



SPRINTER 3.0L (MERCEDES ENGINE) DIESEL INDUCTION & EGR SERVICE JOB AID

Technical Support: 833-364-5932

Safety Recommendations:

- Safety glasses and gloves should be worn during the service.
- Keep loose clothing and/or tools secured while engine is running.
- Use in well ventilated area.



Adapters Required for Diesel Induction & EGR Service:

- #ZW21001 – EGR Manifold Assembly
- #AS21020 – Sprinter 3.0L Intake Adapter
- #AS21022 – Sprinter 3.0L EGR Exhaust Temperature Port Adapter
- #AS21021 – Sprinter 3.0L Exhaust Adapter



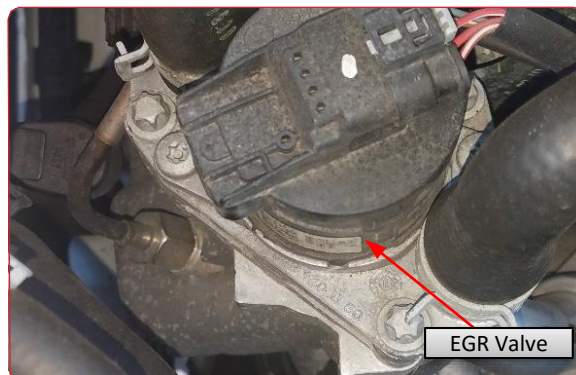
Preparing the Vehicle:

- Disconnect the EGR By-Pass Valve vacuum hose to close the EGR By-Pass Valve. The EGR By-Pass Valve is located on the rear of the EGR cooler at the rear of the engine. This will direct all cleaner back through the EGR cooler to the exhaust.



Preparing the Vehicle (continued):

- Use a scan tool to open the EGR Valve during the exhaust cleaning cycle so cleaner can flow through the (#AS21021) Sprinter 3.0L Exhaust Adapter, EGR cooler, By-Pass Valve and out the exhaust. Some models may default back to closed or partially closed so the tech will need to monitor each model to ensure the valve remains at least partially open to ensure the cleaner flows through the EGR valve.



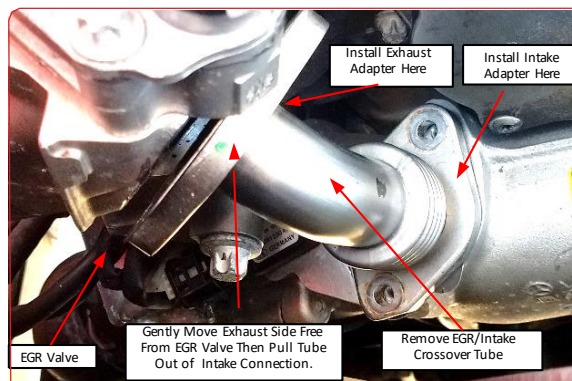


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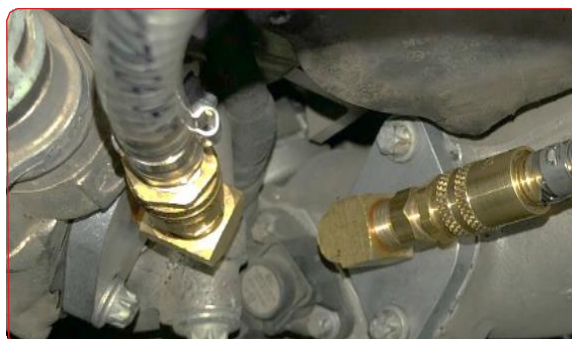
Preparing the Vehicle (continued):

- Remove the EGR/Intake Crossover Tube from EGR Valve and the engine intake. Install (#AS21020) Sprinter 3.0L Intake Adapter and (#AS21021) Sprinter 3.0L Exhaust Adapter.



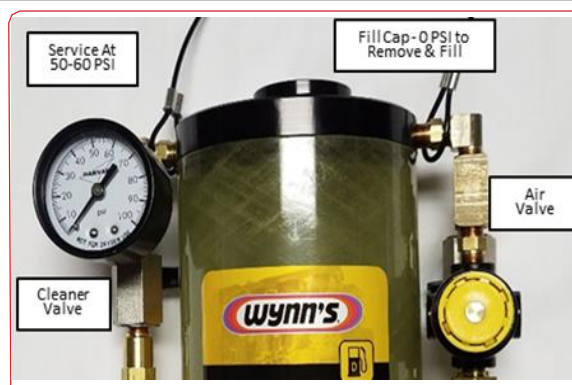
Preparing the Vehicle (continued):

- Attach (#ZW21001) EGR Manifold to (#AS21020) Sprinter 3.0L Intake Adapter and (#AS21021) Sprinter 3.0L Exhaust Adapter. Connect the (#ZW21001) EGR Manifold to (#ZW21000) Power Diesel™ Induction and EGR Tool.
- Pour the tank additive into vehicle's fuel tank.



