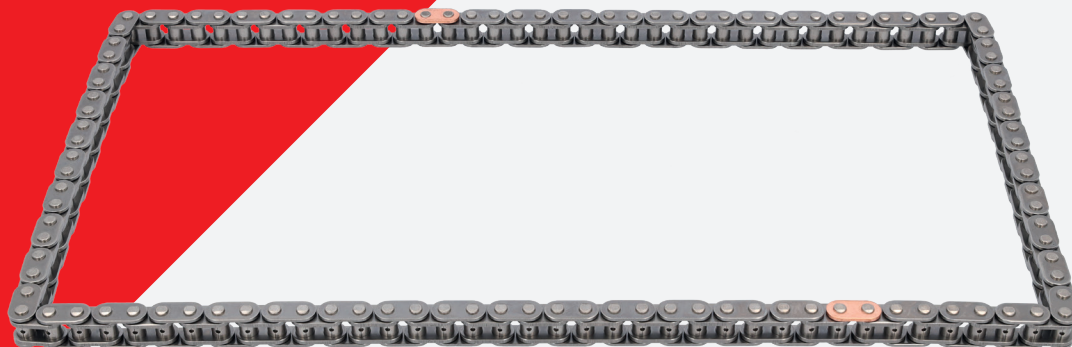


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**To fit:**

Mazda 3 (BL) 08-14, 6 (GH) 07-13 and
CX-7 (ER) 06-14 equipped with the 2.2
CiTD diesel engine



EN

Timing Chain Kit

Problem

Diesel Particulate Filter indicator warning lamp illuminated and flashing.
Diagnostic Trouble Code P1336 - Crankshaft/Camshaft Sensor Range/Performance stored in the Powertrain Control module (PCM).
Increased engine noise and rattling from the timing chain area.

Cause

When the phase difference of output signal between the crankshaft and camshaft position sensors exceeds the predetermined threshold on two drive cycles in sequence, the PCM will determine that the timing chain has become extended, storing the fault code P1336 as a result.

Solutions

If any diagnostic trouble codes other than P1336 are stored in the PCM, perform diagnosis and complete the necessary repairs; clearing all codes once completed.

If the only fault code stored in the PCM is P1336, complete the following procedure:

- Replace the timing chain according to the workshop manual.
- Start the engine and check the parameters are in range as shown below before continuing.
 - Engine coolant temperature: 65 - 95 °C {149 - 203 °F}
 - Intake air temperature: 15 - 65 °C {59 - 149 °F}
 - Fuel temperature: 30 - 60 °C {86 - 140 °F}

Ensuring these parameters remain consistent, perform the following steps:

- Execute fuel injector injection amount correction procedure using a suitable diagnostic tool.
- To memorise the initial value of the new timing chain Crankshaft/Camshaft Sensor relative position, carry out the following process:

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Attention! This initialisation procedure must not be performed on vehicles with a used timing chain. Failure to follow this instruction may result in engine damage.

Start the engine and let it idle.

Short the connection between the terminals of the check connectors terminal using a jumper wire as per diagrams below for each model.

Depress and release the brake and clutch pedals fully at the same time.

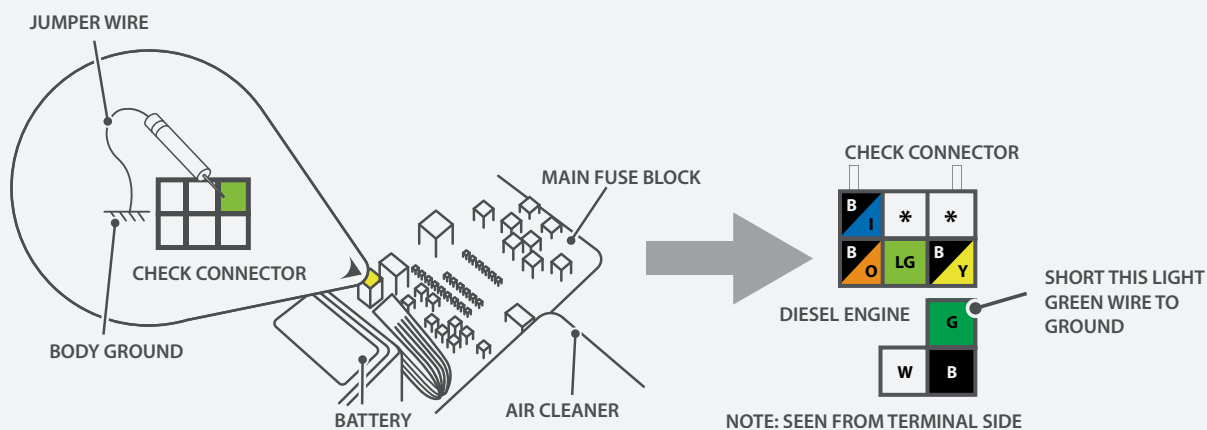
Repeat this five times within five seconds.

