

## Brake Thread Repair Kit M12 x 1.5, VAG

- suitable for VAG models
- 1 step drill
- 1 drill guide with guide
- 1 tap
- 1 Wrench
- 10 threaded inserts

PRO +

Item #	Description
8408	14-piece Brake Thread Repair Kit M12 x 1.5, VAG
8408-1	HSS Drill 110 x 10 mm from BGS 8408
8408-2	Thread Sleeve M12 x 1.5 from BGS 8408
8408-3	Tap M12 x 1.5 from BGS 8408



## Hydraulic Flaring Tool

- suitable for
  - metric bubble flaring (5/32"), 6 mm, 8 mm, 10 mm
  - 45 degree double flaring 3/16", 1/4", 5/16", 3/8", 1/2"
  - GM fuel line forming 5/16", 3/8"
  - push-connect forming 1/4", 5/16", 3/8"
- includes various sizes of dies and adapters for working on flaring tubes of GM fuel lines, brake lines, transmission lines and air condition lines
- hydraulic pump for easy use

Item #  
8704

PRO +



## 9-piece Double Flaring Tool

- special tool for creating standard 90° flares as well as open F-type and double E-type flare (single and double lap flares)
- suitable for pipes with wall thickness up to 1mm
- 1 pipe clamp
- 1 spreader
- 7 dies 4.75 - 5 - 6 - 8 - 10 mm, 1/4", 1/2"

Item #  
8615

PRO



## Pullers, Reversible Twin Leg

- forged
- chrome plated

PRO

Item #	Description
7713	Puller, Reversible Twin Leg, 75 mm
7714	Puller, Reversible Twin Leg, 100 mm
7716	Puller, Reversible Twin Leg, 150 mm
7718	Puller, Reversible Twin Leg, 200 mm



## Pullers, Reversible Triple Leg

- forged
- chrome plated

PRO

Item #	Description
7723	Puller, Reversible triple Leg, 75 mm
7724	Puller, Reversible triple Leg, 100 mm
7726	Puller, Reversible triple Leg, 150 mm
7728	Puller, Reversible triple Leg, 200 mm



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

- 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)

PRO+ CV

Item #	Description
7790	Internal / External Puller, 2-arm + 3-arm use, 76-102 mm, 100 mm deep
7791	Internal / External Puller, 2-arm + 3-arm use, 76-178 mm, 180 mm deep



## Parallel Puller, 90x100 mm, fine thread

- forged **carbon steel**
- mechanic puller with standard hooks
- parallel puller hooks in every working position
- **can be used for inside and outside pulling via detachable and adjustable puller hooks**
- jaw depth 100 mm
- jaw width 90 mm
- outer jaw width 70- 140 mm
- 17 mm drive
- weight 1055 g

Item #  
7780 PRO+



## Parallel Puller, 130x100 mm, fine thread

- forged **carbon steel**
- mechanic puller with standard hooks
- parallel puller hooks in every working position
- **can be used for inside and outside pulling via detachable and adjustable puller hooks**
- jaw depth 100 mm
- jaw width 130 mm
- outer jaw width 70-180 mm
- 17 mm drive
- weight 1100 g

Item #
7781



## Parallel Puller, 160x150mm, fine thread

- forged **carbon steel**
- mechanic puller with standard hooks
- parallel puller hooks in every working position
- **can be used for inside and outside pulling via detachable and adjustable puller hooks**
- jaw depth 150 mm
- jaw width 160 mm
- outer jaw width 100 - 220 mm
- 22 mm drive
- weight 2935 g

Item #
7782



## Parallel Puller, 200x150 mm, fine thread

- forged **carbon steel**
- mechanic puller with standard hooks
- parallel puller hooks in every working position
- **can be used for inside and outside pulling via detachable and adjustable puller hooks**
- jaw depth 150 mm
- jaw width 200 mm
- outer jaw width 100-250 mm
- 27 mm drive
- weight 3450 g

Item #
7783



## Parallel Puller, 250x200mm, fine thread

- forged **carbon steel**
- mechanic puller with standard hooks
- parallel puller hooks in every working position
- **can be used for inside and outside pulling via detachable and adjustable puller hooks**
- jaw depth 200 mm
- jaw width 250 mm
- outer jaw width 140 - 340 mm
- 27 mm drive
- weight 7050 g

Item #
7784



## Universal Puller Set

- suitable for inside and outside use
- length of puller legs: 120 - 230 - 280 mm
- puller width: 60 - 180 mm



Item #
7785



## 12-piece Puller Set, 2- and 3-Leg

- pulling depth up to approx. 105 - 210 - 265 mm, pulling width up to max. 135 mm
- puller legs are suitable for 2- and 3-leg crossbars (included)
- free moving legs allow internal and external pulling operations
- hardened pulling feet (width approx. 25 mm, thickness approx. 2 mm)
- 2 spindles 165 + 280 mm with fine thread



Item #	Description
7760	12-piece Puller Set, 2- and 3-Leg
7760-1	Spare Claw for Puller Art. 7760

## Inside und Outside Puller, Two Legs, 1/2" Square Head

- suitable as inside and outside puller
- range as inside puller: 50 to 145 mm
- range as outside puller: 70 to 145 mm
- slotted puller arm also suitable for small sleeves, bearing, gears, pulleys and so on
- structured puller arm for better grip
- good centering by cone-shaped pressure piece
- incl. flat pressure piece
- spindle made of carbon steel



Item #
7737



## Universal Pulley Puller

- draws pulley by the holes without causing damage
- movable legs adapt to different pulley diameters
- suitable for different bolt patterns and distances
- 8 slots for holding pulling legs in different positions
- 18 mm drive pulling legs
- Ø 16 mm spindle with centering ball 24 mm drive



Item #
8273



## Wiper Arm Puller, 16-41 mm

- avoids damage of the car body and wiper arm
- fine thread
- height 85 mm
- fits BMW



Item #	Description
9965	Wiper Arm Puller, 16-41 mm
9965-1	Brass Pressure Piece for BGS 9965



## Wiper Arm Puller

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

Item #
9967



## Wiper Arm Puller Ford, Seat & Mercedes

- suitable for:  
Ford Galaxy  
Seat Alhambra  
Mercedes A and B class from 2005  
VW / Audi with internal washer nozzles
- allows easy and damage free dismantling of wiper arms
- pull depth: 45 mm

Item #
7796



## Wiper Arm Puller VW & Porsche

- suitable for:  
VW Touareg  
Porsche Cayenne and other SUV  
Ford Galaxy  
Seat Alhambra
- allows easy and damage free dismantling of wiper arms
- max pulling width: 60 mm
- pulling depth: 43 mm

Item #
7797



## Windscreen Wiper Arm Puller

- for removing the windshield wiper arms
- opening of puller fork: 16 mm
- maximum range: 24 mm

Item #
9974



## Wiper Arm Puller Audi Q7, 26.5 mm

- allows an easy and damage free dismantling of wiper arms
- opening: 26.5 mm

Item #
7792



## Wiper Arm Puller Audi, 15 mm

- suitable for Audi A3, A4, A5, A6
- allows a easy and damage free dismantling of wiper arms
- opening: 15 mm

Item #
7793



## Wiper Arm Puller VW, Opel & Honda

- suitable for:  
VW Lupo und Polo  
Opel Astra G, Zaphira B, Corsa C, Vectra C  
Honda Jazz, CRV, FRV and others
- allows easy and damage free dismantling of wiper arms

Item #
7794



## Wiper Arm Puller BMW & VW

- suitable for:  
BMW 5 series E39 and 7 series E38 until 2005  
VW Golf und Passat until 2005
- allows easy and damage free dismantling of wiper arms

Item #
7795



## 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, E65, E66, E67, E85, RR1
- adjustable plate



Item #	PRO+
9966	

## Wiper Arm Puller Set

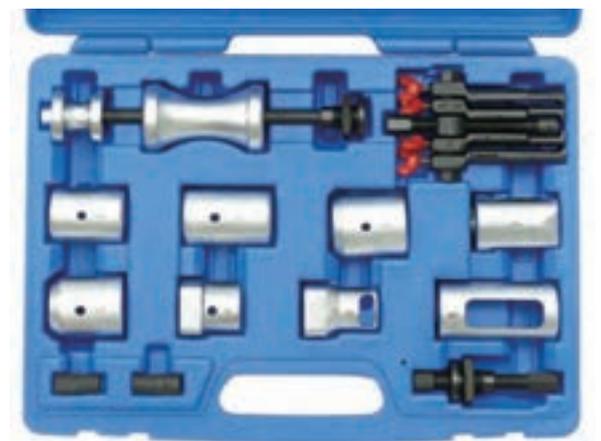
- allows trouble free disassembly of all current wiper arms
- perfect on rusty and stuck wiper arms
- helps protect nozzles inside the wiper arm by using the sliding hammer
- contains 1 sliding hammer, 1 pressure spindle, and 6 sockets
- socket 1 fits Alfa-Romeo, Audi, BMW, Citroen, Fiat, Ford, Honda, Jaguar, Mazda, MG-Rover, MB, Mitsubishi, Opel, Peugeot, Renault, Seat, Skoda, Volvo, VW, Mercedes
- socket 2 fits Alfa-Romeo, Audi, BMW, Citroen, Fiat, Ford, Honda, Hyundai, Jaguar, Land Rover, MB, Opel, Peugeot, Renault, Saab, VW, Mercedes
- socket 3 fits Alfa-Romeo, Audi, BMW, Fiat, Citroen, Ford, Mazda, MB, Mitsubishi, Opel, Peugeot, Smart, Volvo, VW
- socket 4 fits Citroen, Hyundai, MB, Opel, Mercedes
- socket 5 fits Alfa-Romeo, Audi, BMW, Jaguar, Land Rover, Mazda, MB, Volvo, VW
- socket 6 fits Citroen, Ford, Peugeot



Item #	PRO+
7758	

## 13-piece Windscreen Wiper Arm Puller Set

- universal application
- with sliding hammer and ejection arbor
- 2-arm gear puller, suitable for following cars:  
Audi, BMW, Chrysler-Jeep, Citroen, Fiat, Ford, Honda, Hyundai, KIA, Land Rover, Mazda, MG-Rover, Nissan, Peugeot, Porsche, VW, MAN, MB, Scania
- allows trouble free disassembly of all current wiper arms
- perfect on rusty and stuck wiper arms
- helps protect nozzles inside the wiper arm by using the sliding hammer
- contains 1 sliding hammer, 1 pressure spindle, and 8 sockets
- socket 1 fits Alfa-Romeo, Audi, BMW, Citroen, Fiat, Ford, Honda, Jaguar, Mazda, MG-Rover, MB, Mitsubishi, Opel, Peugeot, Renault, Seat, Skoda, Volvo, VW, Mercedes
- socket 2 fits Alfa-Romeo, Audi, BMW, Citroen, Fiat, Ford, Honda, Hyundai, Jaguar, Land Rover, MB, Opel, Peugeot, Renault, Saab, VW, Mercedes
- socket 3 fits Alfa-Romeo, Audi, BMW, Fiat, Citroen, Ford, Mazda, MB, Mitsubishi, Opel, Peugeot, Smart, Volvo, VW
- socket 4 fits Citroen, Hyundai, MB, Opel, Mercedes
- socket 5 fits Alfa-Romeo, Audi, BMW, Jaguar, Land Rover, Mazda, MB, Volvo, VW
- socket 6 fits Citroen, Ford, Peugeot
- socket 7 fits Audi, BMW, Land Rover
- socket 8 fits Audi, BMW, Citroen, Chevrolet, Daewoo, Daihatsu, Fiat, Ford, Land Rover, Mazda, MB, Mitsubishi, Porsche, Skoda, Smart, Suzuki, Toyota, Volvo, VW



Item #	PRO+
65700	

## Two Leg Puller for Battery Terminals and Windscreen Wiper Arms

- adjustable and suitable for most car and truck types
- adjustable puller arms 25 to 45 mm
- maximum range: 20 mm



Item #
7743



## Special Puller, extra long

- ext. puller for deeply set bearings etc.
- hardened
- 10 - 50 mm ext. Ø
- leg length 300mm



Item #
7731



## Miniature Puller, 19-45 mm

- especially for quick pulling of small ball-bearings
- can be used for: aircondition, generators, electronic pumps, impact tools, standard house holding machines, etc.
- max. capacity: 1 to., 19-45 mm, up to 73 mm deep



Item #
7738



## Ribbed Drive Puller

- pulling range 40 - 168 mm
- for generators, air conditioners, water pumps
- includes 10 mm hex wrench



Item #
7779



## 2 / 3 Jaw Puller Set

- allows working with 2 or 3 claws
- includes:
  - 3 puller feet 130 mm
  - 3 puller feet 205 mm
  - puller bridge with quick change and locking function
- pulling range 50 to 100 mm
- capacity 5 to.
- locking legs facilitate precise working

Item #
8506



## 10 ton Hydraulic Puller Set

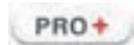
- hydraulic ram
- each 3 legs in following lengths: 100, 150 und 200 mm
- one twin head and one triple head
- 2 extension rods
- separator from 20-105 mm
- loose separators see art. 7742

Item #
7729



## 10-piece Blind Hole Bearing Puller Set

- 1x sliding hammer 910 g, length 285 mm
- 1x puller with 125 mm puller range
- 5x puller bolt for pulling inside bearing in sizes 8 to 34 mm
- 3x adaptor for removing components with inside thread in the following sizes: M6 x 1.0 - M8 x 1.25 - M10 x 1.5
- puller bolt and adaptors for use with slide hammer and two-arm pullers



Item #	Description
7710	10-piece Blind Hole Bearing Puller Set
7710-8x11	8x11 Puller Bolt from BGS 7710
7710-12x17	12x17 Puller Bolt from BGS 7710
7710-18x23	18x23 Puller Bolt from BGS 7710
7710-24x29	24x29 Puller Bolt from BGS 7710
7710-30x34	30x34 Puller Bolt from BGS 7710



## Hydraulic Ram for Pullers and Extractors

- causes up to 12 tons of pressure
- compatible with BGS 7729, 1525, 7774
- can be operated by spinner bar or wrench/ socket
- thread: UN 1-1/2"x16

PRO+

Item #	Description
7721-X	Hydraulic Ram for Pullers and Extractors
7721-X-KAPPE	Pressing Cap for Hydraulic Ram 7721-X



## 7-piece Ball Joint Remover Set

- allows disassembly of ball joints in various sizes
- suitable for cars, light trucks and SUVs
- 5 interchangeable forks 20 - 22 - 24 - 27 and 30 mm
- max. extractor width 125 mm
- heavy duty

Item #
1790

PRO+



## Internal / External Puller Set

- for shaft seals
- hardened carbon steel
- external pulling 40 to 80 mm
- internal puller 50 to 150 mm

including

- triple leg gear wheel puller
- triple leg int. ball-bearing puller
- 1 deep puller
- 1 convex screw connection

Item #
7734

PRO+

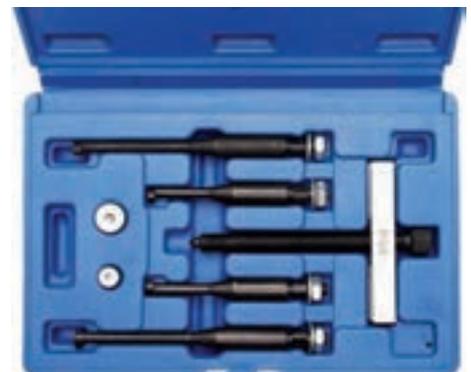


## 8-piece Steering Wheel Puller Set, 87+153 mm

- all-purpose
- esp. for Opel/Vauxhall + Ford
- depth of cut optional 87 or 153 mm

Item #
7752

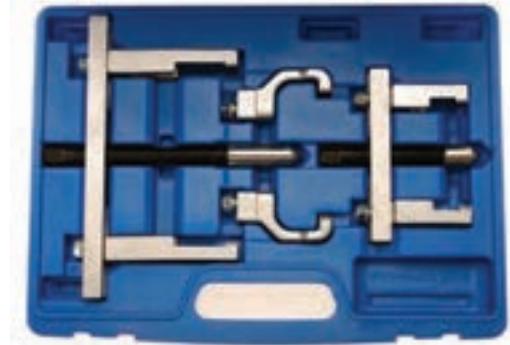
PRO+



## 10-piece Belt Pulley Puller Set

- for pulling and installing of belt pulleys at power steering pumps, generators, fan wheels, etc.
- 2 cross beams: 140 mm and 230 mm long
- 2 pairs of straight pullers: length 60 mm and 110 mm
- 1 pair of specifically formed pullers: length 60 mm
- all pullers and cross beams can be combined

Item #
7770



## Shaft Drive Belt Pulley Puller

- suitable for:
- VW Passat, Phaeton, Touareg
- Skoda Superb
- Audi A4, A6, A6 Quattro, A8, Allroad, Cabrio, RS4, RS6, S6, S8
- engines / engine codes:
- 3.0 L V6 30V: ASN, AVK, BBJ
- 3.7 L V8: AKC, AQQ
- 4.2 V8: ANK, AQF, AQH, AQJ, ARS, ARU, ASG, AWN, AWU, AVN, AVP, AXQ, BCY, BGH, BGJ, BHX
- 2.5 L TDI V6 Diesel: AFB, AKE, AKN, AYM, BAU, BCZ, BDG, BDH, BFC

Item #
1767



## 15-piece Puller Set for Differential Gearboxes

- for pulling of differential bearings
- tensionable puller, prevents slipping out
- 8 pressure pieces in different sizes
- suitable for cars, SUVs and vans

Item #
7736



## 10-piece Bearing Puller Set

- interchangeable heads, Ø 5, 6 and 8 mm
- max. range 100 mm

Item #
7744



## Separating Knife and Bearing Puller Set

- facilitates disassembly of bearings
- opening size 45 mm to 60 mm
- M10 x 98 mm pressure spindle with 19 mm hex drive
- M10 x 58 mm pressure spindle with 19 mm hex drive
- spindle heads are equipped with a ball tip for removal of bearings



Item #
8277



## Ball Bearing Separators

- HRC 42-45°
- forged
- chrome plated



Item #	Description
7741	Ball Bearing Separator, 30-50 mm
7749	Ball Bearing Separator, 50-75 mm
7742	Ball Bearing Separator, 75-105 mm

## 14-piece Splitting Knife Set for Ball Bearing Assemblies

- incl. shifter
- incl. 2 splitting knives: 32-56 mm and 56-78 mm
- for removing bearings, internal rings and other tightly and narrowly mounted parts



Item #
7750

Pullers

## 6-piece Splitting Knife Set for Ball Bearing 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



## Sliding Hammer Extractor

- suitable for PSA engines
- 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



## 6-piece Drive Shaft Socket Set

125  $\square$  1/2

- sockets 30 - 32 - 36 mm
- int. hex.: 14 - 17 - 19 mm
- especially suitable for use with air tools

Item #
5334



## 7-piece Drive Shaft Feeder Set

- for easy feeding of drive shaft into the wheel hub
- made of high grade steel
- based in a standardized industrial wheel bearing
- contains 6 spring bushings with different threads sizes
- can be used for following car types:  
 Subaru (M16X1.5)  
 VW Beetle, Touareg, Porsche Cayenne (M20X1.5)  
 BMW E30, E46 (M22X1.5)  
 BMW E36, Mercedes W203 (M24X1.5)  
 BMW E32, E34, E38, E39, X5 (M27X1.5)  
 BMW E32, E34, E36 (M30X1.5)

Item #
8245



Pullers / Drive Shaft / Hub

## 6-piece Puller Set with Sliding Hammer, forged

- for pulling wheel hub
- thread size of inner thread on sliding hammer is BSW 12G
- thread size of inner thread of pulling foot is BSW 3/4"
- total length with assembled pulling foot is approx. 51 cm
- thread adaptor BSW 12 G x BSW 3/4" included
- weight of sliding hammer: 1600g



Item #
7745



## Front Hub Puller, 100-115 mm

- for flanges with 4 and 5 hole with a hole distance of 100 to 115 mm
- carbon Steel
- thread size up to M14



Item #
7733



## Wheel Bearing Puller with Sliding Hammer

- for flanges with 4 and 5 hole
- hole distance of 100 to 115 mm
- thread size up to M14
- 4kg sliding hammer
- length 570 mm



Item #
7735



## Sliding Hammer for Item # 7712, 7733

- weight approx. 2,1 kg
- thread of sliding hammer: 5/8" - 18 UNF
- thread of adapter: 7/16" - 14 UNC



Item #
7719



## Pull Adaptor for Item # 7719,1677, 7733

- for use with sliding hammer 7719, 1677
- also replacement for 7735, 7745, 7733
- for flanges with 4 and 5 hole
- hole distance of 100 to 115 mm
- thread size up to M14

Item #
7712



## 10To. Drive Shaft Puller Set, hydraulic

- professional, stable puller for cars, vans and vehicle with bolt circle diameter SUV's of 120-215 mm
- especially suitable for glued or rusty drive shafts
- pressure force of the hydraulic cylinder is 10 To.,
- can also be used with impact spindle (included)
- quick and easy adjustment of the puller-number and diameter
- suitable for all wheel hubs with 3, 4, 5, and 6 holes
- hydraulic Spindle 10 t, 1 1/2" threaded ball and pressure, sliding with 17 mm hex drive, length 250 mm
- impact spindle with moving the firing pin and 30 mm hex drive, length 285 mm
- bump wrench 30 mm hex drive for spindle stroke, length 200 mm
- hydraulic pressure piece spindle extension 35 mm
- centering point for hydraulic spindle
- 101 mm adaptor disc for pull arms and hydraulic spindle
- 5x pull arms, length 175 mm

Item #
7681



## Hydraulic Drive Shaft Puller

- 12-ton hydraulic ram
- especially for glued and rusty drive shafts
- fits on 4- and 5-hole hubs with hole circle diameter of 98 to 125 mm
- for SUVs and light trucks
- spindle can be turned by hand or ratchet

Item #
7774



## Wheel Hub Puller with Heavy Sliding Hammer

- for removal of wheel hubs
- suitable for everyday workshop use
- fits on 4- and 5-hole hubs with hole circle diameter of 116 to 134 mm
- for SUV's and light trucks
- 6 kgs sliding hammer, total weight 12,7 kgs

PRO+

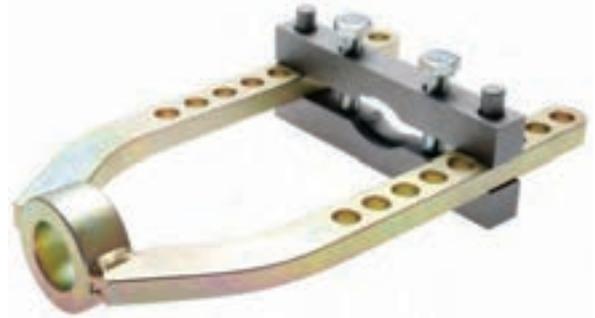
Item #	Description
7772	Wheel Hub Puller with Sliding Hammer
7773	3kg Additional Weight for Wheel Hub Puller BGS 7772

## Propshaft Separator

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

Item #
1518

PRO+



## Output Shaft Removing Tool for BMW 4WD

- to remove the output shaft from the front axle
- suitable for 4WD BMW 535iX, X3 and X5
- makes disassembly much easier
- dip insulated handles

Item #
8292

PRO+



## 8-piece Thread Repair Set for Drive Shafts / Prop Shafts

- sizes:
- M 24 x 1.50 - 13/16" x 20 UNEF
  - M 24 x 2.00 - 3/4" x 20 UNEF
  - M 22 x 1.00
  - M 22 x 1.50
  - M 20 x 1.50
  - M 20 x 1.25

Item #
1141

PRO+



## 4-piece Universal Axle Boot Set

- suitable as a replacement for many axle boots
- allows a cost- and time-saving repair
- 3 steps, joint side diameter approx. 80, 90 and 100 mm (unstretched)
- with inside holding nose at all 3 steps
- diameter of shaft side approx. 30 mm
- length approx. 128 mm
- extremely elastic and durable material
- especially suitable with BGS 162 boot slider
- includes lubricating grease for all types of drive shaft joints
- multistep boot clip, professional type



Item #
164



## Chain Pipe Cutters

- cuts exhaust pipes with diameters up to 85 mm
- re-adjustable during cutting action via butterfly nut



Item #	Description
133-Kette	Spare Chain for Pipe Cutter Item # 133
133	Chain Pipe Cutter, 250 mm
134	Chain Pipe Cutter, 250 mm, HSS Chain
130	Spare Chain for Pipe Cutter Item # 134

## Ratcheting Tube Cutter for Exhaust Pipes

- fits pipes Ø 28-67 mm
- cutting depth 6 mm
- ratchet has 60 teeth, 6° between each click



Item #	Description
66250	Ratcheting Tube Cutter for Exhaust Pipes
66250-1	Stainless Steel Pipe Blade for Tube Cutter BGS 66250
66255	Standard Blade for Tube Cutter BGS 66250
66251	Axis for Cutting Wheel of BGS 66250

## Exhaust Pipe Expander

- allows the installation of new exhaust pipes on old exhaust parts



Item #	Description
120	Exhaust Pipe Expander, 38-64 mm
127	Exhaust Pipe Expander, 28-44 mm
128	Exhaust Pipe Expander, 54-89 mm

## Exhaust Pipe Expander Set

- allows the installation of new exhaust pipes on old exhaust parts
- Expander 1 expands from 54-89 mm
- Expander 2 expands from 38-64 mm
- Expander 3 expands from 28-44 mm



Item #
129



## Exhaust Pipe Expander

- for reforming pipe connections
- allows a slight widening and reforming for e.g. partial replacement of exhaust systems
- reforming range: 30-80 mm
- length: 240 mm
- material: S45C steel



Item #
8564



## 2-piece Exhaust Rubber Hook Set

- for removing and mounting of exhaust rubber
- dip coated T-handles



Item #
8440



## Exhaust Pipe Remover

- for removing rubber straps on the exhaust system
- chrome plated
- length 300mm



Item #
121



## Exhaust Pipe Compressor

for VAG



Item #
1142



## Exhaust Pipe Rubber Ejection Pliers

- facilitates removal of rubber hangers
- 25° opening angle for easy operation
- length: 285 mm

Item #
8256



## Removing Pliers for Exhaust Rubbers

- facilitates the removal of exhaust pipe rubbers
- heavy duty, total length 360 mm
- especially suitable for vans and big cars
- with self centering movable pin

Item #
8258



## Exhaust Pipe Separating Tool

- for stuck-type hard to separate exhaust pipes
- suitable for pipe Ø 51mm-60mm
- solid steel jaws
- chrome plated screws for 17 mm & 3/8" drive
- 19 mm Zinc plated compression fitting
- compression range 0 mm - 120 mm

Item #
119



## Universal Flaring Tool Kit, adjustable (4-16 mm)

- quickly adjustable for creating conical / tapered flares
- for brass and aluminium pipes
- sizes 4-16 mm (3/16" - 5/8")

Item #
360



## Professional Flaring Tool

- for flaring of brake and hydraulic pipes
- can be used on copper, brass, aluminium and steel pipes
- for inside and outside flaring
- for coated and non-coated pipes
- incl. 4 pairs of jaws: 3/16" / 4,75 mm - 1/4" - 6 mm - 8 mm
- 5 mm jaws also available (see table)



Item #	Description
3057	Professional Flaring Tool
3057-14	Gripping Jaws 4.75 mm for BGS 3057
3057-15	Gripping Jaws 1/4" for BGS 3057
3057-16	Gripping Jaws 5 mm for BGS 3057
3057-17	Gripping Jaws 6 mm for BGS 3057
3057-18	Gripping Jaws 8 mm for BGS 3057
3057-13	Punch OP0 for BGS 3057
3057-19	Punch OP1, 4.75 mm for BGS 3057
3057-20	Punch OP1, 1/4" for BGS 3057
3057-21	Punch OP2, 1/4" + 4.75 mm for BGS 3057
3057-22	Punch OP1, 5 mm for BGS 3057
3057-23	Punch OP1, 6 mm for BGS 3057
3057-24	Punch OP2, 5 + 6 mm, for BGS 3057
3057-25	Punch OP1, 8 mm for BGS 3057
3057-26	Punch OP2, 8 mm for BGS 3057



## Hydraulic Flaring Tool

- for daily, professional workshop use
- 4.75 mm (3 / 16 "), 5,00 mm, 6,00 mm
- light weight, used directly on the vehicle
- suitable for steel, aluminum, brass and copper lines
- suitable for coated wires
- for double and convex flare to SAE and DIN
- includes pipe cutter with deburring tool



Item #	Description
8310	Hydraulic Flaring Tool
8310-1	Hydraulic Spindle from Flaring Tool BGS 8310



## 2-piece Professional Brake Bleeder Tool Set

- for quick and easy brake bleeding
- can be used by one person only
- large 1.5 l canister with aluminium nozzle and clamp for compressed air (lets you keep both hands free)
- gentle to the main brake cylinder as no pumping required
- can also be used for hydraulic clutch
- 1000mm silicone hose guarantees a long product life time
- accurately fitting rubber adaptor to be placed on the bleeding nipple
- 1 l canister with shut-off valve and universal clamp for refilling the brake system



Item #
8080



## Air Brake Bleeding and Oil Extraction Unit

- suitable for daily workshops use
- for a clean oil change
- usable for engine, transmission, rear axle oil and other non-corrosive liquids
- suction hose 9.8 - 8.0 - 6.7 - 4.5 mm Ø for extraction by suction through the dipstick tube
- 7.5 l container with base ensures stability to accommodate large amounts of oil
- suitable for oil extraction on all smart models but also for all other vehicles for which an oil change is to be performed without using a car lift
- with a special silicone brake breather hose with a valve for one-hand operation
- easy brake bleeding on brake systems of all types of vehicles
- the built-in hand vacuum pump allows brake bleeding even without compressed air



Item #
3155



## Professional Air Brake Bleeder

- air-assisted bleeding of brake and clutch systems
- brake fluid and compressed air is separated by a diaphragm
- pressure regulator and gauge for adjustment of working pressure (0 to 3 Bar)
- filling hose has a quick coupling for easy adapter installation
- connection hose also comes with a 1/4" quick coupling, 370 cm length
- with safety valve
- dimensions: Ø 280 mm, height 460 mm
- 5 liters brake fluid reservoir
- comes with one adaptor E20 for most common brake systems



Item #
8315



## Adapter Set for Air Brake Bleeder BGS 8315

- with quick coupling, fits BGS 8315 Brake Bleeder
- includes:
  - General Motors adapter Ø 43.5 mm
  - General Motors closing lid Ø 43.5 mm, to close the second opening
  - universal adapter Ø 45 mm
  - universal adapter, pressure piece,
  - 2 screw hooks with collars and chain
  - Euro Adapter for Audi, BMW, VW, Opel, Ford
  - Nissan Ø 49.5 mm
  - NISSAN Ø 34.5 mm
  - Honda Ø 56 mm
  - BMW, AUDI Ø 44.2 mm

Please note:

The set is suitable for Brake Bleeder BGS 8315 not apply to equipment with a european (compressed air) coupling



Item #
8316



## Brake Bleeder Tool

- one-man operation
- can also be used on clutch systems
- working air pressure 6-12 bar
- includes a hose for extracting liquids
- length x width x height: 225 mm x 135 mm x 192 mm



Item #
8066



## Brake Bleeding Bottle

- 1L plastic bottle
- with holding chain and hook
- variable length bleeding hose
- bleeding nipple adaptor



