SERVICE BULLETIN

MITSUBISHI MOTORS

GLOBAL AFTER SALES OFFICE, MITSUBISHI MOTORS CORPORATION

PURPOSE : CORRECTION	ISSUE NO. : MSB-15EXL13-501	DATE : 2015-05-15
SUBJECT : Correction of the supply pump removal and installation of the vehicle with 4N1 engine		<DESTINATION/MODEL> (EU/RUSSIA/G.EXP/MMAL/NZ/THAILAND) <M/Y> 15-16
GROUP : Gr:13(Fuel)		L200/SPORTERO/TRITON/STRADA/STRADA SPORTERO(KJ0T/KL0T/KK0T)

1. Description :

Please refer to the attached document for the correction of the error in writing existing in the applicable service manual.

2. Affected service manuals :

Destination	Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
THAI	2015 TRITON Workshop Manual	DRAFT	FUEL INJECTION PUMP REMOVAL AND INSTALLATION (M133-00-240-15701-01)	Attached sheet 1
EXP/GCC/ MMAL/NZ	2016 L200/SPORTERO/ TRITON/STRADA/ STRADA SPORTERO Workshop Manual	PWTE1502R(ENG) PWTS1503R(SPA) MMAL:AU900436/ AU900478 NZ:DRAFT	FUEL INJECTION PUMP REMOVAL AND INSTALLATION (M133-00-240-15701-01)	Attached sheet 1
EU	2016 L200 Workshop Manual	CKTE16E1-CD(ENG) CKTF16E1-CD(FRE) CKTG16E1-CD(GER) CKTS16E1-CD(SPA) CKTI16E1-CD(ITA)	FUEL INJECTION PUMP REMOVAL AND INSTALLATION (M133-00-240-17900-01)	Attached sheet 2

3. About the details :

Please refer to the attached document (Attached sheets 1-2)

Attached sheet 1 (1/3)

REMOVAL AND INSTALLATION

M1133002400157

⚠ CAUTION

<Added>

- **To remove and install the supply pump, be careful not to damage the inside diameter of the pump engagement hole on the cylinder block.**
- **When the supply pump is replaced, use the M.U.T.-III to initialise the learning value (Refer to GROUP 00 – Precautions Before Service, Initialisation Procedure for Learning Value in Common Rail Engine).**
- **When the supply pump is replaced, perform the supply pump correction learning (Refer to GROUP 00 – Precautions before Service, What the Common Rail Engine Learns).**

