

Part 573 Safety Recall Report

24V-090

Manufacturer Name : EARTHROAMER, LLC**Submission Date :** FEB 08, 2024**NHTSA Recall No. :** 24V-090**Manufacturer Recall No. :** 23E-076**Manufacturer Information :**

Manufacturer Name : EARTHROAMER, LLC

Address : 2745 INDUSTRIAL LANE #101
BROOMFIELD CO 80020

Company phone : 720-304-3174

Population :

Number of potentially involved : 7

Estimated percentage with defect : 80 %

Vehicle Information :

Vehicle 1 : 2022-2023 EarthRoamer LTi

Vehicle Type : LOW VOLUME VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : LTi vehicles with a fuel transfer pump manufactured by Transfer Flow, Inc have a firmware defect. The firmware will need to be updated to version 4.78 or later and a relay to disengage the pump is needed.

Production Dates : OCT 10, 2022 - JAN 17, 2023

VIN Range 1 : Begin : NR End : NR

 Not sequential**Description of Defect :**

Description of the Defect : It has been determined that a vehicle parked under certain rare conditions might experience a voltage backflow that could cause the auxiliary fuel tank control module to pump fuel into the primary fuel tank. In certain circumstances, this could overflow the primary tank and cause diesel fuel to overflow. The defect manifests itself when back-fed voltage elevates the voltage at the OBDII connector from 12 volts to 13.2 volts or above. If the voltage exceeds 13.2 volts while the vehicle is not running with the ignition key off, the TRAX 4 module may come out of sleep mode. If the module comes out of sleep mode, some vehicles' OBDII systems may communicate an incorrect fuel level or not respond to a fuel level request. If the reported or last data point is within the allowable pump transfer range, the TRAX 4 module will activate the pump and transfer fuel, potentially leading to overfilling of the main tank.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Transfer Flow TRAX 4 firmware versions prior to version 4.78 can activate the fuel pump and transfer fuel unexpectedly; this issue can occur during a remote start session or when an auxiliary power system back-feeds voltage to

the truck's battery systems, potentially causing fuel spillage and the risk of a fire.

Description of the Cause : NR

Identification of Any Warning that can Occur : NR

Involved Components :

Component Name 1 : TRAX 4

Component Description : Control Module

Component Part Number : 070-CM-34418

Supplier Identification :

Component Manufacturer

Name : Transfer Flow Inc

Address : 1444 Fortress Street
Chico 95973

Country : NR

Chronology :

One vehicle had reported a fuel overfill while pumping at diesel stop. Further discussion with Transfer Flow, Inc led to understanding of current situation with need to modify firmware and install relay.

Description of Remedy :

Description of Remedy Program : Customer will be asked to bring vehicle to a supported location capable of installing a relay and upgrading firmware for Transfer Flow Trax 4 system. If customer would rather speak direct with an EarthRoamer service representative we ask that the customer come in to upgrade firmware and have the relay installed that will disengage the transfer pump while vehicle ignition is off.

How Remedy Component Differs from Recalled Component : The remedied system will be noticeable in that it is version 4.78 or greater and has the relay to disengage power to the transfer pump.

Identify How/When Recall Condition was Corrected in Production : The correction was initiated by an Engineering Change Notice on January 17, 2023 to install a relay that will disengage power to the transfer pump.

Recall Schedule :

Description of Recall Schedule : February 14, 2024 through May 14, 2024
Planned Dealer Notification Date : FEB 14, 2024 - MAY 14, 2024
Planned Owner Notification Date : FEB 14, 2024 - MAY 14, 2024

* NR - Not Reported