Item #
8519



## Brake Bleeding Valve

- allows bleeding of brake and clutch systems without a second person
- valve opens automatically when pressing the brake and closes automatically when loosening the brake, this prevents the suction of air
- allows continuously variable valve-opening pressure the brake bleeding valve to be adjusted for most brake systems
- suitable for scooters, motorcycles, quads, cars, trucks etc.
- blue anodized aluminum

Item #
8403



## Adaptor for Brake Bleeder BGS 8066 / 8080

- suitable for brake bleeding valve
- 6 mm hose connection
- with retaining hook

Item #
8066-1



## E20 Adapter for Brake Bleeder

- suitable for VOLVO C30, S40 > 2004, V50, FORD Focus >2008, Fiesta >2008, C-Max, Galaxy >2006, Kuga, S-Max and other European cars with 46,5 mm filling opening
- European connector 1/4"
- made of aluminum, with angled hose connector for working in tight spaces
- cannot be used with BGS 8315

Item #
9001



## 11 mm Line Wrench / Brake Pipe Wrench with Ratcheting Function

- brand new item, ring ends with **ratcheting function**
- length 160 mm, 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 tool slipping unnecessarily

Item #
1754



## Brake Pipe Wrench with Ratcheting Function, 10x11 mm

- ring ends with **ratcheting function**
- both sides have a 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 driving direction, the tighter the head closes around the nut; this prevents slipping over the nut
- wrench holds the long sides of the nut and not its corners, therefore it works also on nuts with damaged corners



Item #	PRO+
1722	

## Special Flare Nut Wrench, 175 mm long, 10x11 mm

- chrome plated
- with strengthened hex. ends
- double cranked



Item #	PRO+	CV
1760		

## N-Type Brake Bleeder Wrenches, single

- N-type shape
- ideal for working in hard to reach areas

PRO+	CV
------	----

Item #	Description
1753-7	7 mm Brake Bleeder Wrench, N-Type
1753-8	8 mm Brake Bleeder Wrench, N-Type
1753-9	9 mm Brake Bleeder Wrench, N-Type
1753-10	10 mm Brake Bleeder Wrench, N-Type
1753-11	11 mm Brake Bleeder Wrench, N-Type



## 5-piece Brake Bleeder Wrench Set, 7-11 mm, N-Type

- 7-8-9-10-11 mm (both sides)
- N-type shape
- ideal for working in hard to reach areas

In a robust zipper wallet

Item #	PRO+	CV
1753		



## 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



## Adjuster for Brake and Gas Pedal

- needed for alignments
- practical tool for testing and adjusting brakes and throttle control

Item #
9976



## 43-piece Brake Piston Wind-Back Set

- 43-pcs. all purpose set for setting back brake pistons
- with 3 new 5-point sockets:
  - 14 mm pentagon socket fits Opel / Vauxhall (Astra G, Zafira), Smart
  - special socket for Girling brakes
  - 19 mm pentagon socket fits Peugeot, Renault
- right & left threaded wind-back back tool
- suitable for Bendix / Girling und Smart car brakes
- including 2 hex keys 6 + 7 mm
- 2 splint drivers for Mercedes & Opel brake systems
- 3 backing pads for worn out brake pads and working in areas with limited space

Item #
1116



## 18-piece Brake Piston Wind-Back Set

- 18 pcs all-purpose set for setting back brake pistons
- right threaded & left threaded wind back tool
- suitable for many car models, including some brand new models
- includes list of matching car models



Item #
1119



## 13-piece Brake Piston Wind-Back Set

- 13 pcs basic set for setting back brake pistons
- right threaded wind back tool
- suitable for many car models
- includes list of matching car models



Item #
1127



## 16-piece Air Brake Piston Wind Back Tool Set

- including all popular adaptors
- for left- & right-side thread
- the direction is determined by moving the angled lever at the end of the hydraulic spindle
- fits for all thread pitches
- includes list of matching car models
- 1/4" air hose adaptor



Item #
1117



## Air Brake Piston Wind Back Tool

- for left- & right-side threads,
- the direction is determined by moving the angled lever at the end of the hydraulic spindle
- fits for all thread pitches
- to be used with BGS item # 1115, 1117, 1119, 1127
- 1/4" air hose adaptor



Item #
1118



## 7-piece Brake Caliper Tool for Iveco Trucks

- allows to reset the brake pistons on Iveco truck disc brakes
- includes 10 mm ratchet wrench, backing plate, spindle, 2 reset discs with 3 pins, micro bits int. hex.8 mm, 10 mm drive
- fits Iveco Stralis, Eurocargo, Daily



Item #
1104



## Brake Piston Wind Back Adaptor for Golf V / VI

- to be used with Art. 1120 / 1118
- completes sets Art. 1127, 1119, 1116, 1117, 1110



Item #
1106



## Brake Piston Wind-Back Tool, 3/8" Drive

- for turning back the brake pistons
- universal purpose
- 3/8" drive



Item #
1124



## Wind-Back Tools

- wind-back tool from sets 1127, 1119, 1116
- can be used with all pressure plates contained in BGS sets Nr. 1127, 1119, 1116 and 1117

PRO+

Item #	Description
1120	Wind-Back Tool, Cw (right threaded)
1121	Wind-Back Tool, Ccw (left threaded)



## Brake Piston Wind-Back Tool for floating calipers

- allows quick and easy pushing back of brake pistons on front and rear brake calipers (floating type) without hand brake function
- suitable for most car models



Item #
8499

PRO+

## Brake Piston Wind-Back Tool for fixed calipers

- allows quick and easy pushing back of brake pistons on front and rear brake calipers (fixed type) without hand brake function
- 115 x 50 x 6 mm, hardened pressure jaws
- suitable for most car models



Item #
8498

PRO+

## Brake Piston Wind Back Tool for VW T5

- special tool for VW T5



Item #
1113

PRO+

## Universal Brake Piston Wind-Back Tool with double guide

- for pushing back the brake pistons on e.g. front brake calipers
- suitable for most cars and vans
- two guides for very stiff pistons
- made of cast steel with carbon steel spindle

Item #
67309



## Brake Piston Wind-Back Tool, Universal

- universal tool for brake pistons without spinning device

Item #
1126



## Brake Piston Wind-Back Tool, BMW 7 series, MB S-Class, Porsche

- for winding back brake pistons of bigger vehicles:
  - MB S-class
  - BMW 7-series
  - Porsche
  - cross-country vehicles etc.

Item #
1123



## Brake Pad Key, 7 mm

Item #
1122



## Reamer Set for ABS Sensor Hole

- for cleaning the ABS sensor-mounting holes
- removes debris such as corrosion, dirt and residue of old ABS sensors
- prevents damage to the new sensors and ensures a precise fit
- includes following reamers, suitable for:
  - VAG, commercial vehicles Ø18 mm x 34 mm
  - VAG, BMW E36, E46, Ø18 mm x 23 mm
  - Ford, Mercedes A-Class, and Mazda Ø15 mm x 23 mm
  - BMW E38, E39, E52, E60, E61, E63, E64, E65, E66, E67, E70, E71 Ø14 mm x 322 mm
  - Skoda Fabia, Seat Ibiza, Insignia Opel, VW Golf IV, Polo 9N, T5 Ø10 mm x 29 mm
- hole of upper part of the sensor must be drilled out!
- dextrorotatory ratchet, 1/4" drive with offset head, 123 mm
- 10 mm HSS drill

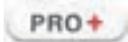


Item #
65525



## ABS Sensor Reamer Set

- it is recommended to use the reamers before renewing the ABS sensors
- suitable for Mercedes, Ford, Daewoo, Audi, BMW, Peugeot, Renault, VW and other cars
- reamer Ø18 mm x length 23 mm und Ø15 mm x length 23 mm
- 1/4" T-handle
- reamers can also be used with 1/4" ratchet



Item #	Description
65520	ABS Sensor Reamer Set
65521	Reamer Ø15 x 23 mm for ABS Sensor Reamer Set BGS 65520
65522	Reamer Ø18 x 23 mm for ABS Sensor Reamer Set BGS 65520

## Internal Hexagon Socket for Brake Calipers, very short type

10 3/8

- for loosening / tightening the bolts of brake calipers
- very low profile: 24 mm
- BGS 4995 especially suitable for rear brake calipers on Mercedes C-Class models
- BGS 4996 especially suitable for rear brake calipers on Audi A4, A6, A8 models



Item #	Description
4995	7 mm Internal Hexagon Socket for Brake Calipers, very short type
4996	8 mm Internal Hexagon Socket for Brake Calipers, very short type

## 3-piece Pentagon Socket Set, 1/2"

125  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	

## Brake Thread Repair Kit M9x1.25

- 10 thread replacers (available separately under item# 148-1)
- 1 step drill
- 3 drill guide plate (for VAG, Opel, Ford)
- 1 hand tap
- 1 hexagon wrench



Item #	Description
148	Brake Thread Repair Kit M9x1.25
148-1	Thread Replacers M9 x 1.25 for Art. 148
148-2	Step Drill for Brake Thread Repair Kit BGS 148
148-3	Screw Tap M9x1.25 for Brake Thread Repair Kit BGS 148

## Special Square File, 270 mm

- black polypropylene handle with hang hole
- all sides with deep and rough diagonally positioned rasps
- broken angles
- for cleaning brake calipers



Item #	
1792	

## Special Steel Wire Filled Cleaning Brush, 230 mm

- narrow finish
- ideal for cleaning disc brake calipers
- size: 90x22 mm



Item #	
1793	

Disc Brake

## Brake Caliper Brush, 230 mm

- steel wire

Item #
1798



## Brake Disk Precision Gauge, 160 mm

- inox  
- measuring range 60 mm  
In plastic box

Item #
1937



## 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 scala

In plastic box

Item #
1943



## 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 caliper brush for removal of brake dust and dirt from the brake caliper
4. Brass brake caliper brush for cleaning aluminium brake calipers  
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 caliper file, extra slim style (width 10 mm), especially appropriate for Japanese vehicles, for removal of brake dust, rust and dirt from the brake caliper
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 #	Description
1818	15-piece Brake Maintenance and Assembly Tool Set
1818-1	3/8" Internal Hexagon Joint Socket, 7 mm



## 6-piece Allround Brake Drum Tool Kit

- brake piston spanner
- brake spring pliers with flexible jaw
- hose clip
- brake piston clips
- hand brake cable pliers

Item #
1833



## Brake Spring Assembly Tool Aluminium Handle

- zinc coated
- for assembling and removing braking plate springs

Item #
1135



## Extraction Tool for Brake Shoe Spring

- for easy disassembly of the retaining spring on brake shoes
- for professional daily use in workshops
- suitable for spring plate diameters of 14 to 20 mm
- easy and safe handling
- length 240 mm, diameter 34 mm

Item #
8308



## Brake Spring Installer for Mercedes Parking Brake

- especially for Mercedes parking brake
- total length 140 mm

Item #
1791



## Brake Cable Spring Pliers, 210 mm

- for removing brake drum springs

Item #
1832



## Brake Spring Pliers with Claw, 330 mm

- with movable claw for riveted and glued pads

Item #
1817



## Brake Cable Spring Pliers, 215 mm

- for assembling and removing hand brake cables
- black finish jaw
- nickel plated handles

Item #
1831



## Brake Drum Gauge, 160-360 mm

- for brake drums, size between 160-360 mm

Item #
1939



## Brake Cylinder Honing / Cleaning Tools

6.3 1/4

- 1/4" drive shaft
- no cuts in the cylinder due to adjustable pressure
- jaws with grain size # 220 (# 180 for item 1157)



Item #	Description
1155	Honing/Cleaning Tool, 2-arm, Ø 19-56 mm, 30 mm Heads
1156	Honing/Cleaning Tool, 3-arm, Ø 32-90 mm, 50 mm Heads
1157	Honing/Cleaning Tool, 3-arm, Ø 51-178 mm, 100 mm Heads
1145	2 Spare Grinding Heads for Art. 1155, 30 mm Heads, Grain # 220
1146	3 Spare Grinding Heads for Art. 1156, 50 mm Heads, Grain # 220
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
1147	3 Spare Grinding Heads for Art. 1157, 100 mm Heads, Grain # 180



## 38-piece Brush Assortment

- all brushes with 1/4" drive
- for cleaning and deburring cylinders, bushings, pipes, etc.
- 12 nylon brushes:  
Ø 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
- 12 steel brushes:  
Ø 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
- 12 brass plated brushes:  
Ø 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
- 1 1/4" handle
- 1 extension 150 mm
- also for use on electric and air powered drills

Item #
3078

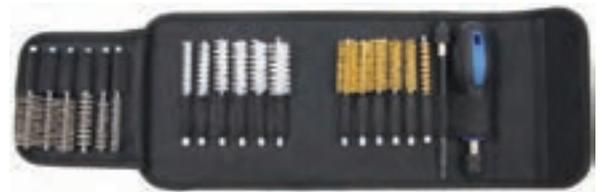


## 20-piece Brush Set

- 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



## Wire Brush, industrial steel, 5-rows

- industrial steel fill (0,31 mm)
- 300 mm long

Item #
3073



## General Purpose Wire Brushes

PRO

Item #	Description
3171	Steel Wire Brush, 260 mm
3172	Steel Brush, Brass coated, 260 mm
3173	Brass Steel Brush, 260 mm



### Wire Cup Brush, Diameter 75 mm

- with 6 mm shank
- crimped steel

Item #
3076



### Wire Disc Brush, Diameter 100 mm

- with 6 mm shank
- crimped steel

Item #
3077



### Wire Cup Brush M14x2, Diameter 65 mm

- knotted

Item #
3980



## Wire Disc Brush 115 mm, M14 x 2

- 18 twisted brush strands
- suitable for mounting on bench grinders
- for removal of rust, undercoating, etc.

Item #		
3981		



## Wire Disc Brushes

- for angle grinders
- hole 22,2 mm
- twisted wire steel



Item #	Description
3985	Wire Brush, Diameter 115 mm
3986	Wire Brush, Diameter 125 mm



## Wire Pencil Brush, 20 mm

- twisted wire steel
- shaft diameter: 6 mm
- brush diameter: 20 mm

Item #		
8363		



## Wire Pencil Brush, 28 mm, brass coated

- crimped steel
- shaft diameter: 6 mm
- brush diameter: 28 mm

Item #		
8364		



## 125 mm Rubber Backing Disc

- 6 mm shank

Item #		
3074		



## Special Wrenches for Fuel Pipe Fittings

- facilitates the disassembly / assembly of Diesel injection pipes on injectors and other pipe fittings
- length: 119 mm

PRO+

Item #	Description
8432	3/8" Special Wrench for BMW, Opel 2.5TD and Mercedes 17 mm Fuel Pipe Fittings
8433	1/2" Special Wrench for BMW 14 mm Fuel Pipe Fittings
8434	1/2" Special Wrench for BMW, Opel 2.5TD and Mercedes 17 mm Fuel Pipe Fittings
8435	1/2" Special Wrench for Mercedes 19 mm Fuel Pipe Fittings



## Double Open End Ring Wrench for Diesel Injector Pipes, 17 mm

- especially suitable for poorly accessible area
- double hexagon profile
- suitable for most diesel engines
- chrome finish

Item #
8291

PRO+ CV



## 6-piece Injector Removal Kit

- adaptors M14 x 1,0 - M17 x 1,0 - M20 x 1,0 - M25 x 1,0 - M27 x 1,0
- 10 mm internal hexagon bit socket with hole for retaining ring of injector needle

Item #
7771

PRO+ CROMO



## 1/2" Injector Socket, 10 mm Internal Hexagon

12.5 1/2

- for loosening the retaining ring of injectors is needed for injector disassembly
- with 7.5 mm bore

Item #
4478

PRO+ CV



## 4-Tooth Special Nozzle Socket for Mercedes, Neoplan, Setra

- sockets for working on the nozzle holder
- 32 mm outer hexagon drive, length 70 mm
- 4-tooth with internal thread M14 1.5 mm, fits Mercedes, Neoplan, Setra
- replacement tool for Art. 67210

Item #
67210-1



## 4-piece Special Truck Socket Set

- sockets for working on the nozzle holder
- socket 1/2" drive, 4-tooth, length 72 mm, fits Mercedes series: OM 401/421, 403/423, LA, A, 470
- socket with 32 mm outer hexagon, length 70 mm, 4-tooth with internal thread M14 1.5 mm, fits Mercedes, Neoplan, Setra
- socket 1/2" drive, 3-tooth, length 120 mm, fits Mercedes, MAN
- socket with 32 mm outer hexagon, length 120 mm, 4-tooth, fits MAN, Mercedes

Item #
67210



## Nozzle Extractor, Four Tooth for MAN and Mercedes

- extractor made of carbon steel with four tooth counterholder and 27 mm 6-pt
- suitable for MAN and Mercedes trucks
- M14 Spindle
- spindle with 6 mm hex drive for mounting nozzle on spindle
- allows easy and professional removal of the nozzle
- length: 105 mm

Item #
67230



## Multi-Point Socket for Mercedes Injection Pumps, 33 teeth

125 1/2

- for mounting and dismounting of injection pumps
- suitable for Mercedes-Benz models: 601, 602, 603, 605, 606, 615, 616 and 617

Item #
5350



## Extractor for Common Rail Injector Needles

- the 3-jaw puller allows a safe removal even of stuck injectors
- it is not necessary to drill a hole into the injector needle, thus even Injector needles which rotate when drilling a hole can be removed



Item #
8309



## Sockets for Diesel Injection Lines

125 □ 1/2



Item #	Description
2539	Socket for Diesel Injectors, 27 mm
2538	Socket for Diesel Injectors, 22 mm

## Injector Gasket Puller, 230 mm

- for removal of hard to loose copper rings

Item #
62630



## Diesel Nozzle Extractor, Bosch & Lucas

- facilitates the extraction of diesel nozzles
- internal thread suitable for Bosch and Lucas nozzles
- weight: 1000 g
- length: 230 mm

Item #
8571



## 4-piece Injector Socket Set

125  1/2

- for removing the electrical unit of injectors
- deep sockets with wide cut-out
- fits the most popular injectors in modern vehicles
- sizes: 25 - 27 - 29 and 30 mm

Item #
8351



## CDI Injector Puller

- suitable for e.g.: Mercedes CDI engines 611, 612 and 613
- for pulling out stuck common rail injectors
- special tool construction allows to pull injector with high force
- also suitable for small spaces

Item #
8244



## Puller for Common Rail Injector

- suitable for Mercedes CDI engines 611, 612, 613
- for pulling out stuck common rail injectors
- special tool construction allows to pull injector with high force
- heavy duty version



Item #	Description
8237	Puller for Common Rail Injector
8237-29	29 mm Slotted Socket for BGS 8237



## Stubborn Injector Puller for Mercedes CDI Engines

- fits Mercedes CDI engines 611,612,613, etc.
- for loosening injectors from the cylinder head
- no more disassembling of the cylinder head necessary

Item #
1678



## 8-piece CDI Injector Extractor Set

- with sliding hammer 1,70 kg
- extra short: only 225 mm
- especially for Mercedes-Benz CDI engines  
OM 611, 612, 613 .....
- total length 350 mm
- 2 extract adapters M17X1,0 + M27X1,0



PRO+

Item #	Description
62635	8-piece CDI Injector Extractor Set
62635-1	Injector Disassembly Claw for BGS 62635

## 3-piece Injector Extractor Set

- suitable for Mercedes-Benz CDI engines  
the series OM611, OM612, OM613
- 1x impact extractor (1,85 kg, 470 mm long)
- 1x injector claw
- 1x adapter with internal thread for direct mounting  
on the injector
- total length with adaptor 500 mm,  
with claw 570 mm



PRO+

Item #	Description
62005	3-piece Injector Extractor Set
62005-1	Injector Dismantling Claw for BGS 62005

## HDI Injector Puller

- allows the extraction of Bosch and Siemens  
HDI injectors
- disassembly of cylinder heads is not necessary
- suitable for most vehicles with  
PSA 2.0 HDI DW10, DW12 engines, also on  
Toyota, Mazda, Hyundai
- high tensile torque is reached by  
pulling the cylinder head
- 2 ball bearing puller spindles for  
injectors with different internal thread diameter
- 2 open sockets for removal of the electric unit
- high performance support frame with spindle bearings



Item #
8349

PRO+

Diesel Injector

## 5-piece Injector Sealing Cutter Set for CDI Engines

- for reworking the injector seat when removing the injectors
- 19 mm hexagon pilot
- 15 x 19 mm reamer fits various makes and models
- 17 x 17 mm reamer fits BMW, Peugeot, Citroen, Renault
- 17 x 19 mm reamer fits für Mercedes CDI
- 17 x 21 mm offset reamer fits for Fiat / Iveco



Item #
62605



## Grinder for 15 mm Injector Nozzle Seating Area

- suitable for Mercedes CDI
- for cleaning nozzle seating area and nozzle chamber before changing and replacing the injection nozzle or if nozzle has a leak
- turn manually and apply soft pressure for clean fit of the cylinder head and the nozzle and for cleaning the nozzle chamber
- can also be used with 13 / 17 mm sockets
- 15.5 mm grinding head diameter for nozzle shaft and fitting the nozzle in the cylinder head, length 230 mm
- 20.0 mm grinding head diameter for nozzle cleaning at the nozzle, length of grinding head is 35 mm



Item #
62606



## 7-piece Injector Sealing Surfaces Cutter Set

- 1 flat reamer 15 x 19 mm for universal application
- 1 flat reamer 17 x 17 mm for BMW / PSA / Renault
- 1 flat reamer 17 x 19 mm for BOSCH / Mercedes CDI
- 1 angled reamer 17 x 21 mm for FIAT/ IVECO
- 1 reamer 17 mm
- 1 locating pin with 19 mm outer hexagon
- reamers milled from high grade HSS steel

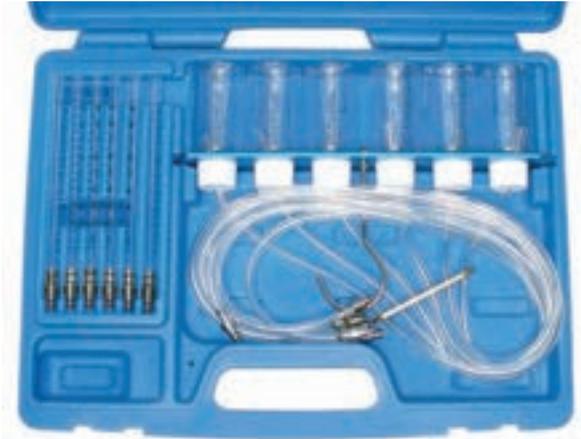


Item #
62604



## Common Rail Diagnosis Kit

- for common rail engines, up to 6 injectors
- suitable for various injector brands
- determination of the runback volume via glass tubes or measurement cartridges
- includes 6 glass tubes, 6 measurement cartridges with 70 cm connecting lines, mounted on aluminium bar with hooks



PRO+

Item #	Description
8101	Common Rail Diagnosis Kit
8101-1	6 Glass Tubes with Adaptor for BGS 8101

## Adaptor Set for Common Rail Diagnosis Kit BGS 8101

- to be used on injector nozzles together with common rail diagnosis kit BGS 8101
- adaptors fit all systems such as Siemens, Bosch, Denso etc.
- for Common Rail Diesel engines



Item #
8103

PRO+

## Common Rail Diagnosis Kit with 24 Adaptors

- for common rail engines, up to 6 injectors
- suitable for various injector brands
- determination of the runback volume via glass tubes or measurement cartridges
- includes 6 glass tubes, 6 measurement cartridges with 70 cm connecting lines, mounted on aluminium bar with hooks
- includes 24 adaptors for Denso C3, C1, Siemens C3, Delphi, Bosch



Item #
8102

PRO+

## Common Rail Diagnosis Kit, up to 8 Cylinder

- for testing the injectors of common rail engines with up to 8 cylinders (injectors)
- determination of the runback volume via glass tubes or measurement cartridges
- includes 8 glass tubes, 8 measurement cartridges with 70 cm connecting lines, mounted on aluminium bar with hooks



Item #
8104



## 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 #	Description
62650	Tester for Diesel Injector Sockets
62650-2	Connector M12 x 1.5 for BGS 62650
62650-3	Connector M14 x 1.5 for BGS 62650
62650-1	Plastic Container with Cover for BGS 62650

## Injector Nozzle Tester

- Tester contains gas canister, hand lever and pressure gauge with rubber protection
- for testing of injector nozzles
- suitable for all Diesel injector nozzles (except CDI pump-injector elements)
- several characteristics of the injector nozzles can be tested:
  - opening pressure
  - spraying pattern
  - tightness of the nozzle
  - gas spraying pattern
  - acoustic control (sound pattern)
- pressure gauge up to 400 bar
- connecting hose and 3 adaptors included M12 x 1.5 mm, M14 x 1.5 mm und M17 x 0.75 mm
- plastic gas canister with filter
- heavy aluminium construction



Item #
62655



## 2-piece Assembly Tool Set, 220 mm

- straight and bent (45° and 90°) tips

Item #
8015



## 5-piece O-Ring-Hook-Set

- incl. magnetic pick up tool

Item #
8035



## 4-piece Hook Set

- is needed for laying of cables, stuffing seats, etc.  
 - piercer (straight), hook 90° angled, hook with round head, double angled hook  
 - 2-component handles

Item #
8451



## Seal Removing Hook Set

- S-shaped hooks e.g. for loosening rotary shaft seals  
 - straight hook e.g. for loosening O-rings

Item #
8405



## Assembly Tool

- alloyed and hardened steel,  
 - for brake spring assembly, headlight springs

Item #
8018



## 2-piece Hook Set for Disassembly of Mercedes Dashboards

- suitable for many Mercedes models: W107, W116, W123, W124, W126, W140 and W210
- for easy removal of the instrument panel
- made from stainless steel



Item #
69510



## 3-piece Hook Set, extra long

- pulling hook, picking hook, grabbing hook
- each hook is 585 mm long



Item #
9130



## 18-piece Needle / Hook Set

- for the assembly of radios and radio-navigational system, for most car types and brands
- old and new radios from Blaupunkt
- old and new radios from Becker
- radios from Grundig
- original radios in Porsche models
- original radios in Mercedes models
- original radios in Audi models
- original radios in Ford models
- original radios in BMW and Opel models
- original radios in VW models
- original radios in new Skoda models
- in plastic wallet



Item #
8011



## 2-piece Radio Removal Tool Set

- for the most common car stereo brands
- folds to a handy size
- suitable for the following brands:
  - P01 Mercedes, VW, Audi, Becker, Renault, Alpine
  - P02 Mercedes, Porsche, Becker
  - P03 VW
  - P04 Skoda
  - P05 Becker
  - P07 Clarion (new models)
  - P08 Kenwood 2002
  - P09 Sony
  - P10 Kenwood 98 - 2001
  - P11 Fiat Bravo, Brava
  - P14 Panasonic
- 1 hex wrench for BMW
- 1 hook for Fiat, Grundig, Blaupunkt, Ford, PSA, Renault, Alfa, VW, Audi
- 1 hook for Blaupunkt, Peugeot, Clarion



Item #
8247



## 32-piece Radio Removal Tool Set

- removal tool set for most brands and makes of auto radios and GPS systems

contents:

- 4x P-01 - Mercedes, VW, Audi, Becker
- 2x P-02 - Mercedes, Porsche, Becker
- 2x P-03 - VW
- 2x P-04 - Skoda
- 2x P-05 - Becker
- 2x P-06 - Clarion
- 2x P-07 - PK Clarion
- 2x P-08 - RK-Kenwood 01
- 2x P-09 - Sony
- 2x P-10 - RK-Kenwood
- 2x P-11 - Fiat Bravo, Brava
- 1x screw driver- BMW
- 1x int. hex. wrench - BMW, Opel
- 1 set special hooks - Opel, Grundig, Blaupunkt
- 1 set special hooks - VW, Audi, Ford
- 1 set special hooks - Blaupunkt

Item #
8014



## 52-piece Car Radio Removal Tool Set

- allows damage-free removing of car radios
- includes U-hooks, special pentagon and internal hexagon wrenches
- suitable for following car models:
  - VW, Audi, Mercedes-Benz, Porsche, Skoda, BMW, Opel, Ford, Fiat Brava
- fits on following radios:
  - Becker (new and old version)
  - Blaupunkt (new and old version)
  - Clarion (new and old version)
  - Grundig
  - Kenwood as of 1998
  - Sony as of 1998
  - Panasonic (new and old version)
  - Pioneer
  - JVC
- material: carbon steel, nickel plated & black finished

Item #
8013



## Lead Perlon Cable 15 m x 3 mm

- for installing antenna cables etc.

Item #
1990



## Trim Strip Wedge 100x45 mm, with hang Hole

- plastic
- for damage-free removal of trim strips



## Trim Strip Wedge 185x25 mm

- plastic
- for damage-free removal of trim strips



## 5-piece Assembly Wedge Assortment

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



## 5-piece Trim Strip Set, various Shapes

- length 160-200 mm
- manufactured from high end special plastic
- various shapes for working on trim strips, rubber gaskets, interior, door trims, switches, etc.



