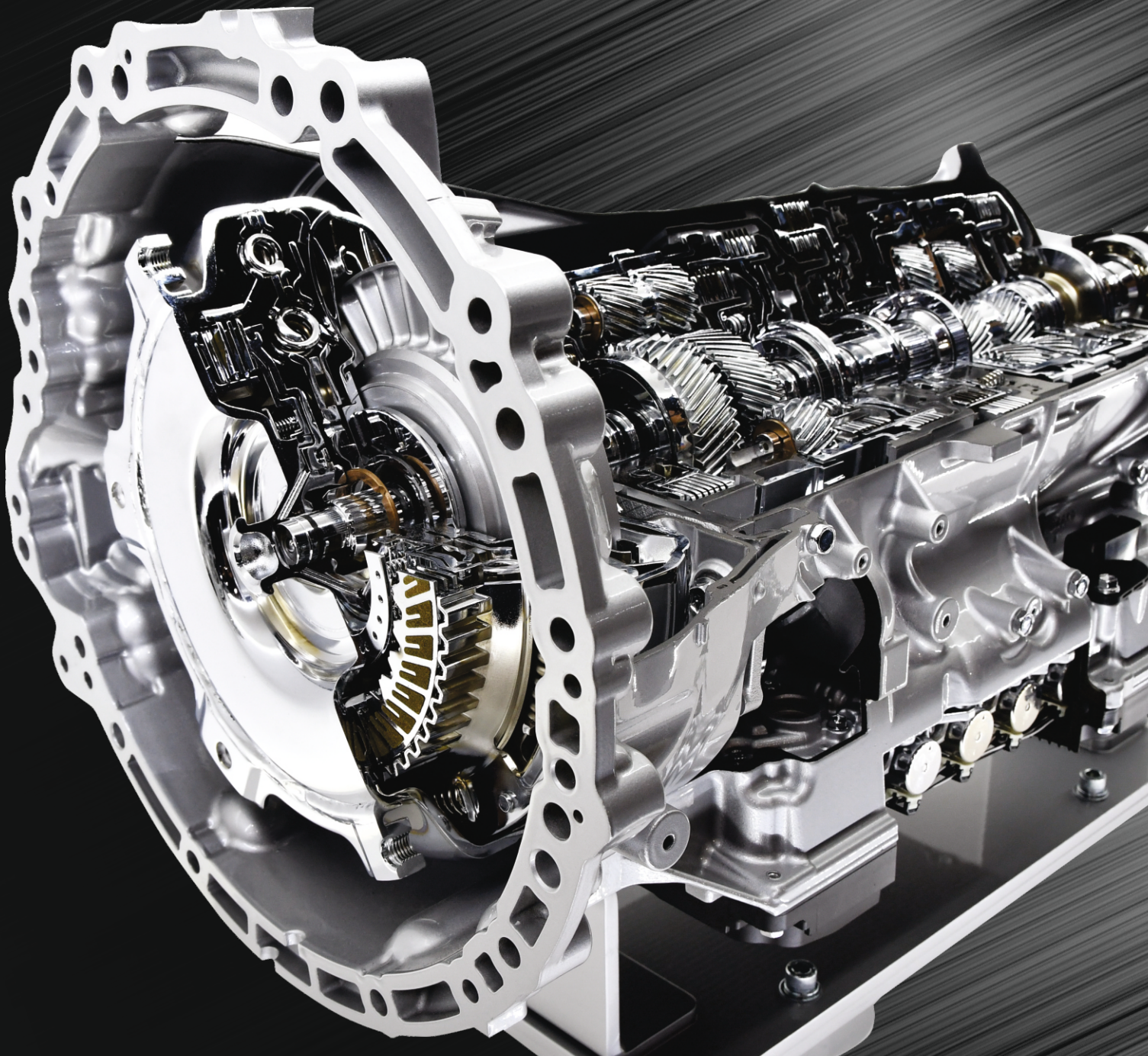


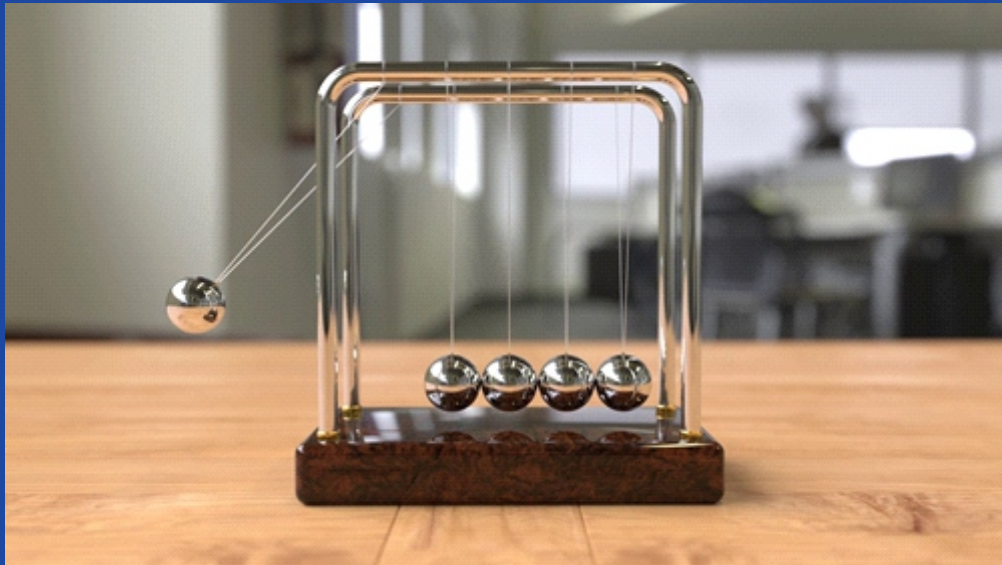
**KINERGO<sup>®</sup>**

# CATALOGUE 2024

Solenoid Test Machine







At KINERGO®, we strive to stay ahead of the competition by constantly generating new ideas and translating them into innovative products. Our team of experienced professionals is dedicated to developing and improving our technology to produce top-quality equipment, spare parts, and accessories for diagnosing, repairing, and restoring automatic transmissions.

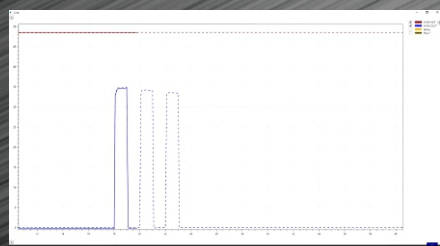
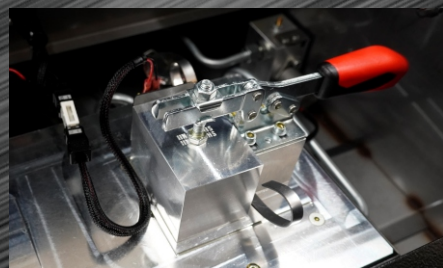
- Shatkov A., CEO

KINERGO® is a fully integrated manufacturing company that prides itself in innovation, engineering, production and confidence. For 15 years, we have been developing, producing and distributing equipment and spare parts worldwide to facilitate professional repair and diagnostics of automatic transmissions.

We understand that starting a new business or expanding an existing one requires careful planning and technical expertise. Our extensive experience in repairing torque converters, as well as diagnosing valve bodies and solenoids, is at your disposal. We can guide you through the entire process, from logistics and equipment placement to repair techniques and volume estimation.

Moreover, we offer training courses for employees who want to improve their skills in using KINERGO®'s equipment. Our technical center provides hands-on training on diagnosing and repairing different types of torque converters, as well as troubleshooting valve bodies and solenoids.

At KINERGO®, we are committed to providing the best products, as well as technical support and training, to help our clients achieve their business goals.

**ST 01.100**


## SOLENOID TEST MACHINE STM-K | ST 01.100

This test bench is designed to test the operability of solenoids from various manufacturers.

The following tools are used:

- Control system for the value of current flowing through the solenoid coil.
- High-precision pressure sensors for obtaining open graphs and hysteresis loops.
- A flow meter that controls the flow of liquid through a solenoid.

