

EXHAUST SYSTEM

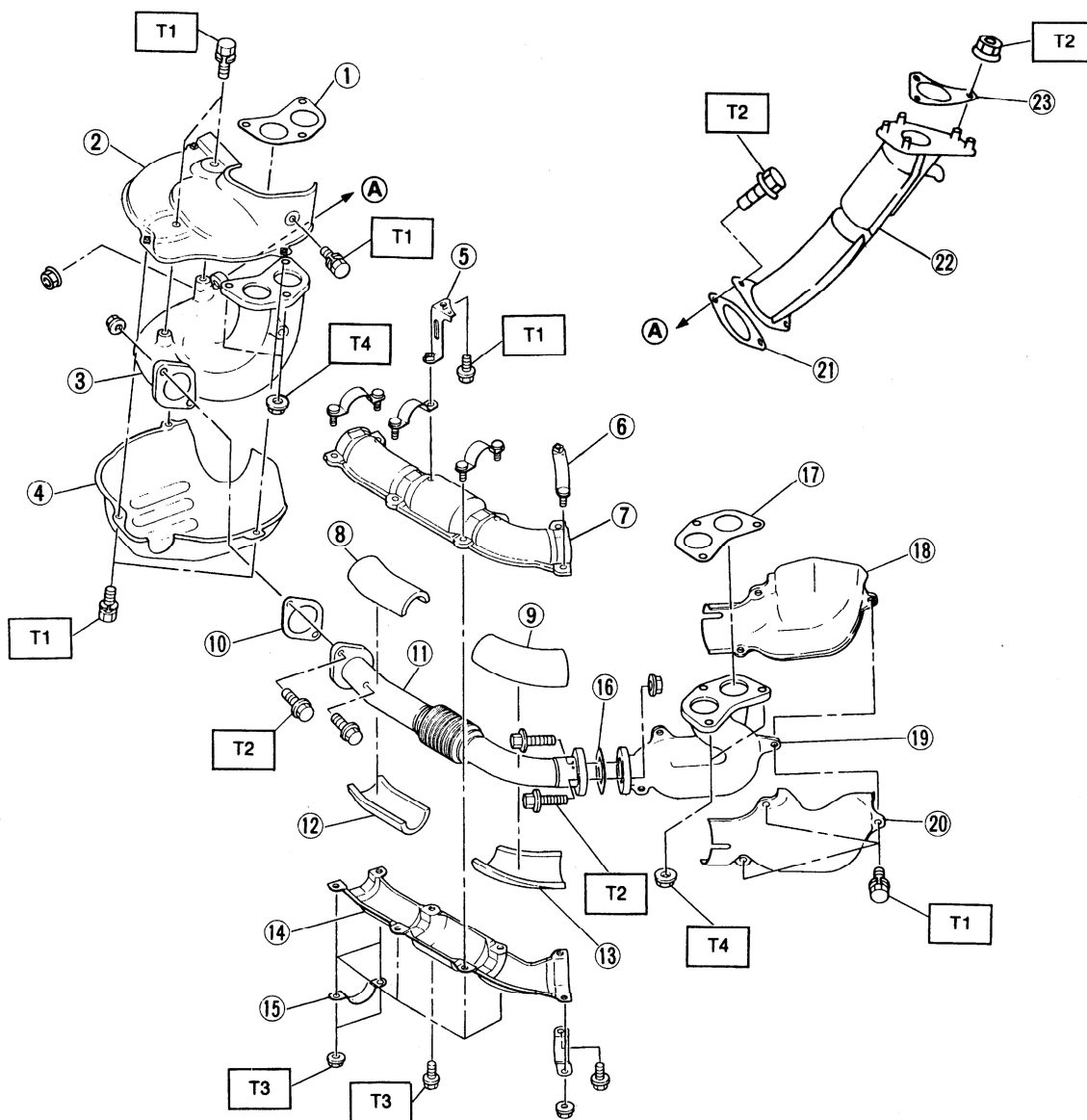
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- The descriptions in this section apply to the turbo model.

