## Equipment Features:
- Air Shock Assist Take Up
- Anti-Jamming Air Dollie Up System
- X-458 52000LB Chain Tensile Strength
- Manual Dollie Up System Standard
- Accept 13" Wide Tire
- Removable Take-Up Rubber Flap
- Direct Drive Héco Gear Reducer
- Electric and Hydraulic Drive Available

## Equipment Requirements:

<table>
<thead>
<tr>
<th></th>
<th>ELECTRIC DRIVE</th>
<th>HYDRAULIC DRIVE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ELECTRICAL</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 HP</td>
<td>208VAC - 11FLA - 3PH</td>
<td>208VAC - 17.5FLA - 3PH</td>
</tr>
<tr>
<td>5 HP</td>
<td>208VAC - 17.5FLA - 3PH</td>
<td>N/A</td>
</tr>
<tr>
<td>60 CPH</td>
<td>460VAC - 4.8FLA - 3PH</td>
<td>460VAC - 7.6FLA - 3PH</td>
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<tr>
<td>120 CPH</td>
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<tr>
<td><strong>HYDRAULIC</strong></td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4.0GPM</td>
<td>6.0GPM</td>
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<td>(2) 1/2&quot; JIC MALE FITTINGS</td>
</tr>
</tbody>
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**PNEUMATICS**
- 2 SCFM

**WEIGHT**
- Entrance Section: 900LBS (APROX)
- 10 Feet Center Section: 700LBS (APROX)
- Exit Section: 975LBS (APROX)
- Accessories (Chain, Roller, ECT): VARIES
- 60’ Conveyor (W/Accessories): 6000LBS (APROX)
- 100’ Conveyor (W/Accessories): 9000LBS (APROX)
- 120’ Conveyor (W/Accessories): 11,500LBS (APROX)

## Equipment Dimensions:

![Conveyor Section Dimensions](Pic #1: Conveyor Section Dimensions)
**NOTE:**

CENTER SECTIONS ARE ALSO AVAILABLE IN INCREMENTS OF 1 FOOT
EX: 1 FOOT CENTER SECTION
2 FOOT CENTER SECTION
3 FOOT CENTER SECTION...
UP TO 9 FOOT CENTER SECTION

---

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**Suggested Installation Tools and Materials**

- ✅ Fork Lift Truck (2000 lbs Capacity)
- □ Gantry Frame or Fork Lift Truck Crane
- □ Set of Standard Combo Wrenches
- □ Sledge Hammer
- □ Measuring Tape
- □ Come-Along
- □ 4” Grinder
- □ Sawzall®
- □ Cutting Torches
- □ Electric Welder
- □ Safety Goggles
- □ Torpedo Level
- □ 1/2” Drive Ratchet Set
- □ Optical or Laser Level
- □ Welding Machine
- □ 5’ Pry Bar
- □ Vise Grip Pliers
- □ Various C-Clamp

---

**Notes and safety Symbols**

Always follow all “Notes”, “WarningS” and instructions. Failure to do so may have serious consequences on the overall performance of the equipment and/or the safety of the people working on the equipment!

---

**NOTE:** PROVIDES FURTHER INFORMATION!

---

**STOP!** PRECAUTION TO AVOID EQUIPMENT MALFUNCTION OR ERROR!

---

**WARNING!** DANGEROUS SITUATION WHICH MAY CAUSE EQUIPMENT DAMAGE, PERSONAL INJURIES OR FATALITIES!
Upon receiving your MCWW equipment, open all boxes and crates and verify that you have all the required components and there is no damage to the equipment. Make sure you have all your installation material.

**NOTE:**
BEFORE MOVING ANY CONVEYOR SECTION FROM THE LOADING AREA, LET’S REVIEW THE DIFFERENT STEPS WHICH WILL BE PERFORMED DURING A COMPLETE INSTALLATION PROCESS

**CONVEYOR INSTALLATION PROCEDURES**

1. Measure the floor and trench “elevation” and overall dimensions using measuring tape and optic or laser level.

2. Pull and secure a string on the side of the conveyor trench.

3. Lower each conveyor section on the conveyor shelf.

4. Rough installation using a portable crane or fork lift truck mounted crane and welding of each conveyor section.

5. Installation and welding of corrolator and “Y” section.

6. Installation of metal supports, floor grating and conveyor final welding.

7. Grinding and painting of conveyor.

8. Chain, rollers and plastic guide rail installation.

9. Installation of pneumatic, electric and/or hydraulic utilities.

10. Start-up and testing.
Measure the overall dimensions of the conveyor trench (see Picture below): Length, width, depth and verify that all metal structures are the proper size, correctly located and solidly secured to the concrete. Verify also that the INSIDE EDGE OF THE CONVEYOR TRENCH is lined up with the CENTER-LINE OF THE WASH BAY (and/or the entrance and exit overhead doors).

