

Adding Relief Valve for the Air Compressor on DD13

Description:

This procedure outlines the steps to install a relief valve on the air compressor for coaches equipped with DD13 engines.

This procedure applies to MY 2011-2019.



Read this entire procedure before beginning work.

Use Safe Shop Practices at All Times.

To avoid personal injury:

- a. Proper Personal Protective Equipment (PPE) must be worn. Safety glasses and protective gloves are required for working with DEF Fluid.***
- b. Turn the main battery disconnect switch to the OFF position.***
- c. Ensure that both the front and the rear wheels are chocked.***
- d. Positioning the ENGINE RUN and ENGINE START switches on the engine compartment remote control box to the OFF position.***
- e. Allow enough time for components to cool down prior to working in the engine compartment.***

1.0 Material requirement

Service kit **T08-1424** contains the following parts:

Item	P/N	QTY	E/A	DESCRIPTION
1	04-07-1395	1	EA	TEE- COMPRESSOR RELIEF VALVE
2	04-07-1396	1	EA	COMPRESSOR RELIEF VALVE
3	T07-3746	1	EA	BRACKET – STARTER CABLE, DD13
4	19-01-1568	1	EA	CAP – M8- 1.25 X 20MM, GR 8.8
5	19-03-0519	2	EA	NUT-HEX, LOCK, FLANGED,1/4-20
6	19-1-1072	2	EA	CAPSCREW-1/4-20 X 2
7	19-10-1454	1	EA	FITTING-STRT 3/8 T, 1/8M
8	19-10-3010	1	EA	FITTING-ADAPTER-1/8 NPT F X M10 O-RING
9	19-11-3078	4	EA	CABLE TIE- DOUBLE LOOP

2.0 Special tools

Loctite 56765, MCI P/N: 21-7203-2.

3.0 Relief valve installation

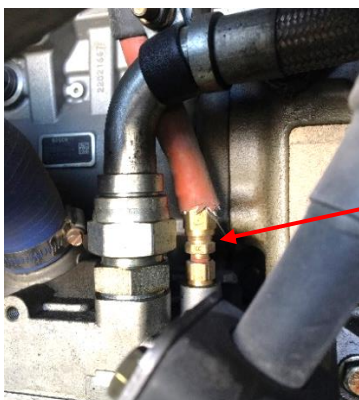
In the wheelchair compartment, remove and save the 8 screws securing the access panel. Save the access panel.



Remove and
save the screws

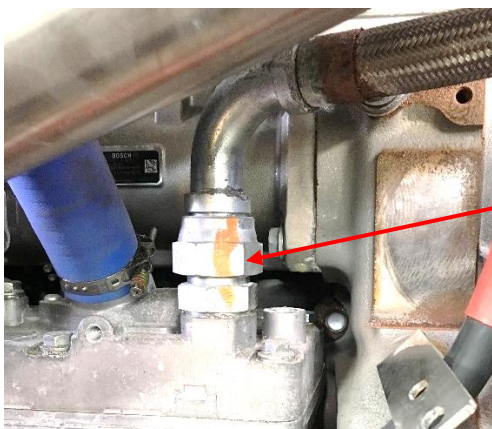
Access panel

Remove and discard the fittings next to the air compressor supply hose.



Loosen and
discard the fittings

Loosen air supply hose connected to the compressor.

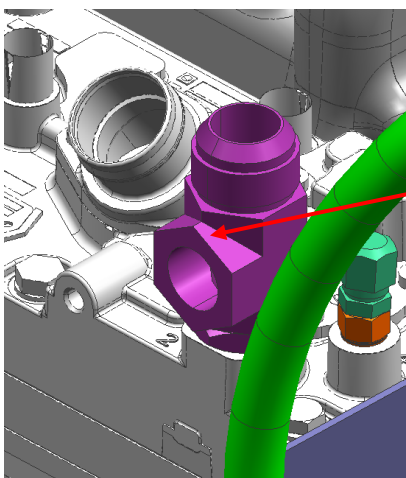


Loosen the air
supply hose

Uninstall compressor fitting.