## 11-piece Car Interior Lining Set

- various plastic levers for a safe and reliable assembly and disassembly of car lining, plastic clips, rear view mirrors etc.
- especially designed for narrow and hard to reach working conditions
- fibreglass reinforced plastic

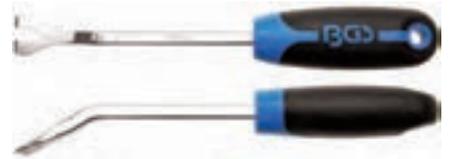
in plastic wallet



## Door Trim Removing Tool, 260 mm

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

Item #
3092



## Door Trim Removing Tool, 240 mm

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

Item #
3193



## Door Upholstery Remover, 235 mm

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

Item #
3104



## Interior Linking Hook

- especially useful for stuck linings
- T-handle for easy pulling
- offset head with 9 mm opening
- perfect for hard to reach areas
- universally applicable for all types

Item #
8285



## Interior Lining and Clip Removal Tool Set

- for fast and easy dismantling of car interior linings
- adapts to versatile applications because of 3 different sizes (4, 8 and 10mm) and 2 different lengths (235 mm and 495 mm)
- ergonomic handle
- with hanging hole

Item #
1326



## Window Lift / Door Handle Clip Removing Tool, 270 mm

- hardened
- prevents damaging the door trim

Item #
3543



## Door Weather Strip Molding Remover

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

Item #
1329



## 5-piece Special Clip Remover Set

- 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 Handle Clip Pliers

- allows you to remove the window crank clips
- prevents damage to the door panel
- coated handle
- 220 mm length
- riveted jaws
- dip insulated handles

Item #
3542



## Door Trim Pliers

- for loosening plastic clips on door trims, bumper straps, etc.
- black finish jaw manufactured from hardened sheet steel

Item #
3192



## Doorclip / Rivet Pliers, 230 mm

- revolving head 0-90°
- for opening and/or loosening two-piece rivets (plastic clips on motorcar doors and car body components)



Item #
3545



## Door Pin Removing Tool, 370 mm long

- for assembly of heavy finish door pins ( 16 mm)
- this tool guarantees a quick and secure assembly of car doors



Item #
1800



## Door Pin, 5x115 mm

for item 1800

Item #
1801



## 8-piece Door Hinge Tool Set

- especially assorted for working on VW/Mercedes-Benz/ Porsche/Audi door hinges

contents:

- 1 screwdriver T 30 (length 360 mm)
- 1 T-handle screwdriver T 20 (length 240 mm)
- 1 reversible bit ratchet (length 240 mm)
- 5 bits: T40-45, spline M4,8,10



Item #
3539



## Seal Puller, 320 mm

- for assembly and disassembly of rotary shaft seals
- 320 mm length for fast and easy disassembly
- hardened pulling lever for long product life time
- anti-slip coated handle

Item #
122



## Double Hook with Joint for Removal of Shaft Gaskets

- for dismantling of shaft gaskets
- quick and easy disassembly with 320 mm lever
- lever adjustable in five positions of up to 45°
- coated handle

Item #
118



## Seal Ring Double Hook Set

- facilitates the removal of the radial shaft sealing rings
- differently bended double hooks for different working angles
- also suitable for deep-seated seals
- extractor claw can be extended
- with slide hammer

Item #
68344



## High End Emergency Car Opening Set

- sold only to authorised workshops
- universally applicable
- heavy duty model

Packed in a wallet

Item #
3546



## 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



## Telescopic Stand for Engine or Trunk Lid

- adjustable from 53 to 120 cm
- for easy alignment of trunk lid and hood
- can be locked in many positions by turning the telescopic rods
- only a few centimeters more opening width can make working more convenient
- also useful when changing the original openers or dampers and during car body repair jobs
- rubber feet on both ends prevent slipping away
- low weight, made from aluminium



Item #
8246



## 12-piece Airbag Tool Kit

- for disassembling the air bag unit
- suitable for following car types:
  - VW Bora, Golf, Jetta, Lupo, New Beetle, Passat, Polo
  - Audi A4, A6
  - BMW, Mercedes-Benz, Opel, Renault: all types
  - Seat: all types built in or after 1999
  - Scoda Fabia, Oktavia, Superb
- incl. 2 special T-30 Bits (tamperproof and non-tamperproof)



Item #	Description
8147	12-piece Airbag Tool Kit
8147-T30	Special T-Star Socket, 1/4", T30 for BGS 8147

## 7-piece Pipe Connector Loosening Clip Set

- for pipes  $\varnothing$  1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8"
- quick connecting sleeves in air conditioning systems and fuel lines

On PVC display board

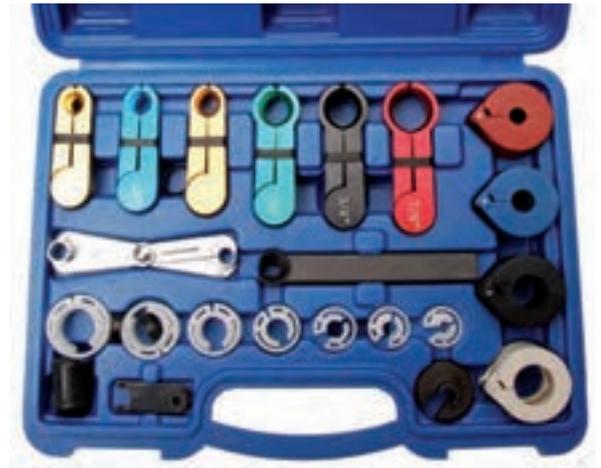


Item #
8009



## 22-piece Pipe Connector Removing Kit

- removing and disconnecting tools for pipe connectors
- for air conditioning, fuel, air and oil pipes
- fits nearly all brands



Item #
8036



## Fuel Line Disconnecting Tool BMW

- facilitates the separation of fuel line connections
- made of anodized aluminum
- suitable for 3-series built during 1999 to 2005, and X5



Item #
66150



## 19-piece Terminal Tool Set, multi-brand

- removes wires from terminal blocks without any damage
- for round and flat terminal blocks
- fits various brands, for example VW, Opel, Ford, Mercedes, BMW and many more
- protective caps prevent damage of the blades
- each one tool for:
  - round contacts Ø 2,3 mm
  - round contacts Ø 3,5 mm
  - flat contact Standard 1,48 mm
  - flat contact Micro-Timer 1
  - flat contact Micro-Timer 2+3
  - flat contact Maxi-Power-Timer
  - flat contact PIT POD
  - flat contact JPT/SPT
  - 3 replacement bushes

In plastic case with foam



Item #	Description
60100	19-piece Terminal Tool Set, multi-brand
60100-1	3-piece Replacement Sleeve for BGS 60100
60100-CE56	Cable Connector Loosening Tool CE56 from BGS 60100
60100-CE91	Cable Connector Loosening Tool CE91 for BGS 60100

## 11-piece Terminal Tool Set, for VAG+Porsche

- removes wires from terminal blocks without any damage
- for round and flat terminal blocks
- special set for VAG
- protective caps prevent damage of the blades
- also suitable for some connectors in the BMW, Daimler, Chrysler, Fiat, Ford, Honda, Jaguar, Opel, Mazda, Mercedes Benz, Mitsubishi, Porsche, PSA, Renault, Saab, Toyota, Volvo, VAG
- for round contacts with diameter 1.5, 2.3 and 3.5 mm
- for contacts with one locking lugs 6.3, 0.63 / 1.6 and 2.8 / 5.8 mm
- for contacts with two symmetrically locking lugs in 1.6, 2.8 / 5.8 and 9.5 mm
- for contacts with two asymmetrically locking lugs in 2.8 mm

Item #
60120



## 14-piece Terminal Tool Set, for MAN+Volvo

- removes wires from terminal blocks without any damage
- for round and flat terminal blocks
- special set for MAN and Volvo
- protective caps prevent damage of the blades
- also suitable for some connectors in the BMW, Daimler, Chrysler, Fiat, Ford, Honda, Jaguar, Opel, Mazda, Mercedes Benz, Mitsubishi, Porsche, PSA, Renault, Saab, Toyota, Volvo, VAG
- for round contacts with diameter 1.5, 3.5, 4.0, 2.5 and 4.0 mm
- for contacts with one locking lugs 2.8 / 5.8 mm
- for contacts with two symmetrically locking lugs in 2.8 / 5.8 and 2.8 mm
- for contacts with multiple locking lugs in 1.5 and 2.5 mm

Item #
60150



## 23-piece Terminal Tool Kit

- universal range for virtually all vehicles
- for damage-free unlocking of terminals and connectors, e.g. for ABS, climate sensors, radios, PDC, trailer coupling modules, and much more
- faults due to corrosion or connection defects can be repaired quickly
- suitable for round and tab contacts
- indispensable for technicians and vehicle electricians

Item #
60160



## Letter Punch Sets

- faces in accordance with DIN 1451,
- suitable for punching letters into steel and iron
- capital letters: A to Z
- symbol / characters: &

packed in plastic case



Item #	Description
2030	Letter Punch Set, 3 mm
2031	Letter Punch Set, 4 mm
2032	Letter Punch Set, 5 mm
2033	Letter Punch Set, 6 mm
2034	Letter Punch Set, 8 mm
2035	Letter Punch Set, 10 mm



## Figure Punch Sets

- faces in accordance with DIN 1451
- suitable for punching letters into steel and iron

packed in plastic case



Item #	Description
3031	Figure Punch Set, 2 mm
3028	Figure Punch Set, 2.5 mm
3033	Figure Punch Set, 3 mm
3034	Figure Punch Set, 4 mm
3035	Figure Punch Set, 5 mm
3036	Figure Punch Set, 6 mm
3038	Figure Punch Set, 8 mm
3039	Figure Punch Set, 10 mm
3040	Figure Punch Set, 12 mm



## Spring Compressor Set with 3 Pairs of Jaws

- maximum capacity approx. 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 #	Description
980	Spring Compressor Set with 3 Pairs of Jaws
980-1	Spindle for Spring Compressor Set BGS 980
981	6-piece Replacement Protection Jaw Set for BGS 980
982	180-240 mm Jaws, BMW & Renault, Special size for BGS 980



## Universal Coil Spring Compressor

- suitable for small to medium sized vehicles
- two sliding hooks on carrier rail prevent slipping
- 22 mm spindle drive
- load capacity: 15.000 N (1.500 kg)
- not suitable for impact wrenches
- VPA/GS approved



Item #
994



## Spring Compressors for MC Pherson Strut

- professional spring compressor for daily use in workshops
- includes 2 spring plate pairs, universally applicable for almost all MC Pherson struts
- maximum load: 1.650 kg (16.150 Nm)
- tension: 220 mm
- spindle: M 15 x 300 mm

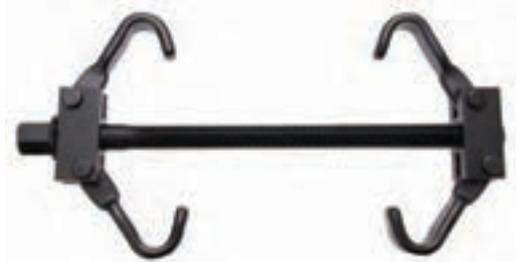


Item #
999



## Coil Spring Compressor

- black finish
- length 300 mm
- min. width of the clamping arms: 105 mm (important for access by wishbone)
- max. spring diameter: 150 mm
- clamping range: 185 to 380 mm (may vary depending on spring diameter)
- spindle length 300 mm
- torque via 23 mm hex.



Item #
1131



## Spring Strut Spanner Set for Mercedes Benz

- max. compressive force up to 2500 kg
- suitable for Mercedes Benz models: 123-124-126-201-140-202-210
- incl. 2 spring retainer sets for front and rear axle (main unit has to be attached in the middle)



Item #	Description
1136	Spring Strut Spanner Set for Mercedes Benz
1136-1	Spindle from Spring Strut Spanner Set BGS 1136
1136-2	Spindel Secure Pin for BGS 1136

## Coil Spring Compressor, 2500 kg

- professional spring compressor for daily workshop use
- for springs with a diameter of 90 to 140 mm
- especially suitable for vehicles with small hole in the spring control arm, down to Ø 30 mm e.g. VW Touran, Citroen C3, Skoda Octavia, Peugeot 107
- suitable for double wishbone / multi-link suspension systems
- special socket prevents overloading of the spring compressor
- includes:
  - 2 tensioning jaws 90 to 120 mm
  - 2 tensioning jaws 120 to 140 mm
  - special spindle for limited spaces Ø 30 mm
  - torque limited extension bar
- maximum load: 25000 Nm
- minimum distance: 96 mm
- maximum distance: 220 mm
- maximum spring travel: 124 mm



Item #
985



## 31-piece Wheel Bearing Tool Set

- universal use on most wheel bearings
- allows disassembly and assembly of the wheel hub and the wheel bearings
- includes:
  - pressure plates with diameters of : 50 - 55 - 59 - 63.3 - 66.6 - 70.3 - 71.5 - 73.1 - 73.4 - 74.8 - 77.5 - 81.5 - 83.4 mm
  - sleeves with following diameters: 76 - 86 - 91 - 102 mm
  - 3 extractor bolts M12 x 1.5
  - 3 extractor bolts M14 x 1.5
  - spindle 7/8 "x 300 mm (including thrust bearing)
  - pressure nut 32 x 60 mm
  - pressure sleeve Ø 38 x 40 mm
  - washer Ø 40 x 3 mm



Item #
67301



## Pull and Press Sleeve Kit with 4 Spindles

- universal type for all car models
- also for assembly or disassembly of silent bearings, rubber- and ball bearings
- also suitable for rubber bushes and rotary shaft seals
- smooth running because of high-quality ball bearing on spindle screw nut
- four 350 mm spindles in M10, M12, M14 und M16
- 20 inner pressure pads in 34, 36, 38 mm bis 72 mm
- 20 outer pressure pads in 44, 46, 48 mm bis 82 mm
- pressure pads are slotted for visual control



Item #	Description
1514	Pull and Press Sleeve Kit with 4 Spindles
1514-M10	Spindle M10 for Pull and Press Sleeve Kit Art. 1514
1514-M12	Spindle M12 for Pull and Press Sleeve Kit Art. 1514
1514-M14	Spindle M14 for Pull and Press Sleeve Kit Art. 1514
1514-M16	Spindle M16 for Pull and Press Sleeve Kit Art. 1514



## 16-piece Bushing Driver Set

- made from aluminium
- 3 punches: Ø 11 mm, 16 mm, 21 mm
- 13 pressure pads:
  - 10 mm internal diameter x 12 mm external diameter
  - 12 mm internal diameter x 14 mm external diameter
  - 14 mm internal diameter x 16 mm external diameter
  - 15 mm internal diameter x 17 mm external diameter
  - 16 mm internal diameter x 18 mm external diameter
  - 18 mm internal diameter x 20 mm external diameter
  - 19 mm internal diameter x 21 mm external diameter
  - 20 mm internal diameter x 22 mm external diameter
  - 22 mm internal diameter x 24 mm external diameter
  - 25 mm internal diameter x 27 mm external diameter
  - 26 mm internal diameter x 28 mm external diameter
  - 28 mm internal diameter x 30 mm external diameter
  - 30 mm internal diameter x 32 mm external diameter



Item #
1524



## 10-piece Bearing & Seal Driver Set

- for the assembly of shafts, bearings etc.
- incl. 1 pin and blocker bar with the following diameters:
  - 40-44-50-59-63-65-72-76-81 mm
- reception 14 mm



Item #
1522



## 52-piece Mounting Pad Set for Bearings

- suitable for mounting of bearings, sealing rings and rubbers
- particularly useful when using with hydraulic presses
- this kit includes mounting pads in following sizes:
  - 18 to 65 mm (1 mm steps) and 74 mm
- 180 mm x Ø12 mm metal handle for use with hammer
- made from carbon steel



Item #
8467



## Rear Axle Guide Bushing Tool, BMW 5 & 7 SERIES

- allows replacement of rear axle guide bushings
- suitable for models E39 und E38
- consists of:
  - assembly pressure plate
  - disassembly pressure plate
  - spindle and counterholding sleeve

Item #
8481



## Rear Trailing Arm Bush Tool for BMW E36 & E46

- suitable for BMW 3 Series (E36, E46, E46 Compact)
- for removing original bushes and removing & installing new style slotted bushes
- material: S45C carbon steel, hardened

Item #
8480



## 8-piece Silent Block Puller Set for BMW E38, E39

- for differential suspension bushes at rear axle
- includes various press pieces, spindle and sleeve
- material: S45C steel

Item #
6456



## Mounting Tool for Fiat Rear Axle Silentblocks

- used for mounting silentblocks on Fiat rear axles
- suitable for:
  - Fiat Stilo '01 - '07
  - Fiat Bravo from '07
  - Lancia Delta '08

Item #
8464



## 4-piece Rear Wheel Bearing Remover & Installer Set

- for removing / installing the rear wheel bearing and rear axle flange on Mercedes Benz types W124, 129, 201, 202



Item #
64100



## Extractor and Press Tool for Front Axle Bushing on VW Polo 2002

- suitable for all VW Polo model 2002
- facilitates the removal of the rubber bushings on front axles
- M12 x 260 mm spindle drive with 19 mm 6-pt
- spindle nut has a 24 mm 6-pt drive
- brass washer to reduce friction



Item #
8287



## Rear Axle Bush Mounting Tool for VW Golf and Audi A3

- for mounting the rear axle bushes without removing the rear axles
- suitable for Audi A3, Volkswagen Golf IV, Bora 1.4 / 1.6 / 1.8 / 2.0 and 1.9D (01-03)
- the bushes can be mounted easily using a ratchet wrench or spanner



Item #
8437



## Wheel Bearing Tools for VW Wheel Hub Bearing Unit

- facilitates assembly and disassembly of wheel hub-bearing unit
- high-strength ball bearing fitted spindle
- pressure plate with 8 holes
- 5 bolts
- 1 pair of divided dismantling shells
- 1 dismantling plate
- 1 pair of divided mounting shells
- 1 mounting plate



Item #	Description
8321	Wheel Bearing Tool for 62 mm VW Wheel Hub Bearing Unit
8322	Wheel Bearing Tool for 66 mm VW Wheel Hub Bearing Unit
8324	Wheel Bearing Tool for 85 mm VW Wheel Hub Bearing Unit
8270	Wheel Bearing Tool for 72 mm VW Wheel Hub Bearing Unit
8323	Replacement Spindle for BGS 8270, 8321, 8322, 8324



## Bushing Tool Kit for VW Polo 9N

- for easy and safe removal and replacement of silent blocks directly on the vehicle
- no removal necessary, minimizing the workload
- contains spindle, spindle extension, shoulder nut, spindle adaptor M10x1.25 made of S45C carbon steel
- spacer, pressure part, centering mandrel made from aluminium alloy



Item #	Description
8253	Bushing Tool Kit for VW Polo 9N
8253-1	Spindle from BGS 8253



## Pressing Frame

- to be used especially with BGS 1514 pulling and pressing sleeve set
- with M18 spindle for impact use
- can be used with hydraulic ram BGS 7721-X

Item #
3051



## Mini Suction Lifter, Ø 55 mm, ABS

- with quick release lever
- ideal for removing little body dents etc.
- max. capacity: 5 kg

Item #
7987



## Suction Lifter Ø 115 mm, ABS

- with quick release lever
- ideal for lifting windows, body repair, etc.
- max. capacity 40 kg

Item #
7998



## Suction Lifter, Ø 115 mm, Metal

- with quick release lever
- maximum capacity 40 kg

Item #
7995



## Suction Lifter, Ø 200 mm, extra strong

- with pump and quick release lever
- max. lifting capacity: up to 80 kg
- diameter: 200 mm

Item #
7983



## Twin Suction Lifters, Ø 120 mm, ABS, Length 325 mm

- fixed cups for flat windows
- max. capacity: 60 kg

Item #
7991



## Twin Suction Lifters, Ø 120 mm, ABS, flexible Cups, Length 390 mm

- with quick release lever
- max. capacity: 60 kg

Item #
8000



## 3-piece Suction Lifter Set

- incl. ratchet strap
- contents:  
2 twin suction lifters BGS 8000 and ratchet strap
- for easy transport, assembly and removal of windscreen and rear window
- max. load per twin suction lifter: 60 Kg

Item #
7997



## Caulking Gun, 300 mm long

- with toothed bar
- heavy duty
- zinc coated
- incl. sleeve cutter
- for standard cartridges (220 mm)

Item #
3509



## Skeleton Type Heavy Duty Caulking Gun

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

Item #
3510



Suction Lifters / Caulking / Grease Guns

## Caulking Guns with Aluminium Cylinder

- expert quality

PRO+

Item #	Description
3511	Caulking Gun with Aluminium Cylinder, 220 mm
3513	Aluminium Caulking Gun, for 380 mm Cartridges



## Spare Nozzle for Standard Cartridges

- suitable for all standard cartridges
- consisting of tip and pressure plate

Item #
3512



## Miniature Pistol Type Grease Gun, 125 ccm

- easy to use with one hand
- capacity 125 ccm
- exchangeable delivery tube
- optional: flexible delivery tube BGS 3066

Item #
3141



## Lever Grease Gun

- capacity 500 ccm
- for use with standard cartridges (220 mm) and bulk
- incl. delivery tube
- optional: flexible delivery tube BGS 3066

Item #
3140



## Grease Gun

- supplied complete with delivery tube
- for 400 ccm / 220 mm cartridges
- length 300 mm
- optional:  
flexible delivery tube BGS 3066  
mouthpiece BGS 3143



Item #	Description
3065	Grease Gun
3065-1	Nozzle Tube for Grease Gun BGS 3065



## Lever Type Grease Gun

- can be filled with 400g grease cartridges (DIN 1284), bulk grease and filling device

Item #
3144



## Air Grease Gun, 400 ccm

- capacity 400 ccm
- incl. flexible and rigid delivery tubes
- 1/4" air connection



Item #	Description
3236	Air Grease Gun, 400 ccm
3236-1	High-Pressure Hose Made of Flexible Nylon for BGS 3236



## Flexible Delivery Tube, 300 mm

- for item nr. 3065, 3140, 3141, 3236

Item #
3066



## Delivery Tip for Grease Gun

- for tube BGS 3066 and all BGS grease guns
- thread: 1/8 "PT

Item #
3143



## Grease Gun Adaptor, 90° angled, 1/4"

- suitable for tight spaces



Item #
3283



## 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



## Air Pressure Grease Gun Kit

- contains various couplings and adaptors parts for different applications, also for utility vehicles
- also for manual operation without pressurized air



Item #
8368



## Foam Gun

- for PU foam
- adjustable foam flow



Item #
3267



## 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



## Rubber Hand Grinder

- with holding teeth
- 2 pcs. shells for a perfect fit of the abrasive

Item #
1633



## Hand Grinder, 105x210 mm

- with metal grip pins in each end
- for sanding paper

Item #
1638



## Door Adjusting Tool

- for cars and small trucks
- 660 mm length

Item #
3538



## Door Adjusting Lever

- for adjusting the side door gap dimensions of  
passenger cars, vans and trunk lids  
of hatchback cars
- made of special steel
- incl. locking pins in different sizes  
(storage space in handle)
- chrome plated

Item #
3548



## 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



## Pneumatic Dent Hammer 1.4 kg

After connecting the dent hammer to an air supply, the hammer creates a vacuum and sucks firmly to the body -> dents can now easily be removed by working the sliding hammer

- 3 replaceable strainers: Ø 60 mm, 120 mm, 160 mm
- 1500 g sliding hammer weight
- 1/4" air connection
- length: approx. 620 mm
- suction heads also available separately

For best results even with the smallest adaptor an air pressure of at least 150 PSI is required !



Item #	Description
68000	Pneumatic Dent Hammer 1.4 kg
68000-60	Suction Head 60 mm ø, for BGS 68000
68000-120	Suction Head 120 mm ø, for BGS 68000
68000-160	Suction Head 160 mm ø, for BGS 68000
68000-1	Replacement Hose with Valve for BGS 68000
68000-2	Ball Valve for Item 68000

## Professional Dent Repair Kit

- suitable for repair of minor dents
- painting and filling work are unnecessary
- no color differences
- reduces time and cost
- includes:
  - 9 dent pads in various sizes and shapes
  - special adhesive glue sticks with very good performance for best results
  - sliding hammer to pull out hard dents
  - pulling unit with rubberized feet for slight dents on flat surfaces
  - plastic scraper for gentle removal of dent pads



Item #	Description
865	Professional Dent Repair Kit
867	10 pcs. Special Glue Stick for BGS 865, 8057
866	Replacement Dent Pads for BGS 865

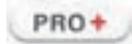
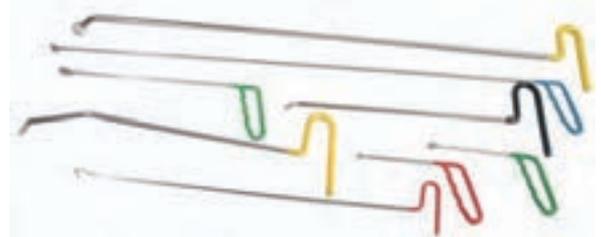
## 8-piece Dent Removal Tool

- for the removal of dents in a car's body without damaging the finish
- ideal for removing small dents and damaging caused by hail

various types:

- 2 half-round bars 21 & 22 cm
- 1 round bar 42 cm
- 1 half-round pointed bar 60 cm
- 2 angled ball-headed bars 46 & 100 cm
- 1 pointed bar 56 cm
- 1 special-type hooked bar 107 cm

Delivered in a handy carrying case



Item #	Description
1659	8-piece Dent Removal Tool
1659-KÖPFE	3 Replacement Plastic Heads for Dent Removal Tool BGS 1659

## 30-piece Dent Repair Kit

- for repairing of dents e.g. hail damages, door bumps, etc.
- allows repair of dents without painting
- no need to disassemble car body parts
- disassembly of panels is rarely necessary
- repair costs can be kept low, no painting cost
- set consists of all bumping tools needed in various lengths and shapes
- made of stainless and carbon steel
- also contains air inflating pillow, trim strip wedge and other parts



Item #
1639



## 26-piece Denting Iron Set

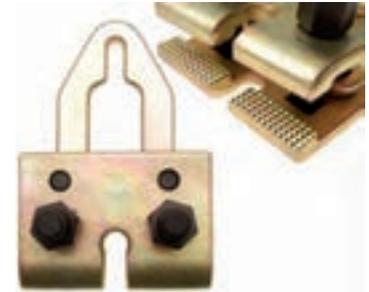
- suitable for professional "denting doctors"
- includes irons with round, flat, point and ball heads
- made of 5 to 14 mm round stainless steel
- 45° up to 135° bent heads
- length: 250 mm to 1150 mm
- dip coated handles
- in aluminum transport case with Velcro® strip holders for denting iron



Item #	PRO+
1642	

## Claw for Car Body Alignment, 120 mm, one direction of pull, up to 5 T

- claw width: approx. 120 mm with 15 mm center opening
- clamping depth: approx. 32 mm
- length: approx. 180 mm



Item #	PRO+
2901	

## Claw for Car Body Alignment, 45 mm, one direction of pull, up to 5 to.

- claw width: 45 mm
- clamping depth: 40 mm
- length: 230 mm
- holding power of the claw is automatical higher when pulling
- 35 x 40 mm eyelet opening



Item #	PRO+
2902	

## Claw for Car Body Alignment, 35 mm, one direction of pull, up to 3 to.

- claw width: 35 mm
- clamping depth: 60 mm
- length: 220 mm
- holding power of the claw is automatical higher when pulling
- 35 x 40 mm eyelet opening



Item #	PRO+
2903	

## Claw for Car Body Alignment, 43 mm, one direction of pull, up to 5 to.

- claw width: 43 mm
- clamping depth: 30 mm
- length: 210 mm
- holding power of the claw is automatical higher when pulling
- 35 x 40 mm eyelet opening

Item #
2905



## Claw for Car Body Alignment, 120 mm, two directions of pull, 5 to. (side 3 to.)

- claw width: 120 mm with 15 mm center opening
- clamping depth: 32 mm
- length: 180 mm

Item #
2900



## Claw for Car Body Alignment, 43 mm, one direction of pull, 5 to. (side 2 to.)

- claw width: 43 mm
- clamping depth: 30 mm
- length: 210 mm
- holding power of the claw is automatical higher when pulling
- 35 x 40 mm draw eyelet

Item #
2904



## Air Inflating Pillow

- for spreading e.g. door frames for emergency opening or repairs
- hand pump and valve included

Item #
3544



## 5-piece Air Inflating Pillow Set

- for spreading e.g. door frames for emergency opening
- hand pump with valve



Item #
3547



## Plastic Repair Set

- to repair cracks in plastic parts above 1 mm thickness
- suitable for plastic with max. 40% glass fiber content
- for repairing plastic bumpers, panels, brackets, etc.
- includes repairing clamp in V-shape 0.6 mm, U-shape 0.6 mm and U-shape 0.8 mm
- this tools heats up the clamps to a temperature between 100 and 200° C so that they can connect the breaking points and bring back stability
- can also be used for enforcing strongly used areas



Item #	Description
869	Plastic Repair Set
869-1	100 Repair Clamps (U-shaped ) for Plastic Repair Equipment BGS 869
869-2	100 Repair Clamps (square) for Plastic Repair Equipment BGS 869
869-3	100 Repair Clamps (V-shaped) for Plastic Repair Equipment BGS 869

## Body and Fender Repair Kit, hydraulic, 4 TO

- for special operations on car bodies and fenders
- maximum pressure: 4 tons
- many accessories

Packed in metal case (as displayed)



Item #	Description
1688	Body and Fender Repair Kit, hydraulic, 4 TO
1688-1	Hydraulic Pump 4 to. for BGS 1688

## 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



PRO+

Item #	Description
1689	Body and Fender Repair Kit, hydraulic, 10 TO
1689-1	Hydraulic Pump 10 to. for BGS 1689

## Ball Pein Hammers

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

PRO+

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

- chequered hammer face for removing dents without distortion
- hickory shaft
- length 310 mm

Item #	1675
--------	------

PRO+ CROMO



## Bumping Hammer, 225 g, Serration Pattern

- for removing dents without distortion
- 3-piece hammer face, flexible

Item #	1676
--------	------

PRO+



## 7-piece Body Repair Set

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

In carrying case



Item #
1672



## 10-piece Expert Body Repair Set

- 1 hammer with 9 interchangeable panel beating instruments, round, pointed & flat
- hardened bumping heads
- with quick joint



Item #
1679



## 15-piece Chisel and Punch Set

- ergonomically shaped non-slip rubber coated handle
- quick change handle manufactured from **chrome molybdenum steel**

contents:

- 1 chisel holder
- 7 flat cold chisels
- 1 cross cut chisel
- 1 taper pin punch
- 3 centre punches
- 2 parallel pin punches



Item #
1641



## 4-piece Body Chisel Set

- 1 wide body chisel 60 mm wide x 250 mm long, with heavy hand protection
- 1 narrow body chisel 26 mm wide x 230 mm long, with heavy hand protection
- 1 narrow body chisel 26 mm wide x 230 mm long, without hand protection
- 1 special body chisel 20 mm wide x 295 mm long, extra thin tip, extra light insulation consumes less space



Item #
1645



## Panel Chisel, 235 mm

- with rubber hand guard
- tip can be sharpened
- 26 mm wide
- extra thin material



Item #
1640



## Panel Beating Iron 3 in 1

- ideal for dent removal



Item #
1685



## Body File Frame

- for 350 mm files, sold **without file**
- aluminium diecast



Item #
3216



## Body Files for Item# 3216

- different shapes (see below)



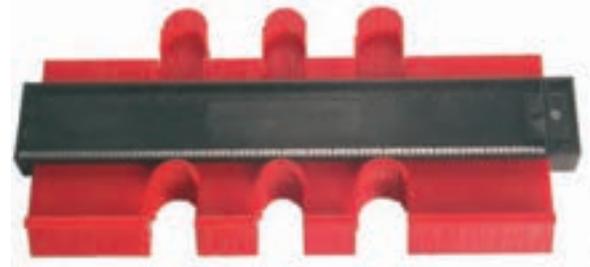
Item #	Description
3217	Body File, 350x35x4 mm, halfround shaped, rough
3217-1	Body File, 350x35x4 mm, radial shaped, fine
3217-2	Body File, 350x35x4 mm, angular shaped, rough
3217-3	Body File, 350x35x4 mm, angular shaped, fine



## Contour Gauge, Length 260 mm

- ideal for trimming tiles, carpet, linoleum, etc.
- useful for operations on car bodies, for carpenters and for modelling
- with magnetic holder

Item #
8025



## Contour Gauge, Pin Type, Length 125 mm

- metal made

Item #
8149



## 2 pcs. Polisher Kit, Ø 65 mm + Ø 105 mm

- especially for cars and trucks for cleaning and rust removal
- 1/2" adaptor for air impact wrenches

Item #
3965



## Magnets, 4 pieces

- perfect for adjusting car body parts and accessories for final assembly
- rubber coated magnets
- magnetic force: 500g per magnet

Item #
7994



## Combination Edge Setter and Folding Pliers, straight

- length 280 mm
- maximum jaw width 60 mm
- PVC dipped handles

Item #
6160



## Combination Edge Setter and Folding Pliers, 45° OffSet

- length 280 mm
- maximum jaw width 60 mm
- PVC dipped handles



## Combination Edge Setter and Folding Pliers, 90° OffSet

- length 280 mm
- maximum jaw width 60 mm
- PVC dipped handles



## Fork Type Separators

- manufactured from hardened carbon steel
- zinc coated
- for a quick and secure separation of tie rod ends, pitman arms etc.



