

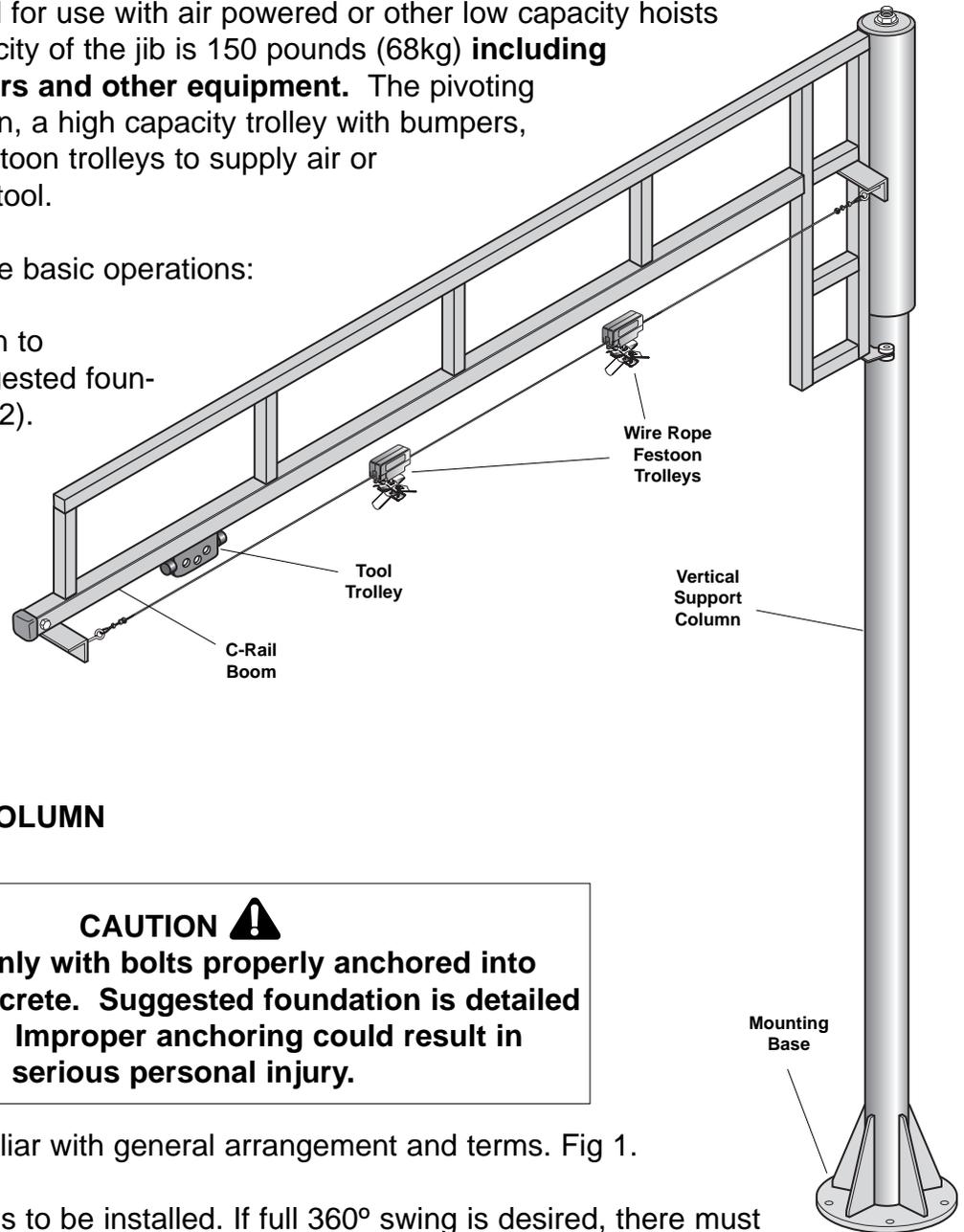
# INSTALLATION INSTRUCTIONS

## 150 lb. Capacity Tool Jib

The 150 lb. Jib is designed for use with air powered or other low capacity hoists and balancers. Total capacity of the jib is 150 pounds (68kg) **including weight of hoists, balancers and other equipment.** The pivoting boom features 360° rotation, a high capacity trolley with bumpers, and wire-rope mounted festoon trolleys to supply air or electricity to hoist or other tool.

Installation consists of three basic operations:

1. Attaching vertical column to suitable anchor bolts (suggested foundation is detailed on Page 2).
2. Affixing boom to top of vertical column.
3. Running air or electric lines and adjusting festoon trolleys.

