

HAND TOOLS

389

Socket Sets & Tool Sets	389
Sockets	391
Bit Sockets, Bits & Accessories	394
Ratchets, Extension Bars, Adaptors & more	399
Spanners & Ratchet Wrenches	401
Screw Drivers & Key Sets	405
Hammers, Drills, Saws, Scissors, Cutters	407
Pliers, Special Pliers, Bolt Cutters	414

AUTOMOTIVE TOOLS

416

Oil Service	416	Special Sockets / Wrenches	434
Brake Service	416	Motor	435
Tire Service	421	Testing Sets	445
Body Repair	422	Special Pliers	449
Pry Bars	425	Lampen & Leuchten	451
Installing / Removal Tools	426	Pick-up-Tools / Mirrors	453
Scrapers	427	Jacks / Axle Stands	454
Pullers	427	Caulking / Grease Guns	454
Spring Compressors	429	Pipe / Tube Tools	455
Ball Joint Tools	429	Workshop Equipment	456
Spark Plug / Glow Plug	430	Air Tools	458
Special Applications	432	Auto Accessories	461

MISCELLANEOUS TOOLS & SMALL PARTS

463

Small Parts / Consumables	463
Electrician's Tools / Voltage Testers	465
Safety at Work	466
House, Garden & other	466

Alphabetical Index

471

Item Number Index

474

Visit www.bgstechnic.com for our Newsletter and New Items

All images, texts and graphic displays Copyright© BGS technic KG. Any use or reproduction only with written permission of BGS technic.
BGS technic®, Kraftmann® & ProTorque® are registered trademarks of BGS technic KG.
XZN®, Ribe® and Torx® are registered trademarks of the respective holders. BGS „T-Star“ system is compatible with Torx fixing systems.
All items displayed in this catalog, especially product composition and layout, can change due to constant development and are non-binding.
Please visit www.bgstechnic.com to see the latest news and updates about all products.
BGS technic KG, POB 1450, 42907 Wermelskirchen; HR Köln 15916; Domicile Wermelskirchen



BGS technic® GERMANY in a new perfection

Since the first production in 1970, the BGS technic brand stands for fine quality and enjoys a perfect reputation among its customers in Germany and Europe.

The BGS technic brand stands for premium, long-lasting hand and compressed air tools in everyday body shop use.

Our overall aim is to offer all products and innovations at the very best value for money for the benefit of our customers.

Far more than 2,000 hand and compressed air tools and many novelties are available in the well known PRO and PRO+ execution.

All products are supplied directly from our warehouse in an appealing and self-explanatory sales packaging.



PRO

Good quality for every day use at an optimal cost.

PRO +

Exceptional quality for high durability in day-to-day workshop use.



Items marked with this icon are supplied in a „ready-to-be-sold“ packaging.

ZOLL/SAE

Tools in inch sizes.

Our new entry-level brand **KRAFTMANN®** carries all DIY items and offers especially attractive value for money. **KRAFTMANN®** is the new brand for all DIY tools. Self-explanatory packaging guaranteed high sales. When it comes to product safety, we apply the same quality requirements as for all our other tools. The **KRAFTMANN®** product range is constantly expanded by new and innovative items for hobby, DIY, car and bicycle.



92-piece Socket Set, 1/4" + 3/8"

- all parts manufactured from **chrome vanadium steel**
- sockets in Pro Torque® finish
- 2 fine 72 tooth ratchets 1/4" + 1/2"
- short sockets, 1/4" drive: 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 mm
- deep sockets, 1/4" drive: 6, 7, 8, 10, 13 mm
- 1 bit adaptor 1/4"
- 1 spinner handle 1/4"
- 1 universal joint 1/4"
- 1 extension bar with external hexagon, 1/4"
- 1 sliding t-handle with adaptor, 1/4"
- short sockets, 3/8" drive:
- 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24 mm
- deep sockets, 3/8" drive:: 15, 17, 19, 22 mm
- 1 bit adaptor 3/8"
- 1 universal joint 3/8"
- 1 extension bar 3/8"
- **3 spark plug sockets:** 16, 18, 21 mm
- 29 pc bit assortment in slot, cross slot, PZ, Internal Hexagon, T Star
- **9 pc Combination Spanner Set:**
- 6, 8, 10, 11, 13, 14, 17, 19, 22 mm
- internal hexagon keys: 2, 2.5, 3, 4, 5, 6, 7, 8, 10 mm
- 1 adaptor 1/4" auf 3/8"

Item #
2289



92-piece Socket Set, 1/4" + 3/8", in INCH

- all parts manufactured from **chrome vanadium steel**
- sockets in Pro Torque® finish
- 2 fine 72 tooth ratchets 1/4" + 1/2"
- short sockets, 1/4" drive:
- 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2"
- deep sockets, 1/4" drive: 1/4", 5/16", 3/8", 7/16", 1/2"
- 1 bit adaptor 1/4"
- 1 spinner handle 1/4"
- 1 universal joint 1/4"
- 1 extension bar with external hexagon 1/4"
- 1 sliding t-handle with adaptor 1/4"
- short sockets, 3/8" drive:
- 1/2", 9/16", 19/32", 5/8", 11/16", 3/4", 25/32",
- 13/16", 7/8", 15/16", 1"
- deep sockets, 3/8" drive:: 9/16", 5/8", 11/16", 3/4"
- 1 bit adaptor 3/8"
- 1 universal joint 3/8"
- 1 extension bar 3/8"
- **3 spark plug sockets:** 5/8", 3/4", 13/16"
- 29 pc bit assortment in slot, cross slot, PZ, Internal Hexagon, T Star
- **9 pc Combination Spanner Set:**
- 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"
- internal hexagon keys: 1/16", 5/64", 3/32",
- 1/8", 5/32", 3/16", 1/4", 5/16", 3/8"
- 1 adaptor 1/4" auf 3/8"

Item #
2299



27-piece Socket Set, 1/4"

- chrome vanadium steel
- 1/4" reversible ratchet
- 12 Pro Torque® sockets, 1/4" drive:
 - 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
- 14 bit sockets, 1/4" drive:
 - TX 10 - 15 - 20 - 25 - 30, cross PH 1 - 2
 - slot 4 - 5,5 - 7 mm, Internal Hexagon 3 - 4 - 5 - 6 mm

On plastic carrying rail.

Item #
15105



19-piece Socket Set, 1/2"

- chrome vanadium steel
- 1/2" reversible ratchet
- 18 Pro Torque® sockets, 1/2" drive:
 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 19 - 21 - 22 - 23 - 24 - 27 - 30 - 32 mm

On plastic carrying rail.

Item #
15110



50-piece Go-Through Socket Set 1/4"-3/8"-1/2"

- chrome vanadium steel
- chrome plated
- go-through sockets allow working through long bolts/ thread bars
- Gear Lock sockets:
 - (fits hexagon, double hexagon, inch, metric and E-type)
 - 13 mm drive:** 4.5 mm, 5 mm, 5.5 mm, 6 mm, 6.5 mm, 7 mm, 8 mm, 9 mm, 10 mm, 11mm, 12 mm, 13 mm
 - 19 mm drive:** 10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 14 mm, 15 mm, 16 mm, 17 mm, 18 mm, 19 mm
 - 22 mm drive:** 20 mm, 21 mm, 22 mm, 23 mm, 24 mm, 27 mm, 30 mm, 32 mm
- 3 fine 72 tooth ratchets (1/4"-3/8"-1/2") for special sockets (13-19-22 mm drive)
- 3 go-through and 3 standard extension bars
- 3 external square adapters for regular sockets

Item #
2183



11 piece Torque Wrench Set, 40-210 Nm

- chrome vanadium steel
- 1/2" drive ratchet head
- 9 open end wrenches 13-14-15-17-19-22-24-27-30 mm
- Calibration certificate included

Item #
958



21-piece SAE Socket Set, 3/4"

- all parts manufactured from **chrome vanadium steel**
- hardness and torque in accordance with DIN
- **12-point** sockets
7/8", 15/16", 1", 1 1/16", 1 1/8", 1 3/16", 1 1/4", 1 5/16",
1 3/8", 1 7/16", 1 1/2", 1 5/8", 1 3/4", 1 13/16", 1 7/8", 2"
- 1 reversible ratchet 500 mm with quick release button, black finish head
- 3 extension bars 100 - 200 - 400 mm
- 1 sliding tee bar 450 mm



Item #
1107



127-piece Professionell Tool Kit, Aluminium Case

- one complete set for all kinds applications in your house, garden and garage
- heavy duty lockable aluminium case with excessive assortment of tools and parts:
 - various pliers (combination pliers, side cutter, water pump pliers etc.)
 - hammer
 - wrenches & spanners
 - sockets 1/4" + 1/2"
 - spark plug sockets
 - ratchet with adaptors
 - screw drivers
 - bit assortment, int. hexagon keys
 - water level
 - saw
 - torch
 - vernier caliper
 - measuring tape
 - and many more ...



Item #
15500



11-piece Deep Socket Set, 1/4", in INCH

- **chrome vanadium steel**
- **Pro Torque®** finish, extra deep
- 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 13/32", 7/16", 15/32", 1/2"
- satin chrome plated



Item #
2429



11-piece Deep Socket Set, 3/8", in INCH

- chrome vanadium steel
- Pro Torque® finish
- 5/16", 1/32", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"
- satin chrome plated

Item #
2756



6-piece Special Twist Socket Set, 2-10 mm, 3/8"

- chrome molybdenum steel
- 2-3-4-6-8-10 mm
- black bronzed surface
- for loosening damaged screws and nuts
- suitable for impact wrenches
- the innovative spiral profile digs itself into the head of a damaged screw/nut and thereby allows to loosen it securely

Item #
5281



10-piece Special Twist Socket Set, 9-19 mm, 3/8"

- for loosening damaged screws and nuts
- the innovative spiral profile digs itself into the head of a damaged screw/nut and thereby allows to loosen it securely
- sizes: 9-10-11-12-13-14-15-16-17-19 mm
- additional outer hexagon shaft

In aluminium case

Item #
20210



5-piece 1/2" Special Twist Socket Set, 150 mm long

- all parts manufactured from chrome molybdenum steel
- black bronzed surface
- for loosening damaged screws and nuts
- suitable for impact screwdrivers
- the innovative spiral profile digs itself into the head of a damaged screw/nut and thereby allows to loosen it securely
- sizes: 17 - 19 - 21 - 22 mm, incl. tommy bar

Item #
5262



10-piece Deep Socket Set, 1/2", in INCH

- all parts manufactured from chrome vanadium steel
- Pro Torque® finish
- 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16"
- satin chrome plated

Item #
2435



1/2" Impact Sockets, 12-point

- especially for drive shafts
- **chrome molybdenum steel**
- length: 78 mm
- see Main Catalog (p. 34) for more sizes

PRO +

Item #	Description
5343	1/2" Impact Socket, 12-point, 24 mm
5344	1/2" Impact Socket, 12-point, 38 mm



5-piece Special Twist Socket Set, 8-16 mm, 1/2"

- **chrome molybdenum steel**
- 8-10-12-14-16 mm
- black bronzed surface
- for loosening damaged screws and nuts
- suitable for impact wrenches
- the innovative spiral profile digs itself into the head of a damaged screw/nut and thereby allows to loosen it securely

Item #
5261

PRO +



3/4" Socket, 44 mm

- **chrome vanadium steel**
- especially for Citroen drive shafts

Item #
3444

PRO +



26-piece Bit and Socket Angle Screwdriver Set

- bits made from **chrome vanadium steel**
- for manual use
- 15 bits 1/4":
 - slot 4-5-6 mm, PH 1-2-3, PZ 1-2-3
 - internal hexagon 3-4-5 mm, T 15-20-25
- 1 bit adaptor
- 9 sockets:
 - 5-6-7-8-9-10-11-12-13 mm

Item #
20802



Demonstration Bar for Gear Lock Sockets

- helps to present the multi-purpose Gear Lock socket to your customers
- includes Gear Lock socket (19 mm) that perfectly fits all installed screw types: 6-point, 12-point, E-type, inch sizes, square, Ribe, Spline and even damaged screws

Item #
56



XXL T-STAR Bits, 100 mm long, 22 mm hex.

- chrome molybdenum steel, black finish
- for use with air tools



Item #	Description
5246-T60	T-STAR Bit, not tamperproof, 100 mm long, T60, 22 mm hex.
5246-T70	T-STAR Bit, not tamperproof, 100 mm long, T70, 22 mm hex.
5246-T80	T-STAR Bit, not tamperproof, 100 mm long, T80, 22 mm hex.



71-piece Color-Bit-Set

- chrome vanadium S2 steel
- intelligent color guide: one color for each profile
- 60 bits, 25 mm long:
 - 3x slot 4 mm, 3x Slot 6 mm
 - 3x PH 1, 6x PH 2, 3x PH 3
 - 3x PZ 1, 6x PZ 2, 3x PZ 3
 - 3x 4 mm, 3x 5 mm, 3x 6 mm Internal Hexagon
 - 3x T10, 3x T15, 3x T20, 3x T25, 3x T27, 3x T30, 3x T40
- 9 bits, 75 mm long:
 - slot 4 mm, slot 6 mm
 - PH 1, PH 2, PH 3
 - PZ 1, PZ 2
 - T20, T25
- 1 bit holder with quick chuck
- 1 bit holder with magnet

Item #
4815



32-piece Color-Bit-Set

- chrome vanadium S2 steel
- intelligent color guide: one color for each profile
- 30 bits, 25 mm long:
 - slot 3-4-5-6 mm
 - PH 1-2-2-3
 - PZ 1-2-2-3
 - Internal Hexagon 3-4-5-6 mm
 - T 10-15-20-25-27-30-40
 - T 10-15-20-25-27-30-40 (tamperproof)
- 1 bit adapter
- 1 quick chuck bit holder

Item #
4816



25-piece Color-Bit-Set

- chrome vanadium S2 steel
- intelligent color guide:
one color for each profile
- 24 bits, 25 mm long:
slot 2 - 4 - 4,5 - 5 - 5,5 - 6 mm
PH 1, 2x PH 2, PH 3
PZ 1, 2x PZ 2, PZ 3
Internal Hexagon 3 - 4 - 5 - 6 mm
T10-15-20-25-27-30
- 1 bit holder with quick release

On magnetic display.