2. Exhaust System (Turbo model)

1. FRONT EXHAUST PIPE



G2M0850

- ① Gasket
- ② Upper exhaust manifold cover (RH)
- ③ Exhaust manifold (RH)
- ④ Lower exhaust manifold cover (RH)
- ⑤ Bracket
- ⑥ Upper clamp B
- ⑦ Upper cover C
- ⑧ Upper insulator B
- ⑨ Upper insulator A
- ⑩ Gasket
- ⑪ Front joint pipe
- ⑫ Lower insulator B
- ⑬ Lower insulator A
- ⑭ Lower cover C
- ⑮ Lower clamp B

- ⑯ Gasket
- ⑰ Gasket
- ⑱ Upper exhaust manifold cover (LH)
- ⑲ Exhaust manifold (LH)
- ⑳ Lower exhaust manifold cover (LH)
- ㉑ Gasket
- ㉒ Turbocharger joint pipe
- ㉓ Gasket

Tightening torque: N·m (kg-m, ft-lb)

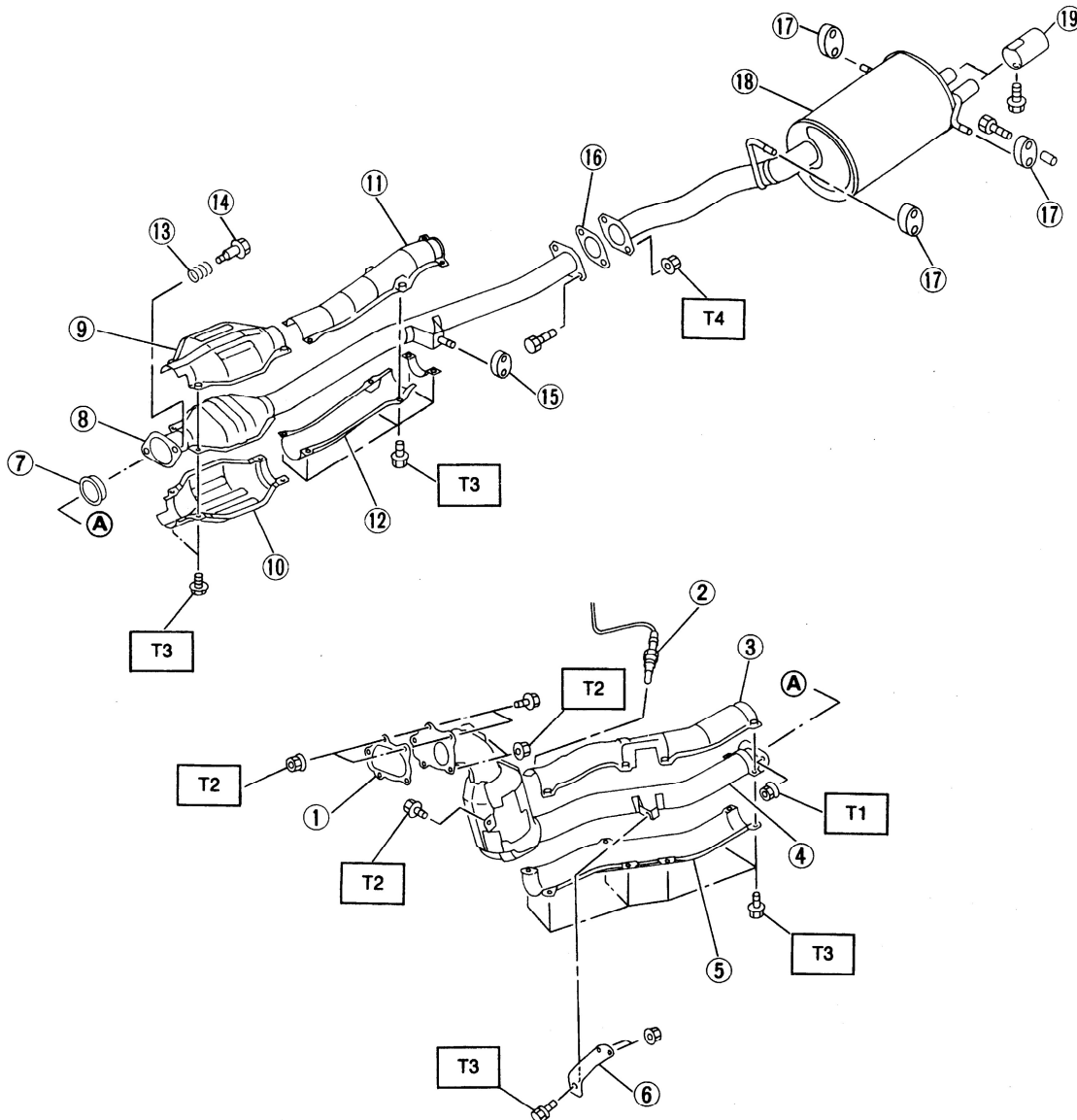
T1: 17 — 20 (1.7 — 2.0, 12 — 14)

