	TOOL USE INSTRUCTION	
	TOOL NUMBER: TSN01172-300-A	DATE: 09/18/24
	TITLE: KINETIC FLUSH CART	DOC REV: 1



Tool Function:

To flush the kinetic hard lines in the vehicle when performing a replacement due to contamination in the kinetic system

Labor Code Reference: 187691017

Related Tools and Training:

- RiDE

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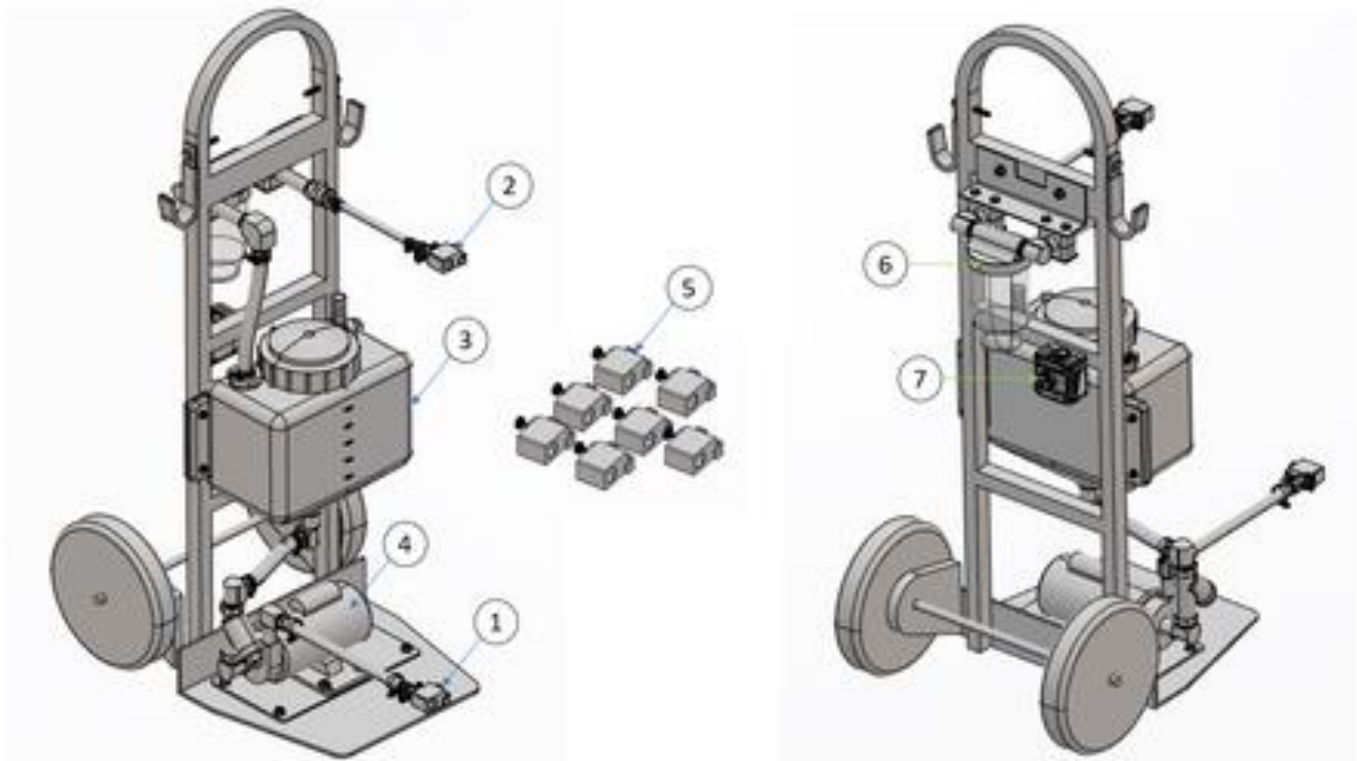
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OVERVIEW

Component Guide



1. Output Hose to APMU
2. Input Hose into line at damper
3. Reservoir
4. Hydraulic pump
5. Kinetic Line Plugs
6. Filter
7. ON/OFF switch

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⚠ **WARNING** ⚠

Do not perform procedure if any components are missing or damaged.
Consult the Rivian Service Tool Catalog for replacement components

PRIOR TO USAGE

Vehicle side:


- Depressurize the kinetic system using RiDE
- Evacuate the kinetic system using the manual cart or Bosch cart

Tool side:



- Inspect lines for leaks or cracks on lines and fittings
- Makes sure the main tank on the Flush cart is at 50%
- Inspect and replace filter prior to use (if necessary)

Maintenance:

- Inspect the Filter every 6 months and Replace every 12 months (1 Year)
- o Replacement filter <https://www.mcmaster.com/4340K12/>
- Drain reservoir and refill with new fluid every 12 months (1 year)

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TOOL USAGE

STEP	DIRECTIONS	VISUAL AID
1	Ensure that Kinetic system on vehicle is depressurized and fluid evacuated from the vehicle using RiDE and the kinetic cart (Manual or Bosch)	
2	Remove the x2 rear undercover panels to gain access to APMU and rear service ports	
3	<p>If dampers are not present on vehicle (previously removed) use the Kinetic Line Plugs (5) to plug all H1 and H2 lines at the damper locations. Otherwise move on to step 4.</p> <p>USE THE BUILT-IN CLIP TO SECURE THE LINE TO THE FITTING</p> 	



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Locate the APMU on the rear of the vehicle (in front of the Kinetic reservoir/pump assembly).

