

2007 ENGINE

Exhaust System - Repair Instructions - Cooper S

00 EXHAUST SYSTEM, COMPLETE

18 00 020 REMOVING AND INSTALLING COMPLETE EXHAUST SYSTEM (N14)

WARNING: Danger of burning and other injuries!
These tasks should only be carried out on an exhaust system that has cooled down.
Removal of the exhaust system must be carried out with the assistance of a second person.

Unfasten clip.

Tightening torque: 18 31 5AZ, see **18 31 EXHAUST SYSTEM, COMPLETE**

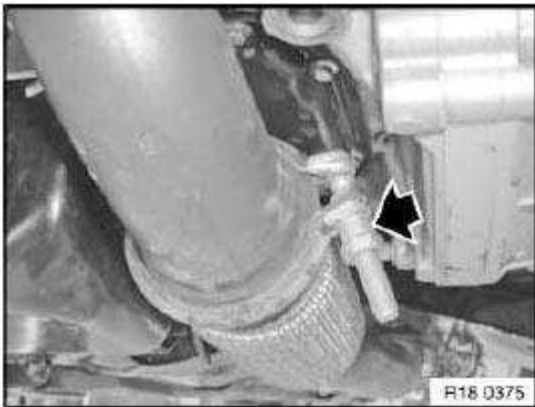


Fig. 1: Locating Clip

Courtesy of BMW OF NORTH AMERICA, INC.

Spray rubber mount (1) with antiseize agent and detach from rear muffler (2).

NOTE: Illustration shows and text refers to the left rubber mount.

The procedure is identical for the right filter side.

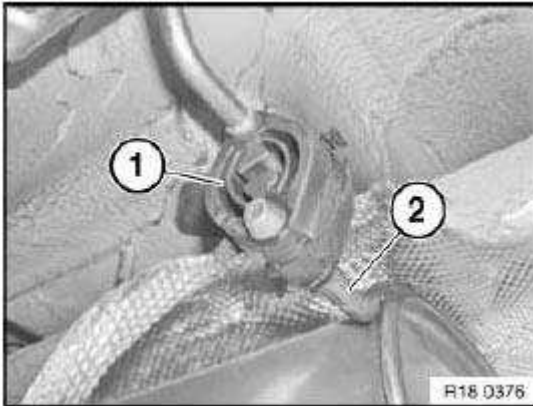


Fig. 2: Rubber Mount And Rear Muffler
Courtesy of BMW OF NORTH AMERICA, INC.

Spray rubber mount (1) with antiseize agent and detach from exhaust pipe (2).

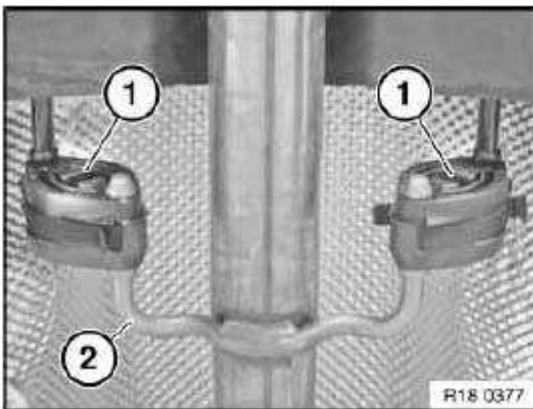


Fig. 3: Rubber Mount With Exhaust Pipe
Courtesy of BMW OF NORTH AMERICA, INC.

Support exhaust system with a suitable lifter.

Release screws and remove cross-brace (1).

Lower and remove exhaust system with assistance of a second person.

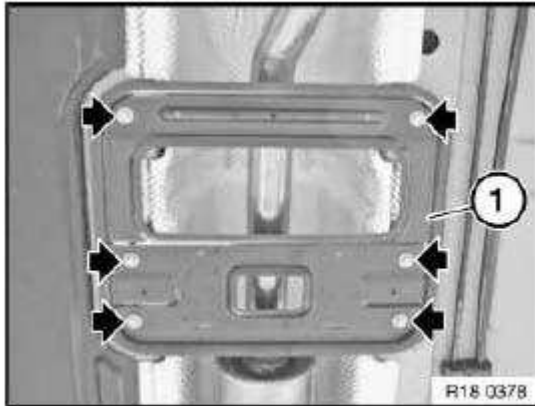


Fig. 4: Locating Cross-Brace

Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: Check rubber mount for damage, replace if necessary.

