EQUIPMENT MANUAL

WHEEL AND TIRE APPLICATOR

MOTOR CITY WASH WORKS®

FOAM WHEEL & TIRE APPLICATOR INSTALLATION MANUAL

Part # 7APPLFOMCTA0001
7APPLFOMWTA0002
7APPLFOMCTA0003

Equipment Data

Solution Volume ..... 4 GPM (max)
Pneumatic ..... 60 PSI (max)
Electrical ..... N/A
Temperature ..... N/A

Description Of Contents

☑ 2 - Wheel & Tire Applicator Trees ..... Pic #1

☐ 4 - Valves Assemblies ..... Pic #2

Suggested Installation Tools and Materials

☑ 7/8” Open Wrench or Crescent Wrench

☐ Ball Peen Hammer

☐ 3/8”-3” Anchor Bolts (Qty 4)

☐ 1/2” Natural Polyethylene Tubing

☐ 1/2”x3/8”x3/8” Tee Push-On Fitting

☐ 1/2” Hammer Drill with 3/8” Drill Bit

☐ 9/16” Open Wrench or Crescent Wrench

☐ 3/8” Black Polyethylene Tubing

☐ 3/8”x3/8”x3/8” Tee Push-On Fitting

☐ ®Zip-Tie

Installation Instructions

☑ **Using** a 7/8” open wrench, secure two valve assemblies into each **WTA** base (see Pic#3).

☐ **Locate** the area where the **WTA** applicators will be installed. Make sure that the under floor is not equipped with heat apparatus if you chose to secure the applicators with floor anchors. Also allow a sufficient distance between the applicators and the cleaning equipment, the chemicals used in tire and wheel cleaning often require dwell times (“soaking time”) for the chemicals to work.

☐ **Position** both applicators in line and perpendicular to the conveyor, the first one on the driver side and the next one on the passenger side. **Measuring** from the inside edge of the conveyor inside guide rail to the applicator base (see Drawing #1).

☐ **Secure** the applicator to the floor using 3/8” concrete fasteners or equivalent.

☐ **Position** the wheel sensor (floor mat) ahead of the new **WTA** by measuring the distance from the applicator base to the sensor exit edge (see Drawing #1).

Plumbing

☑ **Using** polyethylene tubing 3/8" O.D. for air and 1/2" O.D. for solution, pull both lines from the back room unit (dilution station) to the **WTA** area in the wash bay. Terminate the air line (3/8" O.D) with a 3/8"X3/8"X3/8" tee (see Pic #4) and the solution line (1/2" O.D.) with a 1/2"X3/8"X3/8" fitting. Run additional 3/8" air lines from both tees to each applicator (see Drawing #3).

☐ **Connect** the air line tubing as shown on Drawing #2 (solution to the top fitting and air to the bottom).

Operation

☑ **At** start up, open both the air and solution ball valves completely on each applicator. Turn **ON** the solution and air supplies from the back room.

☐ **Adjust** the solution pressure to 40 PSI and the air pressure to 20 PSI.

☐ **After** the solution and the air have reached the applicators, adjust the ball valves. Adjust the flow by slightly closing the top ball valve of the applicator spraying the most solution, balance the flow between both applicators: Increasing the flow of solution delivered to the applicators will generate "wetter" foam. Decreasing the amount will generate "dryer" foam from the applicators.

☐ **Adjust** the air pressure to obtain the desired wheel coverage: increasing the air pressure to the applicator will increase the spray angle but may reduce the volume of solution delivered to the applicator, therefore making the foam "dryer". Decreasing the air pressure will decrease the spray angle but may also increase the volume of solution delivered to the applicators and make the foam "wetter". Adjust both air ball valves to balance the air flow between the two applicators.