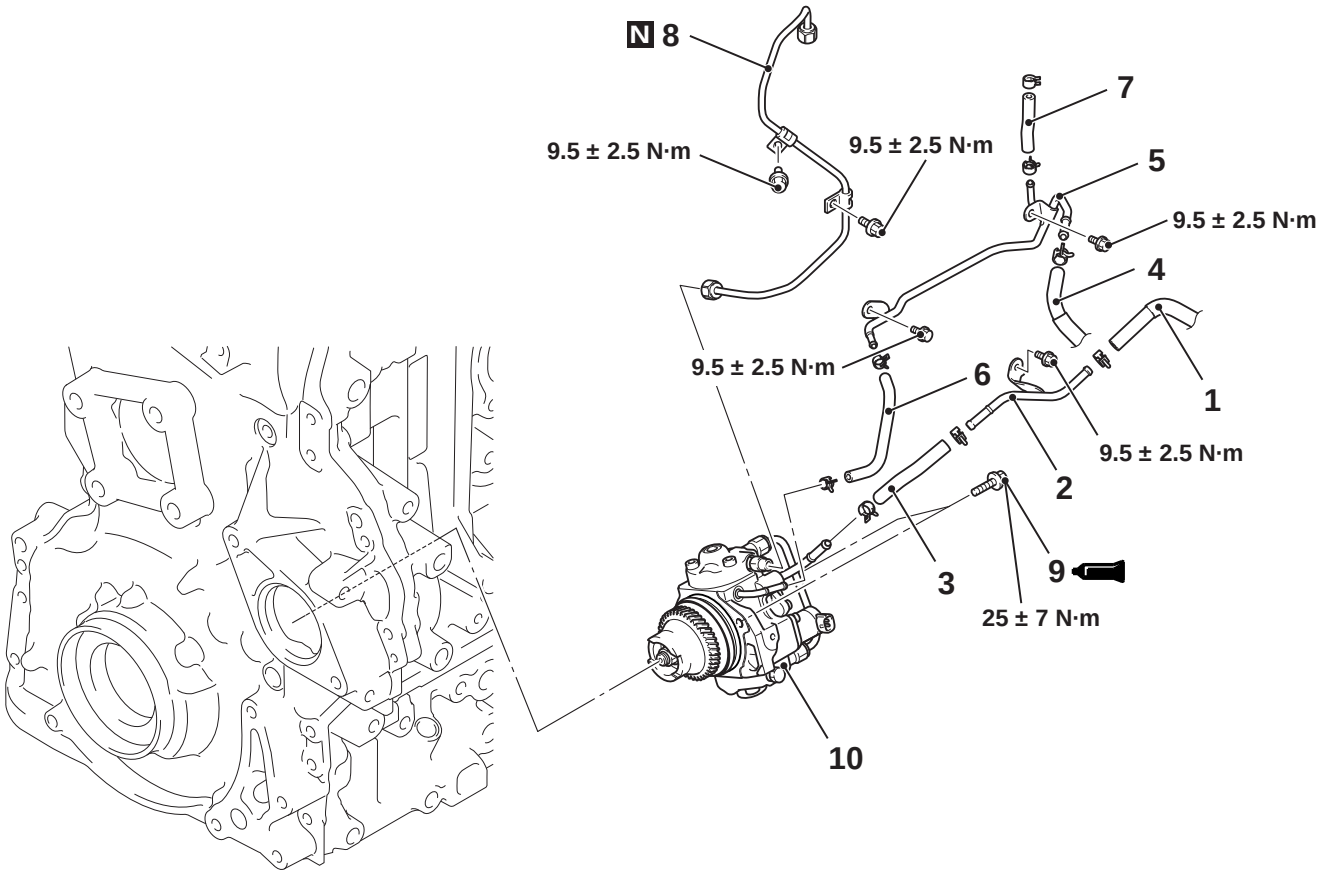
<Incorrect>

Pre-removal Operation	Post-installation Operation
• Harness bracket Removal (Refer to). • Throttle Body Assembly Removal (Refer to). • EGR Cooler Removal (Refer to GROUP 17 – Emission Control, EGR Valve and EGR Cooler). • Vacuum Pump Assembly Removal (Refer to GROUP 11E – Vacuum Pump).	• Vacuum Pump Assembly Installation (Refer to GROUP 11E – Vacuum Pump). • EGR Cooler Installation (Refer to GROUP 17 – Emission Control, EGR Valve and EGR Cooler). • Throttle Body Assembly Installation (Refer to). • Harness bracket Installation (Refer to). • Fuel Line Leak Check (Refer to)

<Correct>

Pre-removal Operation	Post-installation Operation
• Throttle Body Assembly Removal (Refer to GROUP 13C – Throttle Body Assembly). • Harness bracket Removal (Refer to GROUP 13C – Fuel Injector). • EGR Cooler Removal (Refer to GROUP 17 – Emission Control, EGR Valve and EGR Cooler). • Starter Assembly Removal (Refer to GROUP 16 – Starting System, Starter Assembly). • Engine Oil Level Gauge Guide Removal (Refer to GROUP 15 – Inlet manifold). • Vacuum Pump Assembly Removal (Refer to GROUP 11E – Vacuum Pump). • Oil Pipe Removal (Refer to GROUP 11E – Vacuum Pump).	• Oil Pipe Installation (Refer to GROUP 11E – Vacuum Pump). • Vacuum Pump Assembly Installation (Refer to GROUP 11E – Vacuum Pump). • Engine Oil Level Gauge Guide Installation (Refer to GROUP 15 – Inlet manifold). • Starter Assembly Installation (Refer to GROUP 16 – Starting System, Starter Assembly). • EGR Cooler Installation (Refer to GROUP 17 – Emission Control, EGR Valve and EGR Cooler). • Harness bracket Installation (Refer to GROUP 13C – Fuel Injector). • Throttle Body Assembly Installation (Refer to GROUP 13C – Throttle Body Assembly). • Fuel Line Leak Check (Refer to GROUP 13C – On-vehicle Service, Fuel Line Leak Check).

Attached sheet 1 (2/3)



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Removal steps

<Added>
- Water hose I connection (Refer to GROUP 14 – Water Hose and Water Pipe).
- Water hose H connection (Refer to GROUP 14 – Water Hose and Water Pipe).
- Water hose A connection (Refer to GROUP 14 – Water Hose and Water Pipe).