T2: 25 — 35 (2.6 — 3.6, 19 — 26)

T3: 30 — 40 (3.1 — 4.1, 22 — 30)

T4: 34 — 44 (3.5 — 4.5, 25 — 33)

2. CENTER AND REAR EXHAUST PIPE, AND MUFFLER



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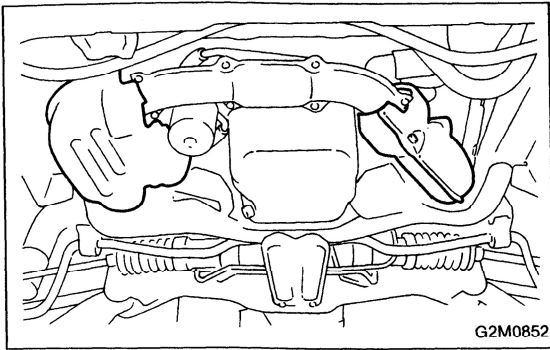
- ① Gasket
- ② Oxygen sensor
- ③ Upper center pipe cover
- ④ Center exhaust pipe
- ⑤ Lower center pipe cover
- ⑥ Bracket (MT)
- ⑦ Gasket
- ⑧ Rear exhaust pipe
- ⑨ Upper cover
- ⑩ Lower cover
- ⑪ Upper cover A
- ⑫ Lower cover A
- ⑬ Spring

- ⑭ Bolt
- ⑮ Cushion
- ⑯ Gasket
- ⑰ Cushion
- ⑱ Muffler
- ⑲ Muffler cutter

Tightening torque: N·m (kg-m, ft-lb)

- T1: 13 — 23 (1.3 — 2.3, 9 — 17)
- T2: 25 — 35 (2.6 — 3.6, 19 — 26)
- T3: 30 — 40 (3.1 — 4.1, 22 — 30)
- T4: 43 — 53 (4.4 — 5.4, 32 — 39)

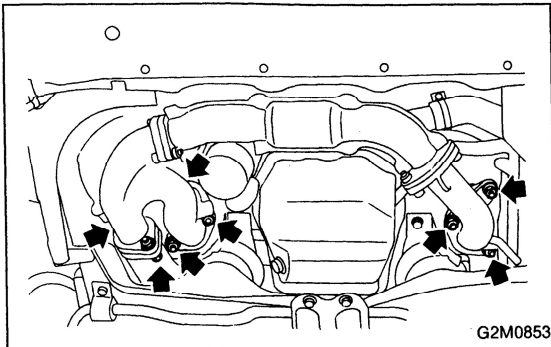
4. Front Exhaust Pipe (Turbo model)



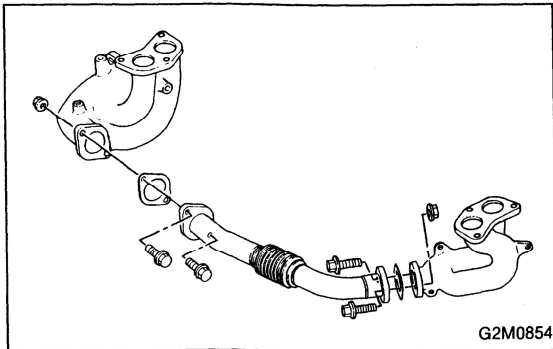
4. Front Exhaust Pipe (Turbo model)

A: REMOVAL

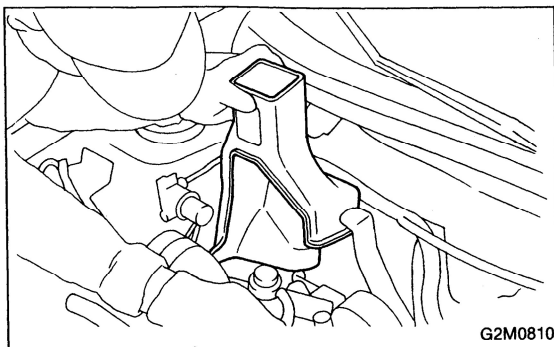
- 1) Remove lower exhaust manifold cover (RH).
- 2) Remove lower and upper exhaust manifold covers (LH).



