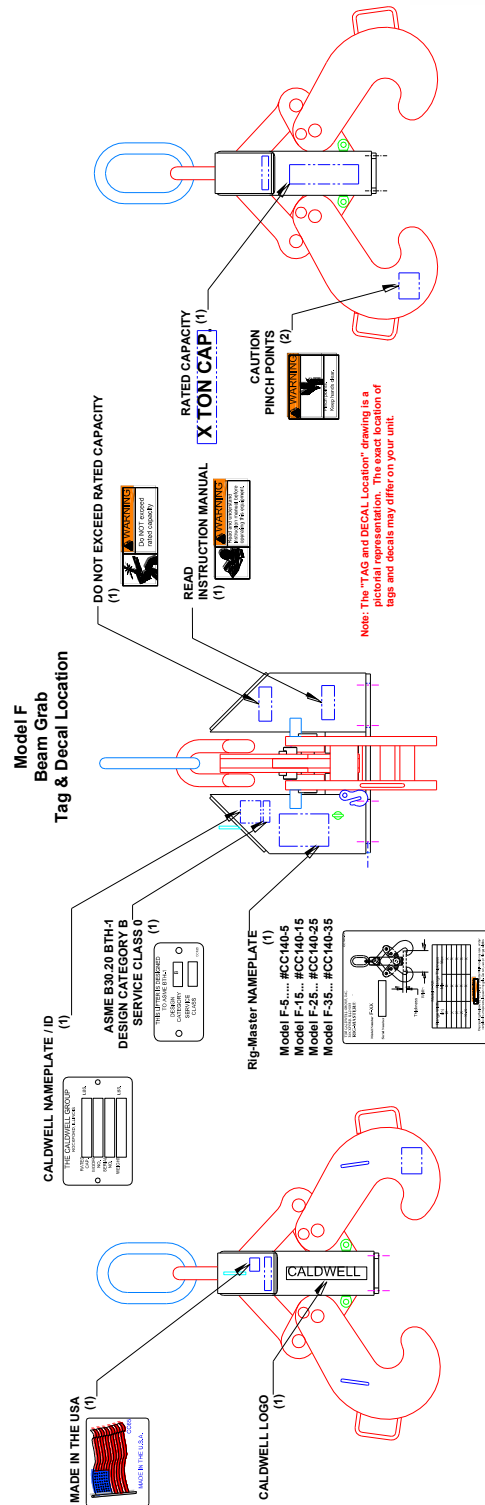
- a. qualified person makes dated records of external conditions
- b. annually—normal service
- c. semiannually—heavy service
- d. quarterly—severe service

III. Inspect for:

1. cracks, deformation, excessive wear, loose, missing:

- a. structural members
- b. mechanical parts
- c. hoist hooking points
- d. proof coil chain
- e. all pins
- f. oblong
- g. shackle
- h. fasteners
- i. stops
- j. identification tag and product safety labels

If inspection reveals a defect(s), remove the Model F from service, and tag “Out of Service”. Immediately notify your Safety Administrator or Supervisor to contact The Caldwell Group regarding any defect.



When the Identification Tag or Product Safety Labels are damaged or missing, remove the unit from service, tagging the unit with an "OUT of SERVICE" tag; and contact The Caldwell Group for complimentary replacements.