Project Title: Hinged Tire Shine Shield

- Allows for easy access to the spray manifolds that deliver the tire shine liquid to the brush to correct clogs, broken nozzles, etc.
- Tray design allows for the rapid expansion and contraction of the plexiglass material to drastically reduce the likelihood of cracking or warping.
- Reduces maintenance time for shield replacement or cleaning.
- Increases adjustability of spray manifold to reduce waste of tire shine liquid.

Product Image:

Project Background:

Why: Current tire shine shield design restricts adjustment to the shield and manifold. Maintenance and cleaning requires untimely disassembly. Longevity concerns with shield.
Who: Project Lead – Josh Littell

What: Improved tire shine shield design with hinge mechanism to improve maintenance, adjustments, and longevity

Where: Will be standard equipment after launch, retrofit kit will be available to all sites looking for an improved tire shine system.

When: Retrofit kit target release date Q1 2022. Orderable in new wash Q1 2022

Install Test Site(s): Proof of concept designs at Jenison (both sides) and driver's side at Hudsonville. Launch design is on passenger's side at Hudsonville.

Overview: The current tire shine shield design fully combines the shield, manifold, and how it is mounted to the main brush structure. This type of design does not provide for easy maintenance, and essentially "locks in" the orientation of the spray manifold and shield. The new "Hinged Tire Shine Shield" design separates the mounting method of the manifold and the shield, which allows for more precise adjustments on both features independently. In addition, this new design adds a hinge mechanism to the shield for greater access to the manifold, nozzles and check valves. The plexiglass shield is subject to high fluctuations in temperature in the blower room, which can warp or crack the shield due to the inevitable thermal contraction and expansion. This design allows for that repetitive growing and shrinking to take place and not place unnecessary stress on the shield, resulting in longer life for the shield. This upgrade, in the case of the retrofit kit, is recommended for all sites desiring a long-lasting tire shine unit that is easier to adjust and maintain. The design will be the new standard on all tire shine units sent to washes post launch.

Criteria:

For Sites to be built:

Wash must be ordered post January 1, 2022, or submit a change order through project manager to new part number for sales orders in existence

For existing sites via Retrofit Kit:

1. Tommy Tire Shine Unit with Hydraflex (Spray) style manifold
2. Simple mechanical skills and tools required to follow retrofit instructions

How to Order:

- Retrofit Kit for a single Tire Shine unit: P-TB-278-A (2 required to complete DS and PS both)
- All orders post Q1 2022 will be delivered with the new standard.

Obsolescence:

E-F1007-LM-DB-EMN [Hydraulic Tire Shine]: Obsolete and inactivated

- E-F1007-LM-WO-HYD-K to replace hydraulic tire shine unit

E-F1007-LM-DB-EMY [Electric Tire Shine]: Obsolete and inactivated

- E-F1007-LM-WO-ELEC-K to replace electric tire shine unit

Appendix:

N/A