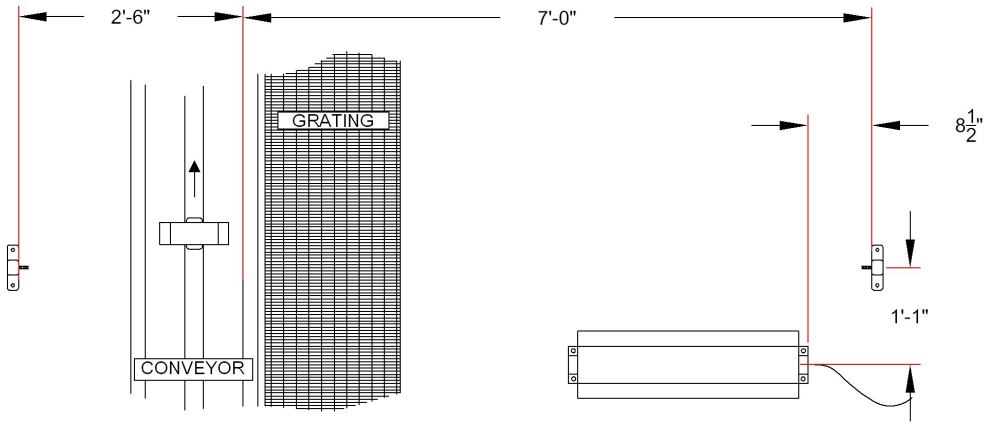
☐ **Finally** adjust the direction of each nozzle in order to optimize the coverage of most of wheels to be cleaned.

Preventive Maintenance Tips

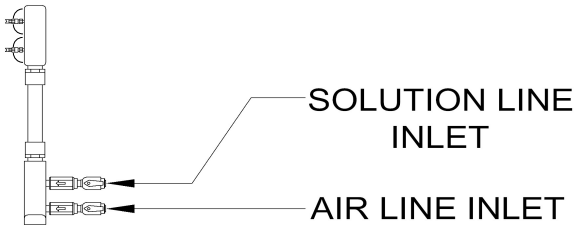
☑ **Inspect** each nozzle for wear and/or visible damages. Replace any damaged nozzles.

☐ **Remove** the foamer generator assembly from the **WTA** base, remove the plastic mesh and clean it periodically with warm soapy water. Keeping the foamer generator clean from deposits will guarantee the applicators maximum efficiency... for years to come!!!

