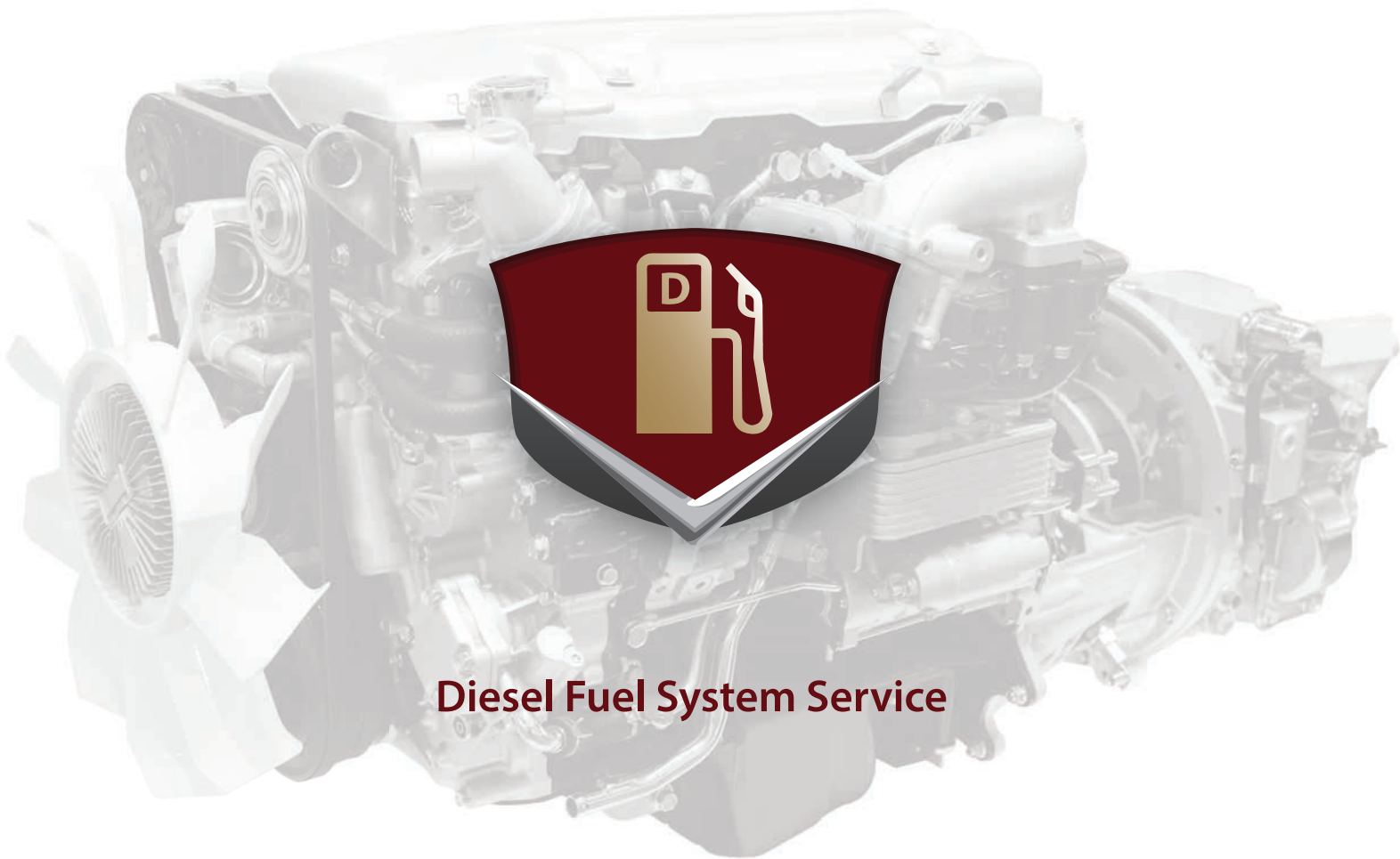




S-DFS 910 INSTRUCTIONAL MANUAL



Diesel Fuel System Service

S-DFS 910 Machine Set Up



PN 3002



Diesel Carbon Clean Tank - only product that goes in this tank is PN 3002 (Diesel Fuel System Cleaner)

Air Induction Tank- PN 3003 & PN 3004, only chemicals that go in this tank.

