

TOOL USE INSTRUCTION

RIVIAN

TOOL NUMBER

TSN01842-100

TITLE

Contaminated Refrigerant Recovery

REV - DATE

REV A 09/15/2026

CONTENTS

[SAFETY](#)

[OVERVIEW](#)

[INITIAL SETUP](#)

[TOOL USE INSTRUCTION](#)

[MAINTENANCE & STORAGE](#)

[SPARE PARTS](#)

[TROUBLESHOOTING](#)

[SYMBOL GLOSSARY](#)

TOOL FUNCTION

To allow recovery of contaminated refrigerant in the system of the vehicle.
Recovery machine and Scale are required to be used in the procedure.





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

1	• eye protection • closed toe shoes • gloves	
2	Risk of • damage to vehicle or property • voiding warranty	
3	Risk of major injury such as • fire • chemical or poison • death	

NOTE:

To legally handle air conditioning refrigerant (freon) in the United States, you must be EPA- Section 609 certified for motor vehicles. **DO NOT** use this equipment unless you have the proper certification.

CAUTION: This equipment should be used in locations with mechanical ventilation that provides at least four air changes per hour or the equipment should be located at least 18 inches (457 mm) above the floor,” or the equivalent.



SPECIFICATIONS

Weight: 24 lbs (Mastercool) 10 lbs (TIF scale)
Load Rating: 110 Lb (Max Capacity for the TIF scale)
Voltage Rating: 110/115V

LABOR CODES

- 264650024 Refrigerant Evacuate and Recharge
- 264699012 Refrigerant System General Diagnostic

OTHER TOOLS REQUIRED

- Rivian Approved AC machine
- TSN01489-101 TIF Slimline scale

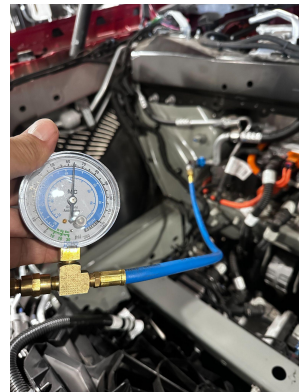


COMPONENT GUIDE

ITEM	QTY	RIVIAN TOOL ID	DESCRIPTION
1	1	TSN01842-100-A	CONTAMINATED REFRIGERANT RECOVERY MACHINE
2	1	TSN01489-101-A	TIF INSTRUMENTS SLIMLINE REFRIGERANT ELECTRONIC CHARGING/RECOVER SCALE



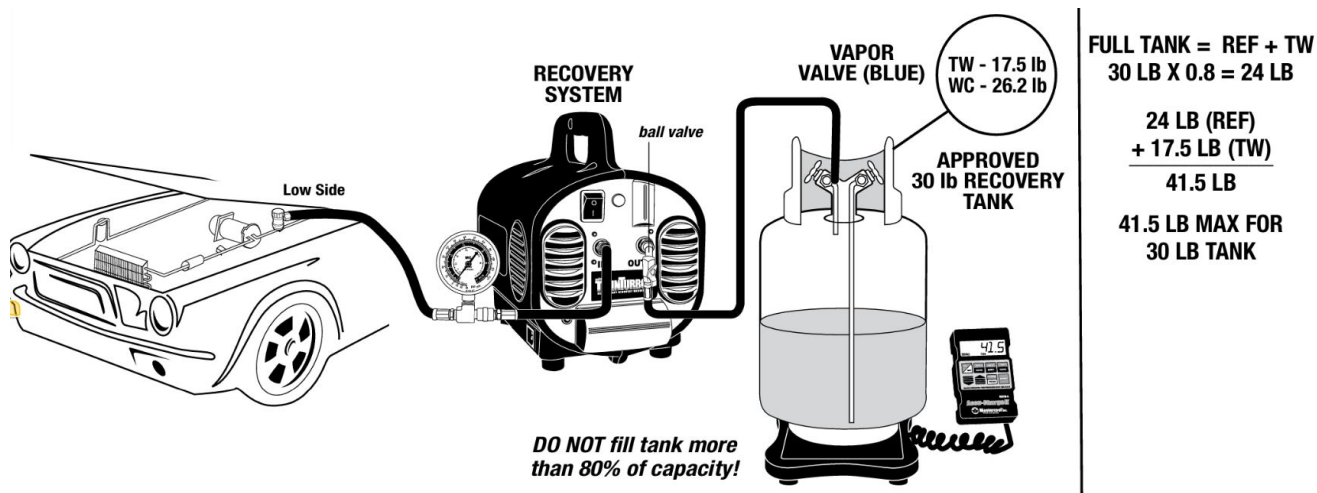
1	Using the TIF scale, measure the empty tank and record the weight. Empty tank weight (TW) should be approximately 17.5 lb.	 Image is for reference only
2	DO NOT fill the tank more than 80% capacity!! TW (Tank Weight) REF (Refrigerant)	Full Tank= REF (refrigerant) + TW $30 \text{ lb tank} \times 0.8 (80\%) = 24 \text{ lb}$ 24 LB (REF) +17.5 (TW) = 41.5 lb 41 LB MAX FOR A 30LB TANK
3	Connect the hose without the gauge to the recovery machine outlet. Connect the ball valve side on the recovery machine outlet side. Keep the valve closed.	 
4	Connect the other side of the hose without the gauge to the BLUE side of the recovery tank valve.	