**NOTE:**

**THE OVERALL LENGTH OF THE CONVEYOR TRENCH HAS TO BE EQUAL TO:**

**THE CONVEYOR LENGTH + 1 INCH PER 10 FOOT SECTION**

**EXAMPLE:** 100' CONVEYOR TRENCH LENGTH = 100' + (1" X (10) 10' SECTION): TOTAL 100'-10''

**NOTE:** DO NOT FORGET TO MEASURE THE CORROLATOR TRENCH
Using a chalk line, snap a first line in the conveyor trench from entrance to exit IN THE CENTER OF THE SHELF. Snap a second line parallel to the conveyor trench ON PASSENGER’S SIDE AND 60” AWAY FROM THE FIRST LINE (see Picture #5 below). Starting at the beginning of the wash, mark both lines EVERY 5 FEET.

Using an OPTICAL LEVEL or a LASER LEVEL (see Picture #6) measure the elevation of the floor and the conveyor trench shelf EVERY 5 FEET and record on a chart similar to the one shown in Picture #7 below. Archive the results and keep it for your records.

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LOCATION NAME:
DATE:

CONVEYOR LENGTH:
FEET
TECH NAME:

DISTANCE (FT)
SHELF ELEVATION (IN)
FLOOR ELEVATION (IN)

0 →
72
50

5 →
72
50-1/8

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IMPORTANT NOTE:

IF YOUR CONVEYOR IS A REAR WHEEL PUSH: OVERALL ELEVATION OF THE CONVEYOR WILL BE 1” ABOVE FLOOR LEVEL TAKEN 60” AWAY TOWARD PASSENGER’S SIDE (see Picture #8).

IF YOUR CONVEYOR IS A FRONT WHEEL PULL: OVERALL ELEVATION OF THE CONVEYOR WILL BE 1” BELOW FLOOR LEVEL TAKEN 60” AWAY TOWARD PASSENGER’S SIDE (see Picture #9).

- Pull a string along the conveyor trench and secure 1” AWAY FROM THE TRENCH EDGE AND 1 TO 2” ABOVE THE FLOOR (see Picture below).

- Drop all the conveyor sections in the trench, onto the approximate location on the conveyor shelf.
Using a portable crane (see Picture #11) or a fork lift mounted crane (see Picture #12) and a CHAIN HOIST (see Picture #13 below), raise the entrance section and position the entrance side AGAINST THE ENTRANCE TRENCH WALL and 1” AWAY FROM THE DRIVER’S SIDE TRENCH WALL. Use the string to keep each section parallel to the trench wall and about 1” away from the trench wall).

Level the section from left to right (see Picture #13) and “spot” weld the entrance side of the section FLUSH TO THE TOP OF THE METAL ANGLE AT THE ENTRANCE OF THE TRENCH (Picture #14).

Using the **OPTICAL OR LASER LEVEL**, position the measuring rod onto the **10 FEET MARK** chalk line (60’ away from the center of the conveyor) as previously shown in Picture #6 and measure the elevation of the floor. Record the measurement.

Move the measuring rod to the exit end of the conveyor section and level to the appropriate elevation according to the type of conveyor: **FRONT WHEEL PULL** or **REAR WHEEL PUSH**

**NOTE:** FOR A FRONT WHEEL PULL CONVEYOR
LEVEL THE EXIT END OF THE SECTION
1/2” **BELOW** THE CHALKED LINE FLOOR LEVEL

**WELD 1/2" BELOW FLOOR LEVEL**

Pic #13: Front Wheel Pull Elevation

**NOTES:** FOR A REAR WHEEL PUSH CONVEYOR
LEVEL THE EXIT END OF THE SECTION
1/2” **ABOVE** THE CHALKED LINE FLOOR LEVEL

**WELD 1/2" ABOVE FLOOR LEVEL**

Pic #14: Rear Wheel Push Elevation
Using short pieces of 2” X 2” X 1/4” ANGLE IRON 7” LONG, weld each conveyor leg to the shelf (see Picture #15 and #16).