### Advantages:

- KINERGO controller for simulating signals of electronic automatic transmission units.
- Maintaining preset constant conditions during the test using unique software and visual demonstration.
- The test process is optimally adapted to the specific solenoid being tested.
- Fast and uniform preheating of the working fluid.
- More than 70 special adapters.
- Intuitive, updatable software.

To ensure maximum ease of use, KINERGO has developed an assortment of special adapters for solenoids, which allows diagnostics of products of most popular brands.



Power

6,5 kW



Voltage

230/400 V



Max. oil  
temperature

120 °C



Relative humidity

30%...80%



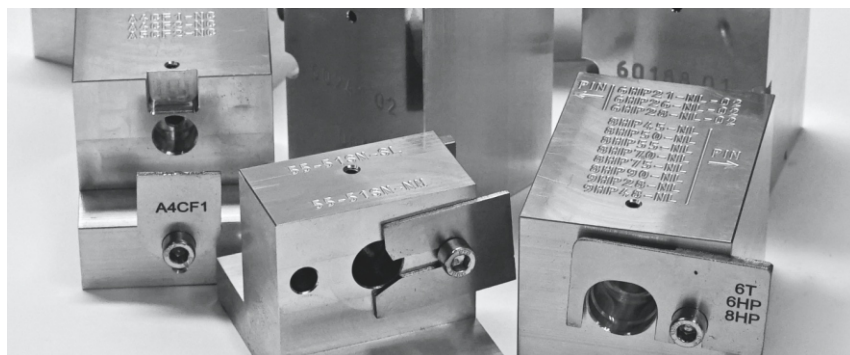
Weight

300 kg



Dimensions (LxWxH)