Item #
4825



122 piece Universal Bit Set

- chrome vanadium steel
- 200 mm spinner handle with anti slip handle
- 121 bits and accessories make this set
all purpose

Item #
20100



24-piece Bit Set with Double Ratcheting Spanner

- all parts made from chrome vanadium steel
 - special nickel plated bits
- 1x double ratchet wrench 8x10 mm
 3x cross slot bits: #1,#2,#3
 2x hex bits: 4,5 mm
 8x T-Star bits: T8,T10,T15,T20,T25,T30,T40,T45
 6x T-Star bits (tamperproof): T15,T20,T25,T30,T40,T45
 4x spline bits: 5,6,8,10

Item #
2251



37-piece Bit Set with Double Ratcheting Spanner

- all parts made from **chrome vanadium steel**
- **special nickel plated bits**

1x double ratchet wrench 8x10 mm
 4x cross slot bits: #0,#1,#2,#3
 3x plain slot bits: 4, 5.5, 6.5 mm
 7x hex bits: 3,4,5,6,7,8,10 mm
 9x T-Star bits: T8,T10,T15,T20,T25,T27,T30,T40,T45
 6x T-Star bits (tamperproof): T15,T20,T25,T30,T40,T45
 5x spline bits: 4,5,6,8,10
 2x pozi bits: #1,#2

Item #
2250



33-piece Precision Bit Set

- **chrome vanadium steel**
- 30 precision bits in following sizes:
 9x T-Star bits T4 - T20
 8x Internal Hexagon bits: 0,7 - 4,0 mm
 7x slot bits 1,0 - 4,0 mm
 4x cross slot bits PH 000 - 00 - 0 - 1
 2x Pozi bits PZ 0 - 1
- handle, extendable from 125-175 mm

Item #
20803



10-piece Angle Nut Runner Set

- **chrome vanadium steel**
- adjustable angle nut runner
- 6 bits: PH 1+2, PZ 1+2, Schlitz 5+6 mm
- 1 bit adaptor 1/4"
- 2 sockets 8+10 mm

Item #
20801



11-piece Bit Assortment with bendable Mandrel

- bits made from **chrome vanadium steel**
- to be used with drill machine
- bendible mandrel, 300 mm, 1/4" Antrieb
- 6 bits 50 mm long:
 slot 4,5 + 7 mm, PH 1+2, PZ 1+2
- 4 bits 75 mm long:
 PH 1+2, PZ 1+2

Item #
20804



Angled Screwdriver with 7 Double Ended Bits

- angled screwdriver for 1/4" bits
- 7 double ended bits **made from chrome vanadium steel**:
PZ 1-2-3, PH 1-2-3
slot 4-5-6 mm
Internal Hexagon 4-5-6 mm
TX 15, TX 20

In belt holder

Item #
20805



13-piece Damaged Screw Extractor Set

- **chrome vanadium S2 steel**
- 6 left threaded screw extractors
 - 3x conical from 3-14 mm
 - 3x cylindric 2-3, 2-4, 2 mm
- 6 bits: PH 1+2, PZ 1+2, slot 4+5 mm
- 1 quick release bit holder

Item #
5280



Bit Holder with flexible Shaft

- for 1/4" bits
- 100 mm length
- quick release
- head bends +/- 15°

Item #
1725



Flexible Angle Bit Holder Extension, 310 mm

- 1/4" drive, for 1/4" bits
- with angle bit holder
- with guide-holder, adjustable

Item #
4845



Angeled Bit Holder

- 1/4" hex drive
- special short construction (only 37 mm) height
for hard-to-reach areas
- quick release function

Item #
4846



Adaptor 3/8" Square x 5/16" Hexagon, 30 mm

Item #
2229-1



T-Handle, 1/4" Square, 180 mm Length

- shaft made from **chrome vanadium steel**

Item #
7800



Impact Bit Sockets, Spline

- **chrome molybdenum steel, black finish**



Item #	Description
5380-M16	Impact Bit Socket Spline M16x78 mm, 1/2"
5380-M18	Impact Bit Socket Spline M18x78 mm, 1/2"



9-piece 1/2" Special Cylinder Head Bit Socket Set

- **chrome vanadium S2 steel**, sizes (1/2" drive):
- 9 bit sockets, 1/2" drive, see table for exact sizes
- **black finish bits**



Item #	Description
5014	9-piece 1/2" Special Cylinder Head Screw Bit Socket Set
5004	Bit Socket, 1/2", T Star 55x140 mm
5003	Bit Socket, 1/2", T Star 70x120 mm
5005	Bit Socket, 1/2", E 12x140 mm
5009	Bit Socket, 1/2", XZN 10x140 mm
5002	Bit Socket, 1/2", XZN 12x140 mm
5001	Bit Socket, 1/2", Ribe 10x165 mm
5010	Bit Socket, 1/2", Ribe 12x120 mm
5007	Bit Socket, 1/2", Ribe 13x120 mm
5008	Bit Socket, 1/2", Ribe 14x120 mm



1/2" Bit Socket, Spline Sockets (XZN), 100 mm, tamperproof, M18

- **chrome vanadium steel**
- 100 mm long

Item #
4365



Stubby Ratchet Set, 1/4"-3/8"-1/2"

- chrome vanadium steel
- extra small size, for narrow and tight spaces
- fine 72 tooth

In metal case

Item #
215



Extendable Ratchets

- chrome vanadium steel
- fine 72 tooth
- adjustable in 6 positions
- with quick release button



Item #	Description
25101	Extendable Ratchet, 1/4", 190-250 mm
25102	Extendable Ratchet, 1/2", 305-445 mm



Scaffolding Ratchets

- chrome vanadium steel
- reversible
- forged shaft



Item #	Description
308	Scaffolding Ratchet 17x19 mm
309	Scaffolding Ratchet 17x21 mm
310	Scaffolding Ratchet 19x22 mm
311	Scaffolding Ratchet 19x24 mm
305	Scaffolding Ratchet 24x30 mm
306	Scaffolding Ratchet 27x32 mm
307	Scaffolding Ratchet 36x41 mm



1/4" Extension Bar, 500 mm

- chrome vanadium steel
- satin chrome plated

Item #
2211



Extendable Extension Bars

- chrome vanadium steel
- can quickly be adjusted to the size needed



Item #	Description
25310	Extendable Extension Bar, 1/4", 180-300 mm
25311	Extendable Extension Bar, 3/8", 230-380 mm
25312	Extendable Extension Bar, 1/2", 250-400 mm



Magnetic Extension Bar Set 1/4"-3/8"-1/2"

- chrome vanadium steel
- holds screws and nuts in the socket after loosening



Flexible Handle with Ratchet Head, 620 mm, 1/2"

- chrome vanadium steel
- length: 620 mm



1/2" Swivel Joint Handle, extendable, 450-600 mm

- chrome vanadium steel
- satin chrome plated, black finish head



3/4" Impact Ball Joint

- chrome molybdenum steel
- black finish
- 3/4" int. x 3/4" ext.



Combination Spanners, Special Sizes

- chrome vanadium steel
- chrome plated
- in accordance with DIN 3113A



Item #	Description
1070	Combination Spanner, 20 mm
1075	Combination Spanner, 25 mm
1076	Combination Spanner, 26 mm



Combination Spanners, Deep Offset Ring

- chrome vanadium steel
- deep offset ring end
- satin chrome plated, ring and open end polished
- according to DIN 3113 ISO 3318, Form B



Item #	Description
30106	Combination Spanner, Offset Ring, 6 mm
30107	Combination Spanner, Offset Ring, 7 mm
30108	Combination Spanner, Offset Ring, 8 mm
30109	Combination Spanner, Offset Ring, 9 mm
30110	Combination Spanner, Offset Ring, 10 mm
30111	Combination Spanner, Offset Ring, 11 mm
30112	Combination Spanner, Offset Ring, 12 mm
30113	Combination Spanner, Offset Ring, 13 mm
30114	Combination Spanner, Offset Ring, 14 mm
30115	Combination Spanner, Offset Ring, 15 mm
30116	Combination Spanner, Offset Ring, 16 mm
30117	Combination Spanner, Offset Ring, 17 mm
30118	Combination Spanner, Offset Ring, 18 mm
30119	Combination Spanner, Offset Ring, 19 mm
30120	Combination Spanner, Offset Ring, 20 mm
30121	Combination Spanner, Offset Ring, 21 mm
30122	Combination Spanner, Offset Ring, 22 mm
30123	Combination Spanner, Offset Ring, 23 mm
30124	Combination Spanner, Offset Ring, 24 mm
30125	Combination Spanner, Offset Ring, 25 mm
30126	Combination Spanner, Offset Ring, 26 mm
30127	Combination Spanner, Offset Ring, 27 mm
30128	Combination Spanner, Offset Ring, 28 mm
30129	Combination Spanner, Offset Ring, 29 mm
30130	Combination Spanner, Offset Ring, 30 mm
30132	Combination Spanner, Offset Ring, 32 mm
30134	Combination Spanner, Offset Ring, 34 mm
30136	Combination Spanner, Offset Ring, 36 mm



Double Ring Spanners, 75° offset

- chrome vanadium steel
- ring ends deep offset type
- satin chrome plated, ring ends polished
- according to DIN 838



Item #	Description
30206	Double Ring Spanner, 75° offset, 6x7 mm
30208	Double Ring Spanner, 75° offset, 8x9 mm
30210	Double Ring Spanner, 75° offset, 10x11 mm
30212	Double Ring Spanner, 75° offset, 12x13 mm
30214	Double Ring Spanner, 75° offset, 14x15 mm
30216	Double Ring Spanner, 75° offset, 16x17 mm
30218	Double Ring Spanner, 75° offset, 18x19 mm
30220	Double Ring Spanner, 75° offset, 20x22 mm
30221	Double Ring Spanner, 75° offset, 21x23 mm
30224	Double Ring Spanner, 75° offset, 24x27 mm
30230	Double Ring Spanner, 75° offset, 30x32 mm
30236	Double Ring Spanner, 75° offset, 36x41 mm



12-piece Combination Spanner Set, Offset Ring, 6-22 mm

- chrome vanadium steel
- 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 - 19 - 22 mm
- deep offset ring ends
- satin chrome plated, ring and open end polished
- according to DIN 3113 ISO 3318, Form B

Packed in a tetron wallet



Item #	
30301	PRO+ TUV GS

17-piece Combination Spanner Set, Offset Ring, 8-27 mm

- chrome vanadium steel
- 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 mm
- deep offset ring ends
- satin chrome plated, ring and open end polished
- according to DIN 3113 ISO 3318, Form B

Packed in a tetron wallet



Item #	
30302	PRO+ TUV GS

6-piece Double Ring Spanner Set, 75° offset, SAE sizes, 1/4"-3/4"

- chrome vanadium steel
- 1/4" x 5/16", 3/8" x 7/16", 1/2" x 9/16", 9/16" x 5/8", 19/32" x 11/16", 11/16" x 3/4"
- ring ends deep offset type
- satin chrome plated, ring ends polished
- according to DIN 838

Packed in a tetron wallet

Item #	PRO +	ZOLL/SAE	TUV	GS
32105				



12-piece Double Ring Spanner Set, 75° offset, 6-32 mm

- chrome vanadium steel
- ring ends deep offset type
- satin chrome plated, ring ends polished
- according to DIN 838

Packed in a tetron wallet

Item #	PRO +	TUV	GS
30200			



14-piece XXL Combination Spanner Set, extra long, 21-32 mm

- chrome vanadium steel
- chrome plated and mirror polished
- extra long, following sizes: 21 mm (300 mm long), 22 mm (310 mm), 24 mm (335 mm), 27 mm (355 mm), 30 mm (420 mm), 32 mm (435 mm)
- hardness and torque exceed DIN

Packed in a tetron wallet

Item #	PRO +
1229	



14-piece Combination Spanner Set, extra long, 6-19 mm

- chrome vanadium steel
- chrome plated and mirror polished
- extra long in following sizes:
6 mm (125 mm long), 7 mm (135 mm), 8 mm (145 mm),
9 mm (155 mm), 10 mm (170 mm), 11 mm (180 mm),
12 mm (195 mm), 13 mm (205 mm), 14 mm (220 mm),
15 mm (230 mm), 16 mm (240 mm), 17 mm (255 mm),
18 mm (265 mm), 19 mm (280 mm)
- hardness and torque exceed DIN

Packed in a tetron wallet

Item #
1228

PRO +



11-piece L-Type Socket Wrench Set, 6-22 mm

- chrome vanadium steel
- both ends with hexagon sockets
- each size with a straight and an offset end
- 6-7-8-10-11-12-13-14-17-19-22 mm

Item #
1178

PRO



8-piece WHITWORTH Combination Spanner Set

- chrome vanadium steel
- mirror polished
- sizes: 1/8" WW, 3/16" WW, 1/4" WW, 5/16" WW,
3/8" WW, 7/16" WW, 1/2" WW, 9/16" WW
- especially for UK vintage cars and tractors

Packed in a tetron wallet

Item #
1199

PRO +



8-piece Double Ring Spanner Set with flexible Heads

- chrome vanadium steel
- 12 point sockets
- sizes: 8x9, 10x11, 12x13, 14x15, 16x17, 18x19 mm

Packed in a tetron wallet

Item #
1201

PRO +



4-piece Flare Nut Spanner Set, 15° Offset, Inch

- chrome vanadium steel
- satin chrome finish
- 5/16" x 3/8", 7/16" x 1/2", 9/16" x 5/8", 11/16" x 3/4"
- for brake line screws

Packed in a tetron wallet

Item #
1782

PRO +

ZOLL/SAE



4-piece Line Wrench / Brake Pipe Wrench Set with Ratcheting Function

- sizes: 8x9 mm (125 mm long), 10x11 mm (160 mm long), 12x13 mm (180 mm long), 14x15 mm (210 mm long)
- brand new item, ring ends with **ratcheting function**
- one side with straight and one with flexible ring end
- **rings can be opened to fit around a pipe**
- an internal spring ensures the ring closes securely around the nut
- the more pressure you put on the tools in the driving direction, the tighter the head closes around the nut; this prevents slipping over the nut
- wrench holds the long side of the nut, so it works also on nuts with damaged corners

Item #
1785

PRO +



6-piece Electrician's Screwdriver Set

- 2 component handles with hanging holes
- insulated blades
- 3x slot: 100x4,0x0,8 mm - 125x5,5x1,0 mm - 150x6,5x1,2 mm
- 2 cross: PH 0x75 mm, PH 1x100 mm
- 1 Voltage Tester, 60 mm 200-250 V
- in accordance with: DIN ISO 8764-1:2006, DIN ISO 8764-2:2006, DIN ISO 2380-1:2006, DIN ISO 2380-2:2006, 200-250 V DIN VDE 0680 part 6/04.77

Item #
35806



8-piece Screw Extractor Set

- for screw sizes:
M3-6, M6-8, M8-11, M11-14,
M14-18, M18-25, M25-35, M35

Item #
1897



9-piece Internal Hexagon Key Set

- chrome vanadium S2 steel
- 1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm
- anti slip color coding
- extra long
- long end with strong magnet
- with belt clip

Item #
35100



9-piece T-Star Key Set

- chrome vanadium S2 steel
- T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50
- short end is tamperproof
- anti slip color coding
- extra long
- long end with strong magnet
- with belt clip

Item #
35105



9-piece Internal Hexagon Twist Key Set

- chrom vanadium steel
- 1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm
- both ends bent 90° in opposite angles, thus
allowing to work in tight space conditions
- extra short ends
- extra long body
- anti-slip coating

Item #
35120



Machinist's Hammers, DIN 1041, Hickory Handle

- high quality hammer for perfect working safety:
- shock-resistant hickory handle
- protection metal sleeve, safety pin
- round ring wedge
- forged hammer head
- made in accordance with DIN 1041, TÜV approved



Item #	Description
52302	Machinist's Hammer, 200 g, DIN 1041, Hickory Handle
52303	Machinist's Hammer, 300 g, DIN 1041, Hickory Handle
52304	Machinist's Hammer, 400 g, DIN 1041, Hickory Handle
52305	Machinist's Hammer, 500 g, DIN 1041, Hickory Handle
52308	Machinist's Hammer, 800 g, DIN 1041, Hickory Handle
52310	Machinist's Hammer, 1000 g, DIN 1041, Hickory Handle
52315	Machinist's Hammer, 1500 g, DIN 1041, Hickory Handle
52320	Machinist's Hammer, 2000 g, DIN 1041, Hickory Handle



Fibreglass Shaft Machinist's Hammers

- black lacquered, forged head
- according to DIN 1041



Item #	Description
3850	Fibreglass Shaft Machinist's Hammer, 100 g
3852	Fibreglass Shaft Machinist's Hammer, 300 g
3854	Fibreglass Shaft Machinist's Hammer, 500 g
3855	Fibreglass Shaft Machinist's Hammer, 800 g
3856	Fibreglass Shaft Machinist's Hammer, 1000 g
3857	Fibreglass Shaft Machinist's Hammer, 1500 g
3858	Fibreglass Shaft Machinist's Hammer, 2000 g



Stoning Hammer, 1000 g

- forged
- black lacquered head
- ergonomically shaped ash tree shaft
- with metal wedge



Stoning Hammer, 200 g, DIN 1041, Hickory Handle

- high quality hammer for perfect working safety:
- shock-resistant hickory handle
- protection metal sleeve
- safety pin
- round ring wedge
- forged hammer head
- made in accordance with DIN 6475, TÜV approved



