

TOOL USE INSTRUCTION

RIVIAN	TOOL NUMBER	TSN01710-300
	TITLE	OIL INJECTOR 1234YF (RB100-EV ONLY)
	REV - DATE	REV 1 04/07/2026

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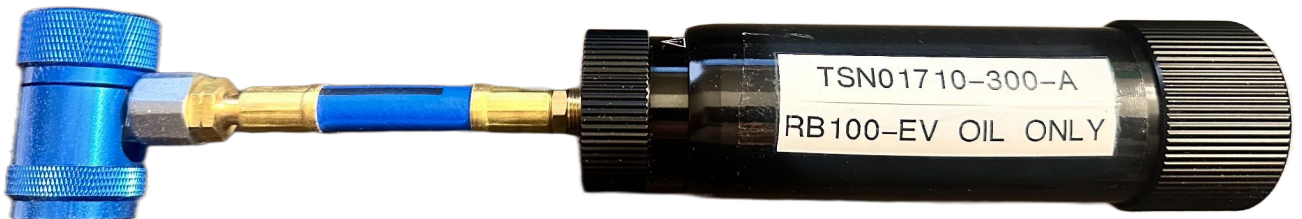
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TOOL FUNCTION

Used to inject RB 100-EV POE oil into the AC system on Rivian vehicles equipped with Mahle compressor.





WARNING

Do not perform procedure if tool is damaged or missing parts. Consult the Rivian Service Tool Catalog for replacement components.

Failure to follow guidelines outlined in this document could result in injury and/or property damage.

SAFETY GUIDELINES

<p>1</p>	<ul style="list-style-type: none"> ● eye protection ● gloves 	
<p>2</p>	<ul style="list-style-type: none"> ● chemical or poison 	



SPECIFICATIONS

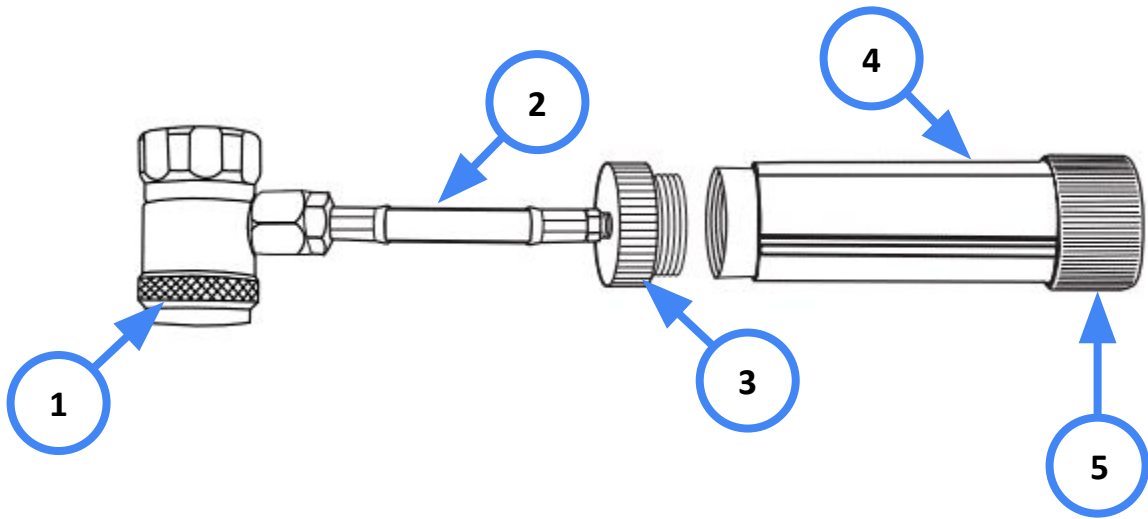
Weight: 3.0 Lbs
Overall Dimensions:

LABOR CODES

2646- Refrigerant System

OTHER TOOLS REQUIRED




Rivian Approved AC machine



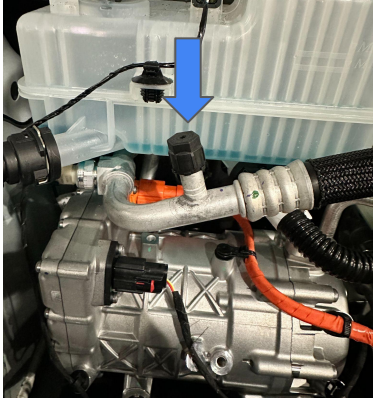
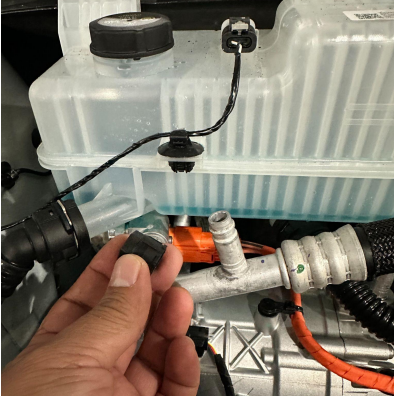

COMPONENT GUIDE

ITEM	QTY	DESCRIPTION
1	1	R1234YF Low Side Coupler
2	1	Nylon Barrier Blue Hose
3	1	Spin Off Threaded Cap
4	1	Heavy Duty Anodized Aluminum Body
5	1	Easy Twist Handle

