Legend
(1) Exhaust Manifold
(2) Gasket
(3) Turbocharger Assembly
(4) Water Hose
(5) Water Hose
(6) Heat Protector
(7) Oil Pipe
(8) Oil Pipe
(9) Gasket

REMOVAL
1. Remove the hose from both turbocharger outlet and intake manifold inlet side, then remove intercooler assembly.
2. Loosen belt tensioner, remove A/C compressor assembly.
3. Remove heat protector from turbocharger.
4. Remove water hoses and oil pipes from turbocharger.
5. Remove turbocharger assembly from exhaust manifold.
6. Remove exhaust manifold fixing nuts, then remove exhaust manifold.
RINSTALLATION

1. Install gasket on the exhaust manifold and tighten to the specified torque.
   Torque : 30 N·m (3.1 kg·m/22 lb ft)
2. Install turbocharger on the exhaust manifold.
   Torque : 27 N·m (2.8 kg·m/20.2 lb ft)
3. Install water hoses and oil pipes.
4. Install heat protector to turbocharger.
   Torque : 9 N·m (0.9 kg·m/6.5 lb ft)
5. Install A/C compressor assembly and readjust belt tensioner.
6. Install the intercooler assembly in the normal position.
   Connect both hoses to turbocharger and intake manifold.
Legend
(1) Exhaust Manifold  (5) Water Hose
(2) Gasket  (6) Heat Protector
(3) Turbocharger Assembly  (7) Oil Pipe
(4) Water Hose  (8) Oil Pipe
(9) Gasket
REMOVAL

1. Remove battery.
2. Drain engine coolant.
3. Remove air cleaner cover with air duct.
4. Remove intercooler assembly.
   Refer to “Intercooler” in this manual.
5. Remove water pipe for turbocharger inlet.
6. Remove oil pipe for turbocharger.
   1) Remove eye bolt from turbocharger.
   2) Plug oil port on the turbocharger to prevent entry of foreign materials.
7. Remove oil drain pipe from turbocharger.
8. Remove water outlet pipe.
9. Remove heat protector.
10. Remove exhaust adaptor.
11. Remove turbocharger assembly from exhaust manifold.
INSTALLATION

1. Install turbocharger assembly to exhaust manifold, tighten to the specified torque.
   Torque : 27 N·m (2.8 kg·m/20.2 lb ft)

2. Install exhaust adaptor.
   Torque : 27 N·m (2.8 kg·m/20.2 lb ft)

3. Install heat protector.

4. Install water outlet pipe with gasket.
   Torque : 9 N·m (0.9 kg·m/6.5 lb ft)

5. Install turbocharger oil drain pipe.
   Torque : 9 N·m (0.9 kg·m/6.5 lb ft)

6. Install oil supply pipe to turbocharger.
   1) Fill with 100 cc engine oil at the turbocharger oil supply hole before installing the oil pipe.
   2) Turn the turbocharger by hand to lubricate turbocharger shaft.
   3) Install oil supply pipe with new gasket to the turbocharger and tighten oil supply pipe bolts to the specified torque.
   Torque : 22 N·m (2.2 kg·m/15.9 lb ft) for M10
            54 N·m (5.5 kg·m/39.8 lb ft) for M14

7. Install water inlet pipe with new gasket, tighten to the specified torque.
   Torque : 9 N·m (0.9 kg·m/6.5 lb ft)

8. Install intercooler assembly.

9. Install air cleaner cover with air duct, connect both side hoses.

10. Fill with engine coolant.

11. Install the battery and connect battery cables.