Check the different levels of the section for a last time and weld a short piece of ANGLE IRON 2” X 2” X 1/4” X 3” LONG BETWEEN THE CONVEYOR SECTION AND THE SIDE OF THE TRENCH (see Picture #15 and 16).
Position the next section against the previous one, level it and **MAKE TWO SMALL WELD SPOTS BETWEEN THE TWO SECTION’S TOP SURFACES. LEVEL THE EXIT END OF THE NEW SECTION TO THE APPROPRIATE ELEVATION:**

**NOTE:** FOR A FRONT WHEEL PULL CONVEYOR LEVEL THE EXIT END OF THE SECTION 1” BELOW THE chalked line FLOOR LEVEL

WELD 1/2" BELOW FLOOR LEVEL  WELD 1" BELOW FLOOR LEVEL

Pic #17: Front Wheel Pull Level

**NOTES:** FOR A REAR WHEEL PUSH CONVEYOR LEVEL THE EXIT END OF THE SECTION 1” ABOVE THE chalked line FLOOR LEVEL

WELD 1/2" ABOVE FLOOR LEVEL  WELD 1" ABOVE FLOOR LEVEL

Pic #18: Rear Wheel Push Level
Repeat the same procedure previously shown in Picture #15 and #16) and install short pieces of 2" X 2" X 1/4" ANGLE IRON 7" LONG, and weld each conveyor leg to the shelf. Repeat the same for the side of the conveyor using the 3" long pieces.

Position the THIRD section against the previous one, level it like previously shown in Picture #13 and SPOT WELD THE TWO SECTIONS TOGETHER and LEVEL THE EXIT END OF THE NEW SECTION TO THE SAME ELEVATION as THE FLOOR ON PASSENGER'S SIDE. Weld each leg to the shelf as well as the side to the trench.

IF YOUR CONVEYOR IS A FRONT WHEEL PULL: OVERALL ELEVATION OF THE CONVEYOR WILL BE 1” BELOW FLOOR LEVEL TAKEN 60” AWAY TOWARD PASSENGER’S SIDE (see Picture #19).

IF YOUR CONVEYOR IS A REAR WHEEL PUSH: OVERALL ELEVATION OF THE CONVEYOR WILL BE 1” ABOVE FLOOR LEVEL TAKEN 60” AWAY TOWARD PASSENGER’S SIDE (see Picture #20).

Keep on adding additional sections while maintaining the overall elevation up TO THE TWO LAST CONVEYOR SECTIONS.

Add the previous to last section to the existing conveyor and LEVEL THE EXIT END 1/2” ABOVE OR BELOW FLOOR LEVEL DEPENDING IF THE CONVEYOR IS TO RAISE OR LOWER IN ORDER TO MEET THE FLOOR ELEVATION AT THE EXIT END (see Picture #21 and #22).
Weld the last conveyor section between the previous and the exit end of the trench with the **EXIT END OF THE CONVEYOR SECTION Flush TO THE FLOOR ELEVATION** (see previous pictures #21 and #22).

Finally, move back to each section and permanently weld each top section together (see picture #23) as well as each side section, leg assembly (see Picture #24) and both guide rails together.

---

**Gear-Motor and Pulse Sensor Installation Procedure**

Locate the gear-motor assembly and secure the sprocket (see Picture #25). Mount the gear-motor assembly to the exit section of the conveyor as shown in picture #25.
Locate the CONVEYOR PULSE SENSOR and mount it on the DRIVER’S SIDE OF THE EXIT SECTION OF THE CONVEYOR. Use the JAM NUT to secure the sensor to the bracket (see Picture #26). The sensor should face each sprocket stud when the sprocket rotates.

If your conveyor has an ELECTRIC DRIVE GEAR-MOTOR UNIT, mount the sprocket to the gear-motor assembly and then mount to the conveyor as shown in Picture #27 below.

