

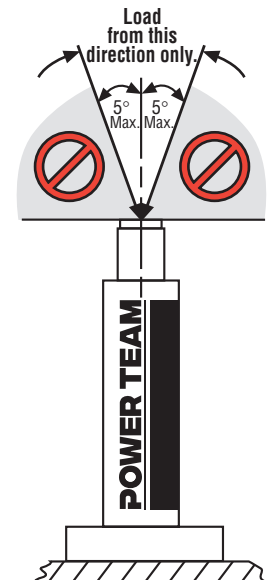
## JACK MODULE EXTENSIONS AND CRIBBING BLOCK SETS

### SAFETY PRECAUTIONS



**WARNING:** To help prevent personal injury,

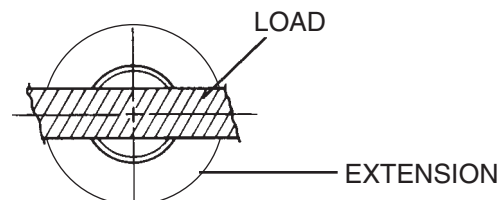
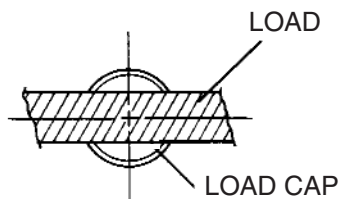
- Read all instructions and decals carefully.
- Side load can damage the jack or cause failure of the threaded joint connecting the bases or extensions resulting in loss of the load and possible personal injury.
- Align load and jack so that the force is straight and in line with the load and so that the movement of the load does not cause instability.
- Do not drive or push the load off the jack. Lower jack and remove before moving the load.



- Completely cover the top of the load cap with a secure and properly supported load lifting point. Do not lift on a rounded or uneven surface. Lift by pushing against a flat surface parallel to the cylinder base within 5°.



- Center the load evenly on the jack and on the load cap and extension/spacer rings assembly as shown.



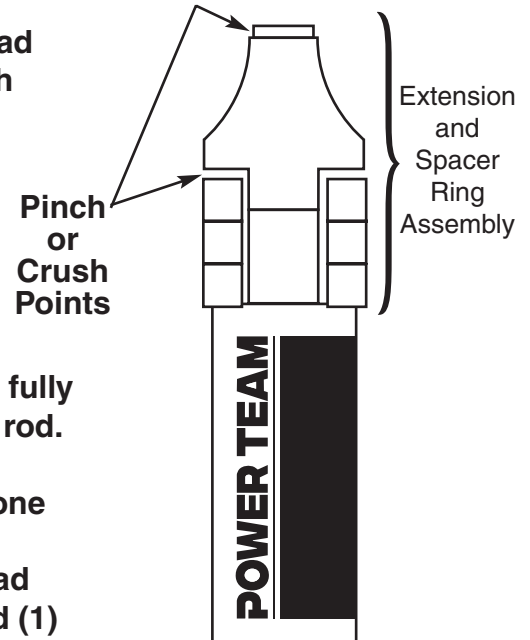
Note: Changed references to "swivel cap" to "load cap"  
at last revision(s) made to this form.

## SAFETY PRECAUTIONS - CONTINUED

- Never place your hands or other body parts under the load being lifted. Always use the handle provided. Avoid pinch points and crush points.
- If spacer rings are used they must be installed properly. Use installation tool, align openings, seat fully into recessed diameters before lowering piston extension adapter onto cribbing.
- Follow the lifted load with cribbing or blocks.
- Use only with approved accessories.
- Use only the approved load cap and extension assembly fully threaded and securely tightened in the end of the piston rod.
- Spacer rings must be fully seated and evenly loaded.
- Do not use more spacer rings than those provided with one complete set.

**NOTE:** CBS55, CBS100, and CBS150 sets consist of a load cap, extension assembly, handle, (4) 3" spacer rings, and (1) 1-1/2" spacer ring.

- Do not lower the load directly onto the spacer rings or damage to the machined surfaces may occur. Supplemental cribbing or blocks alongside the jack is/are recommended.
- Use each set only with the cylinder for which it was designed.
- Check that the counterbalance valve is functioning properly before using the jack. Read and understand the operating instructions.
- When extending double-acting jacks, hoses must be connected to both ports or port circuits, the retract port **MUST BE UNRESTRICTED**. If one of the two ports is restricted or disconnected, pressure will build and the cylinder, hose or coupler can burst.
- Use a jack with sufficient capacity to lift the load.
- The total load, lifted or supported by a jack, must not exceed the rated capacity of the jack.
- Never support a load hydraulically.
- All loads must be supported mechanically.
- Properly support the jack and jack bases.
- Use a friction material under base and between jack and load.
- Lift only dead weight loads.
- Stay clear of lifted loads.
- Do not work on or near unsecured loads. Do not allow personnel, or moving loads on an unsecured load.
- Do not use jack with bent or damaged coupler(s) or port threads.
- Use only approved hydraulic oil.
- Supply pump must have sufficient oil to fully stroke jack(s).
- Read and understand the operating instructions and A.N.S.I. B30.1 safety code for jacks.
- Do not use jack(s) if damaged, altered or in poor repair.
- User must insure that all safety related decals are maintained and replaced as lack of readability becomes evident.



Note: Changed references to "swivel cap" to "load cap" at last revision(s) made to this form.

## OPERATING INSTRUCTIONS

### WHEN LIFTING THE LOAD

1. Extend the load to the desired position or slightly above it. Stay out from under the load. Avoid all pinch and crush points.
2. Stop pump and verify that the load is held at position securely, is stable, and is not moving.
3. Using the handle, add as many spacer rings as possible in the space between the cylinder body and the swivel and extension assembly as shown. Be certain that the rings are completely seated and aligned.
4. SLOWLY lower the extension onto the spacer rings until securely held. If no extension is used, integral jack spacer rings should not be used. Supplemental cribbing or blocks alongside the jack is recommended.
5. Verify that the load is stable and secure.



**WARNING: DO NOT CAUSE INSTABILITY OF THE JACK OR FORCE IT OFF ITS SECURE POSITION BY APPLYING EXTERNAL LOADS OR FORCES**

### TO LOWER THE LOAD

1. Raise the load 1/2" (12 mm) to 1" (25 mm).
2. Stop the pump and verify that the load is held at position securely, is stable, and is not moving.
3. Using the handle, remove all spacer rings. Stay out from under the load. Avoid all pinch and crush points.
4. SLOWLY lower the load until the cylinder is free, unloaded, and able to be removed.

Note: Shaded areas reflect last revision(s) made to this form.