

[Freightliner Heavy-Duty Trucks Factory Service Repair Manual](#)

Installation

1. Check all of the front and rear engine support components for damage and extreme wear. Replace the components as needed.
2. Install the isolator tubes and the top isolators in the engine front crossmember. Coat the rubber mounts with soapy water, and install them in the rear engine mounts.

PRECAUTION:

Don't lubricate the components with oil, grease, or silicone lubricants, because they will soften the rubber and damage the mounts.

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Complete workshop & service manual with electrical wiring diagrams for Freightliner Heavy-Duty Trucks (FLA COE, FLB COE, FLD Conventional, FLL COE). It's the same service manual used by dealers that guaranteed to be fully functional and intact without any missing page.

This Freightliner Heavy-Duty Trucks (FLA COE, FLB COE, FLD Conventional, FLL COE) service & repair manual (including maintenance, overhaul, disassembling & assembling, adjustment, tune-up, operation, inspecting, diagnostic & troubleshooting...) is divided into different sections. Each section covers a specific component or system with detailed illustrations. A table of contents is placed at the beginning of each section. Pages are easily found by category, and each page is expandable for great detail. The printer-ready PDF documents work like a charm on all kinds of devices.

"STI-206, S39 (8_10P).pdf"

Freightliner Heavy-Duty Trucks Service Manual

Models: FLA COE, FLB COE, FLD Conventional, FLL COE

STI-206, S39 (8/10P); 4,439 pages

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“STI-329-1 (10_09P).pdf”

Freightliner Heavy-Duty Trucks Maintenance Manual

Models: FLA COE, FLB COE, FLC 112 Conventional, FLD Conventional, FLL COE

STI-329-1 (10/09P); 178 pages

EXCERPT:

Cummins NTC-400 (PACE) Engine, 120 Conventional 01.06

Removal and Installation

Removal

1. Apply the parking brakes, then chock the tires.
2. Drain the primary and secondary air tanks.
3. Remove the grille. Refer to the hood section in this manual for instructions.
4. Tilt the hood.
5. Disconnect the battery ground cable at the vehicle frame. Disconnect the positive battery cable from the batteries.

Remove the battery cables from the standoff brackets under the transmission and the engine.

See Fig. 1.

6. Block the hood from tilting beyond its full-open position by placing a support between the floor and the front of the hood. Place cardboard, carpeting, rags, or other padding on top of the support to protect the hood. The lowest edge of the

hood should rest on the supports. The supports should be as wide and long as the front of the hood. See Fig. 2.

Fig. 1, Battery Cable Stand-Off Brackets

WARNING

When there is tension on the tilt-assist spring, do not disconnect the tilt-assist cables or spring. If the spring or cables are disconnected while the spring is under tension, they could whip and cause personal injury.

7. Tilt the hood until it is balanced over the pivots to relieve tension from the tilt-assist spring. While a coworker is holding the hood in this position, disconnect the tilt-assist cables from the brackets on top of the radiator at each side.

8. Carefully lower the hood onto the support.

9. If equipped with an air conditioner, proceed as follows:

9.1 Discharge the refrigerant from the air conditioner system, using the instructions in the air conditioning section in this manual.

9.2 Disconnect the discharge hose from the refrigerant compressor. See Fig. 3. Disconnect the hoses from the condenser.

See Fig. 4. Plug all hoses, and cap all fittings.

9.3 Remove any refrigerant hoses that are routed along the top of the engine and secure them with tie straps to the frontwall.

10. Remove the radiator brace rods from the bracerod brackets at the frontwall.

11. Using an overhead hoist, remove, as a single unit, the radiator, air-to-air aftercooler, and refrigerant condenser, as equipped. For instructions, refer to the radiator assembly section in this manual.

12. Disconnect the hoses from the power steering reservoir and pump. See Fig. 5. Drain the power steering fluid, then plug the hoses, and cap the fittings.

13. Disconnect the starter motor ground cable from the ground weld-stud in the channel of the left frame rail. Remove the clamp attaching the cable to the frame rail.

Mark the starter wires, then disconnect them.

14. Disconnect the fuel supply hose from the fuel filter. See Fig. 6. Disconnect the fuel return hose from the engine. Plug the hoses and cap the fittings.

15. At the elbow fittings on the air compressor governor, disconnect the air hoses to the air tank. On the air compressor, remove the discharge line.

See Fig. 7. Plug the hoses, and cap the fittings.

Disconnect all clamps that attach the air hoses to the engine and transmission