1360x700x1530 mm



## ADAPTERS AND CABLES FOR SOLENOIDS TESTING

| Transmission                                                                                                              | Adapter  | Compatible cable       |
|---------------------------------------------------------------------------------------------------------------------------|----------|------------------------|
| <b>AISIN WARNER</b>                                                                                                       |          |                        |
| AW60-40LE (AF13); AW60-42LE (AF13); AW60-41SN (AF17)                                                                      | 60113.01 | 60113.02CH             |
| AW60-40LE (AF13); AW60-42LE (AF13); AW60-41SN (AF17)                                                                      | 60113.02 | 60113.01CH             |
| AW60-40LE (AF13); AW60-42LE (AF13); AW60-41SN (AF17)                                                                      | 60113.03 | 60113.01CH             |
| AW55-50SN (AF33, RE5F22A, AF33-5); AW55-51SN                                                                              | 60114.01 | 60114.01CH             |
| TF-60SN (09G); TF-61SN (09K); TF-62SN (09M); TR-60SN (09D); TF-80SC (AF40, AW6A-EL); TF-81SC (AF21); TR-80SD (0C8)        | 60119.01 | 60114.01CH             |
| TF-60SN (09G); TF-61SN (09K); TF-62SN (09M); TR-60SN (09D); TF-80SC (AF40, AW6A-EL); TF-81SC (AF21); TR-80SD (0C8)        | 60119.02 | 60114.01CH             |
| TF60 (Gen.2)                                                                                                              | 60121.01 | 60114.01CH             |
| TR80-SD (0C8)                                                                                                             | 60137.01 | 60114.01CH             |
| TF-70SC; TF-81SC (Gen.2); TF-60SN (Gen.2)                                                                                 | 60194.01 | 60114.01CH             |
| TF-70SC; TF-81SC (Gen.2); TF-60SN (Gen.2)                                                                                 | 60194.02 | 60114.01CH             |
| <b>BTR</b>                                                                                                                |          |                        |
| M11; M78                                                                                                                  | 60180.01 | 60180.01CH             |
| M11; M78                                                                                                                  | 60192.01 | 60192.01CH             |
| <b>CHERY</b>                                                                                                              |          |                        |
| QR019CHA                                                                                                                  | 60202.01 | 60705.01CH             |
| <b>FORD</b>                                                                                                               |          |                        |
| 6R80; 6R75                                                                                                                | 60138.01 | 60015.02CH             |
| 6R80; 6R60; 6R75, 6F35                                                                                                    | 60138.02 | 60015.02CH             |
| 4F27E (FN4AEL); FNR5                                                                                                      | 60156.01 | 60156.01CH             |
| 4F27E (FN4AEL); FNR5                                                                                                      | 60156.02 | 60156.02CH             |
| 4F27E (FN4AEL); FNR5                                                                                                      | 60156.03 | 60156.01CH             |
| <b>GETRAG</b>                                                                                                             |          |                        |
| SMG3 Getrag (BMW M-Series)                                                                                                | 60209.01 | 60209.01CH             |
| SMG3 Getrag (BMW M-Series)                                                                                                | 60209.02 | 60209.01CH             |
| 6DCT450; 6DCT470                                                                                                          | 60246.01 | 60246.01CH             |
| 6DCT450; 6DCT470                                                                                                          | 60246.02 | 60246.01CH             |
| 6DCT450; 6DCT470                                                                                                          | 60246.03 | 60246.03CH             |
| <b>GM</b>                                                                                                                 |          |                        |
| 6T30; 6T35; 6T40; 6T45; 6F35                                                                                              | 60138.01 | 60015.02CH             |
| 6T30; 6T35; 6T40; 6T45; 6F35                                                                                              | 60138.02 | 60015.02CH             |
| 6T30; 6T35; 6T40; 6T45                                                                                                    | 60153.01 | 60015.02CH             |
| 4T40E; 4T65E; 4L60E; 4L65E; 4L70E; 5L40E                                                                                  | 60165.01 | 60180.01CH; 60180.03CH |
| 4L40E; 4L60E; 4L65E; 4L70E; 4T60E; 4T65E; 4T80E; 5L40E; 5L50E                                                             | 60180.01 | 60180.01CH             |
| 4L60E; 4L65E; 4L70E; 4L75E; 4L80E                                                                                         | 60180.02 | 60180.01CH             |
| <b>HYUNDAI</b>                                                                                                            |          |                        |
| A6MF2; A6LF2; A6GF2                                                                                                       | 60140.01 | 60015.02CH             |
| A8LR1; A8TR1                                                                                                              | 60178.01 | 60178.01CH             |
| A6GF2                                                                                                                     | 60207.01 | 60015.02CH             |
| A6MF1 (6F24); A6LF1; A6GF1                                                                                                | 60241.01 | 60015.02CH             |
| A6MF1 (6F24); A6LF1; A6GF1; A8LR1; A8TR1; A6MF2; A6LF2; A6GF2                                                             | 60241.02 | 60015.02CH             |
| A4CF1; A4CF2                                                                                                              |          | 60705.01CH             |
| A8TR1; A8LR1; A6MF1 (6F24); A6LF1; A6GF1                                                                                  | 60242.02 | 60015.02CH             |
| A4CF                                                                                                                      | 60705.01 | 60705.01CH             |
| <b>JATCO/NISSAN</b>                                                                                                       |          |                        |
| JF015E (RE0F11A); JF016E (RE0F10D); JF017E (CVT8); JF414E                                                                 | 60015.01 | 60015.01CH             |
| JF010E (RE0F09A); JF011E (RE0F10A); JF015E (RE0F11A); JF016E (RE0F10D); JF017E (CVT8); JR507E (RE5R05A); JR710E (RE7R01A) | 60015.02 | 60015.02CH             |
| JF506E (RE5F01A, 09A, 09B)                                                                                                | 60166.01 | 60156.02CH             |
| JF506E (RE5F01A, 09A, 09B)                                                                                                | 60166.02 | 60156.02CH             |
| JF506E (RE5F01A, 09A, 09B)                                                                                                | 60166.03 | 60156.02CH             |
| JF506E (RE5F01A, 09A, 09B)                                                                                                | 60166.04 | 60156.02CH             |
| JF506E (RE5F01A, 09A, 09B)                                                                                                | 60166.05 | 60156.02CH             |
| JF506E (RE5F01A, 09A, 09B)                                                                                                | 60166.06 | 60156.02CH             |
| JF506E (RE5F01A, 09A, 09B)                                                                                                | 60166.07 | 60156.02CH             |



