



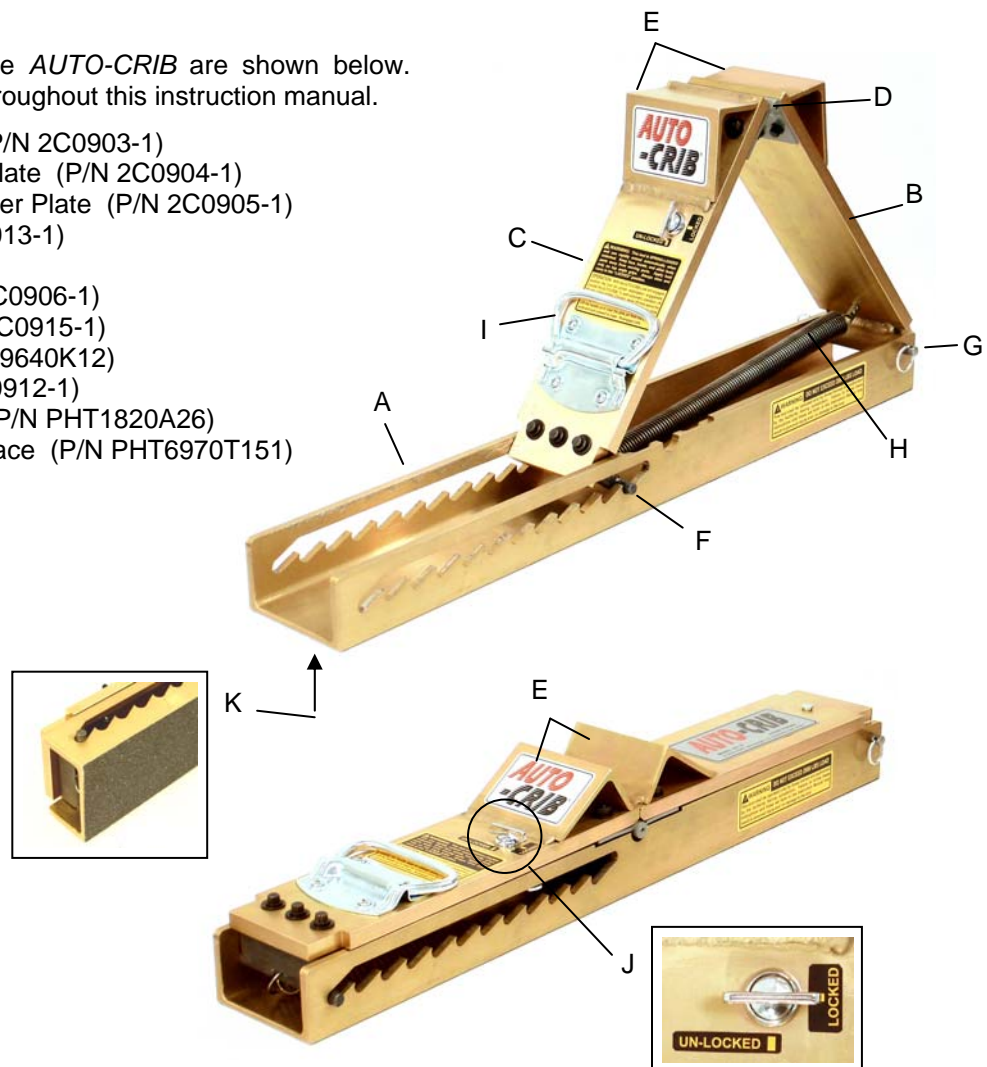
INSTRUCTION MANUAL

AUTO-CRIB™ Description

CONGRATULATIONS on your purchase of the *AUTO-CRIB™*!... the easiest and quickest vehicle stabilization tool on the market! Lightweight and portable, this tool can be positioned and operated to automatically extend and stabilize vehicles in seconds. Use it for auto-extrication and other stabilization operations, up to a maximum load of 2000 lbs! The *AUTO-CRIB* is patent pending and utilizes spring-loaded extender plates that automatically rise to engage the working material and lock into place. Because the *AUTO-CRIB* is spring-loaded, it will self-adjust upward and lock as weight is removed from the vehicle. The *AUTO-CRIB* can also be placed completely under and parallel to rocker panels to avoid trip hazards. Because the tool is made from high-strength aluminum and other metal parts, the *AUTO-CRIB* is easily decontaminated. Its super compact design makes it easy to stow and can free up room for other vital equipment.