Glow indicator light illuminates during initialisation.

Glow indicator light flashes five times when initialisation is completed.

Clear all fault codes and start the engine - ensuring no warning indicator lamps are illuminated - to verify the repair.

Mazda 6 (GH)



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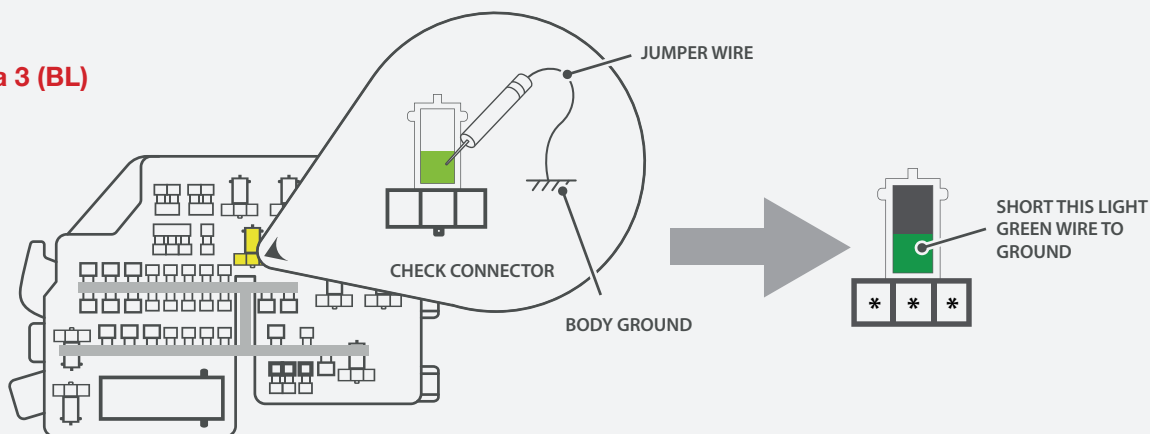


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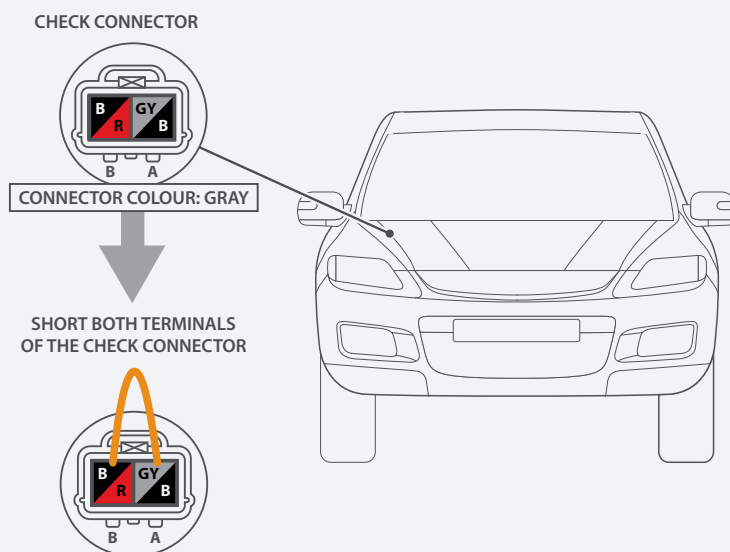
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Mazda 3 (BL)



Mazda CX-7 (ER)



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