Preparing the Power Diesel™ Induction & EGR Service Tool:

- Ensure Diesel Induction and EGR Service tool is depressurized, remove fill cap and fill with Wynn's Power Diesel™ Induction and EGR Cleaner (#ZW71032). Unless the cooler is frequently cleaned, two 32oz. (950 mL) bottles are recommended.
- Reinstall the fill cap and hang the tool from the hood latch. Ensure both valves on the tool are closed. Attach shop air and



Performing the Power Diesel™ Induction & EGR Service:

- Start the engine and bring to operating temperature.
- Increase engine RPM to 1500.
- Rotate (#ZW21001) EGR Manifold Assembly valve to "INTAKE".
- Open the air valve and then the cleaner valve to begin cleaning service on the engine intake.
- Do not stop or interrupt the service or reduce RPM during the INTAKE cleaning cycle. It's important that the higher RPM intake flow be maintained to avoid any puddling or accumulation of liquid cleaner in the intake system.
- Continue until half (32 oz) of the tank cleaner has been used to service the engine intake. Close both cleaner and air valves.





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Performing the Power Diesel™ Induction & EGR Service (continued):

- Rotate the (#ZW21001) EGR Manifold Assembly valve to “EXHAUST” to clean the EGR valve and cooler.
- Open the air valve and then the fluid/cleaner valve (pressure gauge side) and allow the cleaner to flow through the cooler until 8 oz (250 mL) has been consumed. Shut off the fluid/cleaner valve and allow air flow through the cooler for (2) minutes to evacuate loose deposits/liquids into the exhaust. Repeat until the remaining cleaner has been consumed.



Performing the Power Diesel™ Induction & EGR Service (continued):

- Let the vehicle run for 5-10 minutes after all the fluid/cleaner has been consumed. Rev the engine several times to help clear any remaining deposits/fluid.
- Turn the fluid and air valves off, rotate pressure regulator to 0 PSI and disconnect the shop air. Turn the vehicle off.



Completing the Power Diesel™ Induction & EGR Service:

- Remove the Power Diesel™ Induction and EGR Service Tool, EGR Manifold Assembly and EGR Adapters. Re-install EGR/ Intake Crossover Tube, EGR Exhaust Temperature Sensor, reattach the EGR By-Pass Valve vacuum line and the EGR Valve electrical connector.
- Road test the vehicle to ensure all soot and cleaner has been fully evacuated. After return, check and erase any engine codes set during the service. If equipped with DPF a manual regeneration may be required to clear any accumulated soot evacuated by the service.





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OPTIONAL SERVICE with Exhaust Temperature Port Adapter

Preparing the Vehicle:

- Disconnect the EGR By-Pass Valve vacuum hose to close the EGR By-Pass Valve. The EGR By-Pass Valve is located on the rear of the EGR cooler at the rear of the engine. This will direct all cleaner back through the EGR cooler to the exhaust.



Preparing the Vehicle (continued):

- Use a scan tool to open the EGR Valve during the exhaust cleaning cycle so cleaner can flow through the (#AS21022) Sprinter 3.0L Exhaust Temperature Port Adapter, EGR cooler, By-Pass Valve and out of the exhaust. Some models may default back to closed or partially closed so the tech will need to monitor each model to ensure the valve remains at least partially open to ensure the cleaner flows through the EGR valve.



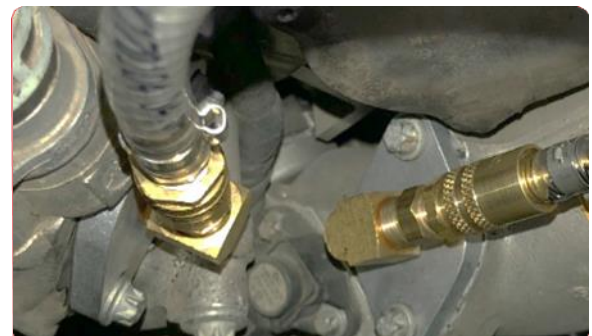
Preparing the Vehicle (continued):

- Remove the EGR Exhaust Temperature Sensor and install the EGR Exhaust Temperature Port Adapter (#AS21022).
- Close ball valve.