The components of the *AUTO-CRIB* are shown below. Refer to these terms throughout this instruction manual.

- A. Channel Base (P/N 2C0903-1)
- B. Fixed Extender Plate (P/N 2C0904-1)
- C. Moveable Extender Plate (P/N 2C0905-1)
- D. Hinge (P/N 2C0913-1)
- E. Angle Supports
- F. Slide Pin (P/N 2C0906-1)
- G. Fixed Pin (P/N 2C0915-1)
- H. Spring (P/N PHT9640K12)
- I. Handle (P/N 2C0912-1)
- J. Auto-Crib Lock (P/N PHT1820A26)
- K. Bottom Grip Surface (P/N PHT6970T151)



General Safety Information

The *AUTO-CRIB* is designed to provide safe operation. All users should read and be thoroughly familiar with the operating instructions and safety precautions contained in this manual. Operator safety depends on users being properly trained by the Authority having jurisdiction and using the tool for the purpose intended. The following safety precautions must be observed at all times. **FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY, DAMAGE TO PROPERTY AND/ OR EQUIPMENT:**

- ◆ The *AUTO-CRIB*™ shall only be operated by persons authorized by the Authority Having Jurisdiction.
- ◆ Personal protective equipment (PPE) shall be worn as directed by the Authority Having Jurisdiction. At a minimum, this should include gloves, helmet, eye protection, steel-toed footwear, and body protection, such as turnout gear.
- ◆ This tool is **SPRING-LOADED** and can rapidly extend automatically when unlocked. Keep face, hands, and other body parts away from moving parts.
- ◆ **DO NOT EXCEED 2000 LBS LOAD.**
- ◆ Apply load **ONLY** to the top Angle Supports
- ◆ Prior to use, inspect all *AUTO-CRIB*™ components for any signs of damage. Do not use damaged equipment.
- ◆ Stow in the retracted position with the *AUTO-CRIB* lock engaged.
- ◆ Channel Base bottom grip surface is extremely coarse and can scratch surfaces. Avoid contact with such surfaces to prevent unwanted scratches.
- ◆ Stay alert. Do not operate tool when tired.
- ◆ Use only Factory authorized service parts.

AUTO-CRIB Operation

1. Determine the engagement point(s) on the vehicle for proper stabilization.

NOTE: Because of the *AUTO-CRIB*'s retractable design, you can use engagement points under the rocker panel and on the vehicle's frame.

2. Determine the *AUTO-CRIB* orientation for proper stabilization (i.e. perpendicular or parallel to the rocker panel)



Perpendicular

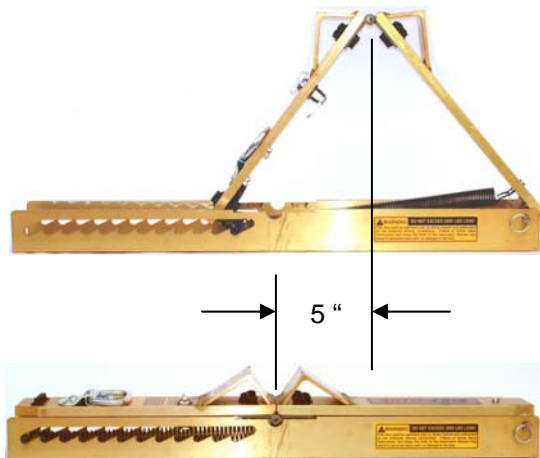


Parallel

CAUTION: Always stow and carry the *AUTO-CRIB* in the locked position



3. With the *AUTO-CRIB* lock still engaged, position the tool under the vehicle so that when extended, the Angle Supports will contact the desired engagement point.