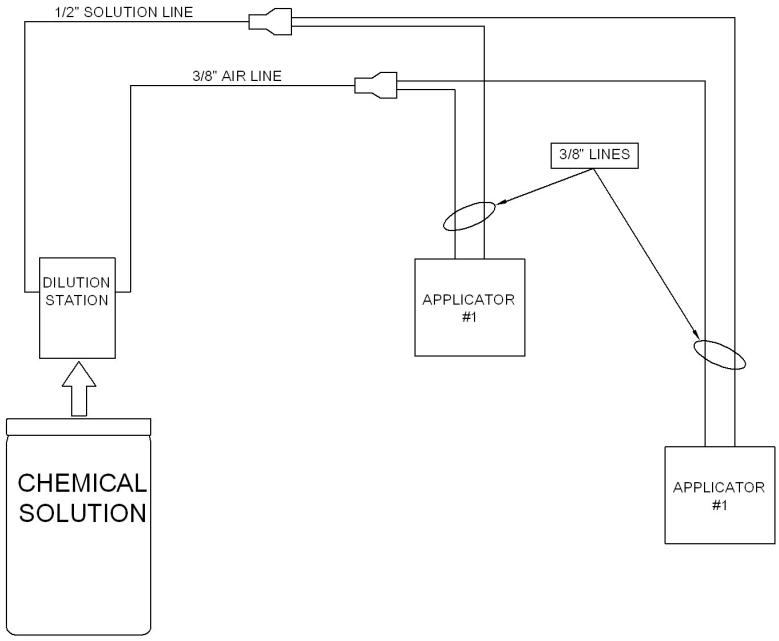
Drawings



DWG #1: WTA Positions



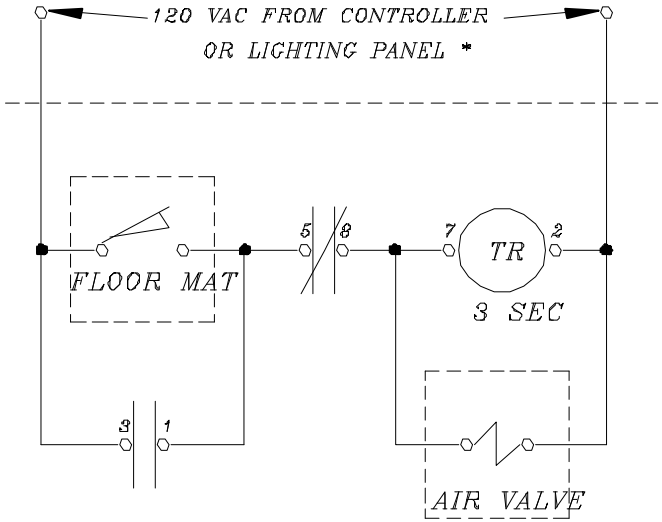
DWG #2: WTA Connections



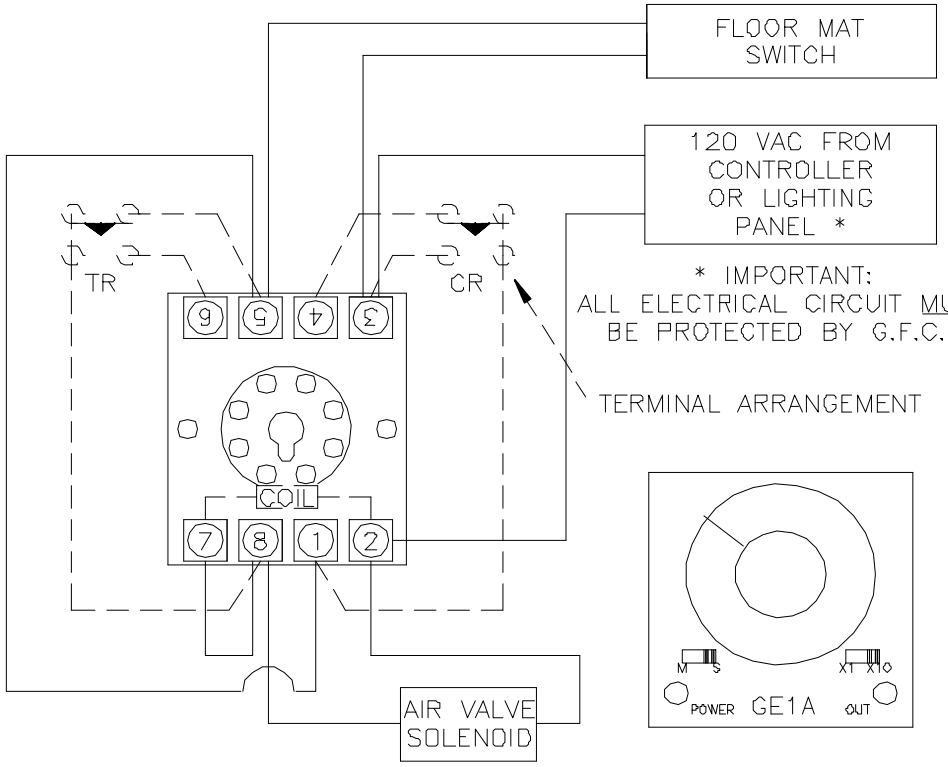
DWG #3: WTA Plumbing

NOTES:

1) WIRING DIAGRAM S FOR A WHEEL AND TIRE APPLICATOR TIME DELAY RELAY ALLOWING THE APPLICATOR TO STAY ON FOR A PRESET PERIOD OF TIME AFTER THE TIRE HIT THE TREADLE.
2) ADJUST TIME AS DESIRED.
3) SOLID LINE REPRESENT FIELD WIRING BY A QUALIFIED ELECTRICIAN.
4) FOLLOW ALL LOCAL ELECTRICAL CODES.
5) PROTECT ELECTRICAL CIRCUIT WITH G.F.C.I.



