



Operating Instructions and Parts Manual JCP Series Cable Pullers





3.0 Safety warnings

1. Read and understand owner's manual before operating cable puller.
2. Do not exceed rated capacity.
3. Supporting structure used with this device must provide adequate support to handle all puller operations plus the weight of the puller and attached equipment. If in doubt, consult a registered structural engineer.
4. Never use handle extensions (cheaters).
5. Do not use with twisted, kinked or damaged wire rope.
6. Do not use if cable puller is damaged or malfunctioning.
7. Do not lift people or loads over people. Always keep people clear from load path.
8. Always keep a minimum of (3) wraps of wire rope on drum.
9. Do not use with open or twisted hook, or without safety latch.
10. Never run wire rope over a sharp edge.
11. Never leave a suspended load unattended.
12. Do not swing a suspended load.
13. Always inspect cable puller before each use. Replace if any component is damaged or malfunctioning.
14. Always use gloves when handling wire rope. Do not wear loose clothing which can become entangled in moving parts.
15. Failure to comply with the above warnings may result in personal injury and/or property damage.

Specifications:

JCP Series Cable Pullers

Model	JCP-1	JCP-2	JCP-4
Stock Number	180410	180420	180440
Weight Capacity (ton).....	1	2	4
Maximum Lift (ft).....	12.....	5.....	5
Lever Ratio.....	18:1	36:1	36:1
Lever Length (in)	16-1/2.....	16-1/2.....	17-1/8
Minimum Distance Between Hooks (in)	17	21	22
Wire Rope Diameter (in).....	3/16	3/16	1/4
Net Weight (lbs)	7	9	13

The JET JCP-Series Cable Pullers comply with ANSI/ASME B30.21 standards.

The specifications in this manual are given as general information and are not binding. JET reserves the right to effect, at any time and without prior notice, alterations to parts, fittings, and necessary equipment deemed necessary for any reason whatsoever.

JCP Series Cable Pullers

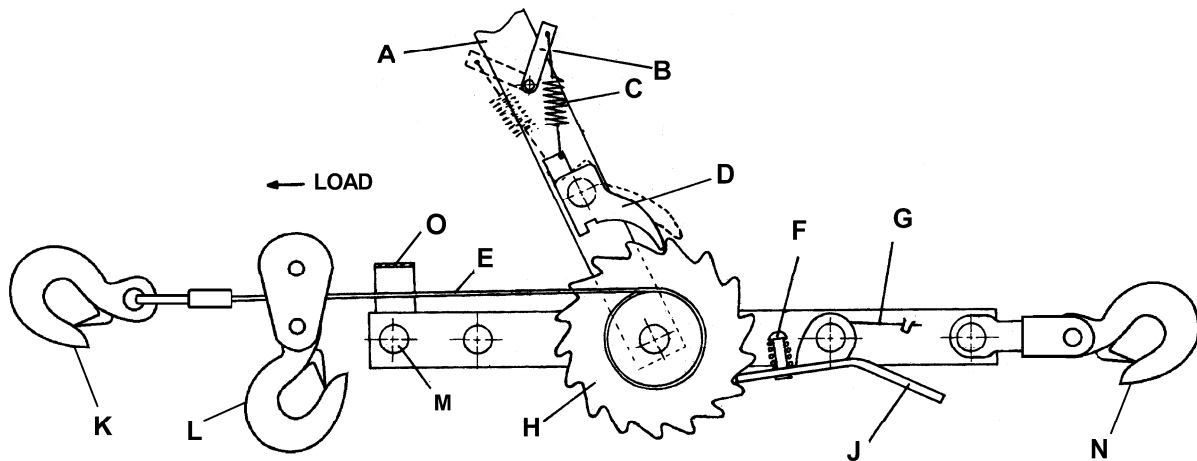


Fig. 1

A – Handle	H – Ratchet Wheel
B – Forward/Reverse Latch	J – Locking Lever
C – Spring	K – Bottom Hook
D – Pawl	L – Snatch Block (models JCP-2, JCP-4 only)
E – Wire Rope	M – Wire Rope Guide Bolt
F – Locking Lever Plunger	N – Top Hook
G – Locking Lever Spring	O – Wire Rope Guide

Operation

Hook Positioning with No Load (Freewheel) (Fig. 1)

1. With no load on cable puller, position forward/reverse latch (B) as shown on dotted lines, to hold pawl (D) off ratchet wheel (H).
2. Hold puller firmly with handle in uppermost position, and press locking lever (J) to disengage locking lever from ratchet wheel.
3. Have an assistant, also wearing gloves, pull wire rope out; or, anchor the bottom hook (K) to the load and walk backward with the puller to the anchor point, freewheeling the wire rope behind you.

WARNING Always keep at least three wraps of rope on the hub when puller is under load.

