



BULLY DOG



QUICK INSTALL GUIDE: EXHAUST MANIFOLDS

Applications

Part

Cummins® N14 (Replaces OEM 307 8323)	85100
Cummins® ISX (Replaces OEM 388 0199)	85101
Cummins® ISX (Replaces OEM 368 2959)	85102
Cummins® ISX (Replaces OEM 368 3789)	85103
CAT® 3406E C-15 & C-16 (Replaces OEM 146-9445)	85200
CAT® with Holset Turbo (Replaces OEM 146-9445)	85220
CAT® C-15 ACERT (Replaces OEM 231-3462)	85201
CAT® C-15 (Replaces OEM 150-1914 and 100-5694)	85202
CAT® C-15 ACERT (Replaces OEM 231-6127)	85203
CAT® C-13 (Replaces OEM 251-4410)	85204
CAT® 3406E, C-15, C16 (Replaces OEM 150-1914)	85205
Detroit Series 60® (Replaces OEM 235 32122)	85300
Detroit Series 60® (Replaces OEM 235 19348 and 235 11978)	85301
Detroit Series 60® (Replaces OEM 235 36449)	85302

Not legal for sale or use on pollution controlled vehicles based and registered in California.

Introduction

Bully Dog's ceramic coated exhaust manifolds are the fastest flowing exhaust manifolds in the industry and provide quicker turbo spool, higher power output and more fuel economy for class 8 engines. These premium manifolds are designed as a direct bolt-on OEM replacement.

Improper installation can result in engine damage; it is highly recommended that this manifold be installed by a qualified and experienced mechanic.

Installation

Part 1: Removing Stock Manifold

1. If necessary, remove air duct work and air filter.
2. Remove air-to-air tubes.
3. Disconnect the exhaust tubing and remove the oil lines from the turbo.
4. Remove the turbo.
5. If necessary, remove the thermostat housing.
6. Unbolt and remove the exhaust manifold.

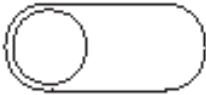
Part 2: Prepare Manifold Mounting Surface

1. Stuff rags in the exhaust ports to prevent debris from entering the engine.
2. Clean gasket surface thoroughly.
3. If necessary, replace studs.
4. Remove rags when cleaning is complete.
5. Install new gaskets and seals.

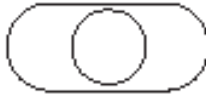
Part 3: Install Bully Dog Manifold (Reverse of step 1)

1. Install the Bully Dog Manifold.
 - a. Make sure to center the studs in the hole in the manifold. This allows the manifold to expand and contract without contacting (and breaking) a stud.

Incorrect



Correct



Incorrect



2. Install the bolts/studs with appropriate spacers and washers.
 - a. Torque to proper specifications.
 - b. Use the factory tightening sequence.
3. If necessary, replace the thermostat housing using new gaskets.
4. Reinstall turbo and torque to proper specifications.
5. Reinstall the oil lines and reconnect the exhaust tubing.
6. Reconnect the air-to-air tubes.
7. If necessary, reconnect the air duct work and air filter.
8. Start the vehicle and let run at idle.
9. Check for leaks.



TROUBLESHOOTING:

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