NOTE: As the *AUTO-CRIB* rises, the relative position of the Angle Supports will move toward the rear (fixed side) of the tool as shown on the left.

4. Disengage *AUTO-CRIB* Lock by turning the knob Clockwise as shown below. Be sure to hold the top plates down against the Channel Base to prevent unintended automatic extension.





The Top Plates are **SPRING-LOADED** and can rapidly extend automatically when unlocked. Keep face, hands, and other body parts away from moving parts.

- 5. Start automatic operation of the *AUTO-CRIB* by slightly lifting the top plates. **CAUTION: DO NOT lift from above the Angle Supports.** The spring action will cause the tool to rise and the Slide Pin to ratchet across the slots in the Channel Base until the Angle Supports contact the engagement point. The slide pin and channel slot provides no-back locking of the *AUTO-CRIB*.



Correct



Wrong



HINT: Raising the vehicle suspension manually will bring the *AUTO-CRIB* to a higher notch to provide tighter engagement.



- 6. Inspect the *AUTO-CRIB* engagement to ensure it is secure and has properly stabilized the vehicle.

NOTE: As weight is removed from the vehicle, the vehicle's suspension may cause its body to lift. In this circumstance, the *AUTO-CRIB* will automatically rise with the body and lock to the new height (provided the height is within the maximum extension of the tool).

 **WARNING**

DO NOT EXCEED 2,000 LBS. LOAD. Failure to do so may result in breakage of components and may cause serious personal injury, damage to property and/or equipment.

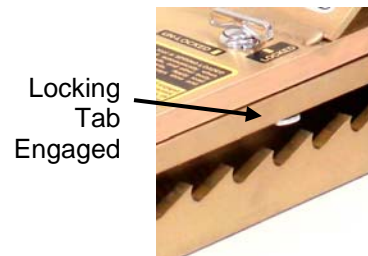
TO REMOVE AUTO-CRIB...

7. Hold the *AUTO-CRIB* handle down to prevent further extension and remove the applied load from the Angle Supports.
8. Once the load is removed, lift the *AUTO-CRIB* handle upward to clear the slide pin from the slots in the Channel Base and pull outward (toward the front of the *AUTO-CRIB*), while pushing down on the Moveable Plate with your other hand at the same time. HINT: Apply toe pressure to the front of the Channel Base to prevent the entire tool from moving.



NOTE: Avoid getting debris in between the Angle Supports which could get jammed and prevent retraction.

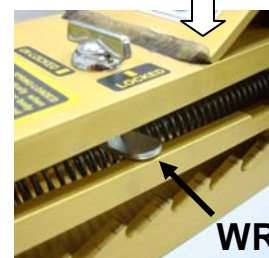
9. Make sure Top Plates are all the way down and resting on the Channel Base. Re-engage Auto-Crib Lock by turning the knob Counter-Clockwise as shown below. Test by pulling up on the Top Plates to ensure the lock is properly engaged.



⚠ CAUTION

Make sure that the 1/4-Turn Lock is in the UN-LOCKED position when retracting the AUTO-CRIB. Failure to comply will not allow the Top Plates to become fully retracted and can cause the locking Tab to become loaded and bent. If the Tab becomes bent, use pliers to straighten so that it properly engages the upper part of the Channel slot when in the LOCKED position.

When Retracting



10. Remove the *AUTO-CRIB* from underneath the vehicle. Stow using the Velcro strap that is provided to prevent accidental release and extension.



RAISING THE AUTO-CRIB STARTING HEIGHT...

