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REEL JACKS
Operational Manual
Reference # - 54212
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Date - 0111



IMPORTANT - READ CAREFULLY

This manual contains important information about the correct installation, operation and maintenance of this equipment. All persons involved in the installation, operation and maintenance of this equipment must be thoroughly familiar with the contents of this manual. To safeguard against the possibility of personal injury or property damage, follow the recommendations and instructions of this manual. Keep this manual for reference.

WARRANTY STATEMENT

SIMPLEX products are warranted to be free of defects in materials and workmanship under normal use for as long as the original purchaser owns them, subject to the guidelines and limitations listed. This warranty does not cover: normal wear & tear, cosmetic items, abuse, overload-ing, alterations, improper lubrication, or use in a manner for which they are not intended. If the customer believes a product is defective, the product must be delivered, or shipped freight prepaid, to the nearest SIMPLEX Authorized Service Center for evaluation and repair.

RECEIVING INSTRUCTIONS

Important! Make sure to inspect all of the components for shipping damage. If damage is found, notify carrier at once. Shipping damage will not be covered by warranty. The carrier is responsible for all loss associated with shipping damage.

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- Note -

This Operational Manual is intended as a technical guideline only. SIMPLEX accepts no liability for any use or reliance made of any information in this Operational Manual. All information, illustrations and specifications in this Operational Manual are based on the latest information available at the time of publication. SIMPLEX reserves the right to make changes at any time without notice. Equipment operators and installers shall be responsible for ensuring that a safe working environment and safe systems of work are in place before operating the equipment.



Reel Jacks

1.0 SAFE OPERATING PROCEDURES & SAFETY PRECAUTIONS:



CAUTION: Prior to use, the operator should be instructed by a qualified person in the safe and proper use of the jack for the specific application.



IMPORTANT: Simplex makes no claim that the jacks covered by this document are suitable for any general or particular use and the user assumes all liability arising therefrom. In addition, to comply with the requirements set forth by ANSI B30.1 Chapters 1-1, 1-2 and 1-3, all jacks should be examined by a qualified person prior to each use for damage, proper lubrication and wear.



IMPORTANT: The jack should be operated through one complete travel cycle prior to application of load to verify that all mechanisms properly function, and the jack is in good working condition.



WARNING: Simplex Reel Jacks are load rated in pairs. Consult decal on side of jack housing and verify that capacity and travel is suitable for the load. If unable to calculate the load exactly, select a pair of jacks with greater capacity than the estimated load, allowing a large margin of safety.



CAUTION: Never use a jack that is damaged, dirty, improperly lubricated, or malfunctioning. Jacks that fail inspection must be removed from service until repaired by an authorized service center.



WARNING: Do not lift human cargo. Do not allow personnel on or under the load until lifting is complete and the load is secure with proper load supports installed in accordance with OSHA safety and health standards. Ensure that supports have been inspected and approved by a safety engineer or qualified person of authority.



CAUTION: Place the pair of jacks on a firm foundation, making sure the jacks are evenly supported at the base and properly aligned perpendicular to the load. Also, be sure that the jacks are properly aligned at the lifting point, supported in a manner that the jacks cannot slip or the load cannot shift.



WARNING: Use the Simplex Lever Bar recommended for the specific jack model. The lever bar to be used should not exceed the length specified on the jack decal. Lever bar extenders are not to be used.



IMPORTANT: Prior to use, the operator should make sure that the area is clear of personnel and objects obstructing work space to safely activate the jack lever in both the up and down mode



WARNING: The operators head and body should be positioned to one side of the lever in a manner to prevent serious injury should a sudden movement in the load cause the lever to kick up.



WARNING: Do not exceed the jack travel shown on the decal on side of jack housing or continue to apply lever force to extend the jack after stop contact has occurred.



WARNING: Never apply lever force to extend the jack after contact with immovable objects has occurred. Never kick, jump on, stand on, or straddle the lever bar. Do not strike with a hammer or force the lever in a rocking motion. Such actions create a personal injury hazard, the jack could become dislodged, causing the load to drop and working parts could become damaged and fail.