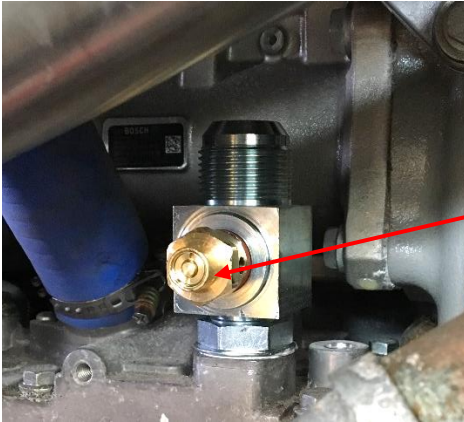


Install tee fitting, MCI P/N:04-07-1395, in place of the previous compressor fitting and torque it to 56-62 Ft-Lbs.



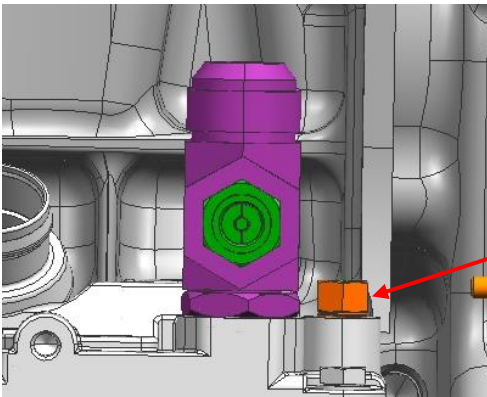
Tee fitting, MCI
P/N: 04-07-1395

Apply thread sealant to male pipe threads of the relief valve leaving the first one to two threads uncovered. Install the relief valve, MCI P/N: 04-07-1396, to the tee fitting as shown below and wrench tighten the relief valve 2-3 turns from finger tight.



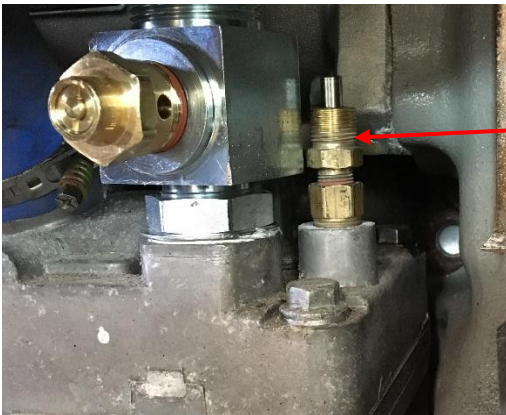
Relief valve, MCI
P/N: 04-07-1396

Install the adapter fitting, MCI P/N: 19-10-3010, to the compressor as shown below. Torque it to 10-12 Ft-Lbs.



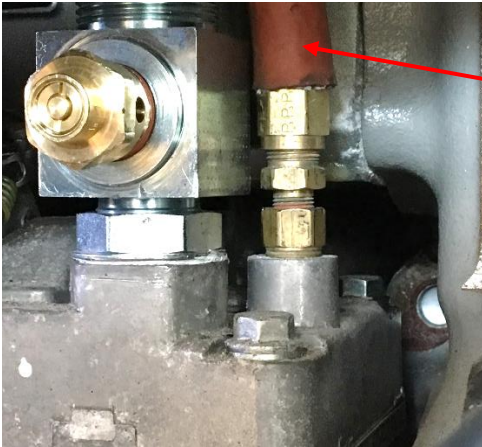
Adapter fitting, MCI
P/N: 19-10-3010

Apply thread sealant to the start fitting, MCI P/N: 19-10-1454, leaving the first one to two threads uncovered. Install it to the adapter as shown below and wrench tighten the relief valve 2-3 turns from finger tight.



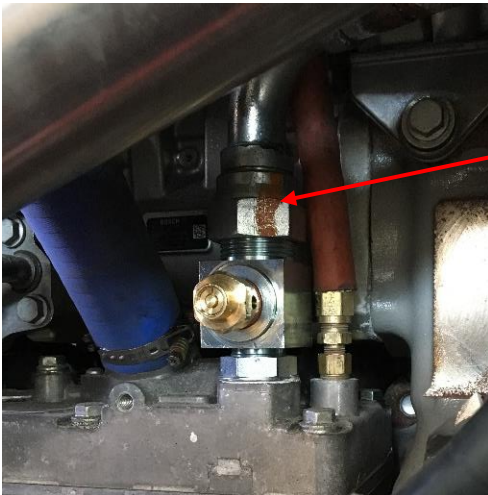
Start fitting, MCI P/N:
19-10-1454

Connect the tube back to the fitting.



