

INTRODUCTION

The AIMCO torque arm is a lifting device that provides a rigid connection between the mounting structure or crane and end tooling or payload.

The torque arm design utilizes a pneumatic cylinder to provide lift, and a Thompson guide shaft/linear bearing arrangement to protect the cylinder shaft from the effects of side loading. This arrangement allows off-center weights to be lifted, transferred and manipulated.

INSTALLATION

Care should be taken when unpacking the equipment. Visually inspect the packaging and its contents for any damage that may have occurred in shipping. Notify AIMCO immediately if any shipping damage is detected.

STEP #1

Locate the accessory package. The following items are shipped loose for field assembly:

- FOUR (4) 3/8 X 2-1/2" SHCS, FOR TOOL MOUNT

STEP #2

2.1.

With the torque arm unpackaged and resting horizontally, visually inspect to assure there is a blocking valve fitting installed in the bottom port of the cylinder.

2.2.

Care should be used when lifting the torque arm vertically for mounting to the bridge. The blocking valve should prevent the cylinder rod from extending during installation. However, it is recommended that the bottom swivel plate be temporarily secured prior to lifting the torque arm vertical. This will physically prevent the rod from extending.

2.3

Remove the hoist trolley pin and insert the top mounting flange into the trolley. Put the pin back in place.



STEP #3 END TOOL ATTACHMENT

3.1

Carefully raise the tooling to the bottom mounting plate of the torque arm.

3.2

Locate the four (4) 3/8 x 2 1/2" SHCS. Attach the mounting plate to the end tool wrist swivel. Loctite should be used for this connection.

3.3

Locate the white/black coiled airline from the torque arm. Plug the black line into the "In" port on the control handle. Plug the yellow line into the "Out" port on the control handle.

STEP #4 FINAL AIR CONNECTION

4.1

Locate the airline protruding from the top of the torque arm cylinder. Connect this line to the main air infeed on the bridge.

4.2

Slowly introduce air to the system. Test all functions without a load. Assure there are no air leaks. Assure air pressure is 110 PSI or greater.

4.3

Test system with a load.