Locate the electric motor and apply a generous coating of ANTI-SEIZE LUBRICANT to the flange and the shaft and assemble the motor to the gear-motor using the provided (4) 1/2"-13 bolts and lock washers (see Picture #28).
Take-Up Parts Installation Procedure

□ Locate the four (4) AIR CYLINDERS (AUTOMOTIVE AIR SHOCK) and mount two (2) on each side of the TAKE-UP UNIT by inserting the retainer pin in the rear and front shock mount for each shock (see Picture #29). Keep the shock’s air line inlets fittings toward the exit of the wash.

□ Locate the MANUAL CALL-UP and install on the DRIVER’S SIDE of the conveyor, above the air shocks as shown in picture #31. Mount the ROLLER COUNT SWITCH in front of the manual call-up (see Picture #32).

STOP!
POSITION THE CONNECTION BOX ON THE SIDE OF THE MOTOR.
FAILURE TO DO SO MAY CAUSE WATER TO FILL IN THE CONNECTION BOX AND CAUSE IRREVERSIBLE DAMAGE TO THE MOTOR
Locate the air lines and pull one line for each shock, from the SHOCK AIR INLET FITTING to the MAIN AIR MANIFOLD (see Picture #34) and connect each air line.

Chain and Rollers Installation Procedure

Your MCWW conveyor utilizes an X458 CHAIN TYPE. The X458 chain does not require any special tools for assembly. It is shipped in 10 FEET SECTIONS. You will need to insert a ROLLER (see Picture #35-B) at specific chain link increments depending on the ROLLER SPACING desired. Attach each chain section together on top of the conveyor.

7’-4” ROLLER SPACING = 23 CHAIN LINKS BETWEEN ROLLERS
6’-4” ROLLER SPACING = 19 CHAIN LINKS BETWEEN ROLLERS
3’-8” ROLLER SPACING = 11 CHAIN LINKS BETWEEN ROLLERS

Lift the entrance rubber flap and feed the chain around the TAKE-UP SPROCKET and pull the chain toward the exit until you’ve reach the DRIVE SPROCKET. Feed more chain until you cover the entire length of the conveyor. Attach the top section to the bottom section and pull together as tightly as possible with a COME-ALONG.
NOTE:
INSERT ONE ROLLER PER SECTION OF 3’-8” OR 6’-4” OR 7’-4”
ATTACH EACH SECTION TOGETHER AND PULL THROUGH THE CONVEYOR
**Corrolator Installation Procedure**

- **Verify** that the measurements of the corrolator trench are correct (see Picture #36) and then install each corrolator section in it’s trench (see Picture #37).

![Pic #36: Corrolator Trench](image1)

![Pic #37: D/S and P/S Corrolator](image2)

- **Weld** the DRIVER’S SIDE corrolator section to its frame with a series of short welds as shown below. Repeat the same procedure for the PASSENGER’S SIDE section.

![Pic #38: Weld Corrolator Section](image3)

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REVISION 1.0 09-24-09
Locate the two CORROLATOR ROLLING GUIDE RAILS (see Picture #39 below) and GUIDE RAIL MOUNTS (see Picture #40). Position the LEFT HAND SIDE MOUNT (TALL) on the entrance side of the corrolator and slide in the LEFT HAND ROLLING GUIDE RAIL (YELLOW) and position the inside edge of the exit end of the guide rail in line with the INSIDE EDGE OF THE OUTSIDE CONVEYOR GUIDE RAIL (see Picture #42). Using a wood board, support the guide rail and raise it to be perfectly LINED-UP WITH THE CONVEYOR GUIDE RAIL (see Picture #42).
Locate the two GUIDE RAIL STUBS (see Picture #41), take the LEFT HAND STUB and cut it to fit between the exit end of the rolling guide rail and the conveyor guide rail (see Picture #42 above).

Verify the assembly and weld the mount to the correlator frame and the stub to the guide rail as shown below.

Install and weld a support under the STUB GUIDE RAIL (as shown in Picture #43 above).

Repeat the same procedures with the RIGHT HAND SIDE ASSEMBLY. Weld permanently.
Locate the air panel (see Picture #45) and mount in a dry area like the mechanical room. Pull a BLACK 1/4" O.D. AIR LINE from the air panel CHAIN TENSION AIR OUTLET (see Picture #45) to the conveyor TAKE-UP MAIN AIR MANIFOLD (see picture #46).

