



# RIVIAN AUTOMOTIVE, LLC

## Application for Certification - Part 1

2025 Model Year

**EPA Manufacturer Code: RIV**

**Test Group: SRIVT00.0172**

**Durability Group: N.A.    Evaporative Family: N.A.**

<b>Test Group Description:</b>	Battery Electric Vehicle
<b>Applicable Standards:</b>	U.S. EPA: Tier 3 Bin 0 MDPV CA: ZEV MDV
<b>Carlines Covered:</b>	Rivian R1T Dual Large (22in) Rivian R1S Dual Large (22in) Rivian R1T Performance Dual Large (22in) Rivian R1S Performance Dual Large (22in) Rivian R1T Dual Large (20in) Rivian R1S Dual Large (20in) Rivian R1T Performance Dual Large (20in) Rivian R1S Performance Dual Large (20in)
<b>Document Date:</b>	10/08/2024

**For Questions, Contact:**  
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Irvine, CA 92606

Mr. Tristin Rojeck  
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Office of Mobile Sources  
Environmental Protection Agency  
2000 Traverwood, Ann Arbor, MI 48105

Subject: MY 2025 Rivian Medium-Duty Vehicle Initial Application for issuance of Certificate of Conformity for Test Group SRIVT00.0172.

Rivian believes that all vehicles within this test group comply with all applicable regulations within Code of Federal Regulations Title 40 Parts 85, 86, 600, and California Code of Regulations Title 13.

Vehicle Category:	Medium Duty Passenger Vehicle (8532 lbs. GVW)
Test Group:	SRIVT00.0172
Evaporative Family:	N/A
Federal Standard:	Tier 3 Bin 0
California Standard:	ZEV

Test Group Description:

1 - Rivian R1  
7 - 7 Module Battery  
2 - 2 AC Motors

Vehicles Covered by this certificate:

Rivian R1T Dual Large (22in)  
Rivian R1S Dual Large (22in)  
Rivian R1T Performance Dual Large (22in)  
Rivian R1S Performance Dual Large (22in)  
Rivian R1T Dual Large (20in)  
Rivian R1S Dual Large (20in)  
Rivian R1T Performance Dual Large (20in)  
Rivian R1S Performance Dual Large (20in)

Your early review and issuance of the certificate will be greatly appreciated. If you have any questions, please email me at [sepzaker@rivian.com](mailto:sepzaker@rivian.com) or my phone number available on CDX.

Sep Zaker  
Director, Homologation



2/10/08/2024





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Mr. Tristin Rojeck  
Compliance and Innovative Strategies Division  
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2000 Traverwood, Ann Arbor, MI 48105

Subject: MY 2025 Rivian Medium-Duty Vehicle OBD letter for issuance of Certificate of Conformity for Test Group SRIVT00.0172.

Rivian is a manufacturer of Battery Electric Vehicle, including R1T and R1S. Battery Electric Vehicles are exempt from OBD II requirements.

Vehicle Category:	Medium Duty Passenger Vehicle (8532 lbs. GVW)
Test Group:	SRIVT00.0172
Evaporative Family:	N/A
Federal Standard:	Tier 3 Bin 0
California Standard:	ZEV

Test Group Description:

1 - Rivian R1  
7 - 7 Module Battery  
2 - 2 AC Motors

Vehicles Covered by this certificate:

Rivian R1T Dual Large (22in)  
Rivian R1S Dual Large (22in)  
Rivian R1T Performance Dual Large (22in)  
Rivian R1S Performance Dual Large (22in)  
Rivian R1T Dual Large (20in)  
Rivian R1S Dual Large (20in)  
Rivian R1T Performance Dual Large (20in)  
Rivian R1S Performance Dual Large (20in)

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10/08/2024





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Mr. Tristin Rojeck  
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2000 Traverwood, Ann Arbor, MI 48105

Subject: MY 2025 Rivian Medium-Duty Vehicle Durability letter for issuance of Certificate of Conformity for Test Group SRIVT00.0172.

Rivian is a manufacturer of Battery Electric Vehicle, including R1T and R1S. Battery Electric Vehicles (no tailpipe emissions) are exempt from emissions equipment durability requirements.

Vehicle Category:	Medium Duty Passenger Vehicle (8532 lbs. GVW)
Test Group:	SRIVT00.0172
Evaporative Family:	N/A
Federal Standard:	Tier 3 Bin 0
California Standard:	ZEV

Test Group Description:

- 1 - Rivian R1
- 7 - 7 Module Battery
- 2 - 2 AC Motors

Vehicles Covered by this certificate:

- Rivian R1T Dual Large (22in)
- Rivian R1S Dual Large (22in)
- Rivian R1T Performance Dual Large (22in)
- Rivian R1S Performance Dual Large (22in)
- Rivian R1T Dual Large (20in)
- Rivian R1S Dual Large (20in)
- Rivian R1T Performance Dual Large (20in)
- Rivian R1S Performance Dual Large (20in)

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Sep Zaker  
Director, Homologation



10/08/2024





14600 Myford Road  
Irvine, CA 92606

Mr. Steven Hada  
Emissions Certification and Compliance Division (ECCD)  
Air Resources Board Laboratory  
9528 Telstar Avenue, El Monte, CA 91731

Subject: MY 2025 Rivian Medium-Duty Vehicles Initial Application for issuance of an Executive Order for Test Group SRIVT00.0172.

Rivian believes that all vehicles within this test group comply with all applicable regulations within Code of Federal Regulations Title 40 Parts 85, 86, 600, and California Code of Regulations Title 13.

Vehicle Category:	Medium Duty Passenger Vehicle (8532 lbs. GVW)
Test Group:	SRIVT00.0172
Evaporative Family:	N/A
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Test Group Description:

1 - Rivian R1  
7 - 7 Module Battery  
2 - 2 AC Motors

Vehicles Covered by this certificate:

Rivian R1T Dual Large (22in)  
Rivian R1S Dual Large (22in)  
Rivian R1T Performance Dual Large (22in)  
Rivian R1S Performance Dual Large (22in)  
Rivian R1T Dual Large (20in)  
Rivian R1S Dual Large (20in)  
Rivian R1T Performance Dual Large (20in)  
Rivian R1S Performance Dual Large (20in)

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3/10/08/2024



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## **01.00.00 Communications**

### **01.01.00 Mailing Information**

Rivian Automotive, LLC  
14600 Myford Road  
Irvine, CA 92606  
Attention: Sep Zaker

### **01.01.01 Certification Information**

Rivian Automotive, LLC  
14600 Myford Road  
Irvine, CA 92606

### **01.01.02 Responsible official**

Primary Contact:  
Sep Zaker, Director, Homologation  
[sepzaker@rivian.com](mailto:sepzaker@rivian.com)

## **02.00.00 Confidential Information**

### **02.01.00 Statement of confidentiality**

### **02.02.00 Test vehicle selection**

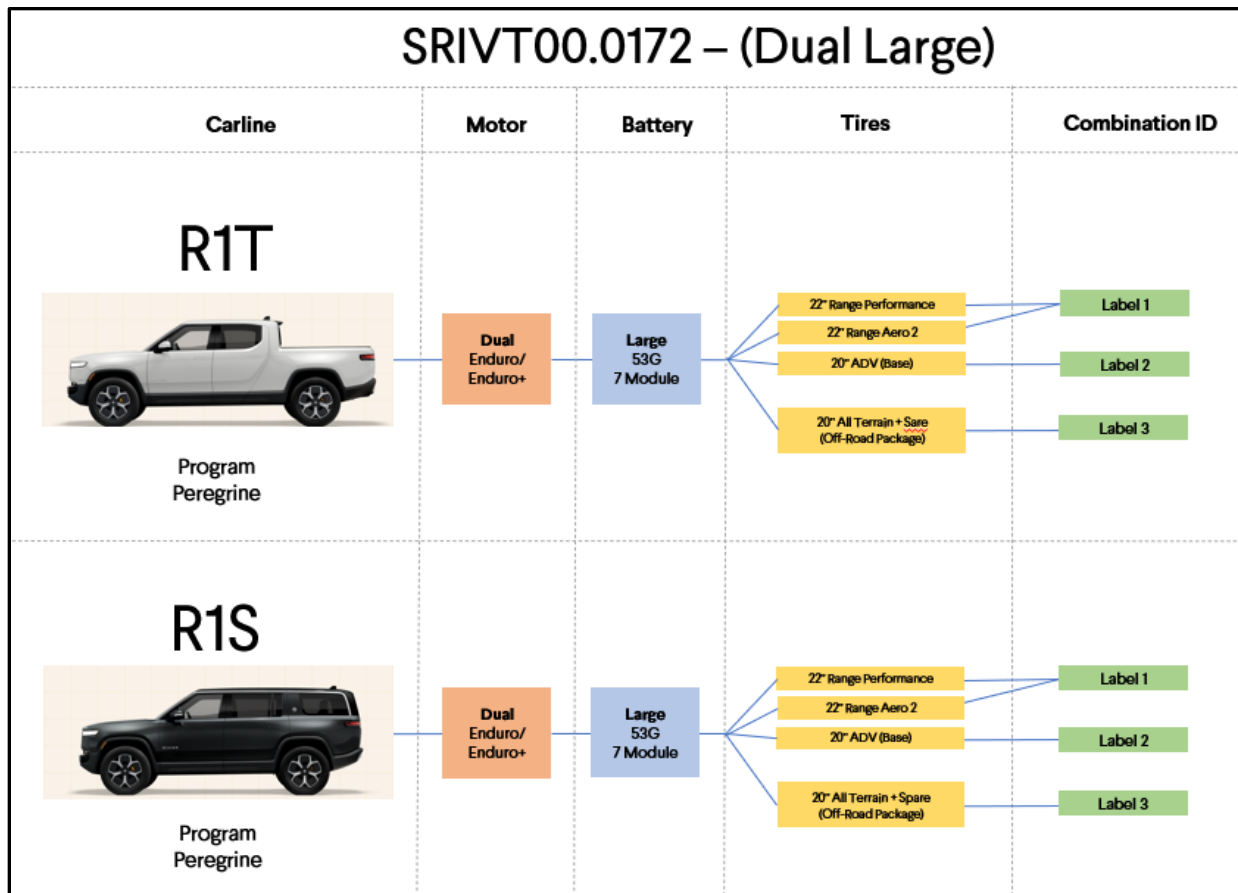
### **02.03.00 Projected annual model-year sales**

## **03.00.00 Facilities, equipment, and test procedures**

### **03.01.00 (Reserved)**

### **03.02.00 Battery pre-conditioning procedures (if necessary)**

### 03.03.00 Configurations and Sub configurations



Program	A [lbf]	B [lbf/mph]	C [lbf/mph <sup>2</sup> ]	Test Weight [lbs]	Tire Size
R1S Dual Large (22in)*	43.12	0.2416	0.02096	6,500	275/50R22
R1T Dual Large (22in)*	39.52	0.1356	0.02583	6,500	275/50R22
R1S Dual Large (20in)*	43.12	0.2416	0.02088	6,500	275/65R20
R1T Dual Large (20in)*	47.47	0.2441	0.02343	6,500	275/65R20

\*The above programs are relevant to their corresponding Performance variant. e.g R1S Dual Large (22") and R1S Performance Dual Large (22") share the same coastdown values, test weight, and tire size.