*** Keep threads and O rings greased on cap- Maintenance***



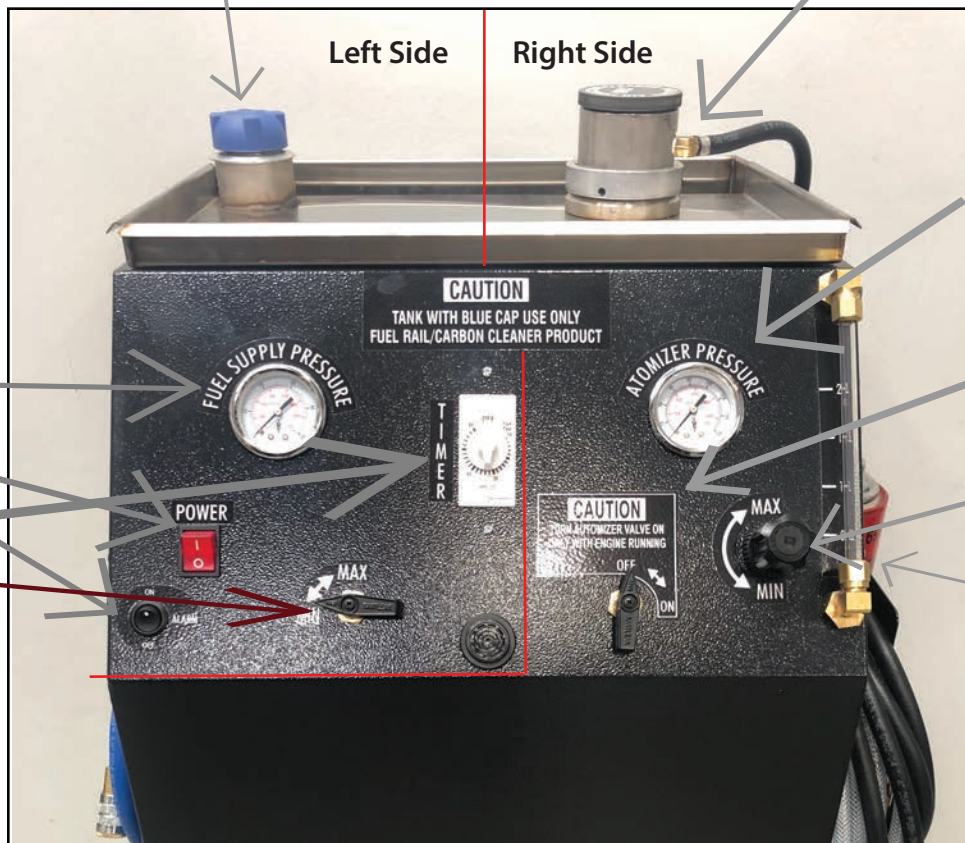
PN 3003



PN 3004

Left side is for fuel injection cleaning you need to use the left side of the machine.

- Fuel Supply Pressure gauge
- Power Button
- On/Off Alarm
- Timer
- Max/Min
- Sight tube on side of machine



Right side is for EGR cleaning & rinse. Atomizer pressure valve

Step 1: Set 60-80lbs depending on application.

Caution On/Off - turns pressure on the tank.

Max/Min- Sets atomizer pressure.

Sight Tube- cleaner and rinse

Step 2: Connect shop air

Step 4:

MUST have the truck idling every time before you start.

Step3:

Undo the cap on air induction cap and pour 2-4qt of PN 3003 cleaner into the tank.

Make sure all of 3003 cleaner is out of the machine before you add PN 3004 rinse chemical. You will need to check the clear long hose that attaches from the machine to the S-DFS 910-5. Sight tubes don't show the full tank.

Then you pour 2-4Q of 3004 rinse also in same tank after the EGR cleaning process is done

