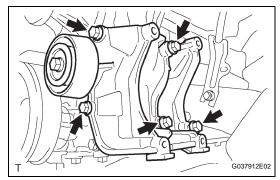
CRANKSHAFT POSITION SENSOR

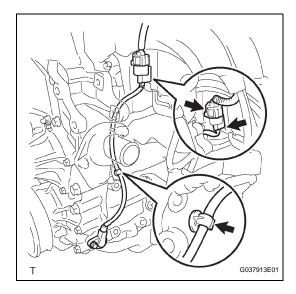
REMOVAL

- 1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL
- 2. REMOVE ENGINE UNDER COVER SUB-ASSEMBLY NO.1 (for 4WD and Pre-Runner)
- 3. REMOVE FAN AND GENERATOR V BELT (W/ AIR CONDITIONING) (See page EM-5)
- 4. SEPARATE COMPRESSOR AND MAGNETIC CLUTCH (W/ AIR CONDITIONING) (See page EM-21)
- 5. REMOVE IDLE PULLEY ASSEMBLY WITH BRACKET (W/ AIR CONDITIONING)
 - (a) Remove the 5 bolts, then remove the idle pulley with bracket.

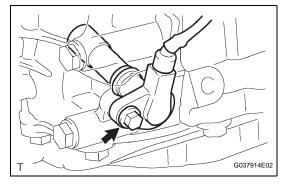


6. REMOVE CRANKSHAFT POSITION SENSOR

(a) Disconnect the crankshaft position sensor connector and the 2 wire harness clamps.

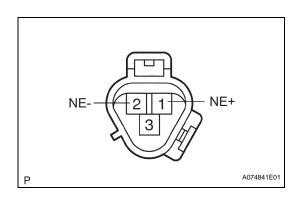


(b) Remove the bolt, then remove the crankshaft position sensor.









INSPECTION

1. INSPECT CRANKSHAFT POSITION SENSOR

- (a) Check the resistance.
 - (1) Using an ohmmeter, measure the resistance between the terminals.

Standard

Tester Connection	Specified Condition
1 (NE+) - 2 (NE-)	1,630 to 2,740 Ω at COLD
1 (NE+) - 2 (NE-)	2,065 to 3,225 Ω at HOT

HINT:

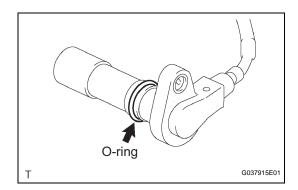
Cold and Hot mean the temperature of the coils themselves. Cold is from -10 to 50°C (14 to 122°F) and Hot is from 50 to 100°C (122 to 212°F).

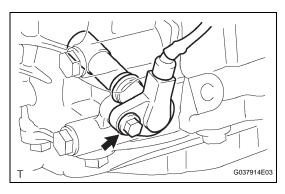
If the result is not as specified, replace the camshaft position sensor.



I. INSTALL CRANKSHAFT POSITION SENSOR

(a) Apply a light coat of engine oil to the O-ring of the crankshaft position sensor.



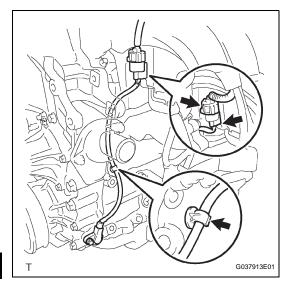


(b) Install the camshaft position sensor with the bolt.

Torque: 8.5 N*m (87 kgf*cm, 75 in.*lbf)

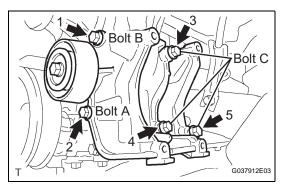
NOTICE:

Make sure that the O-ring is not cracked or jammed when installing.



(c) Connect the crankshaft position sensor connector and the 2 wire harness clamps.





2. INSTALL IDLE PULLEY ASSEMBLY WITH BRACKET (W/ AIR CONDITIONING)

(a) Using several steps, uniformly install and tighten the 5 bolts in the sequence shown in the illustration.

Torque: 21 N*m (214 kgf*cm, 16 ft.*lbf) for bolt A 43 N*m (438 kgf*cm, 32 ft.*lbf) for bolt B, C

- 3. INSTALL COMPRESSOR AND MAGNETIC CLUTCH (W/ AIR CONDITIONING) (See page EM-34)
- 4. INSTALL FAN AND GENERATOR V BELT (W/ AIR CONDITIONING) (See page EM-6)
- 5. INSTALL ENGINE UNDER COVER SUB-ASSEMBLY NO.1 (for 4WD and Pre-Runner)
- 6. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

Torque: 3.9 N*m (40 kgf*cm, 35 in.*lbf)