### 03.04.00 Test Procedures

#### 03.04.01 Range Test Procedures

#### 03.04.02 Description of Coastdown

### 03.05.00 Special Test Instructions

#### Vehicle Setup:

Bleyer rigid bar fixation system. Front bar fixed to the front tow hook. and rear bar fixed to the tow hitch receiver.



**Instrumentation:**

Battery voltage and current measurement were taken using a HBM Gen4TB power analyzer and Hioki CT684X-05 current clamps.

- Clamps installed to minimize number of measured current channels.
- Current clamp sizes determined by Largeimum combined circuit current.



Front/Rear Drive Units – 500A



eAC/eCH & OBC/DCDC/DCAC– 200A



Above: Hioki CT684X-05 current clamp and HBM Gen4TB power analyzer

AC Level 2 240 V/ 48 A (11.5 kW) charger was used for charging.

**03.05.00 Statement of Compliance**

Every vehicle which is covered by this application conforms to US EPA Federal Tier 3 Bin 0 regulations applicable to new Medium-Duty Vehicles and state of California ZEV regulations applicable to new Medium-Duty Vehicles for the 2025 Model Year.

**04.00.00 (Reserved)**

**05.00.00 (Reserved)**

**06.00.00 Maintenance**

**06.01.00 Test vehicle scheduled maintenance**

**06.02.00 Recommended customer maintenance schedule**

Rivian Service is our proactive and flexible approach to vehicle care, centered around uptime for our fleet operators. Through remote diagnostics, a large fleet of mobile service vans staffed with Rivian Technicians and a network of service centers deliver rapid care with minimal inconvenience to the fleet operator. Rivian maintenance intervals are determined by onboard prognostics. Vehicle and environment sensors measure or model the remaining life of maintenance items. Operators are informed when maintenance is approaching or due, scheduling necessary maintenance items only. Our fleet of mobile service vans can perform most vehicle care needs at the operator facilities or wherever the vehicle might be. In many instances, the fleet operator won't even have to be present, so can carry on with their day. Mobile service is available anywhere in the US and Canada. As we expand into other markets, our suite of Rivian vehicle care capabilities, including mobile service, will continue to be a key component of our strategy.

Time till repair (year)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Miles to repair equivalent	12.5K	25K	37.5K	50K	62.5K	75K	87.5K	90K	102.5K	115K
<b>R1T Maintenance Schedule</b>										
Multi-point inspection	X	X	X	X	X	X	X	X	X	X
Drive unit & gearbox fluid lubricant									X	

This table is an example and may not represent the final customer experience.

### 06.03.00 Lubricants and heater fuels if any

Transmission Oil:

BOT 350 M3 transmission fluid for dry electric drive units.

#### Typical Characteristics:

Test	Method	Units	
SAE Grade		-	<b>75W</b>
Density @ 15C, Relative	ASTM D1298	g/ml	<b>0.852</b>
Appearance Visual		-	<b>clear</b>
Viscosity, Kinematic 100°C	ASTM D445	mm <sup>2</sup> /s	<b>6.3</b>
Viscosity, Kinematic 40°C	ASTM D445	mm <sup>2</sup> /s	<b>32</b>
Viscosity Index		-	<b>154</b>
Viscosity, Brookfield @ -40°C	ASTM D2983	mPa.s (cP)	<b>10000</b>
Pour Point	ASTM D97	°C	<b>-51</b>
Flash Point, COC	ASTM D92	°C	<b>226</b>

Coolant: L228

#### Performance of L288 According to ASTM D3306

Table 1 – ASTM D3306 Results

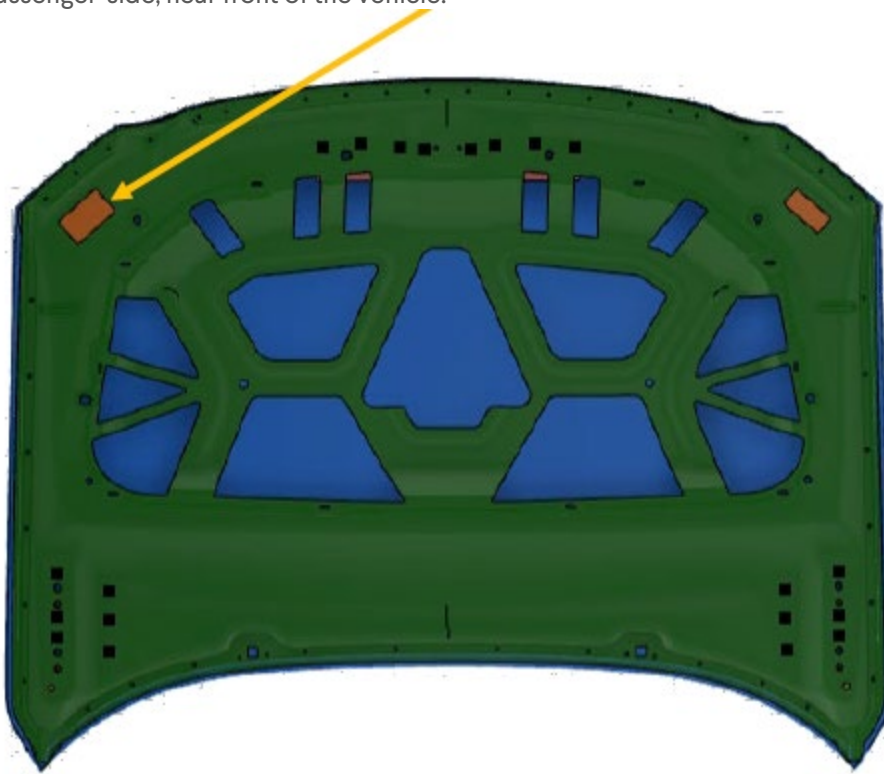
Item		ASTM D3306 Type I	CCI L288
Color		Distinctive	Yellow
Relative Density 15.5/15.5°C		1.110 ~ 1.145	1.128
Freezing Point °C	50 vol% in DI water	-36.4 max.	-37
Boiling Point °C	50 vol% in DI water	108 min.	109
Ash content mass%		5 max.	1.7
pH	50 vol% in DI water	7.5 ~ 11.0	7.6
Chloride µg/g		25 max.	<25
Water mass%		5 max.	3.8
Reserve Alkalinity mL		Report	8.0
Effect on Automotive Finish		No Effect	Pass
Corrosion in Glassware	Weight Loss <sup>(1)</sup> mg/Specimen	Copper	10 max.
		Solder	30 max.
		Brass	10 max.
		Steel	10 max.
		Cast Iron	10 max.
		Aluminum	30 max.
Simulated Service Test	Weight Loss <sup>(1)</sup> mg/Specimen	Copper	20 max.
		Solder	60 max.
		Brass	20 max.
		Steel	20 max.
		Cast Iron	20 max.
		Aluminum	60 max.
Corrosion of Cast Aluminum Alloys at Heat-Rejecting Surfaces mg/cm <sup>2</sup> /week		1.0 max.	0.1
Foaming	Volume mL	150 max.	20
	Break Time s	5 max.	3
Cavitation-Erosion Rating for pitting, cavitation, and erosion of the water pump		8 min.	9

Note (1): A plus sign designates weight gain.

07.00.00 Vehicle Emission Control Information (VECI) and Environmental

07.01.00 VECI Label locations

Under-hood, passenger-side, near front of the vehicle.