Cummins 6.7 Liter 2007-2009

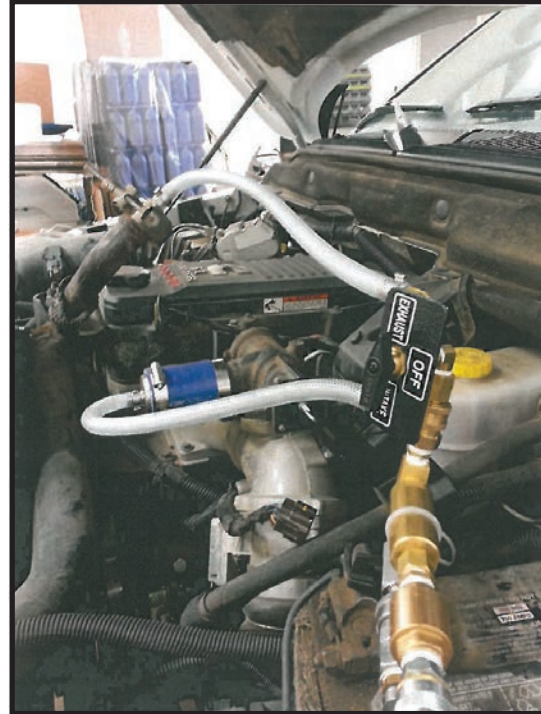
2500-3500



1. Remove plastic engine cover
2. Remove the exhaust pipe from EGR valve
3. Attach the S-DFS 910-17 & S-DFS 910-17-1 to S-DFS 910-5A. The S-DFS 910-17 attaches to the exhaust side and the S-DFS 910-17-1 to the intake side of the valve.
4. Attach the blue hose on adapter S-DFS 910-17-1 to the EGR Valve and tighten clamp. Install the aluminum adapter S-DFS 910-17 to exhaust pipe from EGR valve, using existing clamp.
5. Attach the S-DFS 910-5 to the S-DFS 910-5A. Install black and clear hoses from S-DFS 910 machine to the S-DFS 910-5. The black hose - to quick connect with ball valve. Install clear hose to other quick connect
6. Refer to page 2 on how to set up machine.
7. By disconnecting wiring from motor of cooler bypass, you are forcing the product to go through the cooler instead of the bypass tube. Connecting and disconnecting the electrical connector from the EGR cooler bypass motor opens and closed the EGR system.
(Ex. 5)

Note - If EGR system or variable vane turbo is not operating properly. You will need to do a presoak by connecting the machine to vehicle and without the vehicle running spray cleaner in exhaust mode.

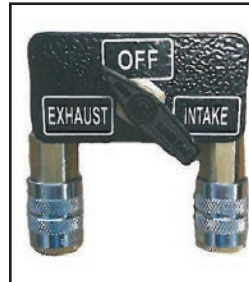
8. Start engine
9. Unplug EGR cooler bypass motor
10. Run 2-4qt of PN 3003 cleaner through the exhaust side.
11. Turn valve on S-DFS 910-5A to intake. Now install electrical plug to EGR cooler bypass motor, this will open EGR. Now run 2-4qt of PN 3003 cleaner through the intake.
12. Before adding PN 3004 rinse make sure all of PN 3003 cleaner is out of the machine, by checking the clear long hose that attaches from the machine to the S-DFS 910-5 fitting.
13. Pour in machine 1qt of PN 3004 rinse and again run 1/2qt through the intake and 1/2qt through exhaust.
14. Unhook the machine and fittings from the engine and restore engine to how it was prior to service.
15. Test drive or do a DPF regen.



S-DFS 910-5



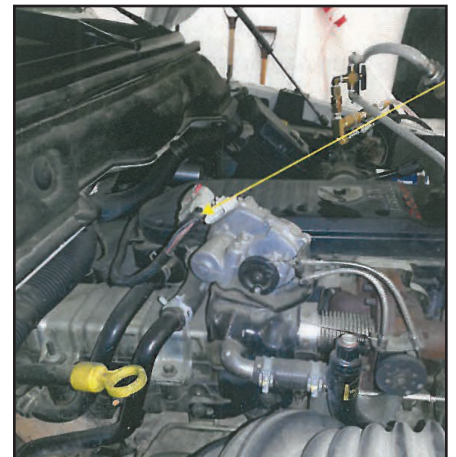
Part# S-DFS 910-5A



S-DFS 9107



Part# S-DFS 910-17-1

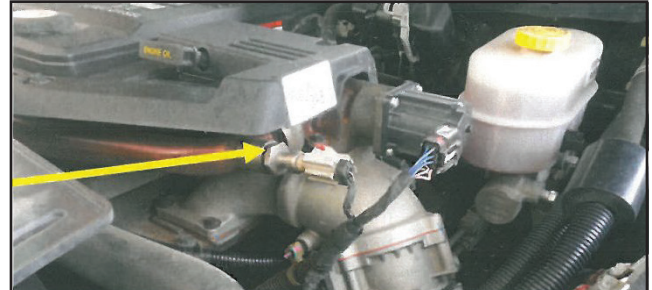


(Ex. 5)

Cummins 6.7 Liter 2010-2014 2500-3500



1. Remove temp sensor with a 1" wrench and install S-DFS 910-2 (Ex. 1)
2. Attach S-DFS 910-5 to S-DFS 910-2
3. Install black and clear hoses from S-DFS 910 machine to the S-DFS 910-5. The black hose - to quick connect with ball valve. Install clear hose to other quick connect.
4. Connect machine to shop air.
5. Refer to page 2 on how to set up a machine.
6. Start the engine.
7. Run 2-4qt of PN 3003 cleaner through the intake.
8. To close EGR valve to go into exhaust mode. Unplug EGR cooler bypass motor. (Ex. 3)
9. Run 2-4qt through the exhaust side.
10. Pour 1qt of PN 3004 rinse in the machine
11. Run 1/2qt through exhaust.
12. Plug back in the EGR cooler bypass motor.
13. Run 1/2qt through intake
14. Unhook the machine and fittings from the engine and restore to how it was prior the service
15. Test drive or do a DPF Regen.