170-piece HSS Twist Drill Sets

- drills manufactured in accordance with DIN 338
- fully ground drills
- 1.0-8.0 mm (in 0.5mm steps) : 10 piece each
- 8.5-10.0 mm (in 0,5mm steps): 5 piece each

In metal case (as displayed)



PRO +

Item #	Description
1999	170-piece Twist Drill Set, HSS, HSS 9341
2000	170-piece Twist Drill Set, HSS, 5% Cobalt Coated

5-piece SDS Drill Bit Set, 600 mm

- with SDS shaft
- carbide tipped
- 8 mm, 10 mm, 12 mm, 16 mm, 20 mm



Item #
2016

PRO +



10-piece Titanium Coated HSS Drill Set

- 1/4" hexagon shaft
- 1,5 - 2,0 - 2,5 - 3,0 - 3,2 - 3,5 - 4,0 - 4,5 - 5,0 - 6,0 mm

In plastic holder



Item #
50801



6-piece Wood Crown and Milling Drill Set, 4-12 mm

- 5 cutting-crown head with center tip
- 4 super-sharp shoulder blades
- special spiral profile, extreme sharp milling cutter
- fast chip removal
- for exact tapping & milling, rotation file and hole saw
- sizes: 4-6-8-10-12 mm and 12 mm countersink



Item #
50401

PRO +

13-piece Center Bit + Wood Drill Set

- Ø 3-4-5-6-7-8-9-10-11-12-13 mm
- 3-piece center bit:
adjustable from 15 - 25 mm and 25 - 45 mm
- drills holes from 3-45 mm
- all drills with centering tip

Item #
50403



3-piece HSS Step Drill Set, 3-20 mm

- titanium coated
- 1/4" drive
- size 1: 3-12 mm, 1 mm steps
- size 2: 6-20 mm, 2 mm steps
- size 3: 4-12 mm, 2 mm steps

With storing pouch

Item #
1616



4-piece HSS-G Multi Drill Bit Set, Cobalt coated

- step drill 4-12 mm
- hole cutter 8-20 mm
- drill saw 6x90 mm
- countersink 12,4 mm

In metal case

Item #
1944



Angle Drill Attachment with Keyless Chuck

- heavy duty finish
- ideal for drilling around corners
- ball bearing shaft support
- suitable for drilling and screwing
- 8 mm hexagon shaft drive

Item #
4847



7-piece Multi Purpose Drill Set

- 10 mm keyless chuck 90° angled drill attachment
- 1200 mm flexible drive shaft with 10 mm keyed chuck
- 150 mm hex drive extension, with quick release chuck
- 150 mm flexible extension
- magnetic bit holder
- countersink
- chuck key

In aluminium case



Item #
7992

PRO

Automatic Center Punch, 15-25 kg

- heavy duty finish
- continuously adjustable

Item #
2085

PRO +

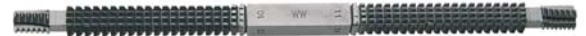


Internal & External Thread Restorer File

- chrome vanadium steel
- Whitworth sizes: 10-11-12-14-16-18-20-24

Item #
1929

PRO +



130-piece Thread Repair Kits

- 5 HSS-G-taps
 - 5 HSS-G-twist drills
 - 5 special installation tools
 - 5 tang breakers
 - 110 thread inserts
- item 1950:
each 25 pieces: M5x0.80, M6x1.00, M8x1.25, M10x1.50
10 pieces: M12x1.75
- item 1951:
each 25 pieces: M6x1.00, M8x1.25, M14x1.25
20 pieces: M10x1.5
15 pieces: M12x1.75

In strong metalwork-case

PRO +



Item #	Description
1950	130-piece Thread Repair Kit, M5-M12
1951	130-piece Thread Repair Kit, M6-M14

Thread Repair Kits

- HSS-G-taps
- HSS-G-twist drills
- special installation tool
- tang breakers
- thread inserts

In strong metalwork-case



Item #	Description
1952	29-piece Thread Repair Kit, M5x0.8
1953	29-piece Thread Repair Kit, M6x1.0
1954	29-piece Thread Repair Kit, M8x1.25
1955	29-piece Thread Repair Kit, M10x1.5
1956	14-piece Thread Repair Kit, M12x1.75
1957	14-piece Thread Repair Kit, M14x1.25



Thread Repair Inserts

- spare parts for Art. 1950-1957



Item #	Description
1959-1	25 Thread Repair Inserts, M5x0.8
1959-2	25 Thread Repair Inserts, M6x1.0
1959-3	25 Thread Repair Inserts, M8x1.25
1959-4	25 Thread Repair Inserts, M10x1.5
1959-5	10 Thread Repair Inserts, M12x1.75
1959-6	10 Thread Repair Inserts, M14x1.25



9-piece Thread Repair Set

- thread chasers are designed to repair and recondition threads on gas and liquid fittings in air conditioning, hydraulic and gas applications. Each chaser is clearly marked and can also be used to properly identify thread sizes
- for cleaning and rethreading of inside and outside threads
- use Tommy Bar (included) or socket for easy operation
- contains following sizes:
M14x1,5 - M16x1,5 - M18x1,5 - M20x1,5 - M22x1,5 - M24x1,5 - M27x2,0 - M28 x 1,5

Item #
65110



3-piece Hole Saw Set

- saw-Ø 60-67-74 mm
- hardened toothing
- maximum cutting depth 30 mm
- für wood, chipboard, plasterboard, etc.

Item #
50300



Chain Saw Sharpener

- for use with an electric drill with european standard collar of 43 mm
- for chains of any length
- simple operation
- includes one disc 100x3,2x10 mm (Art. 3177) for chain sizes 1/4", 0,325" und 3/8"



Item #	Description
3180	Chain Saw Sharpener
3177	Grinding Disc 100x3,2x10 mm (1/4", 0,325" and 3/8") for Art. 3180
3178	Grinding Disc 100x4,5x10 mm (3/8"+0,404") for Art. 3180



Surveyors Tape, 50 m

- 12 mm wide tape
- with blue cross frame and retractable winding handle
- dust and weather resistant

Item #
2159



4-piece Mini Spring Clamp Set, 50 mm

- multi-purpose: for hobby, garages, office etc.

Item #
59804



Stainless Steel Multi Purpose Scissors, 180 mm

- heavy-duty stainless steel blades
- slip guard handles with soft grips for comfort
- with spring and security lock
- saw-type blade
- with wire-stripping gap

Item #
7962



Stainless Steel Electrician's Scissors, 145 mm

- heavy duty stainless steel blades
- slip guard handles with soft grips for comfort
- saw-type blade
- with wire-stripping gap

Item #
7963



10-piece Sandpaper Set, 230x280 mm

- grain size 60-80-100-150-240 (each 2 pcs.)

Item #
80810



12-piece Needle File Set

- file length 140 mm
- in plastic case
- different shapes:
round, square, triangle, halfround, flat, knife etc.

Item #
50200



12-piece Chisel Set

- high quality steel
- different tip shapes for all applications
- for easy and professional working
- handles made from high quality wood

In wooden box

Item #
52712

PRO +



14-piece Polishing Heads Assortment, 1/4" shaft

- 6 mushroom shaped polishing heads, 2x 50 mm-75 mm-100 mm:
ideal for polishing surfaces face down onto work
- 4 taper shape polishing heads 2x 53 mm and 2x63 mm:
ideal for polishing the inside of cups, domes, bowls and goblets
- 4 drum shape polishing heads 2x45 mm and 2x63 mm:
ideal for polishing awkward areas and inside goblets and bowls
- made of fine cotton
- ideal for polishing metal and non-metal workpieces

Item #
3995

PRO +



7-piece Polish Sets for hard or soft Metals

- complete kit to remove scratches and polish metals
- available for soft and hard metals:
3990: for soft metals, e.g. brass, copper, tin, pewter, aluminium
3991: for hard metals, e.g. steel, iron, stainless steel
- with 3 buffing pads
3990: 1x firm, 2x medium / 3991: 2x firm, 1x medium
- with drill chuck arbor
- with 3 polishing pastes

PRO

Item #	Description
3990	7-piece Polish Set for soft Metals
3991	7-piece Polish Set for hard Metals



Hole Punch and Eyelet Pliers, 5 mm, incl. Eyelet Assortment, 180 mm

- heavy duty finish
- for eyelets with internal diameter 5 mm (100 pcs. included)

Item #
569

PRO



Box Joint Waterpump Pliers

- forged from **chrome-vanadium-steel**
- professional heavy duty quality
- in accordance with DIN 5231 / DIN ISO 8976
- high quality lacquered red finish
- hardened
- polished jaws and joint

PRO +

Item #	Description
390	Box Joint Waterpump Pliers, 175 mm
391	Box Joint Waterpump Pliers, 240 mm
392	Box Joint Waterpump Pliers, 300 mm



Sheet Metal Shear Attachment

- makes your drill machine a sheet shear
- maximum cutting thickness 1,2 mm
- 6 mm hexagon shaft
- with support handle for safety and exact guidance

Item #
3259



Nutsert Attachment, M3-M4-M5-M6

- makes your drill a rivet gun
- works with all standard drills (reversible, min. torque 20 Nm)
- with wrench
- with threaded mandrels and nosepieces in M3-M4-M5-M6
- manual included

Item #
407



Blind Riveting Attachment, 2.4-3.2-4.0-4.8 mm

- makes your drill a rivet gun
- works with standard electric drills (reversible, min. torque 15 Nm)
- aluminium rivets 2,4 - 4,8 mm
- stainless steel rivets 2,4 - 4,0 mm
- with hex shaft 1/4" - 6,35 mm
- manual included

Item #
406



23-piece Cap Oil Filter Wrench Set, Aluminium Diecast

- 1 reversible ratchet 1/2"
- 1 ring wrench 27 mm
- 21 oil filter caps in following sizes::
 - 65 mm x 14-pt., 67 mm x 14-pt., 74 mm x 14-pt.
 - 75 mm x 15-pt., 74 mm x 8-pt., 74 mm x 15-pt.
 - 73 mm x 14-pt., 75 mm x 12-pt., 74 mm x 15-pt.
 - 79 mm x 15-pt., 73 mm x 15-pt., 74 mm x 14-pt.
 - 84 mm x 18-pt., 89 mm x 15-pt., 91 mm x 15-pt.
 - 90 mm x 15-pt., 95 mm x 15-pt., 76 mm x 12-pt.
 - 80 mm x 15-pt., 101 mm x 15-pt., 92 mm x 15-pt.



Item #
1035



6-piece Plastic Oil Filter Wrench Set

- for 3/8" drive
- sizes:
 - 65 mm / 67 mm x 14 pt.
 - 74 mm / 76 mm x 15 pt.
 - 76 mm x 14 pt.
 - 76 mm / 80 mm / 93 mm x 15/30/36 pt.
 - 93 mm x 15 pt.
- 1 adaptor 3/8" to 1/2"



Item #
1018



21-piece Oil Drain Socket Set, 3/8"

- **chrome vanadium steel**, black finish
- 9 hexagon sockets:
 - 8-9-10-12-14-17 mm, 5/16", 3/8", 1/2"
- 5 square sockets 8-12-13-14 mm, 1/2"
- 1 inner square socket 10 mm
- 1 triangle socket 10 mm
- 1 spline socket M16
- 1 sliding T-bar 200 mm



Item #
1014



PRO +

48-piece Oil Drain Thread Repair Kit

- 5 spare screws **M15 x 1.5**
- 10 washer plates for M15
- 1 tap HSS-G M15 x 1.5
- 5 spare screws **M18 x 1.5**
- 10 washer plates for M18
- 1 tap HSS-G M18 x 1.5
- 5 spare screws **M20x 1.5**
- 10 washer plates for M20
- 1 tap HSS-G M20 x 1.5

Item #
125



Oil Filler Tool, 10 Liters

- with 5-pc adaptor set with different angles
- for filling gearboxes and differentials with oil
- hose length 160 cm
- can be used up to SAE 140

Item #
8056



Oil & Battery Fluid Flasks

- acid, oil and alkali resistible
- with threaded nozzle for fillers (filler not included)



Item #	Description
9983	Oil & Battery Fluid Flask, 2 L
9984	Oil & Battery Fluid Flask, 4 L



Oil Funnel, 850 ml Reservoir

- square type



Item #
9986

PRO +

Brake Piston Wind Back Tool for VW T5

- special tool for VW T5



Item #
1113

PRO +

Brake Piston Wind Back Adaptor for Golf V / VI

- to be used with Art. 1120 / 1118
- completes sets Art. 1127, 1119, 1116, 1117



Item #
1106

PRO +

15-piece Brake Maintenance and Assembly Tool Set

All purpose set includes following tools:

1. Brake spring pliers with movable claw for riveted and glued brake linings
2. Brake spring pliers for installing and removing the brake shoe recuperating spring on riveted brake linings
3. Brake calliper brush for removal of brake dust and dirt from the brake calliper
4. Brass Brake Calliper Brush for cleaning aluminium brake callipers
Soft brass bristles facilitate damage-free cleaning
5. Special tool for brakes for installing and removing spring plates and the holding device of brake linings on drum brakes, e.g. on VW, Seat, Skoda, Opel and Renault with rear drum brakes
6. Brake calliper file, extra slim style (width 10 mm), especially appropriate for Japanese vehicles, for removal of brake dust, rust and dirt from the brake calliper
7. Brake line flare nut wrench for screwed connections on brake lines at the front and rear axle, Straight slot with 10x11 6-point
8. Assembly tool for installing and removing the draw spring of hand brake shoes, e.g. on MERCEDES-BENZ passenger cars with rear disc brakes as well as on VW LT since 1997
9. Brake spring installer for pressure spring of the parking brake
10. Brake cable pliers for removing and replacing the hand brake cable
The Pliers compress the return springs so far that the cable may be easily removed and replaced.

