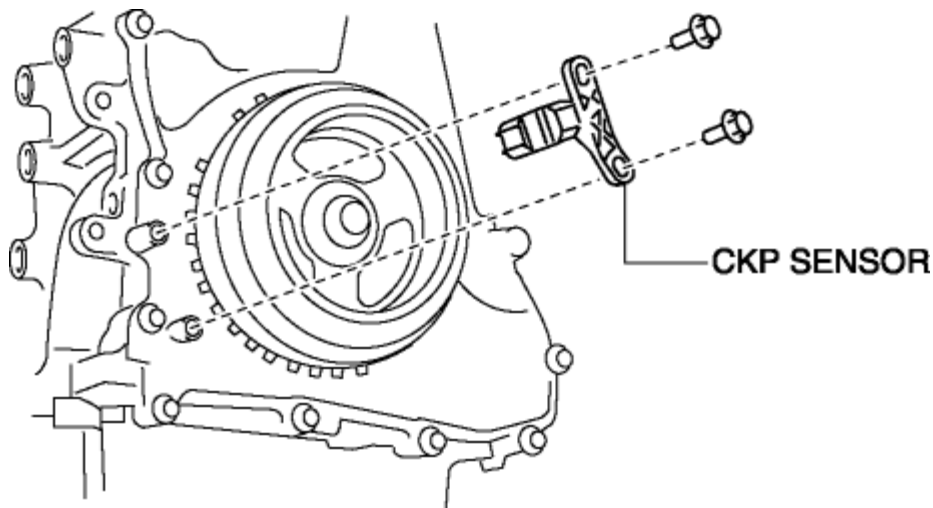


2012 - Mazda6 - Engine

CRANKSHAFT POSITION (CKP) SENSOR REMOVAL/ INSTALLATION [MZR 2.5]

Removal

1. Disconnect the negative battery cable. (See [BATTERY REMOVAL/ INSTALLATION \[MZR 2.5\]](#).)
2. Perform the following procedure for easier access.
 - a. Remove the aerodynamic under cover No.2. (See [AERODYNAMIC UNDER COVER NO.2 REMOVAL/ INSTALLATION](#).)
 - b. Remove the splash shield. (See [SPLASH SHIELD REMOVAL/ INSTALLATION](#).)
3. Disconnect the CKP sensor connector.
4. Remove the CKP sensor.

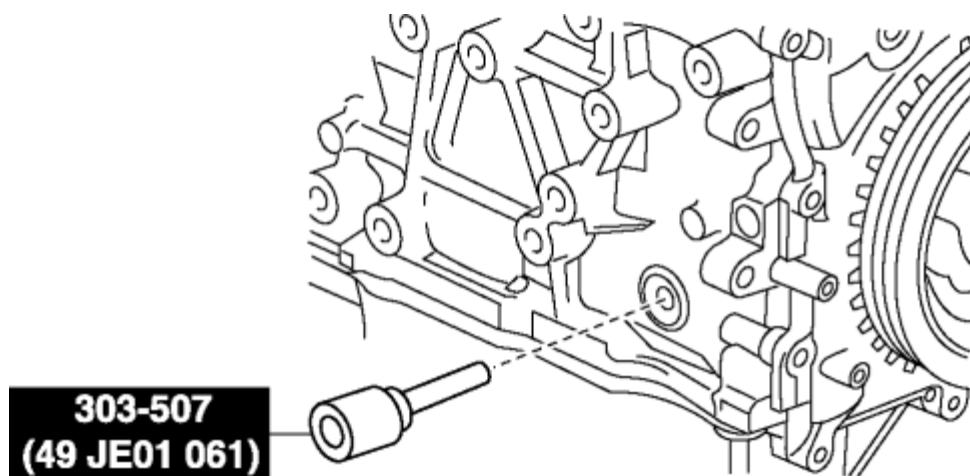


Installation

CAUTION:

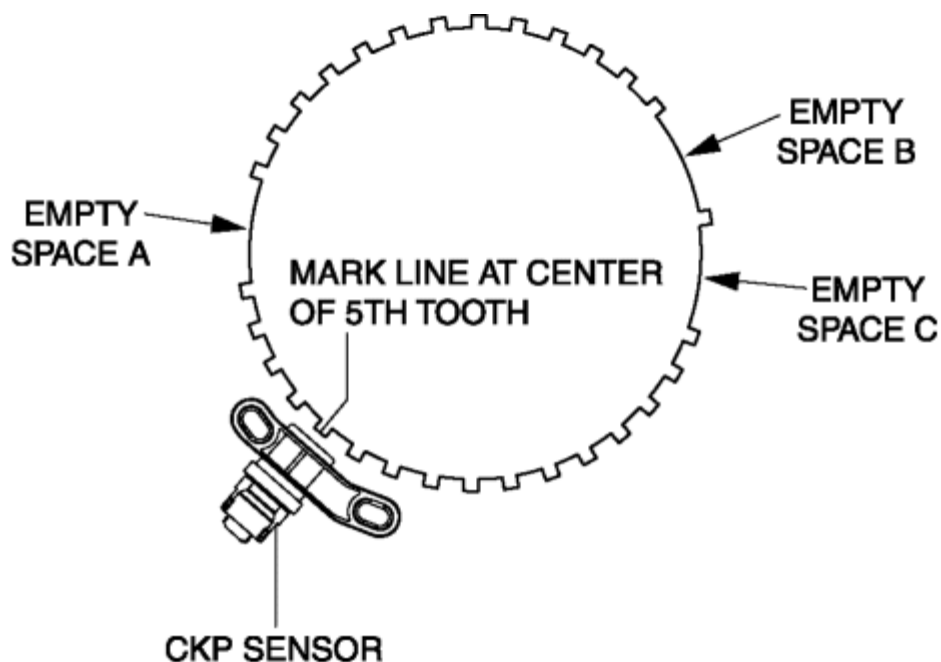
- When foreign material such as an iron chip is on the CKP sensor, it can cause abnormal output from the sensor because of flux turbulence and adversely affect the engine control. Be sure there is no foreign material on the CKP sensor when replacing.
 - Do not assemble the crankshaft position sensor or change the installation position using any method other than the following. Otherwise, it could negatively affect engine controls, such as the ignition timing and fuel injection.
1. Perform the following procedure so that cylinder No.1 is at TDC.
 - a. Remove the wheel and tire (front right side).

- b. Disconnect the drive shaft (RH) from joint shaft, set the drive shaft (RH) out of the way. (ATX) (See [DRIVE SHAFT REMOVAL/ INSTALLATION](#).)
- c. Remove the cylinder block lower blind plug and install the **SST**.