12 MUFFLERS, PETROL

18 12 030 REMOVING AND INSTALLING/REPLACING REAR MUFFLER (N12, N14)

Special tools required:

- 00 2 210

WARNING: Scalding hazard!

Only perform these tasks after exhaust system has cooled down.

Cutting line (1) for rear muffler is designated by a notch in the pipe.

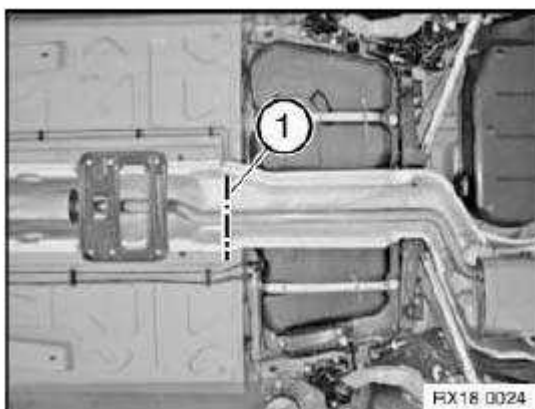


Fig. 5: Line For Rear Muffler Notch In Pipe

Courtesy of BMW OF NORTH AMERICA, INC.

Cut exhaust pipe with special tool 00 2 210 at marked point and deburr.

IMPORTANT: Risk of damage!

Secure exhaust pipe of rear muffler against falling down with assistance of a second person.

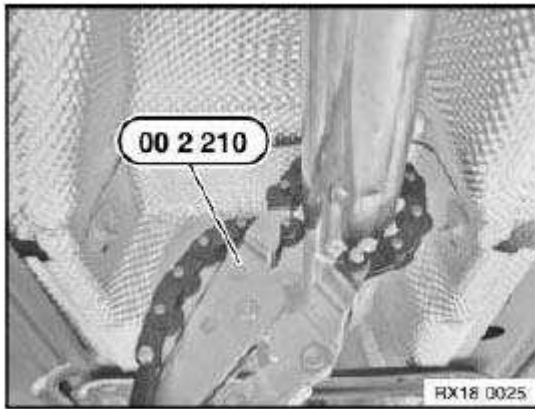


Fig. 6: Exhaust Pipe With Special Tool (00 2 210)
Courtesy of BMW OF NORTH AMERICA, INC.

Spray rubber mount (1) with antiseize agent and detach from rear muffler (2).

NOTE: Illustration shows and text refers to the right rubber mount. The procedure is identical for the left side.

Lower and remove rear muffler with assistance of a second person.

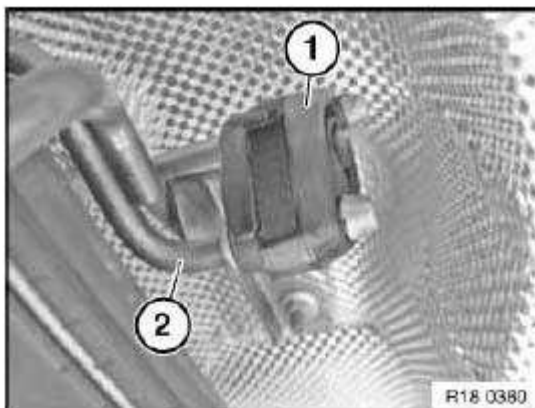


Fig. 7: Rubber Mount With Rear Muffler
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Connect rear muffler to front muffler by means of a clamp.

Align rear muffler to rear apron.

Align clamp and tighten down.

