

Date:	18-11-2019
To:	Commercial manager/ Workshop manager / LPG technician
Reference:	VSI-2.0-DI Piezo Injector module revision /A & /B
Article number:	191/140010
System:	VSI-2.0-DI Piezo 4 cylinder engine

**Dear customer,**

With this information bulletin we want to inform you about the compatibility of the Piezo injection modules, the 4 cylinder injector wiring looms and the needed modifications.

## What?

Prins introduced a new Piezo injection module, revision /B in which hardware changes have been made. When an old (/A) Piezo injector module needs to be replaced by a new (/B) module, it is possible that the injector loom needs extra adaptations. These wire loom modifications are needed for a 4 cylinder engine. Please read this information bulletin very carefully.

As from week 43 in 2019, Prins already delivers completely modified injector looms for the Piezo kits. These are compatible for both revision /A and /B Piezo injection modules, and can be identified by a red mark on the label.



Without red mark	With red mark

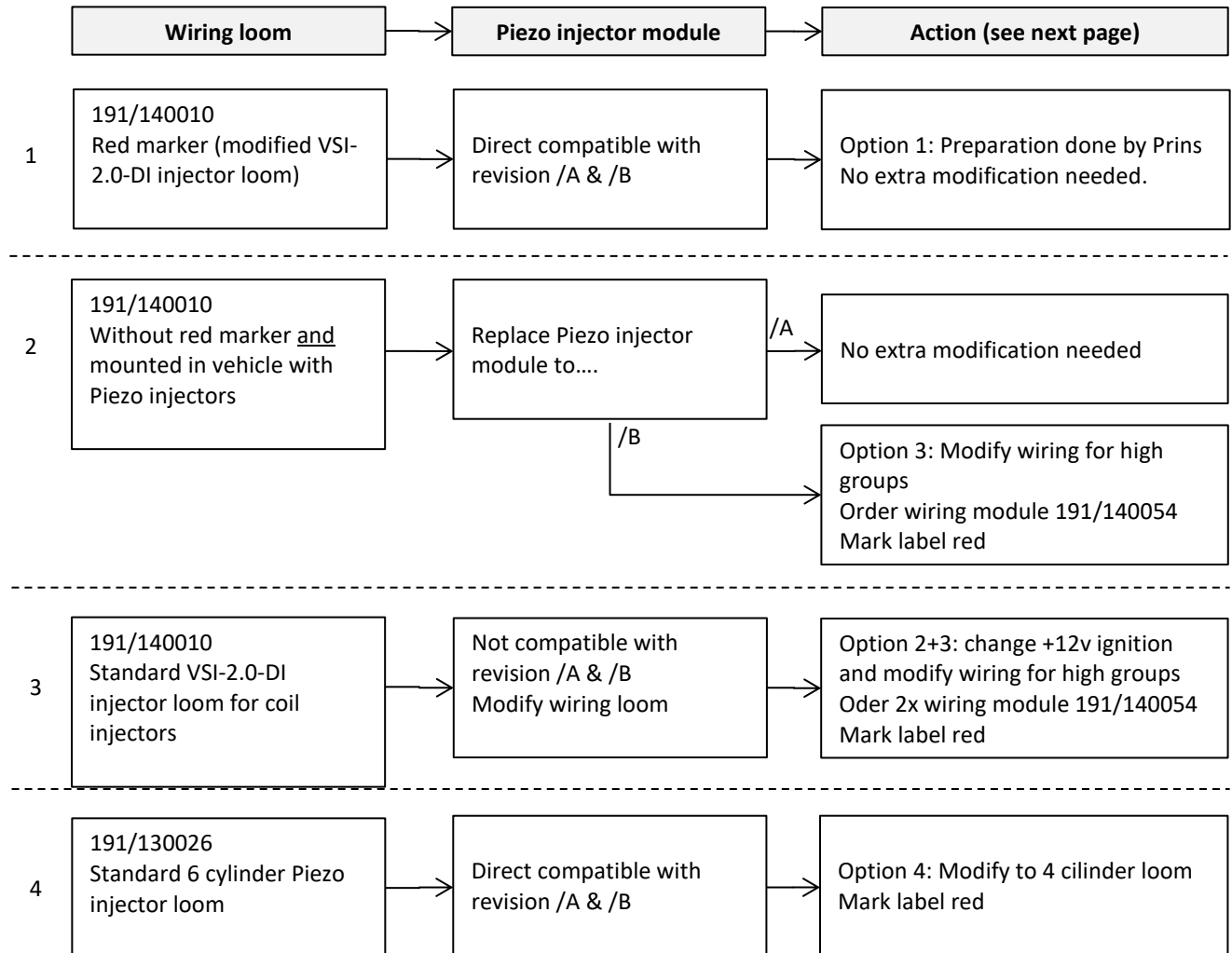
## Parts identification

Part identification	Description