07.02.00 Sample VECI labels (MY2025 Sample Label):

 RIVIAN

RIVIAN AUTOMOTIVE, LLC  
VEHICLE EMISSION CONTROL INFORMATION

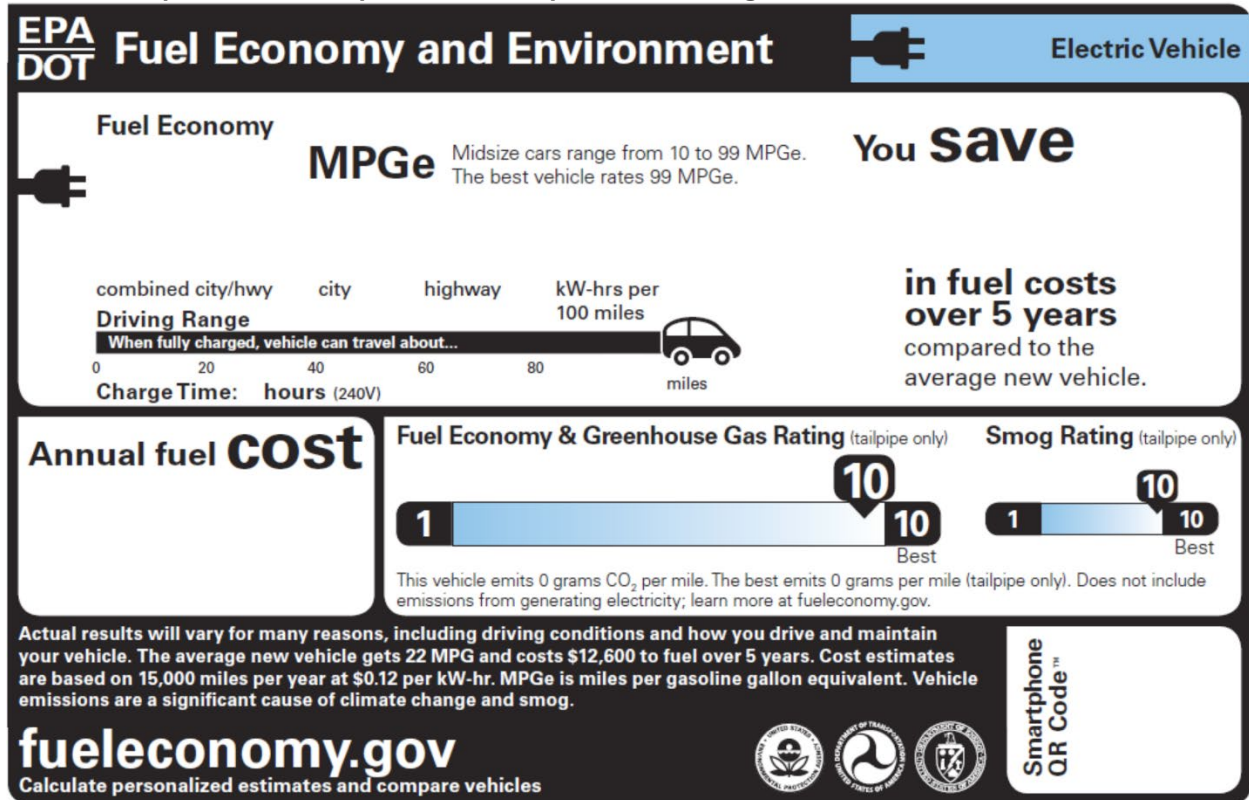


CONFORMS TO REGULATIONS: 2025 MY  
TEST GROUP: SRIVT00.0172  
U.S. EPA: T3B0 MDPV  
CALIFORNIA: ZEV MDV

MOTOR: ELECTRIC MOTOR  
FUEL: ELECTRICITY  
EVAP: N/A  
OBD: N/A

THIS VEHICLE CONFORMS TO ALL APPLICABLE STANDARDS  
PRESCRIBED BY THE ON-ROAD VEHICLE AND ENGINE EMISSION  
REGULATIONS / CE VÉHICULE EST CONFORME À TOUTES LES  
NORMES QUI LUI SONT APPLICABLES EN VERTU DU RÈGLEMENT SUR  
LES ÉMISSIONS DES VÉHICULES ROUTIERS ET DE LEURS MOTEURS.

07.03.00 Sample Fuel Economy Label (Formerly called the Smog Index label)



07.04.00 Statement of compliance

Every vehicle which is covered by this application conforms to US EPA Federal Tier 3 Bin 0 regulations applicable to new Medium Duty Passenger Vehicles and state of California ZEV regulations applicable to new Medium-Duty Vehicles for the 2025 Model Year.

08.00.00 General technical description

08.01.00 Description of Propulsion System

See 08.01.01 through 08.01.06

08.01.01 Description of Vehicle Architecture

08.01.02 Description of Drive Unit Architecture

08.01.03 Description of Motor(s)

#### **08.01.04 Description of Gearbox(s)**

#### **08.01.05 Description of Inverter(s)**

#### **08.01.06 Description of Drivetrain(s)**

#### **08.03.00 Description of Batteries**

##### **08.03.01 Battery charging capacity**

Battery pack nominal capacity for Large Pack is 381.6 Ah based on a constant current C/5 discharge rate. Large: 108.5 kWh.

##### **08.03.02 Self-discharge information**

Rivian estimates the average self-discharge rate of the battery is less than 4% per month.

##### **08.03.03 Description of thermal management system**

The thermal management system for the high voltage battery is a liquid coolant system. A pump circulates coolant through the battery and a refrigerant-cooled chiller to extract heat and lower the temperature of the battery. In cold weather, an in-line heating element is used to heat the coolant to raise the temperature of the battery.

##### **08.03.04 Definition of end-of-life**

The battery warranty for in vehicle use is 8 years or 150k miles, whichever occurs first. See section 08.03.05 for information on reuse strategy.

##### **08.03.05 Description of battery disposal plan**

Safe battery removal and discharge by Rivian service is recommended. Rivian service will determine which battery components meet standards for reuse. Rivian prioritizes the remanufacture of battery components into equivalent vehicle parts, then consumption in 2nd life applications. For components which do not meet the necessary standards, Rivian approved partners will transport, break down and recycle all materials used within the battery.

Rivian is pursuing UL 1973 certification of vehicle battery modules to enable their reuse for 2nd life grid storage applications. Rivian also plans to develop a process to evaluate the suitability of modules from field returned packs for reuse for grid storage applications in line with UL 1974 (Standard for Evaluation for Repurposing Batteries).

If a facility other than one approved by Rivian intends to dispose of the HV Battery or components, the vehicle owner and/or facility assume the responsibility to comply with any local or federal standards that may apply. A certificate from the recycler should be obtained as proof the materials were properly and legally disposed of.

#### **08.04.00 Description of Controller/Inverter**

See Section 08.01.05



### 08.05.00 Description of Transmission

See Section 08.01.04

### 08.06.00 Description of climate control system

- Rivian's climate control is a Dual Zone system with Automatic Temperature control.
- HVAC predominantly includes Defrost mode, Panel mode, and Floor mode (or any combination of these three).
- The vehicle could be remotely conditioned to a comfortable climate setpoint using a Mobile Application.
- The system consists of four electronically controlled face vent to direct airflow around passengers.
- The recirculation door is independently controlled by the passengers.
- Auto humidity control.
- Auto/manual blower fan control.

#### 08.06.01 Electric Heat Pump

Rivian has adopted a proprietary heat pump design to enhance the user experience and improve thermal efficiency.

- A number of components, including valves, sensors, heat exchangers, and refrigerant bottle, are integrated into a single bundle for cost, mass, packaging, and assembly benefits.
- Real world range is expected to improve over R1 Launch vehicles (which is equipped with conventional AC system) when cabin reheat or heating is required (roughly below 20°C).
- Further range increase is possible via waste heat recovery from the ESS and powertrain when available.

In addition, R1 heat pump has several other upgrades, including:

- Improved cabin cooling during hot ambient.
- Improved NVH due to relocated compressor.
- Improved cold ambient performance with a HV coolant heater.

#### 08.06.02 (Reserved)

#### 08.06.03 Climate control system logic

HVAC software has multiple modes which can be selected based on user preference:

- In Manual Mode, the user has complete control on blower speed, temperature, and airflow distribution to face or feet. Recirculation of air is also manually controlled by the user.
- In Auto mode, the software provides adequate heating and cooling requests to control the breathing temperature of both driver and passenger to the requested setpoint. In this mode, the airflow distribution and the blower speeds are automatically selected to maintain the desired temperature from the screen. The software estimates the breathing temperature of individual passenger based on airflow through ducts, In-Cabin sensors, external ambient temperature sensors, and solar load sensors. Recirculation of air inside the cabin is automatically selected based on humidity level inside the cabin.
- Additionally, defrost or demist mode is provided to the user for a clear view while driving. During defog mode, the software supplies conditioned air towards the windshield based on the dew point calculation. If the desired mode is Defrost, the heat pump blows hot air towards the windshield to clear frost.

#### 08.06.04 (Reserved)

### 08.07.00 Description of Regenerative Braking System

The regenerative braking system can use electric propulsion motor to convert the vehicles kinetic energy to electrical energy which is stored in the vehicles high voltage battery.

### **08.07.01 Control logic**

The regenerative control logic uses two main inputs, acceleration pedal position and vehicle speed to determine a desired regenerative braking torque. Regenerative torque is limited when the vehicle experiences low wheel traction events e.g. ice or snow.

### **08.07.02 Percentage of braking performed on road by each axle**

The percentage of braking performed on road by each axle is constantly changing and redistributing. It is based on the driver demanded torque and has been optimized for vehicle dynamics and range attributes.

### **08.07.03 Overlap of friction brakes and regenerative braking**

One pedal driving by default, and in this mode, fully releasing the pedal yields the maximum regen allowable in the level selected. As the driver manually increases primary service brake pressure and friction braking torque, the vehicle regen level will proportionally ramp down to 0 Nm. The ramp profile is affected by many factors, such as those described in 08.07.01. When auto hold is active and the vehicle approaches standstill, the braking torque will blend from motors to friction brakes.

### **08.08.00 Description of charger**

The Rivian R1T and R1S are capable of conductive charging using Electric Vehicle Supply Equipment (EVSE) off-board chargers for the following charge methods:

- AC Level 1 Charging at 120 V / 12 A
- AC Level 2 Charging at 240 V / 48 A
- DC Fast Charging at up to 210 kW

For Level 1 and Level 2 charging, the vehicle is equipped with an On-Board Charger that will convert the single-phase alternating current from the EVSE into DC current.

The vehicle is equipped with a NACS (North American Charging Standard) plug, located at the front left corner of the vehicle, and covered by a charge port door.

### **08.08.01 Proper recharging procedures**

Detailed instructions can be found in the owner's guide.

1. Put the vehicle in park (P) or unlock the vehicle.
2. Open the charge port door, located at the front left corner of the vehicle.
3. Plug the charger connector from the Electric Vehicle Supply Equipment (EVSE) into the vehicle's charge inlet so that the connector is fully seated and latched.
4. Follow any instructions provided by the EVSE to begin the charging session.
5. When the charging session is complete, it is indicated by the vehicle's center touchscreen and by an indicator light at the vehicle's charge inlet.
6. Stop the charge via the vehicle touchscreen or button at the charge port, or follow any instructions provided by the EVSE to end the charging session.
7. Remove the charger connector and close the charge port door.

Charging starts automatically. There may be a short delay if the battery requires heating or cooling.

**NOTE:** When the vehicle is plugged in but not actively charging, it draws energy from the charger instead of using the battery.

### **The charge port light color indicates the charging status:**

- White (solid), Ready.
- White (pulsing), Starting to charge.
- Green (pulsing), Charging.
- Green (solid), Charge Complete.
- Blue (solid), Charge Scheduled.
- Red (solid), Error.
- Red (pulsing), Error.

### **To stop the charging session:**

- Select Stop Charge from Energy menu.
- Unplug the charge cable and return the plug to the charger.

### **Signs of discharged 12-volt batteries include the following:**

- Doors and storage areas will not unlock.
- Vehicle does not respond to key fob.
- Lighting will not illuminate.
- Displays will not power up.

### **To jump start the 12-volt batteries:**

- Remove the trailer hitch cover to access the jump start wire harness at the rear of the vehicle.
- Remove the round access panel to the right of the trailer hitch.
- Pull out the jump start wire harness.
- Connect the positive lead (red) to the red lead on the jump start wire harness and negative lead (black) to the black lead on the jump start wire harness.

Once energized, you can unlock the vehicle and power up the vehicle displays. If the vehicle battery has drained to 0%, open the charge port and charge as soon as possible.

#### **08.08.02 Power requirements necessary to recharge vehicle**

The Rivian R1T and R1S complies with industry standard SAE NACS for AC Level 1 (120 VAC) and AC Level 2 (240 VAC) charging. Rivian R1T and R1S will be compatible with SAE J1772 through the use of an approved adapter.

AC Level 1 charging requires a conventional 110-120 Volt AC grounded outlet capable of the rating of the EVSE to be used. A portable EVSE cord set that is capable of AC Level 1 charging is included with the vehicle.