In carrying case

Item #
1818

PRO +



3-piece Brake Bleeding Key Set

- special ratchet 150 mm with angled head, fine-toothed, reversible
- 2 pieces sockets, 11 mm:
20 mm short (e.g. VW Passat, Audi A4) and 65 mm long
(e.g. for VW Golf V, Audi A3, Seat Altea, Skoda Octavia)

Item #
66510



6-piece Brake Spanner Set

- forged and chrome plated
- sizes:
 - 1/4" square x 5/16" open end
 - 1/4" square x 10 mm square
 - 9 mm hexagon x 11 mm hexagon
 - 8 mm hexagon x 10 mm hexagon
 - 1/4" hexagon x 7 mm hexagon
 - 7/16" open end x 11/32" square

Item #
1240



Brake Caliper Brush, 230 mm

- steel wire

Item #
1798



Brake Spring Pliers with Claw, 330 mm

- with movable claw for riveted and glued pads

Item #
1817



Digital Brake Disc Vernier Caliper, 160 mm

- measuring range up to 140 mm / 5,5 Inch
- Hold-Function
- digital measurement in mm and inch
- with battery CR2032-3V
- with conversion scale

In plastic box

Item #
1943



Brake Spring Installer for Mercedes Parking Brake

- especially for Mercedes parking brake
- total length 140 mm



Item #
1791



3-piece Pentagon Socket Set, 1/2"

- chrome vanadium steel
- 14 mm pentagon socket fits Opel / Vauxhall (Astra G, Zafira), Smart
- special socket for Girling brakes
- 19 mm pentagon socket fits Peugeot, Renault



Item #
1112



Thread Replacers M9 x 1.25 for Art. 148

- 1 thread insert with suitable copper ring



Item #
148-1



Spare Grinding Heads for Art. 1157

- for honing tool Art. 1157
- with pin for easy fastening



Item #	Description
1257	3 Spare Grinding Heads for Art. 1157, 100 mm Heads, Grain # 280
1258	3 Spare Grinding Heads for Art. 1155, 75 mm Heads, Grain # 280



Hydraulic Flaring Tool

- 4.75 mm (3/16"), 5.00 mm, 6.00 mm
- lightweight construction
- for use directly on the car
- works with steel, aluminium, brass and copper pipes
- can also be used for coated pipes
- for double and convex flaring according to SAE und DIN
- deburring tool included



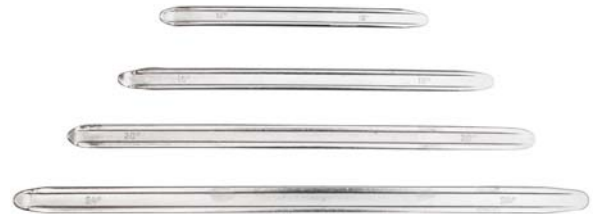
Item #
8230

PRO +

4-piece Tire Lever Set, 300-400-500-600 mm

- chrome plated
- hardened

In tetron wallet



Item #
1548

PRO +

Tire Lever with Plastic Protection Cover, 500 mm

- for damage free assembly of tires on aluminum rims
- exchangeable plastic pad (thickness 5.5 mm) is attached to steel lever with 3 screws
- also available in 380 mm length: Art. 1527



PRO +

Item #	Description
63150	Tire Lever with Plastic Protection Cover, 500 mm
63151	Spare Plastic Protection Cover for Item # 63150

Four Way Wheel Wrench for Cars

- 17 mm x 19 mm x 21 mm x 1/2" external square
- chrome plated, hardened
- leg length 150 mm
- according to DIN 899



Item #
1459

PRO +



14-piece Tire Valve Repair Kit

- 1 pencil gauge with key chain
- 1 thread repair cutter
- 4 plastic caps
- 4 chrome plated hex caps
- 4 valve inserts



Item #
3272



Air Nippel, Brass, 1/4"

- wear part for air inflators
Art. 3201, 3241, 55400, 55410
- fixed with hose clamp (not included)

Item #
68012



Dead Blow Bumping Hammer

- plastic handle
- blow-back proof due to steel balls in the head of the mallet, therefore stronger impact
- especially for loosening stuck rims when changing tires
- Art. 1968: standard weight, for cars
- Art. 1876: extra heavy duty, for trucks and SUV



Item #	Description
1968	Dead Blow Bumping Hammer, Head Ø 70 mm
1876	Dead Blow Bumping Hammer, Head Ø 105 mm



Ball Pein Hammers

- special dent removal head shape
- fibre glass handle
- with rounded cross and rounded peen



Item #	Description
3870	Ball Pein Hammer, 225 g
3871	Ball Pein Hammer, 450 g
3872	Ball Pein Hammer, 700 g
3873	Ball Pein Hammer, 900 g



Car Body Repair Hammer, 225 g, Ø 38 mm

- head made of **chrome molybdenum steel**
- chequered hammer face for removing dents without distortion
- hickory shaft
- length 310 mm

Item #
1675

PRO +



2-piece Nylon Mallet Set with Hickory Handle

- with nylon faces
- size 1: head diameter 30 mm
- size 2: head diameter 45 mm

Item #
1859

PRO



7-piece Body Repair Set

- heavy duty hickory handles
- 3 panel beating hammers
- 4 panel irons

In carrying case

Item #
1672

PRO +



Body and Fender Repair Kit, hydraulic, 10 TO

- for special operations on car bodies and fenders
- maximum pressure: 10 tons
- many accessories

Packed in carrying case with wheels

Item #
1689

PRO +



Dent Removal Set

- for inexpensive dent repairing
- hot melt glue gun with 2 glue sticks
- 1 plastic scraper for removing glue
- 1 soft panel beating pen



Item #
8057



Door Upholstery Remover, 235 mm

- for removal of trim strips on car bodies
- can be used for nearly all brands



Item #
3104



10-piece Spot Weld Drill Set

- spot weld cutter with double ended-crown
- 9,5 mm Cobalt-HSS-spot
- weld drill 8x80 mm
- 5 double ended cutter crowns 9,5 mm
- 2 pilot pins

In metal case



Item #
1632



20-piece Brush Set

- for polishing and cleaning machines, cars and other work pieces made of metal, plastic, wood, etc.
- 1/4" drive, Ø 9 - 11 - 13 - 15 - 17 - 19 mm
- 6x brass
- 6x nylon
- 6x stainless steel
- 1x 150 mm extension with quick release for power tool use
- 1x soft grip handle 150 mm with quick release for hand use

In nylon pouch



Item #
379



Power Magnets, each 5 kg Capacity, 4 pieces

- perfect for adjusting car body parts and accessories for final assembly
- rubber coated magnets

Item #
7994



Soldering Aid Pliers, 240 mm

- for holding cable ends during soldering
- clip springs on the pliers jaws provide a safe grip
- perfect for soldering while working on a car

Item #
9945



Wrecking Bars, extra strong

- **extremely strong**
- forged and hardened
- with claw and splitter
- no lateral adjustment



Item #	Description
52106	Wrecking Bar, 600x30x17 mm
52109	Wrecking Bar, 910x30x17 mm



Adjustable Wrecking Bar, 60-86 cm

- forged
- nail puller + push button
- 20 adjustable positions from 60-86 cm
- high flexibility and strong lever forces
- extremely efficient, also in limited space areas and over-head

Item #
52120



4-piece Mechanic's Pry Bar Set

- **chrome vanadium steel**
- 200-300-450-600 mm
- slip guard handels with steel head

Item #
9137



4-piece Pry Bar Set

- chrome vanadium steel
- satin chrome plated
- 1 pcs. 900 mm (36") straight pry bar
- 1 pcs. 900 mm (36") 30° offset pry bar
- 1 pcs. 600 mm (24") 75° offset pry bar
- 1 pcs. 600 mm (24") 90° offset pry bar
- plastic handles with metal head



Item #
9139



5-piece Assembly Wedge Assortment

- made from special hard plastic / nylon
- for working on car interior lining, cover panel, dashboard, trim strips



Item #
63250



5-piece Special Clip Remover Set, Stainless Steel

- stainless steel
- slip guard handles
- U-Notch Chisel 38 mm (internal 8.2 mm / external 31.5 mm)
- V-Notch Chisel 38 mm (internal 4-12.5 mm / external 31.5 mm)
- U-Notch Chisel 13 mm (internal 6.15 mm / external 12.8 mm)
- V-Notch Chisel 13 mm (internal 1-4.4 mm / external 12.8 mm)
- U-Notch Chisel, long bended type (internal 8.4 mm / external 31.4 mm)



Item #
1328



Door Weather Strip Molding Remover

- for loosening the car window rubber
- length: 170 mm



Item #
1329



9-piece Needle and Hook Set

- chrome vanadium steel
- mini straight pick
- mini full hook
- mini 45° hook
- mini 90° hook
- large 1" scraper
- large straight pick
- large full hook
- large 45° hook
- large 90° hook
- with ergonomic slip-guard handles

Item #
798



2-piece Scraper Set

- all purpose
- exchangeable 40 mm blade
- may also be used in hard to reach area due to special short construction

Item #
53801



Parallel Jaw Puller

- available as **two and three arm puller** (see table below)
- fine thread
- special steel, forged
- mechanic puller with standard hooks
- can be used for internal and external pulling



Item #	Description
93-1	Parallel Jaw Puller, 2-legs, 120x100 mm
93-2	Parallel Jaw Puller, 2-legs, 150x200 mm
93-3	Parallel Jaw Puller, 2-legs, 250x200 mm
93-4	Parallel Jaw Puller, 2-legs, 350x200 mm
93-5	Parallel Jaw Puller, 2-legs, 520x200 mm
93-6	Parallel Jaw Puller, 3-legs, 120x100 mm
93-7	Parallel Jaw Puller, 3-legs, 150x200 mm



Internal / External Puller, 2-arm + 3-arm use

- chrome vanadium steel
- can be used with 2 or 3 arms
- clamping width: 76-102 mm (Art. 7790) / 76-178 mm (Art. 7791)
- clamping depth up to 100 mm (Art. 7790) / up to 180 mm (Art. 7791)



Item #	Description
7790	Internal / External Puller, 2-arm + 3-arm use, 76-102 mm, 180 mm deep
7791	Internal / External Puller, 2-arm + 3-arm use, 76-178 mm, 180 mm deep



BMW Windshield Wiper Arm Remover

- for following BMW models:
E12, E21, E23, E24, E28, E30, E30C, E31, E32, E32/3, E34, E36, E36/2, E36/3, E36/5, E36/7, E36/C, E38, E38/3, E39, E39PL, E46, E46/16, E46/2, E46/3, E46/5, E46/C, E52, E53, E60, E 65, E66, E67, E85, RR1
- adjustable plate

Item #
9966



Wiper Arm Puller

- especially for removal of VAG rear wiper arms
- opening width 30-60 mm

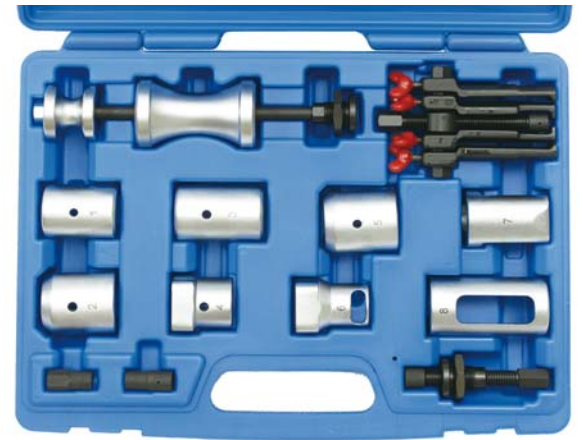
Item #
9967



13-piece Windscreen Wiper Arm Puller Set

- universal application
- with sliding hammer and ejection arbor
- including 2-arm gear puller

Item #
65700



Sliding Hammer Extractor

- for fast, accurate and professional extraction of stuck valve stem seals without causing damage to the surrounding areas
- fits from 10-19 mm

In carrying case

Item #
62610



Ball Joint Puller, 39 mm

- for trucks
- for use with impact wrenches
- especially for conical seat connections
- high loosening torque because of simultaneous turning and impact motion

Item #
67215

PRO +



Exhaust Air Hose for Air Tools, 530 mm

- keeps dirty air away from the car
- lowers the noise level
- suitable for BGS item# 3233, 3235, 3245

Item #
68010

PRO +

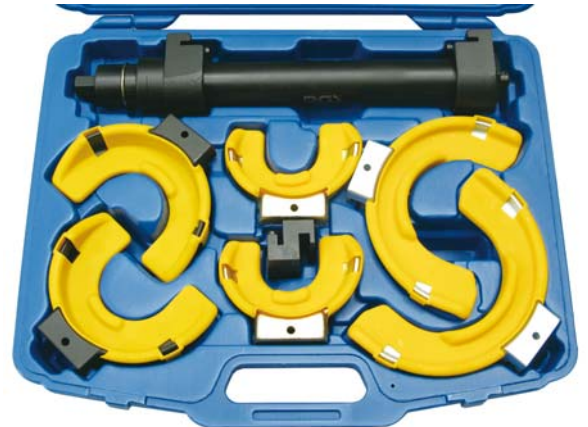


Spring Compressor Set with 3 Pairs of Jaws

- maximum capacity ca. 1050 kg / 10200 Nm
- maximum opening width 300 mm
- with 3 sets of Jaws
 - 60 - 125 mm
 - 88 - 160 mm
 - 126 - 212 mm
- **chrome molybdenum steel**
- plastic coated jaws protect the springs from a loss of the antirust coating

Item #
980

PRO +



Splitting Knife Set for Ball Joint Assemblies

- splitting knives open from 75-105 mm
- total length of central bolt is 290 mm
- see item# 7753 for separate splitting knife

Item #
7753

PRO



7-piece Universal Steering Knuckle Set

- for spreading open the shock absorber
- with 2 exchangeable spreading inserts (5 and 8 mm depth) and 8, 10, 12 mm guide pins
- e.g. for the shock absorber reception in the wheel bearing housing when changing the damper, for wishbone ball joint reception when disassembling the suspension strut
- slipping off is avoided by strong guiding bolts that are stuck in the screw holes
- a spindle with 13 mm outer hex pushes the spreader in the opening, no need to use a hammer
- material fatigue and breakage esp. of aluminum parts is avoided



Item #
65592



Adjustable Fork Type Splitter, 18-42 mm

- **chrome vanadium steel**
- knurled and black finish handle, satin chrome plated fork
- opening width 18-42 mm
- for separating ball joints, tie rods etc.



Item #
65550



Flexible Joint Spark Plug Wrench with limited Torque

- **chrome vanadium steel**
- satin chrome plated
- 12-point profile
- due to the torque limit spark plugs can not be overtightened and damaged

Item #
145



Item #	Description
145	Flexible Joint Spark Plug Wrench with limited Torque 19 NM, 550 mm long, 14 mm
146	Flexible Joint Spark Plug Wrench with limited Torque 23 NM, 550 mm long, 16 mm
147	Flexible Joint Spark Plug Wrench with limited Torque 27 NM, 600 mm long, 21 mm



3-piece Torque Limited Spark Plug Socket Set 14-16-21mm

- **chrome vanadium steel**
- 1/2" drive, 3/8" adaptor included
- 14 mm torque limited to 19 Nm
- 16 mm torque limited to 20 Nm
- 21 mm torque limited to 25 Nm

Item #
7190



Torque Limited Glow Plug Sockets 8-10-12 mm

- chrome vanadium steel
- 3/8" drive, length 120 mm
- 8 mm torque limited to 15 Nm
- 10 mm torque limited to 18 Nm
- 12 mm torque limited to 18 Nm

Item #
7195



8-piece Glow Plug Installation Kit

- chrome vanadium steel
- with torque limited ratchet (18 Nm), 3/8" drive
- extension bar 100 mm, 3/8" drive
- 12-point glow plug joint sockets 8-9-10-12-14-16 mm
- prevents damage of glow plugs by limited torque



Item #	Description
2899	8-piece Glow Plug Installation Kit
2898	Torque Limited Ratchet, single, from 2899



Glow Plug Socket Pliers

- for assembling and disassembling of glow plugs



Item #	Description
66155	Glow Plug Socket Pliers, straight
66157	Glow Plug Socket Pliers, 90° bent



3-piece Glow Plug Repair Tool Kit

- for removal of pollution from the glow plug channel and for extraction of stuck glow plugs
- perfect for Mercedes-Benz CDI engines
- tapered reamer M10 x 1.00 (4, 5 and 6 cylinder engines OM611, 612, 613 and Smart CDI R660)
- tapered reamer M12 x 1.25 (4 valve engines OM604, 605, 606)
- glow plug extractor for glow plug threads SW10 (OM611, 612, 613)

Item #
65630



Glow Plug Tool

- for unscrewing and disassembly of glow plugs in the cylinder head, especially for glow plugs that are stuck because of carbonization remains
- cylinder does not need to be removed any more
- fits all Mercedes 10 mm glow plugs, engine codes 611-612-613 etc., especially CDI engines

Item #
65601



Spark Plug Thread Repair Kit M 14

- 1 tap / rethreader for M14 threads HSS-G
- 5x 11 mm tap inserts black finished
- 5x 16 mm tap inserts black finished
- 5x 19 mm tap inserts yellow Zinc plated

Item #
149



Spark Plug Socket Puller Set, 225 + 350 mm

- especially for metal coated spark plug sockets on VW engines
- prevents spark plug wires from damage during assembly

Item #
65260



Waterpump Disassembling Tool

- fits VW T5, Touareg 2.5D
- 1 gear wheel puller for disassembling of the waterpump gear wheel
- 1 water pump puller for disassembling of the waterpump
- special key for T5 crankshafts for counterholding the crankshaft when loosening the waterpump's gear wheel screw

Item #
8221



Axial Joint Tool, 34-45 mm

- for fast and professional changing of the axial joints of cars and light commercial vehicles
- automatic clamping of the joint heads
- easy assembly of long tie rods because of open construction
- saves up to 3 hours of working time
- for joint heads Ø 35 - 45 mm
- works with 1/2" ratchets or 27 mm sockets

Item #
66525

PRO +



Offset Impact Driver, 1/2", 620 mm

- suitable for different applications, e.g. loosening of the belt pulley holding screw, countershaft
- provides high loosening torque under narrow space conditions
- special slip guard safety handle

Item #
25150

PRO +



Locking Clamp for Hood and Trunk Openers

- for locking hood and trunk openers when the gas springs are not working
- maximum opening width 30 mm

Item #
2790

PRO +

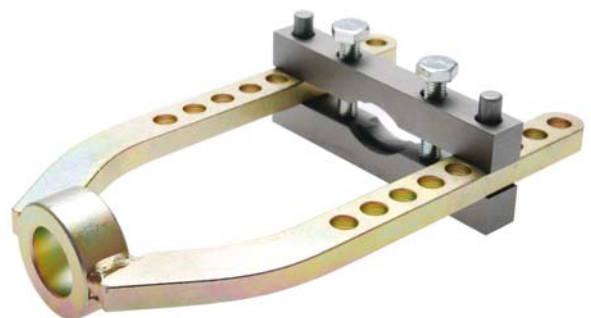


Propshaft Separator

- new model
- for separating propshafts
- fits for most car models (except for Seat)

Item #
1518

PRO +



Special Applications

22-piece Alternator Bit and Socket Set

- chrome vanadium steel
- special bit set with alternator appropriate wrenches for assembling belt pulleys
- includes various adaptors to fit all major brands
- for Mercedes, BMW, Ford, VAG, Fiat, Renault, Porsche, Vauxhall, Toyota etc. (application chart included)



Item #
4247



Oxygen Sensor Socket, 22 mm (7/8") x 80 mm, 3/8" drive

- from Oxygen Sensor Socket Set Art. 1140



Item #
1140-22



1/2" Oxygen Sensor Socket 22 mm

- length 150 mm
- for VAG, BMW, Mercedes, Ford, Opel, etc.