Item #	Description
1805	Fork Type Separator, 390 mm, 16 mm Jaw Opening
1809	Fork Type Separator, 200 mm, 18 mm Jaw Opening
1808	Fork Type Separator, 295 mm, 23 mm Jaw Opening



## Adjustable Fork Type Splitter, 18-42 mm

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



## Fork Sledgehammer with 3 Splitting Prongs

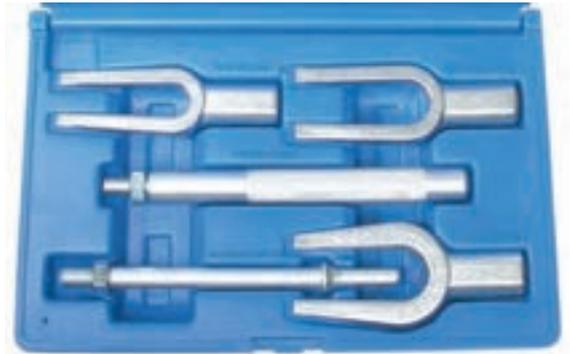
- for splitting of ball joints
- length 720 mm
- 3 exchangeable splitting prongs
- inner width 16 mm, 24 mm, 28 mm



Body Repair Kits / Ball Joint Tools

## 5-piece Fork Type Separator Set

- jaw opening approx. 17,4 - 23,8 - 28,5mm
- manufactured from forged carbon steel,
- handle for manual use
- adaptor for air hammer use (10 mm)



Item #
1806



## 5-piece Fork Type Separator Set

- forged jaws
- a) length 300 mm - jaw opening 24.5 mm
- b) length 300 mm - jaw opening 29 mm
- c) length 300 mm - jaw opening 35 mm
- d) length 300 mm - jaw opening 42 mm
- e) length 400 mm - jaw opening 18 mm



Item #
63800

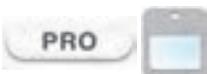


## Ball Joint Puller, 18 mm Jaw Opening

- forged
- zinc coated



Item #
1803



## Universal Ball Joint Puller

- forged carbon steel
- for ALL type of cars for removing bearings
- adjustable jaw: up to 50 mm
- 20 mm jaw opening



Item #
1804



## Ball Joint Separator, Capacity up to 50 mm

- forged
- all parts hardened
- 19 mm jaw opening

Item #
1807



## Ball Joint Separator, 20-22 mm

- satin chrome plated
- forged and hardened,
- jaw 20-22mm
- jaw range in two positions adjustable: up to 30 and 55 mm
- for separating ball joints

Item #
1795



## Universal Ball Joint Extractor, 50 - 80 mm

- adjustable in 2 steps
- suitable for cars, vans and pickup trucks
- heavy duty finish, 1560 g
- opening width 21 mm
- for use with 17 mm hexagon socket

Item #
8410



## Universal Ball Joint Extractor, 30 mm

- heavy duty finish with milled jaws, 2900 g
- spindle with ball tip
- for removal of ball joints on cars, SUV and vans
- 30 mm fork opening
- 52 mm maximum opening width
- suitable for operation with impact wrenches
- can be used with 22 mm hexagon socket
- heavy duty thread
- dimensions: (LxWxH) 190 x 150 x 43 mm

Item #
8411



## Ball Joint Separator, opening adjustable 20 - 30 mm

- for removal of e.g. suspension ball joints, tie rod joints, etc.
- this tool is made from special chrome molybdenum / S45C steel for max torque, chrome plated finish
- adjustable jaw width
- jaw opening: 20 - 30mm

Item #
8541



## Ball Joint Puller, extra large

- designed for working on trucks
- forged, variously applicable
- 20 mm fork opening
- 32 mm max. width
- 270 mm length

Item #
1802



## Ball Joint Separator, 8T hydraulic

- gives you a higher separating pressure, especially under narrow space conditions
- 23 mm fork opening, spreads up to 56 mm

Item #
8528



## Ball Joint Separator

- forged carbon steel



Item #	Description
1796	Ball Joint Separator, 23 mm
1797	Ball Joint Separator, 29 mm



## Ball Joint Shifters

- for shifting/pushing the ball joint out of axle legs, drop arms, stabilisers
- especially for working in narrow space
- suitable only for working on closed joints or joints with centre hole



Item #	Description
1813-23	Ball Joint Shifter, 23 mm Jaw
1813-28	Ball Joint Shifter, 28 mm Jaw
1813-34	Ball Joint Shifter, 34 mm Jaw



## 3-piece Ball Joint Shifter Set, 23-28-34 mm

- for shifting/pushing the ball joint out of axle legs, drop arms, stabiliser
- especially for working in narrow spaces
- suitable only for working on closed joints or joints with centre hole
- sizes: 23x55, 28x55, 34x63 mm



Item #
1813



## Pick-up Truck & Bus Ball Joint Extractors

- suitable for cars, light trucks and SUV
- solid execution for long product life time
- hardened pressure spindle and centering tip



Item #	Description
67213	Pick-up Truck & Bus Ball Joint Extractor, 30 mm
67214	Pick-up Truck & Bus Ball Joint Extractor, 32 mm
67215	Pick-up Truck & Bus Ball Joint Extractor, 39 mm

## 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



## VW T4 Supporting Joint Tool Set

- suitable for VW T4 front axle
- for professional assembly and disassembly of the upper supporting joints
- hardened spindle with 24 mm hex drive
- 3 different pressure plates
- incl. 2 reducing forks with locking function

Item #
8231



## Ball Joint Assembly and Disassembly Tool

- facilitates assembly and disassembly
- suitable for Mercedes 220 / 211 / 230 series
- heavy duty type
- 185 mm compression spindle with 24 mm hex drive
- 2 compression heads 40 mm and 54 mm
- 3 pressure pads 22 mm, 33 mm and 57 mm

Item #
8293



## Ball Joint Tool Kit / Installer for BMW

- for installing / removing the ball joint on BMW E 36 series
- exchangeable yokes allow multi-purpose use
- can also be used for hydro and plastic bearings

Item #
1525



## Suspension Ball Joint Tool for BMW 3-series

- for installing / removing the ball joints on BMW E36 series
- exchangeable yokes for multi-purpose use
- can also be used for hydro and plastic bushes



Item #
8482



## Flywheel Holding Lever

- facilitates the disassembly and assembly of clutch cover and flywheel
- hardened gear segment for locking starter gear rings



Item #
8348



## Clutch Aligning Punch

- for centring the clutch disk in cars without clutch pilot bearing



Item #
1710



## 17-piece Clutch Aligning Set

- 8 conical centering bushes for clutch discs with hole sizes 14.5 to 25.5 mm
- 8 adapters for centering the crankshaft in sizes 10,8-12,2-13,5-14,7-15,8-17,1-18,3 and 19.9 mm
- 145 mm centering shaft



Item #
1712



## 2-piece Clutch Aligning Set

- In 2 sizes: 15-19 mm and 20-26.6 mm
- for perfect centering of the clutch



Item #
1709



## Clutch Aligner Tool

- for clutch discs with 15 to 28 mm clutch hub
- allows an accurate centering of the clutch disc on vehicles with or without pilot bearing
- alignment according to friction surface of the clutch pressure plate
- suitable for most vehicles
- centering sleeve  $\varnothing$ : 12, 14, 15, 16, 17, 18 & 19 mm



Item #
1708



## Release Shaft Puller for Fiat Ducato

- suitable for Fiat Ducato (from 1994) with pulling clutch
- for removal of the clutch release shaft
- needed when removing gearboxes, replacing clutches or gearbox repair



Item #
8520



## Duplex Clutch Repair Kit for VAG DSG Transmission

- needed for repair of the clutch unit
- suitable for the following vehicles:
  - VW Golf 2004 >, Golf Plus 2005 > with 7-speed gearbox (code 0AM)
  - Audi A3 2004 > with 7-speed gearbox (code 0AM)
- consists of following tools:
  - support bridge to be used as OEM T10323
  - puller to be used as OEM T10373
  - final dimension to be used as OEM T10374



Item #
8320



## Reset Tool for BMW SAC Clutch

- is needed for professional assembly and disassembly of SAC clutches
- suits for engine series E34, E36, E38, E39, E46, E52, E53, E60, E61, E81, E83, E85, E86, E87, E88, E90 and E91
- reset of the adjusting ring can be done using BGS 8284
- easy to handle, saves time and trouble
- knurled locking bolts and adjusting lever prevent slipping off

Item #
8283



## Special Tool for BMW SAC Clutch

- necessary for pre-tensioning self adjusting clutches before removal or installation
- prevents plate distortion which may prevent the clutch from disengaging or cause dragging
- suitable for BMW series, E34 E36, E38, E39, E46, E52, E53, E60, E61, E81, E83, E85, E86, E87, E88, E90 and E91
- equivalent to OEM 212170

Item #
8284



## SAC Clutch Tool Set

- for fast and professional disassembly and assembly of SAC clutches
- fits on nearly all SAC clutches with 3- and 4-hole pitch from VAG, MB, Opel, Volvo, Renault etc. e.g. on models:  
Audi A3, A4, A6, A8  
VW Passat, Golf, Sharan, Tiguan  
Ford Mondeo, S-Max, Galaxy, Transit  
Mercedes C, E, CLS, S, CLK, SLK, SL  
BMW 320, 330, 520, 530  
Alfa Romeo 147, 159, 166  
Fiat Ulysse, Croma, Ducato  
Lancia Phedra, Thesis

Item #
8286



## 36+1-LED Working Lamp with Carry Strap

- very handy and fits into any small pocket
- always ready for quick checks
- very good lighting by 36 bright LED's and reflector LED in the lamp head
- with magnet and strap
- dimensions: 225 x (oval 30 x 35) mm

Item #
8455



## LED Pen with 6 LEDs

- 6 bright LEDs
- particularly useful due small dimensions
- fits in any pocket and is therefore always available
- with clip
- dimensions: 158 x 33,5 x 16,5 mm
- battery: 1.5V AAA, 3 pieces included

Item #
8491



## 2-IN-1 Extendable LED Flashlight with Magnetic Pick Up Tool

- 170 to 545 mm extendable telescopic magnetic lifter with flexible gooseneck for lifting metal objects like screws, tools, coins etc.
- 3 energy-efficient, durable and bright LED
- aluminum housing with mounting clip
- magnetic holding force 1kg
- diameter: 25 mm

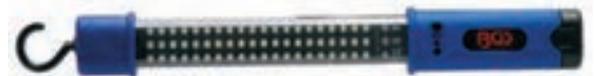
Item #
9303



## 60 LED Lithium-Ion Work Lamp

- LED-LUM 12.000 MCD
- battery 7,4 V Lithium-Ion
- 3 hours drain time
- LED charge indicator
- 230 V charging unit

Item #
85400



## Rechargeable 60 LED Light

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

Item #
85300



## Hand Lamp, 11W, 220V

- very rugged hand lamp with 2 neon tubes
- protection class IP54, protected against splashing water
- equipped with 5m neoprene cable and metal hook



Item #	PRO+		CE
9704			

## 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 3G1.5mm<sup>2</sup>) 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 #	Description
85330	4-Foot Stand for Art. 85320
85330-1	Bracket for Tripod BGS 85330

## Under Bonnet Working Lamp

- with fluorescent tube type T8, 30 watt (890 mm)
- with **telescopic bar**, extends 110 to 190 cm
- 360° swivel hook
- extra long power cord: 4.5 m (230 V)

Item #
85305



## LED Under Bonnet Working Lamp with Rechargeable Battery

- 120 LED, LED LUM 12.000 MCD
- with **telescopic bar**, extends 127 to 203 cm
- 360° swivel hook
- Battery 7,2 V (6x AAA 900mAh NI-MH)
- works for 3 hours when fully loaded
- LED charge status indicator
- for 230 V, with 12 V adaptor

Item #
85410



## Clamping Wrench for Adjusting Track Rods, 14 - 20 mm

- for rusted track rods
- facilitates the track setting
- special mouth mechanism holds track rods from 14 up to 20 mm
- detachable, knurled handle
- length: 390 mm

Item #
8267



## Clamping Wrench for Adjusting Track Rods, 40 - 55 mm

- for rusted track rods
- facilitates the track setting
- special mouth mechanism holds track rods from 40 up to 55 mm
- detachable, knurled handle
- length: 540 mm

Item #
8346



## Track Rod Setting Set

- changing of the tie rod ends is possible without additional alignment
- reduces the workload when changing tie rods
- consists of:
  - main unit with clamping device
  - 10 and 12 mm caliper, short and long type
  - 17 mm caliper for VW
  - fixing unit
  - caliper for depth measuring



Item #
8305



## 4-piece VW / Audi Subframe Locating Pin Set

- for precisely aligned mounting of the subframe
- needed e.g. for replacing the rubber bushings and all jobs for which the auxiliary frame (subframe) is removed
- suitable for:
  - VW Scirocco (09), EOS (06), Golf (09), Golf Plus (05), Jetta (04-06), Polo (02), Fox (06), Passat (06), Passat CL (09), Audi A3 (04) and Audi A3 (04), TT (07), A4 (01)
- to be used as OEM T10096



Item #
8306



## BMW Front Chamber Adjusting Kit

- allows the adjustment of chambers on the following BMW Models:
  - E38, E39, E46, E53, E60, E61, E63, E64, E65, E66, E67, E81, E83, E85, E86, E87, E90, E91, E92 and E93
- tool remains on the spring strut until all screws are tightened, therefore no recalibration required
- made of high quality aluminum
- also available separately under the following item no.:
  - **66151-1:** suitable for BMW models E60 - E61 - E63 - E64
  - **66151-2:** suitable for BMW models E65 - E66 - E67 - E81 - E83 - E85 - E87 - E90 - E91 - E92 - E93
  - **66151-3:** suitable for BMW models E38 - E39 - E46 - E53 - E65 - E66 - E67 - E81 - E83 - E85 - E86 - E87 - E90 - E91 - E92 - E93

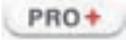


Item #	Description
66151	BMW Front Chamber Adjusting Kit
66151-1	Front Chamber Adjusting Tool from BGS 66151
66151-3	Front Chamber Adjusting Tool from BGS 66151
66151-2	Front Chamber Adjusting Tool from BGS 66151

## Magnetic Camber Gauge

- helps to determine the suspension strut angle before disassembly and the adjustment of the same angle after re-assembly
- simply attach to the brakedisc with integrated magnets
- adjustable water level included

in plastic case



Item #	Description
1523	Magnetic Camber Gauge
1523-1	Level for Camber Gauge BGS 1523



## Magnetic Camber Gauge, Double Adjustability

- helps to determine the suspension strut angle before disassembly and the adjustment of the same angle after reassembly
- double adjustability:
  - 1st step ruff adjustment via 180° clapping mechanism
  - 2nd step fine adjustment via adjustment screw

In plastic case

Item #
1519



## Steering Wheel Sleeve Puller for VW

- is needed to pull the steering shaft sleeve when replacing the turn signal / wiper switch unit
- suitable for VW Golf II / III / IV, Jetta, Passat, Polo and Vento since '88

Item #
7727



## Steering Wheel Puller, ext. 33 mm, int. 50 mm

- chrome vanadium steel
- for GM (Opel)

Item #
7739



Steering

## Axial Joint Tools

- 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
- works with 1/2" ratchets or 27 mm sockets



Item #	Description
66526	Axial Joint Tool, 28-35 mm
66525	Axial Joint Tool, 34-45 mm
66527	Axial Joint Tool, 45-50 mm



## 4-piece Tool Set for Axial Joints

- 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
- for joint heads Ø 30 - 45 mm
- 3 exchangeable clamping heads for a wide application area (30 - 35, 35 - 40, 40 - 45 mm)
- works with 1/2" ratchet or 27 mm socket



## Steering Wheel Level

- a must-have for quick and precisely even steering wheel assembly
- avoid reassembly of lean steering wheels that are only recognized after test drive
- much more accurate than the mechanics' eyes alone

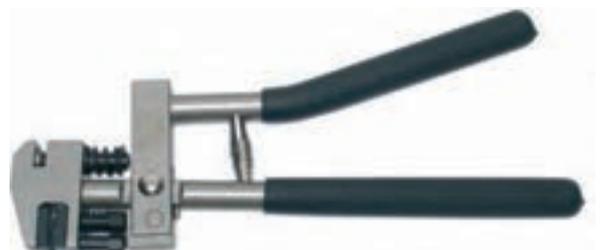


## Combination Edge Setter / Hole Punch Pliers

- flexible jaw, 5mm punch
- for setting edges in sheets up to 1mm thickness and for punching holes in sheets for spot welding operations
- 285 mm long
- jaw size: 13 mm deep
- 22 mm wide



Item #	Description
6120	Combination Edge Setter / Hole Punch Pliers
6121	Repair Part for Punch Pliers 6120, 5 mm
6122	Spare Punch Head for Item Nr. 6120, 6 mm



Steering / Hole Punch Pliers / Edge Setters

## Edge Setter Pliers for Metal Sheets up to 1 mm

- jaw 22 mm wide and 13 mm deep, length 300 mm
- for reducing metal sheet edges up to 1 mm
- for car body repairs
- comfortable and robust rubber handle
- max. power transmission with min. effort

Item #
6140



## Ticket Punch for Punching Folded Workpieces

- 5 mm matrix, punches up to 1.25 mm material, throat 40 mm, length 280 mm
- special pliers for punching and retracting folded workpieces

Item #
6141



## Magnetic Pick-Up Tool, 500 mm, 0.5 kg Capacity

- tip diameter: 7 mm
- with nozzle cleaner
- incl. clip holder

Item #
3091



## Magnetic Pick-Up Tool with flexible Tip, 580 mm, Capacity 1.6 kg

- magnetic end diameter: 13 mm
- max. length 580 mm
- capacity up to approx. 1,6 kg
- clip holder
- chrome plated

Item #
3183



## Telescopic Magnetic Pick-Up Tool, 630 mm, Capacity 2.2 kg

- high capacity (up to 2200 g)
- with clip holder
- tip ø 10 mm

Item #
3088



## Magnetic Pick-Up Tool, 650 mm, Capacity 3 kg

- magnetic tip diameter: 15 mm
- the removable tip sleeve prevents from having a sideward magnetic effect so that only those parts you want to pick up are magnetically attracted
- max. length approx. 650 mm
- rubber handle with clip holder

Item #
3188



## Flexible Magnetic Pick-Up Tool, 500 mm, Capacity 0.5 kg

- capacity up to 500 g
- extra thin magnetic end  $\varnothing$  6 mm

Item #
3089



## Magnetic Pick-Up Tool with LED, 600 mm, Capacity 1.5 kg

- capacity up to 1500 g
- with strong LED lamp on magnetic tip

Item #
3187



## 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 mirrors, diameter of mirrors: 21-31-38 mm
- bag and batteries included

Item #
3095



## Inspection Mirror with Light

- mirror with universal joint
- length approx. 470 mm
- flexible shaft
- mirror size 25 x 50 mm
- battery: Mignon (AA, LR 6/AM-3)
- sold without batteries

Item #
3189



## Inspection Mirror, $\varnothing$ 55 mm Mirror

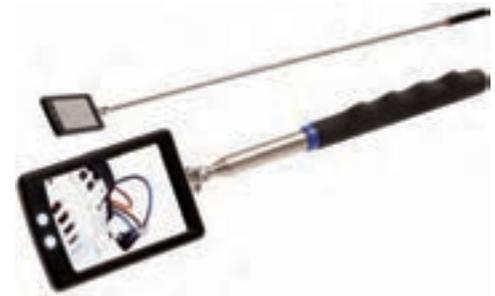
- flexible shaft
- length 475 mm

Item #
3081



## LED Telescope Inspection Mirror, 285 - 870 mm

- non-slip telescopic grip
- Rotating and folding mirrors
- length 285 - 870 mm
- Mirror Size: 41 x 62 mm
- 2 LED



Item #
9302



## Telescopic Inspection Mirror, Ø 200 mm

- especially suitable for visual examination under a vehicle to find oil leaks or corrosion
- aluminium telescopic handle adjustable from 660 mm to 1090 mm
- mirror diameter 200 mm
- shatterproof acrylic mirror
- adjustable mirror angle
- ergonomic handle



Item #
3176



## Magnetic Lifter / Flexible Claw Tool

- length 700 mm
- power of magnet: approx. 800 g
- claw opening up to 23 mm
- claw tool for picking up small parts (screws, nails etc.)
- magnetic pick up tool for all small metal parts

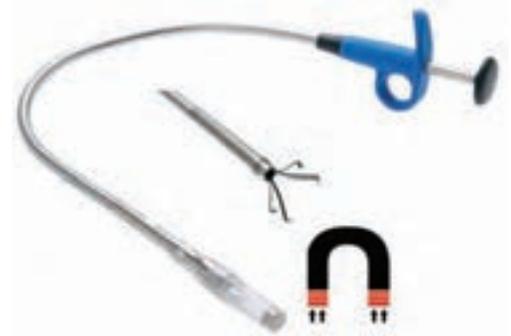


Item #
3094



## 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 find small parts even in dark areas



Item #
3197



## Flexible Pick Up Tool, Length 595 mm

- all steel made construction

Item #
3102



## Powerful Magnetic Holders

- 8 separate magnetic areas

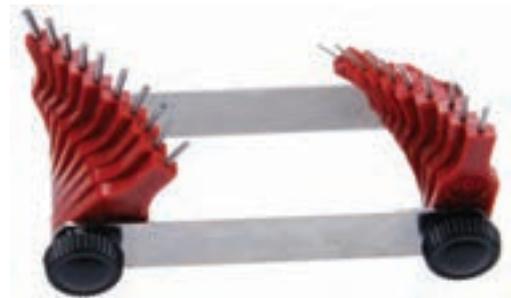


Item #	Description
3007	Powerful Magnetic Holder, up to 11 kg
3008	Powerful Magnetic Holder, up to 22 kg
3009	Powerful Magnetic Holder, up to 33 kg



## 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



## TDC Finder

- for easy and accurate determination of the ignition TDC (top dead center)  
 - especially suitable for vehicles which have no TDC markings  
 - includes:  
 - measurement unit with magnetic holder  
 - connecting tube with spark plug or glow plug adapter in 8 -10 -12 -14 -18 mm + universal cone adapter  
 - 60 and 160 mm aluminum adapter tube for deep seated spark plugs



## 2-piece Poly-V-Belt Tool Set

- facilitates assembly and disassembly of Poly-V-Belts  
 - suitable for most belt pulley sizes  
 - easy handling through wing nut



Magnetic Pickup Tools / Mirrors / Engine

## Mounting Tool Kit for Stretch-Fit Poly-V-Belts

- allows a damage-free mounting of Poly-V-belts on belt systems without tensioner
- 2 different sizes for wide range of application



Item #
8454



## Mounting Tool Set for flexible Multi Ribbed Belts

- allows damage free mounting of flexible multi-ribbed belts
- flexible belt drive requires no idler, but this special assembly tool
- suitable for the following models:
  - BMW: 118, 120, 318, 325, 330, 335, 520, 525, 530, 535, 635, 730, X3, X5 petrol and diesel engines
  - Chrysler Grand Voyager, Voyager
  - Citroen: C2, C3, C4, Jumper, Relay
  - Fiat Albea, Doblo, Marea, Multipla, Ducato, Fiorino, Fiorino Qubo, Linea, Palio, Siena, Stilo, Strada Pick Up, Lancia, Lybra
  - Ford C-Max, Focus, Mondeo, Tourneo, Transit, Courier, Fiesta, Fusion
  - Iveco Daily
  - Mazda 3, 5, Axela
  - Peugeot: 206, 207, 307, Boxer
  - VOLVO: C30, S40, V50
- contains 3 different special tools



Item #
8301



## Locking Pin Set for Automatic Belt Tensioner

- suitable for locking belt tensioners
- locking pin  $\varnothing$  1.9, 1.7, 1.5, 1.4, 1.25, 0.8 mm
- length of pins: 47 mm
- made of spring steel
- on aluminum hook



Item #
8438



## Belt Gauge

- for adjusting initial tension of the drive belt
- can be used for all types of cars as far as information on recommended tension are available
- one rotation of the adjusting nut
- piston load of approx. 10N
- tension can be read on front and back of the tool



Item #
1705

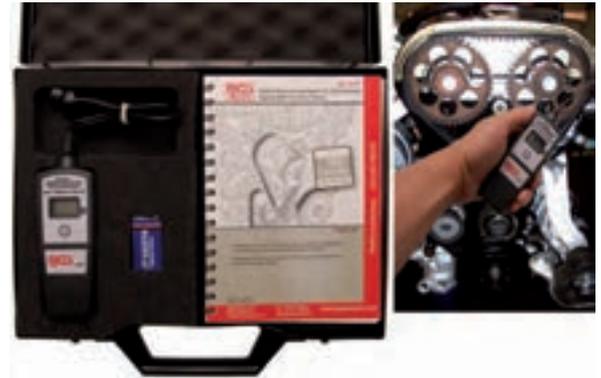


## Digital Toothbelt Gauge

- for measuring and precise adjusting of the timing belt tension
- increases timing belt life
- by a small pulse, a plucking at the belt, which sets the timing belt into vibration, the measuring probe detects the vibration of the toothed belt and the Microprocessor calculates the frequency in Hertz and the value will be shown on the display
- tension value chart included

- Important: measuring the timing belt tension with this instrument can only be done when engine is off

Item #
2177



## Pulley Extractor, universal

- allows easy removal of the crankshaft pulley, provides a counterholding function to prevent rotation of the crankshaft
- counter holder with 1/2" drive
- variable mounting distance 54 - 120 mm
- includes fastening screws M8 and M10

Item #
8551



## Balancer and Crankshaft Flange Tool Set

- carbon steel, hardened, zinc plated
- universal use: incl. 9 adaptors
- can be used with item# 7719
- contents:
  - 1 puller plate
  - 12 screws, each 3 pieces:
    - 3/8NC16 X 57 MM - 3/8NC24 X 57 MM
    - M6 X 1.0 X 60 MM - M8 X 1.25 X 60 MM
  - 1 center bolt 10 mm
  - 9 adaptors:
    - M12 X 1.5 - 3/8NC16
    - M14 X 1.5 - 3/8NC16
    - M16 X 2.0 - 3/8NC16
    - 1/2 X NC20 - 3/8NC16
    - 9/16 X NC18 - 3/8NC16
    - 7/16 X NC20 - 3/8NC16
    - 3/4 X NC16 - 3/8NC16
    - 5/8 X NC18 - 3/8NC16
    - 3/8 X NC16 - 3/8NC16

Item #
7711



## Cylinderhead Repair System Tray

- needed when repairing cylinder heads, e.g. replacing the valves, hydraulic valve lifters, valve stem seals, etc.
- allows a safe and confusion free storing of components, such as camshafts, valves, valve springs, hydraulic tappets, shims, etc.
- dimension: 400 x 450 x 260 mm



Item #
8552



## Piston Ring Pliers

- allows easy and damage-free assembly of piston rings
- head made of hardened steel
- handle made of profile steel, spring mechanism
- length 205 mm



Item #
66103



## 7-piece Piston Ring Compressor Set

- incl. 1 ratcheting piston ring compressor pliers (selfadjusting) and 6 ring compressors sizes:
  - 73 - 79 mm
  - 79 - 86 mm
  - 86 - 92 mm
  - 92 - 98 mm
  - 98 - 105 mm
  - 105 - 111 mm
- height: 40 mm



Item #
1874



## Piston Ring Pliers

- enables non-destructive disassembly and assembly and prevents uncontrolled movement of the piston rings



Item #	Description
8370	Piston Ring Pliers, 80-120 mm
8371	Piston Ring Pliers, 110-160 mm

## Piston Ring Compressors

- spring loaded construction
- for damage-free assembly and disassembly of piston rings



Item #	Description
1887	Piston Ring Compressor, 40 - 80 mm
1888	Piston Ring Compressor, 53 - 125 mm
1889	Piston Ring Compressor, 53 - 175 mm



## Serpentine Belt Servicing Tool Kit, 3/8" + 1/2" Drive

- combines the advantages of a ratcheting wrench with the requirements of the serpentine belt removal tool to provide best possible combination
- provides coverage for all major vehicles with serpentine belt configuration
- metric sockets sizes: 8,12,13,14,17,18,24 mm
- inch socket sizes: 3/8" - 1/2" - 5/8"

Item #
1706



## Radial Seal Dismantling and Assembly Set

- facilitates a non-damage mounting of radial sealing rings
- universally usable for radial sealing rings with Ø 21,5 mm to 64 mm
- suitable for all pressed radial sealing rings such as on camshafts, crankshafts, balancer shafts, ect.
- 4 spacers to compensate the differences in length of central screw
- 7 press sleeves for mounting of radial sealing rings
- 7 adapter rings for normal central bolts (M8 - M20)
- 2 claw pullers for pulling tightly fitted radial sealing rings



Item #	Description
8224	Radial Seal Dismantling and Assembly Set
8224-1	Replacement Puller Legs 70 mm for BGS 8224
8224-2	Replacement Puller Legs 114 mm for BGS 8224



Engine

## 10-piece Diesel Fuel Pump Timing Set

- for an accurate adjustment of several different fuel injection pumps  
i.e. Bosch, VE, Kikki, Lucas CAV-Roto, Nippondenso



Item #
8157



## Engine Timing Tool Set for Rover, Peugeot, Ford, Volvo 2.0 & 2.2L D

- allows inspection and adjustment of engine timing on following models and engines:
- Peugeot: 807 (05-11), 407 (05-11), 607 (05-09)  
engine: DW10UTED4 (RHK), DW10BTED4 (RHR)  
DW12BTED4 (4HS), (4HP), (4HT), (4HR)
- Citroën: C4 (04-10), C5 II (04-10)  
engine: DW10BTED4 (RHR)
- Land Rover: Freelander (06-10)  
engine: DW12BTED4, 224DT  
Volvo: S40 (03-10), V50 (06-10), C70 (06-10),  
S80 (07-10), C30 906-10), V70 (07-10)  
engine: D420T 2.0D
- Ford: S Max 2.2 (08-10), Galaxy 2.2 (08-10),  
Mondeo 2.2, 2.0 (07-10)  
engine: QXBA(2.2), QXWA(2.0), QXBB(2.0),  
Q4BA(2.2), QXWA(2.0), QXWB(2.0), AZBA(2.0),  
AZBC(2.0), AZWA(2.0)
- includes following tools:
  - Camshaft Locking, to be used as OEM  
PSA 0188.M, Ford 303-1277, Volvo 999-7122
  - Flywheel Locking, to be used as OEM  
PSA 0188.X, Ford 303-1270/1059, Volvo 999-7121
  - Crankshaft Locking, to be used as OEM  
PSA 0188.F, Ford 303-1272, Volvo 999-7119/7120



Item #
8529



## Engine Timing Tool Set for Hyundai & Mitsubishi

- includes important tools for checking engine timing and changing timing tooth belt
- suitable for Hyundai 1.6 / 1.8 / 2.0 / 2.4 Twin Cams and Mitsubishi 1.8 to 3.5 16V and V6
- Mitsubishi: Colt 89-95, Lancer 89-95, Carisma 96-05, Galant 93-03, Sigma 91-96, Eclipse-91-95, 300DTG 93-00, Space Star 99-06  
engines types:  
1,8 16V GDI (4G63, 4G94); 2,0 16V GDI (4G63, 4G94, 6A12)  
2,4 GDI (4G64, 4G69); 3,5 GDI V6 (6G74)  
2,5 V6 (6G73, 6a13); 3,0 V6 (6G72)
- Hyundai: Lantra 91-96, 93-01 Sonata, Trajet 00-05, Santa-Fe 6.1
- engines types: G4-N, G4-CP, 4JP, G4-P-, G4-R-, G4-JS



Item #
8530



## Engine Timing Tool Set for Nissan, Renault, Opel

- includes important tools for adjusting the engine timing
- suitable for following models:
  - Nissan: Primaster (08-09), Qashqai (08-09), X-Trail (07-08) with engine codes: M9R 780, 830, 832, 833
  - Renault: Koleos (08-09), Laguna (05-08), Mengane (07-08), Scenic (08-09) Traffic (07-08), Vel Satis (08-09) engine codes: M9R 700, 721, 724, 740, 742, 446, 760, 761, 780, 802, 803, 805, 830, 832, 833
  - Vauxhall/Opel: Vivaro (07-08) engine codes: M9R 780, 782, 784