AC Level 2 charging requires a 220-240 Volt AC outlet capable of the rating of the EVSE to be used.

#### **08.09.00 Accessories which draw energy from the batteries**

Energy from the high voltage battery is used to power the electric heater and electric air conditioning. Energy is drawn by an on-board DC-DC converter that converts the high voltage to 14 Volts DC to maintain the low voltage battery system and power 12 Volt systems. Energy is also drawn by an on-board DC-AC converter to provide AC power to NEMA 15-5 outlets located in the vehicle.

#### **08.10.00 Other unique features (e.g. solar panels)**

N/A

#### **08.11.00 Description of warning system(s) for maintenance / malfunction**

The Rivian vehicles communicate maintenance and malfunction needs to the driver through easy-to-read and timely notifications. If issues do occur, the notification system uses a combination of telltales, texts, and visuals to explain the situation. Our notifications are simple to understand, communicate when the vehicle

needs service, and alerts customer if an issue arises. The customer leaves the experience feeling confident knowing the system explains the proper actions to take. Any notifications that appear in the driver's instrument cluster retire to the center display so the driver can recall still relevant notifications later.

The Rivian R1S and R1T provide warning tell-tale lights on the driver's display for minor and major defects. A message and audible tone may also be provided for some major defects. Detailed descriptions of the warnings can be found in the owner's guide.

#### **08.11.01 Cut off terminal voltages for prevention of battery damage**

Battery management control system is programmed to prevent a state of under-voltage or over-voltage per the voltage limits defined by Rivian. Contactor opens and DTCs are set when voltage of the battery is below 315 V (264.6V if cell temperature is below 5°C) or above 459 V.

**09.00.00 (Reserved)**

**10.00.00 (Reserved)**

**11.00.00 Starting and shifting schedules**

**12.00.00 (Reserved)**

**13.00.00 (Reserved)**

**14.00.00 (Reserved)**

**15.00.00 (Reserved)**

**16.00.00 (Reserved)**

**17.00.00 California requirements**

**17.01.00 Statement of compliance**

Every vehicle which is covered by this application conforms to US EPA Federal Tier 3 Bin 0 regulations applicable to new Medium Duty Passenger Vehicles and state of California ZEV regulations applicable to new Medium-Duty Vehicles for the 2025 Model Year.

**17.01.01 General statement**

Rivian confirms that the production vehicles covered by this application will be substantially the same as the vehicles tested for the purposes of this application.

**17.01.02 Drivability statement**

As of 01/01/2006, This statement is no longer included in the California Exhaust Emission Standards and Test Procedures.

**17.02.00 Supplemental Data and Certification Review Sheets**

See end of document for ZEV Supplemental Sheets

**17.03.00 (Reserved)**

**17.04.00 Credits**

**17.04.01 Description of multi-manufacturer arrangements**

N/A

**17.04.02 Credit calculation**

### **17.05.00 Vehicle Safety**

The Rivian architecture comprises a body attached to a skateboard frame structure. The primary structure encompasses engineered crush zones used to, in case of crash, absorb the crash energy. The “safety cage” comprises of body pillars, side impact bars, floor sills and roof rails (working with other structural elements) and with an advanced optimized restraint system to help properly restrain and protect occupants.

#### **17.05.01 All information for safe operation of vehicle**

See sections 03.04.00, 03.05.00, and 11.00.00.

#### **17.05.02 Information on safe handling of battery system**

The high voltage battery is to be serviced and handled only by technicians authorized by Rivian.

#### **17.05.03 Description of emergency procedures**

Emergency procedures are described in the owner’s manual. Please refer to the owner’s manual for details. Emergency procedures for first responders are described in the Emergency Response Guide provided for this vehicle.

#### **17.06.00 (Reserved)**

Test Results:

R1T Performance Dual Large (22in)

EPA EV Multicycle Calculator (SAE J1634 Oct 2012)

Manufacturer: RIVIAN  
 Carline: R1T  
 Model Year: 2025  
 Vehicle: R1T 386X 22" Range  
 Test Number  
 Comments: ALL PURPOSE

D.Good March 8, 2016

Test Date: 9/19/2024

Cycle	Energy (Wh)	Distance (mi)	ECdc_cyc	Kuwgt	Kwgt
UDDS1	1985.68	7.433	267.14	66.79	4.87
UDDS2	1642.90	7.456	220.35	55.09	72.11
UDDS3	1552.89	7.413	209.48	52.37	68.55
UDDS4	1565.77	7.438	210.51	52.63	68.89
HWY1	2756.10	10.264	268.52	134.26	
HWY2	2614.80	10.241	255.33	127.66	
SS1	85522.33	255.211	335.10		
SS2	11248.35	33.228	338.52		
<b>TOTAL</b>	<b>108888.815</b>	<b>338.684</b>			

Recharge  
 AC WattHrs  
 128525.33

K-Factors	UDDS1	UDDS2	UDDS3	UDDS4	HWY1	HWY2
Unweighted	0.250	0.250	0.250	0.250	0.500	0.500
Weighted	0.018	0.327	0.327	0.327	NA	NA

Results	Range (mi)	AC Wh/mi	MPGe	kWh/100mi
UDDSu	479.96	267.78		
UDDSw	507.82	253.09	133.1718	25.3094
HWY	415.73	309.16	109.0220	30.9158

EPA version
kWh/100mi
25.30941
30.91577

MCT Results	whdc/mi	mi/kwhdc	mi/kwhac
UDDS	214.4255	4.6636	3.9511
HFEDS	261.9236	3.8179	3.2346

Range	0.7 Adj	Adj	MPGe	MPGe
Factor	0.70000	0.70510	0.70000	0.70510
City	355.47	358.06	93.2203	93.9000
Hwy	291.01	293.13	76.3154	76.8719
<b>Combined</b>	<b>326.46</b>	<b>328.84</b>	<b>84.77</b>	<b>85.39</b>

## R1T Performance Dual Large (20in)

### EPA EV Multicycle Calculator (SAE J1634 Oct 2012)

**Manufacturer:** RIVIAN  
**Carline:** R1T  
**Model Year:** 2025  
**Vehicle:** R1T 386X 20" Base  
**Test Number:**  
**Comments:** ALL PURPOSE

D.Good March 8, 2016

**Test Date:** 9/29/2024

Cycle	Energy (Wh)	Distance (mi)	ECdc_cyc	Kuwt	Kwgt	Recharge AC WattHrs
UDDS1	1976.73	7.468	264.71	66.18	4.85	128334.750
UDDS2	1788.01	7.454	239.87	59.97	78.49	
UDDS3	1687.45	7.422	227.37	56.84	74.40	
UDDS4	1723.13	7.446	231.42	57.86	75.73	
HWY1	2895.66	10.284	281.56	140.78		
HWY2	2760.15	10.251	269.25	134.62		
SS1	84887.92	245.096	346.35			
SS2	10167.59	29.443	345.33			
<b>TOTAL</b>	<b>107886.6333</b>	<b>324.864</b>				

K-Factors	UDDS1	UDDS2	UDDS3	UDDS4	HWY1	HWY2
Unweighted	0.250	0.250	0.250	0.250	0.500	0.500
Weighted	0.018	0.327	0.327	0.327	NA	NA

Results	Range (mi)	AC Wh/mi	MPGe	kWh/100mi	EPA version kWh/100mi
UDDSu	447.96	286.49			
UDDSw	462.10	277.72	121.3629	27.7721	27.77209
HWY	391.74	327.60	102.8841	32.7602	32.76017

MCT Results	whdc/mi	mi/kwhdc	mi/kwhac
UDDS	233.4704	4.2832	3.6007
HFEDS	275.4035	3.6310	3.0525

Range	0.7 Adj	MPGe
Factor	0.70000	0.70000
City	323.47	84.9540
Hwy	274.22	72.0189
<b>Combined</b>	<b>301.31</b>	<b>78.60</b>



# US EPA Fee Form

[Help and EPA Instructions](#)

\* Required Field

## General Information

**Date:** 07/22/2024

Process Code \*

Submit New Fee Filing Form

Manufacturer Code \*

RIV

Manufacturer Name \*

Rivian Automotive LLC

Contact Name \*

Sep Zaker

Contact Email Address \*

sepzaker@rivian.com

Contact Phone \*

Calendar Year complete application submitted to EPA \*

2024

**PLEASE NOTE:** These fees apply to complete certification applications received by EPA from January 1, 2024, through December 31, 2024. The applicable fee is determined by the calendar year in which the complete certification application is received, not the model year.

Engine Family / Evaporative Family / Test Group \*

SRIVT00.0172

## Certificate Request Type (Industry Sector Code)

### Certificate Request Type \*

- On-Highway LDV, LTD, MDVPV, HDV Chassis Cert (Federal) (A, B, D, J, T, V)
- On-Highway HDE Dyno Cert (Federal) (E, H)
- On-Highway LD ICI, MDPV ICI, HDV ICI (A, B, D, J, T, V)
- On-Highway Motorcycle (C)
- On-Highway HDV Evap (F)
- On-Highway LDV, LTD, MDVPV, HDV Chassis Cert (California-Only) (A, B, D, J, T, V)
- On-Highway HDE Dyno Cert (California-Only) (E, H)
- Nonroad CI (L)
- Nonroad SI (B, S)
- Locomotive (G, K)
- All Nonroad Recreational, excluding Marine engines (X, Y)
- All Marine (Including IMO) (M, N, W)
- Component Certification for Evaporative Emissions (P)

### IMO Name (Required for dual US/IMO Marine Only)

### ICI VIN Number (Required for ICIs Only)

### Do you qualify for a Reduced Fee? \*

## Payment Information

### Amount Owed

### Payment Type \*

## Comments

EPA Form Number 3520-29

OMB Control No. 2060-0545

Approval expires 12/31/2022

The public reporting and recordkeeping burden for this collection of information is estimated to average 12 minutes per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed forms to this address.

The content of this document may contain Sensitive But Unclassified (SBU) data and/or Controlled Unclassified Information (CUI).