ELECTRICAL SCHEMATIC



GE1A TIMER FRONT VIEW

.XX ± .010
.XXX ± .005
.XXXX ± .001
Fract. ± 1/32"
Unless otherwise specified

Scale: NOT TO SCALE

MOTOR CITY WASH WORKS

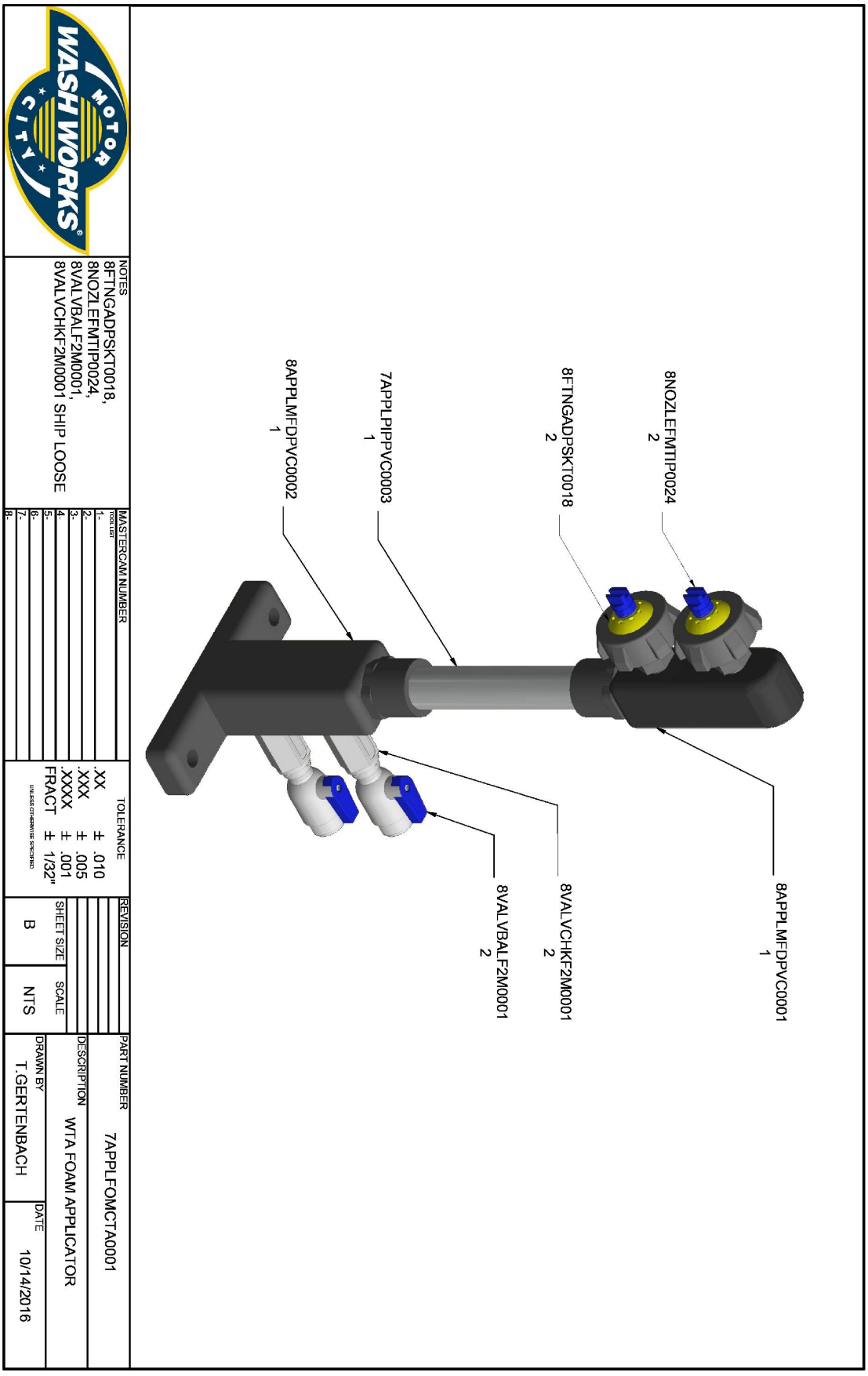
Part Number:

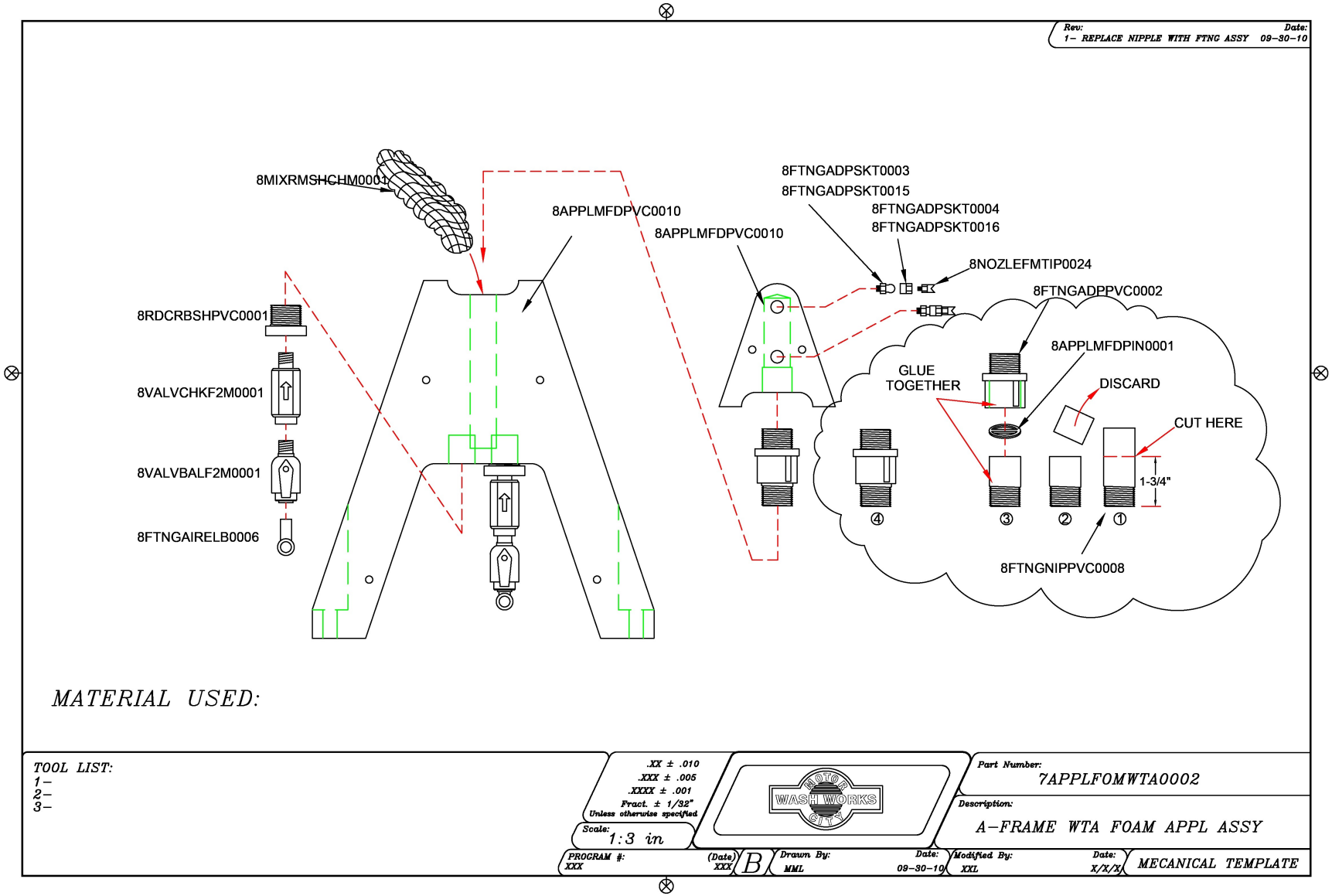
Description:
WHEEL AND TIRE APPLICATOR TIMER BOX
[IDEC 8 PIN TIME DELAY RELAY, MODEL# GE1A-B10MA110]