Tightening torque: 18 31 6AZ, see **18 31 EXHAUST SYSTEM, COMPLETE**

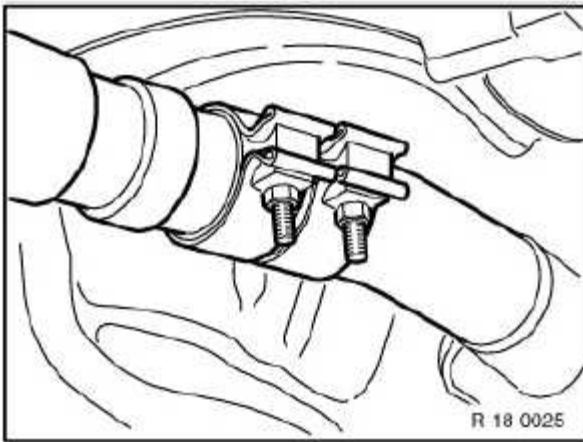


Fig. 8: Rear Muffler To Front Muffler With Clamp
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: Check exhaust system for leaks.

18 12 040 REMOVING AND INSTALLING/REPLACING FRONT MUFFLER (N12, N14)

Special tools required:

- 00 2 210

WARNING: Scalding hazard!

Only perform these tasks after exhaust system has cooled down.

Unfasten clip.

Tightening torque: 18 31 5AZ, see **18 31 EXHAUST SYSTEM, COMPLETE**

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Fig. 9: Exhaust System Clip

Courtesy of BMW OF NORTH AMERICA, INC.

Cutting line (1) for front muffler is designated by a notch in the pipe.

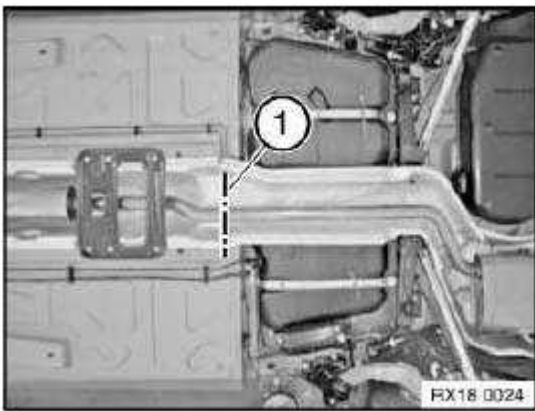


Fig. 10: Line For Rear Muffler Notch In Pipe

Courtesy of BMW OF NORTH AMERICA, INC.

Cut exhaust pipe with special tool 00 2 210 at marked point and deburr.

IMPORTANT: Risk of damage!

Secure exhaust pipe of rear muffler against falling down.

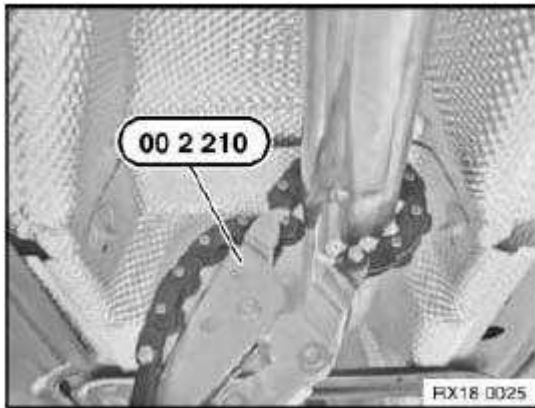


Fig. 11: Special Tool (00 2 210)

Courtesy of BMW OF NORTH AMERICA, INC.

Spray rubber mount (1) with antiseize agent and detach from exhaust pipe (2).

NOTE: Check rubber mount for damage, replace if necessary.

Lower and remove front muffler with assistance of a second person.

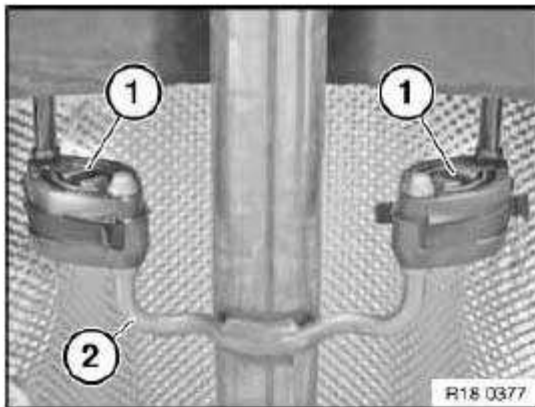


Fig. 12: Rubber Mount With Exhaust Pipe

Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Connect rear muffler to front muffler by means of a clamp.