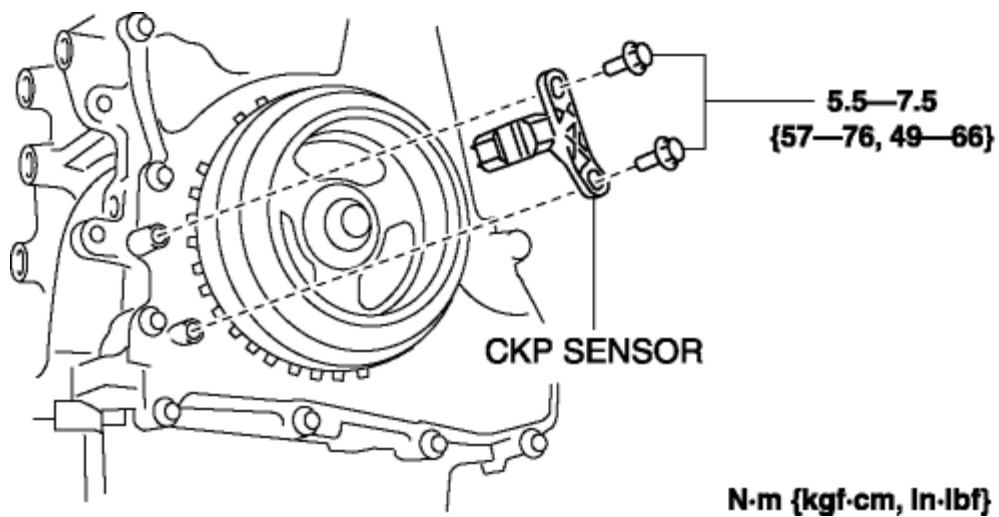


- d. Rotate the crankshaft pulley clockwise until the crank weight contacts the **SST** so that cylinder No.1 is at TDC.

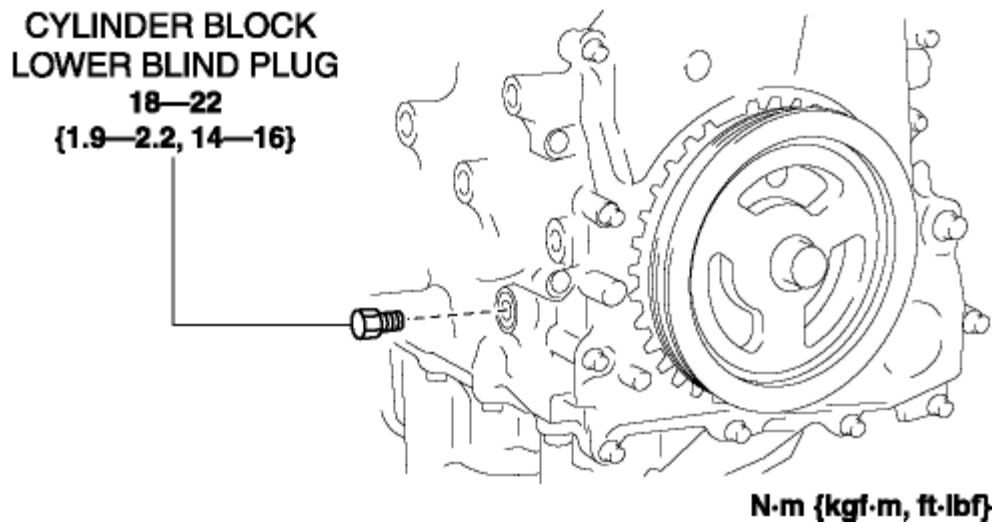
2. Fit the center of the CKP sensor with the fifth tooth (counting counterclockwise from the empty space A as shown in the figure) of the pulse wheel.



3. Align the center line of the CKP sensor and the line drawn in Step 2, then install the sensor.
4. Install the CKP sensor fitting bolts.



5. Remove the **SST** then install the cylinder block lower blind plug.



6. Install the drive shaft (RH). (ATX) (See [DRIVE SHAFT REMOVAL/ INSTALLATION.](#))

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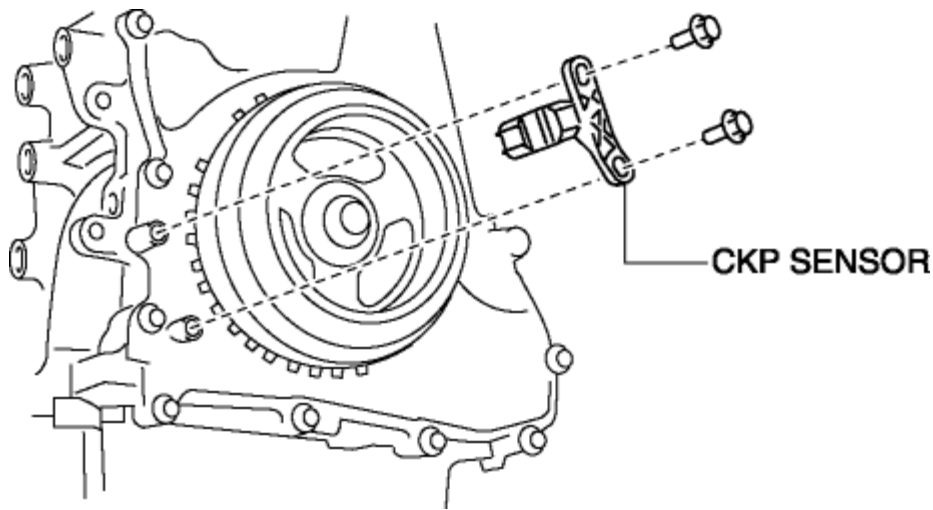
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2012 - Mazda6 - Engine