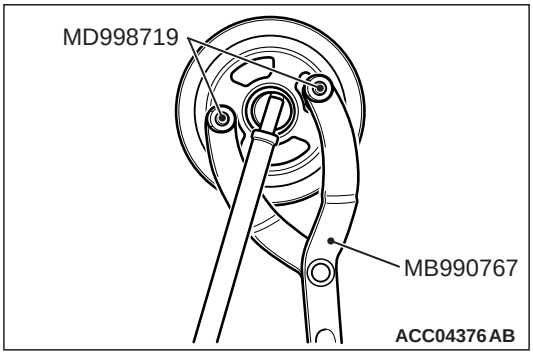
1. Fuel hose D connection
2. Fuel inlet pipe assembly
3. Fuel inlet hose
4. Fuel return hose connection
5. Fuel return pipe assembly A
6. Fuel return hose E
7. Fuel return hose F

<Added> >>B<< 8. Supply pump pipe
<<B>> >>A<< 9. Supply pump mounting bolt
<<A>> >>A<< 10. Supply pump assembly

REMOVAL SERVICE POINTS

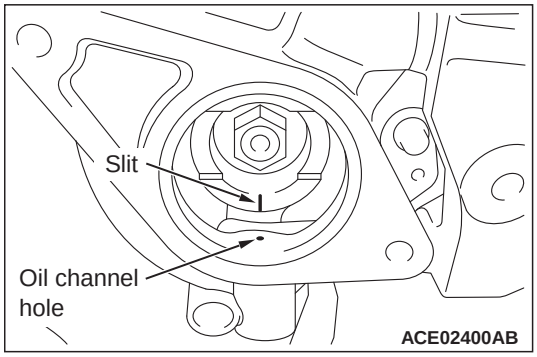
<<A>> SUPPLY PUMP ASSEMBLY REMOVAL

When you pull out the supply pump gear from the supply pump assembly, loosen the supply pump gear mounting nut according to the procedure below in advance.



1. Use the following special tools to support the crankshaft pulley.
   - Front hub and flange yoke holder (MB990767)
   - Pin (MD998719)
2. Loosen the supply pump gear mounting nut.

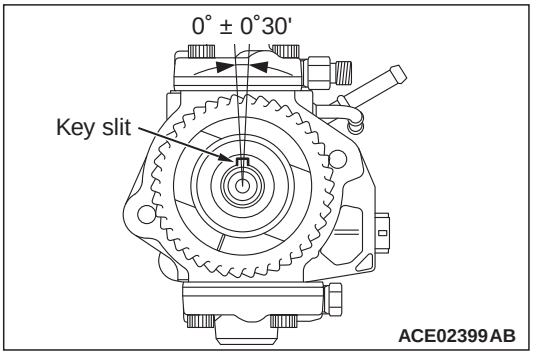
<<B>> SUPPLY PUMP MOUNTING BOLT REMOVAL



1. Working through the vacuum pump opening on the timing chain case, align the slit in the supply pump gear with the oil channel hole in the timing chain case.
2. Remove the supply pump mounting bolts.

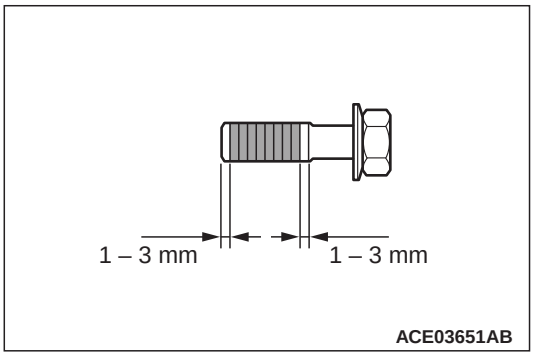
INSTALLATION SERVICE POINTS

>>A<< SUPPLY PUMP ASSEMBLY / SUPPLY PUMP MOUNTING BOLT INSTALLATION



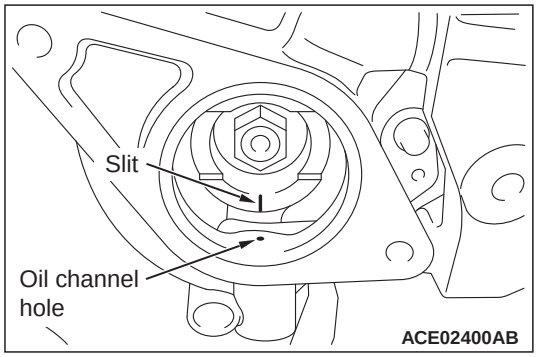
1. Position the key slit on the supply pump gear as shown.
2. Remove all the residual sealant from the threaded hole in the cylinder block.