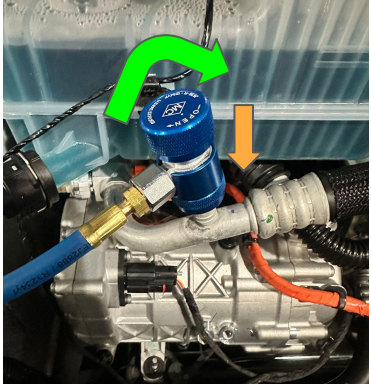


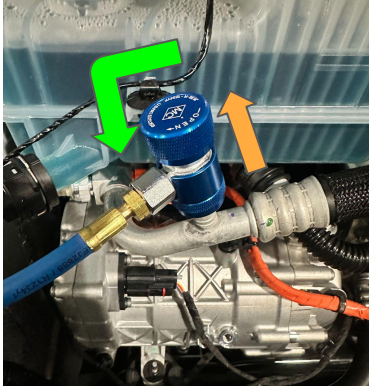


<p>1</p>	<p>ONLY USE RIVIAN APPROVED RB-100EV POE Refrigerant Oil !</p>																																													
<p>2</p>	<p>Remove spin off threaded cap</p>																																													
<p>3</p>	<p>Pour the amount needed of the approved RB100-EV POE oil into the cylinder. There is a measuring scale on the side of the bottle.</p>	 <table border="1" data-bbox="1156 1110 1292 1294"> <thead> <tr> <th></th> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>25</td> <td>1/4</td> <td></td> <td>7.5</td> </tr> <tr> <td>24</td> <td></td> <td></td> <td>ml</td> </tr> <tr> <td>23</td> <td></td> <td></td> <td></td> </tr> <tr> <td>22</td> <td>1/2</td> <td></td> <td>15</td> </tr> <tr> <td>21</td> <td></td> <td></td> <td>ml</td> </tr> <tr> <td>20</td> <td></td> <td></td> <td></td> </tr> <tr> <td>19</td> <td>3/4</td> <td></td> <td>22.5</td> </tr> <tr> <td>18</td> <td></td> <td></td> <td>ml</td> </tr> <tr> <td>17</td> <td></td> <td></td> <td></td> </tr> <tr> <td>16</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		A	B	C	25	1/4		7.5	24			ml	23				22	1/2		15	21			ml	20				19	3/4		22.5	18			ml	17				16			
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<p>4</p>	<p>Re-install the threaded cap onto the heavy duty anodized aluminum body</p>																																													



<p>1</p>	<p>Using the Rivian Approved AC machine, follow the prompts on the AC machine on when to Vaccum and inject oil into the system of the vehicle.</p>	
<p>2</p>	<p>When ready, Locate the LOW SIDE port on the vehicle.</p>	
<p>3</p>	<p>Remove the cap to access the port</p>	
<p>4</p>	<p>Make sure the LOW SIDE coupler on the tool is CLOSED (turn counter clockwise) . This will allow you to connect to the port on the vehicle.</p>	



<p>5</p>	<p>Connect TSN01710-300 to the low side port on the vehicle and OPEN (Turn Clockwise) the valve on the coupler. This will open the shdrer on the port to allow oil to be pushed into the system.</p>	
<p>6</p>	<p>At the bottom of the bottle, start turning the easy twist handle to push oil into the system</p> <p>Approximately 3 1/4 turn(s) for 1/4 oz oil.</p>	
<p>7</p>	<p>As you turn the easy twist handle, the scale will shrink and oil will be pushed into the system. The scale will show how much is being injected into the system.</p>	
<p>8</p>	<p>Once the correct amount of oil has been injected into the system, CLOSE the valve on the coupler (turn counterclockwise) and disconnect from the LOW SIDE port on the vehicle.</p>	



9	Continue to follow the prompts on the AC machine to complete filling procedure of the AC machine	
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BASIC MAINTENANCE GUIDE

TASK	FREQUENCY
Inspect for damage	Before each use
Empty any unused RB-100EV POE oil in the bottle prior to using. Always use NEW oil.	Before each use
Store in designated location	After Each Use



PROBLEM	SOLUTION
Oil is unable to injected into the system	Low side coupler on tool is NOT OPEN
It is hard to turn the Easy twist handle	Threads are possible damaged. Replace the assembly
Unable to remove the Spin off threaded cap	Unscrew the Easy twist handle to expose more of the measuring scale tube to allow more surface area to grip and twist the spin off threaded cap





DANGER

Risk of electrocution or electric shock



WARNING

Risk of minor injury



DANGER

Risk of major injury such as

- fire
- chemical or poison
- crushing / maiming
- death



CAUTION

Risk of

- damage to vehicle or property
- data disruption
- voiding warranty



CAUTION

Risk of Pinch Point

- keep hands and fingers clear of all moving parts.



PPE REQUIRED

IMPORTANT

Refer to service manual for AC charge/Discharge procedure prior to using the tool

NOTE

Refer to AC machine TUI instructions prior to servicing the AC system

REV	DATE	CHANGE DESCRIPTION
1	04/07/2026	Initial release

