

Safety Precautions:

1. Always wear proper personal protective equipment (PPE) while handling and installing components.
2. Ensure work area is clean and free of hazards.
3. Disconnect power sources before beginning the installation.
4. Use appropriate tools for all assembly steps to prevent injuries.

Required Tools and Equipment:

1. Standard wrench set.
2. Torque wrench.
3. Hex keys (various sizes)
4. Measuring tape.
5. Safety goggles and gloves

Installation:

1. Pre-Installation Checklist
 - Verify the package contents against the parts list.
 - Inspect all components for damage.
 - Prepare the workspace with appropriate tools and instructions.
2. Assembly of Frame
 - a.) Position the legs (**WA1A** and **WA1B**) on the designated floor area.
 - b.) Attach the Hydraulic or Electric Cross Bar (**WA1C** or **WA1C-EL**) to the legs using the provided bolts and washers.
 - **Use torque specifications:** 1/2" bolts tightened to 47 ft-lbs
 - See Page 19 for more torque specifications.
3. Installation of Wrap Arms
 - a.) Secure the **Driver Arm (WA1D)** and **Passenger Arm (WA1E)** to the frame.
 - b.) Align the arms at a 20° angle as per the design specifications.
 - c.) Use the supplied bolts and ensure proper torque application.

Installation Continued:

4. Hydraulic and Electric Connections

a.) Hydraulic Systems:

- Connect hoses to the hydraulic motor and ensure no leaks.
- Test the motor with the flow requirements of 1.67 GPM at 1100 PSI.

b.) Electric Systems:

- Wire the motor to a 230V/460V power source.
- Confirm proper grounding and secure connections.

5. Air Cylinder Setup

a.) Attach the air cylinders (**TR1R**) to the wrap arms.

b.) Set the operating pressure to 25-30 PSI and test the movement.

6. Final Checks

a.) Ensure all bolts are tightened per the torque table.

b.) Confirm the rotation speed of 80 RPM.

c.) Perform a dry run to verify the movement and alignment.

TORQUE TABLE Apply to all fasteners, unless specified otherwise. +/- 10% tolerance			
Nom Dia	Threads per Inch	Torque (in-lbs)	Torque (ft-lbs)
2	56	2.5	-
4	40	5.4	-
5	40	8.0	-
6	32	10.0	-
8	32	18.4	-
10	24	26.6	-
1/4	20	63.6	-
5/16	18	131	-
3/8	16	-	19.4
7/16	14	-	31.0
1/2	13	-	47.0
5/8	11	-	94.0
3/4	10	-	125.0
7/8	9	-	202.0
1	8	-	303.0

Maintenance:

1. Oil Change Frequency: Once per year.
2. Bearing Lubrication Frequency: Once per month.
*Grease should not protrude externally.
3. Manifold Cleaning: Verify manifolds are clear and operating correctly once a week and clean out any blockages as necessary.
4. Brush Cleaning: Clean brushes once a month.
5. Brush Replacements: Start by checking the diameter after 6 months of operating. The diameter of the brush will decrease with use due to wear and tear. Brush replacements should be completed when brush is no longer effective in cleaning. Document the final brush diameter and adjust the maintenance/inspection schedule as necessary.