## Certification Summary Information Report

<b>Manufacturer</b>	Rivian Automotive LLC	<b>Manufacturer Code</b>	RIV					
<b>Test Group</b>	SRIVT00.0172	<b>Evaporative/Refueling Family</b>	--					
<b>Certificate Number</b>	--	<b>CARB Executive Order #</b>	--					
<b>Certificate Issue Date</b>	--	<b>Certificate Revision Date</b>	--					
<b>Certificate Effective Date</b>	--	<b>Conditional Certificate</b>	--					
<b>CSI Revision #</b>	--	<b>CSI Submission/Revision Date</b>	10/03/2024 08:57:50 PM					
<b>Model Year</b>	2025							
<b>Test Group Information</b>								
<b>CSI Type</b>	Update for Correction	<b>Running Change Reference Number</b>	--					
<b>GHG Exempt Status</b>	Not Exempt							
<b>Drive Sources and Fuel(s)</b>								
<b>Drive Source #1:</b>	Electric Motor							
	<table border="1"> <thead> <tr> <th>Fuel</th><th>Basic Fuel Metering System</th><th>Lean Burn Strategy Indicator</th></tr> </thead> <tbody> <tr> <td>Electricity</td><td>--</td><td>--</td></tr> </tbody> </table>	Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator	Electricity	--	--	
Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator						
Electricity	--	--						
<b>Hybrid Indicator</b>	No							
<b>Multiple Fuel Storage</b>	--	<b>Rechargeable Energy Storage System Indicator</b>	Yes					
<b>Multiple Fuel Combustion</b>	--	<b>Off-board Charge Capable Indicator</b>	Yes					
<b>Fuel Cell Indicator</b>	No	<b>EPA Vehicle Class</b>	MDPV					
<b>Federal Clean Fuel Vehicle</b>	Yes	<b>Federal Clean Fuel Vehicle Standard</b>	ZEV					
<b>Federal Clean Fuel Vehicle ILEV</b>	No	<b>California Partial Zero Emissions Vehicle Indicator</b>	--					
<b>Durability Group Name</b>	SRIVR0000172	<b>Durability Group Equivalency Factor</b>	1					
<b>Reduced Fee Test Group</b>	No	<b>Certification Region Code(s)</b>	FA, CA					
<b>Complies with HD GHG 2b/3 regulations?</b>	No							
<b>Introduction into Commerce Date</b>	--	<b>CAP2000 Conditional Certificate?</b>	N/A					
<b>Independent Commercial Importer?</b>	--	<b>Alternative Fuel Converter Certificate?</b>	--					
<b>SFTP Federal Composite Compliance Identifier</b>	Not Applicable	<b>SFTP Tier 2 Composite CO Option</b>	No					
<b>SFTP LEV-III Composite Compliance Indicator</b>	No							
<b>OBD Compliance Type</b>	CARB	<b>OBD Demonstration Vehicle Test Group</b>	SRIVT00.0172					
<b>Test Group OBD Compliance Level</b>	Full - no deficiencies	<b>Number of Test Group OBD Deficiencies</b>	0					
<b>OBD Deficiencies Comments</b>	OBD COMPLIANCE IS NOT APPLICABLE TO ZEV. PARAMETERS ARE PLACEHOLDERS TO ALLOW DATASET SUBMISSION.							
<b>Mfr Test Group Comments</b>	DURABILITY IS NOT APPLICABLE TO ZEV. PARAMETERS ARE PLACEHOLDERS TO ALLOW DATASET SUBMISSION.							
<b>Mfr Exhaust / Evap Standards Comments</b>	--							

## Certification Summary Information Report

Test Group		SRIVT00.0172		Evaporative/Refueling Family		--	
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Rivian Automotive LLC	1 - Rivian	705 - R1T Dual Large (22in)	Federal	4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	507 - R1S All-Terrain Dual Large (20in)	California + CAA Section 177 states	4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	706 - R1T Performance Dual Large (22in)	Federal	4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	508 - R1S All-Terrain Performance Dual Large (20in)	California + CAA Section 177 states	4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	505 - R1S Dual Large (22in)	Federal	4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	506 - R1S Performance Dual Large (22in)	California + CAA Section 177 states	4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	705 - R1T Dual Large (22in)	California + CAA Section 177 states	4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	706 - R1T Performance Dual Large (22in)	California + CAA Section 177 states	4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	506 - R1S Performance Dual Large (22in)	Federal	4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	708 - R1T All-Terrain Performance Dual Large (20in)	Federal	4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	707 - R1T All-Terrain Dual Large (20in)	California + CAA Section 177 states	4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	704 - R1T Performance Dual Large (20in)	Federal	4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	504 - R1S Performance Dual Large (20in)	California + CAA Section 177 states	4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	703 - R1T Dual Large (20in)	Federal	4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	707 - R1T All-Terrain Dual Large (20in)	Federal	4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	508 - R1S All-Terrain Performance Dual Large (20in)	Federal	4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	708 - R1T All-Terrain Performance Dual Large (20in)	California + CAA Section 177 states	4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	503 - R1S Dual Large (20in)	California + CAA Section 177 states	4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	507 - R1S All-Terrain Dual Large (20in)	Federal	4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	505 - R1S Dual Large (22in)	California + CAA Section 177 states	4-Wheel Drive	Automatic	1	No

### Certification Summary Information Report

Test Group	SRIVT00.0172			Evaporative/Refueling Family			--
Rivian Automotive LLC	1 - Rivian	703 - R1T Dual Large (20in)	California + CAA Section 177 states	4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	503 - R1S Dual Large (20in)	Federal	4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	704 - R1T Performance Dual Large (20in)	California + CAA Section 177 states	4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	504 - R1S Performance Dual Large (20in)	Federal	4-Wheel Drive	Automatic	1	No

**Engine Description**

Hybrid Type	--	Hybrid Description	--
Engine Type	--	Mfr Engine Description	--
Engine Block Arrangement	--	Mfr Engine Block Arrangement Description	--
Camless Valvetrain Indicator	--	Oil Viscosity/Classification	
Number of Cylinders/Rotors	--	Mechanically Variable Compression Ratio Indicator	--

**After Treatment Device(s) (ATD)**

Mfr After Treatment Device (ATD) Comments	--
Direct Ozone Reduction (DOR) Device	--
Mfr Emission Control Device Comments	--

**Official Test Numbers**

Test Group Fuel	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Electricity	--	--	--	--	--	--	--	--	--	--

**SFTP LEV-III Official Test Numbers**

Test Group Fuel	FTP	US06	SC03
Electricity	--	--	--

## Certification Summary Information Report

<b>Test Group</b>	SRIVT00.0172	<b>Evaporative/Refueling Family</b>	--
<b>Hybrid Electric Vehicle And Fuel Cell Information</b>			
<b>Rechargeable Energy Storage System</b>	Battery(s)	<b>Rechargeable Energy Storage System, if Other</b>	--
<b>Battery Type</b>	Lithium Ion	<b>Number of Battery Packs</b>	1
<b>Total Voltage of Battery Packs</b>	406	<b>Battery Energy Capacity</b>	286
<b>Battery Specific Energy</b>	273	<b>Battery Charger Type</b>	Both
<b>Number of Capacitors</b>	--	<b>Capacitor Rating (In Farads)</b>	--
<b>Mfr Capacitor Comments</b>	--		
<b>Hydraulic System Description</b>	--		
<b>Regenerative Braking Type</b>	Electrical Regen Brake		
<b>Regenerative Braking Source</b>	Both	<b>Driver Controlled Regenerative Braking</b>	Yes
<b>Mfr Regenerative Braking Description</b>	--		
<b>Drive Motor(s)/Generator(s)</b>	2		
<b>Motor/Generator Type 1</b>	AC Permanent Magnet	<b>Rated Motor/Generator Power</b>	233
<b>Motor/Generator Type 2</b>	AC Permanent Magnet	<b>Rated Motor/Generator Power</b>	233
<b>Mfr Fuel Cell Description</b>	--		
<b>Fuel Cell On-Board H2 Storage Capacity (kg)</b>	--	<b>Usable H2 Fill Capacity (kg)</b>	--
<b>Mfr Hybrid Electric/ Electric Vehicle Comments</b>	All-Purpose Drive Mode (DEFAULT)		

## Certification Summary Information Report

<b>Test Group</b>	SRIVT00.0172	<b>Evaporative/Refueling Family</b>	--						
<b>Emission Data Vehicle Information</b>									
<b>Vehicle ID / Configuration</b>	R1T386XR22 / 0	<b>Manufacturer Vehicle Configuration Number</b>	0						
<b>Original Test Group Name</b>	SRIVT00.0172	<b>Original Evaporative/Refueling Family</b>	--						
<b>Original Test Vehicle Model Year</b>	2025								
<b>Vehicle Model</b>									
<b>Represented Test Vehicle Make</b>	Rivian	<b>Represented Test Vehicle Model</b>	R1T Performance Dual Large (22in)						
<b>Leak Family Details</b>									
<b>Leak Family Identifier</b>	--	<b>Leak Family Name</b>	--						
<b>Drive Sources and Fuel System Details</b>									
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Electric Motor</td> <td>Electricity</td> </tr> </tbody> </table>			Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity
Drive Source and Fuel#	Drive Source	Fuel							
1	Electric Motor	Electricity							
<b>Hybrid Indicator</b>	No								
<b>Multiple Fuel Storage</b>	--	<b>Multiple Fuel Combustion</b>	--						
<b>Fuel Cell Indicator</b>	No	<b>Rechargeable Energy Storage System Indicator</b>	Yes						
<b>Rechargeable Energy Storage System</b>	Battery(s)	<b>Rechargeable Energy Storage System, if 'Other'</b>	--						
<b>Off-board charge Capable Indicator</b>	Yes								
<b>Odometer Correction -- Initial</b>	1	<b>Odometer Correction Factor</b>	1						
<b>Odometer Correction Sign</b>	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles								
<b>Odometer Correction Units</b>	Miles								
<b>Engine Code</b>	264X2RW	<b>Rated Horsepower</b>	533						
<b>Displacement (liters)</b>	99.999								
<b>Air Aspiration Method</b>	Naturally Aspirated	<b>Air Aspiration Method, if 'Other'</b>	Electric						
<b>Number of Air Aspiration Devices</b>	--	<b>Air Aspiration Device Configuration</b>	--						
<b>Charge Air Cooler Type</b>	--	<b>Drive Mode While Testing</b>	4-Wheel Drive						
<b>Shift Indicator Light Usage</b>	Not equipped	<b>Aged Emission Components</b>	4,000 (mi)						
<b>Curb Weight (lbs)</b>	6314	<b>Equivalent Test Weight (pounds)</b>	6500						
<b>GVWR (lbs)</b>	--	<b>N/V Ratio</b>	999						
<b>Axle Ratio</b>	9.99								
<b>Transmission Type</b>	Automatic	<b># of Transmission Gears</b>	1						
<b>Transmission Lockup</b>	No	<b>Creeper Gear</b>	No						



### Certification Summary Information Report

<b>Test Group</b>	SRIVT00.0172	<b>Evaporative/Refueling Family</b>	--
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**Dynamometer Coefficients:**