If maximum extension of the *AUTO-CRIB* is reached before sufficiently engaging and stabilizing the vehicle, the starting height of the *AUTO-CRIB* may be raised by using proper block cribbing methods. At a minimum, the *AUTO-CRIB* Channel Base must engage the block cribbing at three (3) points... One at each end and one in the center as shown below:



Perpendicular



Parallel

Maintenance

Proper care and maintenance of the *AUTO-CRIB* is necessary to ensure long tool life and safe operation.

Interval	Check	Instructions
After Each Use	Make sure all fasteners are tight	Tighten as necessary. Item "D" - Top Hinge Bolts (x8): 30-40 Foot-Pounds Item "F" - Slide Pin Bolts (x3): 30-40 Foot-Pounds Item "I" - Handle Screws (x4): 40-50 Inch-Pounds Item "J" - ¼-Turn Lock Hex Nut (x1): 65-75 Inch-Pounds Item "J" - ¼ Turn Lock Cam Screw (x1): 10-15 Inch-Pounds
	Make sure <i>AUTO-CRIB</i> locking mechanism for stowing is engaging properly	Engage Auto-Crib Lock and attempt to lift top plates. Top plates should not be able to lift.
	Check for bent, damaged or cracked parts.	Replace parts as necessary. NOTE: A bent Slide Pin or Fixed Pin would indicate that the <i>AUTO-CRIB</i> was overloaded.
Monthly	Check for smooth automatic operation	Apply WD-40 (or equivalent) to slide pin, fixed pin, channel base slots, and hinge.
Annually	Check for sufficient spring tension	Shorten or replace spring as necessary.

Troubleshooting

Problem	Possible Cause	Solution
Extender Plates will not rise automatically	Maximum extension has been reached	Use block cribbing underneath the channel base to raise the Auto-Crib starting height. Ensure block cribbing supports the channel base at a minimum of three points along its length (each end and in the center). See section on "Raising Auto-Crib Starting Height".
	Moving parts are dry and require lubrication	Apply WD-40 generously to slide pin, fixed pin, channel base slots, and hinge.
	Insufficient spring tension	Shorten or replace Spring
	Parts are damaged	Determine damaged parts and replace as necessary. NOTE: A bent Slide Pin or Fixed Pin would indicate that the <i>AUTO-CRIB</i> was overloaded.
Extender Plates will not retract.	Load is still applied to the <i>AUTO-CRIB</i>	See instructions on removing <i>AUTO-CRIB</i>
	Slide pin is still engaged in channel base slot	See instructions on removing <i>AUTO-CRIB</i>
	Material or debris is lodged in between Angle Supports	Remove material or debris from Angle Supports. See instructions on removing <i>AUTO-CRIB</i>

If the above does not correct problem, contact your authorized *Power Hawk®* Dealer or the Factory.

Replacement Parts: Replacement parts for *the AUTO-CRIB* can be obtained from your authorized *POWER HAWK* Dealer or by contacting the Factory.

Specifications

MODEL AC-14

Maximum Load: 2,000 lbs. (8.9 kN)

Fully Extended Height: 13 in. (33.0 cm)

Stowed Dimensions:

L x W x H (Channel Base & Top Plates): 28 in. x 4 in. x 2-3/4 in. (71.1 cm x 10.2 cm x 7 cm)

NOTE: The Angle Supports add 1-3/8 inches (3.5 cm) to the height at the center

Weight: 14.5 lbs. (6.6 kg)

The AUTO-CRIB™ is manufactured by:

***POWER HAWK®* Technologies, Inc.**

300 Forge Way, Suite 2, Rockaway, New Jersey 07866 USA

1-800-PWR-HAWK (1-800-797-4295) or 973-627-4646 Fax: 973-627-4622

www.powerhawk.com

"*Power Hawk*" is a Registered Trademark of Power Hawk Technologies, Inc.

"*AUTO-CRIB*" is a Trademark of Power Hawk Technologies, Inc.