   When the supply pump mounting bolt is reused, carefully remove the residual sealant from the bolt thread.



3. When the supply pump mounting bolt is reused, apply the sealant as shown.

   Specified sealant: ThreeBond 2403 or equivalent



4. Insert the supply pump assembly through the vacuum pump opening in the timing chain case so that the slit on the supply pump gear is aligned with the oil channel hole on the timing chain case.
5. Tighten the supply pump mounting bolts to the specified torque.

   Tightening torque: 25 ± 7 N·m

6. If the supply pump gear mounting nut is loosened, use the same special tools as during removal to tighten the supply pump gear mounting nut to the specified torque.
   - Front hub and flange yoke holder (MB990767)
   - Pin (MD998719)

   Tightening torque: 83 ± 5 N·m

Attached sheet 2 (1/3)

REMOVAL AND INSTALLATION

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⚠ CAUTION

- **To remove and install the supply pump, be careful not to damage the inside diameter of the pump engagement hole on the cylinder block.**
- **When the supply pump is replaced, use the M.U.T.-III to initialise the learning value (Refer to GROUP 00 – Precautions Before Service, Initialisation Procedure for Learning Value in Common Rail Engine).**
- **When the supply pump is replaced, perform the supply pump correction learning (Refer to GROUP 00 – Precautions before Service, What the Common Rail Engine Learns).**

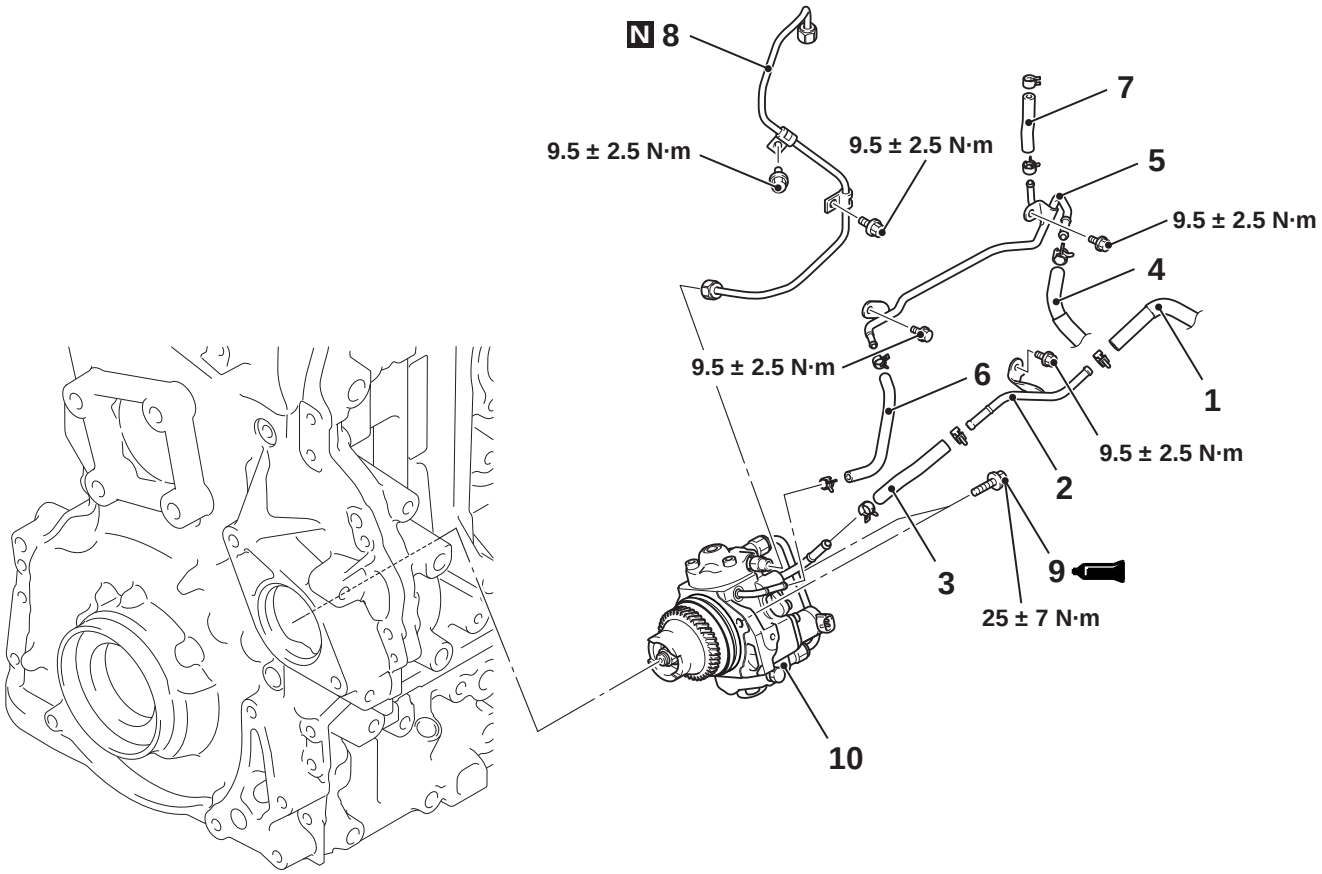
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Pre-removal Operation	Post-installation Operation
• Harness bracket Removal (Refer to). • Throttle Body Assembly Removal (Refer to). • EGR Cooler Removal (Refer to GROUP 17 – Emission Control, EGR Valve and EGR Cooler). • Vacuum Pump Assembly Removal (Refer to GROUP 11A – Vacuum Pump).	• Vacuum Pump Assembly Installation (Refer to GROUP 11A – Vacuum Pump). • EGR Cooler Installation (Refer to GROUP 17 – Emission Control, EGR Valve and EGR Cooler). • Throttle Body Assembly Installation (Refer to). • Harness bracket Installation (Refer to). • Fuel Line Leak Check (Refer to)