Item #
1173



2-piece Lambda Thread Repair Cutter Set

- M 18 x 1.5 and M 12 x 1.25 mm

Item #
65591



Lambda Thread Repair Cutter, M 18 x 1,5

- 1/4" drive, can also be used with 19 mm socket or wrench

Item #
65590



5-piece Stud Extractor Set

- chrome vanadium steel
- contains:
 - 1 double ring ratchet wrench 14 x 17 mm, reversible
 - 4 stud sockets for automatic clamping of studs 6, 8, 10 and 12 mm



Item #
65505

PRO +

11-piece Stud Puller Socket Set

- chrome vanadium steel
- 3/8": 5 -6 -7-8-9 mm
- 1/2": 10-10.5-11-12-14-16 mm
- all sockets with additional outer hexagon



Item #
65511

PRO +

63-piece Fiat / Alfa / Lancia Engine Timing Tool Kit

contains important tools for adjustment:

- flywheel
- crankshaft
- camshaft
- fuel injection pump shaft
- belt pulley
- tensioning of the timing belt
- complete classification chart included
- fits various engines, e.g.:
 - 3,0 ltr. V6 (Alfa)
 - 1,4 ltr. 12 V (Bravo / Brava / Lancia)
 - 2,0 ltr. 20 V (Coupé)
 - 2,0 ltr. 16 V (Lancia)
 - 1,6 ltr. 16 V (Alfa 145 / 146 / 147 / 156)
 - 1,8 + 2,0 ltr. 16 V (Alfa 156)
 - 2,4 ltr. 20 V (Lancia)
 - 2,0 ltr. 16 V (Alfa 147 / 156 / 166 / GTV / Spider / GT)
 - 1,8 ltr. 16 V (Bravo / Brava / Marea / Lancia Delta / Dedra)
 - 1,8 ltr. 16 V (Fiat Coupé / Barchetta / Punto / Lancia Delta / Dedra)
 - 1,8 ltr. 16 V (Fiat Coupé / Barchetta / Lancia / Alfa)
 - 2,0 ltr. 20 V (Bravo / Brava / Marea)
 - 1,6 ltr. eco (Alfa 147 (105 PS))
 - 1,6 ltr. (Bravo / Brava / Marea)
 - 1,2 ltr. 16 V (Punto)



Item #
8159

PRO +

26-piece Engine Timing Tool Kit for Honda, Mazda, etc.

- for. Honda, Mazda, Subaru, Hyundai, Daewoo, Chevrolet, etc.
- important kit when working on the engine, e.g.. timing belt, general engine settings, camshafts, etc.
- incl. application chart



Item #
68300

PRO +

50-piece Engine Timing Tool Kit for Toyota + Mitsubishi

- for Toyota, Mitsubishi
- important kit when working on the engine, e.g.. timing belt, general motor settings, camshafts, etc.
- inkl. application chart



Item #
68310

PRO +

11-piece Engine Timing Tool Kit for BMW

contains important tools for adjustment:

- flywheel
- crankshaft
- belt pulley
- for following series:
E30, E34, E36, E36/7, E36/8, E38, E39, E46

Item #
8146

PRO +



11-piece Engine Timing Tool Kit for BMW Engines

- für engine codes:

- M40, M43
- M42, M44, M50, M52, M 54, M56
(engines with double camshafts)

contains important tools, e.g. for:

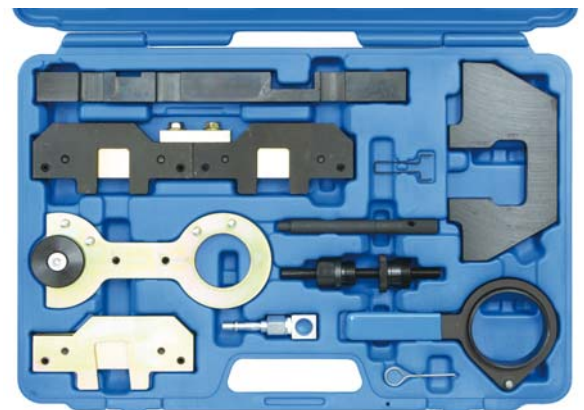
- camshaft assembling / disassembling
- M 40 timing belt change
- valve timing of camshafts

- fits followings models:

- BMW: 3, 5, 7, X3, X5, Z3, Z4
type series E30-31-32-34-36-38-42-
46-53-60-61-65-66-83-85)

Item #
62615

PRO +



13-piece Engine Timing Tool Kit for BMW Diesel Engines

- für engine codes:

- M41, M51, M47 - M47 TU/T2,
M57 TU/T2 2.0l/3.0l 1998-2008
- 204D3 / Td4, Td 6
- M47R

contains important tools, e.g. for:

- camshaft assembling / disassembling
- hydraulic chain tensioner assembling / disassembling
- valve timing of camshafts

- fits followings models:

- BMW: 1, 3, 5, 6, 7, X3, X 5
(type series E34-36-38-39-66-83-90-91-92-93)
- Landrover: Range, Freelander
- Rover: 75, MG, MG ZT
- Vauxhall / Opel: Omega-B

Item #
62616

PRO +



26-piece Engine Timing Tool Kit for BMW Engines

- für engine codes:
 - N42, N46, B18/-A, B20/-A/-B

contains important tools, e.g. for:

- camshaft assembling / disassembling
- valve timing of camshafts

- fits followings models:
 - BMW: 1, 3, 5, X3, Z4
 - (type series E87-46-60-85-83-90-91)

Item #
62617

PRO +



13-piece Engine Timing Tool Kit for BMW Mini

- für engine codes:
 - W10, W11, N14

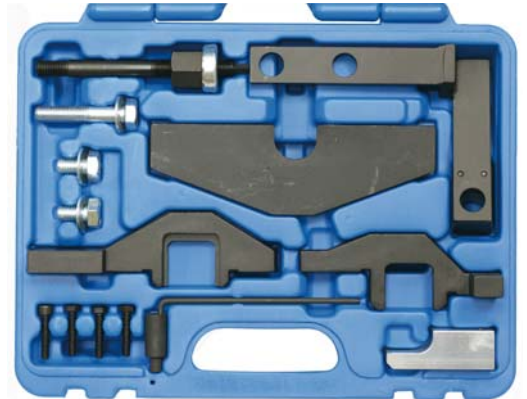
contains important tools, e.g. for:

- camshaft assembling / disassembling
- fixation of crankshaft

- fits followings models:
 - Mini: One, Cooper, Cooper S, Cooper S JC
 - Cooper S JCW type series R50-52-53-55-56-57)

Item #
62618

PRO +



12-piece Engine Timing Tool Set for Renault / Opel / Nissan

- for Renault, Opel, Nissan common rail engines (1,5 - 1,9 - 2,2 - 2,5 ltr.)
- contains many tools needed for positioning and locking the crankshaft and camshaft when repairing the timing belt and engine
- for Renault Avantime, Clio, Espace, Kangoo, Laguna, Master, Megane, Modus, Scenic, Twingo, Trafic
- for Opel Movano, Vivaro
- for Nissan Almera, Interstar, Kubistar, Primastar, Note, Micra, Primera, Qashqai
- complete classification chart included

Item #
62505

PRO +



3-piece Engine Timing Tool Kit for Ford Gasoline Engines

- fits for gasoline engines 1.25 L, 1.4 L, 1.6 L, 1.8 L, 2.0 L

Item #
8215

PRO +



5-piece Engine Timing Tool Kit for VW Diesel Engines

- for 2.4 L Diesel-engines, e.g. LT,
- for engines codes AAB, AJA

Item #
8216

PRO +



5-piece Engine Timing Tool Kit for Ford Focus

- for replacing the cam belt on Ford
Focus 1.6 Ti-VCT engines, engine code
HXDA (2003-2007) and 2.0 TDCI
with engines codes G6DA, G6DB, G6DC 2003-2007

- camshaft sprocket holding tool
- tensioner pulley locking pin
- flywheel timing pin
- crankshaft timing pin
- camshaft sprocket locking tool

Item #
8218

PRO +



7-piece Engine Timing Tool Kit for VAG

- fits for 2.0 L FSI engines, e.g. Golf, Touran, Audi A3,
engines codes AWA, BMB, AXW

Item #
8219

PRO +



Motor

Engine Timing Tool Kit for Mercedes-Chrysler-Jeep, 8-tlg.

- contains tools for locking flywheel and camshaft
- for CDI 2.0L - 2.2L - 2.7L - 3.3L - 4.0L
- D-DT 2.0L - 2.2L - 2.5L - 2.9L - 3.0L
- petrol .8L - 2.0L - 2.3L



Item #
8222



Engine Timing Tool for VW 1.2 L Engines



Item #
8155-2



3-piece Engine Timing Tool Kit for VAG

- suitable for VAG FSI 1.4L and 1.6L engines
- contains twin camshaft locking tools
- and a setting gauge holder
- fits for engine codes AXU, BAG, BKG, BLF, BLN, BLP
- to check and adjust camshaft timing
- required when replacing timing belts or timing chains



Item #
62625



Tensioner Pulley Wrench, 32 mm, 12-point

- for moving the automatic tensioner pulley when changing the gear belt
- fits Audi 100 as of '91, A4, A6 2.5 TDI 5 cylinder
- VW Polo Diesel, Lupo as of '99, LT and T4 2.5 TDI



Item #
66720



Free Roller Belt Tension Adjusting Key

- extra flat type
- 185mm x 200mm x 20,5 mm

Item #
66725



Tensioner Pulley Wrench

- for loosening the automatic tensioner when changing the poly-V-belt
- for VW GOLF, PASSAT, POLO, T4
- length 450 mm

Item #
1707



Belt Pulley Counterholding Wrench, VW 1.6 L

- fits: VW Lupo, Polo, New Beetle, Golf, Bora Caddy; Seat Ibiza, Cordoba (engine codes ARC, ATN, AUS, AVY, AZD, BCB)
- length: 770 mm

Item #
66701



Belt Pulley Counterholding Wrench

- fits VW 1.4 - 1.6 - 2.0 l engines (engine codes ADX, AEA, AEE, AEH, AEX, AFH, AFK, AGP, AGR, AHW, AJM, AKL, ALN, AMF, ANA, ANY, APE, APF, ARM, ATJ, AUA, AWH)
- fits following car models: VW Beetle, Bora, Caddy, Golf, Lupo, Polo, Sharan, Touran, Transporter, Audi A2-3-4-6, TT, Skoda Fabia, Octavia, Superb
- for counterholding the belt pulley of 4 valve engines with pin diameter 11.5 mm
- also for counterholding the belt pulley of 2 valve engines

Item #
66703



3-piece Crankshaft Timing Belt Pulley Locking Tool Set

- especially for VW 2.0 L TDI pump-injector engines

Item #
62640



27-piece Valve Seat Cutter Set, 30-60 mm

- sizes:
each 45° + 90°:
30-32,5-35-37,5-40-42,5-50-52,5-55-57,5-60 mm

In metal case.



Item #
1970



Valve Stem Seal Ring Pliers

- for easy removing of deep valve stem seals
on multi valve engines
- length 250 mm
- for VW, OPEL, FORD and many others

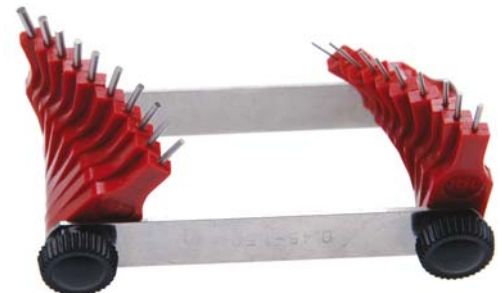


Item #
1780



20-piece Nozzle Gauge, 0.45 - 1.50 mm

- to check nozzles for damage
- Ø 0,45-0,50-0,55-0,60-0,65-0,70-0,75-0,80-0,85-0,90
0,95-1,00-1,05-1,10-1,15-1,20-1,25-1,30-1,40-1,50 mm



Item #
3041



Camshaft Guide, 170 mm

- for VW + Audi
- engine codes AAA-ABV-AES-AGZ-AMY-AZX



Item #
8122



5-piece Injector Sealing Cutter Set for CDI Engines

- for reworking the injector seat when removing the injectors
- 19 mm hexagon pilot
- 15 mm reamer fits various makes and models
- 17 mm reamer fits BMW, Peugeot, Citroen, Renault
- 19 mm reamer fits für Mercedes CDI
- 19 mm offset reamer fits for Fiat / Iveco



Item #
62605



Injector Gasket Puller, 230 mm

- for removal of hard to loosen copper rings

Item #
62630

PRO +



8-piece CDI Injector Extractor Set

- with sliding hammer 1,70 kg
- extra short: only 225 mm
- especially for Mercedes-Benz CDI engines
- total length 350 mm
- 2 extract adapters M17X1,0 + M27X1,0

Item #
62635

PRO +



3-piece Injector Extractor Set

- 1x impact extractor (1,85 kg, 470 mm long)
- 1x injector claw
- 1x adapter with internal threads
- total length with adaptor 500 mm, with claw 570 mm

Item #
62005

PRO +



Diesel Injection Pump Puller

- holds the sprockets during the assembly of the injection pump
- fits BMW engines M47-M47T2-M47TU-M57-M57TU
- fits BMW types E46 (318D-320D) year 1988-2005 and E60, E61 (318TD-320TD-525D-530D-530-535) year 2000-2006

Item #
62050

PRO +



Camshaft Sprocket Puller for Ford Engines

- can also be used for pulling off the impeller
- fits Fords engines F8M, F8Q, J8S, S8U, S9U
- 90 x 65 mm

Item #
66350

PRO +



2-piece Cylinder Head Holders Set

- fits all standard cylinder heads
- especially for engines with up-front camshafts

Item #
66380

PRO +



7-piece Pressure Loss Testing Kit

- for checking pressure tightness of single cylinders on Diesel and gasoline engines
- includes dial indicator
- adaptor M12 x 1.25 mm for motorbikes
- adaptor M10 x 1.00 mm for motorbikes
- adaptor M24 x 2 mm for Diesel engines
- adaptor M12 x 1.25 mm with 7 mm hole for VW Diesel engines
- adaptor for multi valve engines
- adaptor for M14 x 1.25 and M18 x 1.5 mm

