F2B and S2S MITTERS INSTALLATION MANUAL
Part # MTTRF360 [ . . . . ] and MTTRS360 [ . . . . ]
(ALL COLORS)

Equipment Features

- Aluminum Structure Color Skinz™ Snap On Structure Wrap
- 4 Baskets over-lapping design offers seamless cleaning coverage
- Over lapping baskets eliminates "skunk stripe possibilities"
- Less Than 8 Feet of Tunnel Space required
- 10 Feet (120") Overall Height
- Easy to replace "Looped" style cloth

Equipment Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Spec</th>
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</thead>
<tbody>
<tr>
<td>TUNNEL LENGTH</td>
<td>84&quot;</td>
</tr>
<tr>
<td>TUNNEL WIDTH</td>
<td>144&quot;</td>
</tr>
<tr>
<td>UNIT HEIGHT</td>
<td>120&quot;</td>
</tr>
<tr>
<td>VEHICLE CLEARANCE</td>
<td>90&quot;</td>
</tr>
<tr>
<td>ELECTRICAL</td>
<td>MOTOR: 1.5 HP-3 PH 6.6-3.0 AMPS/208-460 VAC</td>
</tr>
<tr>
<td>PNEUMATICS</td>
<td>N/A</td>
</tr>
<tr>
<td>WATER</td>
<td>RECLAIMED OR FRESH: 4 GPM @ 40 PSI</td>
</tr>
</tbody>
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Pic #1 F2B Mitter Working Envelope

Pic #2 F2B Elevation View

Pic #3 F2B Mitter Dimensions
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**SIDE-TO-SIDE MITTER**  
**MTTRS360**

<table>
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| ELECTRICAL               | MOTOR: 1.5 HP-3 PH  
                        | 6.6-3.0 AMPS/208-460 VAC |
| PNEUMATICS               | N/A           |
| WATER                    | RECLAIMED OR FRESH:  
                        | 4 GPM @ 40 PSI  |

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**Pic #4 S2S Mitter Working Envelope**

**Pic #5 S2S Elevation View**

**Pic #6 S2S Mitter Dimensions**
**Suggested Installation Tools and Materials**

- ✔ Hammer Drill with 5/8” Drill Bit
- □ Sledge Hammer
- □ Set of Standard Combo Wrenches
- □ Measuring Tape
- □ 6’ Step Ladder
- □ (12) Wedge Anchor Bolts 5/8” x 6”
- □ Safety Goggles
- □ Torpedo Level
- □ Pry-Bar
- □ 1/2” Polyflow Tubing

**Notes and safety Symbols**

Where necessary, important points will be highlighted in this manual, using the following symbols:

- ![NOTES: PROVIDES FURTHER INFORMATION!](image)
- ![STOP! PRECAUTION TO TAKE TO AVOID EQUIPMENT MALFUNCTION OR ERROR!](image)
- ![WARNING! DANGEROUS SITUATION WHICH MAY CAUSE EQUIPMENT DAMAGES, PERSONAL INJURIES OR FATALITIES!](image)

Always follow all “Notes”, “Warning” and instructions. Not doing so may have serious consequences on the overall performance of the equipment and/or the safety of the people working on the equipment!

**Installation Procedures**

- ✔ Upon receiving your MCWW equipment, open all boxes and crates and verify that you have all the required components as well as there are no damages to the equipment. Verify also that you have all your installation material.

- □ Remove packaging material covering your MCWW MITTER and bring it to the wash in the area where it will be installed and verify that the area is sufficiently large for the MCWW MITTER WORKING ENVELOPE and DIMENSIONS (see Picture #1 though #6).
Remove the MITTER off the shipping crate with a FORK LIFT TRUCK and secure the MITTER HEAD ASSEMBLY to the forks.