![Pneumatic Installation Diagram](image)

**Pic #45: Conveyor Air Panel**

**Pic #46: Air Take-Up Main Manifold**
Pull a **BLUE 1/4" O.D. AIR LINE** from the air panel **SOLENOID AIR VALVE, PORT#2** (see Picture #45) to the conveyor **ROLLER AIR CYLINDER, ROD END SIDE** (see picture #47).

Pull a **YELLOW 1/4" O.D. AIR LINE** from the air panel **SOLENOID AIR VALVE, PORT#1** (see Picture #45) to the conveyor **ROLLER AIR CYLINDER, BACK END SIDE** (see picture #48).

Finally, connect the **AIR PANEL MAIN AIR SUPPLY** to a source capable of **2SCFM @ 100PSI** (min) open the air supply and set the **CHAIN TENSION REGULATOR TO 80 PSI**. Set the **ROLLER-UP CYLINDER REGULATOR TO 40 PSI**.

**WARNING!**
IT IS IMPERATIVE TO SUPPLY THE CONVEYOR AIR PANEL WITH “CLEAN DRY COMPRESSED AIR”. ANY AMOUNT OF MOISTURE, VAPORIZED OIL OR ANY OTHER IMPURITIES WITHIN THE MAIN AIR SUPPLY MAY AFFECT THE PERFORMANCE OF THE EQUIPMENT AND LEAD TO PREMATURE WEAR OR MAJOR DAMAGE TO THE CONVEYOR ROLLER UP SYSTEM.

**WARNING!**
The material required for connecting the air supply to the air panel are the customer’s responsibility!
All work has to comply with local and national codes!
Electrical Control Installation:

- Connect the ROLLER-UP SOLENOID VALVE (see Picture #49) to the ROLLER-UP OUTPUT from your car wash controller.
- Connect the LOW AIR PRESSURE SWITCH (see Picture #49) to the LOW AIR INPUT SIGNAL FROM YOUR CAR WASH CONTROLLER.

**WARNING!**
THE AIR PANEL ROLLER-UP SOLENOID VALVES ARE AVAILABLE IN DIFFERENT VOLTAGE CONFIGURATIONS:
24 VDC, 24 VAC OR 120 VAC
ALWAYS VERIFY VALVE VOLTAGE BEFORE CONNECTING TO YOUR CAR WASH CONTROLLER OUTPUT

- Connect the CONVEYOR PULSE SENSOR to one CONVEYOR PULSE (CLOCK) INPUT SIGNAL FROM YOUR CAR WASH CONTROLLER.
Hydraulic Drive Installation:

If your MCWW conveyor has a **HYDRAULIC DRIVEN MOTOR ASSEMBLY**, you will need to supply and install two hydraulic lines from your **HYDRAULIC POWER UNIT** to the **HYDRAULIC MOTOR** (see Picture #50).

**NOTE:**

THIS HYDRAULIC MOTOR ASSEMBLY RUNS WITH THE FOLLOWING FLUIDS:

- PREMIUM GRADE HYDRAULIC OIL, 150 (SUS) VISCOSITY @ 100°F MEETING ISO 32 REQUIREMENTS
- OR
- PREMIUM WATER/GLYCOL BASED FIRE RESISTANT FLUID LIKE:
  - AQUABLUE: [http://www.tapcollc.com/aquablue2.html](http://www.tapcollc.com/aquablue2.html)

4GPM @1000PSI FOR 60 CARS PER HOUR
6GPM @1000PSI FOR 120 CARS PER HOUR

Pic #50: Conveyor Hydraulic Connections

Pic #50-A: Hydraulic Motor Rotation
**Electric Drive Installation:**

- If your MCWW conveyor has an **ELECTRIC DRIVE GEAR-MOTOR ASSEMBLY** you will have to identify what size drive motor you currently have. The drives are available with two different motors: **3 HP or 5 HP**.

- The motors are **THREE PHASE MOTORS** and can be connected either on **208 VOLTS, 230 VOLTS or 460 VOLTS @ 60 HZ** by simply using the proper wiring connection shown below.