Align rear muffler to rear apron.

Align clamp and tighten down.

Tightening torque: 18 31 6AZ, see **18 31 EXHAUST SYSTEM, COMPLETE**

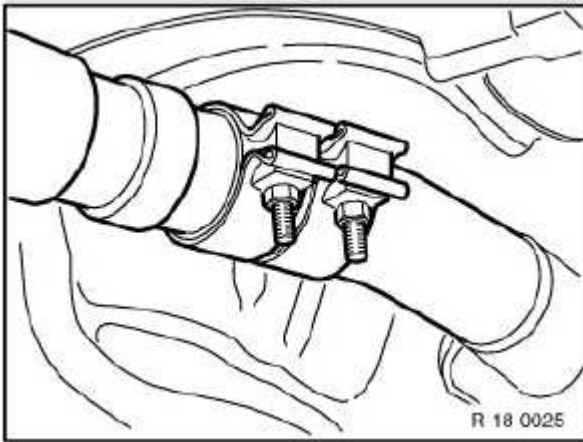


Fig. 13: Rear Muffler To Front Muffler With Clamp
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: Check exhaust system for leaks.

32 EXHAUST CATALYTIC CONVERTER

18 32 005 REMOVING AND INSTALLING/REPLACING CATALYTIC EXHAUST-GAS CONVERTER (N14)

WARNING: Scalding hazard!

Only perform these tasks after exhaust system has cooled down.

Necessary preliminary tasks:

- Move front panel into assembly position, see 41 33 600 MOVING FRONT PANEL INTO ASSEMBLY POSITION

NOTE: The oxygen sensors are in danger of being damaged when the exhaust manifolds are removed and installed.

Remove control sensor, see 11 78 510 REPLACING OXYGEN SENSOR

Remove monitor sensor

Release screw and remove holder (1).

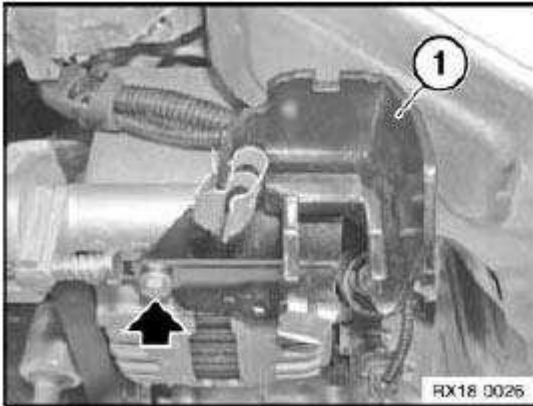


Fig. 14: Holder And Screw

Courtesy of BMW OF NORTH AMERICA, INC.

Release screws and remove upper heat shield (1).

Tightening torque: 11 65 7AZ, see **11 65 TURBOCHARGER AND CONTROL**

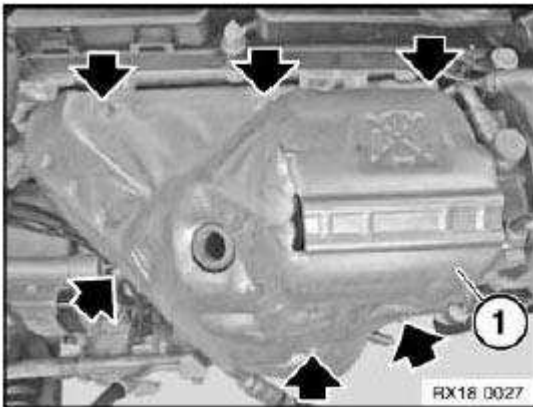


Fig. 15: Upper Heat Shield And Screw

Courtesy of BMW OF NORTH AMERICA, INC.

Release screws and remove lower heat shield (1).