Preparing the Vehicle (continued):

- Remove the EGR/Intake Crossover tube from EGR Valve and the engine intake.
- Attach (#ZW210001) EGR Manifold to (#AS21020) Sprinter 3.0L Intake Adapter and (#AS21021) Sprinter 3.0L Exhaust Adapter. Connect the (#ZW21001) EGR Manifold to (#ZW21000) Power Diesel™ Induction and EGR Tool.
- Pour the tank additive into vehicle's fuel tank.





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OPTIONAL SERVICE with Exhaust Temperature Port Adapter

Preparing the EGR Tool:

- Ensure Diesel Induction and EGR Service tool is depressurized, remove fill cap and fill with Wynn's Power Diesel™ Induction and EGR Cleaner (#ZW71032). Unless the cooler is frequently cleaned, three 32oz. (950 mL) bottles are recommended.
- Reinstall the fill cap and hang the tool from the hood latch. Ensure both valves on the tool are closed. Attach shop air and set pressure on EGR tool to 50-60 PSI.



Performing the Power Diesel™ Induction & EGR Service (continued):

- Start the engine and bring to operating temperature.
- Rotate the (#ZW21001) EGR Manifold Assembly valve to "EXHAUST" to clean the EGR valve and cooler.
- Open the air valve and then the fluid/cleaner valve (pressure gauge side) and allow the cleaner to flow through the cooler until 8 oz (250 mL) has been consumed. Shut off the fluid/cleaner valve and allow air flow through the cooler for (2) minutes to evacuate loose deposits/liquids into the exhaust. Repeat until 40 oz. of cleaner has been consumed. Close both cleaner and air valves.



Performing the Power Diesel™ Induction & EGR Service (continued):

- Rotate the (#ZW21001) EGR Manifold Assembly valve to "OFF", disconnect the (#ZW21000) Power EGR and Induction Service Tool and connect directly to the EGR Exhaust Temperature Port Adapter (#AS21022).
- Open ball valve.



Performing the Power Diesel™ Induction & EGR Service (continued):

- Use the scan tool to close the EGR valve or disconnect the electrical power to the EGR valve so it remains closed
- Open the air valve (regulator side) and re-set the regulator to 50-60 PSI.
- Open the fluid/cleaner valve (pressure gauge side) and allow the cleaner to flow through the adapter until 8 oz (250 mL) has been consumed. Shut off the fluid/cleaner valve and allow air flow through the cooler for (2) minutes to evacuate loose deposits/liquids into the exhaust. Repeat until 24 oz. of the cleaner has been consumed. Close both cleaner and air valves.





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OPTIONAL SERVICE with Exhaust Temperature Port Adapter

Performing the Power Diesel™ Induction & EGR Service (continued):

- Close the ball valve on the #AS21022 Exhaust Temperature Port Adapter.
- Disconnect the (#ZW21001) Power Diesel™ EGR and Induction Service Tool from the (#AS21022) Exhaust Temperature Port Adapter.
- Reconnect the (#ZW21001) Power Diesel™ EGR and Induction Service Tool to the (#ZW21001) EGR Manifold Assembly.



Performing the Power Diesel™ Induction & EGR Service (continued):

- Increase engine RPM to 1500.
- Rotate (#ZW21001) EGR Manifold Assembly valve to "INTAKE".
- Open the air valve and then the cleaner valve to begin cleaning service on the engine intake.
- Do not stop or interrupt the service or reduce RPM during the INTAKE cleaning cycle. It's important that the higher RPM intake flow be maintained to avoid any puddling or accumulation of liquid cleaner in the intake system.
- Continue until entire (32 oz) of the cleaner has been used to service the engine intake. Close both cleaner and air valves.



Performing the Power Diesel™ Induction & EGR Service (continued):

- Turn the fluid and air valves off, rotate pressure regulator to 0 PSI and disconnect the shop air.
- Let the vehicle run for 5-10 minutes after all the fluid/cleaner has been consumed. Rev the engine several times to help clear any remaining deposits/fluid.
- Turn the vehicle off.



Completing the Power Diesel™ Induction & EGR Service:

- Remove the Diesel Induction and EGR Service Tool, EGR manifold and EGR adapters. Re-install EGR/Intake Crossover Tube, EGR Exhaust Temperature Sensor, reattach the EGR By-Pass Valve vacuum line and the EGR Valve electrical connector.
- Road test the vehicle to ensure all soot and cleaner has been fully evacuated. After return, check and erase any engine codes set during the service. If equipped with DPF a manual regeneration may be required to clear any accumulated soot evacuated by the service.

