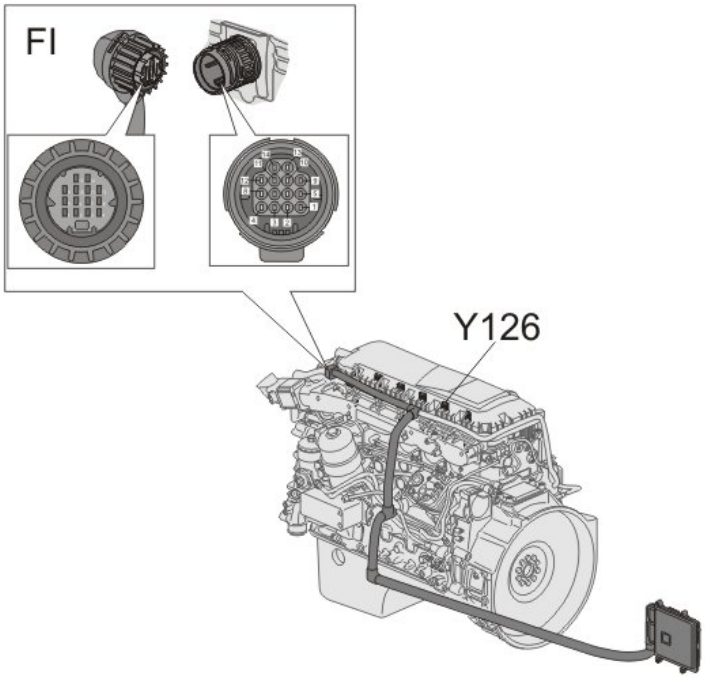
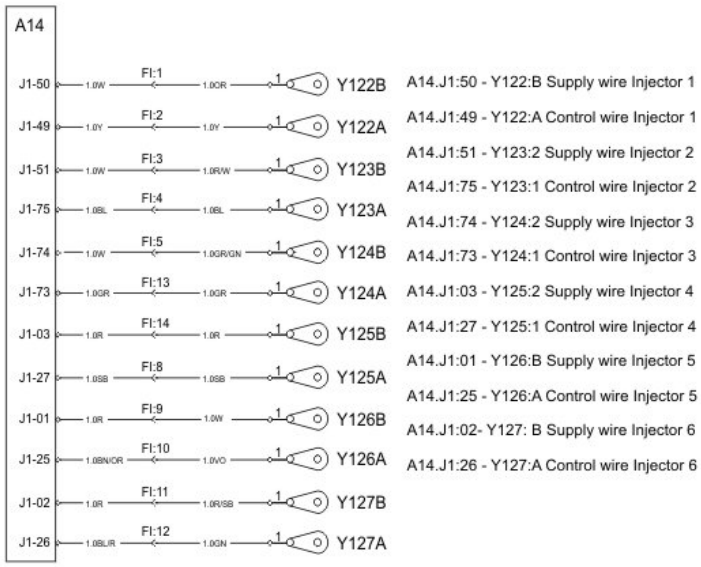
# P0274 - Injector 5 Short Circuit High

| Y126: Injector. | Schematics: |
|---|---|
|   |   |

| Fault type | Condition for Fault | Observable Symptoms | Possible cause |
|---|---|---|---|
| P0274 FTB 00 | Injector Activated. | • Low power.<br>• Abnormal noise.<br>• Uneven operation.<br>• Engine is operating on only 5 cylinders. | • Connector.<br>• Wiring harness.<br>• Nozzle. |

## Basic check:

**Visual wiring harness check:**

| Purpose: | Action: | Evaluation: |
|---|---|---|
| Check the wiring harness. | Visually check that wiring harness is not damaged. | None. |

**Connector check:**

| Purpose: | Action: | Evaluation: |
|---|---|---|
| Check connector A14 J1 — J2 & FI. | • Check that the connectors are properly connected and locked into position<br>• Disconnect and check the component connector.<br>• Inspect pins and terminals for oxidations or corrosion.<br>• Ensure that the pins and terminals are locked into the connectors and that they are not pushed back out of the sockets.<br>• Check the pins and terminal are not damaged (which can cause poor connection).<br>• Carefully insert the correct test pin from special tool 9990008 and verify that pin connections are in good condition. | |

## Test instruction:

| Purpose: | Action: | Evaluation: |
|---|---|---|
| Check wiring harness and connector. | • Remove the valve cover.<br>• Check the wiring harness.<br>*Note: Do not put the valve cover back until you have completed the fault tracing.* | None. |

**Resistance measurement**




| Measurement | Key position | Measurement points | | Expected Value | Measured value | Other (Special Tool PN) |
|---|---|---|---|---|---|---|
| | | Breakout box | Wiring diagram | | | |
| Short circuit | OFF | A:25 — All other pins at connectors J1 and J2 | A14:J1-25 — All other pins at connectors J1 and J2 | R = Open Circuit ***Disconnect FI connector*** | | 88890074, 9998699, 88890227, 9990061/62 |
| Short circuit | OFF | A:01 — A:25 | A14:J1:01 — A14:J1:25 | R = Open circuit | | 88890074, 9998699, 88890227, 9990061/62 |
| Short circuit | OFF | A:50 — A:25 | A14:J1:50 — A14:J1:25 | R = Open circuit | | 88890074, 9998699, 88890227, 9990061/62 |
| Short circuit | OFF | A:51 — A:25 | A14:J1:51 — A14:J1:25 | R = Open circuit | | 88890074, 9998699, 88890227, 9990061/62 |
| Short circuit | OFF | A:03 — A:25 | A14:J1:03 — A14:J1:25 | R = Open circuit | | 88890074, 9998699, 88890227, 9990061/62 |
| Short circuit | OFF | B:12 —A:25 | A14:J1:74 — A14:J1:25 | R = Open circuit | | 88890074, 9998699, 88890227, 9990061/62 |
| Short circuit | OFF | A:02 — A:25 | A14:J1:02 — A14:J1:25 | R = Open circuit | | 88890074, 9998699, 88890227, 9990061/62 |

Connect TECHTOOL to the vehicle and run ***23712 — 2 injectors shut off manual*** operation.

## Verification:

| Purpose: | Action: | Evaluation: |
|---|---|---|
| Verification. | • Ignition key in OFF position.<br>• Wait 5 seconds.<br>• Ignition key in ON position.<br>• Run the engine for 30 seconds. | • If the fault code is not set during the verification the fault may be corrected.<br>• The status of the diagnostic process in the control unit can not be tested without communication with the vehicle.<br>• The fault code may appear later when the vehicle has been returned to service. |