## ADAPTERS AND CABLES FOR SOLENOIDS TESTING

| Transmission                                                                                        | Adapter  | Compatible cable                     |
|-----------------------------------------------------------------------------------------------------|----------|--------------------------------------|
| JF506E (Mazda JA-5AEL/ 5F31J)                                                                       | 60166.08 | 60156.02CH                           |
| JF506E (Mazda JA-5AEL/ 5F31J)                                                                       | 60166.09 | 60166.09CH                           |
| JR507E (RE5R05A); JR710E (RE7R01A); JF009E (RE0F08A); JF010E (RE0F09A); JF011E (RE0F10A)            | 60179.01 | 60015.02CH                           |
| <b>LIFAN</b>                                                                                        |          |                                      |
| RDC 15-FB (Gen.2)                                                                                   | 60138.02 | 60015.02CH                           |
| R0CF15A3                                                                                            | 60205.01 | 60178.01CH                           |
| <b>MERCEDES</b>                                                                                     |          |                                      |
| 722.6                                                                                               | 60124.01 | 60124.01CH                           |
| 722.6                                                                                               | 60124.02 | 60124.01CH                           |
| 722.6                                                                                               | 60124.03 | 60124.03CH                           |
| 722.9; 722.8                                                                                        | 60126.01 | 60126.01CH                           |
| <b>MITSUBISHI/HYUNDAI</b>                                                                           |          |                                      |
| R4A51; V4A51; R5A51; V5A51; F4A41; F4A42; F4A51; F5A51; A5GF1; A5HF1                                | 60176.01 | 60176.01CH                           |
| F5A51; A5GF1; A5HF1                                                                                 | 60176.02 | 60192.01CH                           |
| F1C1                                                                                                | 60200.01 | 60176.01CH                           |
| <b>RENAULT/PEUGEOT</b>                                                                              |          |                                      |
| DP0; AL4; DP2                                                                                       | 60173.01 | 60173.01CH                           |
| DP0; AL4; DP2                                                                                       | 60173.02 | 60173.01CH                           |
| <b>TOYOTA/LEXUS</b>                                                                                 |          |                                      |
| U660E; U760E (TM-60LS)                                                                              | 60197.01 | 60114.01CH                           |
| U660E; U760E (TM-60LS);<br>U140E (Gen.2); U150E (Gen.2); U240 (Gen.2); U151E (Gen.2); U250E (Gen.2) | 60197.02 | 60114.01CH<br>60114.01CH; 60166.09CH |
| K310; K114                                                                                          | 60199.01 | 60114.01CH                           |
| K114                                                                                                | 60199.02 | 60114.01CH                           |
| U340E; U341E; U341F                                                                                 | 60201.01 | 60114.01CH; 60166.09CH               |
| U340E; U341E; U341F                                                                                 | 60201.02 | 60114.01CH; 60166.09CH               |
| U340E; U341E; U341F                                                                                 | 60201.03 | 60156.02CH                           |
| U340E; U341E; U341F                                                                                 | 60201.04 | 60156.02CH                           |
| U340E; U341E; U341F                                                                                 | 60201.05 | 60156.02CH                           |
| K112                                                                                                | 60208.01 | 60166.09CH                           |
| A750E; A760E; A761E/F; AB60                                                                         | 60239.01 | 60114.01CH; 60166.09CH               |
| <b>VW/AUDI</b>                                                                                      |          |                                      |
| 0B5 (DL501)                                                                                         | 60190.01 | 60192.01CH                           |
| 0AM (DQ200)                                                                                         | 60191.01 | ST 01.100CH                          |
| 02E (DQ250); 0BH1/0BT (DQ500); 0B5 (DL501)                                                          | 60192.01 | 60192.01CH                           |
| 02E (DQ250); 0BH1/0BT (DQ500); 0B5 (DL501)                                                          | 60192.02 | 60192.01CH                           |
| 0AW; 01J                                                                                            | 60198.01 | 60198.01CH                           |
| 0DD (DQ400)                                                                                         | 60206.01 | 60015.02CH                           |
| 0DD (DQ400)                                                                                         | 60206.02 | 60015.02CH                           |
| 0DD (DQ400)                                                                                         | 60206.03 | 60015.02CH                           |
| <b>ZF</b>                                                                                           |          |                                      |
| 5HP19; 5HP24; 4HP20                                                                                 | 60131.01 | 60131.01CH                           |
| 5HP19; 5HP24                                                                                        | 60131.02 | 60131.01CH                           |
| 5HP19                                                                                               | 60131.03 | 60131.01CH                           |
| 5HP19; 5HP24                                                                                        | 60133.01 | 60131.01CH                           |
| 6HP19; 6HP21; 6HP26; 6HP26A; 6HP26X; 6HP28; 6HP32                                                   | 60138.01 | 60015.02CH                           |
| 6HP19; 6HP21; 6HP26; 6HP26A; 6HP26X; 6HP28; 6HP32; 6HP32A                                           | 60138.02 | 60015.02CH                           |
| 8HP45 (845RE); 8HP50; 8HP55AF; 8HP70/75/90;<br>6HP28; 6HP26; 6HP21; VT2 CVT                         | 60188.01 | 60242.01CH<br>60015.02CH             |
| 8HP45 (AL450, OCM); 8HP70; 8HP75; 8HP90; VT2 CVT                                                    | 60242.01 | 60242.01CH                           |
| 6HP19; 6HP26; 6HP32; 6HP21; 6HP28; 6HP34; 8HP45 (AL450, OCM); 8HP70; 8HP75; 8HP90, 8HP95            | 60242.02 | 60015.02CH                           |
| 9HP28; 9HP48; 8HP50; 8HP55                                                                          | 60334.01 | 60015.02CH                           |