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
<b>City/Highway/Evap</b>	39.52	0.1356	0.02583	-6.94	0.1421	0.02367	14.8
<b>Cold CO</b>	43.47	0.1492	0.02841	-7.85	-0.2801	0.02875	N/A
<b>US06</b>	39.52	0.1356	0.02583	-6.94	0.1421	0.02367	N/A

**Emission Control Device Comments**      Battery Electric Vehicle  
**Manufacturer Test Vehicle Comments**      FDU Axle Ratio: 11.0:1 FDU N/V: 140.4

### Certification Summary Information Report

<b>Test Group</b>	SRIVT00.0172	<b>Evaporative/Refueling Family</b>	--
<b>Test #</b>	<b>SRIV10087918</b>	<b>Test Procedure</b>	<b>2 - CVS 75 and later (w/o can. load)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity
<b>Test Date</b>	09/21/2024	<b>Fuel</b>	Electricity
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	MDPV (Federal Tier 2, GVWR 8501-10000)	<b>DF Type</b>	EPA Assigned
<b>Verify Test Lab ID</b>	FEV Michigan		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	3838	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 86 (+/- 2 mph, +/- 1 sec)	<b>Road Speed Fan Usage</b>	Yes

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
<b>METHANE (CH4 - Methane)</b>	0	--
<b>CO (Carbon Monoxide)</b>	0	--
<b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b>	1.56	--
<b>DT-EER (Drive Trace Energy Economy Rating)</b>	0.73	--
<b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>	2.62	--
<b>MFR FE (Manufacturer Fuel Economy)</b>	22.51	149.7334518
<b>NOX (Nitrogen Oxide)</b>	0	--
<b>N2O (Nitrous Oxide)</b>	0	--
<b>HC-NM (Non-methane Hydrocarbon)</b>	0	--
<b>NMOG (Non-methane organic gases)</b>	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
<b>Carbon-Related Exhaust Emissions</b>	0	0
<b>Optional Carbon-Related Exhaust Emissions</b>	0	0

Test Result Name	Unrounded Test Result	Verify Calculated CO2
<b>Carbon dioxide</b>	0	--

**Manufacturer Test Comments**

R1T - Drive Mode: All-Purpose (Default Mode) Dual Motor, Large Battery Pack, and 22" Tires. Cycle 1: 252.47 Wh/mi, Cycle 2: 202.86 Wh/mi, Cycle 3: 246.30 Wh/mi, Cycle 4: 202.09 Wh/mi.

### Certification Summary Information Report

Test Group		SRIVT00.0172				Evaporative/Refueling Family				--		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 0	CO	0.0	--	--	--	0	--	0	0	Pass
CA	150,000 miles	California ZEV	CO	0.0	--	--	--	0	--	0	0	Pass

## Certification Summary Information Report

<b>Test Group</b>	SRIVT00.0172	<b>Evaporative/Refueling Family</b>	--
<b>Test #</b>	<b>SRIV10087919</b>	<b>Test Procedure</b>	<b>3 - HWFE</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity
<b>Test Date</b>	09/21/2024	<b>Fuel</b>	N/A
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	EPA Assigned
<b>Verify Test Lab ID</b>	FEV Michigan		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	3838	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 86 (+/- 2 mph, +/- 1 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	3.81	--
DT-EER (Drive Trace Energy Economy Rating)	0.44	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	4.95	--
MFR FE (Manufacturer Fuel Economy)	26.14	128.9403213
NOX (Nitrogen Oxide)	0	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	0	0
Optional Carbon-Related Exhaust Emissions	0	0

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	0	--

## Manufacturer Test Comments

R1T - Drive Mode: All-Purpose (Default Mode) Dual Motor, Large Battery Pack, and 22" Tires. Cycle 1: 261.40 Wh/mi

### Certification Summary Information Report

<b>Test Group</b>	SRIVT00.0172	<b>Evaporative/Refueling Family</b>	--
<b>Test #</b>	<b>SRIV10087920</b>	<b>Test Procedure</b>	<b>90 - US06</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity
<b>Test Date</b>	09/21/2024	<b>Fuel</b>	N/A
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	EPA Assigned
<b>Verify Test Lab ID</b>	FEV Michigan		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	3864	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 86 (+/- 2 mph, +/- 1 sec)	<b>Road Speed Fan Usage</b>	Yes

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
<b>METHANE (CH4 - Methane)</b>	0	--
<b>CO (Carbon Monoxide)</b>	0	--
<b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b>	-1.97	--
<b>DT-EER (Drive Trace Energy Economy Rating)</b>	-1.33	--
<b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>	-3.85	--
<b>MFR FE (Manufacturer Fuel Economy)</b>	35.35	95.3465347
<b>NOX (Nitrogen Oxide)</b>	0	--
<b>N2O (Nitrous Oxide)</b>	0	--
<b>HC-NM (Non-methane Hydrocarbon)</b>	0	--
<b>NMOG (Non-methane organic gases)</b>	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
<b>Carbon-Related Exhaust Emissions</b>	0	--
<b>Optional Carbon-Related Exhaust Emissions</b>	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
<b>Carbon dioxide</b>	0	--

**Manufacturer Test Comments**

R1T - Drive Mode: All-Purpose (Default Mode) Dual Motor, Large Battery Pack, and 22" Tires. Cycle 1 (City1): 325.61 Wh/mi, Cycle 2 (HWY): 356.36 Wh/mi, Cycle 3 (City2): 390.19 Wh/mi

### Certification Summary Information Report

<b>Test Group</b>	SRIVT00.0172	<b>Evaporative/Refueling Family</b>	--
<b>Test #</b>	<b>SRIV10087921</b>	<b>Test Procedure</b>	<b>95 - SC03</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity
<b>Test Date</b>	09/21/2024	<b>Fuel</b>	N/A
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	EPA Assigned
<b>Verify Test Lab ID</b>	FEV Michigan		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	3880	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 86 (+/- 2 mph, +/- 1 sec)	<b>Road Speed Fan Usage</b>	Yes

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
<b>METHANE (CH4 - Methane)</b>	0	--
<b>CO (Carbon Monoxide)</b>	0	--
<b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b>	1.36	--
<b>DT-EER (Drive Trace Energy Economy Rating)</b>	1.37	--
<b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>	1.4	--
<b>MFR FE (Manufacturer Fuel Economy)</b>	33.36	101.0341727
<b>NOX (Nitrogen Oxide)</b>	0	--
<b>N2O (Nitrous Oxide)</b>	0	--
<b>HC-NM (Non-methane Hydrocarbon)</b>	0	--
<b>NMOG (Non-methane organic gases)</b>	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
<b>Carbon-Related Exhaust Emissions</b>	0	--
<b>Optional Carbon-Related Exhaust Emissions</b>	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
<b>Carbon dioxide</b>	0	--

**Manufacturer Test Comments**

R1T - Drive Mode: All-Purpose (Default Mode) Dual Motor, Large Battery Pack, and 22" Tires. Cycle 1: 333.62 Wh/mi

**Certification Summary Information Report**

<b>Test Group</b>	SRIVT00.0172	<b>Evaporative/Refueling Family</b>	--
<b>Test #</b>	<b>SRIV10087895</b>	<b>Test Procedure</b>	<b>77 - Multi-Cycle Test (MCT)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity
<b>Test Date</b>	09/19/2024	<b>Fuel</b>	N/A
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	EPA Assigned
<b>Verify Test Lab ID</b>	FEV Michigan		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	3386	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 86 (+/- 2 mph, +/- 1 sec)	<b>Road Speed Fan Usage</b>	Yes

**PHEV/EV Charge Depleting Test Information**

<b>Recharge Event Voltage</b>	240	<b>Recharge Event Energy (kiloWatt-hours)</b>	128.53
<b>Charge Depleting Range (Calculated miles)</b>	507.82	<b>Charge Depleting Range (Actual miles)</b>	507.82
<b>Charge Depleting Range Highway (Calculated miles)</b>	415.73	<b>Derived 5-Cycle Coefficient Model Year</b>	--
<b>All Electric Range Unadjusted (miles)</b>	--	<b>Equivalent All Electric Range (miles)</b>	507.82
<b>Number of Charge Depleting Bags/Phases Conducted</b>	8	<b>Transition Bag/Phase Number</b>	--

**Charge Depleting Bag/Phase #1**

<b>Test Result/Emission Name</b>	<b>Unrounded Test Result</b>
Actual Distance Driven (miles)	7.433
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-0.35
Drive Trace Energy Economy Rating	-0.29
Drive Trace Inertia Work Ratio Rating	-0.81
Integrated DC KW-HRS	1.986
Manufacturer Fuel Economy	26.71

**Charge Depleting Bag/Phase #2**

## Certification Summary Information Report

Test Group	SRIVT00.0172	Evaporative/Refueling Family	--																
<table border="1"> <thead> <tr> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>Actual Distance Driven (miles)</td> <td>10.264</td> </tr> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>Drive Trace Absolute Speed Change Rating</td> <td>-1.88</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>-0.78</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>-2.18</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>2.756</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>26.85</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.264	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-1.88	Drive Trace Energy Economy Rating	-0.78	Drive Trace Inertia Work Ratio Rating	-2.18	Integrated DC KW-HRS	2.756	Manufacturer Fuel Economy	26.85
Test Result/Emission Name	Unrounded Test Result																		
Actual Distance Driven (miles)	10.264																		
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Drive Trace Energy Economy Rating	-0.78																		
Drive Trace Inertia Work Ratio Rating	-2.18																		
Integrated DC KW-HRS	2.756																		
Manufacturer Fuel Economy	26.85																		
<b>Charge Depleting Bag/Phase #3</b>																			
<table border="1"> <thead> <tr> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>Actual Distance Driven (miles)</td> <td>7.456</td> </tr> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>Drive Trace Absolute Speed Change Rating</td> <td>0.76</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>0.03</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>1.54</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>1.643</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>22.03</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.456	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	0.76	Drive Trace Energy Economy Rating	0.03	Drive Trace Inertia Work Ratio Rating	1.54	Integrated DC KW-HRS	1.643	Manufacturer Fuel Economy	22.03
Test Result/Emission Name	Unrounded Test Result																		
Actual Distance Driven (miles)	7.456																		
Carbon-Related Exhaust Emissions	0																		
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Drive Trace Energy Economy Rating	0.03																		
Drive Trace Inertia Work Ratio Rating	1.54																		
Integrated DC KW-HRS	1.643																		
Manufacturer Fuel Economy	22.03																		
<b>Charge Depleting Bag/Phase #4</b>																			
<table border="1"> <thead> <tr> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>Actual Distance Driven (miles)</td> <td>255.211</td> </tr> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>Drive Trace Absolute Speed Change Rating</td> <td>33.71</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>-1.41</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>67.58</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>85.522</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>26.85</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	255.211	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	33.71	Drive Trace Energy Economy Rating	-1.41	Drive Trace Inertia Work Ratio Rating	67.58	Integrated DC KW-HRS	85.522	Manufacturer Fuel Economy	26.85
Test Result/Emission Name	Unrounded Test Result																		
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Carbon-Related Exhaust Emissions	0																		
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Drive Trace Inertia Work Ratio Rating	67.58																		
Integrated DC KW-HRS	85.522																		
Manufacturer Fuel Economy	26.85																		
<b>Charge Depleting Bag/Phase #5</b>																			
<table border="1"> <thead> <tr> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>Actual Distance Driven (miles)</td> <td>7.413</td> </tr> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>Drive Trace Absolute Speed Change Rating</td> <td>0.31</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>0.69</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0.64</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>1.553</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>20.95</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.413	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	0.31	Drive Trace Energy Economy Rating	0.69	Drive Trace Inertia Work Ratio Rating	0.64	Integrated DC KW-HRS	1.553	Manufacturer Fuel Economy	20.95
Test Result/Emission Name	Unrounded Test Result																		
Actual Distance Driven (miles)	7.413																		
Carbon-Related Exhaust Emissions	0																		
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Drive Trace Inertia Work Ratio Rating	0.64																		
Integrated DC KW-HRS	1.553																		
Manufacturer Fuel Economy	20.95																		
<b>Charge Depleting Bag/Phase #6</b>																			



