

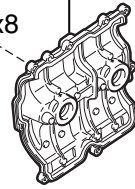
Bank 1:

Injector driver bracket

6.4 {65,4.7}



6.4 {65,4.7}



Cylinder head cover SUB-ASSY

● Cylinder head cover gasket



Transmission A/T:

31 {316,22.9}

x2

x2

● Gasket

6.4 {65,4.7}

Camshaft oil field pipe SUB-ASSY

Intake center camshaft cap RH

Exhaust center camshaft cap RH

Intake rear camshaft cap RH

Exhaust rear camshaft cap RH

Transmission M/T:

25 {255,18.4}

Hole plug

● Gasket

Camshaft housing SUB-ASSY RH

x9

First time: 20 {204,14.8}
 Second time: 100 {1020,73.8}
 Third time: Loosen 360°
 Fourth time: 20 {204,14.8}
 Fifth time: 42 {428,31.0}
 Sixth time: Further-tighten 100°
 Seventh time: Further-tighten 100°
 (Center: 2)
 Further-tighten 50°
 (Except for center)

Cylinder head bolt

18 {184,13.3}

x12

Front camshaft cap RH

Intake camshaft RH

Exhaust camshaft RH

First time: 18 {18.4,13.3}

Second time: Loosen 180°

Third time: 18 {18.4,13.3}

● Oil control valve filter RH

Oil spacer RH

● Spark plug tube gasket

Valve adjusting shim

6.4 {65,4.7}

x8

x8

x8

Valve rocker arm SUB-ASSY No. 1

Roller rocker arm pivot

Cylinder head SUB-ASSY

x2

x2

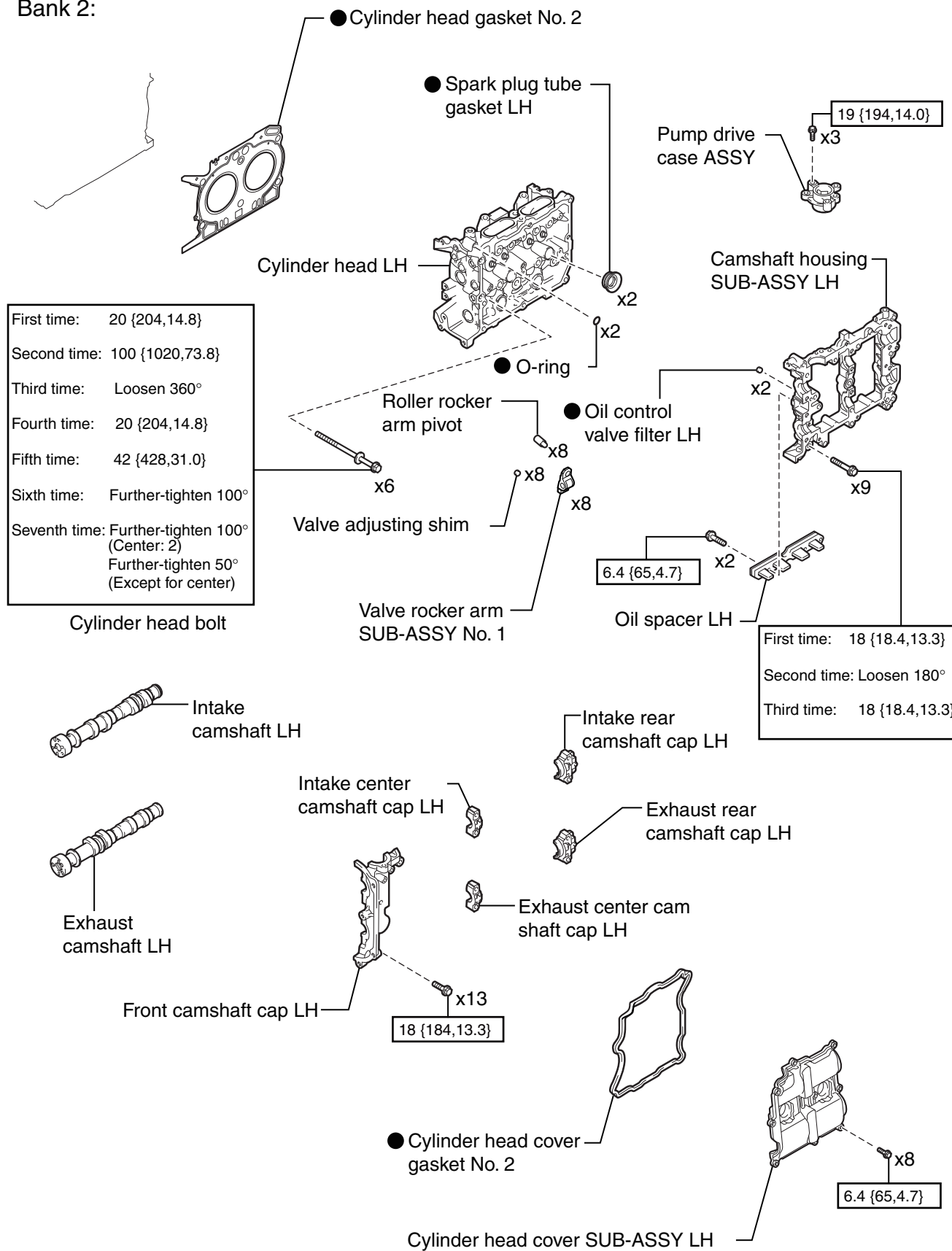
● O-ring

● Cylinder head gasket

N•m {kgf•cm}{ft•lb} : Specified torque

● Non-reusable parts

Bank 2:

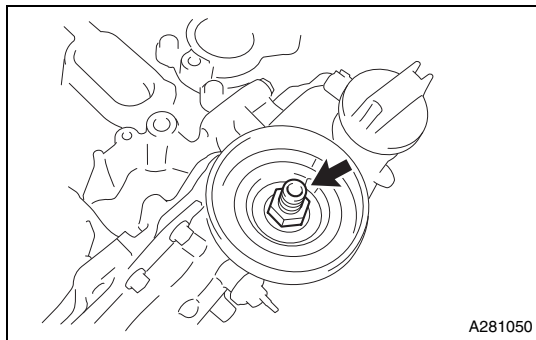


N•m {kgf•cm}{ft•lbf} : Specified torque

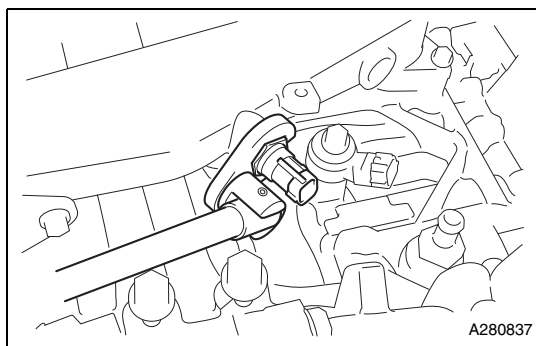
● Non-reusable parts

DISASSEMBLY

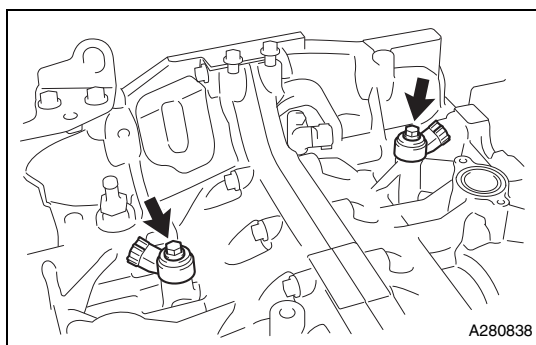
1. Removal of oil filler cap SUB-ASSY
 - (1) Remove the oil filler cap SUB-ASSY.
2. Removal of oil filter SUB-ASSY
 - (1) Using SST, remove the oil filter SUB-ASSY.
SST 18332AA020



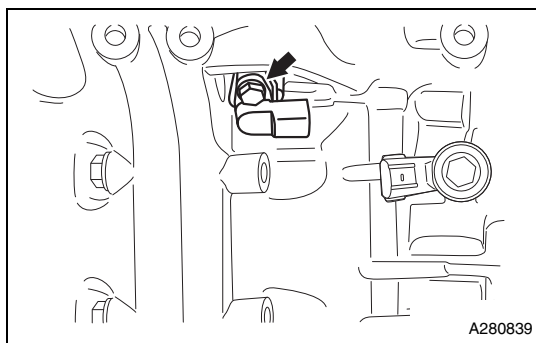
3. Removal of oil filter union
 - (1) Remove the oil filter union.