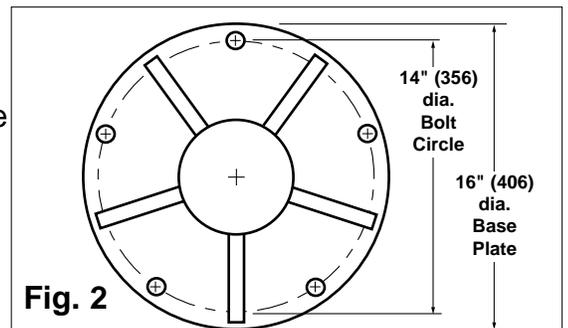


**Fig. 1**

### MOUNTING VERTICAL COLUMN

**CAUTION** **Install only with bolts properly anchored into reinforced concrete. Suggested foundation is detailed on page 2. Improper anchoring could result in serious personal injury.**

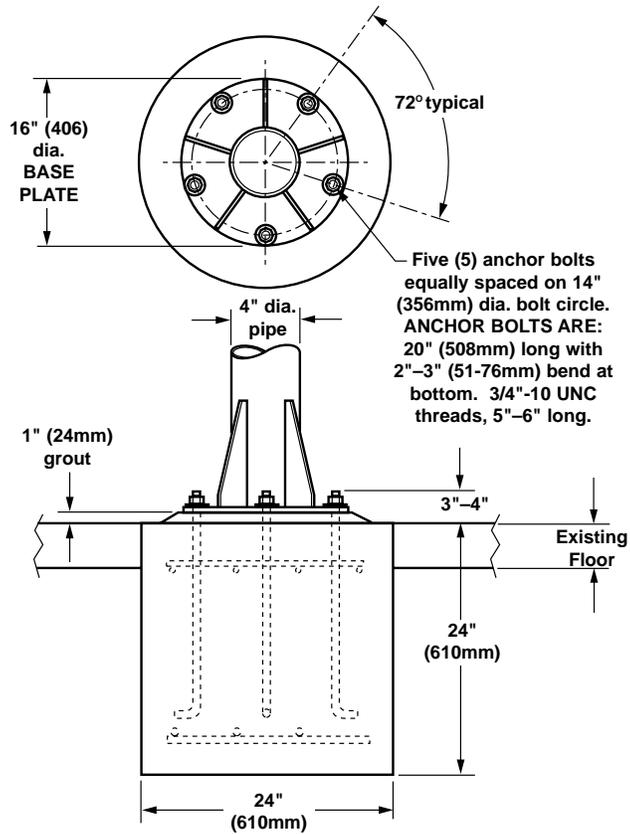
1. Become thoroughly familiar with general arrangement and terms. Fig 1.
2. Select area in which jib is to be installed. If full 360° swing is desired, there must be no obstructions within a diameter equal to the boom length x 12' (2.4m) high area.
3. Determine anchoring to be used. A full foundation, as detailed on following page, is recommended. Five 3/4" anchor bolts, extending 3"-4" (76-102mm) above concrete floor surface, must be equally spaced on 14" (356mm) dia. circle. Fig. 2.
4. Erect, level, shim & grout, and bolt down column. Allow to thoroughly set. **NOTE: Column must be plumb.**



**Fig. 2**

## SUGGESTED FOUNDATION

24" (610MM) X 24" (610MM) deep reinforced concrete. Soil pressure 2500 lb/sq. ft. 3000 lb./sq. in. compressive concrete. Place 1/2" dia. reinforcing rods at top and 5/8" reinforcing rods at bottom in an opposing pattern in two layers 16" apart with 6" spacing between rods in same layer.