5	CAUTION: The recovery machine outlet hose MUST be hooked up to the recovery tank before connecting to the vehicle. If the vehicle is connected first, refrigerant flow through the recovery machine and out of the recovery machine outlet.	
6	Connect the hose with the gauge to the recovery machine inlet Attach the knurled end to the inlet side.	
7	Select the correct coupler (low side) and attach it to the end of the hose with the gauge 67534 Low Sde R1234yf 12mm-F x 14mm Quick Coupler	
8	Once all the other hose connections are made, connect the hose with the gauge to the vehicle (low side port)	

9 **OPEN** the Blue valve on the tank



Visual guide to connection and application:



1	Using RiDE be sure to run necessary procedures (opening valves etc.) prior to turning on the machine. 264650024- Refrigerant Evacuate and Recharge	
2	Open the valve on the outlet port of the recovery machine side (hose that goes from recover machine outlet to the recovery tank)	
3	Once all necessary procedures are run using RiDE, TURN ON the recovery machine	
4	When the gauge reads 10 to 20 in. Hg and stops going down for a few minutes, the recovery is complete.	



5	Remove the coupler from the vehicle	
6	Turn off the recovery machine	
7	CLOSE the blue valve on the recovery tank	
8	CLOSE the valve on the recovery line (outlet port on the recovery machine)	

9	Remove the coupler from the recovery tank	CAUTION: There is refrigerant under pressure in the recovery machine and in the outlet hose. It is best to leave the hoses attached to the recovery machine, unless it is necessary to purge the recovery machine. If it is necessary to remove the hoses from the machine, use extreme caution.
10	Mark the weight of the recovery tank after use for the next person to reference before using to ensure that they are not using more than 80% capacity. Identify the tank as "CONTAMINATED REFRIGERANT"	NOTE: Source a new Recovery tank if it is 80% full and schedule with EHS to have the contaminated refrigerant collected.



BASIC MAINTENANCE GUIDE

TASK	FREQUENCY
Inspect hoses, gauges and couplers for damage	Before each use
Check the tank weight (reference chart and instructions) to ensure that it is safe to use and that there is room to collect contaminated freon	Before each use
Store recovery machine with hoses and the designated contaminated freon recovery tank (labeled) in specific assigned location(s).	After Each Use



FOR OTHER ITEMS NOT SHOWN, CONTACT RIVIAN SERVICE TOOL ENGINEERING

ITEM	DESCRIPTION	SUPPLIER + PART NUMBER	PHOTO
1	Mini Twin Turbo Refrigerant Recovery Machine	Mastercool 69400	
2	CON 30 lb DOT Approved Tank	Mastercool 62010-CON	
3	CON 72" Yellow Hose	Mastercool 83722-CON	
4	CON 72" Blue Hose with R134a/R1234yf Gauge	Mastercool 83721-CON	
5	Low Side R1234yf 12 mm-F x 14 mm Quick Coupler	Mastercool 67534	
6	Low Side R134a 14 mm-F x 13 mm Quick Coupler	Mastercool 66334	
7	Slimline refrigerant scale	TIF TIF9010A	



PROBLEM	SOLUTION
contaminated refrigerant won't go into the tank	Check the ball valve to ensure it is OPEN and check the Blue valve on the recovery to ensure that it is OPEN.
Tank weighs more than 41.0 lb before using it to recover contaminated freon	Tank is at the max allowed capacity (80%) and must be collected and replaced. DO NOT USE!!
Recovery machine will not switch ON	Check the power outlet/source to ensure it is plugged in. If it is still not working, replace the recovery machine.
Vacuum will not reach 10-20 in. Hg	Possible leak in the system (vehicle side or hoses) Recovery machine is worn out. Replace the unit.



**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 the service manual and RiDE for all proper instruction and procedures associated with recovering freon

NOTE

Required EPA 609 certification prior to using this tool

REV	DATE	CHANGE DESCRIPTION
1	9/17/2026	Initial release