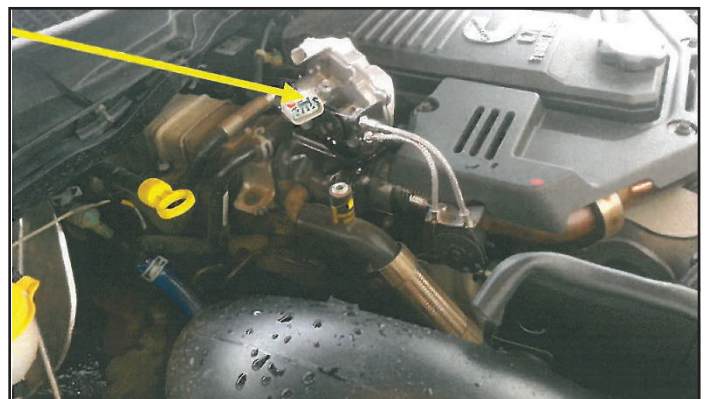
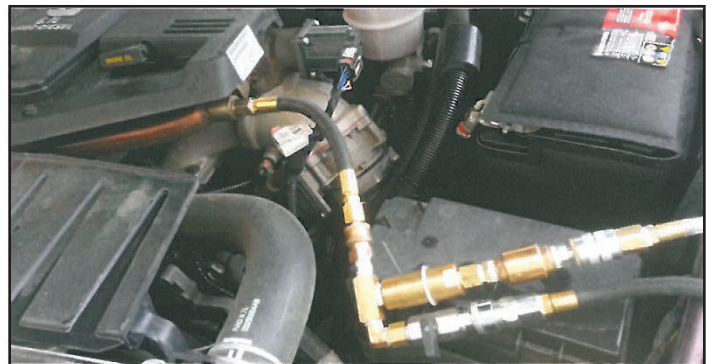


(Ex. 1)

S-DFS 910-2



S-DFS 910-5



(Ex. 3)

Cummins 6.7 Liter 2010-2014

2500-3500



1. Disconnect the fuel supply line before it reaches the diesel injector pump.
2. You will find this under the driver's side wheel well, besides the fuel filter.
3. Connect part# S-GMFQD38 to the supply line.
4. Connect part# S-GMFQD516 to the return line.
5. Attach part# S-UMQD38 to the supply coming from the tank.
6. Attach part# S-UMQD516 to the return line coming from the tank.
7. Attach part# S-LOOP to fitting to tie the fuel lines coming from the tank together.
8. From S-DFS 910 machine attach the blue supply line to the part# S-GMFQD38
9. Then attach the black return line from the S-DFS 910 machine to part# S-GMFQD516.
10. Pour 4qt of PN 3002 into tank with blue cap on machine.
11. Hook up 12 volt battery supply.
12. On the machine set the fuel supply gauge to 6-10lbs.
13. Check for leaks.
14. Start engine.
15. Complete Service



Part# S-Loop
Forms "tank to tank" loop on all vehicles. Used to extend vehicles return line during diagnostics



Part# S-GMFQD38
Female quick disconnect 3/8



Part# S-GMFQD516
Female quick disconnect 5/16



Part# S-UMQD516



Part# S-UMQD38

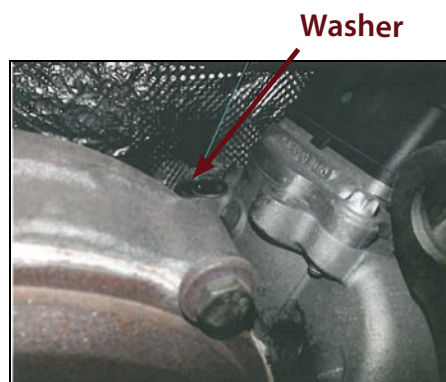
Jeep with Mercedes Engine 2008-2010



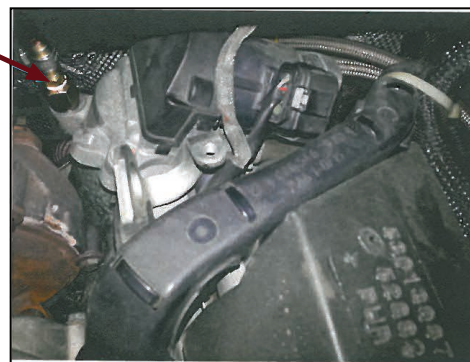
1. Remove engine cover.
2. Remove turbo heat shield.
3. Remove EGR exhaust sensor.
When removing sensor be careful not to loose aluminium washer.
4. Install EGR tool S-DFS 910-25.
5. Pour 2Q of PN 3003 cleaner into air induction cleaner tank.