## ATTACHING BOOM TO COLUMN

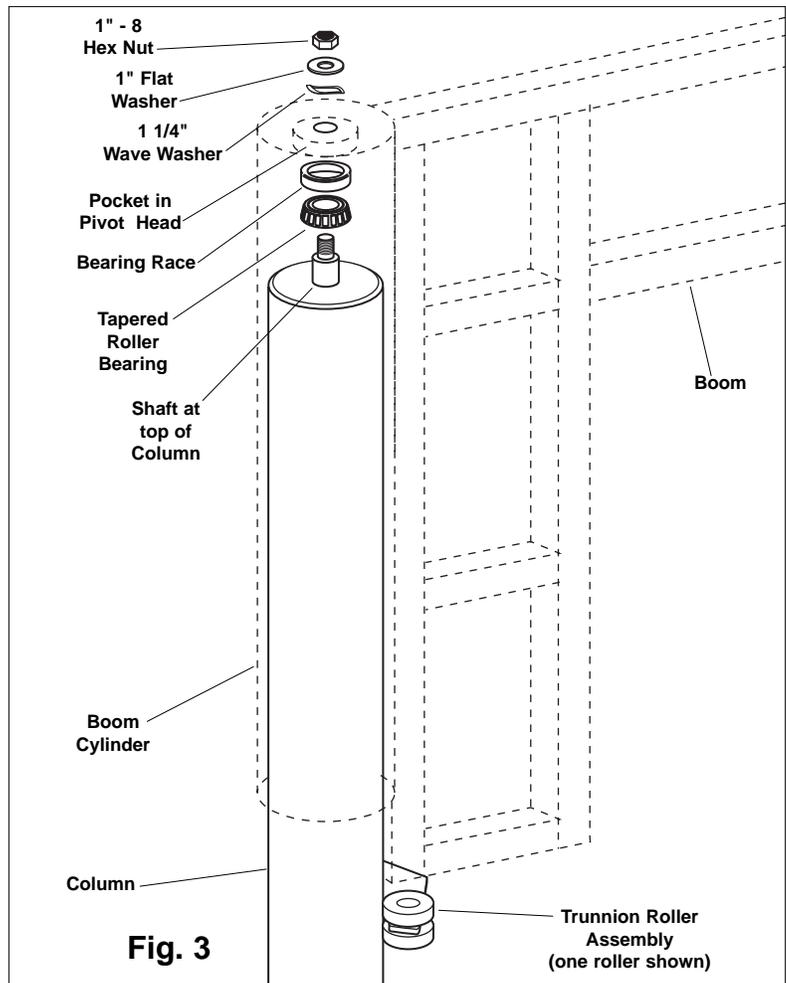
5. Liberally apply grease to tapered bearing. Slide bearing onto shaft at top of column. Small diameter of bearing must be up. Fig 3.

6. Place bearing race over bearing and shaft. Fig 3.

7. Raise boom assembly over column and carefully lower until threaded portion of shaft extends through hole in top of boom cylinder. Continue to lower until bearing race is firmly seated in pocket at top of boom cylinder.

8. Place wave washer and flat washer onto shaft. Screw on nut and tighten.

9. Adjust trunnion roller assembly to both level boom and achieve smooth rotation.



## AIR OR ELECTRIC LINES

10. Provide air line or electric cable long enough to reach from source connection to tool.

11. Hang air balancer or other tool from trolley.

12. Use wire rope festoon trolleys to carry air hose or cable to tool. Loop air hose or cable as shown (Fig 4) to allow free trolley movement.

NOTE: If boom is to be allowed to swing full 360°, some provision, such as an air line swivel or electric slip-ring assembly, must be employed to prevent hose or cable twisting.

## PRE-USE CHECKS

14. Check to make sure nut at mounting bearing (Fig 3), trunnion rollers and air lines are tight and properly adjusted.

15. Slowly swing boom through entire rotation. Be sure bearing is properly seated and nothing interferes with boom movement.

16. If less than 360° rotation is desired, install Rotation Stops (optional extra) following instructions included with stop kit.

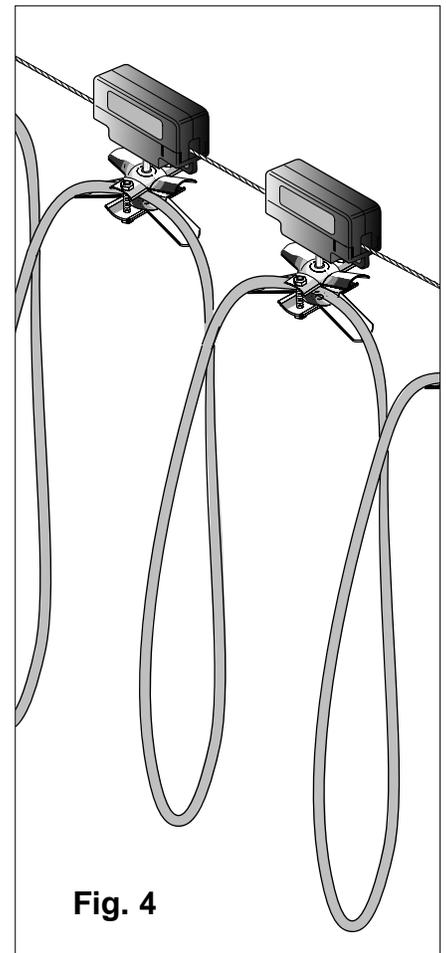
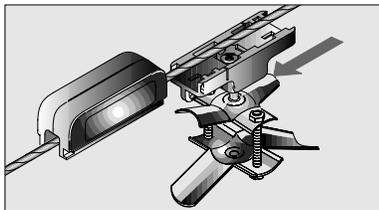