## Certification Summary Information Report

<b>Test Group</b>	SRIVT00.0172	Evaporative/Refueling Family	--
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Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.241
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.89
Drive Trace Energy Economy Rating	0.25
Drive Trace Inertia Work Ratio Rating	1.32
Integrated DC KW-HRS	2.615
Manufacturer Fuel Economy	25.53

**Charge Depleting Bag/Phase #7**

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.438
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.59
Drive Trace Energy Economy Rating	0.58
Drive Trace Inertia Work Ratio Rating	1.51
Integrated DC KW-HRS	1.566
Manufacturer Fuel Economy	21.05

**Charge Depleting Bag/Phase #8**

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	33.228
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	99.9
Drive Trace Energy Economy Rating	-0.34
Drive Trace Inertia Work Ratio Rating	75.74
Integrated DC KW-HRS	11.248
Manufacturer Fuel Economy	33.85

**Manufacturer Test Comments**

R1T - Drive Mode: All-Purpose (Default Mode) Performance Dual Motor, Large Battery Pack, and 22" Tires. UDDS1: 267.15 Wh/mi, UDDS2: 220.33 Wh/mi, UDDS3: 209.48 Wh/mi, UDDS4: 210.50 Wh/mi. UDDS1 Energy: 1985.68 Wh HWY1: 268.53 Wh/mi, HWY2: 255.33 Wh/mi MCT Energy: 108888.81 Wh

**Certification Summary Information Report**

<b>Test Group</b>	SRIVT00.0172	<b>Evaporative/Refueling Family</b>	--
<b>Test #</b>	<b>SRIV10087922</b>	<b>Test Procedure</b>	<b>86 - Charge Depleting 20 Degree F FTP</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity
<b>Test Date</b>	09/26/2024	<b>Fuel</b>	N/A
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	EPA Assigned
<b>Verify Test Lab ID</b>	FEV Michigan		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4029	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 86 (+/- 2 mph, +/- 1 sec)	<b>Road Speed Fan Usage</b>	Yes

**PHEV/EV Charge Depleting Test Information**

<b>Recharge Event Voltage</b>	240	<b>Recharge Event Energy (kiloWatt-hours)</b>	128.53
<b>Charge Depleting Range (Calculated miles)</b>	14.9	<b>Charge Depleting Range (Actual miles)</b>	14.9
<b>Charge Depleting Range Highway (Calculated miles)</b>	--	<b>Derived 5-Cycle Coefficient Model Year</b>	--
<b>All Electric Range Unadjusted (miles)</b>	--	<b>Equivalent All Electric Range (miles)</b>	14.9
<b>Number of Charge Depleting Bags/Phases Conducted</b>	4	<b>Transition Bag/Phase Number</b>	--

**Charge Depleting Bag/Phase #1**

<b>Test Result/Emission Name</b>	<b>Unrounded Test Result</b>
Actual Distance Driven (miles)	3.588
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-0.89
Drive Trace Energy Economy Rating	-0.73
Drive Trace Inertia Work Ratio Rating	-1.72
Integrated DC KW-HRS	1.519
Manufacturer Fuel Economy	42.35

**Charge Depleting Bag/Phase #2**

## Certification Summary Information Report

Test Group	SRIVT00.0172	Evaporative/Refueling Family	--																
<table border="1"> <thead> <tr> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>Actual Distance Driven (miles)</td> <td>3.865</td> </tr> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>Drive Trace Absolute Speed Change Rating</td> <td>-0.03</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>-1.22</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>-0.19</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>1.363</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>35.26</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	3.865	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-0.03	Drive Trace Energy Economy Rating	-1.22	Drive Trace Inertia Work Ratio Rating	-0.19	Integrated DC KW-HRS	1.363	Manufacturer Fuel Economy	35.26
Test Result/Emission Name	Unrounded Test Result																		
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Manufacturer Fuel Economy	35.26																		
<b>Charge Depleting Bag/Phase #3</b>																			
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Test Result/Emission Name	Unrounded Test Result																		
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Carbon-Related Exhaust Emissions	0																		
Drive Trace Absolute Speed Change Rating	0.41																		
Drive Trace Energy Economy Rating	-0.26																		
Drive Trace Inertia Work Ratio Rating	0																		
Integrated DC KW-HRS	1.293																		
Manufacturer Fuel Economy	36.03																		
<b>Charge Depleting Bag/Phase #4</b>																			
<table border="1"> <thead> <tr> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>Actual Distance Driven (miles)</td> <td>3.874</td> </tr> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>Drive Trace Absolute Speed Change Rating</td> <td>0.47</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>-0.75</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0.96</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>1.286</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>33.2</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	3.874	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	0.47	Drive Trace Energy Economy Rating	-0.75	Drive Trace Inertia Work Ratio Rating	0.96	Integrated DC KW-HRS	1.286	Manufacturer Fuel Economy	33.2
Test Result/Emission Name	Unrounded Test Result																		
Actual Distance Driven (miles)	3.874																		
Carbon-Related Exhaust Emissions	0																		
Drive Trace Absolute Speed Change Rating	0.47																		
Drive Trace Energy Economy Rating	-0.75																		
Drive Trace Inertia Work Ratio Rating	0.96																		
Integrated DC KW-HRS	1.286																		
Manufacturer Fuel Economy	33.2																		
<b>Manufacturer Test Comments</b>	R1T - Drive Mode: All-Purpose (Default Mode) Dual Motor, Large Battery Pack, and 22" Tires. Cycle 1: 423.47 Wh/mi, Cycle 2: 352.62 Wh/mi, Cycle 3: 360.28 Wh/mi, Cycle 4: 331.97 Wh/mi,																		
<b>Fuel Properties</b>																			

### Certification Summary Information Report

<b>Test Group</b>	SRIVT00.0172	<b>Evaporative/Refueling Family</b>	--
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#### Consolidated List of Standards

**Exhaust Standards**

<b>Cert Region</b>	Federal	<b>Cert/In-Use Code</b>	Cert
<b>Vehicle Class</b>	MDPV (Federal Tier 2, GVWR 8501-10000)	<b>Standard Level</b>	Federal Tier 3 Bin 0
<b>Fuel</b>	Electricity	<b>Test Procedure</b>	Charge Depleting UDDS

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0	0
150,000 miles	CO-COMP	--	--	--	--	--	--	0	0
150,000 miles	CREE	--	--	--	--	--	--	0	0
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0

<b>Cert Region</b>	California + CAA Section 177 states	<b>Cert/In-Use Code</b>	Cert
<b>Vehicle Class</b>	MDPV (Federal Tier 2, GVWR 8501-10000)	<b>Standard Level</b>	California ZEV
<b>Fuel</b>	Electricity	<b>Test Procedure</b>	Charge Depleting UDDS

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0	0
150,000 miles	CO-COMP	--	--	--	--	--	--	0	0
150,000 miles	CREE	--	--	--	--	--	--	0	0
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0

<b>Cert Region</b>	Federal	<b>Cert/In-Use Code</b>	Cert
<b>Vehicle Class</b>	MDPV (Federal Tier 2, GVWR 8501-10000)	<b>Standard Level</b>	Federal Tier 3 Bin 0
<b>Fuel</b>	Electricity	<b>Test Procedure</b>	Charge Depleting Highway

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0	0
150,000 miles	CO-COMP	--	--	--	--	--	--	0	0
150,000 miles	CREE	--	--	--	--	--	--	0	0
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0

### Certification Summary Information Report

<b>Test Group</b>		SRIVT00.0172			<b>Evaporative/Refueling Family</b>			--		
<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		MDPV (Federal Tier 2, GVWR 8501-10000)			<b>Standard Level</b>			California ZEV		
<b>Fuel</b>		Electricity			<b>Test Procedure</b>			Charge Depleting Highway		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	CO	--	--	--	--	--	--	0	0	
150,000 miles	CO-COMP	--	--	--	--	--	--	0	0	
150,000 miles	CREE	--	--	--	--	--	--	0	0	
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0	
<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		MDPV (Federal Tier 2, GVWR 8501-10000)			<b>Standard Level</b>			Federal Tier 3 Bin 0		
<b>Fuel</b>		Electricity			<b>Test Procedure</b>			CVS 75 and later (w/o can. load)		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	CO	--	--	--	--	--	--	0	0	
<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		MDPV (Federal Tier 2, GVWR 8501-10000)			<b>Standard Level</b>			California ZEV		
<b>Fuel</b>		Electricity			<b>Test Procedure</b>			CVS 75 and later (w/o can. load)		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	CO	--	--	--	--	--	--	0	0	