6. Refer to page 2 on S-DFS 910 setup.
7. Start engine.
8. Turn on air valve on adapter S-DFS 910-5.
9. Turn on atomizer valve on S-DFS 910 machine.
10. At idol EGR valve is open 11-16%. To check use scan tool.
11. Run 2-4qt of PN 3003 cleaner through the engine.
12. Turn atomizer valve to off, open cap, pour in PN 3004 rinse. Run 1qt through engine.
13. Disconnect S-DFS 910 machine and adapters and re-assemble the jeep back to original state.
14. Test drive or do a DPF regen.



S-DFS 910-25



S-DFS 910-25



S-DFS 910-5

Chevy Duramax

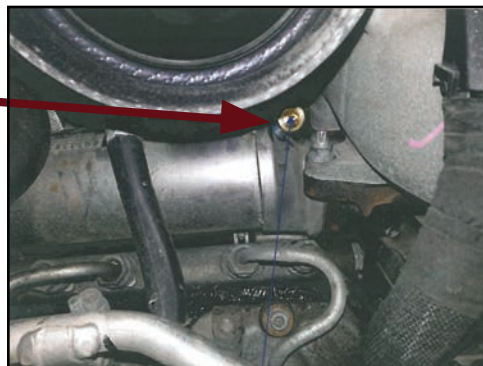
2002-2006



1. Remove the intake from the engine to be able to drill bit size 21/64 and tap 1/8 pipe thread as per picture.
2. Thread 1/8 pipe thread and install 90 degree service port elbow.
3. Install adapter #S-7112.
4. Install S-DFS 910-5 to the #S-7112
5. Install black and clear hoses from S-DFS 910 machine to the S-DFS 910-5. The black hose- to quick connect with ball valve. Install clear hose- to other quick connect.
6. Turn air valve on S-DFS 910-5
7. Refer to page 2 on how to set up machine and product.
8. With scan tool, open EGR valve to 20% run 2-4qt of PN 3003 cleaner through the intake side.
9. Then with the scan tool, close the EGR valve and run 2-4qt of PN 3003 cleaner through the exhaust side.
10. Pour 2-4qt of PN 3004 rinse in machine.
11. With scan tool open EGR valve to 20% and run 2-4qt of PN 3004 rinse through the intake side.
12. Then with the scan tool, close the EGR valve and run 2-4qt of PN 3004 through the exhaust side.

*If you do not have a scan tool, with truck idling, unplug EGR valve to close EGR, and plug back in EGR valve to open EGR