Item #
8421



## Water Pump Gear Holding Tool, Opel Ecotec Engines

- holds the timing chain and gear in place while removing and installing the water pump on GM Ecotec engines
- holding the sprocket prevents loss of timing or damage to the engine
- special half-moon design allows easier access to water pump gear bolts
- uses access cover bolts to hold the tool in place



Item #
8420



## Pulley Holder for the High-Pressure Pump on Opel, Renault, Nissan

- suitable for Diesel engines with F9Q engine code in Opel, Renault, Nissan cars
- no need to disassemble the tooth belt
- pump wheel is locked securely because of high accuracy
- pump does not need to be re-adjusted
- helps to save time and money through reduced workload



Item #
8278



## Timing Tool Set for Opel / Vauxhall, Chevrolet 2.0 CDI

- for 2.0L common rail diesel engine with engine code: Z20DM - Z20DMH - LLWZ20DMH - RA420 Z20Si - Z20S3 - Z20S4 - Z20S5
- for changing the timing belt and checking the engine timing
- holds camshaft and crankshaft in the correct position
- camshaft locking tool to be used as OEM EN-48245
- crankshaft locking pin to be used as OEM EN-48246



Item #
66202



## Locking Tool Kit for Opel/Vauxhall Ecotec V6 Engines

- clamping kit for Opel/Vauxhall Ecotec V6 engines with multiple valve technique
- includes all necessary tools for clamping / locking crankshaft and camshaft

content:

- crankshaft locking device
- adjustment gauge for camshaft
- locking device for drive belt
- locking the left camshaft
- locking the right camshaft



Item #
1779



## Opel Engine Timing Tool Kit

contains important tools for:

- locking the camshaft and crankshaft
- assembly and removal of fuel injection pump and water pump
- tensioning and changing of the timing belt
- belt pulley and flywheel

- complete classification chart included

suitable for:

- Opel Z 19 DT / Z 19 DTH engine (OHC und DOHC) e.g. in Vectra C and Signum '04
- Opel Z13 DT engines e.g. in Corsa and Combo '04
- Opel with Z 22 SE engine in Astra G, Vectra C, Zafira, Signum and Speedster Vx220 since '00 - '04
- Opel with 1.0l - 12V, 1.2l and 1.4l 16V petrol engines (X10XE, Z10XE, Z10XEP, X12XE, Z12XE, Z14XEP) e.g. Corsa, Agila, Astra and Meriva
- Opel 2.0l and 2.2l Ecotec diesel-engines (X20DTL, X20DTH, X22DTH) e.g. Astra, Astra, Caravan, Zafira, Vectra, Omega, Sintra and Frontera

Engines may be identical in construction to Renault and Saab



Item #	Description
8151	Opel Engine Timing Tool Kit
8151-1	Water Pump Locking Tool Opel, from BGS 8151
8151-2	Camshaft Locking Tool Opel, from BGS 8151
8151-3	Camshaft Locking Tool Opel, from BGS 8151
8151-6	Adjusting Ruler for Pick-Up Disk Opel, from BGS 8151
8151-8	Crankshaft Locking Tool Opel, from BGS 8151
8151-10	Locking Pin for Timing Chain Tensioner Opel, from BGS 8151
8151-12	Camshaft Locking Tools Opel, from BGS 8151
8151-16	Camshaft Alignment Tool Opel, from BGS 8151
8151-17	Crankshaft Locking Tool Opel, from BGS 8151
8151-19	Addition for Crankshafts Locking Tool Opel, from BGS 8151
8151-22	Tensioner Locking Tool Opel, from BGS 8151

## Timing Tool Set for Opel Vectra, Signum, Zafira

- includes following tools for setting engine valve timing on 2.2L 16v timing chains:
  - camshaft locking tool
  - locking pin for chain tensioner
  - counterholder for crankshaft
  - locking tool for water pump
- suitable for:
  - Astra G (2000 - 2006)
  - Speedster / (Vauxhall) VX220 (2000-2006)
  - Vectra B / C (2000-2008)
  - Signum (2003-2008)
  - Zafira A / B (2000-2008)
  - with engine code Z22SE and Z22YH

Item #
62506



## Timing Tool Kit for Opel 3-Cylinder Engines

- for engine codes: X10XE and X12XE
- includes important tools for e.g.:
  - changing the timing chain and other jobs on the valve train
  - working on the intake and exhaust camshafts
  - fixing the crankshaft
- suitable for following car models:
  - Agila, Corsa 1.0 12V and 1.2 16V

Item #
8303



## Face Plate Removing Tool, Audi A4

- e.g. for Audi A4, Passat (from 1997)
- for changing the toothed belt or replacing the water pump without adjusting the hood lock and the gaps

Item #
8023



## Tooth Belt Tool Set for VAG

- set for working and locking the tooth belt tensioner rolls
- is needed when changing the tooth belt and during general engine repair jobs
- for the most common VW, Audi, Seat, Skoda fuel and Diesel engines
- no displacing of tooth belt tension when tightening the nut
- 3 tensioner pulley wrenches in different length and offset shapes used as OEM T10020, OEM V159
- 3 locking pins for tooth belt spanners
  - 1.6 mm used as OEM T40011
  - 2.5 mm used as OEM T03006
  - 4 mm used as OEM T10060A

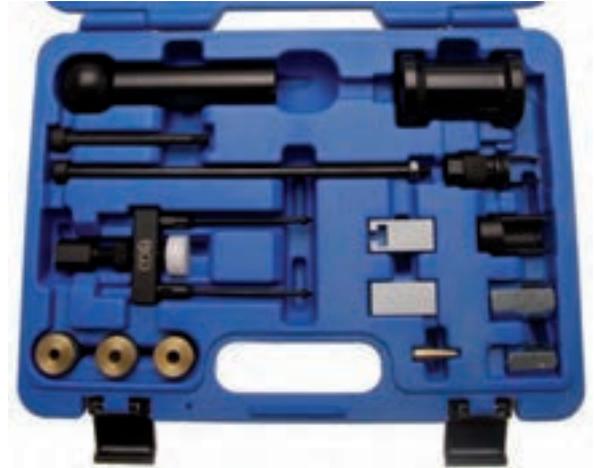


Item #
8241



## FSI Injector Assembly and Disassembly Kit

- suitable for VW, AUDI, SEAT, SKODA, with direct injection engines and engines with pump-injector units use as OEM tool kit T10133 + T10163
- includes the following tools:
  - puller for dismantling FSI injectors, use as T10133/1
  - puller claw for dismantling FSI injectors, use as T10133/2
  - sliding hammer, use as T10133/3
  - cone for mounting the combustion chamber rings use as T10133/5
  - 3 calibration tools for mounting the combustion chamber rings, use as T10133/6, T10133/7, T10133/8
  - built-in pin for mounting the FSI injectors use as T10133/9
  - extractor for dismantling pump-injector units



Item #
68345



## Engine Timing Tool for VW 1.2 L Engines

- needed to control the engine timing and for replacement of the timing belt
- suitable for VAG 3 cylinder engines with engine codes AMY, BMD, BBM
- use as OEM T10120



Item #
8155-2



## Engine Timing Tools for VW 1.2 L Engines

- 2 pieces
- also replacement for BGS 8153 / 8155
- to be used as OEM T10123



Item #
8155-1



## Crankshaft Locking Tool for VAG

- fits on 1.9l VW, AUDI, SEAT, SKODA engines with round crankshaft timing belt wheel
- to be used as OEM T10050

Item #
62643



## Crankshaft Timing Belt Pulley Locking Tool

- for VAG 2.0L TDI and some 1,9LTDI engines with oval crankshaft wheel
- to be used as VAG OEM T10100

Item #
62642



## 3-piece Crankshaft Timing Belt Pulley Locking Tool Set

- for VAG 1,9 and 2.0l TDI engines with round crankshaft wheel
- includes:
  - crankshaft locking Tool to be used as OEM T10100
  - locking bolt for pump to be used as OEM 3359
  - locking plate for idler to be used as OEM T10008

Item #
62641



## 3-piece Crankshaft Timing Belt Pulley Locking Tool Set

- for VAG 2.0 liter TDI and some 1,9L TDI with oval crankshaft wheel
- use as OEM T10100
- includes:
  - crankshaft locking Tool to be used as OEM T10100
  - locking bolt for pump to be used as OEM 3359
  - locking plate for idler to be used as OEM T10008

Item #
62640



## Camshafts Sockets, VAG 1.8 / 2.8 TFSI

- used for removal and installation of 4/3-way central valve on the camshaft adjustment
- suitable for VW Passat, Audi A3, A4, A5, Q5 1.8l and 2.0 liter engines with chain drive
- to be used as OEM T10352 / T10352/1

Item #
8565



## Special Crankshaft Rotation Tool for VAG 5 Cylinder Engines

- necessary for crankshaft adjustment and use as a lever
- suitable for all 5 cylinder VW Diesel engines e.g. in VW Touareg as of 2003 and Transporter as of 2004
- fixing screw allows easy mounting on crankshaft
- use like OEM VAG T10225

Item #
8249



## Crankshaft Rotation Tool VAG

- facilitates turning the crankshaft for e.g. checking the engine timing
- suitable for Audi A6 2005>, Audi A8 2003> with 6- and 8-cyl. engines 2.4 L, 3.2 L FSI, 6 - and 8-cyl. TDI Common Rail
- to be used as OEM T40058

Item #
8555



## Setting Gauges for Pump-Nozzle Unit on 3- and 4-cylinder engines

- for adjusting the pump-nozzle units
- suitable for 3- and 4-cylinder engines and for pump-nozzle units with old and new solenoid valve nut

Item #
68341



## 5-piece Engine Timing Tool Kit for VW Diesel Engines

- for engine codes AAB, AJA, BJJ, BJK, BJL, BJM
- for VW Transporter 2.4D (95-03), Crafter 2.5TDI (06-09) and LT Models
- to be used as OEM T10025 - 2065A - 2064



Item #
8216



## 7-piece Engine Timing Tool Kit for VAG

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



Item #
8219



## 3-piece Engine Timing Tool Kit for VAG

- suitable for VAG FSI and TFSI 1.4L and 1.6L engines
- contains following tools:
  - camshaft locking tool, to be used as OEM T10171
  - setting gauge holder, to be used as T10170
- fits for engine codes AXU, BAG, BKG, BLF, BLN, BLP
- to check and adjust camshaft timing
- required when replacing timing chains



Item #
62625



## VW / Audi Engine Timing Tool Kit

- suitable for 1.8 L and 1.6L Turbo FSI engines
- crankshaft counterholder similar to OEM 3036
- camshaft setting tool similar to OEM T10171
- counterholder for timing chain sprocket, camshaft, vibration damper similar OEM T10172
- adaptors for counterholder similar OEM T10172
- holder for chain adjuster for assembly and disassembly of the chain adjuster similar to OEM T20018 / 3366
- for following car models

### Audi:

- A3 1,8Turbo (AGN AGU AJQ APG APP AQA ARX ARY ARZ AUM AUQ) 1996-2003
- A3 1,6FSI (BAG) 2003-2006
- S3 1,8Turbo (AMK APY BAM) 1996
- A4 1,8Turbo (ADR AEB AJL AJP ANB APU AVJ AWT) 1994-2006
- A6 1,8Turbo (ADR AEB AJL AJP ANB APU AVJ AWT) 1994-2006
- Cabriolet 1,8 (ADR) 1997-2000
- TT 1,8Turbo (AJQ APP APX AUM AUQ BAM) 1998-2006

### Volkswagen:

- Beetle 1,8Turbo (AVC) 1999-2006
- Touran 1,6 FSI (BAG BLP) 2003-2007
- Golf 1,8Turbo (AGN AGU AQA ARZ AUM AUQ) 1997-2005
- Bora 1,8Turbo (AGN AGU AQA ARZ AUM AUQ) 1997-2005
- Passat 1,8Turbo (ADR AEB ANB APT APU ARG AWT) 1996-2005

### Seat:

- Sharan 1,8Turbo (AJH AWC) 1997-2007
- Ibiza 1,8Turbo (AQX AYP) 1999-2002
- Cordoba 1,8Turbo (AQX AYP) 1999-2002
- Leon 1,8Turbo (AJQ AQN APG APP APT ARYAUAUQ) 1999-2005
- Toledo Turbo (AQN APG APT ARY AUQ) 1999-2005
- Alhambra 1,8Turbo (AJW AWC) 1997-2007

### Skoda:

- Octavia 1,8FSI Turbo (AGN AGU ARX ARZ AUM) 1996-2005
- Octavia 1,8Turbo 20V RS (AUQ) 2000-2006
- Oktavia 1,6FSI (BLF) 2004-2007



Engine

Item #
8261



## Engine Timing Tool Set for VW Polo, Lupo

- for VAG 1.2 L 3-cylinder engines
- includes following tools:
  - camshaft locking tool, to be used as OEM T10123
  - camshaft locking tool, to be used as OEM T10120
  - crankshaft locking tool, to be used as OEM T10121
- suitable for models with engine codes:
  - Fabia 1,2l 12V AWY, AZY, BMD, BME
  - Polo 9N 1,2l 12V AWY, AZY, BMD, BME
  - A3 1,2l 12V AWY, AZY, BMD, BME



Item #
8158



## Waterpump Disassembly Tool

- suitable for VW T5, Touareg 2.5D
- contains the following tools:
  - gear wheel puller, for disassembling of waterpump gear wheel, to be used as OEM T10222A
  - water pump puller, for disassembling of waterpump to be used as OEM T10221A
  - special key, for T5 crankshafts for counterholding the crankshaft when loosening the waterpump's gear wheel screw, to be used as OEM T10225

Item #	
8221	



## Timing Tool Set for VAG 1.6 & 2.0L TDI

- fits on:
  - Audi A1, A3 (8P) A4 (B8) A5 A6 (C6, C7), TT (8J), Q3, Q5
  - Skoda Fabia, Roomster, Practice Octavia II, Suberb II, Yeti,
  - Seat Ibiza (6J), Leon III, Exeo, Altea, Alhambra II
  - VW Golf V, VI & Plus, Passat, Polo V, Jetta V, & VI, Scirocco III, Beetle II, II Caddy, Passat B6, B7 & CC Touran, Sharan II, T5, Amarok
- includes important tools for checking and adjusting engine timing after e.g. timing belt replacement
- Injection Pump Locking Pin to be used as OEM MP1-301, T20102, MP1-301, U40074, 3359
- Crankshaft Setting Tool (Non bored engine) to be used as OEM T10100
- Ball End Hex Key 6 mm to be used as OEMT10264
- 2.5mm Tensioner Pulley Locking Pin to be used as OEMT10265
- 3.9mm Tensioner Pulley Locking Pin to be used as OEMT40098
- Sprocket Holding Tool to be used as OEMT 10051
- Camshaft Sprocket Hub Puller to be used as OEM T10052
- Oil Pump Balancer Shaft Alignment Tool to be used as OEM T10255

Item #	
66200	



## Engine Timing Tool Kit for VAG 2.5 / 4.9D / TDI PD

- suitable for VW T5 as of 2004, Touareg and Phaeton as of 2003 with 5 and 10 cylinder engines
- camshaft locking tool for review and adjustment, suitable for 5 and 10 cylinder engines, to be used as OEM T10193
- camshaft locking tool for review and adjustment of 10 cylinder engines, to be used as OEM T10194
- clamping device for removal and replacement of the camshaft wheels of 5 and 10 cylinder engines, to be used as OEM T10199
- special socket for rotating the crankshaft of 5 cylinder engines, to be used as OEM T10225
- crankshaft locking wrench for 5 cylinder engines, to be used as OEM T10226
- tensioner wrench

Item #	
8443	



## Engine Timing Tool Set for VAG 2.7 & 3.0 TDI

- suitable for Audi A4, A5, A6, AB, Q5, Q7 and VW Touareg, Phaeton with engine codes: ASB, BKN, BKS, BMK, BMZ, BNG, BPP, BSG, BUG, BUN, CAMA, CAMB, CANA, CANB, CANC, CAND, CAPA, CARA, CARB, CASA, CASB, CASC, CATA, CCMA, CCWA, CCWB, CDYA, CDYB, CDYC, CEXA, CGKA, CGKB
- for locking the camshaft, crankshaft and fixing the chain tensioner
- required for timing chain replacement or engine repair
- includes:
  - camshaft locking pin to be used as OEM T40062
  - camshaft tool to be used as OEM T40061
  - rotating adapter for crankshaft to be used as OEM T40049
  - locking pin for injection pump to be used as OEM 3359
  - rotating adapter for crankshaft to be used as OEM T40058
  - camshaft locking tool 2x to be used as OEM T40060
  - crankshaft locking pin to be used as OEM 3242
  - locking pin for chain tensioner 2x



Item #
66205



## Engine Timing Tool Set for AUDI V6 30V

- suitable for Audi A4, A6, A8 with engine codes: ASN, AVK, BBJ
- for timing belt replacement and repair work on the engine
- easy mounting of the belt as camshaft and crankshaft are fixed
- contains:
  - 2 camshaft fixer tool, to be used as OEM T40030
  - crankshaft fixer tool, to be used as OEM T40026
  - tension roller key, to be used as OEM 3387
  - socket for basic adjustment of the camshaft adjuster to be used as OEM T40028
  - pins for clamping element, to be used as OEM T40011



Item #
8299



## Engine Timing Tool Set for VAG 2.4 & 3.2 FSI

- for checking and adjusting the engine timing
- suitable for Audi V6, V8 and V10 engines with chain
- includes:
  - camshaft locking tool to be used as OEM T40070
  - crankshaft locking pin to be used as OEM T40069
  - chain tensioner locking pin to be used as OEM T40071



Item #
66210



## VAG Engine Timing Tool Kit

- suitable for following engines:  
1.9/2.0 ltr. unit injector drive; 1.9 ltr. TDI (normal diesel)  
2.5 ltr. V6-TDI (no gasoline); 3.3 ltr. V8-TDI (no gasoline)  
1.2 ltr. 3-cylinder and 1.4/1.6 ltr. gasoline engine
- contains important adjustment tools such as:  
setting gauge for camshaft (e.g. VW 1.9 l. TDI)
- locking tool for timing belt  
(e.g. VW / Skoda 1,9 l / 2.0 l TDI pump/nozzle)
- camshaft locking tool (e.g. VW / Audi 2.5 l V6 TDI)
- adjustable tensioner wrench (universal for VW / Audi)
- injection pump locking pin  
(e.g. VW / Audi / Seat / Skoda)
- mounting plate for timing belt tensioner  
(VW / Skoda 4 cyl. TDI pump/nozzle)
- 22 mm open socket for diesel injectors
- can be used as following OEM tools
- camshaft setting tools, to be used as OEM  
T10123, T10120, 3458, 3418, 2065A, 3366, T10098 / 3418
- crankshaft setting tools, to be used as OEM  
T10121, 3242, T10050 (round sprocket), T10100 (oval sprocket)
- tensioner pulley locking pins, to be used as OEM  
T10060A, T10020, T10008, T40011
- injection pump locking tools, to be used as OEM 3359, 2064



Item #	Description
<b>8155</b>	<b>VAG Engine Timing Tool Kit</b>
<b>8155-01</b>	<b>Camshaft Alignment Tool VAG, from BGS 8155</b>
<b>8155-5</b>	<b>Crankshaft Locking Tool from BGS 8155</b>
<b>8155-6</b>	<b>Crankshaft Locking Tool VAG 6 &amp; 8 cyl., from BGS 8155</b>
<b>8155-8</b>	<b>Camshaft Locking Tool VAG, from BGS 8155</b>
<b>8155-9</b>	<b>Tensioner Wrench VAG, from BGS 8155</b>
<b>8155-12</b>	<b>Injector Wrench VAG, from BGS 8155</b>
<b>8155-15</b>	<b>Fixing Screw VAG, from BGS 8155</b>
<b>8155-16</b>	<b>Stud with Nut, from BGS 8155</b>
<b>8155-17</b>	<b>Fixing Pin for Tension Pulley VAG, from BGS 8155</b>
<b>8155-18</b>	<b>Camshaft Alignment Tool VAG, from BGS 8155</b>
<b>8155-19</b>	<b>Camshaft Locking Tool from BGS 8155</b>
<b>8155-23</b>	<b>Locking Pin from BGS 8155</b>
<b>8155-24</b>	<b>Angle Internal Hexagon Wrench 6 mm from BGS 8155</b>
<b>8155-25</b>	<b>Locking Tool from BGS 8155</b>
<b>8155-26</b>	<b>3-Side Wrench for BGS 8155</b>
<b>8155-27</b>	<b>Crankshaft Locking Tool from BGS 8155</b>



Engine

## Timing Tool Set for 2.5 & 2.8L PSA Diesel Engines

- includes 2 setting pins, flywheel locking pin and tensioner retaining tool
- suitable for following models:  
- Citroen, Peugeot, Fiat, Iveco Traffic (80-00), Master (80-07), Mascot (99-07)  
- Fiat, PSA, Renault Daily (91-05), Turbo Daily (94-00), Relay / Jumper (01-02)  
Boxer (00-06), Arena (97-01), Movano (98-03)

Item #
8418



## Setting and Timing Tool for Diesel Pumps

- for F8Q and F9Q diesel engines with adjustable pump wheel
- used in Renault Megan / Scenic / Kangoo, Mitsubishi Carisma, Opel / Vauxhall Arena, Volvo S40/V40 etc.
- special socket with 27 mm hexagon and 1/2" drive
- setting tool with 3 x 4 mm pins to adjust the pump
- adapter for Bosch pumps 8 to 10 mm



Item #
8281



## Engine Timing Tool Set for Citroen / Peugeot

contains important tools for adjustment of:

- flywheel
- crankshaft
- camshaft
- fuel injection pump shaft
- belt pulley
- tensioning of the timing belt
- complete classification chart included
- suitable for Citroen and Peugeot 16 valve engines i.e. 1.8l-16V and 2.0l 16V with engine code EW (incl. HPI engines) for example: C5, 206, 306 and 406
- suitable for Citroen und Peugeot 1.9D, 2.0D, 2.2D engine code DW8, DW10, DW12 HDI used by Citroen, Fiat, Peugeot and Toyota
- diesel engines (XUD+TUD)
- gasoline engines (XU+TU)

Engines may be identical in construction to Toyota and Fiat



Item #	Description
8152	Engine Timing Tool Set for Citroen / Peugeot
8152-19	Crankshaft Locking Tool Peugeot / Citroen, from BGS 8152
8152-30	Camshaft Locking Tool Peugeot / Citroen, from BGS 8152

## Camshaft Locking Tool for Renault 1.8 & 2.0 16V

- for locking the camshaft sprocket to be used as MOT 1509-01, 1509
- suitable for:  
Renault Laguna II (2001-09),  
Clio II (2002-09),  
Scenic (2002-09),  
engine codes: 700, 701, 712, 713, 714, 715, 720, 721, 722, 722, 730, 732, 736, 738, 740, 741, 744, 746, 747, 760, 761, 762, 763, 764, 765, 766, 767, 770, 771, 773, 774, 774, 775, 776, 784, 786, 787, 790, 792, 794, 797, 830, F4P, F4R



Item #
8577



Engine

## Timing Tool Set for Renault / Volvo 16V & 20V Petrol Engines

- contains important tools for adjusting the engine timing
- fit Renault Laguna (96-99) and Safrane (96-01) models with engine codes N7Q 704, 710, 711 - N7U 700, 701
- also suitable for Volvo models: 850 (92-97) - C70 (98-02) - S40 (96-04) - V40 (96-04) S60 (01-05) - S70 (97-00) - S80 (99-05)
- 1.6 - 1.8 - 1.9 - 2.0 - 2.3 - 2.4 - 2.5l twin cam
- with engine codes:  
B4164 S/S2  
B4184 S/S2/S3/S9/S10  
B4194 T/T2  
B4204 S/S2/T/T2/T3/T5  
B5202 FS  
B5204 FT/T2/T3/T4/T5  
B5234 T3/T4/T5/T6/T7/T8/T9  
B5244 S/S2/SG/SG2/T3/T4/T5/T7  
B5252 FS  
B5254 T/T2/T4



Item #	PRO+	
8417		

## Locking Tool for Injection Pump Sprocket, Renault

- for locking the injection pump sprocket for timing belt replacement and other works when dismantling of the timing belt is required
- suitable for Renault Clio, Megane, Laguna, Kangoo with 1.9 TDi engine code numbers: F9Q
- to be used as OEM tool 1200-01



Item #	PRO+
8407	

## Engine Timing Tool Kit for Renault 1.5 / 1.9 DCI

- includes important tools for easy change of timing belt
- suitable for Renault Laguna, Clio and Kangoo with 1.5 and 1.9 DCi engine
- crankshaft locking pin to use as: OEM MOT 1489
- camshaft / crankshaft timing pin to use as: OEM 0194B, 999-7122, 21-263, MOT 1430, 0187B, 0189B
- TDC Timing Pin to use as: KM603 OEM, MOT 1054 MOT 861 MOT 863



Item #	PRO+
8145	

## Engine Timing Tool Set for Renault

contains important tools for adjustment of:

- flywheel
- crankshaft
- camshaft / pumpshaft
- fuel injection pump shaft
- belt pulley
- tensioning of the timing belt
- includes adjusting gauge for camshaft, crankshaft, pumpshaft

- complete classification chart included

- for i.e. 1.4 ltr. + 1.6 ltr. + 1.8 ltr. + 2.0 ltr. each with 16 valve
- 2.5 ltr. 20V with double camshaft
- 1.2 ltr. + 1.4 ltr. + 1.6 ltr. + 1.7 ltr. + 1.8 ltr. + 2.0 ltr. + 2.2 ltr.
- diesel engines 1.9 ltr. + 2.5 ltr. + 2.8 ltr.  
(partly identical with Opel Arena/Movano and Volvo V/S 40)

PRO+

Item #	Description
8154	Engine Timing Tool Set for Renault
8154-1	Camshaft Tool Renault, from BGS 8154
8154-2	Crankshaft Locking Tool Renault, from BGS 8154
8154-4	Flywheel Locking Tool from BGS 8154



Engine

## 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+



## 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+



### 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 Zetec und Zetec SE Engine
- includes:
  - crankshaft timing tool  
to be used as OEM 303-748, 999-7152, 21-259  
9997152, 303-574, 21-163, 303-620, 999-7201  
303-507, 999-715, 21-210
  - camshaft alignment plate  
to be used as OEM 303-376, 303-376B, 999-7151

Item #
8215



### 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  
to be used as OEM 303-1097
- tensioner pulley locking pin  
to be used as OEM 303-1054
- flywheel timing pin  
to be used as OEM 303-1059, 303-1270, 0188X, 999-7121
- crankshaft timing pin  
to be used as OEM 303-748, 999-7152, 21-259
- camshaft sprocket locking tool  
to be used as OEM 303-735, 999 7122, 0187B, 0189B, 0132AJ1, 21-263, 0188M, MOT 1430, 303-1277, 0194B

Item #
8218



### Locking Tool Set Ford 2.0 / 2.4 TDCi

- suitable for Ford 2.0 + 2.4 16V TDCi and TDDi engines, installed on Mondeo, Transit ('01-'04), etc.
- for engine codes FMBA / B, D5BA, ABFA, D3FA, F3FA, D2FA, D4FA, F4FA
- for locking or positioning of the cam, injection pump and crankshaft
- needed for chain changes, engine repairs and work on the injection pump

Item #
8317



## Engine Timing Tool Set for Ford

contains important tools for adjustment of:

- flywheel
- crankshaft
- camshaft / pump shaft
- fuel injection pump shaft
- belt pulley
- tensioning of the timing belt
- includes adjusting gauge for camshaft, crankshaft, pumpshaft
- complete classification chart included
- for e.g.: 1.4 ltr. + 1.6 ltr 16V + 1.7 ltr. + 1.8 ltr. 16V + 2.0 ltr. 16V (also Zetec)
- 1.4 ltr. - 1.6 ltr. - 1.8 ltr. and 1.9 ltr. D/TD/TDCi

PRO+

Item #	Description
8156	Engine Timing Tool Set for Ford
8156-1	Camshaft Alignment Tool Ford, from BGS 8156
8156-2	Crankshaft Locking Tool Ford, from BGS 8156
8156-3	Injection Pump Locking Tool 15.4 Ford, from BGS 8156
8156-4	Crankshaft Locking Tool Ford, from BGS 8156
8156-5	Crankshaft Locking Tool Ford, from BGS 8156
8156-6	Fixing Pin 8.2 mm Ford, from BGS 8156
8156-12	Feeler Gauge Ford, from BGS 8156
8156-14	Crankshaft Locking Tool 12.7 mm Ford, from BGS 8156
8156-17	Camshaft Holding Tool Ford, from BGS 8156
8156-18	Handwheel Ford, from BGS 8156
8156-19	Camshaft Adjusting Ruler from BGS 8156



Engine

## Timing Tool Set for Fiat, Ford, Lancia 1.2 & 1.4 8V

- facilitates changing of the timing belt and allows checking of the engine timing on following cars:
  - Fiat: 500 (07-12), Doblo/Cargo (05-10), Grande Punto (07-12), Idea (04-12), Linea (07-11), Panda EVO2, Punto EVO (09-12)
  - Lancia: Ypsilon (06-11), Musa (05-12)
  - Ford: Ka (09-12)
- fits following engines models:
  - Fiat: 1.2/1.2 Dualogic, 169A4.000, 188A4.000 (EVO2), 199A4.000
  - 1.4/1.4 Bi-Fuel LPG / 1.4 Natural Power CNG, 199A7.000, 350A1.000
  - Lancia: 1.4/1.4 Bi-Fuel LPG, 350A1.000
  - Ford: 1.2 Duratec, 169A4.000 (FP4)
- includes following tools:
  - Crankshaft Locking Tool to be used as OEM 2.000.004.500 on Fiat/Lancia and OEM 303-1480 on Ford
  - Camshaft Setting Tool to be used as OEM 2.000.004.400 on Fiat/Lancia and OEM 303-1479 on Ford
  - Camshaft Sprocket Locking Tool to be used as OEM 2.000.004.200 on Fiat/Lancia and OEM 303-1477 on Ford
  - Camshaft Cover Aligner to be used as OEM 2.000.004.300 on Fiat/Lancia and OEM 303-1478 on Ford
  - Tensioner Adjuster to be used as OEM 1.860.987.000 on Fiat/Lancia



Item #  
8578

PRO+

## Timing Tool Kit for Fiat 2.3 JTD

- includes important adjusting tools for checking and setting of the engine timing



Item #
8422



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

contains important tools for adjustment of:

- 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 #	Description
8159	63-piece Fiat / Alfa / Lancia Engine Timing Tool Kit
8159-6	Camshaft Locking Tool 2-pc. Fiat / Alfa / Lancia, from BGS 8159
8159-16	Tensioner Wrench Fiat / Alfa / Lancia, from BGS 8159
8159-17	Gauge to determine the piston height of Fiat / Alfa / Lancia, from BGS 8159

## Timing Tool Set for Fiat, Lancia, Alfa Romeo

- contains 1 special socket 1/2" dr. for disassembly of the phase adjuster
- 23 custom fit timing tools for inlet camshaft and exhaust camshaft prevent distortion of camshafts and allow setting them in mounting position for the tooth belt
- locking tools are numbered and have different colours to avoid mix-up
- can also be used for exact positioning of the crankshaft using the TDC setting plug and an optional micrometer (BGS 1938-1, not contained in set)
- fits following cars:
  - Fiat Bravo 1,4 12V & 2,0 20V; Brava 1,4 12V & 2,0 20V; Marea 2,0 20V; Coupe 1,8 16V; Barchetta 1,8 16V; Punto 1,8 16V
  - Lancia K5 2,0 20V; 4 Zyl. VIS Motoren ab BJ. 96; Delta 1,8 16V Step A; Dedra 1,8 16V Step A; Y10 1,4 12V
  - Alfa 145 1400 & 1600 16V Step A; Romeo 146 1400 & 1600 16V Step A; 147 1600 16V Step A; 147 105 PS; 147 1600 eco 103 hp; 155 1400 & 1600 16V Step A; 156 1600 16V Step A; 156 1800 - 2000 16V; 156 2000 JTS; 166 2000; GTV 2000 JTS; Spider GT 2000 JTS 16V 165PS



