DODGE CUMMINS 6.7 L DIESEL INDUCTION & EGR SERVICE JOB AID (V.2)

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 2014 and Older Diesel Induction & EGR Service:

- **#AS21016 -** Dodge Cummings 6.7L Exhaust Adapter
- **#ZW21010 -** Dodge Cummings 6.7L Manual Opener
- **#ZW21008 -** Dodge Cummings 6.7L Intake Adapter

Adapters Required for 2015 and Newer CAB Chasis Diesel Induction & EGR Service:

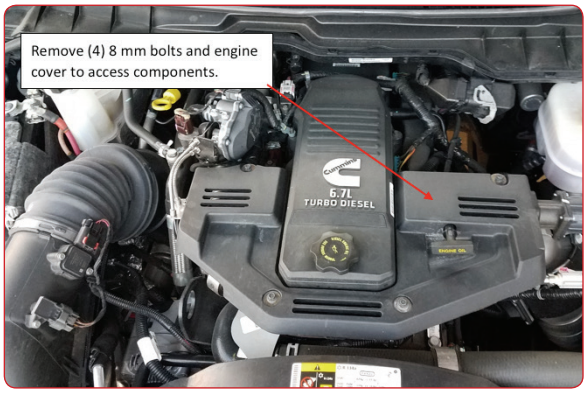
- **#ZW21004 -** Ford Power Stroke 6.7 Intake Adapter
- **#ZW21005 -** Ford Power Stroke 6.7 Exhaust Adapter

Note: The following is required for both services

- **#ZW21001 -** EGR Manifold Assembly

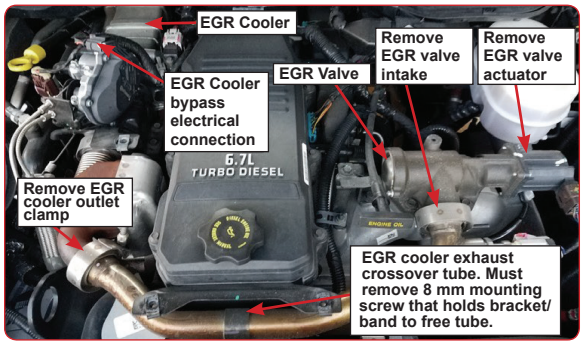
Preparing the Vehicle:

- Remove four (4) 8 mm bolts and engine cover to access components.

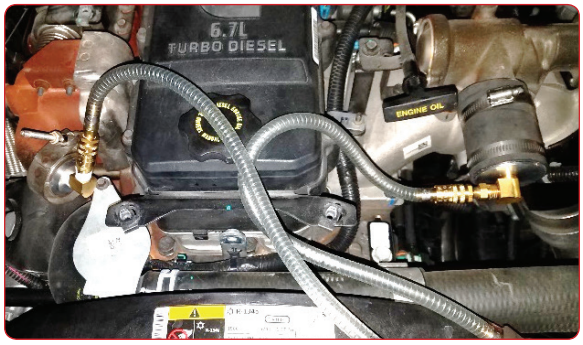


Preparing the Vehicle (continued):

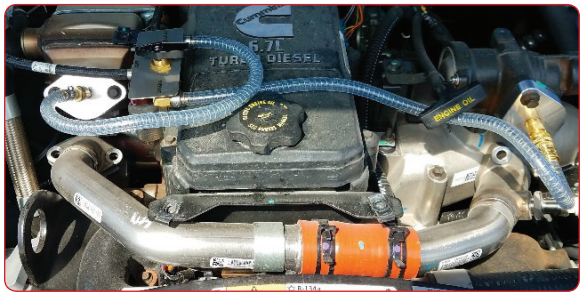
- Remove the EGR cooler outlet clamp, remove EGR exhaust crossover mounting band/bracket and remove EGR valve inlet clamp to allow crossover tube to removed. Remove and set aside gaskets.



- Attach Dodge Cummins 6.7L EGR Exhaust Adapter (#AS21016) directly to the exhaust bypass valve. CAB Chassis trucks do not have a bypass valve so connect directly to the cooler as shown.
- Attach Dodge Cummins 6.7L EGR Intake Adapter (#ZW21008) to the EGR valve by sliding rubber hose over EGR valve inlet flange and securing with the band clamp.



- On 2015 and newer CAB Chassis trucks unbolt the crossover tube flanges and rotate the crossover tube down allowing access for bolted flange adapters #ZW21004 and #ZW21005. Attach (#ZW21004) to the EGR valve and (#ZW21005) to the exhaust cooler.