<Correct>

Pre-removal Operation	Post-installation Operation
• Throttle Body Assembly Removal (Refer to GROUP 13A – Throttle Body Assembly). • Harness bracket Removal (Refer to GROUP 13A – Fuel Injector). • EGR Cooler Removal (Refer to GROUP 17 – Emission Control, EGR Valve and EGR Cooler). • Starter Assembly Removal (Refer to GROUP 16 – Starting System, Starter Assembly). • Engine Oil Level Gauge Guide Removal (Refer to GROUP 15 – Inlet manifold). • Vacuum Pump Assembly Removal (Refer to GROUP 11A – Vacuum Pump). • Oil Pipe Removal (Refer to GROUP 11A – Vacuum Pump).	• Oil Pipe Installation (Refer to GROUP 11A – Vacuum Pump). • Vacuum Pump Assembly Installation (Refer to GROUP 11A – Vacuum Pump). • Engine Oil Level Gauge Guide Installation (Refer to GROUP 15 – Inlet manifold). • Starter Assembly Installation (Refer to GROUP 16 – Starting System, Starter Assembly). • EGR Cooler Installation (Refer to GROUP 17 – Emission Control, EGR Valve and EGR Cooler). • Harness bracket Installation (Refer to GROUP 13A – Fuel Injector). • Throttle Body Assembly Installation (Refer to GROUP 13A – Throttle Body Assembly). • Fuel Line Leak Check (Refer to GROUP 13A – On-vehicle Service, Fuel Line Leak Check).

Attached sheet 2 (2/3)



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Removal steps

<Added>
- Water hose I connection (Refer to GROUP 14 – Water Hose and Water Pipe).
- Water hose H connection (Refer to GROUP 14 – Water Hose and Water Pipe).
- Water hose A connection (Refer to GROUP 14 – Water Hose and Water Pipe).