191/140010 non red marked	Standard VSI-2.0-DI 4 cylinder injector loom (loom from stock)
	Partly modified VSI-2.0-DI 4 cylinder injector loom (mounted in car)
191/140010 Red marked	Modified VSI-2.0-DI 4 cylinder injector loom to Piezo
191/130026	Standard VSI-2.0-DI Piezo 6 cylinder injector loom
191/130026 Red marked	Modified VSI-2.0-DI Piezo 6 cylinder injector loom to a 4 cylinder loom
191/140054	Wire Red-Grey injector module power terminal
191/710010/A	Module Injection 6 cylinder Piezo VSI-DI (3 injector groups)
191/710010/B	Module Injection 6 cylinder Piezo VSI-DI (6 injector groups)

### What to do?



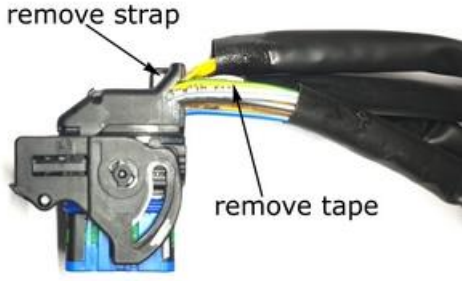


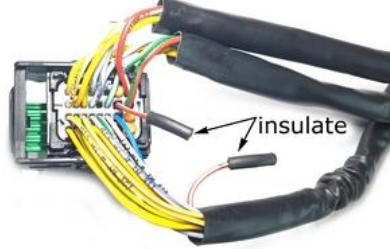


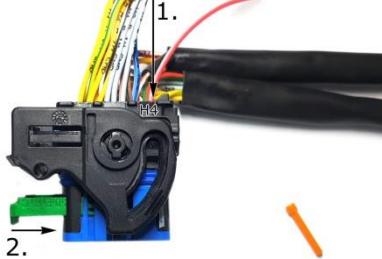
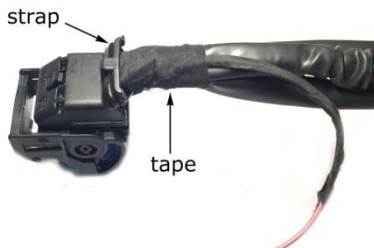


Follow the flow chart to determine the changes to be made.  
If necessary order wire modules 191/140054.  
Mark the label with a red colour after modification.



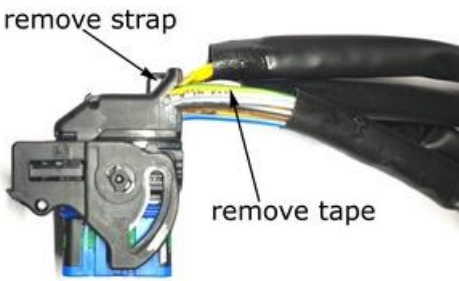
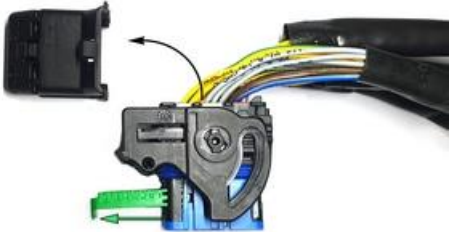
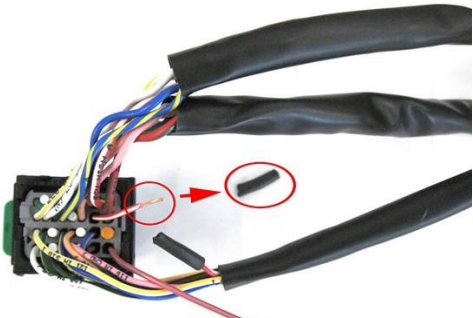
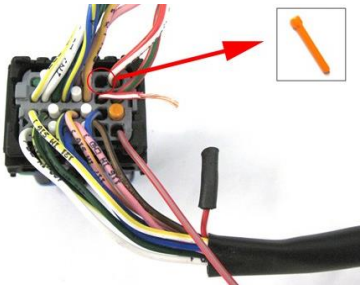
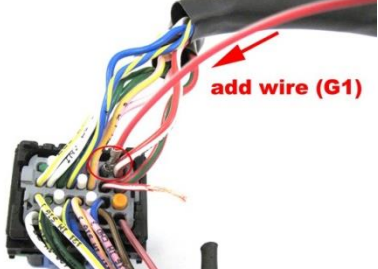