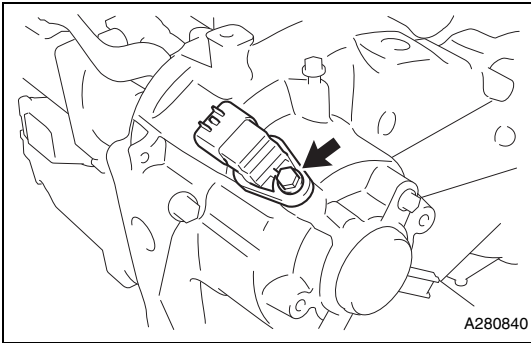
4. Removal of engine water temperature sensor
 - (1) Remove the engine water temperature sensor and gasket.



5. Removal of knock control sensor
 - (1) Remove the two bolts to remove the two knock control sensors.

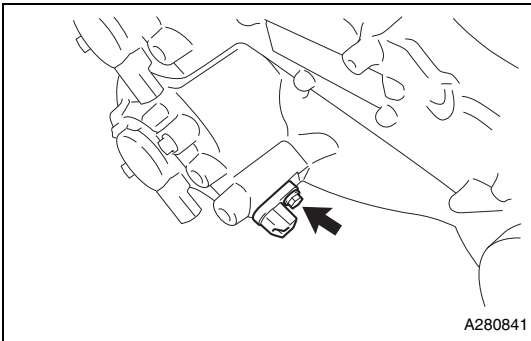


6. Removal of crank position sensor
 - (1) Remove the bolt to remove the crank position sensor.

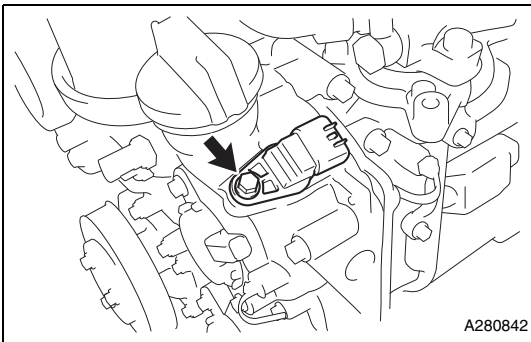


7. Removal of camshaft position sensor

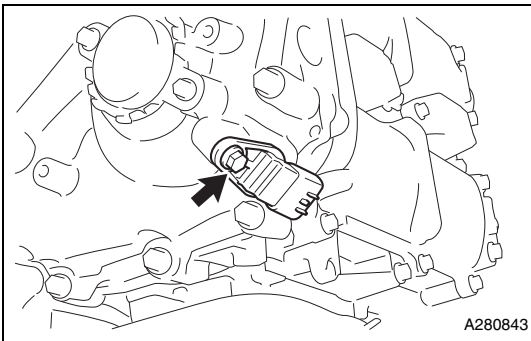
- (1) Remove the bolt to remove the camshaft position sensor (bank 1 intake side).
- (2) Remove the O-ring from the camshaft position sensor.



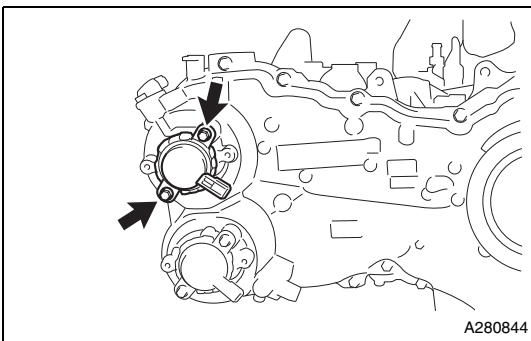
- (3) Remove the bolt to remove the camshaft position sensor (bank 1 exhaust side).
- (4) Remove the O-ring from the camshaft position sensor.



- (5) Remove the bolt to remove the camshaft position sensor (bank 2 intake side).
- (6) Remove the O-ring from the camshaft position sensor.



- (7) Remove the bolt to remove the camshaft position sensor (bank 2 exhaust side).
- (8) Remove the O-ring from the camshaft position sensor.



8. Removal of camshaft timing oil control valve ASSY

- (1) Remove the two bolts to remove the camshaft timing oil control valve ASSY (bank 1 intake side).