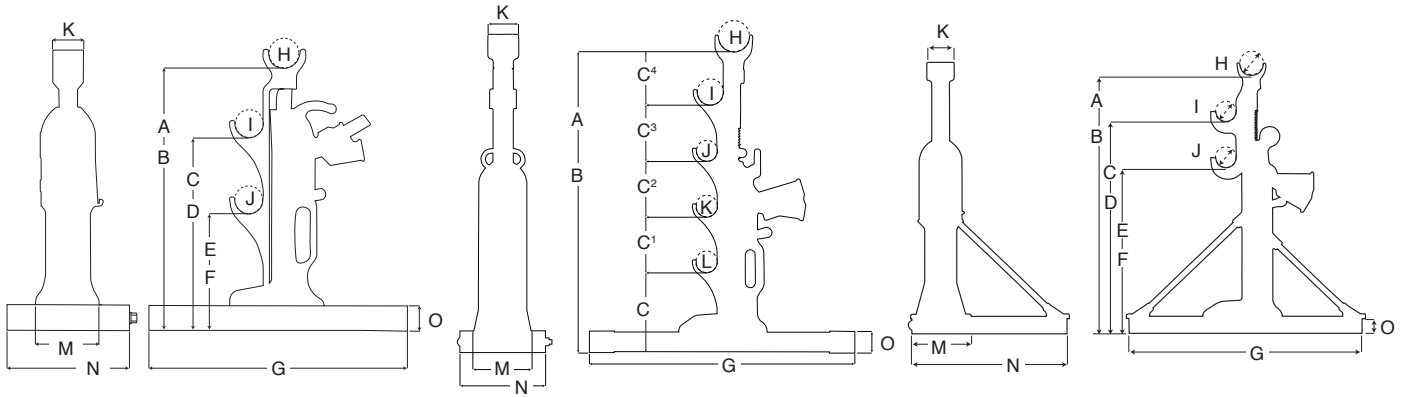


IMPORTANT: Prior to operating the jack to lower the load, read operating instructions. Operator should perform the lowering process and follow the procedure above, taking precautions that all personnel and parts of the human body are clear of the load before lowering.



CAUTION: As a safety precaution, remove the lever bar from the socket after lifting is complete and when jacks are not in operation. Accidentally striking an unattended lever bar projecting from the socket could dislocate or dislodge the jack causing the load to drop. Unattended lever bars can present a trip hazard.

2.0 TECHNICAL SPECIFICATIONS



Model	Capacity / Pair		Handle Effort per (tonnes) (N)	Stroke (mm)	Dimensions (mm)							
	Side Hooks (tonnes)	Top Hooks (tonnes)			A	B	C	C¹	C²	C³	C³	
					Minimum	Maximum	Minimum					
CR320B	4,5	9,1	142	241	528	768	387	----	----	----	----	----
CR321B	9,1	18,1	134	356	877	1232	235	397	559	721	883	
CRA1029R			134	295	791	1086	632	----	----	----	----	
CRA1029L			134	295	791	1086	632	----	----	----	----	

Model	Dimensions (mm)												Weight (kg)
	Maximum	Minimum	Maximum	Length	Diameter	Diameter	Diameter	Diameter	Diameter	Length	Width	Height	
	D	E	F	G	H	I	J	K	L	M	N	O	
CR320B	629	234	476	518	67	57	57	----	----	127	238	57	23
CR321B	----	----	----	771	79	76	61	61	61	151	248	51	58
CRA1029R	927	479	774	762	79	67	67	----	----	191	508	57	39
CRA1029L	927	479	774	762	79	67	67	----	----	191	508	57	39

3.0 JACK OPERATING INSTRUCTIONS



IMPORTANT: Refer to the decal on the side of the jack housing to locate the model number, capacity and recommended lever bar length for each model.

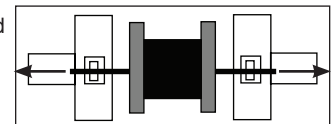


WARNING: Do not exceed the jack travel shown on the decal or continue to apply lever force to extend the jack after stop contact has occurred.



CAUTION: Be sure that the jack's rack bar and mechanisms are free from foreign objects; otherwise it may affect the jack performance. Refer to Section 4.0 for proper maintenance procedure.