Tightening torque: 11 65 7AZ, see **11 65 TURBOCHARGER AND CONTROL**

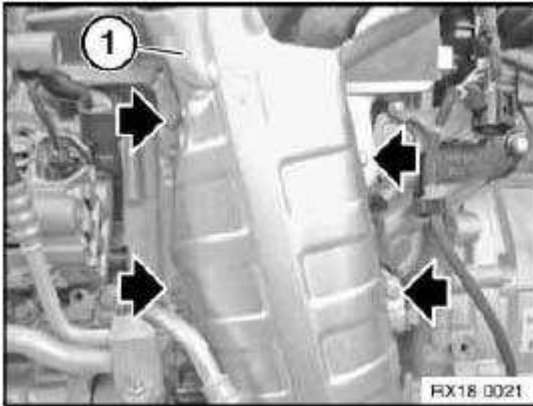


Fig. 16: Lower Heat Shield And Screw
Courtesy of BMW OF NORTH AMERICA, INC.

Unscrew nuts.

Installation:

Replace nuts.

Tightening torque: 18 31 53AZ, see **18 31 EXHAUST SYSTEM, COMPLETE**

Unscrew nuts (1).

Tightening torque: 18 31 4AZ, see **18 31 EXHAUST SYSTEM, COMPLETE**

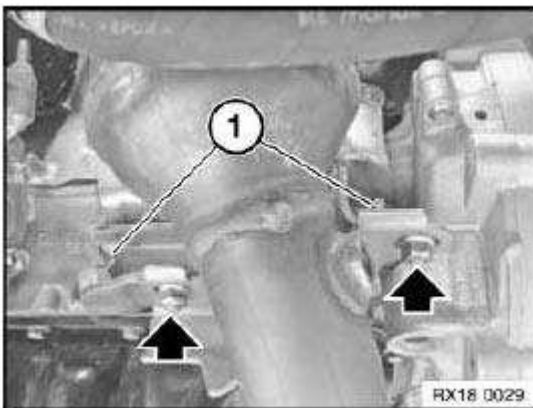


Fig. 17: Lower Heat Shield Nuts
Courtesy of BMW OF NORTH AMERICA, INC.

Loosen screws and nut.

Remove exhaust manifold (1).

Installation:

- Replace seal.
- Clean sealing surfaces.
- Apply a thin coat of copper paste to thread.
- Tightening torque: 18 31 1AZ, see **18 31 EXHAUST SYSTEM, COMPLETE**

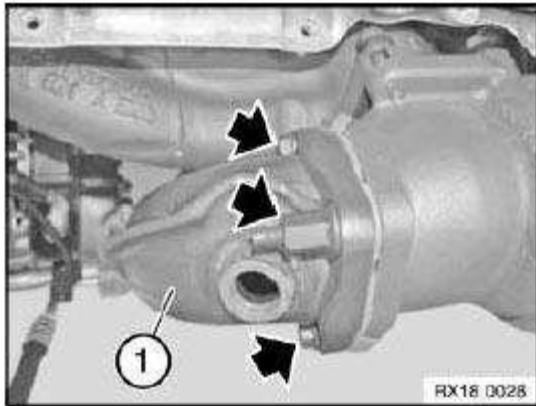


Fig. 18: Holder And Screw

Courtesy of BMW OF NORTH AMERICA, INC.

40 EXHAUST MANIFOLD WITH

18 40 040 REMOVING AND INSTALLING/REPLACING EXHAUST MANIFOLD (N14)

Special tools required:

- 17 2 051

WARNING: Scalding hazard!

These tasks should only be carried out on an exhaust system that has cooled down.

Necessary preliminary tasks:

- Drain coolant
- Remove coolant expansion tank
- Remove catalytic exhaust-gas converter

Release clamp and detach charge-air duct (1).

Release clamps (2) and detach air intake hose (3).

Remove clean air pipe (4).