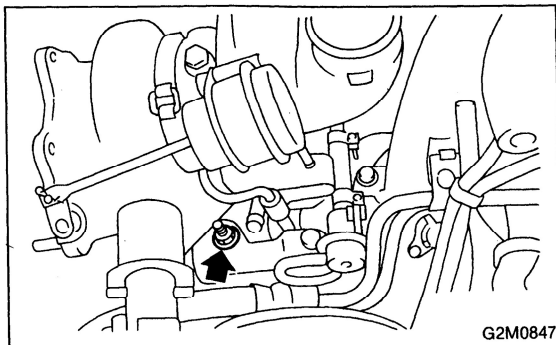
- 3) Remove bolts and nuts which hold front exhaust pipe assembly to turbocharger joint pipe.
- 4) While holding front exhaust pipe assembly with one hand, remove nuts which hold front exhaust pipe assembly to cylinder head exhaust port.
- 5) Remove front exhaust pipe assembly.



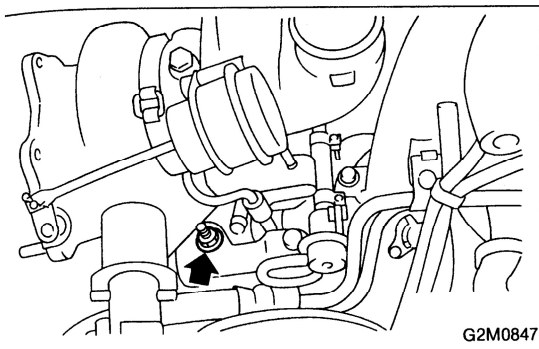
- 6) Remove covers from exhaust manifold and front exhaust pipe.
- 7) Separate front exhaust pipe from exhaust manifolds.



- 8) Remove turbocharger cooling duct.



- 9) Remove turbocharger joint pipe.



B: INSTALLATION

CAUTION:

Replace gaskets with new ones.

- 1) Install turbocharger joint pipe.

Tightening torque:

25 — 35 N·m (2.6 — 3.6 kg-m, 19 — 26 ft-lb)

- 2) Install turbocharger cooling duct.

Tightening torque:

5.4 — 9.3 N·m (0.55 — 0.95 kg-m, 4.0 — 6.9 ft-lb)

- 3) Assemble front exhaust pipe and exhaust manifolds.

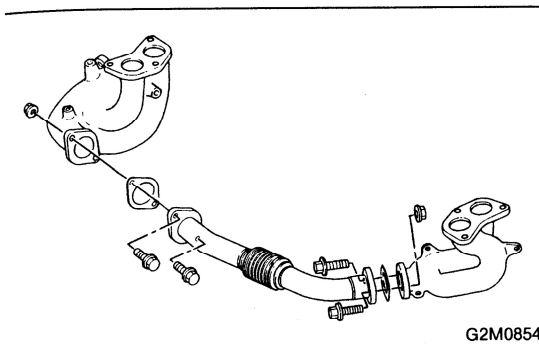
Tightening torque:

25 — 35 N·m (2.6 — 3.6 kg-m, 19 — 26 ft-lb)

- 4) Install front exhaust pipe covers.

Tightening torque:

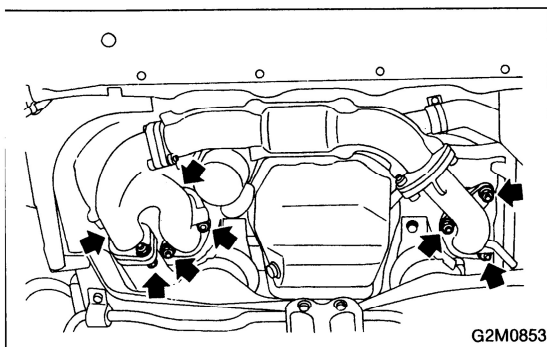
30 — 40 N·m (3.1 — 4.1 kg-m, 22 — 30 ft-lb)



- 5) Install upper exhaust manifold cover (RH).

