

GROUP 15

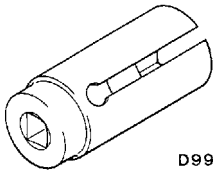
INTAKE AND EXHAUST

GENERAL

OUTLINE OF CHANGE

The service procedures have been established due to the adoption of the intake manifold made of steel pipe for the 4G1 engine and the exhaust manifold incorporated with the catalytic converter. Other service procedures are the same as before.

SPECIAL TOOL

Tool	Number	Name	Use
 D998770	MD998770	Oxygen sensor wrench	Removal/Installation of oxygen sensor

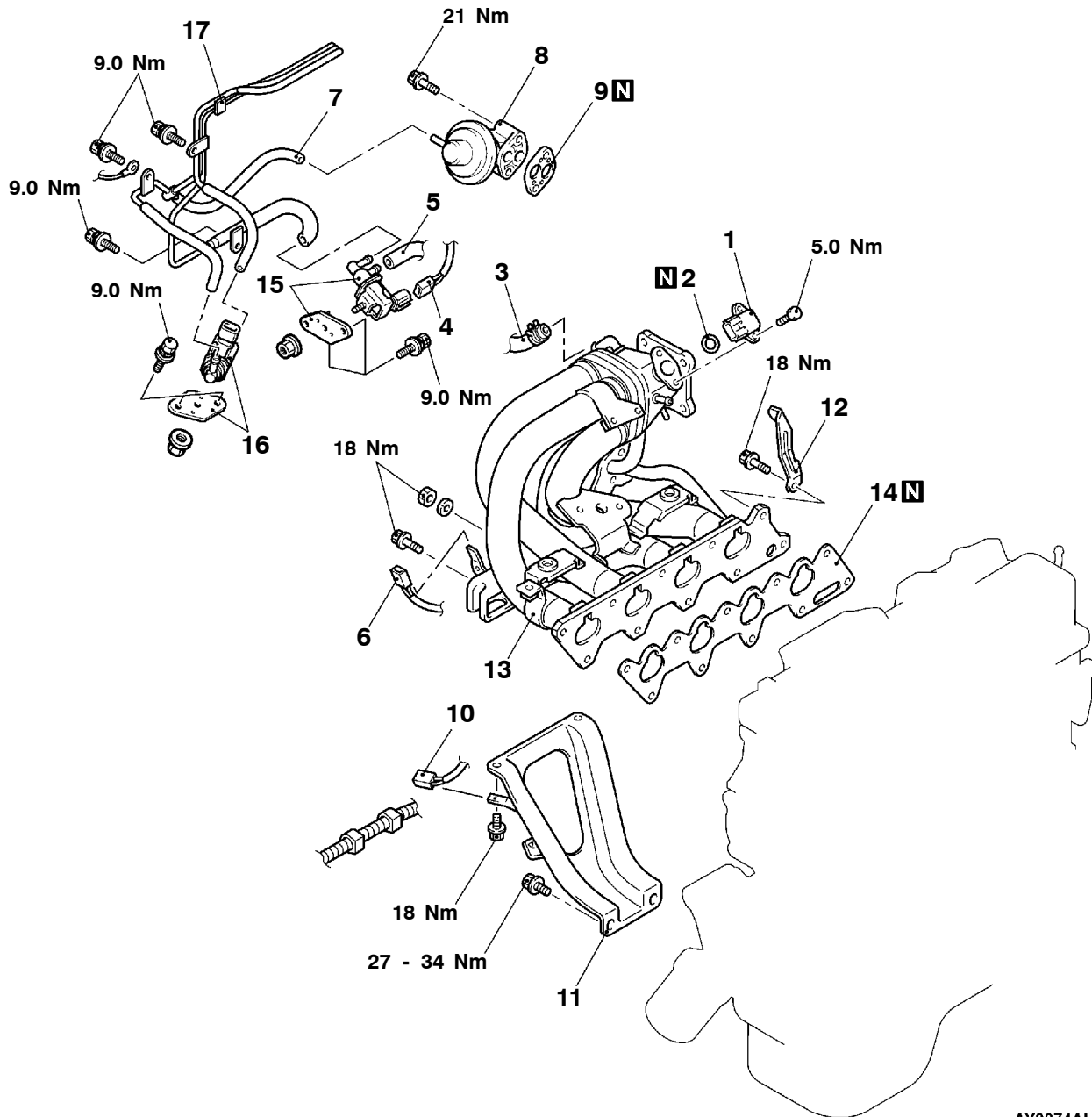
INTAKE MANIFOLD

REMOVAL AND INSTALLATION

<4G1>

Pre-removal and Post-installation Operation

- Prevention of Fuel Discharge <before removal only>
- Fuel Leak Check <after installation only>
- Accelerator Cable Adjustment
- Engine Coolant Draining and Supplying
- Air Cleaner Removal and Installation
- Throttle Body Removal and Installation
- Fuel Pressure Regulator, Delivery Pipe and Injector Assembly Removal and Installation (Refer to GROUP 13A - Injector.)



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Removal steps

1. Vacuum sensor
2. O-ring
3. Brake booster vacuum hose connection
4. Purge control solenoid valve connector
5. Vacuum hose connection
6. Detonation sensor connector
7. Vacuum hose connection
8. EGR valve
9. EGR valve gasket
10. Oxygen sensor (rear) connector
11. Intake manifold stay
12. Engine hanger
13. Intake manifold
14. Intake manifold gasket
15. Purge control solenoid valve assembly
16. EGR solenoid valve assembly
17. Vacuum pipe and hose assembly