13. Test drive or do a DPF regen.



This is what you will need

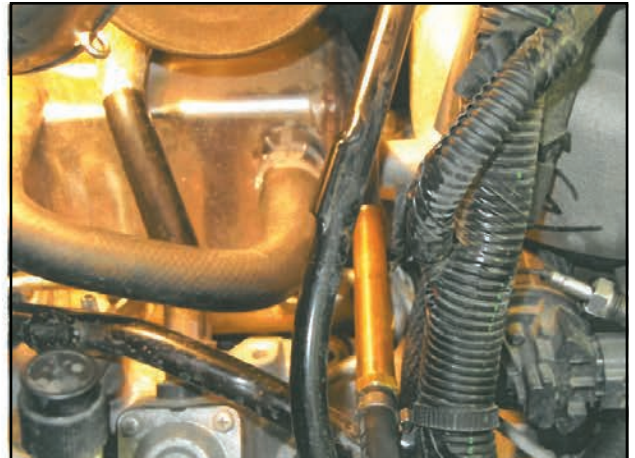


Part# S-7112- Now comes with clear hose

Chevy Duramax 2007-2011



1. Remove temp sensor from EGR cooler.
2. Install the S-DFS 910-6 into where you removed temp sensor.
3. Connect the S-DFS 910-5 to the S-DFS 910-6.
4. Install black and clear hoses from the DFS 910 machine to the S-DFS 910-5. The black hose - to quick connect with ball valve. Install clear hose - to other quick connect.
5. Refer to page 2 on how to set up the machine.
6. Turn air valve on S-DFS 910-5.
7. Fill S-DFS 910 machine with 2qt of PN 3003 cleaner.
8. Start engine.
9. Run 2-4qt PN 3003 cleaner through the intake using a scan tool and opening the EGR 20-40% max.
10. Close EGR valve with scan tool and run 2-4qt of PN 3003 cleaner through the exhaust side.
11. Before adding PN 3004 rinse make sure all of PN 3003 cleaner is out of the machine, by checking the clear long hose that attaches from the machine to the S-DFS 910-5 fitting.
12. Pour 1qt of PN 3004 rinse in the machine.
13. Run 1/2qt of PN 3004 rinse through the intake using a scan tool and opening the EGR 20-40% max.
14. Close EGR using the scan tool and run 1/2qt of PN 3004 rinse through the exhaust side.
15. Unhook the machine and fittings from the engine and restore engine to how it was prior to the service.
16. Test drive or do a DPF regen.



S-DFS 910-5

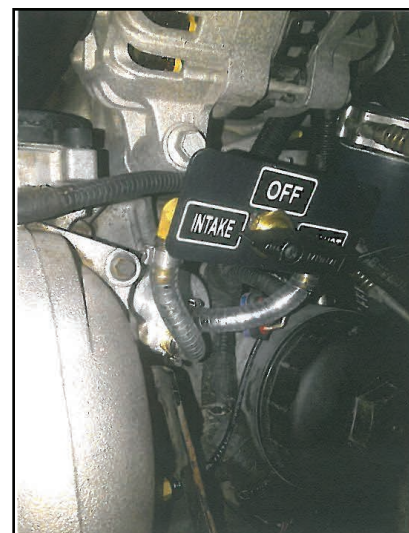


S-DFS 910-6

Ford 6.0 Liter Engine 2003-2007



1. Remove EGR valve (2 bolts)
2. Install S-DFS 910-1, turn valve to intake position and attach S-DFS 910-5A to S-DFS 910-5. Then connect S-DFS 910-5 to S-DFS 910-1
3. Install black and clear hoses from S-DFS 910 machine to the S-DFS 910-5. The black hose - to quick connect with ball valve. Install clear hose - to other quick connect.
4. Refer to Page 2 on how to set up machine.
5. Set air pressure on atomizer tank to 80psi
6. Start engine.
7. On the machine turn atomizer valve to ON position and open the air valve on S-DFS 910-5
8. Run 2-4qt of PN 3003 cleaner through the intake side.
9. Then turn valve on S-DFS 910-1 to exhaust and run 2-4qt of PN 3003 cleaner through the exhaust side of engine.
10. Before adding PN 3004 rinse make sure all of PN 3003 cleaner is out of the machine, by checking the clear long hose that attaches from the machine to the S-DFS 910-5 fitting.
11. Pour PN 3004 rinse into the machine.
12. Turn the valve on the S-DFS 910-1 back to intake position.
13. Run 1/2qt of PN 3004 rinse through the intake side.
14. Turn the valve on the S-DFS 910-1 to exhaust and run another 1/2qt of PN 3004 rinse through the exhaust.
15. Unhook the machine and fittings from the engine and restore to how it was prior to the service.
16. Test drive or do a DPF regen.