Item #
62645

PRO +



25-piece Carburetor Tester, 0-14 PSI

- for synchronal testing of 2-4 carburetors
- for cars and motor bikes
- 4 manometers
- 4 hoses 8 x 5 x 750 mm
- 4 replacements gaskets
- 4 connectors 53 mm (M6x0.75)
- 4 connectors 60 mm (M6x1.00)
- 4 extensions 3.9 x 52 mm
- 4 extensions 3.9 x 122 mm

Item #
62670

PRO +



24-piece Radiator Pressure and Cooling System Tester

- suitable for all standard vehicles
- testing range 0-2,5 bar
- same parts as in Art. 8027 and **additionally** adaptors for following cars:
 - Mercedes A class
 - BMW E60, E63, E64, E65
 - VW Sharan 1.8, 2.8
 - Toyota RAV 4, Previa
- **also contains an additional alternator maintenance kit for cleaning the alternator and refilling cooling liquid**

Item #
8098

PRO +



14-piece Radiator Pressure Test Kit

- suitable for all standard vehicles
- testing range 0-2,5 bar

PRO +

Item #	Description
8027	14-piece Radiator Pressure Test Kit
8027-1	Pump for Radiator Pressure Test Kit Item 8027
8027-2	Thermometer with Sensor for Art. 8027
8027-3	Adaptor No. 3 for Art. 8027: Mercedes-Benz, GM, Jeep
8027-4	Adaptor No. 4 for Art. 8027: Peugeot, Subaru, Chrysler, Nissan u.a
8027-5	Adaptor No. 5 for Art. 8027: Honda, Toyota, Mitsubishi, Chrysler, u.a.
8027-6	Adaptor No. 6 for Art. 8027: Benz (ML), GM
8027-7	Adaptor No. 7 for Art. 8027: Volvo, Saab, Citroen, Peugeot, Renault, Fiat, Alfa, Jeep
8027-8	Adaptor No. 8 for Art. 8027: VW (Vento, T4, Passat-1996, Golf, Beetle, Sharan)
8027-9	Adaptor No. 9 for Art. 8027: Audi, BMW345, VW Passat, Porsche Cayenne
8027-10	Adaptor No. 10 for Art. 8027: BMW (E46,E36,E34,E39,E38,E32,E90)
8027-11	Adaptor No. 11 for Art. 8027: Audi, VW
8027-12	Adaptor No. 12 for Art. 8027: Mondeo, Land Rover, Opel, Jaguar, BMW E60
8027-13	Adaptor No. 13 for Art. 8027: Mercedes (C-Klasse, E-Klasse, S-Klasse)
8027-14	Adaptor No. 14 for Art. 8027: Ford Mondeo, Focus, C-Max03
8027-15	Adaptor No. 15 for Art. 8027: Mazda (M3)
8027-16	Adaptor No. 16 for Art. 8027: Mercedes 1500C.C
8027-17	Adaptor No. 17 for Art. 8027: BMW E60
8027-18	Adaptor No. 18 for Art. 8027: VW Sharan 1.8T 2.8
8027-19	Adaptor No. 19 for Art. 8027: Toyota
8027-30	Connector R123/R124 for Art. 8027, black
8027-31	Connector R123/R125 for Art. 8027, blue
8027-32	Plastic Wrench for Art. 8027
8027-LEER	Empty BMC for Art. 8027



9-piece Truck Radiator Pressure Test Kit

- with pump and 7 adaptors
- for nearly all truck brands, such as DAF, IVECO, Mercedes-Benz, MAN, Scania, Renault, Volvo
- for testing cooling system pressure
- incl. application chart und manual

PRO +

Item #	Description
8097	9-piece Truck Radiator Pressure Test Kit
8097-1	Pump for Radiator Pressure Test Kit Art. 8097
8097-2	Hose for Radiator Pressure Test Kit Art. 8097
8097-3	Adaptor Scania-113,-114,-124,-125 for Art. 8097
8097-4	Adaptor DAF-XF 95, XF 105 for Art. 8097
8097-5	Adaptor MB-Actros,-Atego,-Axor, IVECO for Art. 8097
8097-6	Adaptor IVECO-LKW-Daily 2000 C-Serie for Art. 8097
8097-7	Adaptor MAN-L 2000, -TGA for Art. 8097
8097-8	Adaptor Volvo-FH 12 for Art. 8097
8097-9	Adapter MB-Sprinter (-> 2006) for Art. 8097
8097-LEER	Empty BMC for Art. 1520



Tester for Diesel Injector Sockets

- for precise adjusting of the injection pressure and for checking the opening pressure of the nozzles, spraying shape, tightness
- includes 2 adaptors M12x1.5 & M14x1.5 and gauge up to 600 bar



Item #
62650

PRO +

Video Borescope with LED Lighting

- 5 x 3.5 cm large monitor with 320 x 234 pixels
- mini color camera with LED lighting
- hard to reach areas can be explored easily:
the 92 cm long, flexible swan neck is ideal for checking pipes and lines in the car or at home for damage or corrosion etc.
- the swan neck can be put into liquid up to the mark (approx. 95 cm deep)
- dimmable LED camera light
- NTSC video output for PC and TV
- Technical Data:
Probe diameter: 10 mm
Bending radius: (max.) 45 mm
Minimum focusing distance: 30 mm
Viewing Angle: 54°
Voltage supply: 4 Mignon batteries AA (not included)
Protection type: probe IP 67
Weight: 370 g
- package content: Video-borescope, Workcase, Magnet and hook attachment, Video cable, Instruction manual

In carrying case



Item #
63210



USB Endoscope with LED Light

- USB connection with 2 meter cable for viewing and saving pictures on the computer
- water proof mini color camera
- probe diameter 14 mm
- swan neck length 80 cm
- the USB endoscope is used together with a Windows compatible computer as an optical test device
- the color camera with adjustable LED lighting is located at the tip of the 80 cm long Swan neck
- the attached software allows videos to be recorded + snapshot function
- power supplied from USB interface
- technical data:
Optical resolution: 640 x 480 pixels
Bending radius: (min.) 60 mm
Light source: white LED
Minimum focusing distance: 60 mm
Field of view: 54°
Picture sensor: VGA CMOS
Weight: 350 g
- package content: USB-endoscope, Magnet attachment, Software-CD
Operating instructions

In carrying case



Item #
63220



Wireless Endoscope with Monitor

- tip Ø 5 mm
- wireless: no annoying cables between monitor and endoscope let you reach every corner
- 3,5 TFT LCD QVGA monitor
- working temperature 5- 55°C
- can focus clearly 1-6 cm away from objects
- 1 m long water-resistant endoscope tip
- stainless steel housing
- incl. arm hook-and-loop tape
- power supply: rechargeable Li/Polymer battery 3,7V
- wireless data transfer: 2,4GHz / 4 channels
- frame rate: ~30fps.
- exposure: automatic
- white balance: fixed
- picture resolution: 320x240 px
- light: 4 white SMD LED

In carrying case



Item #
3534

PRO +

Digital Refractometer

- for Propylen Glycol, Ethylen Glycol, battery acid, cleaner
- only 0,3 - 0,5 ml needed for exact digital measurement
- automatic Temperature Compensation
- automatic Shut Off after 3 minutes
- temperature accuracy: $\pm 1^{\circ}\text{C}$ (2°F)
- temperature resolution: 0.1°C (0.1°F)
- working temperature: 0°C - 40°C (32°F - 104°F)
- storage temperature: -10°C - 50°C (14°F - 122°F)
- alarm of Low Voltage & Low power consumption
- conversion between Centigrade and Fahrenheit Degree
- temperature measurement range: 0°C - 40°C (32°F - 104°F)
- operation humidity: lower than 90%.
- operation sea level: lower than 2000m.
- instantaneous reading
- stainless steel sample plate
- dimension : 130 x 70 x 40 mm
- weight: 150g
- power supply: 1.5v AAA+ (8000 operations = 1 battery life)

In storing pocket



Item #
1816

PRO +

Trouble-Code Scanner OBD II

- simply connect the OBD II plug in the diagnosis jack, and the scanner will show you the current failures in seconds
- works with all 2000 petrol cars and 2003 Diesel and newer cars & light trucks that are OBD II compliant (including CAN, VPW, PWM, ISO and KWP2000 protocols)
- reads and clears generic and manufacturer specific diagnostic trouble codes (DTCs) and turns off "check engine light"
- supports multiple trouble code requests: generic codes, pending codes and manufacturer's specific codes
- reviews the emission readiness status of OBD monitors
- retrieves VIN (vehicle identification number) on 2002 and newer vehicles that support Mode 9
- determines the malfunction indicator lamp (MIL) status
- easy-to-read crystal-clear backlit 2-line LCD display
- easy to use with one plug; highly reliable and accurate
- current independent unit
- no need for an additional laptop or computer
- small in size and conveniently fits in your palm
- safely communicates with the on-board computer
- incl. nylon bag, manual, software cd



Item #
63310

PRO +



3-piece Lock Ring Pliers Set for Drive Shafts

- for assembly of locking rings on driveshafts
- straight, bent and 30° offset type (available as 3 pcs. set or separately)

PRO +

Item #	Description
66110	3-piece Lock Ring Pliers Set for Drive Shafts
66109	Lock Ring Pliers for Drive Shafts, straight
66105	Lock Ring Pliers for Drive Shafts, 30° Bent Tip
66107	Lock Ring Pliers for Drive Shafts, 90° Bent Tip



Hose Cutter for up to 25 mm Ø

- for hose diameter up to 25 mm
- aluminum body, total length 185 mm
- for plastic tubes
- 65 Mn steel blade

Item #
1910

PRO



Hose Cutting Pliers, 4-16 mm

- blades made of stainless steel
- plastic housing

Item #
1912

PRO



Adjustable Hose Remover, Ø 45-120 mm

- small teeth inside jaws hold even oily hoses firmly
- with cable for more pulling power

Item #
487

PRO +



Removal Pliers for Fuel Lines

- fits VW, Audi, Volvo, Citroën, Fiat, Alfa and others
- 90° offset head allows work under difficult conditions

Item #
66101

PRO +



3-piece Hose Clamping Pliers Set

- all metal body
- flexible jaws
- sizes:
 - max. opening 18 mm, 205 mm long
 - max. opening 20 mm, 245 mm long
 - max. opening 32 mm, 305 mm long

Item #
1718

PRO +



Hose Clip Pliers with Bowden Cable

- universal handtool for installation and removal of 18-54 mm long elastic collars, even in narrow spaces (due to the bowden cable)
- length 630 mm

Item #
467



LED Under Bonnet Working Lamp with Rechargeable Battery

- 120 LED, LED LUM 12.000 MCD
- with **telescopic bar**, extends 110 to 190 cm
- 360° swivel hook
- Battery 7,2 V (6x AAA 900mAh NI-MH)
- works for 3 hours after fully loaded
- LED charge status indicator
- for 230 V, with 12 V adaptor

Item #
85410



Under Bonnet Working Lamp

- with fluorescent tube type T8, 30 watt
- with **telescopic bar**, extends 110 to 190 cm
- 360° swivel hook
- extra long power cord: 4.5 m (230 V)

Item #
85305



120 LED Twin Head Rechargeable Worklight

- tripod included, maximal height 175 cm
- Tripod head rotates 360°
- Ni-MH rechargeable 900mAh battery
- with charger, charging time approx. 6 hours
- operates for approx 3-4 hours
- durable ABS housing

In plastic case

Item #
85415



Energy Saving Work Light, 38 Watt

- with 1 VDE socket on the backside (max. 3600 Watt)
- dimensions: 27 x 27.5 x 13 cm (L x W x H)
- 1,8 m cable (H07RN-F 3G1.5mm²) with VDE plug
- splash protected
- adjustable stand and handle



Item #	Description
85320	Energy Saving Work Light, 38 Watt
85325	Spare Bulb (38W GR10q) for Art. 85320



4-Foot Stand for Art. 85320

- extendable from 162 - 265 cm

Item #	PRO+
85330	



LED-Worklight

- with magnetic base
- multi purpose
- flexible
- incl. batteries

Item #	PRO	
9300		



60 LED Lithium-Ion Work Lamp

- LED-LUM 12.000 MCD
- battery 7,4 V Lithium-Ion
- 3 hours drain time
- LED charge indicator
- for 230 V, with 12 V adaptor

Item #	PRO+	CE
85400		



Rechargeable 60 LED Light

- helpful, cordless inspection and work light
- 60 super bright and energy-saving LED bulbs
- magnetic holder & swivel hook
- integrated rechargeable battery (4 hour run-time)
- 230 V standard & 12 V car charger

Item #
85300



24 LED Magnetic Work Light

- for 3x AAA batteries (not included)

Item #
85405



LED Lighted Pick Up Tool and Mirror Set

- 1 magnetic pick up tool with LED light, extendable to 665 mm, capacity 450 g
- 1 magnetic pick up tool, capacity 3500 g ausziehbar bis 665 mm
- 3 inspection mirror, diameter of mirrors: 21-31-38 mm
- bag and batteries included

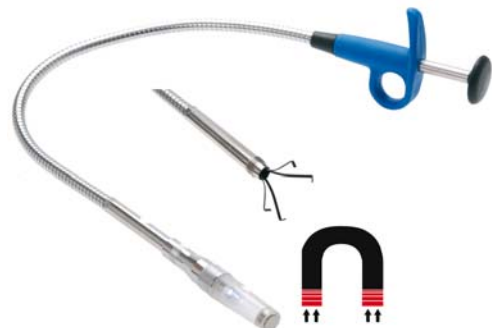
Item #
3095



Pick-up Tool - Magnetic Lifter - Light Tool

- useful 3-in-1 tool: not just a magnetic tip - there is also a light and a claw integrated in the tip that helps you to find lost small parts even in dark areas

Item #
3197



Flexible Pick Up Tool, Length 595 mm

- all steel made

Item #
3102



3 Ton Garage Jack

- hydraulic
- with 2 casters
- minimum height only 10 cm
- maximum height 53 cm
- heavy duty finish: weighs 45 kg

Item #
2998

PRO



2 piece Folding Ramp Set

- multi-purpose and mobile
- for loading und unloading quads, motor bikes, lawn mowers etc.
- can also be used as car stand when folded
- maximum capacity per ramp:
 - 1.100 kg (folded)
 - 350 kg (unfolded)
- space saving because it folds
- carrying handle for easy transport

Item #
2999

PRO +



Skeleton Type Heavy Duty Caulking Gun

- 300 mm long
- extra strong and heavy! (460 g)

Item #
3510

PRO +



Rechargeable Grease Gun, 12V

- 3-way loading: Cartridge + Bulk + Pump
- maximum working pressure: 6.000 psi / 420 bar
- 750 mm flexible hose
- with spring guard
- self-locking trigger
- battery capacity display
- 12 V / 1,7 Ah NiCd rechargeable battery
- incl. additional battery
- quick charger
- grease reservoir
- capacity: 14,5 oz
- grease output: 2,6 oz / min. at 1000 psi

Rechargeable battery allows mobile working - ideal for cars and machines, perfect equipment for all service teams.