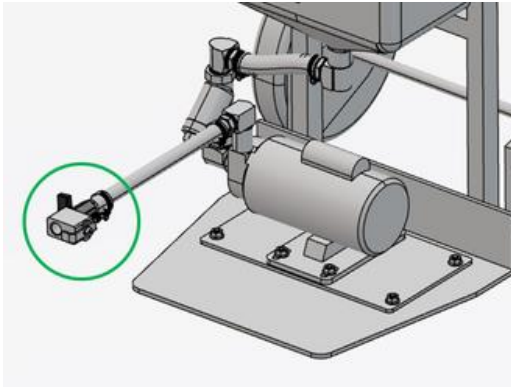
Mark or identify the H1 and H2 lines before disconnecting

Disconnect the lines, harnesses, and remove the APMU



Connect Output hose (1) from the flush cart to H1 hard line that came out of the APMU

USE THE BUILT-IN CLIP TO SECURE THE LINE TO THE FITTING



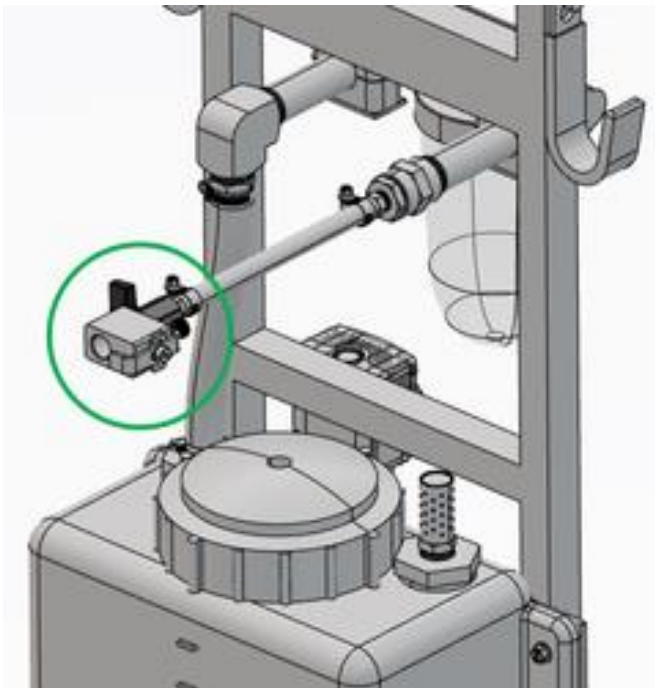
Starting with the damper furthest from the APMU (front left), locate and disconnect the H1 line.

If dampers were previously removed, remove the line plug at this location.

Connect the H1 line from the damper to the input line (2) of the flush cart.

Look for H1/H2 marking at damper assembly to determine line to flush

USE THE BUILT-IN CLIP TO SECURE THE LINE TO THE FITTING





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7 Plug in the cart to the 110V power outlet (7)

8 With cart connected to power and all necessary lines hooked up, turn on the cart with the switch panel (6) and start to flow the kinetic fluid through the hydraulic lines on the vehicle.


You will only have to run the flush on each line for approximately 3 min. to ensure it is cleaned out.

9 After each flush, turn **OFF** the machine using the switch panel (6) and move the lines to the appropriate location to continue flushing each one.

Be sure to connect the line that was just flushed back onto the damper before performing the next line flush! This will prevent the kinetic fluid from coming out that line and finding the path of least resistance.

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10	<p>Continue to flush the dampers in the order below:</p> <p>Lines not actively being flushed should be connected to a damper or plugged by using the Kinetic Line Plugs (5)</p> <p>H1:</p> <ol style="list-style-type: none">1. H1 APMU > H1 Left front damper2. H1 APMU > H1 Right front damper3. H1 APMU > H1 Left rear damper4. H1 APMU > H1 Right rear damper <p>H2:</p> <ol style="list-style-type: none">1. H2 APMU > H2 Left front damper2. H2 APMU > H2 Right front damper3. H2 APMU > H2 Left rear damper4. H2 APMU > H2 Right rear damper	
12	Replace all necessary components on the vehicle	
11	<p>After all required components are replaced, be sure to perform an Evacuation/Drain using the kinetic cart to REMOVE ALL remaining kinetic fluid in the hard lines!</p> <p>This will ensure that the lines are empty before a vacuum and fill is performed on the vehicle.</p>	
13	When done with the machine, loop the Output and Input lines back in their respective hooks as well as the outlet plug. Wipe down tool to ensure no excess kinetic fluid is on the machine and store in allocated spot in service center.	

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REVISION LOG

REV	REASON FOR CHANGE	DATE
1.0	Initial Release	9/18/24