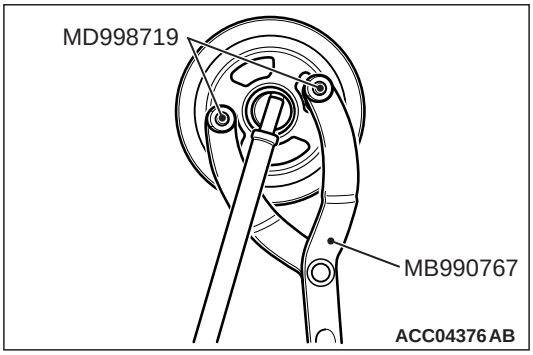
1. Fuel hose D connection
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3. Fuel inlet hose
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5. Fuel return pipe assembly A
6. Fuel return hose E
7. Fuel return hose F

<Added> >>B<< 8. Supply pump pipe
<<B>> >>A<< 9. Supply pump mounting bolt
<<A>> >>A<< 10. Supply pump assembly

REMOVAL SERVICE POINTS

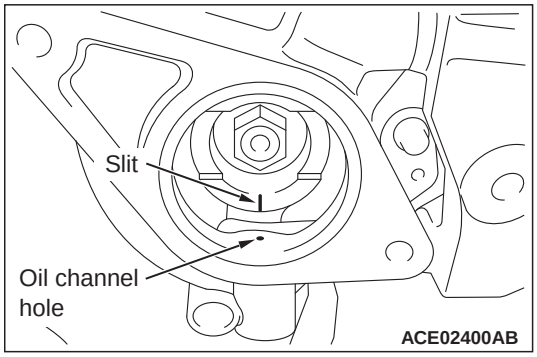
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2. Loosen the supply pump gear mounting nut.

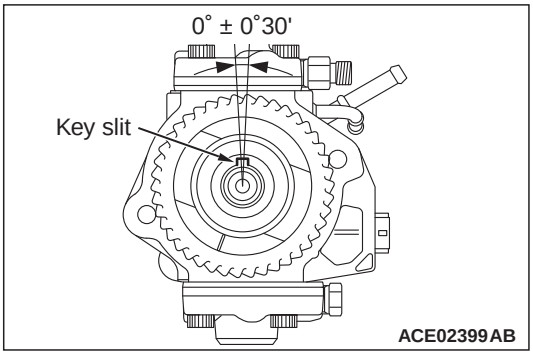
<<B>> SUPPLY PUMP MOUNTING BOLT REMOVAL



1. Working through the vacuum pump opening on the timing chain case, align the slit in the supply pump gear with the oil channel hole in the timing chain case.
2. Remove the supply pump mounting bolts.

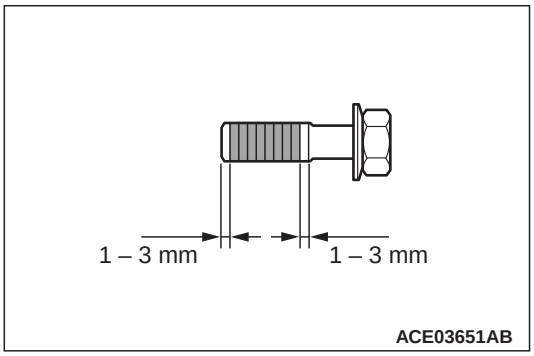
INSTALLATION SERVICE POINTS

>>A<< SUPPLY PUMP ASSEMBLY / SUPPLY PUMP MOUNTING BOLT INSTALLATION



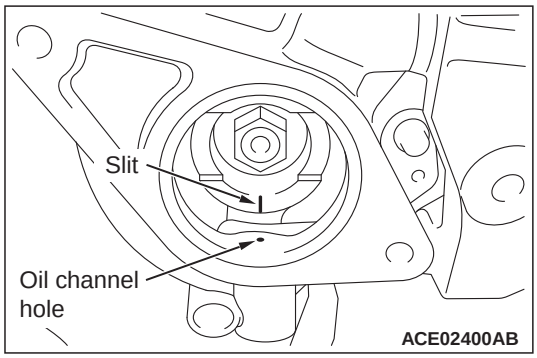
1. Position the key slit on the supply pump gear as shown.
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   When the supply pump mounting bolt is reused, carefully remove the residual sealant from the bolt thread.



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   Specified sealant: ThreeBond 2403 or equivalent



4. Insert the supply pump assembly through the vacuum pump opening in the timing chain case so that the slit on the supply pump gear is aligned with the oil channel hole on the timing chain case.
5. Tighten the supply pump mounting bolts to the specified torque.

   Tightening torque: 25 ± 7 N·m

6. If the supply pump gear mounting nut is loosened, use the same special tools as during removal to tighten the supply pump gear mounting nut to the specified torque.
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   - Pin (MD998719)

   Tightening torque: 83 ± 5 N·m