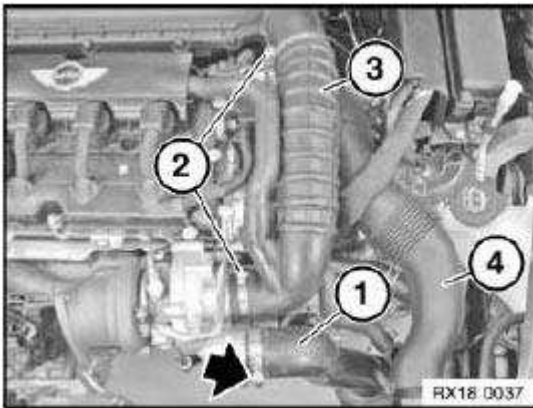


Fig. 19: Locating Air Pipe, Clamps And Charge-Air Duct
Courtesy of BMW OF NORTH AMERICA, INC.

Release spring strap with special tool 17 2 051 and detach coolant hose (1).

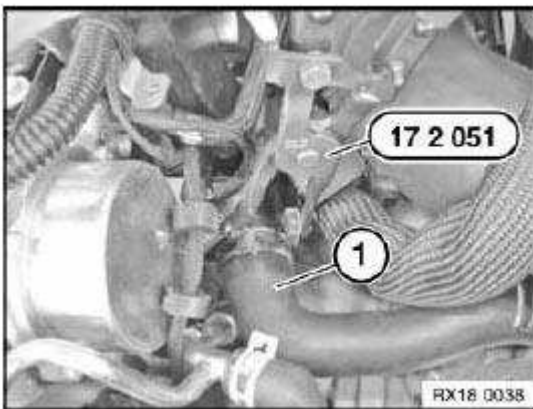


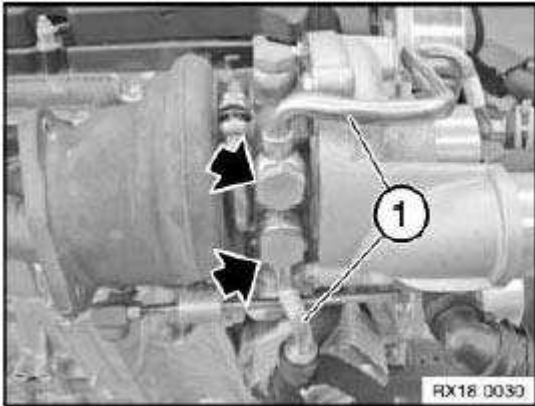
Fig. 20: Locating Turbocharger From Exhaust Manifold
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws and detach lines (1).

Installation:

Replace seals.

Tightening torque: 11 65 8AZ, see **11 65 TURBOCHARGER AND CONTROL**

**Fig. 21: Detaching Lines And Screw**

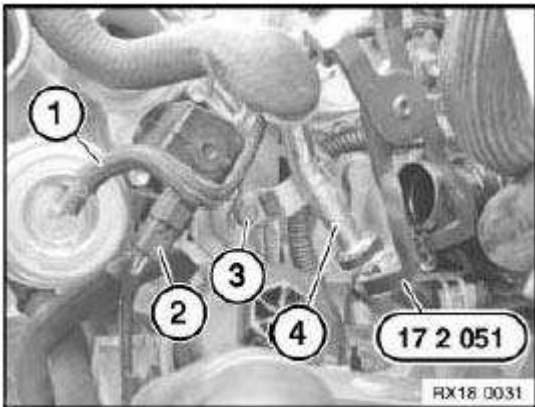
Courtesy of BMW OF NORTH AMERICA, INC.

Pull off hose (1).

Unlock connector (2) and remove.

Unscrew bolt (3).

Release spring strap with special tool 17 2 051. Detach line (4) and remove.

**Fig. 22: Spring Strap With Special Tool (17 2 051)**

Courtesy of BMW OF NORTH AMERICA, INC.

Release screw (1) and detach line (2).

Installation:

Replace seals.

Tightening torque: 11 65 4AZ, see **11 65 TURBOCHARGER AND CONTROL**

Release screw (3) and detach line (4).

Installation:

Replace sealing ring.