## Certification Summary Information Report

Test Group	SRIVT00.0172	Evaporative/Refueling Family	--
<b>Glossary</b>			
<b>Useful Life</b>			
4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		
<b>Emission Name</b>			
HC-TOTAL	Total Hydrocarbon	N2O	Nitrous Oxide
CO	Carbon Monoxide	SPITBACK	Spitback Hydrocarbon in grams
CO2	Carbon dioxide	AMP-HRS	Integrated Amp-hours
CREE	Carbon-Related Exhaust Emissions	START-SOC	System Start State of Charge Watt-hours
OPT-CREE	Optional Carbon-Related Exhaust Emissions	END-SOC	System End State of Charge Watt-hours
NOX	Nitrogen Oxide	ACT-DISTANCE	Actual Distance Driven (miles)
PM	Particulate Matter	AS-VOLT	Average System Voltage
PM-COMP	SFTP Composite Particulate Matter	CO2 BAG 1	Bag 1 Carbon Dioxide
HC-NM	Non-methane Hydrocarbon	CO2 BAG 2	Bag 2 Carbon Dioxide
OMHCE	Organic material Hydrocarbon Equivalent	CO2 BAG 3	Bag 3 Carbon Dioxide
OMNMHCE	Organic material non-methane HC equivalent	CO2 BAG 4	Bag 4 Carbon Dioxide
NMOG	Non-methane organic gases	NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides
HCHO	Formaldehyde	NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides
H3C2HO	Acetaldehyde	DT-IWRR	Drive Trace Inertia Work Ratio Rating
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	DT-ASCR	Drive Trace Absolute Speed Change Rating
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	DT-EER	Drive Trace Energy Economy Rating
CO-COMP	SFTP Composite Carbon Monoxide	COMB-CREE	Combined Carbon-Related Exhaust Emissions
ETHANOL	C2H5OH - Ethanol	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions
FE BAG 1	Bag 1 Fuel Economy	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only
FE BAG 2	Bag 2 Fuel Economy	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only
FE BAG 3	Bag 3 Fuel Economy	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only
FE BAG 4	Bag 4 Fuel Economy	LEAK-DIA	Effective Leak Diameter (inches)
MFR FE	Manufacturer Fuel Economy	LEAK-GAS CAP	Gas Cap Leakage (cc/min)
HC	Hydrocarbon for Running Loss and ORVR	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only
METHANE	CH4 - Methane	KW-HRS	Integrated DC KW-HRS
METHANOL	CH3OH - Methanol		
<b>Certification Region</b>			
CA	California + CAA Section 177 states	FA	Federal
<b>Exhaust Emission Standard Level</b>			
B1	Federal Tier 2 Bin 1	L3ULEV340	California LEV-III ULEV340
B2	Federal Tier 2 Bin 2	L3ULEV250	California LEV-III ULEV250
B3	Federal Tier 2 Bin 3	L3ULEV200	California LEV-III ULEV200
B4	Federal Tier 2 Bin 4	L3SULEV170	California LEV-III SULEV170

## Certification Summary Information Report

Test Group	SRIVT00.0172	Evaporative/Refueling Family	--
B5	Federal Tier 2 Bin 5	L3SULEV150	California LEV-III SULEV150
B6	Federal Tier 2 Bin 6	L3LEV630	California LEV-III LEV630
B7	Federal Tier 2 Bin 7	L3ULEV570	California LEV-III ULEV570
B8	Federal Tier 2 Bin 8	L3ULEV400	California LEV-III ULEV400
B9	Federal Tier 2 Bin 9	L3ULEV270	California LEV-III ULEV270
B10	Federal Tier 2 Bin 10	L3SULEV230	California LEV-III SULEV230
B11	Federal Tier 2 Bin 11	L3SULEV200	California LEV-III SULEV200
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)	T3B160	Federal Tier 3 Bin 160
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)	T3B125	Federal Tier 3 Bin 125
L2	California LEV-II LEV	T3B110	Federal Tier 3 Transitional Bin 110
L2OP	California LEV-II LEV Optional	T3B85	Federal Tier 3 Transitional Bin 85
U2	California LEV-II ULEV	T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover
S2	California LEV-II SULEV	T3B70	Federal Tier 3 Bin 70
ZEV	California ZEV	T3B50	Federal Tier 3 Bin 50
OT	Other	T3B30	Federal Tier 3 Bin 30
T1	Federal Tier 1	T3B20	Federal Tier 3 Bin 20
PZEV	California PZEV	T3B0	Federal Tier 3 Bin 0
L2LEV160	California LEV-II LEV160	HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395
L2ULEV125	California LEV-II ULEV125	HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340
L2SULEV30	California LEV-II SULEV30	HDV2B250	Federal Tier 3 HD Class 2b Bin 250
L2LEV395	California LEV-II LEV395	HDV2B200	Federal Tier 3 HD Class 2b Bin 200
L2ULEV340	California LEV-II ULEV340	HDV2B170	Federal Tier 3 HD Class 2b Bin 170
L2LEV630	California LEV-II LEV630	HDV2B150	Federal Tier 3 HD Class 2b Bin 150
L2ULEV570	California LEV-II ULEV570	HDV2B0	Federal Tier 3 HD Class 2b Bin 0
L3LEV160	California LEV-III LEV160	HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630
L3ULEV125	California LEV-III ULEV125	HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570
L3ULEV70	California LEV-III ULEV70	HDV3B400	Federal Tier 3 HD Class 3 Bin 400
L3ULEV50	California LEV-III ULEV50	HDV3B270	Federal Tier 3 HD Class 3 Bin 270
L3SULEV30	California LEV-III SULEV30	HDV3B230	Federal Tier 3 HD Class 3 Bin 230
L3SULEV20	California LEV-III SULEV20	HDV3B200	Federal Tier 3 HD Class 3 Bin 200
L3LEV395	California LEV-III LEV395	HDV3B0	Federal Tier 3 HD Class 3 Bin 0
<b>Transmission Type Code</b>			
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual
A	Automatic	OT	Other
AM	Automated Manual	SA	Semi-Automatic
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)
<b>Drive System Code</b>			
4	4-Wheel Drive	P	Part-time 4-Wheel Drive
F	2-Wheel Drive, Front	A	All Wheel Drive

**Certification Summary Information Report**

<b>Test Group</b>	SRIVT00.0172	<b>Evaporative/Refueling Family</b>	--
R	2-Wheel Drive, Rear		
<b>Additional Terms and Acronyms</b>			
AFC	Alternative Fuel Converter	ICI	Independent Commercial Importer
CSI	Certificate Summary Information	ORVR	Onboard Refueling Vapor Recovery
DF	Deterioration Factor	SIL	Shift Indicator Light
Evap	Evaporation, Evaporative	Trans	Transmission



Suggested ZEV Application Format for Certification

E.O.#. \_\_\_\_\_ Page 1 of 2

2025 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
ZEV-PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Rivian Automotive, LLC Test Group: SRIVT00.0172

Vehicle Class(es): PC\_\_\_\_, LDT1 (0-3750 lbs. LVW)\_\_\_\_, LDT2 ( $\geq$  3,751 lbs. LVW)\_\_\_\_,  
MDV6 (8,500-10,000 lbs. GVW)X, MDV7 (10,001-14,000 lbs. GVW)\_\_\_\_

ZEV Type: NEV\_\_\_\_, ZEVX

No. of ZEV Credits per vehicle: 4.0

Fuel Type: Electro-chemical BatteryX, Fuel Cell\_\_\_\_, Capacitor\_\_\_\_, Other (specify)\_\_\_\_

Battery Type(s): Lead Acid\_\_\_\_ Nickel Cadmium\_\_\_\_ SBLA\_\_\_\_ Sodium Sulfur\_\_\_\_

Sodium Nickel Chloride\_\_\_\_ Nickel Metal Hydride\_\_\_\_ Lithium Metal Disulfide\_\_\_\_

Zinc Air\_\_\_\_ Zinc Bromine\_\_\_\_ Lithium Polymer\_\_\_\_ Lithium IonX,

Other (specify):\_\_\_\_\_

Total Battery Weight (kg.): 634 Total Battery Volume (liters): 521

No. of batteries or modules per vehicle: 1 Total Battery Voltage: 407

Charger(s): On-boardX Off-boardX ConductiveX Inductive\_\_\_\_.

Drive Motors(s): AC Induction\_\_\_\_ DC Brush\_\_\_\_. DC Brushless\_\_\_\_

Switched Reluctance\_\_\_\_ Other (specify ): AC Permanent Magnet.

No. of Drive Motors2 Rated motor power 264 kW @ 6000 rpm Max rpm: 16000.

Drive: FWD\_\_\_\_ RWD\_\_\_\_ 4WD-FT\_\_\_\_ 4WD-PTX

Regenerative Braking: No\_\_\_\_ YesX FW\_\_\_\_ RW\_\_\_\_ AWX.

Driver Controlled Regen Braking: YesX No\_\_\_\_ Coast Regen Braking: YesX No\_\_\_\_.

Air Conditioning: YesX No\_\_\_\_, Fuel Fired Heater:<sup>1</sup> Yes\_\_\_\_ NoX.

Vehicle Make & Models (If coded, see attachments)	Trans type M5, A4 (If applicable)	GVWR	Curb Weight	ETW or Test Weight	DPA / RLHP or Dyno Coeff. a=, b=, c=
Make: Rivian Model: R1T Dual Large (22in) R1T Performance Dual Large (22in)	Automatic	8532 lbs.	6314 lbs. (R1T)	6500 lbs.	a: 39.52 lbf b: 0.1356 lbf/mph c: 0.02583 lbf/mph <sup>2</sup>

Date Issued: 09/30/2024

Revisions:

<sup>1</sup> Fuel fired heaters are not allowed in pure ZEVs for model year 2009 and subsequently.

Suggested ZEV Application Format for Certification

E.O.#. \_\_\_\_\_ Page 2 of 2

2025 MODEL-YEAR AIR RESOURCES BOARD CERTIFICATION REVIEW SHEET  
ZEV-PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Rivian Automotive, LLC Test Group: SRIVT00.0172

Range Test Results							
Vehicle ID	Trans	(check one)	(check one)	City Range	System AC (Wh/mi)	System DC (Wh/mi)	Vehicle DC (Wh/mi)
		____ TW <u>X</u> ETW	____ DPA ____ RLHP Or dyno coeff.				
R1T386XR22	Auto	6500 lbs.	a: -6.94 lbf b: -0.1421 lbf/mph c: 0.02367 lbf/mph <sup>2</sup>	507.82	253.09	214.43	214.43
				Hwy. Range	System AC (Wh/mi)	System DC (Wh/mi)	Vehicle DC (Wh/mi)
				415.73	309.16	261.92	261.92

Battery Test Results: PASS Specific Energy: Wh/kg 167

Remarks: Rated motor power 264 kW @ 6,000 rpm corresponds to Performance Dual Large.

Date Issued: 09/30/2024 Revisions:

----- **ARB USE ONLY** -----

Application:

Processed By: \_\_\_\_\_ Date: \_\_\_\_\_ Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_