4. Release locking lever, and re-set forward/reverse latch to engage pawl with ratchet wheel and begin "winching in."

Pulling or Lifting Load (Fig. 1)

1. Place forward/reverse latch (B) to position as shown by solid lines. This enables pawl (D) to engage ratchet wheel (H) with spring (C) assistance.
2. Load is held and locked in position by locking lever (J) and pawl engaging ratchet wheel firmly.
3. Move handle (A) towards load, and ratchet handle back and forth.
4. When pressure on handle is relieved at the end of its travel, locking lever (J) engages ratchet wheel and locks the load. Repeat ratcheting cycle.

Releasing or Lowering Load (Fig. 1)

Cable puller is designed to ratchet load tension down one ratchet wheel tooth at a time:

1. While under load, place forward/reverse latch (B) to the position as shown by the dotted lines, freeing the handle (A) to move in the direction of the top hook (N).
2. As the handle nears the end of its travel, the pawl (D) is forced into contact with ratchet wheel (H), by spring loaded locking lever plunger (F) and eventually locks into one of the ratchet wheel teeth.
3. Continue to pull handle, causing pawl to turn ratchet wheel slightly, relieving full load from locking lever (J). When you have taken full load from locking lever, allow handle to move back towards load. The ratchet wheel will move one tooth, releasing wire rope the same amount, until locking lever locks into place once more. Repeat ratcheting cycle.

Using Snatch or Pulley Block (Fig. 1)

Models JCP-2 and JCP-4 are provided with a snatch or pulley block (safety hook with a pulley). This allows a 2:1 lifting ratio. The bottom hook (K) is looped back and hooked over bolt (M) which secures the cable guide (O). The snatch block is then attached to the load. The length of the pull is thereby halved, but the load capacity is doubled.

Pulling in Confined Spaces (Fig. 2)

The snatch block is also useful for pulling a load that is not directly in line with the puller. The snatch block must be firmly anchored. The wire rope passes over the pulley and to the load as shown.

▲WARNING Snatch block must be fully anchored when winching load out of line with puller.

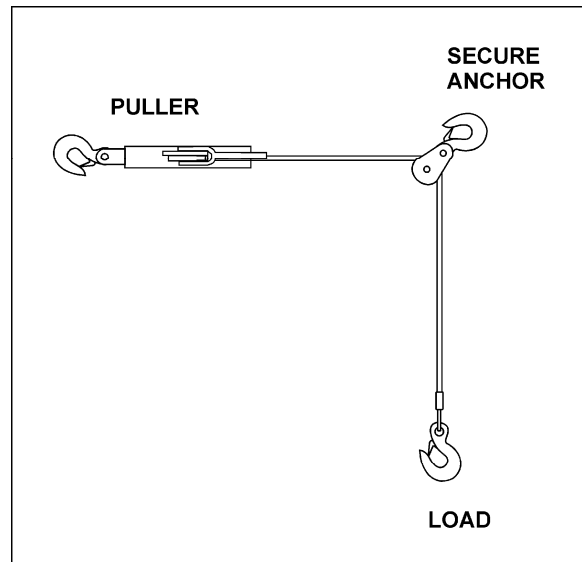


Fig. 2

Maintenance

1. Inspect the cable puller before each use for any damage. If cracking or distortion appears in the frame, the cable puller is considered beyond repair, should not be used, and must be replaced.
2. Keep pawl, hook pins, hook latch pins, ratchet pivots, and wire rope lightly oiled at all times.
3. Inspect wire rope for kinks, corrosion, fraying, etc. If corrosion is apparent, clean with a stiff wire brush and lightly oil. Do not use if wire rope is damaged or badly corroded.
4. Inspect hooks for wear, twisting or damage. Replace cable puller if hooks are worn, twisted or damaged.
5. Keep cable puller clean from dirt, grease and water. Always store cable puller in a no load condition and hang in dry area.
6. For more information concerning additional operation, inspection, maintenance, safety standards and regulations, read ANSI/ASME B30.21.

JCP Cable Puller Trouble-Shooting

Trouble	Possible Cause	Remedy
Puller will not ratchet.	<ol style="list-style-type: none">1. Broken spring (L).2. Broken ratchet tooth.3. Frame bent.	<ol style="list-style-type: none">1. Replace cable puller.2. Replace cable puller.3. Replace cable puller.
Puller will not ratchet in.	<ol style="list-style-type: none">1. Pawl (D) not in correct position.2. Spring (L) damaged.	<ol style="list-style-type: none">1. Move forward/reverse latch (B) to position as shown by solid line.2. Replace cable puller.
Puller will not ratchet out.	<ol style="list-style-type: none">1. Pawl not in correct position.2. Spring (L) damaged.3. Wire rope incorrectly spooled onto ratchet drum.	<ol style="list-style-type: none">1. Move forward/reverse latch (B) to position as shown by dotted line.2. Replace cable puller.3. Remove wire rope and rewind onto drum under tension.