Tightening torque: 11 65 5AZ, see **11 65 TURBOCHARGER AND CONTROL**

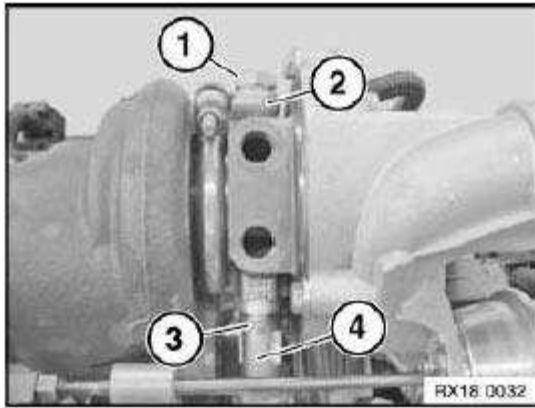


Fig. 23: Detach Line And Screw

Courtesy of BMW OF NORTH AMERICA, INC.

Release screw (1).

Tightening torque: 11 65 3AZ, see **11 65 TURBOCHARGER AND CONTROL**

Release screw (2) and remove holder (3).

Tightening torque: 11 65 6AZ, see **11 65 TURBOCHARGER AND CONTROL**

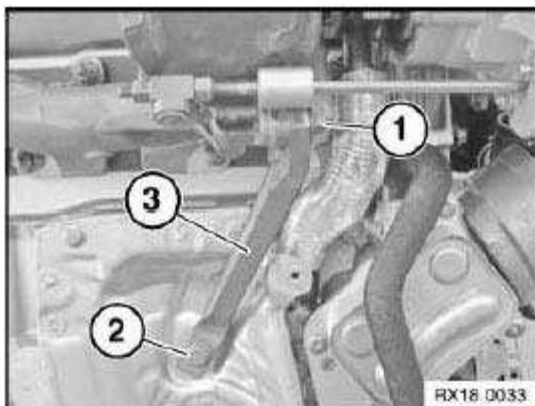


Fig. 24: Holder And Screw

Courtesy of BMW OF NORTH AMERICA, INC.

Release nuts and remove exhaust manifold (1).

Installation:

- Replace seal and nuts.
- Clean sealing surfaces.
- Apply a thin coat of copper paste to thread.
- Tightening torque: 18 40 1AZ, see **18 40 EXHAUST SYSTEM, COMPLETE**

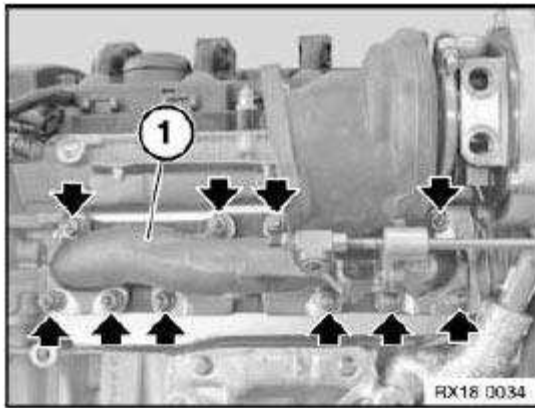
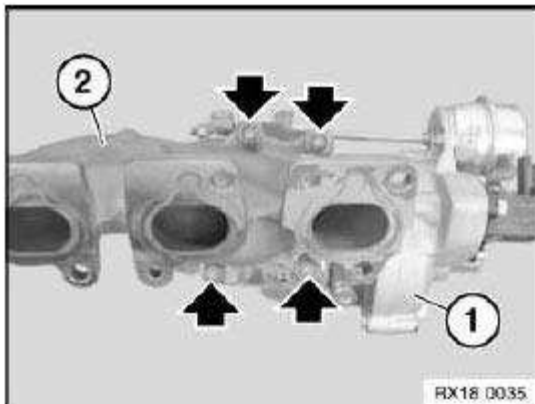


Fig. 25: Locating Exhaust Manifold And Nuts
Courtesy of BMW OF NORTH AMERICA, INC.

Release nuts and remove turbocharger (1) from exhaust manifold (2).

Installation:

- Replace seal and nuts.
- Clean sealing surfaces.
- Apply a thin coat of copper paste to thread.
- Tightening torque: 11 65 1AZ, see **11 65 TURBOCHARGER AND CONTROL**



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Fig. 26: Locating Turbocharger From Exhaust Manifold

Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: Assemble engine.
Top up coolant.
Check engine oil level.
Clear DME fault memory.