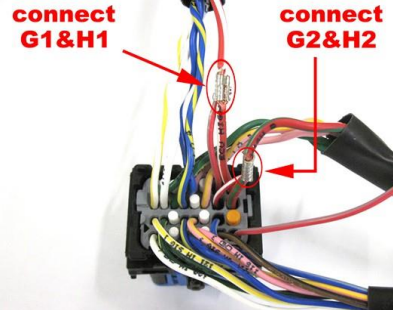
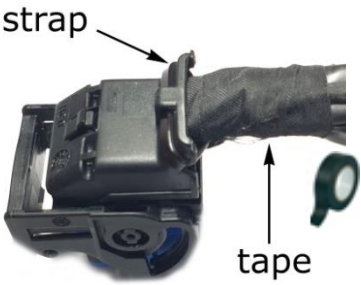
Option	What to do?	Example modifications in wiring diagram
1	Preparation done by Prins / adapted wiring loom	Install the wiring loom and / or Piezo injection module without modifications.
2	<ul style="list-style-type: none"> <li>- Cut and insulated wire G2</li> <li>- Insert wire module 191/140054 into H4</li> <li>- Connect H4 to + ignition wire (pin 112 AFC)</li> <li>- Insulate soldered connection</li> </ul> <p>See page 5</p>	
3	<ul style="list-style-type: none"> <li>- Insert wire module 191/140054 into G1</li> <li>- Connect wire G1 to H1</li> <li>- Insulate connection</li> <li>- Remove insulation G2</li> <li>- Connect wire G2 to H2</li> <li>- Insulate connection</li> </ul> <p>See page 6</p>	
4	<p>Cut and insulate all wires from cylinder 5 and 6</p> <p>See page 7</p>	

Detailed instructions

Wiring loom adaption – Option 2

 <p>remove strap</p> <p>remove tape</p>	
<p>Remove strap and tape</p>	<p>Remove cap</p>
 <p>G2 red/white cut</p>	 <p>insulate</p>
<p>Cut wire G2 (Red/White)</p>	<p>Insulate both wire ends</p>
 <p>H4</p>	
<p>Remove blind plug from position H4</p>	<p>Insert wire module 191/140054 into position H4 until it locks</p>
 <p>1.</p> <p>2.</p>	 <p>strap</p> <p>tape</p>
<p>Push green lock back in position</p>	<p>Tape and strap wire</p>
 <p>112 + ignition</p>	 <p>solder &amp; insulate wire H4 to 112</p>
<p>Free the sleeve of wire 112 + ignition</p>	<p>Solder and insulate wire and sleeve</p>

Wiring loom adaption – Option 3

 <p>remove strap</p> <p>remove tape</p>	
<p>Remove strap and tape</p>	<p>Remove cap</p>
	
<p>Remove the shrink sleeve and insulation from wire G2</p>	<p>Remove plug from G1</p>
 <p>add wire (G1)</p>	 <p>strip G1 &amp; G2</p>
<p>Add extra wire module 191/140054 into G1</p>	<p>Strip wires G1 and G2</p>
 <p>connect G1&amp;H1</p> <p>connect G2&amp;H2</p>	 <p>strap</p> <p>tape</p>
<p>Connect wire G1&amp;H1 and insulate Connect wire G2&amp;H2 and insulate</p>	<p>Tape loom and add trap</p>



**Wiring loom adaption – Option 4**

Remove and insulate the connectors to the LPG injectors from cylinder 5 & 6

Tape the wiring loom as shown for easy mounting

Cut and insulate the wires for the interruption to cylinder 5 & 6

INJ LO 5		Grey
ECU LO 5		Grey-yellow
ECU HIGH 5		Red-grey
INJ LO 6		Brown
ECU LO 6		Brown-yellow
ECU HIGH 6		Red-brown

To have a smaller wiring loom it is easier to cut and insulate those wires at the module connector

In case any support is needed, please contact your local distributor.

Kind regards,  
Prins Autogassystemen B.V.  
After Sales Department