CRANKSHAFT POSITION (CKP) SENSOR REMOVAL/ INSTALLATION [MZR 2.5]

Removal

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4. Remove the CKP sensor.

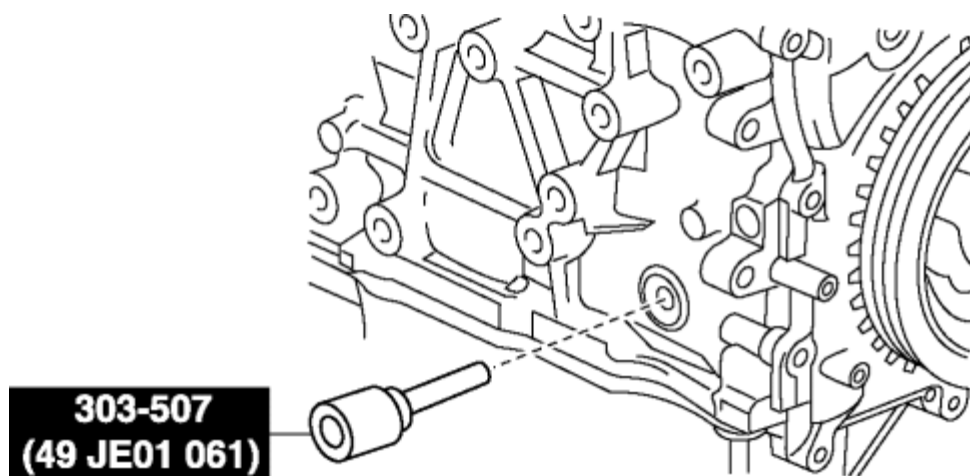


Installation

CAUTION:

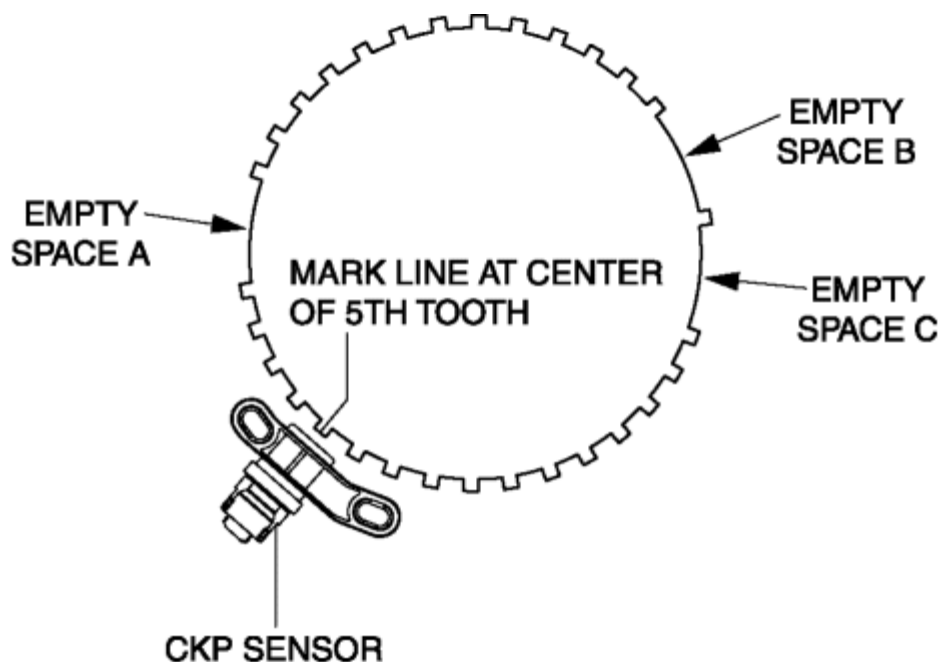
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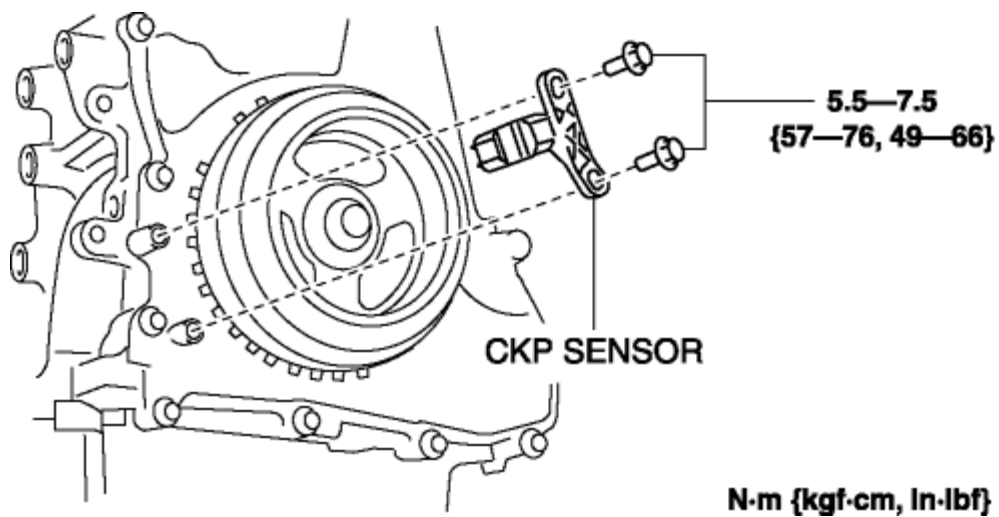


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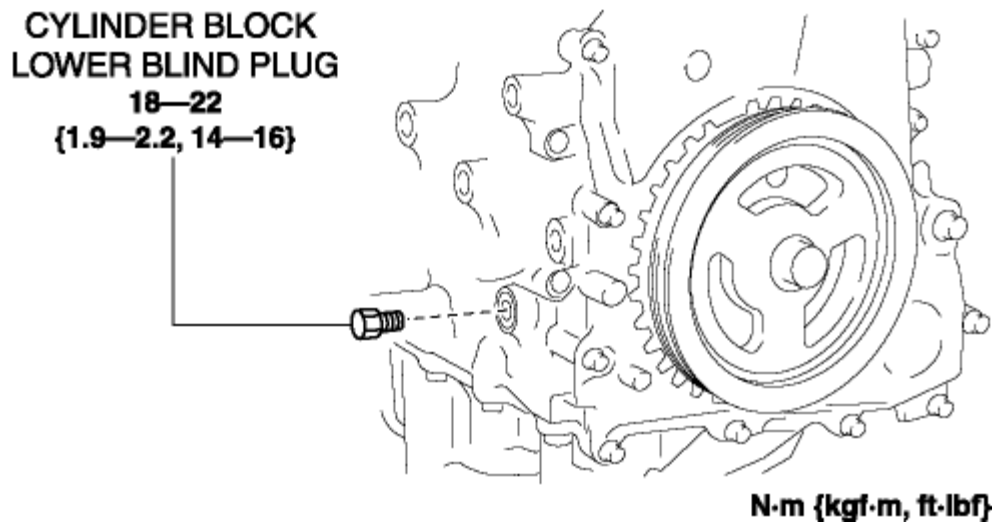
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6. Install the drive shaft (RH). (ATX) (See [DRIVE SHAFT REMOVAL/ INSTALLATION.](#))

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