Tightening torque:

17 — 20 N·m (1.7 — 2.0 kg-m, 12 — 14 ft-lb)



- 6) Install front exhaust pipe assembly.

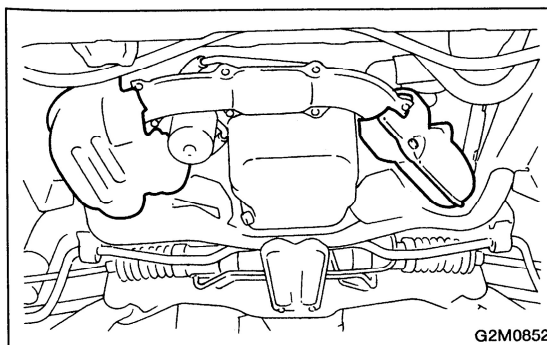
Tightening torque:

34 — 44 N·m (3.5 — 4.5 kg-m, 25 — 33 ft-lb)

- 7) Connect exhaust manifold (RH) to turbocharger joint pipe.

Tightening torque:

25 — 35 N·m (2.6 — 3.6 kg-m, 19 — 26 ft-lb)



- 8) Install upper and lower exhaust manifold covers (LH).

Tightening torque:

17 — 20 N·m (1.7 — 2.0 kg-m, 12 — 14 ft-lb)

- 9) Install lower exhaust manifold cover (RH).

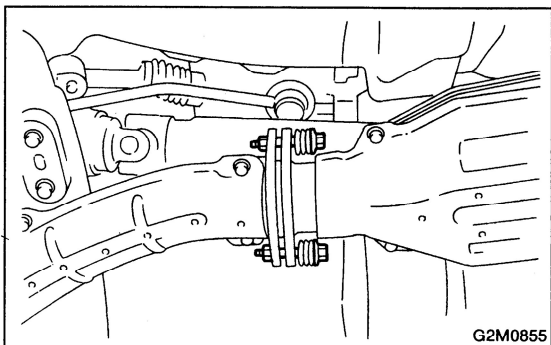
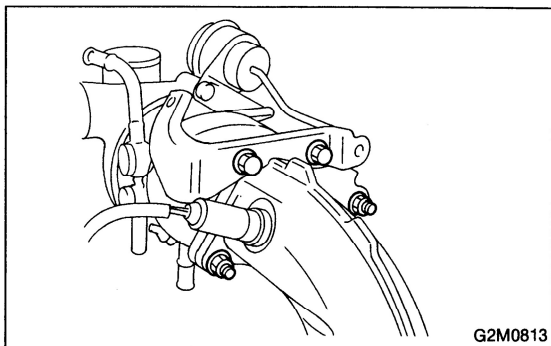
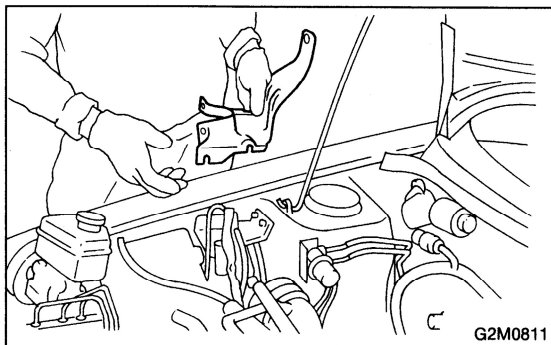
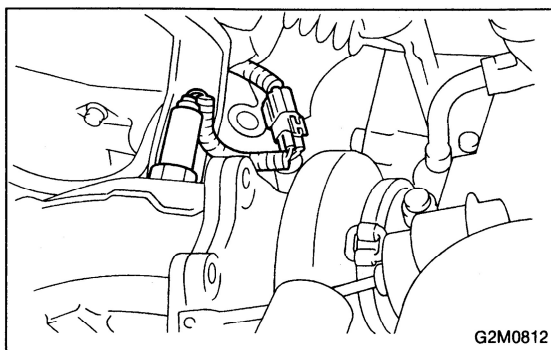
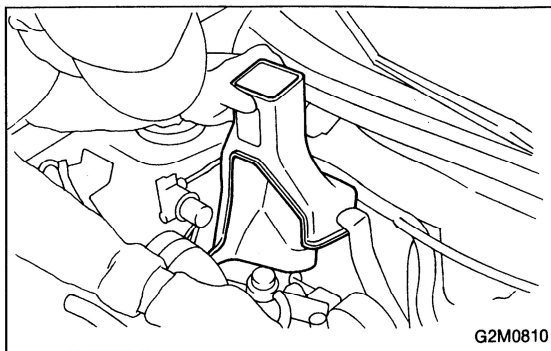
Tightening torque:

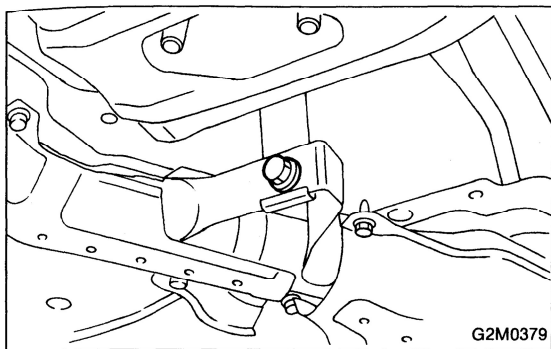
17 — 20 N·m (1.7 — 2.0 kg-m, 12 — 14 ft-lb)

5. Center Exhaust Pipe (Turbo model)

5. Center Exhaust Pipe (Turbo model)**A: REMOVAL**

- 1) Remove turbocharger cooling duct.
- 2) Disconnect connector from oxygen sensor.
- 3) Remove turbocharger lower cover.
- 4) Separate center exhaust pipe from turbocharger.
- 5) Separate center exhaust pipe from rear exhaust pipe.

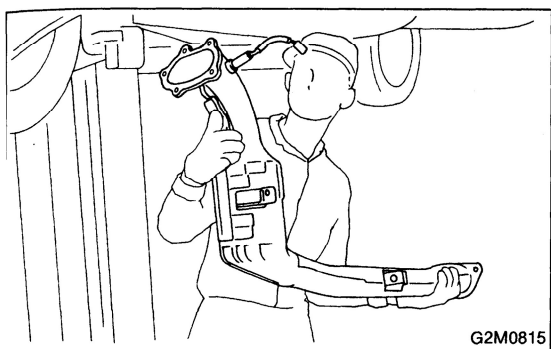




- 6) Remove intercooler bracket.
- 7) Remove bolt which holds center exhaust pipe to hanger bracket.

CAUTION:

Be careful not to pull down center exhaust pipe.



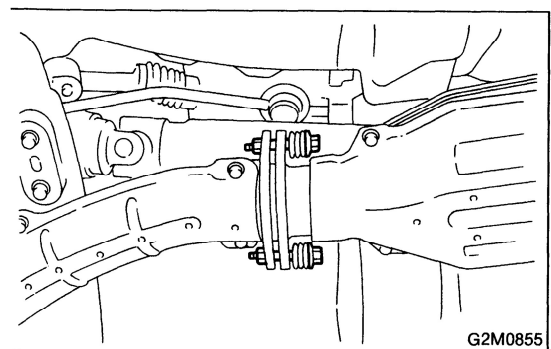
- 8) Remove center exhaust pipe.

B: INSTALLATION

CAUTION:

Replace gaskets with new ones.

- 1) Install center exhaust pipe and temporarily tighten bolt which holds center exhaust pipe to hanger bracket.

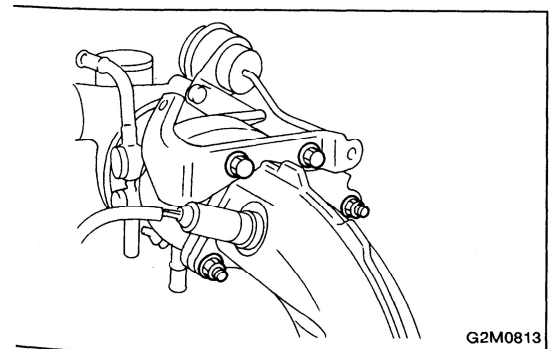


- 2) Install center exhaust pipe to rear exhaust pipe.