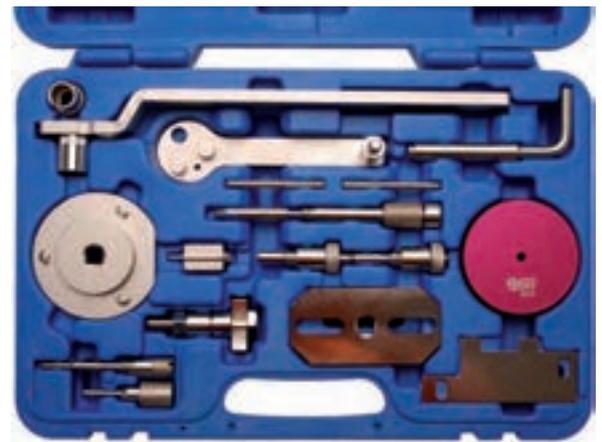
Engine

Item #
8240



## Timing Tool Set for FIAT and PSA Engines

- includes important tools for adjusting the engine timing
- suitable for Fiat cars with following engines:
  - 2,2 JTD 4HV
  - 2,3 JTD F1AE0481D 120PS
  - 2,3 JTD F1AE0481D 127PS
  - 3.0 JTD
- also suitable for PSA engines:
  - Puma 22DT 4HV 100PS
  - Puma 22DT 4HV 120PS
  - F30DT



Item #
8413



## Timing Tool Set for Chrysler 2.5 CRD

- for checking and adjusting the engine timing
- suitable for:
  - Chrysler Voyager, Grand Voyager R2516C, R2516L, R2816K engine
  - Jeep Cherokee (01-08) 2.5 / 2.8 engine
  - LDV Maxus (05-08) VM2516L engine
- camshaft locking pin (inlet) to be used as OEM VM1052
- camshaft locking pin (exhaust) to be used as OEM VM1053
- flywheel locking pin (Voyager, Grand Voyager 2.5 / 2.8 and LDV Maxus) to be used as OEM VM1068 / VM1089
- flywheel locking pin (Jeep Cherokee 2.8) to be used as OEM VM1080
- flywheel locking pin (Jeep Cherokee 2.5) to be used as OEM VM8873
- tensioner wrench to be used as OEM VM9660
- balancer shaft locking pin
- flywheel locking pin



Item #
8500



## Engine Timing Tool Kit for Mercedes - Chrysler

- includes tools for locking the camshaft and crankshaft
- suitable for the following engines:
  - CDI 2.0L - 2.2L - 2.7L - 3.3L - 4.0L
  - D-DT 2.0L - 2.2L - 2.5L - 2.9L - 3.0L
  - Petrol 1.8L - 2.0L - 2.3L
- for engine series:
  - M 112, 113, 137, 155, 156, 272, 979, 273, 629, 642, 992, 102, 103 104, 111, 601, 602.91, 602.92, 602.93, 602.94, 602.96 602 986, 603.91, 603.93, 603.96, 603.97, 604, 605, 606, 611, 612, 965, 966, 613, 119, 611, 980, 612, 628, 629, 640, 642, 922, 612, 965, 966, 646, 647, 648
- flywheel locking tool, incl. 2 x M6x90mm bolts to be used as OEM 601589024000, 8932
- flywheel locking tool to be used as OEM 602589004000, 8933
- camshaft locking pin set to be used as OEM 111589031500, 8929

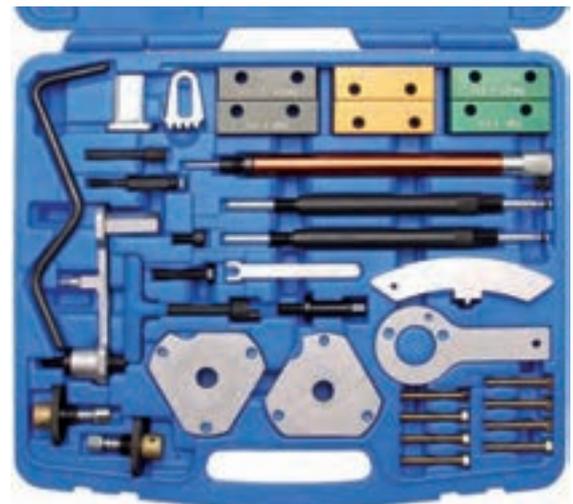


Item #
8222



## Fiat / Alfa Engine Timing Tool Kit

- contains important tools for adjustment:
- flywheel
  - crankshaft
  - camshaft
  - fuel injection pump shaft
  - belt pulley
  - tensioning of the timing belt
  - to be used as OEM:
    - 1 860 847 000, 1 860 875 000, 1 870 697 000,
    - 1 860 895 000, 1 895 879 000, 1 860 898 000,
    - 1 860 992 000, 1 860 992 000, 1 863 000 (8mm)
    - 1 860 771 000, 1 860 161 000, 1 860 874 000
    - 1 860 874 000, 1 860 876 000, 1 860 845 000
    - 1 860 876 000, 1 860 965 000, 1 860 901 000
    - 1 860 905 010, 1 860 987 000, 1 860 985 000
  - complete classification chart included



Item #
8148



## 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



## 10-piece Engine Timing Tool Kit for Mini and PSA

- is needed for replacing the cylinder head sealing and motor timing
- suitable for the following Mini models: One, HB Cooper, Cooper, series R55-56 with motor code N12
- crankshaft locking tool use as OEM 119590
- camshaft locking tool use as OEM 119540
- chain tensioner use as OEM 119340
- also suitable for: Citroen C4 (08-09), C4 Picasso (08-09) Peugeot 207 (06-09), 207CC (07-09), 308 (01-09) with engine: 1.4 VTi (Valvetronic), EP3 (8FS) (Valvetronic) EP6 (5FW), 1.6THP (Direct Injection), EP6DT (5FX) EP6DTS(5FY)

Item #
8302



## Engine Timing Tool Set for BMW 1.6L

- suitable for timing chain driven petrol engines with Vanos, engine codes N40, N45, N45T (B16)
- for following BMW Models:
  - 116 1.6 i E81/ E 87
  - 316 1.6 i E46 / E90
  - 316 1.6 Ci E46
  - 316 1.6 ti E46
- includes following tools:
  - flywheel locking pin to be used as OEM 119190
  - timing chain pre-tensioning tool to be used as OEM 119340, 119340, 119341
  - camshaft alignment tool (inlet) to be used as OEM 117252
  - camshaft alignment tool (exhaust) to be used as OEM 117251
  - VANOS alignment tool to be used as OEM 117260

Item #
62614



## 13-piece Engine Timing Tool Kit for BMW Diesel Engines

- for 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 #	Description
62616	13-piece Engine Timing Tool Kit for BMW Diesel Engines
62616-2	Camshafts Locking Tool for BMW from BGS 62616

## 13-piece Engine Timing Tool Kit for BMW Mini

- for engine codes:
  - W10, W11, N14
- contains important tools, e.g. for:
  - camshaft assembling / disassembling to be used as OEM 119551 und 119552
  - fixation of crankshaft to be used as OEM 119590
  - chain tensioner tool to be used as OEM 119340
- fits followings models:
  - Mini: One, Cooper, Cooper S, Cooper S JC Cooper S JCW type series R50-52-53-55-56-57)

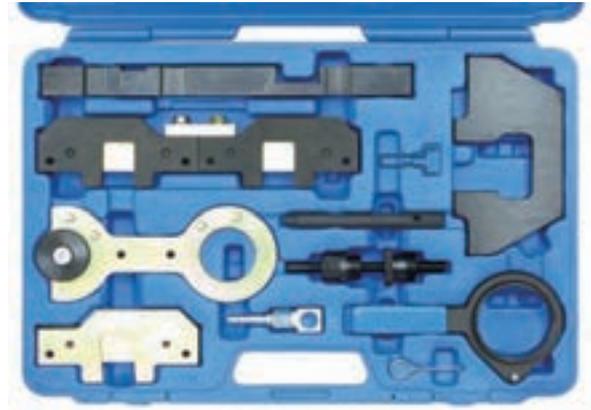


Item #
62618



## 11-piece Engine Timing Tool Kit for BMW Engines

- for engine codes:
  - M40, M43
  - M42, M44, M50, M52, M 54, M56  
(engines with double 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)
- contains important tools, e.g. for:
  - camshaft assembling / disassembling
  - M 40 timing belt change
  - valve timing of camshafts
- crankshaft locking tool, to be used as OEM 112300
- camshaft locking tool, to be used as OEM 113190
- camshaft locking tool, to be used as OEM 113240
- chain pre-tensioning tool, to be used as OEM 114220
- camshaft sprocket turning tool, to be used as OEM 115490
- air adapter, to be used as OEM 113450
- chain tensioner locking pin set, to be used as OEM 113290  
consisting of locking clip, to be used as OEM 113291  
and locking pin, to be used as OEM 113292
- double vanos locking tool, to be used as OEM 116150



Item #
62615



Engine

## Engine Timing Tool Set for BMW M52, M54, M60, M62

- for setting and checking the engine timing
- suitable for the following BMW models:
  - 320 E46 - 323 E46 - 325 E46
  - 328 E46 - 330 E46 - 520 E39
  - 520 E60 - 520 E39 - 523 E39
  - 525 E39 - 525 E60 - 528 E39
  - 530 E34 - 540 E34 - 535 E39
  - 530 E39 - 530 E60 - 728 E38
  - 730 E65 - 730 E35 - 730 E32
  - 735 E38 - 740 E32 - 740 E38
  - X3 E83 - X5 E53 - Z3 - Z4 E85
- Camshaft Adjusting Tool (M52, M54)  
to be used as OEM 11 6 150
- Vanos Tool (M52, M54)  
to be used as OEM 11 3 450
- Camshaft Adjusting Tool Cyl. 1-4 (M60, M62)  
to be used as OEM 11 2 445 / OEM 11 2 441
- Camshaft Adjusting Tool Cyl. 5-8 (M60, M62)  
to be used as OEM 11 2 442 / OEM 11 2 446
- Chain Tensioner (M52, M54)  
to be used as OEM 11 4 220
- Chain Tensioner (M60, M62)  
to be used as OEM 11 4 230
- Crankshaft Adjusting Tool  
to be used as OEM 11 2 300
- Adaptor (M52, M54)  
Tensioner Pin (M60, M62)



Item #
8534



## Engine Timing Tool Kit for BMW Engines N51, N52, N53, N54

- for engine codes:
  - N51- N52 - N53 - N54
- contains important tools, e.g.:
  - camshaft assembling / disassembling
  - timing belt change
  - checking and adjustment of valve timing
- camshaft locking tool, to be used as OEM 114280
- transmitter wheel locking tool, to be used as OEM 114290
- crankshaft locking tool to be used as OEM 110300
- suitable for following models:
  - 128i, 130i, 135i - E81 / E82 / E87
  - 323i, 325i, 328i, 330i, 335i - E90 / E91 / E92 / E93
  - 523i, 525i, 528i, 530i - E60 / E61
  - 535i, 630i - E63 / E64
  - 730i - E65 / E66
  - X3 2.5 / 3.0 - E83
  - X5 3.0 - E70
  - Z4 2.5 / 3.0 - E85 / E86

Item #
62619



## 26-piece Engine Timing Tool Kit for BMW Engines

- for engine codes:
  - N42, N46, B18/-A, B20/-A/-B
- fits following models:
  - BMW: 1, 3, 5, X3, Z4 (type series E87-46-60-85-83-90-91)
- contains important tools, e.g. for:
  - camshaft assembling / disassembling
  - valve timing of camshafts
- clamps for intermediate lever, to be used as OEM 119310
- bearing bridge holder, to be used as OEM 119320
- thumbscrew, to be used as OEM 119302
- eccentric shaft holder, to be used as OEM 119301
- camshaft locking tool, to be used as OEM 119290
- camshaft locking tool (inlet), to be used as OEM 119302
- clamping tool, to be used as OEM 11940
- spring holder, to be used as OEM 119390
- camshaft sensor tool, to be used as OEM 119350
- screw, to be used as OEM 119390
- camshaft rotation key, to be used as OEM 119270
- crankshaft locking tool (straight), to be used as OEM 112300
- mounting bolts 3x, to be used as OEM 119320
- screw, to be used as OEM 119290
- camshaft locking tool, to be used as OEM 119290
- crankshaft locking tool (angled), to be used as OEM 119190
- mounting bolts, to be used as OEM 119320

Item #
62617



## 11-piece Engine Timing Tool Kit for BMW

- contains the following tools:
- camshaft locking tool, to be used as OEM 113240 fits the following models and engines:
  - M42: 318i (E30 & E36) 318ti Compact (E36)
  - M44: 318is, 318ti Compact (E36), Z3 1.9i (E36 / 7)
  - M50: 320i, 325i (E36), 520, 525 (E34)
  - M52: 320, 323i, 323ti compact, 328i (E36) 320, 323i, 328 (E46), 520, 523i, 528 (E39), 728i (E38) Z3 2.0i, Z3 2.8 (E36 / 7), Z3 2.8i (E36 / 8)
- camshaft locking tool, to be used as OEM 113190 fits the following models and engines:
  - M40 & M43: 316i, 318i (E30 & E36), 518i (E34)
  - M43: Z3 1.8i (E36 / 7)
- camshaft locking tool, to be used as OEM 113320 fits the following models and engines:
  - M51: 325td, 325tds (E36), 525td, 525 (E34 + E39), 725tds (E38)
- tool for VANOS adjuster, to be used as OEM 115490
- crankshaft locking tool, to be used as OEM 112300
- tools for chain tensioner, to be used as OEM 113390/114220
- locking pin for tensioner, to be used as OEM 113292
- also suitable for identical engines in Opel and Range Rover



Item #
8146



## Flywheel Locking Tool for BMW

- for locking the flywheel (crankshaft) when loosening the flywheel screws, loosening the crankshaft pulley screws or other jobs where a locking of the crankshaft is required
- suitable for following BMW engines: M47T2 - M47TU - M57T2 - M57TU - M67 - N45 - N45T - N46 - N46T - N51 - N52 - N53 - N54 - W17



Item #
8573



## Engine Timing Tool Set for Volvo 4-, 5-, 6-Cyl. Engines -06

- for alignment of the cam and crankshafts
- also for correct installation of the camshafts over the cam cover
- suitable for 4-, 5- and 6-cyl. twin cam engines (not 3.2l) until 2006 on Volvo models: 700, 800, 850, 900, 960, C70, S40, S60, S70, S80, S90, V70 -2000, V70XC, XC70, V90, XC90
- incl. following tools:
  - 2-piece camshaft cover tool, to be used as OEM 9995454
  - crankshaft locking tool, to be used as OEM 9995452
  - camshaft setting tool, to be used as OEM 9995451
  - holder, to be used as OEM 9995453
  - 2x 110 mm and 2x 85 mm screws



Item #
8562



## 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.
- incl. application chart



Item #
68310



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

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



Item #
68300



Engine

## Tire Levers

- special steel, chrome plated, hardened

PRO

Item #	Description
1530	Tire Lever, Length 250 mm
1531	Tire Lever, Length 400 mm
1532	Tire Lever, Length 500 mm
1533	Tire Lever, Length 600 mm
1534	Tire Lever, Length 750 mm



## Tire Lever, 380 mm

- chrome plated, hardened

Item #
1540



## Tire Lever with Plastic Protection Cover

- for damage free assembly of tires on aluminum rims  
 - exchangeable plastic pad (thickness 5.5 mm) is attached to steel lever with screws

PRO+

Item #	Description
1527	Tire Lever with Plastic Protection Cover, 380 mm
1527-1	Spare Plastic Protection Cover for Item # 1527
63150	Tire Lever with Plastic Protection Cover, 500 mm
63151	Spare Plastic Protection Cover for Item # 63150



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

- chrome plated  
 - hardened

In tetron wallet

Item #
1548



## Tire Lever, 650 mm Length, for Trucks

- dimensions: 650 x 28 x 9 mm  
 - for truck tire assembly

Item #
4802



## Tire Lever with Aluminium Handle, 390 mm

- chrome plated
- rounded edges
- ideal size for comfortable working
- aluminium handle for extra convenience - no fatigue limit !



## Tire Lever, for Motorbikes, 370 mm

- chrome plated
- plastic handle



## Pry Bar, 780 mm

- satin chrome plated
- with acid resistant handle



## 4-piece Pry Bar Set

- hardened black finish carbon steel
- plastic handles with guarding caps
- sizes: 200x12, 300x18, 450x20, 600x20 mm



## 4-piece Mechanic's Pry Bar Set

- sizes: 200x10 - 300x15 - 450x18 - 600x18 mm
- slip guard handles with steel head



Pry Bars

## 3-piece Pry Bar Set with Swivel Joint Head

- pry bars in length 250-300-385 mm
- black finish
- for disassembling lock-rings, bearings, loosening gaskets, body repair, etc.
- swivel joint head lockable in 15 different positions
- perfect for prying in hard to reach areas due to flat finish
- swivel joint head lockable in different positions



Item #
9140



## Lever with Swivel Head, 450-760 mm

- heavy duty finish
- adjustable from 450 to 760 mm
- head adjustable in 10 positions
- ideal for work when you need flexibility



Item #
9141



## 4-piece Pry Bar Set

- 4 different pry bars for all kinds of applications on trucks and other heavy vehicles
- 2 bars 600 mm long and 2 bars 900 mm long
- straight and 30-75-90° bent
- rubber coated soft-grip



Item #
9133



## Wrecking Bars, extra strong

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



Item #	Description
52106	Wrecking Bar, 600x30x17 mm
52109	Wrecking Bar, 910x30x17 mm
52104	Wrecking Bar, 400x22x12 mm



## Ripping Bar / Nail Puller, flat

- with 2 nail slots and flat claws
- length: 380 mm

Item #
52138



## Adjustable Wrecking Bar, 60-86 cm

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

Item #
52120



## Control Arm Lever

- facilitates the removal of control arm ball joints from wheel bearing housing
- also very helpful in the assembly of control arms
- support in 3 positions adjustable
- max. length: 1225 mm
- neoprene handle

Item #
3521



## Bowden Cable Oiler

- for easy and accurate maintenance of all cables
- good lubrication of bowden cables increases cable life

Item #
8391



## Motorcycle Chain Cleaning Brush, 265 mm

- extends the life of the chain
- U-shaped brush allows easy drain cleaning



Item #
8362



## Clutch Cage Holder

- application:  
graps into the clutch driver grooves and arrests it so that the central nut can be loosened securely
- bolt diameter: 5 and 9 mm



Item #
1713



## Holding Wrench for Flywheels & Clutch Baskets

- simplifies removal of flywheels
- fits most flywheels and clutch baskets of scooters and other 2-stroke engines
- suitable for diameters from 93 to 130 mm



Item #
8457



## Flywheel Puller for Yamaha Motorcycle, Kawasaki Jet Ski

- suitable for Yamaha WR 250F/WR400F and Kawasaki Jet Ski 300/440/550
- facilitates damage-free removal of the fly wheel
- 3x8 mm screws on a 55 mm round base are connected to the flywheel
- 14 mm pressure spindle with sliding T-handle
- incl. 3 M8 x 40 mm screws



Item #
8248



## Flywheel Puller for KTM, Suzuki, Yamaha

- allows a non-destructive removal of flywheels with an M33 x 1.5 external thread
- suitable for the following motorcycles:  
KTM: 625 SMC (2006), 640 LC4 ADVENTURE (2004-2007), 640 LC4E (2001), 690 RFR (2008)  
SUZUKI: GSXR 1000 (2001-2008), GSXR 600 (2001-2009), GSX R750 (2000-2008)  
YAMAHA: WR 450F (2004-2008), YFZ 450 (2004-2009)



Item #
8465



## Flywheel Puller for Suzuki Motorcycles

- fits on following Suzuki models:
  - GV 1400G (1986-1988), LS 650 (1987-2009)
  - LTA 400 (2002-2004), LTA 400 (2006-2008)
  - LTA 400F (2002-2008), LTA 450X (2007-2009)
  - LTA 500F (2000-2007), LTA 700X (2005-2007)
  - LTA 750X (2008-2009), LTF 400 (2002-2004)
  - LTF 400 (2006-2008), LTF 400F (2002-2008)
  - LTF 500F (1998-2007), VL 1500LC (1998-2004)
  - VL 1500LC C90 (2005-2009)
  - VS 1400GLP (1987-2004)
  - VS 1400GLP (S83) (2005-2009)
  - VS 700 GLP (1986-1987)
  - VS 750 GLP (1988-1991), VS 800GL (1992-1995)
  - VX 800 (1990-1993), VZR 1800 (2006-2007)
- material: phosphate coated carbon steel



Item #
8466



## Rotor Pullers

- suitable for generator and ignition system
- M27x 1.00: Honda, Suzuki, Yamaha
- M26x 1.50: Bosch



Item #	Description
7746	Rotor Puller, M27x1.00
7747	Rotor Puller, M26x1.50, M22x1.50

## 10-piece Rotor Puller Set

- fits Yamaha, Honda, Suzuki, Bosch, Kawasaki, Ducati and many others
- sizes contained:
 

M 14 x 1.5	M 25 x 1.5	M 22 x 1.5
M 16 x 1.5	M 22 x 1.0	M 27 x 1.25
M 18 x 1.5	M 28 x 1.5	M 20 x 1.0
M 26 x 1.0	M 19 x 1.0	M 27 x 1.0
M 28 x 1.0	M 26 x 1.5	M 24 x 1.0



Item #
7748



## Steering Head Bearing Remover for Motorcycles

- allows a dismantling of steering head bearings
- length 305 mm
- material: chrome-molybdenum



Item #	Description
8510	Steering Head Bearing Remover, 35 - 55 mm
8509	Steering Head Bearing Remover, 26 - 35 mm

## Steering Head Bearing Assembly Tool Kit for Motorcycles

- allows a careful assembly of upper and lower steering head bearings
- suitable for Kawasaki, Honda and Harley Davidson
- Includes:
  - 1 press nut with crank
  - 1 mounting screw
  - 1 nylon washer
  - 2 step rings for Kawasaki
  - 2 step rings for Honda
  - 1 step ring for Harley Davidson
  - 1 washer plate
  - 1 pressure washer
- carbon steel
- satin chrome finish



Item #
8461



## 9-piece Motorcycle Fork Seal Driver Set

- contains 9 half shells in following sizes: 35/36 - 39 - 41 - 43 - 45 - 46/47 - 48 - 49/50 - 54 mm
- for use on conventional and upside-down forks
- allows quick and convenient replacement of fork seals without disassembling the conventional fork legs
- zinc plated
- knurled ring for better grip



Item #
8474



## 10-piece Spoke Wrench Set for Motorcycles

- for the replacement of spokes, or tightening of wheel spokes
- size: 5.2 - 5.4 - 5.6 - 5.8 - 6.0 - 6.2 - 6.4 - 6.6 - 6.8 - 7.0 mm



Item #
8360



## Wire Spoke Wrench

- forged
- chrome plated
- suitable for 6,3 - 5,6 - 5,0 - 4,5 mm wire spokes
- for tightening wire spokes on a bicycle



Item #
7180



## Spoke Torque Wrench, interchangeable heads

6.3  $\frac{1}{4}$

- rim life is extended by tightening all the spokes with the same torque value
- 10 interchangeable heads with 12 x 9 mm square drive, suitable for the most popular spoke sizes
  - 5.1 - 5.8 - 6.1 - 6.3 - 6.4 - 6.5 - 6.7 - 6.9 mm
  - ratchet head: 6.3 (1/4), 24-tooth, for sockets
- torque range: 3 - 19 Nm
- length: 195 mm



Item #
8511



## All Purpose Chain Separating Tool

- for pressing rivets out of the chains



Item #
1743



## Separating and Riveting Tool for Motorbike Chains

- for separating and riveting chains
- suitable for chains 35 up 630
- also suitable for engine timing chain
- 3 separating tips included: 2.2-2.9-3.8 mm



Item #	Description
1749	Separating and Riveting Tool for Motorbike Chains
1749-1	Separating Tip 2,2 mm from BGS 1749
1749-2	Separating Tip 2,9 mm from BGS 1749
1749-3	Separating Tip 3,8 mm from BGS 1749
1749-4	Rivet Bolt for BGS 1749

## Motocycle Repair Tool Set

- includes important tools for the repair of motorcycles
- flywheel pullers:
  - M28 x 1,0 (right-, inner thread)
  - M27 x 1,0 (left-, outside thread)
  - M24 x 1,0 (right-, inner thread)
  - M16 x 1,5 (right-, inner thread)
- crankshaft tool
- chain extractor tool
- universal holder tool
- clutch nut tool Ø 20 und 24 mm
- hook wrench
- 100 mm int. hex. socket 8 and 10 mm
- adapter 12,5 (1/2) to 6,3 (1/4) drive
- screwdriver bits in following sizes:
  - 110 mm plain slot 7 mm and PH2
  - 110 mm plain slot 7 mm and PH3
  - 110 mm int. hex. socket 5 und 6 mm
  - 200 mm int. hex. socket 4 und 5 mm
  - 200 mm PH2
  - 200 mm PH3
- screwdriver handle for Bits
- T-type bit holder
- valve adjusting sockets in 8, 9 and 10 mm
- handy, knurled socket holder, for valve adjusting sockets
- slotted nut socket for gearbox repair jobs



Item #
8326



## Wheel Bearing Tool Set for Harley-Davidson

- ideal tool for the assembly and disassembly of wheel bearings without damaging the wheel
- suitable for wheel bearings with 3/4 "and 1" inner Ø, built 2000-2006 and for 25 mm wheel bearings installed on most models during 2007 - 2008 with and without ABS



Item #
8373



## Spring Compressor Set for Harley Davidson

- two sets in one: suitable for 39 mm and 41 mm front fork springs
- special socket for disassembly and assembly of fork cap
- 195 mm long clamping spindle with a diameter of 18.6 mm



Item #
992



## 2-piece Motorcycle Spring Compressor Kit

- facilitates assembly of springs on the spring strut
- max opening width 100 mm
- 3/8" and 17 hex. drive
- rubber protection on the tensioning claws prevent damage to the spring coating
- made from high grade steel
- housing is made from stainless steel
- suitable for cylindrical springs with a wire diameter up to 11 mm



Item #
991



## Motorcycle Coil Spring Compressor for Central Struts

- 4 adaptors for use on a wide range of coil springs
- adaptor-Ø 60 - 66 - 72 and 75 mm
- with eyelet and clevis adaptor
- is a great time saver
- manufactured from aluminium



Item #
8521



## TDC Dial Indicator for Ignition Adjusting on Motorcycles

- precision gauge for locating the piston TDC
- allows precise ignition timing
- suitable for most cylinder heads
- spark plug thread adapter in 10, 12 and 14 mm
- includes:
  - 1 gauge 10 mm stroke, 1/100mm graduation
  - 1 adapter with gauge clamp, length 3 cm
  - 1 extension M8x1.0, length 3 cm
  - 1 adapter M10x1.0
  - 1 adapter M12x1.25
  - 1 adapter M14x1.25
  - 3 stylus extensions



Item #	Description
8319	TDC Dial Indicator for Ignition Adjusting on Motorcycles
8319-1	Gauge Ø42 mm, for BGS 1938 / 8319 / 8159

## Motorcycle Brake Piston Pliers

- for removing the brake pistons
- suitable for most scooters, quads and motorcycles
- knurled jaws for better grip



Item #
8419



## 14-piece Brake Piston Removal Kit for Motorcycles

- suitable for nearly all brands
- for piston diameter 19 to 30 mm
- allows easy disassembly of brake pistons
- works also on stuck pistons



Item #
8242



## Motorcycle Special Socket, 19-22-24 mm

- three different int. hex. sizes:
  - 19 mm: Yamaha
  - 22 mm: Kawasaki, BMW
  - 24 mm: Suzuki & Honda, BMW K1, K1000
- for assembling / disassembling of the full floating axle
- 19 or 22 mm hex. drive socket (socket not included)



Item #
5059



## Motorcycle Special Socket, 17-19-22-24 mm, 3/8" Drive

10

- suitable for wheel axle
- 4 different internal hexagon sizes: 17-19-22-24 mm
- for Yamaha, Kawasaki, BMW, Suzuki, Honda



Item #
5058



## Internal Hexagon Bit Set for Motorcycles

125  1/2

- is required when working on motorcycle axles and forks
- 1/2" adaptor
- bit sizes: 17, 19, 22 and 24 mm
- material: chrom vanadium



Item #
5060



## Motorcycle Positioning Jack

- allows maneuvering in confined spaces
- for motorcycles with main stand
- non-slip rubber pad
- with brake
- capacity 150 kg



Item #
8423



## Central Lift for Dirt Bikes / Cross Motorcycles

- facilitates cleaning of the wheels and is helpful for maintenance and repairs of the chain drive and on the wheel suspension
- min. height: 270 mm
- max. height: 390 mm
- lifting surface: 230 x 285 mm



Item #
8424



## Hydraulic Motorcycle Lifter, 680kg

- suitable for motorcycles with underslung frame
- min. height: 145 mm
- max. height: 420 mm
- lifting height: 275 mm
- dimensions: 865 x 360 x 325 mm



Item #
8389



## Motorcycle Lifter for Single-Sided Swingarms on Rear Axles

- suitable for single-sided swingarms on rear axles
- ball bearing holding bolt for rear axles
- very useful when the wheel must be turned e.g. rims when cleaning the rims, lubricating the chain, etc.
- allows removal of the rear wheel on motorcycle without center stand
- 24.8 mm lifting pin



Item #
9244



## Motorcycle Combination Lifter for Front and Rear Axles

- very useful when the wheel must be turned e.g. rims when cleaning the rims, lubricating the chain, etc.
- allows removal of the rear or front wheel
- particularly suitable for motorcycles without main stand
- the frontwheel can be raised through the steering head bearing tube



Item #
9243



## Motorcycle Wheel Balancer

- an economic alternative to an expensive balancing machine
- allows static balancing of motorcycle tires up to 740 mm diameter and 320 mm width
- painted steel frame with a carbon steel made balancing shaft
- includes 2 centering cones for centering the wheel on the balancing shaft
- precision ball bearings provide a low-friction pendulum motion for precise balancing of the wheel

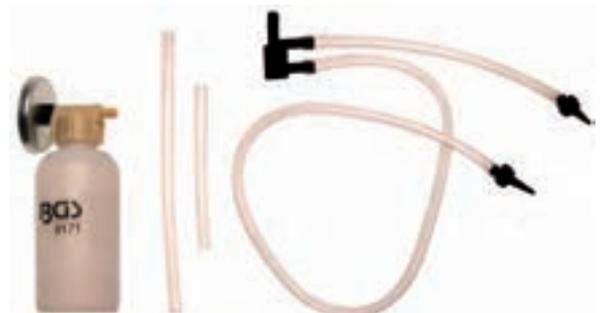


Item #
8459



## Brake Bleeding Bottle

- allows a bleeding of brake and clutch systems on motorcycles
- magnet for attachment to the frame
- includes 3 adapters