**VACUUM TESTER | VT 01.100**

The VT 01.100 vacuum tester allows you to detect places of increased leaks in a worn-out valve body for further repair.

Leaks occur due to wear of the spool/valve or the body in which it operates. Increased wear can be caused by the use of abrasive materials during the assembly of the hydraulic valve bodies (for example, sandpaper), time, the presence of chips in the working fluid of the automatic transmission.



Weight  
2,1 kg



Dimensions (LxWxH)  
210x150x105 mm

VT 01.100

**TOOL FOR 6DCT SOLENOIDS DISASSEMBLING | PRS 01.001**

PRS 01.001 with a hydraulic circuit is designed for disassembly and assembly of the solenoid core housing of the valve body of automatic transmissions 6DCT 450/470 series. The malfunction of the solenoid is determined during preliminary testing at the diagnostic stand.

The use of hydraulics allows you to disassemble big solenoids without damaging the core rod and sleeve and speed up the disassembly and assembly process.

A set of adapters is supplied with the device.



Weight  
12 kg



Dimensions (LxWxH)  
490x400x210 mm

PRS 01.001

**SOLENOID DISASSEMBLY TOOL KIT | SRT 01**

The SRT 01 kit is designed for disassembling and assembling linear solenoids of 5- and 6-speed automatic transmissions manufactured by Aisin Warner. It allows you to flare the solenoid without leaving damage to its body. During reassembly, it ensures alignment between the elements and gives a flaring quality close to the factory one.

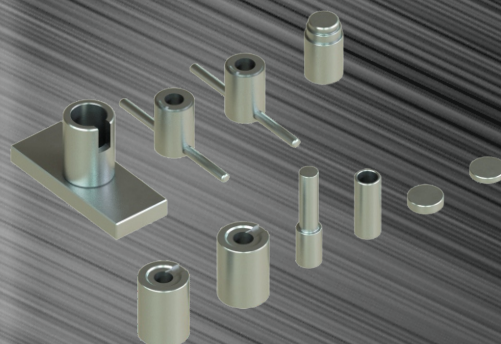
The kit allows you to repair the 1st generation solenoids with large coils from valve bodies of Aisin Warner gearboxes such as 55-50SN, TF-60SN, TF-80SC, TF-81SC, TR-60SN. This will help avoid replacing them, which will significantly reduce the cost of repairs.

After disassembling the solenoid, you can clean the moving parts of the solenoid from dirt, replace worn guide bushings, an overheated inductor and, if necessary, a thrust washer.

Used for the 1st generation linear solenoids with large coil of Aisin Warner transmissions' valve bodies:

- 55-51SN
- 55-50SN
- TF-60SN (09G, 09K, 09M)
- TF-80SC
- TF-81SC
- TR-60SN (09D)

SRT 01







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