**WARNING!**

**THE MATERIALS REQUIRED FOR CONNECTING THE CONVEYOR MOTOR ARE THE CUSTOMER’S RESPONSIBILITY!**

**ALL WORK HAS TO COMPLY WITH LOCAL AND NATIONAL CODES!**

- The drive motor can be connected to a **MOTOR STARTER** or **A FREQUENCY DRIVE (INVERTER)**. If connected to a motor starter it must have overload protection rated properly for the line voltage. (see Picture #52),

**WARNING!**

**EACH MOTOR HAS TO BE PROTECTED WITH AN OVERLOAD PROTECTED MOTOR STARTER SET AT THE MOTOR RATED FULL LOAD CURRENT FOR THE PROPER VOLTAGE:**

- **6.6 AMPS @ 208 VAC - 3PH**
- **6.0 AMPS @ 230 VAC – 3PH**
- **3.0 AMPS @ 460 VAC – 3PH**
WARNING!
EACH MOTOR STARTER AUXILIARY CONTACT
HAS TO BE CONNECTED IN SERIES WITH THE
OPTIONAL AIR RETRACT PANEL
(SEE PICTURE #22)
OR
IF YOUR CROSS-OVER™ IS NOT EQUIPPED WITH THE
RETRACT AIR PANEL, CONNECT THE OVERLOAD CONTACTS
WITH THE EMERGENCY STOP CIRCUIT (SEE PICTURE #28)

POWER FROM ELEC PANEL
208/460 VAC, 3 PH

CAR WASH CONTROLLER
OUTPUTS AC or DC

TO CONVEYOR MOTOR

Pic #52 Motor Starter Connections
If you choose to use a **MCWW OVERDRIVE® INVERTER PANEL**, follow the connection diagram below.

**WARNING!**

THE MCWW OVERDRIVE® INVERTER BOX REQUIRES ONLY: 120-208VAC/3PH

SUPPLY AT OTHER VOLTAGE MAY CAUSE EQUIPMENT DAMAGE, PERSONAL INJURIES OR FATALITIES!

**WARNING!**

IF THE DISTANCE BETWEEN THE INVERTER BOX AND THE MOTOR IS SUPERIOR TO 100 FEET, SHIELDED CABLE AS WELL AS SHIELDED CONNECTORS MUST BE USED.
Pic #54: 3HP Motor Inverter Wiring Diagram
Start-Up Procedure:

- **At START-UP**, have the conveyor set to the lowest speed, start the conveyor and increase the overall speed slowly. Make sure the chain is moving in the right direction. If not, stop the conveyor and reverse the rotation.

**NOTE:**

TO REVERSE THE ROTATION OF A HYDRAULIC MOTOR, REVERSE THE HYDRAULIC HOSES AT THE MOTOR SEE PICTURE #50 AND 50-A

TO REVERSE THE ROTATION OF AN ELECTRIC MOTOR REVERSE TWO LEAD WIRES AT THE MOTOR CONNECTION BOX OR AT THE STARTER OR INVERTER.

- **Verify** that the chain is sufficiently tight. If not, you may have to remove some chain link using a come-along.

- **Verify** the entire control input signals like CONVEYOR PULSE SENSOR, ROLLER COUNT SWITCH as well as proper operation of the ROLLER-UP RAMP and AIR PANEL.

- **Verify** that the car stops or cannot start if the air is missing at the air panel: Turn the main air supply to the air panel, pull the RELIEF VALVE DOWN (see Picture below) and try to start the conveyor. The conveyor should not start if the air pressure at the main air panel is below 50 PSI.

Warranty and Return Procedure:

Motor City Wash Works warrants this product to be free of defect in material and/or workmanship for a period of **one year** from the date of purchase. During the warranty period MCWW will at its discretion, at no charge to the customer, repair or replace this product if found defective, with a new or refurbished unit, not to include costs of removal or installation. Any product returned to MCWW for warranty has to have a **Return Material Authorization Number**. All shipping costs to MCWW are assumed by the customer. This is only a summary of MCWW’s Limited Warranty. Please, communicate with MCWW for our complete warranty.

Prior to returning any product to MCWW, the customer must call in for a **Return Material Authorization Number** and a copy of our **Return Material Authorization** Form must be completed. The RMA number must be written clearly on the outside of the shipping package and a copy of the form must be included in the package.