



AIMCO Manufacturing Safety Manual



Sales & Service:



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1.1 GENERAL INSTALLATION INSTRUCTIONS

All AIMCO lift assist equipment and associated tooling is assembled and tested at the factory.

2 ARTICULATED JIB CRANE REQUIREMENTS

Your articulated jib crane should be installed where it is not subject to radical changes in temperature or temperatures outside of the limits listed below (1.3). Temperatures outside of the recommended limits may cause problems with bearings, pneumatic systems, moving parts and tooling.

1.3 TEMPERATURE LIMITS

Unless otherwise specified, AIMCO equipment is designed for indoor use only.

- Minimum Temperature -40 degrees Fahrenheit
- Maximum Temperature +140 degrees Fahrenheit

1.4 AIR SUPPLY

This equipment is designed for a minimum air pressure of 90 PSI to a maximum air pressure of 120 PSI. The air should be clean, dry, non-lubricated, and regulated.

1.5 SHIPMENT

The pedestal mounted articulated jib crane is shipped as follows:

Skid #1: Assembled Articulated Jib Boom Complete, Box of assembly hardware.

Skid #2: Floor Support Pedestal

1.6 MOUNTING INSTRUCTIONS:

1.6.1

Mount the pedestal on a level, appropriately sized concrete foundation. The pedestal should be leveled prior to securing to the floor. Level across the top mounting plate. Shim stock beneath the pedestal may be used to aid leveling the pedestal.

1.6.2

Position the pedestal on the foundation with the supply air intake cover positioned to minimize piping.

1.6.3 Arm Assembly preparation for mounting.



1.6.3A

Assure the ½ x ½ x 1" fitting is connected to the bottom of the main rotation bearing assembly on the articulated arm boom. Check that the connection is tight.

1.6.3B

Plug the 8 ft length of ½" airline from the accessory box into the fitting referenced in 1.6.3.A. Assure the tube is locked into place in the fitting.

1.6.3C

Assure the ½ x ½ x 90 degree rotary air swivels are threaded tightly into the top of the main rotation bearing assembly, and the bottom of the secondary rotation bearing assembly. Assure the ½" airlines running internal to the arms are tightly connected to these rotary swivels.

1.7 MOUNTING THE ARMS:

1.7.1

Prior to mounting the arms, assure the pedestal is level and securely lagged to the floor.

1.7.2

Fold back the secondary arm beneath the primary arm (condition as shipped). Tie the two arms together so that they will not unfold during lifting. Using a forklift, spread the forks and place them between the primary and secondary arm so that the load is lifted from the bottom side of the primary arm. Secure the arms to the forks with "C" Clamps prior to lifting overhead. Lift the arms assembly until the main rotation bearing mounting plate is about 6-12" directly above the pedestal mounting plate.

1.7.3

Insert the 8 ft of ½" airline from the bottom of the main rotation bearing mounting plate down into the pedestal, and through the uncapped hole located on the side of the pedestal.

1.7.4

Slowly lower the arms onto the top of the pedestal, aligning the boltholes. Secure the arms to the pedestal with the six (6) 5/8-11 SHCS from the accessory box. It is recommended that LocTite thread sealant be used for this connection. Recommended bolt torque is 175 ft. lbs.

1.8 COMPLETING AIR CIRCUITRY:

1.8.1

Locate the pedestal cover plate from the accessory box. This cover plate should have two (2) $\frac{1}{2}$ x $\frac{1}{2}$ x 1" air fittings attached to each side. Assure these fittings are tight. Plug the $\frac{1}{2}$ " airline previously threaded through the pedestal into the fitting on the backside of the cover plate. Secure the cover plate to the pedestal with the four (4) $\frac{1}{4}$ -20 x $\frac{1}{2}$ SHCS from the accessory box.

NOTE: It is recommended that a filter regulator to assure clean, dry, oil-free air be mounted between the supply air source and the AIMCO system.

1.8.2

Mount your filter regulator unit to the mounting block on the side of the pedestal with $\frac{1}{4}$ " bolts and nuts.

1.8.3

Connect the 18" piece of $\frac{1}{2}$ " tubing to the filter regulator and the cover plate fitting.