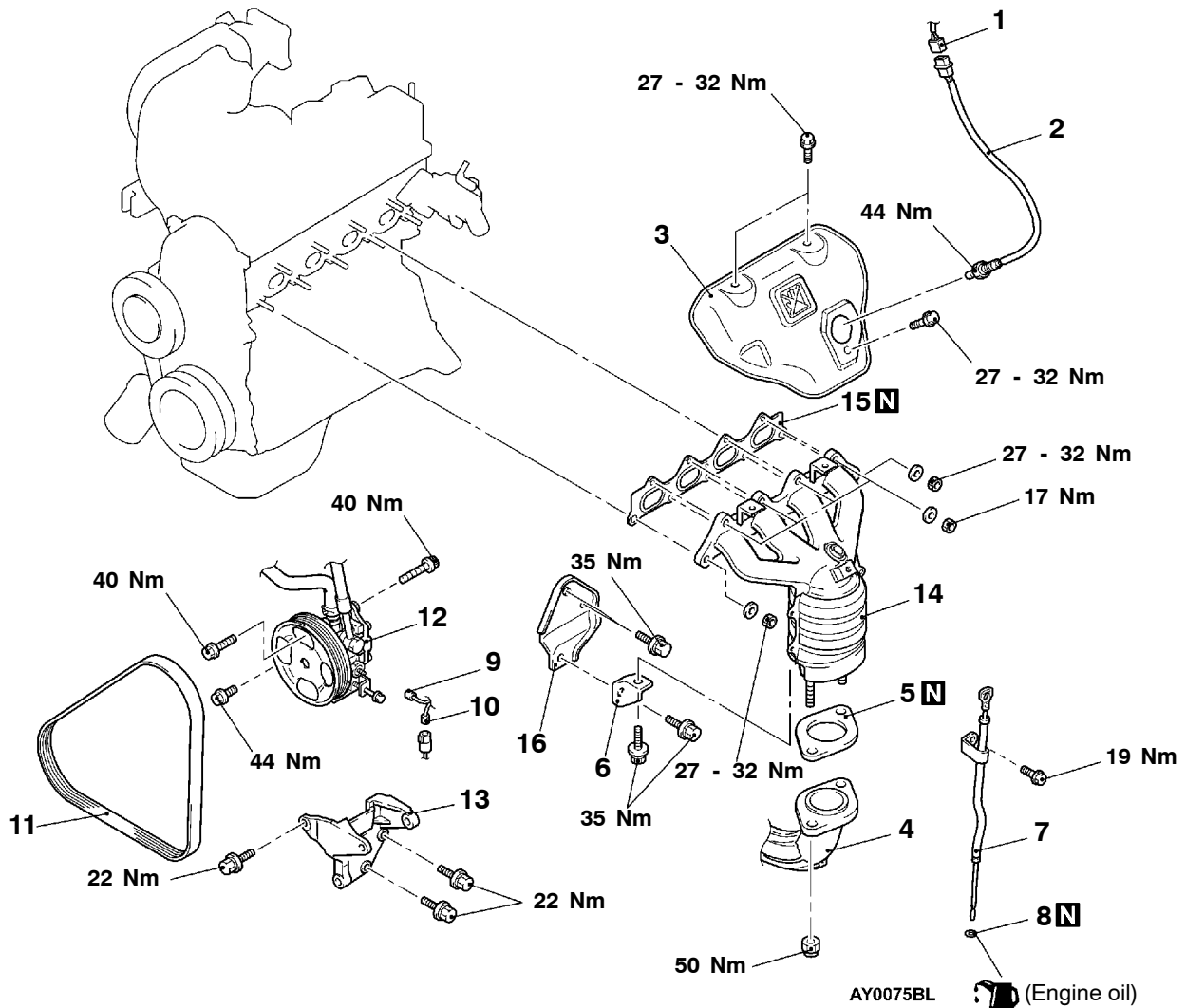
EXHAUST MANIFOLD

REMOVAL AND INSTALLATION

Pre-removal and Post-installation Operation

- Under Cover Removal and Installation