Item #
8171



## Brake Bleeder Tool

- one-man operation
- can also be used on clutch systems
- working air pressure 6-12 bar
- includes a hose for extracting liquids
- length x width x height: 225 mm x 135 mm x 192 mm



Item #
8066



## Nut Splitters

- forged carbon steel, separates bolts and corroded/stuck nuts
- without damaging the thread



Item #	Description
1810	Nut Splitter, up to 24 mm
1811	Nut Splitter, up to 16 mm



## 2-piece Nut Splitter Set, 12-16 & 16-22 mm

- consists of Item 1810 + 1811



Item #
1812



## Nut Splitter, 3-24 mm

- forged
- opened jaw, for nut sizes 3 - 24mm
- 360° spinning blade

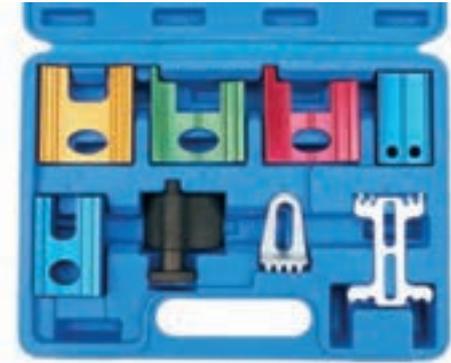


Item #
1814



## 8-piece Timing Locking Tool Kit, fitting for most Models

- all purpose set fits nearly all models:
  - camshafts Opel Calibra, Omega, Sintra, Vectra -1,8 / 2,0
  - camshafts Opel Calibra, Omega, Sintra, Vectra -1,4 / 1,6
  - right camshaft Saab 900,900 -2,5 / 3,0 , Opel Calibra, Sintra, Vectra -2,5/3,0
  - left camshaft: Saab 900,900 -2,5 / 3,0 , Opel Calibra, Sintra, Vectra -2,5/3,0
  - camshaft locking tool for VW, Audi, Skoda, Seat und Ford
  - flywheel holding tool for Citroen, Fiat und Peugeot
  - flywheel holding tool for Isuzu 1,5 / 1,7 Diesel, Opel: 1,6 / 1,7 Diesel, Opel 1,2 / 1,4 / 1,6 / 1,8 / 2,0 OHC



Item #	PRO+
1775	

## Camshaft Guide, 170 mm, VW

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

Item #	PRO+
8122	



## Timing Tool Set for Audi + VW V6 / V8 TDI

- for locking of crankshaft and camshaft when working on the engine timing, e.g. changing of the tooth belt, disassembly of the cylinder heads etc.
- suitable for:
  - VW Passat 2.5 V6 TDI AFB, AKN 98- und Audi A4, A6, A8 / 2.5 V6 TDI
  - AFB, AKN, AKE, AYM, BAU, BCZ, BDG, BDH, BFC 97-06
- the locking pin can be used as OEM 3242, positions the crankshaft in TDC (top dead center) position
- locking plates can be used as OEM 3458, are for locking the camshaft in assembly position
- crankshaft locking pin also individually available at BGS 8155-6

Item #	PRO+
8275	



## Camshaft Locking Tool for Opel Astra, Vectra

- for OPEL
  - Astra G 1.7 TD,
  - Astra-G 2.0 16v,
  - Vectra 1.8/2.0 16v (1995 and newer)

Item #	PRO+
1769	



## Camshaft Locking Tool for Opel Astra, Vectra, Zafira

- suitable for Opel 1.4, 1.4 Turbo, 1.6, 1.6 T, 1.8 16V  
Opel Astra F from 1992 till 1997,  
Astra G from 1998 till 2003,  
Astra H from 2004 till 2009,  
Astra J from 2010 till today,  
Corsa B from 1993 till 2000,  
Corsa C from 2001 till 2006,  
Corsa C Combo from 2002 till today,  
Corsa D from 2007 till today,  
Meriva from 2003 till 2010,  
Signum from 2003 till 2008,  
Tigra A from 1995 till 2003,  
Tigra B Roadster from 2004 till 2009,  
Vectra B from 1996 till 2002,  
Vectra C from 2003 till 2008,  
Zafira A from 1999 till 2004,  
Zafira B from 2005 till 2010
- engine codes:  
A14NET (LUJ), A14XER (LDD), X14NZ, X14SZ,  
X14XE, X16SZR, X16XE, X16XEL, Z14XE, Z14XEP,  
Z 16LET, Z16XE, Z16XER, Z18XE, Z18XER



Item #
1770



## Camshaft Locking Tool, fits most Rover + MG Models

- 33,5 x 44,5 x 15 mm



Item #
1764



## Flywheel Locking Tool

- for Citroen-Fiat-Peugeot



Item #
1771



## Camshaft Locking Tool

- needed for tooth belt replacement and other engine timing jobs
- suitable for all Diesel and gasoline DOHC engines
- fixation by locking the camshafts against each other
- pins made of hardened steel for long tool life
- versatile applications because of 2 different arm lengths
- special knob on center arm can be turned into a place-saving position

Item #
8243



## VAG 5 and 10 Cylinder Engine Locking Tool

- suitable for VW Phaeton and Touareg models as of 2003, Transporter as of 2004 with 5 and 10 cylinder Diesel engines
- use like VW part Nr. T10193 / T10194
- for adjusting the camshaft when checking and repairing the engine
- no twisting of camshafts

Item #
8279



## Universal Twin Cam Lock

- can be used for toothed belt distances 13 - 180 mm
- for Diesel and Gasoline engines
- locks the cam shaft on the side of the fuel injection pump wheel, so that the toothed belt wheels can be correctly positioned towards the crankshaft

Item #
1799



## Camshaft Setting Tool Audi V8 4.2

- to adjust the camshafts, to be used as OEM T40047
- ensures correct setting of the Hall sensor wheel, an incorrect setting may cause bad idle and lazy response lead
- suitable for cars with 4.2 liter V8 engines:  
AUDI A6 (05-06), A8 (04-06), Quattro (03-05), S4 (04-09)  
VW Phaeton (04-06)  
with engine codes:  
BNK - BFM - BGK - BAS - BHF - BGH

Item #
8531



## Camshaft Locking Tool for Audi 8 Cylinder Engines

- suitable for Audi A4 2001> and A6 1998> with 8 cylinder engines
- for checking and adjusting the engine timing
- to be used as OEM T40046

Item #
8532



## Camshaft Locking Bar, adjustable 12 & 30 Valve

- wide application range because of adjustable camshaft locking tool, to be used as OEM 3391 or OEM 3243
- crankshaft locking bolt to be used as OEM 3242
- is needed for changing of the tooth belt on Audi and VW with following engines:  
AUDI A4 2.4 2.8 1997-2002, A6 2.4 1997-2002, A6 2.8 1997-2002, A8 2.8 1997-2002, S4 2.7 Turbo 1997-2001 resp.  
Volkswagen with ACK, ALG, APR, AQD engines such as Passat 2.4 1996-2002, Passat 2.8 30v 1996-2001
- 2 Valve V6 engines on Audi 80, 90, A4, A6 1994-97 ABC, AFC
- avoids distortion of the camshaft during tooth belt assembly
- allows easy and precise assembly of the tooth belt

Item #
8522



## Camshaft Locking Tool Audi + VW

- is needed for changing of the tooth belt on Audi and VW with following engines:  
AUDI A4 2.4 2.8 1997-2002, A6 2.4 1997-2002, A6 2.8 1997-2002, A8 2.8 1997-2002, S4 2.7 Turbo 1997-2001 resp.  
Volkswagen with ACK, ALG, APR, AQD engines such as Passat 2.4 1996-2002, Passat 2.8 30v 1996-2001
  - avoids distortion of the camshaft during tooth belt assembly
  - allows easy and precise assembly of the tooth belt
- appropriate crankshaft locking tool available under BGS 8155-6

Item #
8232



## Camshaft Locking Tool for Audi + VW

- is needed for changing of the tooth belt on Audi and VW with following engines:  
2 Valve V6 Engine Audi 80, 90, A4, A6 1994-97 ABC, AFC Motor
- avoids distortion of the camshaft during tooth belt assembly
- allows easy and precise assembly of the tooth belt

Item #
8233



## Camshaft Locking Tool for Audi + VW

- is needed for changing of the tooth belt on Audi and VW with following engines:  
V8 3,3L bis 4,2L 5 valve engines in Audi A6, A8 with engine codes AKB, AUX, AYS, ARS, ART, AWN BBD, BCY, BFM 1998-2003 and VW Touareg and Phaeton
- avoids distortion of the camshaft during tooth belt assembly
- allows easy and precise assembly of the tooth belt



Item #
8234



## Oil Drain Adapter Hose for Oil Filter Cartridges

- suitable for VAG 1.8 and 2.0L gasoline engines with engine codes AXW - BLX - BLR - BLY - BVX - BVY - BVZ  
Audi A3 / A4 / A6 / DD  
VW Golf V - Passat - Touran - New Beetle - EOS - Jetta III - Seat Altea - Leon - Octavia - Toledo
- opens a valve when screwing in the oil filter housing
- allows a controlled and clean oil discharge from the oil filter housing



Item #
9000



## Oil Drain Adapter Hose for Oil Filter Cartridges

- suitable for Toyota and Lexus
- opens a valve when screwing in the oil filter housing
- allows a controlled and clean oil discharge from the oil filter housing



Item #
1401



## Gear Oil Filling Hose for VAG

- is needed when replacing the DSG engine oil
- with adaptor for 1 liter VAG gear oil (G052182A2)
- built-in valve prevents oil spillage



Item #
1402



## Decanter Pump

- 500 ccm capacity
- can also be used for gearbox and engine oil
- incl. 2 transparent hoses for suction/drain
- overall length (without hose): 330 mm
- diameter 58 mm
- inner diameter of hose: 9.5 mm



Item #
3064



## Oil Barrel Pump, Lever Type

- for pumping liquids from barrels
- suitable for oil, antifreeze, etc. (not for fuel)
- for barrels up to 200 liters
- pumps about 300 ml per stroke
- with 2 "NPT thread



Item #
8343



## Oil Barrel Pump

- with standard barrel adapter
- variable depth of immersion
- suitable for oil and other non-corrosive liquids



Item #
8345



## Pressure Pump for Oil Barrels

- for easy extraction of engine oil from barrels
- suitable for up to 200 l barrels
- simple and easy to operate
- for all non-corrosive liquids



Item #
9210



## 12 Volt Oil Pump

- max. flow rate for engine oil approx. 0,2l /min
- max. flow rate for Diesel or heating oil app. 1,2l /min
- 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



## Air Brake Bleeding and Oil Extraction Unit

- suitable for daily workshops use
- for a clean oil change
- usable for engine, transmission, rear axle oil and other non-corrosive liquids
- suction hose 9.8 - 8.0 - 6.7 - 4.5 mm Ø for extraction by suction through the dipstick tube
- 7.5 l container with base ensures stability to accommodate large amounts of oil
- suitable for oil extraction on all smart models but also for all other vehicles for which an oil change is to be performed without using a car lift
- with a special silicone brake breather hose with a valve for one-hand operation
- easy brake bleeding on brake systems of all types of vehicles
- the built-in hand vacuum pump allows brake bleeding even without compressed air

Item #
3155



## Multi Purpose Pump

- suitable for oil, brake fluid and cleaning fluid
- overall size 315 mm, capacity 1000 ml

Item #
8356



## Oiler with Flexible Nozzle

- flexible nozzle
- full metal construction
- content approx 0.3 L

Item #
8431



## 70 Liter Waste Oil Drain Receiver

- designed for containing waste oils, such as on engines, gearboxes, rear axles, etc.
- with compressed air connection, makes it easier to empty the container without oil spillage
- with 4 castors, 2 swivel wheels for easy maneuvering
- includes emptying hose



Item #
8544

PRO

## 70 Liter Suction Evac Oil Drainer, Air support

- designed for extracting waste oils, such as on engines, gearboxes, rear axles, etc.
- with compressed air connection, makes it easier to empty the container without oil spillage
- large glass container to check the oil level
- with 4 castors, 2 swivel wheels for easy maneuvering
- includes:
  - flexible suction pipes: Ø 5 - 6 - 7 and 8 mm
  - metal sucking pipes: Ø 5 and 6 mm
  - emptying hose



Item #
8545

PRO

## Fluid Flasks

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

PRO+

Item #	Description
8568	Fluid Flask, 1 L
9983	Fluid Flask, 2 L
9984	Fluid Flask, 4 L
8569	Fluid Flask, 5 L



## Pouring Spout for Oil Cans BGS 9983 and 9984

- flexible
- facilitates filling

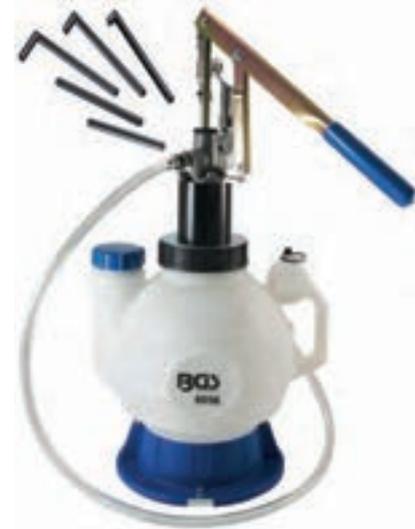
Item #
9988



## Oil Filler Tool, 7 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

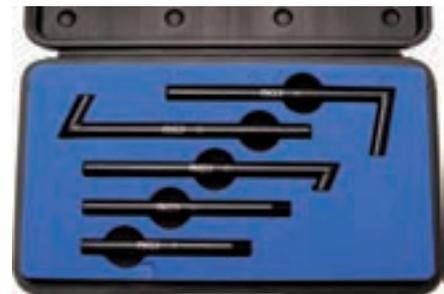
Item #
8056



## 5-pc. Adapter Set for BGS 8056

- short adapter for VAG models to be used as VAG 1924/1
- long adapter for VAG models
- straight adapter for VAG Models to be used as VAG 6262/2
- adapter for Ford models
- adapter for BMW models

Item #
8056-1



## Adaptor Set for Oil Filler Tool BGS 8056

- suitable for:  
Mercedes 722.9  
VW / Audi DSG  
VW / Audi CVT

Item #
9990



## Oil Filler Tool, 7 Liters

- for filling gearboxes and differentials with oil
- new version with second hose for backflow of excessive oil
- with 8-pc adaptor set with different angles and thread types
- ideal for filling Mercedes 722.9, VW / Audi DSG and CVT transmissions
- hose length 160 cm
- can be used up to SAE 140



PRO+

Item #	Description
9991	Oil Filler Tool, 7 Liters
9991-2	Replacement Container for BGS 9991

## Manual Oil Suction Pump, Capacity 200 ccm

- for suction of small amounts of gear and clutch oil



## Multi Purpose Funnel, 160 mm

- suitable for oil, anti freeze, diesel etc.
- length: 400mm
- tube size: 1/2"
- closes by sliding a ring and by closing a plug at the end of the hose



## Oil Funnel, 850 ml Reservoir

- square type



## Flexible Funnel

- can be formed into various shapes
- fits even in smallest spaces
- suitable for all oils, coolants, fuel, hydraulic fluids etc
- pad size: 170 x 370 mm
- max. input opening: 150 mm
- max. outflow opening: 50 mm

Item #
8446



## Oil Tub / Drip Pan, 14 Liter with Nozzle

- manufactured from oil and fuel resistant
- made of HDPE plastic
- impact resistant
- diameter: 450 mm
- height: 150 mm
- weight 1075 g
- impact resistant

Item #
9980



## Oil Tub / Drip Pan, 5,5 Liter with Nozzle

- manufactured from oil and fuel resistant
- made of HDPE plastic
- impact resistant
- diameter: 410 mm
- height: 95 mm
- weight 650 g
- impact resistant

Item #
9981



## Oil Changing Can, with Nozzle, 8 Liter

- closed construction, special flat type (only 12 cm high)
- ideal for small working space
- special shaped oil basin makes sure no oil will get lost
- with 3 carrying-handles and 3 plastic-screws
- for oil, petrol, chemicals and antifreeze

Item #
9982



## Mobile Waste Oil Container with Spout, 40 liters

- for collection of fluids, such as e.g. engine, transmission, rear axle oils and coolant fluids
- suitable for cars and motorcycles
- easy positioning by two wheels, Ø 100 mm
- closeable opening
- equipped with handles on both sides
- dimension: 900 x 500 x 190 mm

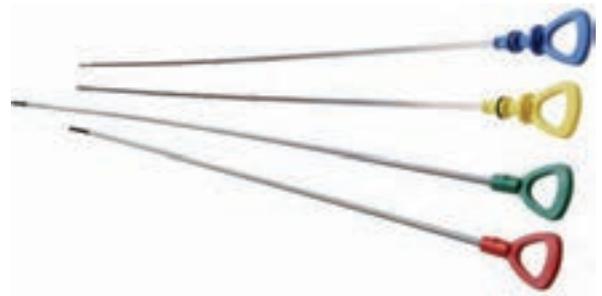


Item #	PRO+
8554	

## 4-piece Oil Dipstick Gauge Set for Mercedes Benz

- 4 dipsticks for measuring the oil of the engine and the transmission
- absolutely necessary after changing the oil, because vehicles are delivered without oil gauges
- suitable for the following models:

A (length 1220 mm): for transmission oil, transmission type 722.6  
 B (length 920 mm): for transmission oil, transmission type 722.7, 716.5  
 C (length 930 mm): for motor oil, motor type 103.943/984/985, 104, 111, 119, 120, 137, 603.913/963/97, 604, 605, 606, 611, 612, 613, 628, 612.965  
 D (length 930 mm): for motor oil, motor type M112, 113, 646, 647, 648



Item #	PRO+	
1010		

## Dipstick for Audi and VW with Oil Level Indicator

- suitable for Audi and VW models with oil level indicator in the display
- an unnoticed defect of the display without manual oil level check could cause engine failure
- useful tool after exchange of the oil sensor or to calibrate the driver's display
- fits the following engines:  
 3.0 and 2.7 L TDI - 2.0 TDI - 1.8 and 2.0 TFSI - 3.0 and 3.2 TFSI
- setting table for measuring stick included
- to be used as OEM T40178



Item #	PRO+	
1052		

## Oil Dipstick Audi A6

- suitable for Audi A6/100 models (without dipstick)

Item #	PRO+
8517	



## Internal Hexagon Key for Oil Drain and Filler Plugs, 12 mm

- suitable for Alfa Romeo, Fiat and Lancia
- for oil filter, oil filler and oil drain plugs on the transmission, differential
- angled key 40° and 90°
- length: 283 mm



Item #
1005



## Special Oil Drain Plug Wrench, 8x10 mm

- forged
- for PEUGEOT



Item #
1006



## Oil Pan Special Key 8-in-1

- for daily workshop use
- 4 square sockets: 8 - 10 mm and 3/8" - 1/2"
- 4 hex. sockets: 10 - 12 - 14 - 17 mm
- overall length: 270 mm



Item #
1012



## 6-piece Drain Plug Key Set, 8-14 mm

125 1/2

- satin chrome finish
- sizes: 8-10-12-14 mm, 1/2" & 3/8" square head
- on socket rail



Item #
1016



## Drain Plug Key Set, for all Car Types

- for all sorts of cars
- used in combination with spark plug socket or wrench 14 mm or 21 mm
- 6-piece in metal case
- sizes 5/16 x 3/8" (hex.) - 8 mm x 3/8" (sq. head)
- 8 mm x 10 mm (hex.) - 11 mm (sq. head) x 12 mm (hex.)
- 13 mm (sq. head) x 14 mm (hex.) - 1/2" x 17 mm (hex.)



Item #
1015



## 12-piece Universal Drain Plug Key Set

10  $\frac{3}{8}$ "

- 7 hex. sockets:  
8-9-10-12-14-17 mm + 3/8"
- 4 sq. head sockets:  
8-11-13 mm + 3/8"
- 1 sliding t-bar



Item #
1017



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

10  $\frac{3}{8}$ "

- 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



## Oil Drain Plug Repair Kit

- Each set contains:
- 1 screw tap HSS-G
  - 6 spare screws
  - 6 gasket rings



Item #	Description
156	Oil Drain Plug Repair Kit, M13x1.5
151	Oil Drain Plug Repair Kit, M14x1.25
157	Oil Drain Plug Repair Kit, M15x1.5
158	Oil Drain Plug Repair Kit, M17x1.5
159	Oil Drain Plug Repair Kit, M20x1.5



## Oil Drain Repair Kit, 64-pcs.

- 4 piece chrome molybdenum taps: M13 - 15 - 17 - 20
- 5 screws each: M13.5, M15.5, M17.5, M20
- 10 aluminum washers each: 13 - 15 - 17 - 20 mm

Item #
126



## 534-piece Oil Drain Plug Screws and Copper O-Ring Assortment

- Oil Drain Plug Screws:  
5x10 mm, 5x12 mm, 5x13 mm, 5x14 mm,  
5x15 mm, 3x16 mm, 3x18 mm, 3x20 mm
- Copper O-Rings:  
50x6 mm, 50x8 mm, 50x10 mm, 50x12 mm, 50x13 mm,  
50x14 mm, 50x15 mm, 50x16 mm, 50x18 mm, 50x20 mm

in plastic storage case

Item #
8118



## 534-pcs. Oil Drain Plug Screws and Aluminum O-Ring Assortment

- Oil Drain Plug Screws:  
5x M10, 5x M12, 5x M13, 5x M14, 5x M15,  
3x M16, 3x M18, 3x M20
- Aluminum O-Rings:  
50x6 mm, 50x8 mm, 50x10 mm, 50x12 mm, 50x13 mm,  
50x14 mm, 50x15 mm, 50x16 mm, 50x18 mm, 50x20 mm

in plastic storage case

Item #
8119



## Oil Filter Wrench, Spring Steel Strip, Aluminium Diecast

- for all types of oil filters



Item #	Description
1028	Oil Filter Wrench, Spring Steel Strip, Aluminium Diecast, up to 105 mm
1029	Spare Spring Strip for #1028
1027	Oil Filter Wrench, Spring Steel Strip, Aluminium Diecast, up to 155 mm
1025	Spare Spring Strip for #1027



## Oilfilter Strap Wrench, 20-190 mm

- continuously adjustable
- strap width ca. 26 mm
- length of tool body ca. 255 mm
- extra heavy duty finish, tool weighs ca. 875 g
- perfect for working on oil filters etc.
- strap material similar to a V-belt

Item #
1008



## 7-piece Low Profile Oil Filter Wrench Set

10 3/8

- low profile design perfect for use on cartridge style filters
- contains following sizes:
  - 24 mm (misc. BMW)
  - 27 mm (Mercedes A-class)
  - 32 mm (Opel Astra G, Corsa B, Zafira)
  - 36 mm (misc. BMW, Ford Mondeo 2.0, Transit 2.0, D, Opel Vectra B, Zafira, misc. Mercedes)
  - 38 mm Opel Vectra 2.0D
  - 29 mm (misc. models)
  - 30 mm (misc. models)
- drive: 3/8"

Item #
8377



## 9-piece End Cap Oil Filter Wrench Set

- black finish
- special sizes for utility vehicles:
  - 36 mm x 6 edge, 74 mm x 14 edge
  - 107 mm x 15 edge, 108 mm x 15 edge, 108 mm x 18 edge
  - 135 mm x 18 edge
- 160 mm oil filter wrench included
- all sizes also available separate



Item #	Description
1019	9-piece End Cap Oil Filter Wrench Set
1019-36	End Cap Oil Filter Wrench, 36 mm x 6-edge
1019-74	End Cap Oil Filter Wrench, 74 mm x 14-edge
1019-106	End Cap Oil Filter Wrench, 106 mm x 15-edge
1019-107	End Cap Oil Filter Wrench, 107 mm x 15-edge
1019-108	End Cap Oil Filter Wrench, 108 mm x 15-edge
1019-108-18	End Cap Oil Filter Wrench, 108 mm x 18-edge
1019-135	End Cap Oil Filter Wrench, 135 mm x 18-edge
1019-1	Oil Filter Band Wrench, 160 mm



Oil Filter Strap Wrenches / Oil Filter Cap Wrenches

## 30-piece End Cap Oil Filter Wrench Set

10  $\frac{3}{8}$

- black finish caps
- three leg oil filter wrench
- adaptor 10 (3/8) x 12,5 (1/2)

PRO +

Item #  
1039

CV



### Set Contents

Item #	Size	Steps	Grooves	Planes	Example Applications
1039-66-6	66	1	6		Fiat Punto 1.2, Renault Clio 1.2, Rapid, Twingo
1047	65	1		14	Daihatsu, Toyota, Nissan, Fiat
1039-65-67	65-67	1		14	Daihatsu, Toyota, Nissan, Fiat
1039-68-14	68	1		14	Mazda, Ford, Subaru
1039-73-14	73	1		14	Toyota, Lexus
1039-74-15	74	1		15	Audi, Rover, Chrysler
1039-74-76	74-76	2		15	Ford, Opel, VW, Audi, Mercedes
1039-75-77	75-77	2		15	VW, Audi, Isuzu, Mercedes
1039-76-12	76	1		12	Fiat, Mercedes, Renault
1039-76-14	76	1		14	VW, Porsche, Mercedes-benz, BMW, Audi, Opel
1039-76-30	76	1	30		Ford
1039-76-8	76	1	8		Fiat, Lancia
1039-78-15	78	1		15	Nissan, Ford, Toyota
1039-80-15	80	1		15	Nissan, Honda, Opel, Mazda
1039-80-82	80-82	2		15	Subaru, Toyota, Honda, Nissan
1039-86-16	86	1		16	Volvo
1039-86-18	86	1		18	VW Golf, Audi A6 TDI, Peugeot, Citroen
1039-90-15	90	1		15	Honda, Mitsubishi, Isuzu
1039-92-10	92	1		10	Fiat
1039-93-15	93	1		15	Mazda, Volvo, Mitsubishi, Nissan, Honda
1039-93-36	93	1	36		Ford
1039-93-45	93	1	45		VW, Audi TDi
1039-95-15	95	1	15		Toyota, Alfa, Ford
1039-96-18	96	1	18		Audi A4, A6 TDI, VW Passat TDI, Renault Laguna
1039-100-15	100	1		15	Isuzu, Mitsubishi
1039-106-15	106	1		15	Fiat Ducato
1039-108-15	108	1		15	Volvo
1039-108-18	108	1	18		Renault Espace, Laguna, Safrane, Traffic
1039-ADAPT	Adaptor 12,5 (1/2) x 10 (3/8)				
1039-SPINNE	Oil filter wrench				

## End Cap Oil Filter Wrenches, Black Finish

10  3/8

- 1036: for Toyota Diesel
- 1047: for Daihatsu, Toyota, Nissan, Fiat
- 1047: for Daihatsu, Toyota, Nissan, Fiat

PRO+

Item #	Description
1036	End Cap Oil Filter Wrench, black Finish, 99 mm x P15
1046	End Cap Oil Filter Wrench, black Finish, 76 mm x P14
1047	End Cap Oil Filter Wrench, black Finish, 65 mm x P14
1007	Oil Filter Cup Wrench MB, 84 mm x 14pt



## End Cap Oil Filter Wrenches, Aluminium Diecast

125  1/2

- 1041: for VW, Mercedes, BMW, Audi, Opel
- 1042: for Toyota, Nissan, Fiat, Daihatsu
- 1045: for GM, Chrysler

PRO+

Item #	Description
1041	End Cap Oil Filter Wrench, Aluminium Diecast, 74 mm x P14
1042	End Cap Oil Filter Wrench, Aluminium Diecast, 65 mm x P14
1045	End Cap Oil Filter Wrench, Aluminium Diecast, 75 mm x P15



## Oil Filter Cap Wrench Set, 65 - 75 mm

125  1/2

- includes 4 aluminum oil filter cup wrenches
- 65 mm x 14-kant
- 67 mm x 14-kant
- 74 mm x 14-kant
- 75 mm x 15-kant



Item #
8384



Oil Filter Cap Wrenches

## Oil Filter Cap Wrench 76 mm x 6 Groove

125  1/2

- 1/2" and 24 mm 6-pt drive
- suitable for 76 mm oil filters with 6 grooves, installed in:
  - Audi A3, A4, A6
  - BMW motorcycle
  - Citroen C5, Xantia
  - Fiat Brava, Bravo, Punto, Tipo
  - Ford Fiesta, Escort
  - Mercedes Benz cars and Sprinter
  - Peugeot 106, 206, 306, 406
  - Renault Clio, Kangoo, Megane, Laguna, Rapid
  - Honda Accord, Civic, Prelude, CRX
  - Opel Astra G / F, Corsa B / B, Corsa, Zafira, Frontera
  - Suzuki Grand Vitara 1.9 2009
  - VW Golf III & IV, Polo, Passat, Sharan
  - Seat Alhambra, Toledo, Leon, Cordoba
  - Skoda Octavia
- also suitable for fuel filter on
  - Renault Espace, Laguna, R19
  - Volvo S40, V40 up to 99
- black coated steel



Item #
8539



## Oil Filter Cap Wrench for Hyundai / Kia

10  3/8

- suitable for most Hyundai and KIA engines
- 15-pt.
- aluminum
- 3/8" drive



Item #
997



## Oil Filter Cap Wrench for Toyota

10  3/8

- for most Toyota 1.8 & 2.0l 4 cylinder engines
- installed in Toyota Auris, Corolla, Premio and Prius
- aluminum
- 3/8" drive



Item #
998



## Oil Filter Cap Wrench Set for Renault dCI Engines

- suitable for Renault 1.5 L, 1.9 L, 2.2 L, 2.5 dCI engines
- also suitable for identical engines in Nissan, Opel and Dacia identical
- 27 mm x 12-pt cup also fits for MB A-Class
- 96 mm x 18-pt cup also fits Audi A4, A6 TDI and VW Passat TDI



Item #
1009



## 3-piece End Cap Oil Filter Wrenches

10  3/8

- suitable for following models:
- 27mm 6-pt  
Mercedes, Smart, Cadillac CTS, SI 2.8L, 3.2L & 3.6L SRX, Buick Rendezvous Ultra, Buick LaCrosse CXS, Stum L3000, Saab 9-5
- 32mm 6-pt  
Mercedes, GM Opel/Vauxhall, Astra, Corsa, Zafira.
- 36mm 6-pt  
Vauxhall / Opel, Omega DL 16V, Vectra, Zafira 98, BMW 16V, Ford Mondec 16V Duratorq, Transit 2.5 & 2.0 Dura Torq Diesel, Mercedes 116MB, Vito



Item #
1037



## Universal Filter Wrench

125  1/2

- universal use for many filters
- spring loaded, self contracting



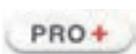
Item #	Description
8395	Universal Filter Wrench, 1/2", 60-80 mm
8396	Universal Filter Wrench, 1/2", 80-98 mm
8390	Universal Filter Wrench, 1/2", 110-140 mm

## Chain Oil Filter Wrench, 1/2", 65-115 mm

125  1/2

- heavy duty finish
- with extremely robust 32 chain links

Item #
1033



## Professional Oil Filter Chain Wrench

125  1/2

- pro version with duplex chain
- chain width 13 mm
- for every day workshop use
- also for stuck oil filters
- easy handling
- suitable for all steel filter cartridges with diameter 60-115 mm

Item #
1002



## Heavy Duty Oil Filter Chain Wrenches

- heavy duty tool with duplex chain
- chain width approx. 22 mm
- handle satin chrome plated
- claw prevents slipping
- 180° swivel handle
- ease to use due to special chain-lock



PRO+

Item #	Description
1003	Heavy Duty Oil Filter Chain Wrench, 60-105 mm
1011	Heavy Duty Oil Filter Chain Wrench, 60-160 mm