In carrying case

Item #
3145

PRO +



7-piece Grease Gun Accessory Kit

- press-on 90° lube tool
- straight extension
- 300 mm hose extension
- slide-on 90° coupler
- rubber-tipped nozzle
- needle nozzle
- 360° coupler

Item #
3142



Tube Bending Tool 3-4.75-6 mm

- made from aluminium
- suitable for 3mm, 4.75 and 6 mm tubes

Item #
8228



Tube Bending Pliers, 4.75 + 6 mm

- chrome molybdenum steel
- suitable for 4,75 and 6 mm tubes

Item #
8229



9-piece Pipe Expander Kit

- 3/8", 1/2", 5/8", 3/4", 7/8", 1", 28 mm
- incl. countersink

In plastic case

Item #
3048



3-piece Vice Grip Pliers Set, Ø 6-16 mm

- for plastic hoses, suitable for following hose diameters:
pliers 1: 6 - 8 - 9 mm
pliers 2: 10 - 12 mm
pliers 3: 14 - 16 mm



Item #
4493

PRO +

All Purpose Chain Separating Tool

- for pressing rivets out of the chains,
simply push out the rivets



Item #
1743

PRO +

Mechanic's Creeper, 103x50x10 cm, with working light

- made from resistant PE material
- max. capacity: 150 kg
- 6 castors Ø 75 mm
- 103 cm length x 50 cm width
- LED working lamp for under car lighting included
- comfortable head rest



Item #
2996

PRO +

Magnet Tray, High Edge Finish, Ø 145 mm

- all purpose: use in workshop, construction, car-repair, etc.
- special high finish allows storing of non-magnetic small parts
like aluminium, brass, stainless steel as well as
large magnetic tools and parts
- plastic coating around magnet



Item #
67100

PRO +

Mobile Engine Stands

- rotates 360° and can be locked in 8 positions
- ball bearing wheels and castors
- turnable plate allows easy moving of the engine
- adjustable angle and distance

PRO CE

Item #	Description
9231	Engine Stand, 450 kg
9230	Engine Stand XL, 570 kg



Engine Support, 750-1450 mm

- for assembling and disassembling of engine and gearbox
- strong square-type tube
- adjustable width
- ball bearing wheels
- rubber pads protect fenders
- 9235 comes with two chains, 9234 with one (each chain 90 cm long)

PRO CE

Item #	Description
9234	Engine Support, 750-1450 mm, 300 kg
9235	Engine Support XL, 750-1450 mm, 500 kg



Gearbox Lifter, 500 kg

- for assembling and disassembling of engines, gearboxes, clutches
- height approx. 140 - 195 cm
- 4 ball bearing caster wheels
- compact construction, lightweight
- long lifting range
- fast lifting due to hydraulic foot pedal

Item # 9232 PRO CE



Digital Tire Pressure Gauge

- digital type
- operates with 3V CR2450 battery
- accuracy +/- 1%
- 0-12 bar measuring range



Item #
55420



Reversible Corner Grinder, extra long, flat Head

- for cutting disc size 100 mm / 4"
- free speed 14000 rpm
- air pressure 6.3 bar / 90 psi
- air consumption 88 L/min
- air inlet 1/4"
- hose size 3/8"
- length 376 mm
- weight only 1.44 kg
- sound level 84 dBA
- vibration 0.6 m/s²



Item #
3268



17-piece Micro Air Grinder Kit

- 54.000 speed /min
- 1/4" air hose connection
- air consumption 0,143 m³/min
- 90 PSI air pressure required
- various grinding stones and automatic oiler included



Item #
3249



Air Car Body Saw

- free speed: 9.000 rpm/min
- length: 235 mm
- weight: 770 g
- air consumption: 120 L/minute
- air pressure: 6,3 bar
- noise level: 72,0 dB (a)
- acceleration: 26,0 m/s²
- max. cutting capacity: 1,2 mm



Item #
3260



3 Sawing Blades for Air Body Saw Art. 3260

- one blade each 18-24-32 tooth
- made from high grade bi-metal
- cuts up to 1.2 mm thickness
- blade length 95 mm

Item #
3261

PRO +



5-piece Air Suction Valve Grinder Set

- incl. 4 sucking discs: 20, 30, 35, 40 mm
- diameter of the valve: max. 45 mm
- suitable pressure: 90 psi
- maximum air consumption: 100 l/ min.

Item #
1742

PRO +



Air Sucker

- for brake fluid extraction
- comes with 150 cm hose:
- internal-Ø: 5 mm, external-Ø 8 mm

PRO +

Item #	Description
8071	Air Sucker
8071-1	Hose 150 cm, Internal-Ø 6.5 mm, external-Ø 9.5 mm



Mini Air Spray Gun, 120 ccm

- aluminium body
- chromed surface
- PP cup 120 ccm, with filter
- stainless nozzle
- air inlet: euro type quick connector

Item #
3315

PRO +



Air Foam Gun

- for PU foam
- adjustable foam flow

Item #
3267

PRO +



Air Brush Tool Set

- spray pattern adjusts from 1/4 to 1/2 for maximum versatility
- for 1/4" air hose
- 15-50 PSI
- various accessories



Item #
3273

PRO

24-piece Spray Gun Cleaning Kit

- 3 large brushes
- 5 mini brushes
- 2 aluminum holders
- 6 micro needles
- 1 brass brush
- 1 large cleaning brush
- 1 plastic bottle with special lubrication fluid for air spray guns

In storing case



Item #
3270

PRO +

CV Boot Air Assembly Tool

- solid Aluminum construction
- 20-125 mm spread (adjustable)



Item #
162

PRO +

Air Hose, 30 m

- internal diameter 8 mm / external diameter 12 mm
- 1/4" BSP connection
- 360° swivel base



Item #
3275

PRO +

Spiral Coiled Air Hose, 10 m

- with quick connectors
- 1/4" air adaptor
- inner-Ø 6 mm, outer-Ø 8 mm

Item #
3265

PRO



Air Pressure Regulator, 0.275 - 11 bar

- continuously variable from 0,275 - 11 bar
- protects air tools by reducing the air pressure from the compressor
- can be mounted directly on the air tool or connected to the compressor / air distributor

Item #
3263

PRO +



Digital Battery Load Tester

- big 3-digit LED-Digital-Display
- quick indicator (3 LED lights) for Battery Power Status
- heavy and strong steel housing, chrome plated
- heavy, safe and strong clamps
- fixed Current Load - 100 Amps
- max. capacity of battery to be tested 250Ah / 1.000 CCA

Item #
63500

PRO +



12 V Car Battery Charger

- for 12V batteries (cars, motorcycles, boats)
- use for charging lead acid batteries 1,2 Ah to 120 Ah
- overload, short circuit and wrong polarity protection
- fully automatic charging and protection against sulphate collection
- prolonged connection possible for continued charging and battery maintenance
- CPU-Controlled
- input voltage: 220-240V 50-60Hz
- output voltage: 12 V 3,6-4,0 A
- charging voltage: 14,4 V / 0,8 A (Modus 1)
14,4 V / 3,6 A (Modus 2)
14,7 V / 3,6 A (Modus 3)
- charging current: max. 3,6 A

Item #
63505

PRO +



6/12 V Motorcycle Battery Charger

- use for charging lead acid batteries 1,2 Ah to 20 Ah
- automatic detection of battery voltage
- short circuit protection
- 6V / 12V selection switch
- designed for indoor use
- input voltage: 220-240V 50-60Hz
- output voltage: max. 0,5 V DC
- temperature: 10°C - 30°C

Item #
63510



12 Volt Oil Pump

- max. flow rate for engine oil approx. 3 l/min
- max. flow rate for Diesel or heating oil app. 250 l/h
- ideal equipment for quick and clean oil-changes
- the oil-pump works by connecting the clamps to the 12V car battery
- can remove 100% of the used oil if inserted through the dipstick opening
- complete with all necessary accessories

Item #
9910



Hose Pump

- Pump off quickly and safely - without electricity
- the flexible hose pump is a pump for decanting water, fuel and cleaning agents as well as other types of chemicals
- no manual suction necessary, which means no danger of swallowing unpleasant smelling or tasting liquids.

Just follow these three easy steps:

1. Place the suction head in the liquid which should be a higher level and other end of the tube in a container below it.
2. Move the suction head quickly up and down a few times
3. The liquid will automatically begin to flow through the tube.

Item #
4066



Yellow Warning Light, H1 Bulb

- 12 V connection
- quality H1 bulb
- magnetic base
- 360° rotating
- check traffic rules in your country before use

Item #
9762



285-piece XXL O-Ring Assortment, Ø 18-50 mm

- various assorted sizes ,
- acid, petrol, heat and oil resistant

Item #
8105



225-piece HNBR O-Ring Assortment, 3-22 mm Ø

- made from HNBR: especially for air conditioners etc.
- various sorted sizes, int. diameter:
3 - 4 - 4,5 - 5 - 6 - 7 - 8 - 9 - 10 - 12 -
13 - 14 - 17 - 18 - 20 - 22 mm

Item #
8121



180-pieces SAE Rubber Grommet Assortment

- in inch sizes:
40x 5/16"
40x 1/4"
40x 3/8"
20x 1/2"
25x 7/16"
5x 5/8"
5x 7/8"
5x 1"

Item #
8112



80-pieces Woodruff Key Assortment

- each 10 pcs. of sizes:
3x5x13 mm, 4x7.5x19 mm
4x5x13 mm, 5x7.5x19 mm
3x6.5x16 mm, 5x9x22 mm
4x6.5x16 mm, 6x9x22 mm

Item #
8117



350-pieces Flat Washer and Lock Washer Assortment

- flat washers:
Ø 3-4-5-6-8-10 mm
- lock washers
Ø 3-4-5-6-8-10 mm

Item #
8115



150-pieces Washer Assortment

- different sizes and shapes

Item #
8113



170-pieces Screw and U Type Cushion Assortment

- screw sizes
 - 40 pcs. 3 x 8 mm
 - 20 pcs. 4 x 16 mm
 - 15 pcs. 5 x 12 mm
 - 10 pcs. 6 x 20 mm
- 75 pcs. special U Type Cushion in different sizes and shapers

Item #
8114



92-piece Auto Fuse Assortment

- 15x fuses each 5-10-15-20-25-30 A
- 1 fuse puller
- 1 electric fuse tester

Item #
8110



97-piece Auto Fuse Assortment

- each 12 pcs. 3-5-7,5-10-15-20-25-30 A
- 1 fuse puller

Item #
8116



103-piece Grommet Installation Set

- 50 grommets 1/2"
- 50 washers
- 3-pcs installation set

Item #
8111



50-piece Linch Pin Assortment

- galvanized, zinc coated
- sizes: 16 x 4,5 mm, 18 x 6,0 mm
6 x 8,0 mm, 10 x 11,0 mm

Item #
8087

PRO +



92-piece Power Probe Test Lead Set

- use together with multimeters (e.g. BGS 2192, 2194, 2195)
- for checking all types of electric circuits
- perfect for maintenance of car electricity
- contents:
 - 72 testing leads (=36 male and 36 female terminals)
 - 2 pcs 5k Ohm potentiometers (variable resistor)
 - 2 LED stroboscopes
 - 2 SRS connectors
 - 2 alligator clips
 - 2 standard probes
 - 2 acicular probes
 - 2 connectors "1 female to 2 male"
 - 4 connectors "1 female to 1 male"

Item #
2186

PRO +



15-piece Universal Line and Accessories Assortment

- for use with multimeters, testing lights etc.
- 2 cables each 100 and 50 cm, red and blue
- 2 colored LED testing leads for polarity test
- 1 wire piercing probe
- 4 needle testing cables, red and black
- 2 testing tips, red and black
- 2 crocodile clamps, red and black

Item #
2185

PRO +



Pliers Type Multimeter

- for general usage
- alternating current: 200 / 1000 A
- AC voltage: 750 V
- DC voltage: 1000 V
- resistance 200 Ohm, 20kOhm, 20/2000MOhm
- acoustic circuit indicator
- testing leads and battery included

In wallet

Item #
2200



3-piece Safety-at-Work Set

- Ear Defenders (EN 352)
- Dust Mask (EN 149)
- Safety Goggles (EN 166)

Item #
3625



3-piece Cantilever Tool Box, Length 430 mm

- sheet steel
- in hammertone blue
- 200 mm wide, 150 mm high
- extra strong handle
- each piece packed in separate carton

Item #
3301



3-piece Tool Holder Set

- three tool holders with flexible opening
- incl. fixing screws

Item #
85801



Magnetic Wrist Band

- nylon strap fits comfortably for any wrist size
- strong magnetic surface
- to attract and collect nails, screws, bolts, bits
- can also be mounted on electric drills

Item #
9250



Anti Slip Rubber Mat, 122x61 cm

- all purpose
- with amazing anti slip function - all things stay in their place
- rubber mat can be divided by scissor to the size you need
- tearproof, shockproof and easy to clean

Item #
65701



Pulley Block, 180 kg

- chain length: 20 m
- 6 direction changes
- maximum height: 3 m
- maximum weight: 180 kg

Item #
59505



Digital LCD Protractor with Level, 450 mm

- for transferring and measuring angles
- HOLD-function
- lighted LCD-display
- working range angle 0 to 220°
- resolution 0,1°
- angle precision +/- 0,5°
- 2 vial (horizontal and vertical)
- aluminium housing
- incl. 9V battery

Item #
50440



Digital Protractor

- 3 in 1: protractor, dopmeter and level
- extra large LCD display with backlight
- beeper will sound at:
0°, 10°, 20°, 30°, 40°, 50°, 60°, 70°, 80°, 90°
- stores measured data
- display always reads upright
- degree and slope conversion
- auto power off, low battery warning
- measuring range: 4 x 90°
- resolution: 0,1°
- battery type: 3 V CR2032 x 3 pcs.
- working Temperature: 0°C - 40°C
- relative humidity: 40% - 80%
- dimension: 6" x 2" x 1,3"



Item #
9330



Luggage Scales with Measuring Tape, up to 32 kg

- important tool for business and leisure travel:
avoid airlines high overweight fees by checking
your luggage weight wherever you travel
- scale with handle and hook
- kg & lb scale, up to 32 kg / 80 lb
- incl. 1m built-in measuring tape for checking luggage size
- weighs only 150 g !