- Drive Belt Tension Adjustment <4G1>
<after installation only>

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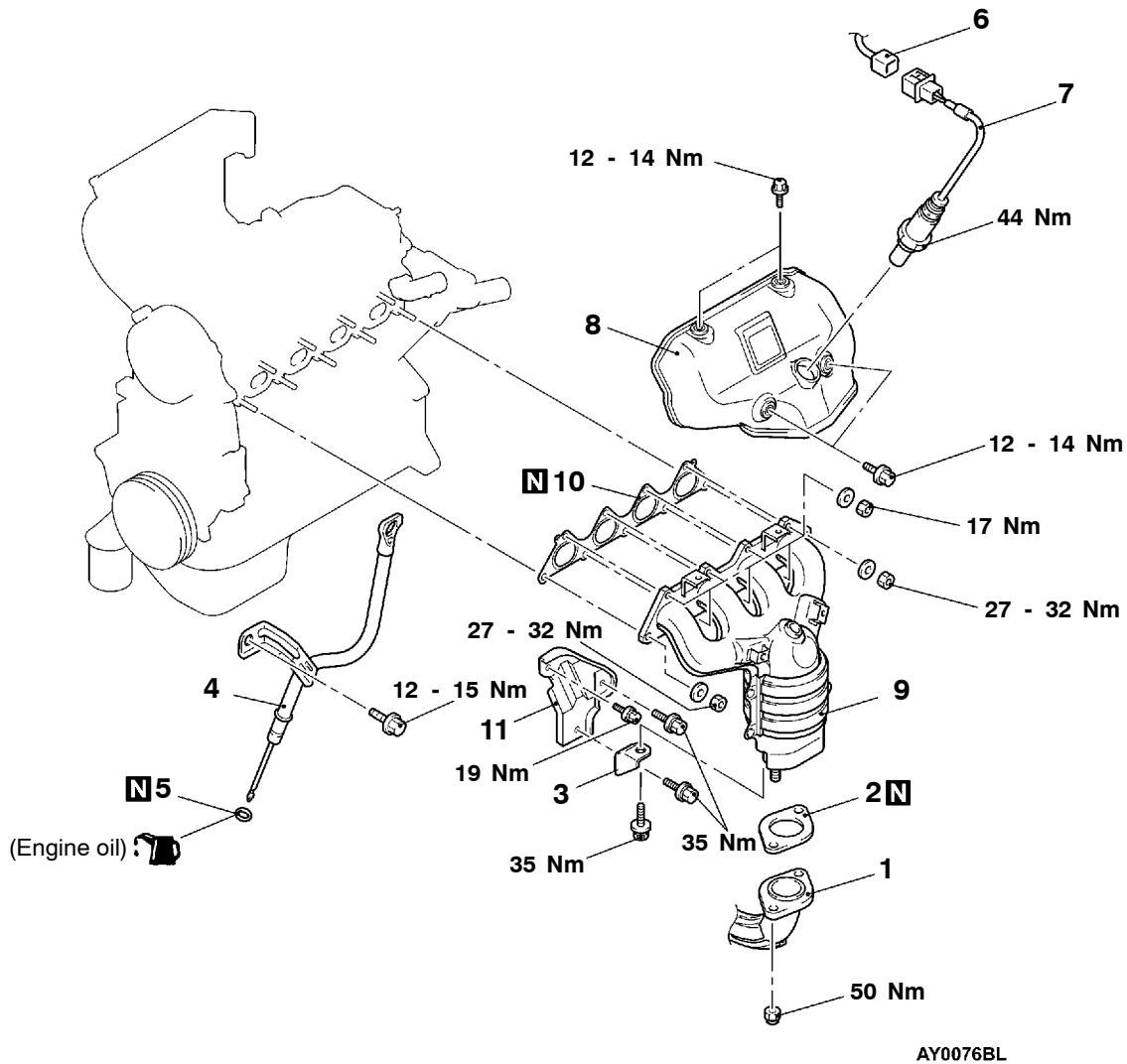