Placement of the jack pair: On a firm foundation, be certain the jacks are evenly supported at the base (10) and properly aligned perpendicular to the cable reel rod. Each jack must be properly aligned at the lifting points (7 or 8), and supported in a manner that the jacks cannot slip or the load cannot shift. Make sure the lever bar sockets are facing in one direction to improve operating procedure



On models CRA1029 L & R the cross center base brace should be pointing outward.

To Raise: Move reversing lever to the "up" position (1) on both jacks. Select the appropriate socket position (2) and insert lever bars (3). Make sure that the lever bars engage the full depth of the sockets. In a tandem lift operation, each person will grip the lever bar (3) and exert "up" and "down" strokes on each jack synchronously, gripping firmly and completing a controlled downward force, assuring each pawl (4 & 5) engages properly prior to each stroke completion.



CAUTION: After each downward stroke, gradually release the downward force on the lever bars (3) making sure that the holding pawls (4) have engaged and the lever bars are free of the load prior to completing the upward stroke. Should the lever bars be released while under the load, they will suddenly "kick up", presenting a personal injury hazard.

To Lower: Move the reversing lever to the "down" position (6) on both jacks. Select the appropriate socket position (2) and insert lever bars (3). Make sure that the lever bars engage the full depth of the sockets. In a tandem lift operation, each person will grip the lever bar (3) and exert "up" and "down" strokes on each jack synchronously, gripping firmly and completing a controlled downward force, assuring each pawl (4 & 5) engages properly prior to each stroke completion.

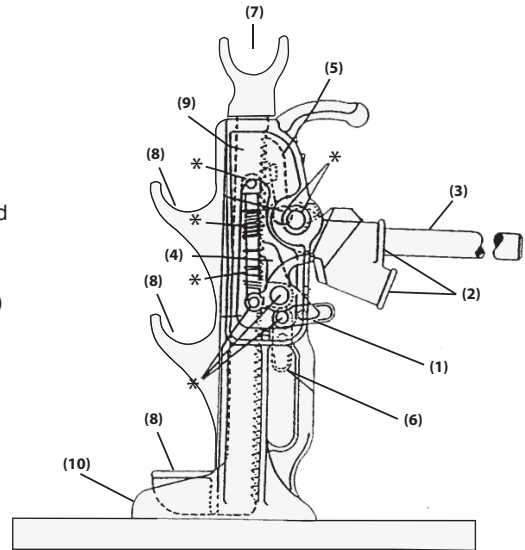
CAUTION: Before lowering the reel, be sure that all obstructions are removed (refer to all operating, safety procedures and precautions in Section 1.0).

WARNING: Do not operate speed trip function to lower load. This feature is to be used for quickly retracting the rack bar under no load condition only.

Before Using Speed Trip Function: Be certain that the load is properly blocked. Move reversing lever to down position (6). Operate the lever bar (3) per instruction "To Lower" and lower the load onto load supports. Continue to lower until load point (7 & 8) of jack clears the load.

CAUTION: Be certain your hands are clear of the rack bar (9) or load point (7 & 8) during the speed trip operation.

When jack is no longer under load, then: release the rack bar (9), move the lever bar (3) to the down position; hold the reversing lever down (6) to engage the speed trip function. Gradually push the socket (2) upward, at the point of pawl disengagement, the rack bar (9) will suddenly drop and the rack bar (9) into the retracted position.



4.0 MAINTENANCE & LUBRICATION INSTRUCTIONS

1. Comply with the inspection, testing and maintenance requirements of ANSI B30.1 as determined from use, experience or as specified by a qualified person of authority. • ANSI B30.1 Safety Standards - Please visit www.ansi.org and type "jacks" in the search window.
2. Keep jack clean, free of grit, and in good working condition.
3. Do not lubricate the tooth side of the rack bar and retaining pawl. Lubricate the back side with #2 graphite grease.
4. Lubricate periodically other working parts with a good grade of SAE 20 wt. Oil - avoid lubrication of base and cap load surface.
5. Periodically lubricate parts marked with an *(asterisk).