Connect the tube

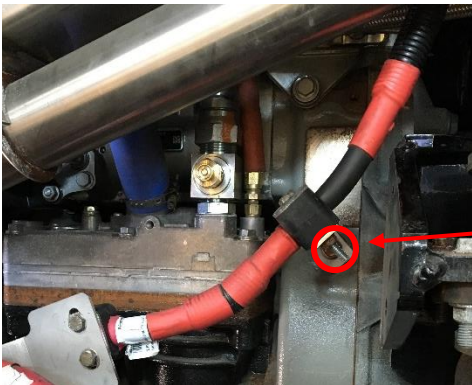
Install the air supply hose to the tee fitting. Torque it to 108-113 Ft-Lbs.



Install air supply
hose

3.0 Starter cable bracket installation

Remove and discard the screw securing the existing starter cable bracket.



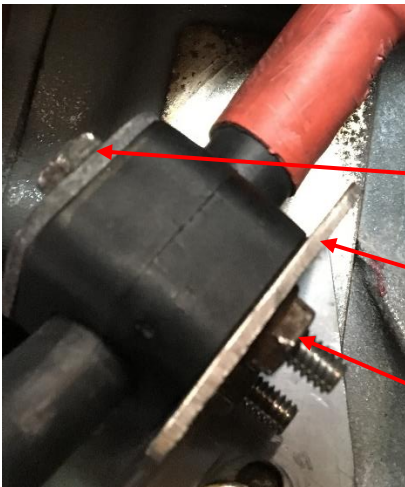
Remove and
discard the screw

Remove and discard the hardware securing the clamp. Discard the bracket and save the clamp.



Remove and
discard the screws

Install the clamp to the new starter cable racket, MCI P/N: T07-3276, using capscrews, MCI P/N: 19-1-1072, and nuts, MCI P/N: 19-03-0519. Torque the screws to 9-10 Ft-Lbs.

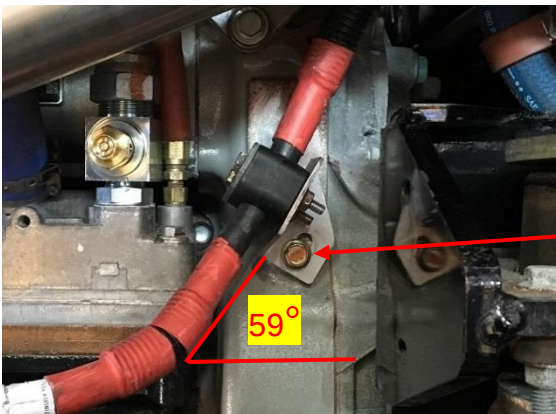


Screws, MCI P/N:
19-1-1072

Starter cable bracket,
MCI P/N: T07-3746

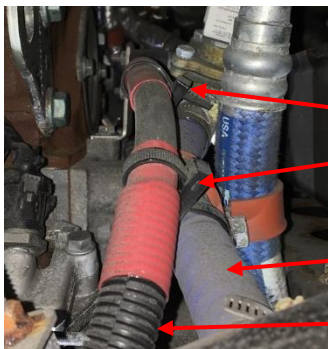
Nuts, MCI P/N: 19-
03-0519

Install the assembled starter cable bracket to the coach at an angle of 59° using the capscrew, MCI P/N: 19-01-1568. Torque the screw to 23-27 Ft-Lbs.



Screw, MCI P/N:
19-01-1568

Using double loop zip ties, MCI P/N: 19-11-3078, secure the air supply hose to the power cable as shown below.

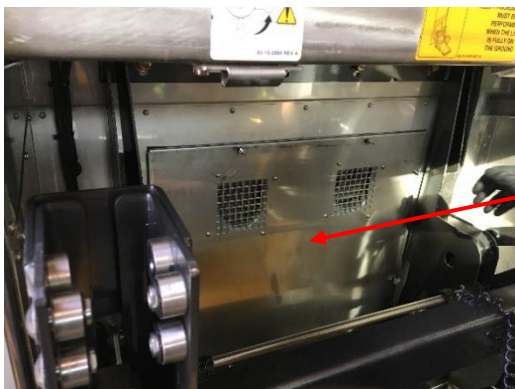


Double loop zip tie,
MCI P/N: 19-11-3078

Power cable

Air supply hose

Re-install the access door using the existing hardware from the first step.



Access panel

End of the procedure