- Attach Dodge Cummins 6.7L EGR Intake Adapter (#ZW21008) to the EGR valve by sliding rubber hose over EGR valve inlet flange and securing with the band clamp.
- Remove 4 screws and the EGR valve solenoid. Rotate the thumb screw on the manual opener counter clockwise but leave in the bracket. Install the EGR Manual Opener (#ZW21010) with 2 screws. Rotate the thumbscrew clockwise to open the EGR valve. Disconnect the EGR valve solenoid electrical connection

Preparing the Vehicle (continued):

- Attach the Dodge Cummins 6.7L EGR Intake Adapter (#ZW21008) or Ford Power Stroke 6.7 Intake Adapter (#ZW21004).
- Attach the Dodge Cummins 6.7L EGR Exhaust Adapter (#ZW21016) or Ford Power Stroke 6.7 Intake Adapter (#ZW21005) to EGR Manifold Assembly (#ZW21001).
- Attach EGR Manifold Assembly (#ZW21001) to Wynn's Power Diesel™ Induction & EGR Service Tool (#ZW21000).
- Add tank additive to vehicle's fuel tank.

Preparing the Wynn's Power Diesel™ Induction & EGR Tool:

- Insure Wynn's Power Diesel™ Induction and EGR Service Tool is depressurized, remove fill cap and fill with Wynn's Power Diesel™ Induction & EGR Cleaner (#71032). Unless the cooler is frequently cleaned, two (2) 32 oz. (950 ml) bottles are recommended.
- Reinstall the fill cap and hang the tool from the hood latch. Insure both valves on the tool are closed and EGR Manifold Assembly is positioned to"OFF". Attach shop air and set pressure on EGR tool to 50-60 psi.

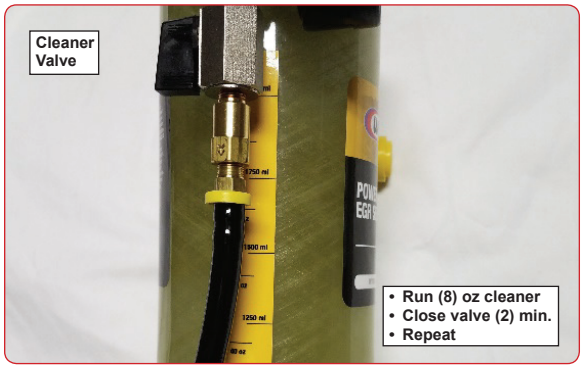
Performing the Diesel Induction & EGR Service:

- If the engine is hot, EGR cooler should be cooled before starting the service. With engine off and manifold turned to "EXHAUST", open air valve (on regulator side) and allow air to flow through the cooler for 2 minutes. Close air valve & return manifold to"OFF" position.

- Start the vehicle engine and disconnect the EGR cooler bypass valve electrical connector to close the EGR bypass valve, allowing back pressure from the tool to flow through the cooler and out the exhaust.

Performing the Diesel Induction & EGR Service (continued):

- Set the EGR Manifold Assembly to"EXHAUST".
- 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 cooler until 8 oz (250 ml) has been consumed. Shut off the fluid/cleaner valve and allow air flow through the cooler to evacuate loose deposits/liquids into the exhaust. Continue until half the product has been consumed.



- During the exhaust cleaning service, re-connect and disconnect the EGR bypass valve electrical connector several times to clean the bypass valve and port. The valve can be manually opened and closed by rotating the cable pulley attached to the valve. Skip this step on CAB Chassis trucks since there is no valve used.

- Set the EGR Manifold Assembly to "INTAKE" and open the fluid/cleaner valve (pressure gauge side). Continue the service until all fluid/cleaner has been consumed. Run at 1500 RPM's for best service.

CAUTION: If the engine begins knocking at any time during the Intake service, turn the EGR Manifold Assembly to "OFF" for 2 minutes to allow all the fluid to evacuate the engine. Turn the EGR Manifold Assembly to "INTAKE" and continue the service.

- Partially closing and re-opening the EGR valve several times with the manual opener during the Intake service will help clean the valve more completely. Do not close completely!
- Let the vehicle run for 5-10 minutes after all of 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 Diesel Induction & EGR Service:

- Remove the Wynn's Power Diesel™ EGR Service Tool, EGR Manifold Assembly and EGR adapters. Re-install the EGR crossover pipe and EGR bypass valve electrical connection.
- Road test the vehicle to insure all carbon 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 carbon evacuated by the EGR service.

