



777 Oakmont Lane, Ste. 800  
 Westmont, IL 60559  
 1.800.323.9114 • Outside U.S. 1.630.590.6990  
 www.simplexmechanicals.com



**SUPER JACKS**  
**Operational Manual**  
**Reference # - 54216**  
**Rev. - B**  
**Date - 0510**



**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.



# Super 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:** Never exceed the rated capacity or travel of the jack. Select a jack of 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.



**WARNING:** Any jack exceeding 40.7 LBS (18.5 Kg) should be positioned or transported by mechanical means using the lift point indicated on the jack decal.



**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.



**WARNING:** Never exceed the rated capacity or travel of the jack. If unable to calculate the load exactly, select a jack of greater capacity than the estimated load allowing a large margin of safety. Never apply more than the maximum handle effort to the lever bar of the jack.



**CAUTION:** Lift the load evenly and follow the load with blocking during operation to prevent falling or shifting of load in the event of jack failure or accidental dislocation of the jack. A raised load should never be allowed to remain supported by jacks only. Immediately after lifting is complete, substantial load supports should be installed.

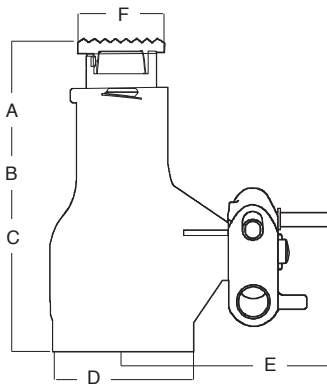


**WARNING:** Never apply lever force to extend the jack after contact with immovable objects has occurred. Never kick, jump on, stand on, or straddle the lever bar. Do not strike with a hammer or force the lever in a rocking motion. Such actions create a personal injury hazard, the jack could become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



**WARNING:** Always 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	Jack Housing Material	Capacity (tonnes)	Dimensions (mm)						Handle Effort per tonnes (kg)	Weight (kg)
			A	B	C	D	E	F		
			Minimum Height	Maximum Height	Stroke	Base Diameter	Socket	Cap Diameter		
JJ2510C	Steel	22,7	260	387	127	140	191	79	2,7	19,5
JJ3510D		31,8	260	387	127	140	191	79	2,3	20
JJ5010B		45,3	262	364	102	184	224	84	1,8	36,3
JJA1510C	Aluminum	13,6	260	387	127	140	191	60	4,1	12,7
JJA2510C		22,7	260	387	127	140	191	79	2,7	15,4
JJA2515C		22,7	381	606	225	141	191	79	2,7	19,5
JJA3510D		31,8	260	387	127	140	191	79	2,3	15,4
JJA5010B		45,3	262	364	102	184	224	84	1,8	27,7

## 3.0 JACK OPERATING INSTRUCTIONS



**CAUTION:** Before Operating the jack, the operator should make sure that the area is clear of personnel and objects obstructing working space required to safely activate the jack lever in both directions. The operator's head and body should be positioned to one side of the lever in a manner to prevent any injury should ratchet failure cause the lever to suddenly swing unrestricted.

Place the jack on a firm foundation, capable of supporting the expected load. Make sure the jack base is properly aligned perpendicular to the load and that the base is fully supported (can be used in a horizontal or vertical position). Also, be sure that the jack is properly supported at the lifting point in a manner that the jack cannot slip or the load cannot shift.

Refer to the model specification decal on the jack for the recommended Simplex lever bar length. Lever bar extenders are not to be used.

### To Raise:

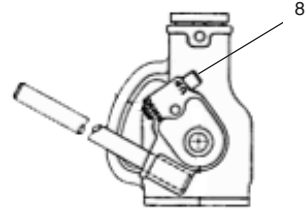
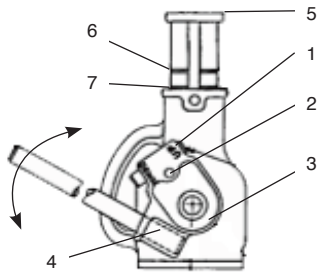
Make sure the socket plunger is shifted over to the UP position (1). Rotate the handle socket counterclockwise by hand using the post (2) to raise the load cap to the load point (5) quickly. Fully insert the recommended lever bar into ratchet socket assembly (3). To operate, exert a controlled force to extend as illustrated (4).



**CAUTION:** The sleeve grooves shown (6-7) are travel indicators. The first groove (6) is a visual indicator to alert the operator that the sleeve extension is approaching the travel limit. The jacks rated travel is complete when the second groove (7) is visible. Do not operate jack to extend sleeve beyond second groove.

**To Lower:**

Once your load has fully supported by cribbing or other means, shift over the socket plunger to the DOWN position (8). Fully insert the recommended lever bar into ratchet socket assembly (3). To operate, exert a controlled force to retract as illustrated (4) until the jack clears the load.



**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](http://www.ansi.org) and type "jacks" in the search window.
2. Keep jack clean, free of grit, and in good working condition.
3. To lubricate internals, fill jack with lithium #1 grease through lube port (1). Lubricate ratchet assembly with good grade 20 wt. oil.
4. In addition, the operator should adhere to the general safety principles and accident preventative measures as outlined by the equipment owner or other prevailing authority.