S-DFS 910-5A



S-DFS 910-5



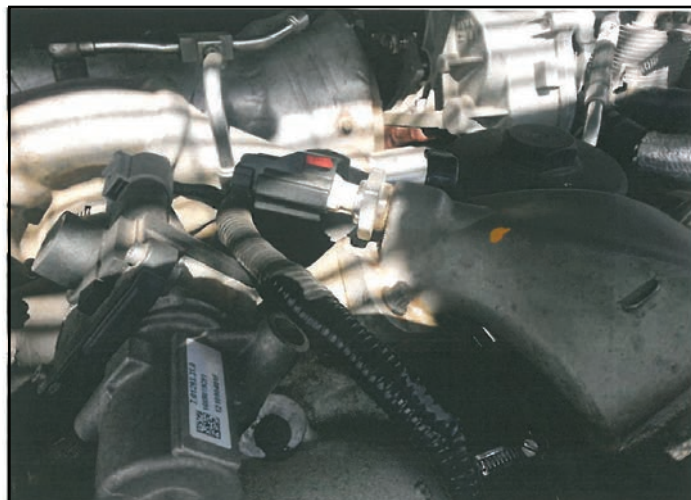
S-DFS 910-1



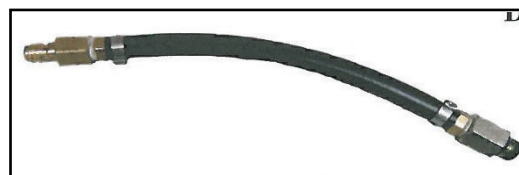
Ford 6.4 Liter Engine 2008-2009



1. Remove temperature sensor from EGR cooler.
2. Install adapter S-DFS 910-2 to the EGR cooler.
3. Attach the S-DFS 910-2 to the S-DFS 910-5 opening the ball valve.
4. Install black and clear hoses from S-DFS 910 machine to the S-DFS 910-5. The black hose-to the quick connect with ball valve. Install clear hose - other quick connect.
5. Refer to page 2 for machine set up.
6. Set air pressure on Atomizer tank to 80psi.
7. On the machine turn Atomizer valve to ON position.
8. Start engine.
9. Run 2-4qt of PN 3003 cleaner through the intake using a scan tool and opening the EGR 20-40% max.
10. Close EGR valve with scan tool and run 2-4qt of PN 3003 cleaner through the exhaust side.
11. Before adding PN 3004 rinse make sure all of PN 3003 cleaner is out of the machine, by checking the clear long hose that attaches from the machine to the S-DFS 910-5 fitting.
12. Pour 1qt of PN 3004 rinse in the machine.
13. Run 1/2qt of PN 3004 through the intake using a scan tool and opening the EGR 20-40% max.
14. Close EGR using the scan tool and run 1/2qt of PN 3004 rinse through the exhaust side.
15. Unhook the machine and fittings from the engine and restore engine to how it was prior to service.
16. Test drive or do a DPF regen.



S-DFS 910-2



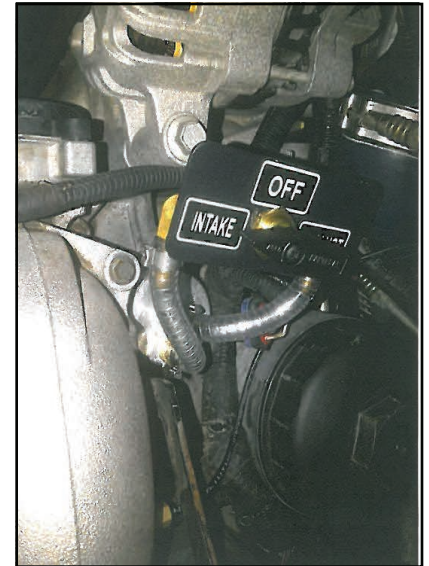
S-DFS 910-5



Ford 6.7 Liter Engine 2010-2014



1. Remove tube shown in picture (both ends)
2. Install S-DFS 910-18 adapter in place of the tube making sure that the intake and exhaust sides of the adapter are on the correct side. Screwing the adapter in with the screws you took out with the existing adapter.
3. Attach S-DFS 910-5A to S-DFS 910-18 and then attach to S-DFS 910-5
4. Install black and clear hoses from the S-DFS 910 machine to the S-DFS 910-5. The black hose- to the quick connect with ball valve. Install clear hose- to other quick connect.
5. Refer to page 2 on how to set up machine.
6. Set air pressure on atomizer tank to 80psi
7. Start Engine
8. On the machine turn atomizer valve to ON position and open the air valve on the S-DFS 910-5
9. Run 2-4qt of PN 3003 cleaner through the intake side
10. Then turn valve on S-DFS 910-18 to exhaust and run 2-4qt of PN 3003 cleaner through the exhaust side of engine.
11. Before adding PN 3004 rinse make sure all PN 3003 cleaner is out of the machine, by checking the clear long hose that attaches from the machine to the S-DFS 910-5 fitting.
12. Pour PN 3004 rinse into the machine.
13. Turn the valve on the S-DFS 910-18 back to intake position.
14. Run 1/2qt of PN 3004 rinse through the intake side
15. Turn the valve on S-DFS 910-18 to exhaust and run another 1/2qt of PN 3004 rinse through the exhaust
16. Unhook the machine and fittings from the engine and restore to how it was prior to service
17. Test drive or do a DPF regen.