Removal steps



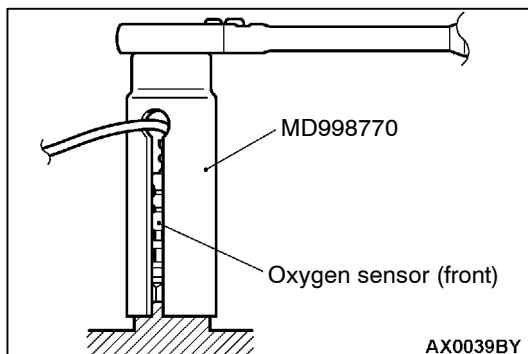
1. Oxygen sensor (front) connector
2. Oxygen sensor (front)
3. Exhaust manifold cover
4. Front exhaust pipe connection
5. Front exhaust pipe gasket
6. Exhaust manifold bracket
7. Engine oil level gauge assembly
8. O-ring
9. Power steering oil pressure switch connector
10. Air conditioner refrigerant temperature switch and magnetic clutch connector
11. Power steering oil pump and air conditioner compressor drive belt
12. Power steering oil pump and brace assembly
13. Power steering oil pump bracket
14. Exhaust manifold
15. Exhaust manifold gasket
16. Exhaust manifold bracket

<4G9>

**Removal steps**

1. Front exhaust pipe connection
2. Front exhaust pipe gasket
3. Exhaust manifold bracket
4. Engine oil level gauge assembly
5. O-ring
6. Oxygen sensor (front) connector

- ◀A▶ ▶A◀ 7. Oxygen sensor (front)
8. Exhaust manifold cover
9. Exhaust manifold
10. Exhaust manifold gasket
11. Exhaust manifold bracket

**REMOVAL SERVICE POINT**

◀A▶ OXYGEN SENSOR (FRONT) REMOVAL

INSTALLATION SERVICE POINT

▶A◀ OXYGEN SENSOR (FRONT) INSTALLATION