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| **Tools information** |
| **KDI 1903TCR / KDI 1903TCRE5 Workshop manual (Rev. 17.8)** |



**Registration of modifications to the document**

Any modifications to this document must be registered by the drafting body, by completing the following table.

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| **Released by** | **Code** | **Revision** | **Release Date** | **Revision date** | **Edited by** | **Endorsed** |
|  | manoff |  |  |  |  |  |

**Translated from the original manual in Italian language**

Data reported in this issue can be modified at any time by KOHLER.

Sommario

[1. TITOLO 1 2](#_Toc495648770)

[1.1. Asdfsdfsdf 2](#_Toc495648771)

[1.2. Asdfsdfsdfggg 2](#_Toc495648772)

# Tools information

## Information regarding specific tools

In **Tab 13.1 - 13.2 - 13.3** there is a list of all the specific tools that are required and approved to carry out operations of disassembly - assembly - regulations - settings - repairs on engine series **KDI**

, correctly and safely.

 **Warning**

* **KOHLER** declines all responsibility for any damage to the engine, persons, or things caused by the use of different types of tools to those indicated in **Tab 13.1 - 13.2 - 13.3** , where referred to them in the manual.

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| **Tab. 13.1** |
| **SPECIAL TOOLS FOR DISASSEMBLY AND ASSEMBLY** |
| **"ST"** | **Picture/Draw** | **DESCRIPTION** | **PART NUMBER** |
| **ST\_03** | immst_03.jpg | Piston protrusion - electronic injectors cylinder head surface control tool | ED0014602980-S |
| **ST\_04** | immst_04.jpg | High-pressure fuel injection pump puller gear | ED0014603680-S |
| **ST\_05** | immst_05.jpg | Spanner for capscrews Six nicks SN 8 | ED0014603650-S |
| **ST\_06** | immst_06.jpg | Spanner for capscrews Six nicks SN 5 | ED0014603640-S |
| **ST\_07** | immst_07.jpg | Tool for disassembling / reassembling valves | ED0014603720-S |
| **ST\_08** | immst_08.jpg | Tool for gasket valve stem | ED0014603660-S |
| **ST\_09** | immst_09.jpg | Tool for flywheel assembling / disassembling | ED0014603610-S |
| **ST\_10** | immst_10.jpg | Crankshaft gasket assembling tool | ED0014603670-S |
| **ST\_11** | immst_11.jpg | Rocker arm cover gasket assembling tool (electronic injector seat) | ED0014603620-S |
| **ST\_12** | immst_12.jpg | Rocker arm cover gasket assembling tool (rocker arm capscrew gudgeon seat - electronic injector fastening capscrew brace seat) | ED0014603630-S |
| **ST\_14** | immst_14.jpg | Buffer insertion of a crankshaft gasket onto a timing system carter | ED0014603750-S |
| **ST\_15** | immst_15.jpg | Locking screw balance shafts | ED0097301980-S |
| **ST\_17** | immst_17.jpg | Rocker arm cover mounting studs | ED0014603730-S |
| **ST\_18** | immst_18.jpg | Intake and oil sump manifold mounting studs | ED0014603740-S |
| **ST\_34** | Bloccaggio.png | Crankshaft blocking tool | ED0014604270-S |
| **Tab. 13.2** |
| **SPECIFIC EQUIPMENT TO PROTECT COMPONENTS OF THE INJECTION CIRCUIT** |
| **ST\_40** | immst_40a.jpgimmst_40b.jpg | Complete box with caps to close holes and unions for high-pressure injection circuit components. | ED0082051380-S |
| **Tab. 13.3** |
| **SPECIAL TOOLS TO TEST THE ENGINE ON THE TEST BENCH - DIAGNOSTIC PROCEDURE** |
| **ST\_01** | 3.png | Complete instrument Kit for diagnostics"POLAR XL" | ED0014603690-S |
| **ST\_49** | 1.png | Complete instrument Kit for diagnostics"DIAGBOX" | ED0014604210-S |
| **ST\_50** | 2.png | Complete instrument Kit for engines bench test | ED0014604110-S |