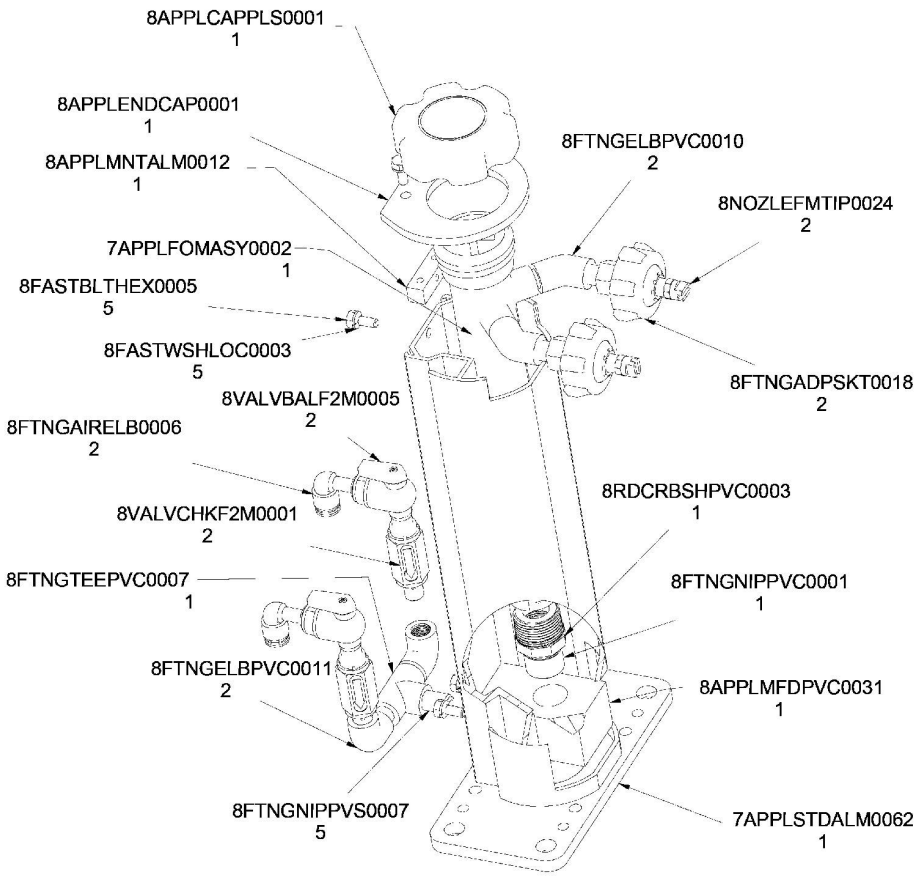
File-Name: | A | Drawn By: | Date: | Approved By: | Date: | Rev: | Date:

REV 1.4 8-9-21

Exploded Views







MATERIAL:

MOTOR WASH WORKS CITY	NOTES	MASTERCAM NUMBER TOOL LIST 1- 2- 3- 4- 5- 6- 7- 8-		REVISION	PART NUMBER 7APPLFOMCTA0003	
					DESCRIPTION WTA FOAM APPL CS ASSY	
				SHEET SIZE: B / SCALE: 1:1	DRAWN BY: DOUG CALVIN	DATE: 7/22/2019

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.** 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.

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