

FECON Field Campaign: FC-071 135VRT A/C REPAIR

Document Information

- **Campaign ID:** FC-071
- **Subject:** 135VRT A/C Repair - HVAC System Failures
- **Models Affected:** 135VRT
- **Serial Numbers Affected:** 0135VRT221001 through 0135VRT23C044
- **Issue Date:** 12/20/23
- **Termination Date:** 12/20/24
- **Location:** FECON, LLC - 3460 Grant Drive, Lebanon, OH 45036

Issue Description

FECON has identified a potential for failure in the HVAC system of affected machines. These failures specifically involve the components outlined in this notice including AC lines, heater valve, cabin air filter, foam strips, and condenser circuit breaker fuse.

Warning

Continued operation without repair may further deteriorate HVAC functionality and reduce operator comfort.

Required Parts

Order (1) A/C Service Kit (VT2097950) which includes:

- AC Lines
- Heater Valve
- Cabin Air Filter
- Foam Strip (qty 4)
- Condenser Circuit Breaker Fuse

Time Estimate

Repair completion should not exceed 8-man hours.

Warranty Procedure

- A separate warranty claim must be submitted for each serviced unit

- All warranty claims should include detailed information about repairs performed
- For questions or assistance, contact the FECON service department

Repair Procedure

Tools Required

- Combination/Socket Wrenches
- Torx Driver and Bits
- Hose/Line Clamp Pliers
- A/C Recovery/Charge System

Safety Warning

Use caution when performing service work on Compact Track or Skid Steer Loaders. Consult the Operation-Maintenance and Service manuals specific to the machine for complete safety information prior to beginning work.

Refrigerant Recovery

1. Shut down the machine according to section 5.13 of the operation and maintenance manual
2. Recover refrigerant from the AC system at the ports on the rear of the cab, adjacent to the window

AC Hose/Line Replacement

1. Shut down the machine according to chapter 5 of the operation manual and allow to cool
2. Remove the key to prevent accidental starting
3. Open hood and side panels at the rear of the machine
4. Release rubber restraints, then raise and support the charge air cooler
5. Remove two bolts securing the rear door to the cooler assembly (upper right and left)
6. Lower rear door and secure with mechanical support
7. Disconnect the two quick release fittings at the hydraulic oil fill point and cooler
8. Remove the air cleaner cover and hose connecting it to the cooler assembly
9. Remove cooler braces (both sides) securing the cooler assembly, then tilt cooler assembly rearward
10. Remove bolts securing rear belly pan to chassis and remove for access
11. Looking upward into engine compartment, remove and discard two tube clamps securing A/C tubes to left side of chassis
12. Disconnect A/C hose/lines from rear of compressor and at tube junctions in lower rear opening, then remove and discard
13. Connect new hose/line 2097-928 (8) to lower connection point on A/C compressor (snug, don't tighten)

14. Connect new hose/line 2097-927 (10) to upper connection point on A/C compressor (snug, don't tighten)
15. Connect free end of #10 hose to existing rearward positioned tube in lower rear chassis
16. Connect free end of #8 hose to existing forward positioned tube in lower rear chassis
17. Replace O-ring on existing size 8 tube (2097-647) with supplied O-ring before connecting 2097-928 hose
18. Position hoses to avoid contact with chassis or other components and tighten at all connection points
19. Torque specifications:
 - 38 ± 2 ft. lbs. for -8 hose to tube connection
 - 59 ± 3 ft. lbs. for -10 hose to tube connection
 - 20 ± 3 ft. lbs. for 3/4" A/C compressor connection
 - 30 ± 3 ft. lbs. for 7/8" A/C compressor connection
20. Evacuate A/C lines, then charge with 1.98 lb. of refrigerant

Cabin Air Filter Foam Installation

1. Remove cabin air filter cover on rear of cab by turning knobs counterclockwise, then remove filter
2. Apply foam strips to perimeter of opening to seal gaps between filter and housing
3. Ensure foam touches at corners and trim to length as needed for proper seal
4. Reinstall filter and cover

Fuse Replacement

1. Locate larger of two fuse panel enclosures on lower right side of engine compartment (in front of exhaust)
2. Remove cover, then replace existing condenser 20 AMP fuse with new 20 AMP fuse from kit
3. Reinstall fuse panel cover

Heater Valve Update

1. Shut down machine according to operation manual and allow to cool
2. Remove fasteners securing recirc cover behind seat in cab
3. Remove recirc cover
4. Remove fasteners securing rear panel, then pull panel forward for access
5. Place absorbent matting beneath heater valve to catch spills
6. Clamp heater hoses on both sides of valve to stop coolant flow
7. Disconnect harness from valve
8. Remove fasteners securing heater valve to mounting bracket, disconnect coolant hoses and remove valve
9. Remove fasteners securing heater valve mounting bracket to heater unit, then remove bracket

10. Reinstall bracket mounting fasteners into heater unit to seal openings
11. Mount spacer from new valve onto existing studs
12. Install new valve over spacer onto studs and secure with included nuts and star washers
13. Connect harness, then connect and clamp heater hoses to new valve
14. Carefully pry current heater control panel from dash
15. Disconnect and remove existing heater control panel and jumper
16. Install and connect new heater control panel directly to white cab harness connector (do not reinstall jumper)
17. Connect black cab harness connector to panel, then push panel back into place

Final Steps

Reverse disassembly steps to restore the machine to operating condition and complete the repair.

Technical Support

For additional assistance, contact FECON service department at:

- Phone: 800.528.3110
- Email: service@fecon.com
- Website: www.fecon.com

SEO Keywords

FECON 135VRT, HVAC repair, air conditioning repair, compact track loader repair, VT2097950 service kit, heater valve replacement, AC line replacement, cabin air filter installation, condenser fuse replacement, FC-071 field campaign