Tightening torque:

13 — 23 N·m (1.3 — 2.3 kg-m, 9 — 17 ft-lb)

- 3) Install intercooler bracket and loosely tighten bolts.

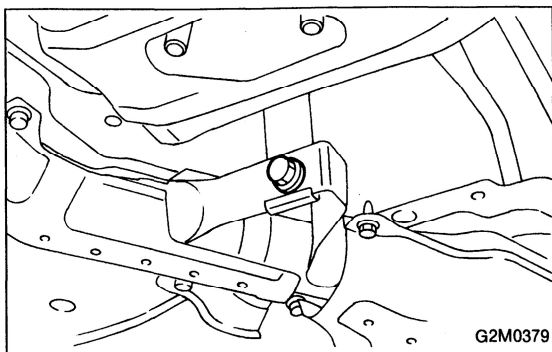


- 4) Connect center exhaust pipe to turbocharger.

Tightening torque:

25 — 35 N·m (2.6 — 3.6 kg-m, 19 — 26 ft-lb)

5. Center Exhaust Pipe (Turbo model)



- 5) Tighten bolt which holds center exhaust pipe to hanger bracket.

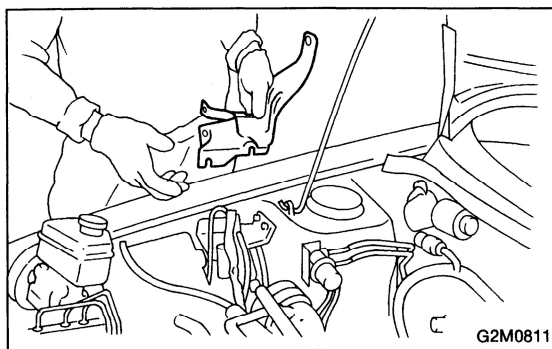
Tightening torque:

30 — 40 N·m (3.1 — 4.1 kg-m, 22 — 30 ft-lb)

- 6) Tighten bolts which hold intercooler bracket.

Tightening torque:

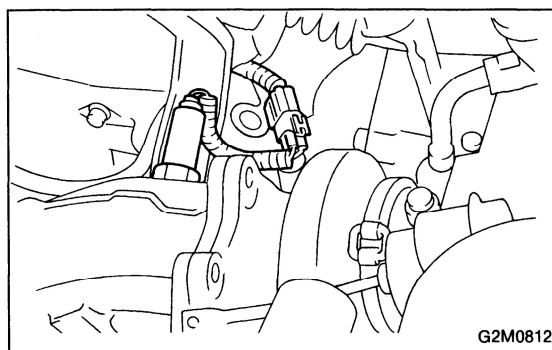
30 — 40 N·m (3.1 — 4.1 kg-m, 22 — 30 ft-lb)



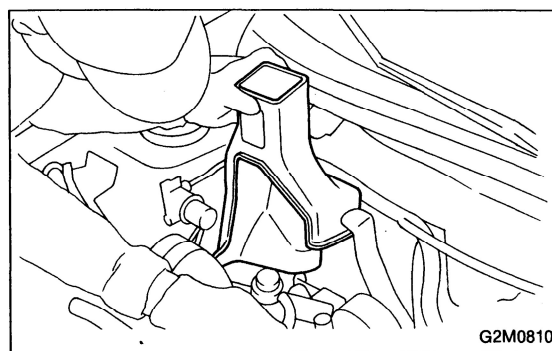
- 7) Install turbocharger lower cover.

Tightening torque:

5.4 — 9.3 N·m (0.55 — 0.95 kg-m, 4.0 — 6.9 ft-lb)



- 8) Connect connector to oxygen sensor.



- 9) Install turbocharger cooling duct.

Tightening torque:

5.4 — 9.3 N·m (0.55 — 0.95 kg-m, 4.0 — 6.9 ft-lb)