Item #
50861



10-piece Magnet Set, Ø 30 mm

- sticks to work benches, metallic flip charts, fridges, etc.
- multi-purpose: use for work, hobby, school etc.
- assorted colors

Item #
85810



10-piece Magnet Set "Smile", Ø 40 mm

- sticks to work benches, metallic flip charts, fridges, etc.
- multi-purpose: use for work, hobby, school etc.
- assorted colors

Item #
85812



3-in-1 Moisture Meter

- for measuring the moisture level in sawn timber, paper cardboard and hardened materials like mortar, concrete and plaster
- displays the moisture level immediately
- can also measure environment temperature
- measuring range:
 - wood: 6-42 % (accuracy 0,1 %)
 - building materials: 0,2 - 2,0 % (accuracy 0,1 %)
 - temperature: 0-40°C, oder 22-99°F (accuracy 1°C / 2°F)

Item #
2191



Precision Oiler

- fine control tip
- protection cap
- special "drop protect" pump head
- aluminium body
- for various applications::
 - automotive area, oil / atomizing, locks, model-railway, sewing machine hinge, power machines and many other mechanical uses

Item #
9985



Luggage Tie Down Strap, 100 cm

- maximum tractive power ca. 6 kg
- Ø 7 mm
- hook Ø 3 mm, with protective caps

Item #
85510



Luggage Tie Down Strap Set, 2 x 300 / 450 / 600 mm

- maximum tractive power ca. 6 kg
- Ø 7 mm
- hook Ø 3 mm, with protective caps

Item #
85516



8-Arm Luggage Tie Down Strap

- maximum tractive power ca. 6 kg
- 750x750 mm, Ø 7 mm
- hook Ø 3 mm, with protective caps

Item #
85518



2-piece CD / DVD Marker Set "Metallic", gold + silver

- one pen in metallic-gold and one in metallic-silver
- water proof
- especially good for writing on dark surfaces (CD, DVD, Blue Ray, Overhead foils)

Item #
85850



Pest / Rodent Repeller, Battery Version

- this highly effective Rodent/Pest Repeller radiates ultrasonic waves in all underground directions via a vibrating bar
- these ultrasonic radiations make rodents (moles, voles, shrews, mice, etc.) feel endangered and expel them without further use of excessive force
- the device works on four battery cells - no cable
- every thirty seconds a high-frequency sound is created and transmitted through all directions of the ground via ultrasonic waves with a frequency of approx. 30 kHz to 70 kHz
- these ultrasonic waves have an effective range of up to 300 square meters
- for best results and efficiency, we strongly recommend that two devices are installed every twenty meters
- power supply: 4 x Batteries D-1.5V (not included)

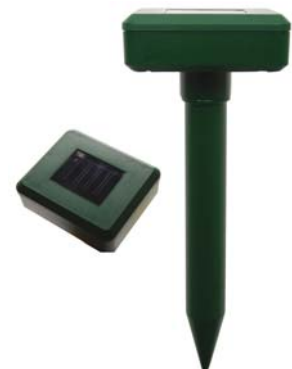
Item #
9030



Pest / Rodent Repeller, Solar Version

- this highly effective Rodent/Pest Repeller radiates ultrasonic waves in all underground directions via a vibrating bar
- these ultrasonic radiations make rodents (moles, voles, shrews, mice, etc.) feel endangered and expel them without further use of excessive force
- the device works on a solar energy cell - no cable
- every thirty seconds a high-frequency sound is created and transmitted through all directions of the ground via ultrasonic waves with a frequency of approx. 30 kHz to 70 kHz
- these ultrasonic waves have an effective range of up to 300 square meters
- for best results and efficiency, we strongly recommend that two devices are installed every twenty meters
- power supply: solar energy cell

Item #
9035



A	page
Air Brush Tool Set (Air)	460
Air Hose	460,461
Air Nippel	422
Air Tools	458-461
Alternator Bit and Socket Set	434
Angle Drill Attachment	409,410
Angle Nut Runner	397
Angle Screwdriver Sets	393,396,397
Anti Slip Rubber Mat	467
Assembly Wedges	426
Axial Joint Tool	433
B	
Baggage Scale	468
Ball Joint	400
Ball Joint Puller	428,429
Ball Joint Splitting	429
Ball Joint Tools	429,430
Ball Pein Hammers	422
Battery Charger	461,462
Battery Tester	461
Beacon	462
Belt Pulley Counterholding Wrench	441
Belt Tension Adjusting Key	441
Bit Adaptor	398
Bit Assortments	393-397
Bit Holder	397
Bit Sockets	398
Bits	393-397
Bits (Impact)	398
Blind Riveting Attachment	415
Body Repair Tool	422-424
Borescope	447,448
Brake Bleeding Key	419
Brake Caliper Brush	419
Brake Disc Vernier Caliper	419
Brake Maintenance Kit	418
Brake Pipe Wrenches	405,419
Brake Piston Wind Back Tools	418
Brake Spring Installer	420
Brake Spring Pliers	419
Brush Tool Set (Air)	460
Brushes	424
Bumping Hammers	422,423
C	
Camshaft Guide	442
Camshaft Sprocket Puller	443
Cantilever Tool Box	466
Car Body Repair Tools	422-424
Car Body Saw (Air)	458
Car Fuses	464
Car Wheel Wrench	421
Carburetor Tester	444
Caulking Gun	454
CD Marker	470

	page
Center Punch	410
Chain Saw Sharpener	412
Chain Separating Tool	456
Chargers	461,462
Chisel Set	414
Clamps	412
Clip Remover	426
Color Bits	394,395
Combination Spanners	401-404
Cooling System Tester	445,446
Corner Grinder (Air)	458
Counterholding Wrench	441
Crankshaft Tool	441
Creeper	456
Cushion Assortment	464
CV Boot Air Assembly Tool	460
Cylinder Head Bit Sockets	398
Cylinder Head Holders	444
D	
Dead Blow Bumping Hammers	422,423
Deep Sockets	391-395
Demonstration Bar (Gear Lock)	394
Diesel Injector Tester	446
DIY ToolKit	391
Door Upholstery Remover	424
Double Ring Spanners	402,403
Drills	408
Drive Shaft Pliers	449
Dust Mask	466
E	
Ear Defenders	466
Endoscope	447,448
Engine Stands	457
Engine Support	457
Engine Timing Tool Kits	435-440
Exhaust Air Hose	429
Extendable Extension Bars	400
Extendable Ratchets	399
Extension Bars	399,400
External Pullers	427
Extractors	392,393,397
Eyelet Pliers	414
F	
Files	413
Fixing Magnets	425
Flare Nut Spanners	405
Flaring Tool	421
Flexible Pick-up-Tool	453
Fluid Flasks	417
Foam Gun (Air)	459
Fork Type Splitter	430
Fuel Line Pliers	450
Funnel	418
Fuses	464

G	page
Garage Jack	454
Gear Lock Sets	390,394
Gearbox Lifter	457
Glow Plug Sockets	431
Glow Plug Tools	431,432
Goggles	466
Go-Through Sockets	390
Grease Gun	454
Grease Gun Accessories	455
Grinding Head (Honing)	420
Grommet Installation Kit	464
Grommets	463
H	
Hammers	407
Hexagon Key Sets	406
Hole Punch Pliers	414
Hole Saw Set	412
Honing Tool Grinding Heads	420
Hood Locking Clamp	433
Hook Set	427
Hose Clip Pliers	450
Hose Cutters	449,45
Hose Pump	462
Hose Remover	450
HSS Drills	408,409
I	
Impact Ball Joint	400
Impact Bits	398
Impact Driver	433
Impact Sockets	398
Inch / SAE Spanners	389,403,405
Inch Sets	389-391
Injection Pump Puller	443
Injector Extractors	443
Injector Sealing Cutter	442
Injector Socket Tester	446
Inserts	391-394
Internal Pullers	427
J	
Jack	454
Jig Saw (Air)	458
K	
Key Sets	406
L	
Lambda Thread Repair Cutters	434
Lamps	451-453
LED Lights	451-453
Level	467
Lever Set	421
Lights	451-453
Linch Pins	465
Line Assortment	465
Locking Clamp	433
L-Type Socket Wrenches	404

	page
Luggage Tie Down Strap	469,47
M	
Machinist's Hammer	407
Magnet Tray	456
Magnetic Extension Bars	400
Magnetic Light	453
Magnetic Pick-up-Tools	453
Magnetic Wrist Band	467
Magnets	425,468
Micro Grinder (Air)	458
Milling Drills	408
Mirrors	453
Moisture Meter	469
Multi Drill Set	409
Multimeter	466
N	
Needle and Hook Set	427
Needle Files	413
Nozzle Gauge	442
Nut Extractors	392,393
Nutsert Attachment	415
O	
Offset Impact Driver	433
Oil Drain Sockets	416
Oil Drain Thread Repair Kit	417
Oil Filler Tool	417
Oil Filter Caps	416
Oil Fluid Flasks	417
Oil Funnel	418
Oil Pump	462
Oiler	469
O-Rings	463
Oxygen Sensor Socket	434
P,Q	
Parallel Pullers	427
Pentagon Socket Set	420
Pest Repeller	470
Pick-up-Tools	453
Pipe Expanders	455
Pliers	449f.,455f.
Pliers Type Multimeter	466
Polishing Sets	414
Power Magnets	425
Power Probe Test Set	465
Precision Bits	396
Pressure Loss Testing Kit	444
Pressure Regulator (Air)	461
Propshaft Separator	433
Protractor	467,468
Pry Bars	425,426
Pullers	427,428
Pulley Block	467
R	
Radiator Pressure Tester	445,446

	page
Ramps	454
Ratchet Head Handle	400
Ratcheting Wrenches	405
Ratchets	399
Rechargeable Grease Gun	454
Refractometer	448
Repair Kit for Oil Drain Thread	417
Reversible Ratchets	399
Ring Spanners	401-404
Riveting Attachment	415
Rodent Repeller	470
S	
SAE Sets	389-391
Safety Goggles	466
Safety-at-Work Set	466
Sandpaper	413
Saw Sharpener	412
Scaffolding Ratchets	399
Scale	468
Scissors	413
Scrapers	427
Screw Extractors	392,393,406
Screwdrivers	405
Sealing Cutter	442
Sheet Metal Shear	415
Sliding Hammer Extractor	428
Small Part Assortments	463-465
Socket Sets	389-391
Sockets	391-393
Soldering Aid Pliers	425
Spanners	401-404
Spark Plug Sockets	430
Spark Plug Tools	430,432
Spark Plug Wrenches	430
Sped Drills	409
Spot Weld Drill Set	424
Spray Gun (Air)	459
Spray Gun Cleaning Kit	460
Spring Clamps	412
Spring Compressors	429
Square T-Handle	398
Stoning Hammers	407
Stud Extractors	435
Sucker (Air)	459
Support Stand	457
Surveyors Tape	412
Swivel Joint Handle	400
T	
T Star Key Sets	406
Tensioner Pulley Wrench	440,441
Thread File	410
Thread Repair Cutters	434
Thread Repair Kits	410,411
Tie Down Straps	470

	page
Timing Tool Kits	435-441
Tire Lever Set	421
Tire Pressure Gauge (Air)	458
Tire Valve Repair Kit	422
Tool Box	466
Tool Holder Set	466
Tool Sets	389-391
Torque Wrench	390
Trouble-Code Scanner	449
Truck Socket Set	391
Trunk Locking Clamp	433
Tube Pliers	455
Twin Head Light	451,452
Twist Drills	408
Twist Key Set	406
Twist Sockets	392,393
U	
Under Bonnet Working Lights	451
USB Endoscope	447
V	
Valve Grinder (Air)	459
Valve Seat Cutter	442
Valve Stem Ring Pliers	442
Vice Grip Pliers	456
W	
Warning Light	462
Washers	463,464
Waterpump Disassembling Tool	432
Waterpump Pliers	415
Weather Strip Molding Remover	426
Weld Drill Set	424
Wheel Wrench	421
Whitworth Spanners	404
Wiper Arm Pullers	428
Wood Drills	408,409
Woodruff Keys	463
Worklight	451-453
Workshop Creeper	456
Wrecking Bars	425
X,Y,Z	
XXL Spanners	403
Yellow Light	462

Item#	page	Item#	page	Item#	page	Item	page	Item#	page	Item#	page	Item#	page
56	394	1675	423	3095	453	5281	392	8146	437	30124	401	62645	444
93-1	427	1689	423	3102	453	5343	393	8155-2	440	30125	401	62650	446
93-2	427	1707	441	3104	424	5344	393	8159	435	30126	401	62670	444
93-3	427	1718	450	3142	455	5380-M16	398	8215	439	30127	401	63150	421
93-4	427	1725	397	3145	454	5380-M18	398	8216	439	30128	401	63151	421
93-5	427	1742	459	3177	412	7190	430	8218	439	30129	401	63210	447
93-6	427	1743	456	3178	412	7195	431	8219	439	30130	401	63220	447
93-7	427	1780	442	3180	412	7753	429	8221	432	30132	401	63250	426
125	417	1782	405	3197	453	7790	427	8222	440	30134	401	63310	449
145	430	1785	405	3249	458	7791	427	8228	455	30136	401	63500	461
146	430	1791	420	3259	415	7800	398	8229	455	30200	403	63505	461
147	430	1798	419	3260	458	7962	413	8230	421	30206	402	63510	462
148-1	420	1816	448	3261	459	7963	413	9030	470	30208	402	65110	411
149	432	1817	419	3263	461	7992	410	9035	470	30210	402	65260	432
162	460	1818	418	3265	461	7994	425	9137	425	30212	402	65505	435
197	400	1847	407	3267	459	8027	445	9139	426	30214	402	65511	435
198	400	1859	423	3268	458	8027-1	445	9230	457	30216	402	65550	430
215	399	1876	422	3270	460	8027-2	445	9231	457	30218	402	65590	434
228	400	1897	406	3272	422	8027-3	445	9232	457	30220	402	65591	434
258	400	1910	449	3273	460	8027-4	445	9234	457	30221	402	65592	430
305	399	1912	450	3275	460	8027-5	445	9235	457	30224	402	65601	432
306	399	1929	410	3301	466	8027-6	445	9250	467	30230	402	65630	431
307	399	1943	419	3315	459	8027-7	445	9300	452	30236	402	65700	428
308	399	1944	409	3444	393	8027-8	445	9330	468	30301	402	65701	467
309	399	1950	410	3510	454	8027-9	445	9762	462	30302	402	66101	450
310	399	1951	410	3534	448	8027-10	445	9910	462	32105	403	66105	449
311	399	1952	411	3625	466	8027-11	445	9945	425	35100	406	66107	449
379	424	1953	411	3850	407	8027-12	445	9966	428	35105	406	66109	449
390	415	1954	411	3852	407	8027-13	445	9967	428	35120	406	66110	449
391	415	1955	411	3854	407	8027-14	445	9983	417	35806	405	66155	431
392	415	1956	411	3855	407	8027-15	445	9984	417	50200	413	66157	431
406	415	1957	411	3856	407	8027-16	445	9985	469	50300	412	66350	443
407	415	1959-1	411	3857	407	8027-17	445	9986	418	50401	408	66380	444
467	450	1959-2	411	3858	407	8027-18	445	15105	390	50403	409	66510	419
487	450	1959-3	411	3870	422	8027-19	445	15110	390	50440	467	66525	433
569	414	1959-4	411	3871	422	8027-20	445	15500	391	50801	408	66701	441
798	427	1959-5	411	3872	422	8027-21	445	20100	395	50861	468	66703	441
958	390	1959-6	411	3873	422	8027-22	445	20210	392	52106	425	66720	440
980	429	1968	422	3990	414	8027-LEER	445	20801	396	52109	425	66725	441
1014	416	1970	442	3991	414	8056	417	20802	393	52120	425	67100	456
1018	416	1999	408	3995	414	8057	424	20803	396	52302	407	67215	429
1035	416	2000	408	4066	462	8071	459	20804	396	52303	407	68010	429
1070	401	2016	408	4247	434	8071-1	459	20805	397	52304	407	68012	422
1075	401	2085	410	4365	398	8087	465	25101	399	52305	407	68300	436
1076	401	2159	412	4493	456	8097	446	25102	399	52308	407	68310	436
1106	418	2183	390	4815	394	8097-1	446	25150	433	52310	407	80810	413
1107	391	2185	465	4816	394	8097-2	446	25310	400	52315	407	85300	453
1112	420	2186	465	4825	395	8097-3	446	25311	400	52320	407	85305	451
1113	418	2191	469	4845	397	8097-4	446	25312	400	52410	407	85320	452
1140-22	434	2200	466	4846	397	8097-5	446	30106	401	52712	414	85325	452
1173	434	2211	399	4847	409	8097-6	446	30107	401	53801	427	85330	452
1178	404	2229-1	398	5001	398	8097-7	446	30108	401	55420	458	85400	452
1199	404	2250	396	5002	398	8097-8	446	30109	401	59505	467	85405	453
1201	405	2251	395	5003	398	8097-9	446	30110	401	59804	412	85410	451
1228	404	2289	389	5004	398	8097-LEER	446	30111	401	62005	443	85415	451
1229	403	2299	389	5005	398	8098	445	30112	401	62050	443	85510	469
1240	419	2429	391	5007	398	8105	463	30113	401	62505	438	85516	469
1257	420	2435	392	5008	398	8110	464	30114	401	62605	442	85518	470
1258	420	2756	392	5009	398	8111	464	30115	401	62610	428	85801	466
1328	426	2790	433	5010	398	8112	463	30116	401	62615	437	85810	468
1329	426	2898	431	5014	398	8113	464	30117	401	62616	437	85812	468
1459	421	2899	431	5246-T60	394	8114	464	30118	401	62617	438	85850	470
1518	433	2996	456	5246-T70	394	8115	463	30119	401	62618	438		
1548	421	2998	454	5246-T80	394	8116	464	30120	401	62625	440		
1616	409	2999	454	5261	393	8117	463	30121	401	62630	443		
1632	424	3041	442	5262	392	8121	463	30122	401	62635	443		
1672	423	3048	455	5280	397	8122	442	30123	401	62640	441		