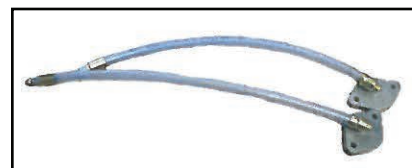
S-DFS 910-5



S-DFS 910-5A



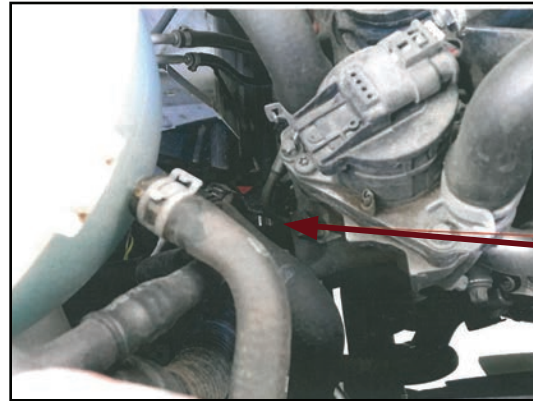
S-DFS 910-18



Mercedes - Sprinter 3.0L



1. Locate temperature sensor beside EGR valve.
2. Remove temperature sensor and install part# S-DFS 910-20. Then install S-DFS 910-5 to the S-DFS 910-20. Install the clear and black hoses from the machine to the S-DFS 910-5
3. Refer to page 2 for machine set up.
4. Pour 2qt of PN 3003 cleaner into the induction EGR tank on machine.
5. Start the vehicle, if you have a scan tool you will see at idle EGR valve will be open. Now turn atomizer valve on S-DFS 910 and run 2-4qt of PN 3003 cleaner into intake.
6. Close EGR valve with scan tool or if no scan tool, unplug EGR valve and this will close EGR valve. Then run 2-4qt of PN 3003 cleaner through exhaust.
7. Turn atomizer valve off to relieve pressure on the atomizer tank open up cap and pour 1qt of PN 3004 rinse into atomizer tank.
8. Turn atomizer valve on and run 1/2qt in exhaust and then open EGR valve with scan tool or if you do not have scan tool plug EGR valve back in. Run 1/2qt through the intake.
9. Test drive or do a DPF regen.



Temp Sensor



Part#
S-DFS 910-20

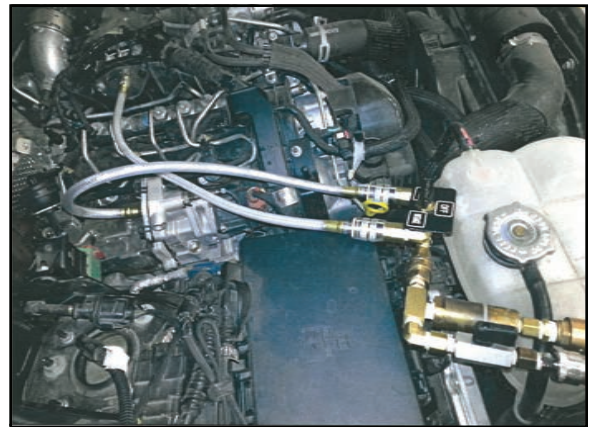


Part#
S-DFS 910-5

Jeep Grand Cherokee & ECO Diesel Truck 1500 - 2014 & up



1. Remove the exhaust pipe. As shown in the picture.
2. Install the S-DFS 910-31 to the intake side and S-DFS 910-31-1 to the exhaust side to where the exhaust pipe was removed.
3. Install the S-DFS 910-31 & S-DFS 910-31-1 to the S-DFS 910-5A. S-DFS 910-31 to intake and S-DFS 910-31-1 to exhaust.
4. Install black and clear hoses from S-DFS 910 machine to the S-DFS 910-5. The black hose- to the quick connect with ball valve. Install clear hose- to other quick connect.
5. Attach the S-DFS 910-5 to the S-DFS 910-5A
6. Refer to page 2 for machine setup.
7. Start vehicle
8. On the machine turn atomizer valve to ON position and open the air valve on the S-DFS 910-5
9. Turn the S-DFS 910-5A to intake and run 2-4qt of PN 3003 cleaner through the intake side
10. Then turn valve on S-DFS 910-5A to exhaust and run 2-4Lqt of PN 3003 cleaner through the exhaust side of the engine.
11. **Before adding PN 3004 rinse make sure all PN 3003 cleaner is out of the machine, by checking the clear long hose that attaches from the machine to the S-DFS 910-5 fitting.**
12. Pour PN 3004 rinse into the machine
13. Turn the valve on the S-DFS 910-5A back to intake position
14. Run 1/2qt of PN 3004 rinse through the intake side.
15. Turn the valve on S-DFS 910-5A to exhaust and run another 1/2qt of PN 3004 rinse though the exhaust
16. Unhook the machine and fittings from the engine and restore engine to how it was prior to service.
17. Test drive or do a DPF regen.



Part#
S-DFS 910-5



S-DFS 910-31 & S-DFS 910-31-1