**WARNING!**
STRAP MITTER HEAD ASSEMBLY SECURELY TO THE FORKS BEFORE RAISING THE EQUIPMENT

Raise the HEAD ASSEMBLY above the height of the support legs. Remove the legs from the shipping crate and dispose of the crate. Bring the SUPPORT LEGS under the HEAD ASSEMBLY and secure to the mount plates (see Picture #7 below). After the legs are secured to the head assembly, position the BACK of the DRIVER SIDE LEG 45" AWAY FROM THE INSIDE EDGE OF THE INSIDE GUIDE RAIL (see Picture #7 below). Secure the driver side leg to the floor using ONE 5/8" ANCHOR BOLT.

Square the MITTER with the conveyor and verify that the BACK OF THE PASSENGER SIDE LEG is located ABOUT 144" AWAY FROM THE BACK OF THE DRIVER SIDE LEG (see Picture #8).

Secure the passenger side leg with FOUR 5/8" X 6"L ANCHOR BOLTS. Secure the driver side leg with three additional anchor bolts.

Open the box containing the cloth. Remove the mitter basket end cap (see Picture # 9), slide out the rod about 12 to 18" and then slide a piece of wash cloth thru the rod (see picture #10). Push the cloth into the basket receiver. Repeat until the basket is filled. Reinstall the end cap.

48 PIECES WILL BE REQUIRED FOR A COMPLETE S2S MITTER

64 PIECES WILL BE REQUIRED FOR A COMPLETE F2B MITTER
Pic #9 Basket End Cap

Pic #10 Looped Cloth
**Color Skinz™ Wrap Installation**

Locate the boxes containing the **COLOR SKINZ™** wraps and install on each legs and frame cross beams.

SELECT THE PROPER COLOR SKINZ™ COVER. SNAP ONE SIDE OF THE LIPS, SLIDE THE COVER AROUND THE LEG AND FINALLY SNAP THE SECOND LIP PASSED THE EXTRUSION EDGE (see Picture #9-B)
Water Supply Installation

- **Connect** each mitt water manifold to a water source capable of at least 4GPM @ 40 PSI. Fresh or reclaimed water can be either used.

Electrical Installation

- **Open** the motor connection box, and connect the **1.5HP MOTOR** following the diagram below (see Picture #13) for the voltage available at your site. The motor can operate at different voltages: **208, 230 or 460 VAC, 3 PH**. Connect to a starter unit, protected by an **OVERLOAD RELAY SET AT THE MOTOR RATED FULL LOAD CURRENT FOR THE PROPER VOLTAGE** (see Picture #14).

**WARNING!**

**THE MOTOR HAS TO BE PROTECTED WITH AN OVERLOAD RELAY 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
You may also use an INVERTER UNIT to run the MITTER MOTOR. If you are using A MOTOR CITY WASH WORKS INVERTER BOX, the only available voltage for the inverter box is 208VAC-3PH.

**WARNING!**

CONNECT YOUR MOTOR CITY WASH WORKS INVERTER BOX TO 208VAC-3PH ONLY!

DO NOT CONNECT TO 460VAC-3PH

MAJOR DAMAGES WILL OCCUR TO YOUR INVERTER UNIT!
Start Up Procedure:

- Turn the MOTOR ON and verify proper operation of the mitter. If you are using an inverter unit to operate the motor, set the speed to desired level.

**WARNING!**
DO NOT RUN THE MITTER AT SPEED EXCEEDING 45 RPM!
MEASURE SPEED AT THE GEARBOX PITMAN ARM
RUNNING THE MITTER AT HIGHER SPEED MAY DAMAGE OR WEAR PREMATURELY THE DRIVE MECHANISMS

- While the motor is still running, Turn the water ON and adjust the nozzle to spray in the direction of the cloth.
- Test a vehicle.

Warranty and Return Procedure:

Motor City Wash Works warrant this product to be free of defect in material and/or workmanship for a period of one year from the date of the purchase by the customer from MCWW. 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, but 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 cost to MCWW is assumed by the customer. This is only a summary of MCWW Limited Warranty. Please, communicate with MCWW for our complete warranty. Prior to returning any product to MCWW, the customer must call in for Return Material Authorization Number and a copy of our Return Material Authorization Form filled and completed. The RMA number must be written clearly on the outside of the shipping package and copy of the form must be included in the package.