WARRANTY

WARRANTY. Power Hawk Technologies, Inc. guarantees the *AUTO-CRIB*, parts, equipment and accessories against defects in material and workmanship for a period of one (1) year from the date of purchase by the original purchaser. The identity of the original purchaser and the date of purchase shall be established in each case by the return of the properly completed Warranty Registration Card.

WARRANTY TERMS. The obligations of Power Hawk Technologies, Inc. under this warranty include free replacement of the necessary parts and the shipping costs to return the equipment to the user, provided the inspection of the equipment has proved that the parts were defective at the time of purchase or were improperly designed or manufactured. The warranty inspection can only be performed by a Power Hawk Technologies, Inc. service center or an official Power Hawk Technologies, Inc. factory-trained distributor, and shipping costs to a Power Hawk Technologies, Inc service center or an official Power Hawk Technologies, Inc. factory-trained distributor will be for purchaser's account. Said warranty shall remain in effect only if (1) such goods are used normally and properly in accordance with Power Hawk Technologies, Inc. instructions as to maintenance and operation, whether given orally or set forth in manuals and instruction sheets furnished by Power Hawk Technologies, Inc. and (2) the purchaser gives prompt notice to Power Hawk Technologies, Inc. of any such defects and preserves and turns over all allegedly defective goods, parts or items.

EXCLUSIONS. This warranty covers all defects in material and workmanship except:

- Any damage occurring during shipments of the goods (for which claims shall be presented to the carrier).
- Normal wear and tear and deterioration.
- Damage caused by abuse, improper use, or corrosion
- Damage caused by repairs performed by persons other than a Power Hawk Technologies, Inc. service center or an official Power Hawk Technologies, Inc. factory-trained distributor, or damage resulting from the use of parts other than genuine Power Hawk Technologies, Inc. parts.
- Damage as a result of improper or neglected reasonable maintenance.

THIS WARRANTY STATED HEREIN IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WRITTEN OR ORAL, EXPRESS, STATUTORY OR IMPLIED, AND POWERHAWK TECHNOLOGIES, INC. EXPRESSLY DISCLAIMS ANY AND ALL WARRANTIES FOR MERCHANTABILITY, FITNESS, PERFORMANCE OR SUITABILITY FOR A PARTICULAR PURPOSE.

LIMITATION OF DAMAGES. Power Hawk Technologies, Inc.'s obligation under this warranty is limited to repair and/or replacement, at Power Hawk Technologies, Inc.'s option, of any defective Power Hawk Technologies, Inc. tool, part, accessory or item or other manufacturer's tool, part, accessory or item, and under no circumstances, whether due to a breach of any warranty hereunder or any other cause, and whether arising in contract or in tort (including negligence or strict liability) shall Power Hawk Technologies, Inc. be liable for (1) consequential or indirect loss or damage including, but not limited to, loss of profits, loss of

production, plant downtime, or liabilities to customers or other third parties, or (2) loss or damage arising out of the sale or contributory negligence of the purchaser, its employees or agents, or any third part, or (3) any special or punitive damages of any nature. If Power Hawk Technologies, Inc. determines, in its sole and final discretion, that the nature of the defect precludes remedy by repair and/or replacement Power Hawk Technologies, Inc. reserves the right to satisfy any warranty obligation by refunding the full purchase price, on return of all defective goods to Power Hawk Technologies, Inc., shipping cost prepaid. Any action for breach of warranty or other action must be commenced within one (1) year after such cause of action arises, except where applicable law would prohibit any such time restriction in bringing of such an action.

NOTICES. For all notices, information and inquiries concerning this warranty or Power Hawk Technologies Inc. service centers and official Power Hawk Technologies, Inc. factory-trained distributors contact:

Power Hawk Technologies, Inc.,
 300 Forge Way, Suite 2
 Rockaway, New Jersey 07866 USA
 Telephone: 973-627-4646 or 1-800-PWR-HAWK (1-800-797-4295)
 Fax: 973-627-4622
 Email: powerhawk@powerhawk.com