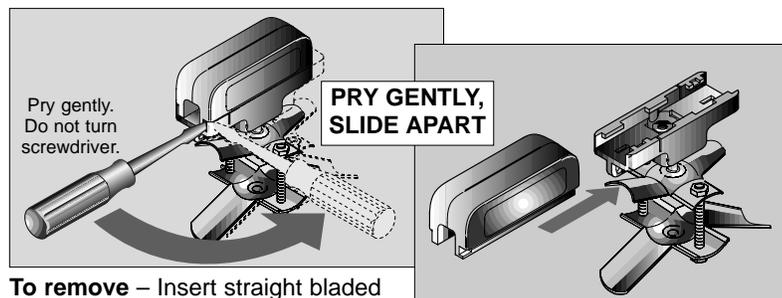
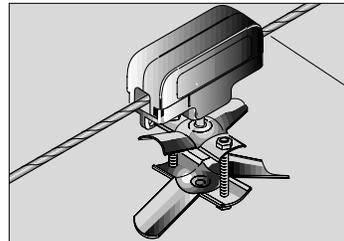
Fig. 4

### • LOCK 'n ROLL TROLLEY INSTALLATION •

This jib is equipped with exclusive **LOCK 'n ROLL** wire rope festoon trolleys designed for 0.60"–0.94" (15-24mm) O.D. hose or cable.



**To install trolley** – Place top section in position on wire rope. Slide sections together until they snap (lock) in place. **NOTE: Sections may be assembled in only one way. Slide "un-blocked" end into "un-blocked" end. Do not force.**



**To remove** – Insert straight bladed screw driver into slot beside cable opening (not slit on side of trolley) and pry gently as shown above. Do not turn screwdriver. **Slide Apart**

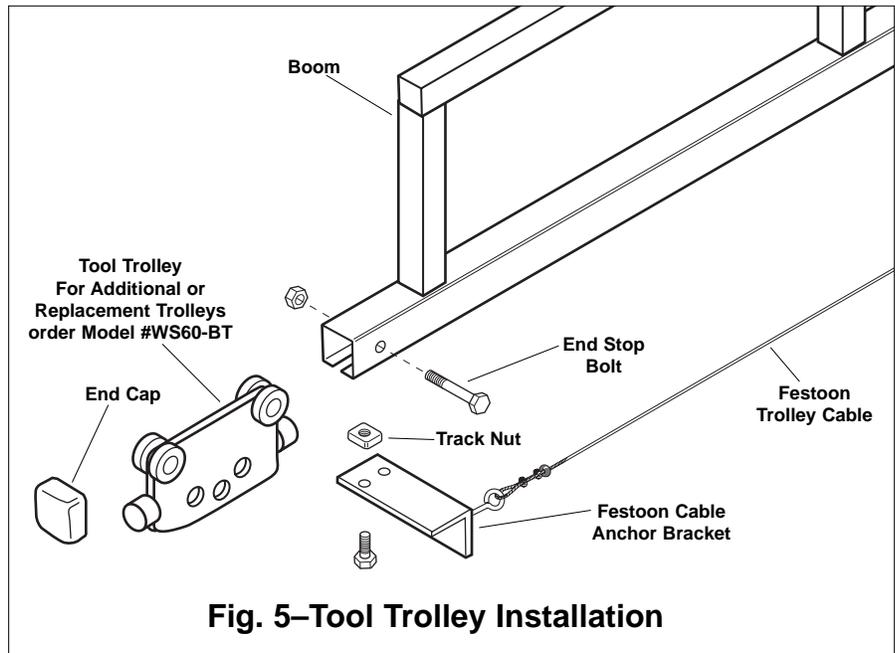
## MAINTENANCE

1. During normal equipment inspection, perform the following checks and maintenance:
  - A. Check for wear on trolley wheels. Wheel bearings on trolley are sealed and do not require routine maintenance.
  - B. Check for loose fasteners and nuts, especially the bolt affixing the boom to the top of the vertical column. Tighten if required.
  - C. Check festoon trolley cable for damage and tightness. Replace or tighten as required.
  - D. Check loop clamps on festoon trolleys for tightness. Tighten if required.
  - E. Check rollers on **Lock n' Roll** Festoon trolleys for wear. Replace if necessary.

## ADDING OR REPLACING TOOL TROLLEY

NOTE: Jib is supplied with one tool trolley. If a second one is desired, or if trolley needs replacing, follow steps below:

1. Remove end cap, end stop bolt and festoon cable anchor bracket at end of boom. Fig 5.
2. Slide new trolley in place in C-rail.
3. Replace end cap, end stop bolt and festoon anchor bracket removed in step one. Securely tighten all bolts.
4. Check festoon trolley cable for tightness. Tighten as required.



## PARTS LIST

Tool Trolley	WS60-BT
Lock 'n Roll Festoon Trolley	FRT-05
Full Rotation Stop Kit	W6S-SK



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