## Three Leg Oil Filter Wrench, 3/8", 19 mm hex. Adaptor

10 3/8

- for filters with a diameter between 35-75 mm
- chrome plated



Item #
1031

PRO+

## Three Leg Oil Filter Wrench, 3/8", 19 mm hex. Adaptor

10 3/8

- for filters with a diameter between 70-120 mm



Item #
1030

PRO

## Three Leg Air Filter Wrench, 75-135 mm

125 1/2

- for loosening granulate air dryer cartridges in trucks
- black finish



Item #
1032

PRO+

## Three Leg Oil Filter Wrench, Workshop Quality

125  1/2

- for oil filters and air cleaners
- right and left handed, for tightening and loosening
- for cartridges with an approx. Ø 95 mm - 160 mm
- 60 mm arm length
- extra heavy duty design 1325 g



Item #
1049



## Renault Oilfilter Wrench

- for Renault EF34 oil filters 76 mm 12-point
- stuck oil filters can be easily loosened due to extra long handle
- suitable for the following models:
  - Renault Twingo R5, Rapid sedan with C, Clio, Kangoo petrol-R12 Espace III, Laguna sedan with F, Megan Kangoo with K Gasoline engines, R21 Espace I + III F Gasoline engines and Traffic with J gasoline engines
  - Ford Diesel 1.8 Motorcraft filter and EFL344
  - Peugeot with Purflux Filter



Item #
8259



## Oil Filter Wrench for Haldex Clutch

- 46 mm 12-point
- for VW 4-wheel manual transmission



Item #
1048



## Self Grip Oil Filter Pliers, 53-115 mm

- forged
- nickel plated
- range of jaw: 53-115 mm
- 230 mm long



Item #
1038



## Oil and Fuel Filter Pliers with Swivel Jaws

- jaws can be inclined up to 90° in both directions for easy removal of oil and fuel filters
- ideal for loosening filters in hard-to-reach areas that could not be loosened with common oil filter pliers
- jaws adjust in 4 positions every 45°
- can grip filters from 57 mm to 120 mm
- slipping around the filters is avoided by 6 heavy claws on each jaw



Item #
8271



## Refractometer

- optical tester with various functions:
  - density of battery acid
  - coolant water balance (subdivides into ethylene and propylene)
- adjustable ocular
- precision +/- 5%



Item #	Description
1824	Refractometer
1824-1	Replacement Flap for Refractometer BGS 1824

## 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:  $\pm 1^{\circ}\text{C}$  ( $2^{\circ}\text{F}$ )
- temperature resolution:  $0.1^{\circ}\text{C}$  ( $0.1^{\circ}\text{F}$ )
- working temperature:  $0^{\circ}\text{C}$  -  $40^{\circ}\text{C}$  ( $32^{\circ}\text{F}$  -  $104^{\circ}\text{F}$ )
- storage temperature:  $-10^{\circ}\text{C}$  -  $50^{\circ}\text{C}$  ( $14^{\circ}\text{F}$  -  $12^{\circ}\text{F}$ )
- alarm of Low Voltage & Low power consumption
- conversion between Centigrade and Fahrenheit Degree
- temperature measurement range:  $0^{\circ}\text{C}$  -  $40^{\circ}\text{C}$  ( $32^{\circ}\text{F}$  -  $104^{\circ}\text{F}$ )
- 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



## Electronic Brake Fluid Tester

- determines the percentage of water in the brake fluid quickly and easily
- immediate indication of the test results via diodes:
  - green=- 1,5% water
  - yellow: 1,5 - 3% water
  - red: >3 % water
- with automatic shutdown
- includes battery

Item #
67240



## Professional Brake Fluid Tester

- high accuracy and reliability
- test results are displayed on 4 LEDs
- with protective cap to protect the sensors
- works on a 1.5V AAA battery (included)
- easy to use, switch on, insert sensors into the brake fluid, read result

Item #
67241



## Brake Fluid Tester

- 4 LED display for reading the condition of the brake fluid
- warning if battery is empty
- battery: 9V, 6F22, or equivalent

Item #
63525



## Boiling Type Brake Fluid Tester

- allows exact measurement of the boiling point as in a laboratory
- measurement by thermal boiling method, the tester boils brake fluid and the determined boiling temperature can be read on the display
- short measurement process: 30 seconds
- 12-volt terminals for connection to the vehicle battery
- measuring directly on the vehicle or via pipette and cup outside of the vehicle
- suitable for all brake fluids on glycolic base (DOT 3, DOT 4, DOT 5.1)
- measuring range: up to 320°C
- the device is recommended by leading vehicle manufacturers and corresponds to the Austrian and Swiss test standards



Item #
67245



## Digital Light Meter

- high accuracy
- easy to use
- fast measurements
- easy to read display unit
- automatic zero adjustment
- display: 3 1/2 digit LCD, max. 1999
- measurement range: 1 to 50,000 Lux in 3 ranges (2,000 Lux, 20,000 Lux and 50,000 Lux)
- accuracy at the operating temperature of 23°C ±5°C
 

range	resolution	accuracy
2.000	1 Lux	± (5% +10digits)
20.000	10 Lux	± (5% +10digits)
50.000	100 Lux	± (5% +10digits)
- sampling rate: about 2 times/sec
- sensor: silicon photodiode & filter
- operating environment: 0°C - 40°C, relative humidity max. 70%
- storage environment: -10°C~50°C, relative humidity max. 80%
- overload indication
- battery: 9V, 6F22 or equivalent
- size:
  - sensor unit: 112 x 53 x 16 mm
  - main body: 146 x 70 x 33 mm
- weight: about 210g



Item #
63526



## Digital Laser Thermometer

- for measuring temperature without touch
- range -20 up to +200° Celsius
- precision 2%
- incl. synthetic leather case, 9V battery



Item #
2190



## Tachometer

- digital display
- photoelectric
- measuring range: 1 - 99.999 rpm
- tolerance  $\pm 0,05\%$  +1d
- in plastic protection case

PRO+



Item #	Description
2188	Tachometer
2188-1	Reflector strips for BGS 2188

## 2-way Vacuum Tester

- 2-way: vacuum and pressure
- brake bleeding equipment
- tests of various under / over-pressure systems  
e.g. Turbo-charge pressure tests
- including manometer up to 4 bar (tolerance  $\pm 5\%$ )
- several accessories

PRO+

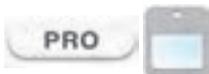


Item #	Description
8067	2-way Vacuum Tester
8067-1	2-way Vacuum Pump from BGS 8067

## Mechanics Stethoscope

- suitable for detecting faults in engines, bearings and other moving parts
- with steel tip

Item #
3535



## Electronic Stethoscope

- facilitates finding the location of noise sources and reduces the diagnosis time
- enables fast and uncomplicated acoustic testing for alternators and other parts of the engine
- headset features a padded headband and ear cups for excellent wearing comfort



Item #
3532



## Electronic Stethoscope

- the stethoscope allows fast and easy locating of noises and helps to find the cause of a motor problems



Item #	Description
3530	Electronic Stethoscope
3530-1	Microphon Main Unit for BGS 3530

## Electronic Stethoscope

- easily finds the origin of noises and reduces the diagnosis time
- 1-way amplifier allows fast and uncomplicated acoustic testing for example to test alternators and other parts of the engine
- includes 6-way amplifier and 6 color-coded probes
- allows troubleshooting while driving at various test points
- with alligator clips for easy attaching to the test points
- for mounting on e.g. engine, transmission and axle parts
- headset features a padded headband and ear cups for excellent wearing comfort



Item #
3531



## Ultrasonic Leak Detector for Gas, Air, Water Tanks

- for a reliable detection of leaks in closed, pressurized and non-pressurized pressure and vacuum tanks
- consisting of ultrasonic transmitter, receiver and headphones
- with visual and audible indication
- frequency response: 40 kHz  $\pm$  2 kHz
- operating conditions: Temperature: 0°C to 40°C
- relative humidity: max. 80%
- battery: 9V, 6F22 or equivalent
- size: 192 x 50 x 30mm
- weight: about 115g (including battery)



Item #
63524



## Digital Stroboscopic Gun for Gasoline Engines

- angle adjustment allows for precise electronic flash of the markers
- especially suitable for engines that have no angle mark on the pulley
- further measurements are possible over the easy-to-read 7-segment display:
  - Dwell at 2, 3, 4, 5, 6 and 8-cylinder engines
  - Voltage and Power Loss Test
  - Motor speed
- specifications:
  - firing angle: 0 to 60 °
  - speed: 200-9990 U /
  - dwell: 0-99,9%
  - voltage: 0 to 30 V



Item #
40106



## Digital Stroboscopic Gun for Gasoline and Diesel Engines

- angle adjustment allows precise electronic flash of the markers
- especially suitable for engines that have no angle mark on the pulley
- further measurements are possible over the easy-to-read 7-segment display:
  - dwell at 2, 3, 4, 5, 6 and 8-cylinder engines
  - voltage and Power Drop Test
  - engine speed
- **also used for testing at the start of diesel injection**
- signal is picked up by a piezoelectric transducer to be mounted on the diesel line.
- specifications:
  - firing angle: 0 to 60 °
  - speed: 200-9990 U /
  - dwell: 0-99,9%
  - voltage: 0 to 30 V



Item #
40107



## Oil Pressure Test Kit

- helps to locate faults in the oil pump system
- with many adaptors:
- R 1/8" DIN 2999, 1/8" x 27 NPT, 1/4" x 18 NPT, 3/8" x 20 UNF, 1/2" x 20 UNF
- M10 x 10, M12 x 1,5, M14 x 1,5
- M16 x 1,5, M18 x 1,5, 90°
- scale measuring 0 - 10 bar (tolerance +-5%)



PRO+

Item #	Description
8007	Oil Pressure Test Kit
8007-1	Gauge with Valve for Oil Pressure Tester BGS 8007

## Oil Pressure Test Set

- suitable for daily workshops use
- always shows the current oil pressure, does not lock maximum pressure
- with 2 meter pressure hose and quick coupling
- suitable for the following vehicles:
- Alfa, Audi, BMW, Citroen, Daihatsu, Fiat, Ford
- GM (Vauxhall / Opel), Honda, Hyundai, Isuzu, Jaguar
- Lada, Lancia, Mazda, Mercedes-Benz, Mitsubishi
- Nissan, Peugeot, Renault, Rover, Saab, Skoda
- Subaru, Suzuki, Toyota, Volkswagen, Volvo
- includes the following adaptors:
- M10 x 1.0 - M12 x 1.5 - M14 x 1.5 - M16 x 1.5
- M18 x 1.5 - 1/8" x DIN 2999 - 1/8" x 27 NPT
- 1/4" NPT x 27 - 3/8" x 20 UNF - 1/2" x 20 UNF



Item #
8402

PRO+

## Fuel Pressure Gauge, 0-8 bar

- all purpose set with precision manometer (0.03-8 bar) (tolerance +-2%)
- for mechanic and electronic fuel injection systems
- 30 adaptors make this set suitable for nearly all european, asian and american car brands, such as: Mercedes, BMW, Audi, Honda, Mazda, Renault, Peugeot etc.
- can be used for nearly all injection systems, e.g.: K-Jetronic, L/LH-Jetronic, Motronic, Motronic-Jetronic, MPFI, TBI, EFI, DIGIFANT 1/2, CIS-Digital, Weber CFI, Spi, Singlepoint, Multipoint
- easy checking of leak tightness, system and control pressure due to 3-way valve

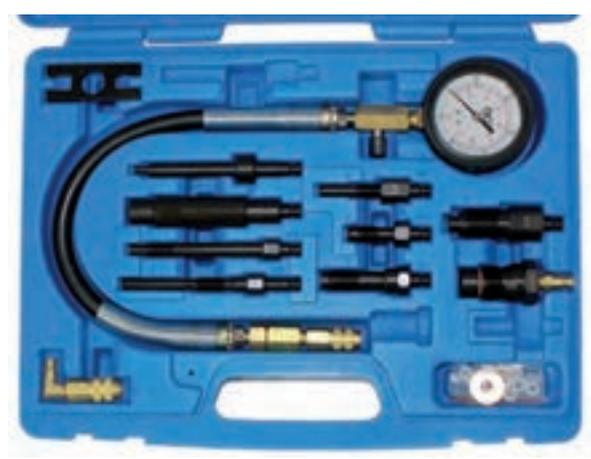


PRO+

Item #	Description
8026	Fuel Pressure Gauge, 0-8 bar
8026-1	Dial Gauge with Connectors for BGS 8026

## Diesel Engine Compression Testing Kit

- included various adaptors (for glowplugs and dummy injectors) make this kit useful for many car types
- 1 manometer (0-70 bar) (tolerance +-5%)
- incl. 90° elbow
- suitable for nearly all brands, such as: BMW, Mercedes, Ford, VW, Toyota, Renault, Volvo Mazda, Citroen, Opel, Nissan, Peugeot, Vauxhall
- incl. instruction manual



PRO+

Item #	Description
8008	Diesel Engine Compression Testing Kit
8008-2	Adapter BOSCH for BGS 8008, M10 x 1.0
8008-M10X1.0	Adaptor M10x1, length 119 mm for BGS 8008
8008-M10K	Adaptor M10x1, short for BGS 8008
8008-1	Pressure Meter for BGS 8008

## Compressed Air Adapter M14 and M18 for Cylinder Pressure

- for filling the cylinder with compressed air
- is used when removing valve springs without removing the cylinder head
- for acoustic leak testing of valves, piston rings, head gasket, etc.
- suitable for spark plug threads M18 x 1.5 and M14 x 1.25



Item #
8526

PRO+

## Precision Straight Edge, 600 mm

- suitable for engines with up to 6-cylinders
- for using together with a feeler gauge
- material: S50C
- tolerance: - 0.05mm
- dimensions: 600 x 60 x 36 mm

Item #
8397



## Petrol & Diesel Engine Compression Test Kit

- compression pressure testing up to 50 bar (725PSI)
- quick couplings in straight and angled versions
- includes:
  - glow plug adapters for the following manufacturers: Alfa, BMW, Chrysler, Daewoo, Fiat, Ford, Hyundai, Isuzu, Land Rover, Mazda, Mercedes, Mitsubishi, Nissan, Opel, PSA, Renault, Saab, Suzuki, Toyota, VAG, Vauxhall and Volvo
  - injector adapters for M20, M22, M24 and Ford Stanadyne injectors
  - spark plug adapters M10, M12, M14 and M18
- suitable for most cars, trucks, buses, agricultural and marine engines

Item #
8400



## Petrol & Diesel Engine Compression and Leakage Test Kit

- suitable for most petrol and modern HDi, TDCi and pump injector engines
- compression pressure testing up to 50 bar (725PSI) possible
- quick couplings in straight and angled versions, for
  - glow plugs on Alfa, BMW, Chrysler, Daewoo, Fiat, Ford, Hyundai, Isuzu, Land Rover, Mazda, Mercedes, Mitsubishi, Nissan, Opel, PSA, Renault, Saab, Suzuki, Toyota, VAG, Vauxhall and Volvo
  - injector adapters M20, M22, M24 and Stanadyne injectors for Ford
  - spark plug adapters M10, M12, M14 and M18
- suitable for most cars, trucks, buses, agricultural and marine engines
- additional pressure gauge for pressure drop test
- all gauges with rubber protection

Item #
8401



## 9-piece Truck Cooling System Tester

- with pump and 7 adaptors
- DAF-XF 95, XF 105
- Scania-113, -114, -124 und -125
- Volvo-FH 12
- Iveco-Daily 2000 C-Series, Renault-Magnum
- MAN-L 2000, -TGA
- MB-Actros, -Atego, Axor, -ECO 8401, 1728, MAN- F 90, -F 2000, Iveco-EURO-Star, -EURO-Tech, Euro-Truck, Strahlis
- MB-Sprinter

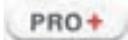


Item #
8514



## Universal Cooling System Test Adapter

- for quick adaptation
- spreading rubber suitable for 30 - 35 mm openings including 3 rubber adapter rings for 35-40, 40-45, and 45-50 mm openings
- fits on BGS 8027, 8027-1 and 8098
- made of anodized aluminum



Item #	Description
8599	Universal Cooling System Test Adapter
8599-1	35-40 mm Rubber for Universal Cooling System Test Adapter
8599-2	40-45 mm Rubber for Universal Cooling System Test Adapter
8599-3	45-50 mm Rubber for Universal Cooling System Test Adapter

## 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 #	Description
8098	24-piece Radiator Pressure and Cooling System Tester
8098-1	Cooling System Charger
8098-2	Rubber Adapter for BGS 8098



## 14-piece Radiator Pressure Test Kit

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



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: Ford Galaxy, 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
8027-21	Radiator Pressure Adapter for Opel Astra J + Zafira C
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
8027-33	Hose for Radiator Pressure Test Kit Item 8027



Testing Sets

## CO2 Leak Detector for Cooling Systems

- contrast agent included (also available separately)
- can be combined with item # 8027 (pressure testing kit)



Item #	Description
8037	Cylinder Head Leakage Tester
8037-1	Contrast Agent for Leak Detector #8037



## 6-piece Cooling System Bleeding and Filling Tool

- for the straight forward bubble-free filling of coolant systems, at the same time testing for leaks by negative pressure
- universal version with quick-action coupling
- gauge with rubber protection (tolerance  $\pm 2\%$ )
- rubber head adjusts to nearly all car types



Item #
1773



## Compression Tester, M14 + M18

- suitable for motorcycle and cars with 14 mm or 18 mm spark plug
- 300 mm flexible hose
- large ( $\varnothing 70$  mm) easy to read scale
- scale: 0 - 21 bar / 21,5 kg/cm<sup>2</sup> / 300 P.S.I.
- blow off valve
- to test engine valve and piston rings
- ! Shut down power of ignition coil before working with this tool !



Item #
8005



## 12 mm Adaptor for Compression Tester Art. 8005

- useful extension for Compression Tester 8005 or 8235
- 12 mm adaptors can be used for Go-Carts, motor saws etc.

Item #
8005-12



## M10 Spark Plug Thread Adapter for Compression Tester BGS 8005, 8235, 8236

- suitable for 2- and 4-stroke motorcycle engine
- to use with BGS 8005, 8235, 8236

Item #
8005-10



## Compression Tester, M12 + M14

- suitable for motorcycle and cars with 12 mm or 14 mm spark plug
- 300 mm flexible hose
- large (ø 70 mm) easy to read scale
- scale: 0 - 21 bar / 21,5 kg/cm<sup>2</sup> / 300 P.S.I.
- blow off valve
- to probe engine valve and piston rings
- ! Shut down power of ignition coil before working with this tool !

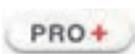
Item #
8236



## Compression Tester, M10 + M14

- suitable for motorcycle and cars with 10 mm or 14 mm spark plug
- 300 mm flexible hose
- large (ø 70 mm) easy to read scale
- scale: 0 - 21 bar / 21,5 kg/cm<sup>2</sup> / 300 P.S.I.
- blow off valve
- to probe engine valve and piston rings
- ! Shut down power of ignition coil before working with this tool !

Item #
8235



## Digital Compression Tester, M10-12-14-18

- testing gauge with digital display
- tolerance +/-1%
- connection hose with double thread M14 and M18
- with two adaptors M12 and M10

Item #
8021



## 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
  - maximum pressure 6.8 bar / 100 PSI
  - before connecting to compressed air system the adjusting valve must be closed.
- Connect the device to the compressed air system and open the adjusting valve slowly until the pointer reaches the 0-mark!



PRO+

Item #	Description
62645	7-piece Pressure Loss Testing Kit
62645-1	Gauge for BGS 62645

## Gear Box Compression Test Kit

- with two manometers for high and low pressure range (tolerance +/- 5%)
- suitable for many gearboxes due to an excessive adaptor assortment



Item #
8028

PRO+

## 25-piece Carburetor Tester, 0-14 PSI

- for synchronal testing of 2-4 carburetors
- for cars and motor bikes
- 4 manometers, Ø 92.5 mm
- 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+

## Coating Thickness Gauge, for Iron Metals

- measures the coating thickness on ironmetal
- digital display with backlight
- one-hand operation
- measuring range: 0 - 40 mils / 0 - 1000  $\mu\text{m}$
- resolution: 0,1 mils / 0,1  $\mu\text{m}$
- accuracy:
  - +/- 4 dgts (0 - 7,8 mils)
  - +/- 7 dgts (0 - 199  $\mu\text{m}$ )
- response time: 1 sec
- auto hold function
- automatic turn-off

delivered with bag, battery, calibration pad & manual

Item #
2193



## Coating Thickness Gauge, for Iron and Non-Iron Metals

- measures the coating thickness on ironmetal **and non-iron-metal**
- digital display with backlight
- one-hand operation
- measuring range: 0 - 40 mils / 0 - 1000  $\mu\text{m}$
- resolution: 0,1 mils / 0,1  $\mu\text{m}$
- accuracy:
  - +/- 4 dgts (0 - 7,8 mils)
  - +/- 10 dgts (0 - 199  $\mu\text{m}$ )
- response time: 1 sec
- auto hold function
- automatic turn-off

delivered with bag, battery, calibration pad & manual

Item #
2197



## Paint Thickness Tester

- allows measurements of paint and plastic coating thickness on metal surfaces
- ideal for the vehicle trade, improper bodywork repairs can be quickly found without much effort
- output via 3-color LEDs
  - red LED, paint thickness is greater than 1.8 mm
  - yellow LED, paint thickness is between 1.0 to 1.8 mm
  - green LED, paint thickness is less than 1.0 mm
- comparison measurements are possible on a reference base
- measuring head protected by a removable cap
- weight 50g
- dimensions: 68 x 40 mm

Item #
63535



## Gas Detector

- detects methane and propane gas
- quick to pinpoint gas leaks
- automatically calibrate when power is on
- auto power off to save battery life
- 5-level LED leak alarm
- over 440mm long flexible probe
- built in earphone jack
- mute function
- probe: Semiconductor
- response time: under 10 seconds
- warm up: max. 60 seconds
- operating temperature: -5°C to 45°C
- measuring range from:
  - methane 120 - 1920 ppm
  - propane 40 - 640 ppm



Item #
2198



## Video Borescope with TFT Monitor

- 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



## Video Borescope with LCD Monitor

- 5.9 mm super thin camera lens
- 3,5" large LCD color display
- 100 cm flexible gooseneck
- camera head with 3 LED
- image can be rotated
- AV transmission cable
- IP67 water proof
- incl. 4x 1.5V AA batteries
- nylon storage bag
- optional accessory kit with hook, side view mirror and magnet available under BGS 63246



Item #
63245



## Side View Mirror, Hook, Magnet for BGS 63245

- hook and magnet for fishing objects
- mirror optics enables a 90° lateral vision
- in plastic box with polyurethane insert



Item #
63246



## 45° Side-View Mirror, Hook, Magnet for Videoscope Art. 63210

- for mounting on video borescope
- with clip fastener
- 45° mirror
- hook
- magnet



Item #
63211



## 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



Testing Sets

Item #
63310



## Electronic Brake Resetting and Diagnostic Device

- range of application
  - EPB / SBC trouble code reading and clearing
  - SBC / EPB system activation and deactivation
  - inspection of brake systems
  - position of rear brake piston must be set before and after changing brake discs & pads
- suitable for:
  - Audi A6/ AS (2004-2012),
  - VW Passat (2005-2012),
  - Mercedes E211/E219 (until 2006)
  - Mercedes S221 (until 2007)
- display: backlight, 128 x 64 pixel display
- operating temperature: 0-60° C
- 9 V cell battery
- dimensions: 209x107x37 mm
- user's manual



Item #
8385



## Air Condition Leakage Tester

- for easier leak detection on cars, trucks, and other air conditioners
- suitable for refrigerants: R134a, R12, R11, R500, R503, R22, R123, R124, R502, R404a, R125, AZ 50, HP62, MP39
- visual and audible signal upon leak detection
- adjustable sensitivity
- working mode: continuous and no limit
- short reaction time
- size: 22.9 x 6.5 x 6.5 cm
- weight: 560 grams
- power supply: 3V DV (2x 1,5V)
- probe length: 35.5 cm



Item #
8557



## Air Condition Pressure Gauge

- ideal replacement item for defective gauges on service devices
- can also be used for diagnosis without service devices
- includes high- and low pressure hose and connection hose for service devices
- gauges are protected in an aluminum housing
- shut-off valves for high and low pressure
- with hanging hook



Item #
8425



## 12V Glow Plug Analyser

- reduces the cost for glow plug testing, removing of the glow plugs for testing is not necessary
- test results are shown on LED display
- suitable for testing of 12V glow plugs
- easy to use



Item #
2178



## 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



PRO+

Item #	Description
2996	Mechanic's Creeper, 103x50x10 cm, with working light
2996-2	Spare Wheel for BGS 2996

## Workshop Creeper, 100x51 cm

- heavy duty finish
- ergonomically shaped head rest
- 4 rolling wheels



PRO

Item #	Description
2994	Workshop Creeper, 100x51 cm
2989	Spare Wheel for Item Nr. 2994 + 2996

## Workshop Creeper, 100x42x10 cm

- square head metal frame
- blue lacquered finish
- size: 100x42x10 cm
- padded cover
- 6 swivel action casters with ball bearing rubber wheels for easy movement



Item #
2992

PRO

## Mechanics Creeper / Seat

- with double ball bearing rolling wheels
- persistent synthetic leather padded cover
- converts easily from creeper to seat and back, adjustable
- size: 120 x 42 cm
- laying height: 120 mm

**PRO**

Item #	Description
2995	Mechanics Creeper / Seat
2997	Spare Wheel for Item Nr. 2995

## Roller Seat

- tool storage tray underneath the seat
- plastic
- black
- with 4 rolling wheels

**PRO+**

Item #	Description
1919	Roller Seat
1916	Spare Wheel for Item Nr. 1919

## Truck Tire Cart

- facilitates the transport of truck wheels
- max. wheel weight 68 Kgs

**Item #****9236****PRO**

## Tire Transport Cart, 200 Kg

- ideal for picking up and transporting sets of wheels
- Tyres are picked up quickly and easily thanks to the adjustable tyre scoops and tilt stop crossbar
- 2 solid rubber tyres Ø 125 mm
- 2 air-filled tyres Ø 260 mm
- solid welded tubular steel frame
- max. scope size: Ø 730 mm
- max. load capacity: 200 kg
- frame height: 1610 mm



Item #
8525

PRO

## Digital Tire Depth Gauge

- measuring range from 0,00 - 28 mm
- mm / inch display
- battery included



Item #
1941

PRO+  CE

## Rim Bore-Circle Calipers

- for measurements the hole circle on steel and aluminum rims
- greatly facilitates the determination of the hole circle
- suitable for 4 -, 5 -, 6 - and 8-hole rims



Item #
8367

PRO+

## 1/4" Special Socket for Steel Tire Valves

6.3  1/4"

- facilitates the installation and removal of steel valves
- central stem allows a slipping free loosening and tightening with a torque wrench
- suitable for example for aluminum rims, rims of vans and mobile homes
- recommended by steel valve manufacturers to prevent pressure loss



Item #
8311

PRO+  CV

## 50-piece Wheel Balancing Weights, 12 x 5 g

- 12 weights of 5g each
- material: steel with anti-corrosion coating
- self-adhesive



Item #	PRO+
8426	

## Wheel Balancing Weight Pliers, 240 mm

- chrome plated
- insulated handles



Item #	PRO+	
1539		

## Loosening Tool for Wheel Nut Covers

- Wheel nut caps can be removed without damaging the rims
- especially suitable for aluminum rims
- gripping claws made of spring steel
- T-handle for easy working



Item #	PRO+	
8257		

## 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

In assortment box



Item #	PRO+
3272	

## Thread Tap for Tire Valves

- suitable for car tire valves
- features:
  - turning out of valves
  - recutting of valve threads



Item #
8453



## 2-piece Tire / Valve Tool

- for the assembly of valves
- length: 130 mm



Item #
1536



## Valve Core Torque Tools

- for screwing in rubber-sealing valves
- no more overwinding, no more damaged seals
- acoustic alert when reaching the max. torque



Item #	Description
1550	Valve Core Torque Tool 0.25 NM
1551	Valve Core Torque Tool 0.45 NM

## Tire Valve Installer

- plastic, perfect for aluminium rims
- length 285 mm



Item #
1538



## Tire Valve Shaft Assembly Tool

- easy assembly of new valves into the valve hole of the rim of tubeless tyres
- length: 310 mm
- suitable for all sorts of rims



Item #
1535



## Edge Protection Set, 150 mm

- prevents rim damage when mounting tires
- suitable for motorcycle and car rims
- with cord against loss



Item #
8504



## Car Tire Booster

- tire booster helps filling tires with loose beads as a result of e.g. prolonged storage
- max. pressure: 11 bar, limited by safety valve
- tank capacity: 20 l
- weight: ca. 13 kg
- dimensions:  
Ø 260 mm x width 420 mm x height 300 mm  
(filling cone excluded)



Item #
8365



## Tire Pressure Gauge

- ABS
- scale reads 10-75 Psi / 0,5 - 5,5 kg/cm<sup>2</sup>



Item #
2102



## Digital Tire Pressure Gauge

- testing range: 0,35 - 7,00 BAR
- display reads in: BAR, PSI, kPA, kg/cm<sup>2</sup>
- tolerance 1psi / 0,07 bar



Item #
2101



## Dead Blow Bumping Hammer

- 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

PRO

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



## Four-Way Wheel Wrench for Cars, DIN 899

- chrome plated
- with polished sockets
- hardened and forged
- arm length 355 mm
- 16 mm Ø
- 17x19x 22x13 /16"

Item #	1455
--------	------

PRO+



## Four Way Wheel Wrenches

- chrome finish
- hardened
- one side with 4 pt. for sockets

PRO+

Item #	Description
1459	Four-Way Wheel Wrench for Cars, 17x19x21x1/2" 4pt. Head
1457	Four-Way Wheel Wrench for Trucks, 24x27x32x3/4" 4pt. Head



## Four-Way Wheel Wrenches

- higher torque through adjustable joint

PRO+

Item #	Description
1456	Four-Way Wheel Wrench for cars, foldable, 17x19x21x1/2" square
1458	Four-Way Wheel Wrench for trucks, foldable, 24x27x32x3/4" square



## Expert Tube Cutter, up to 35 mm Ø

- with ratcheting function
- manufactured from diecast aluminium
- hardened and stainless blades
- for plastic tubes up to 35mm Ø



Item #	Description
1819	Expert Tube Cutter
1819-1	Spare Blade for Professional Pipe Cutter BGS 1819



## Pipe Cutter, 4-28 mm

- for copper pipes
- with spring for adjusting the cutting wheel contact pressure
- with one spare blade
- not suitable for steel pipes

Item #
8344



## Pipe Cutter, 3 - 25 mm

- solid construction
- fine adjustment spindle
- suitable for aluminum, copper, steel pipes
- with deburrer



Item #	Description
8341	Pipe Cutter, 3 - 25 mm
8341-1	Replacement Cutter for 8341



## Pipe Cutter, 3 - 25 mm / 1/8" - 1"

- heavy duty
- fine adjustment spindle to adjust the cutting roller pressure
- suitable for aluminum, copper, steel pipes



Item #	Description
8340	Pipe Cutter, 3 - 25 mm / 1/8" - 1"
8340-1	Replacement Cutter for 8340



## 2-in-1 Inner-Outer Copper Pipe Cleaning Brush

- inner cleaning up to 15 mm
- outer cleaning up to 22 mm



Item #
8342



## Tube Bending Pliers, 4.75 + 6 mm

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



Item #
8229



## Tube Bending Tool 3 - 4.75 - 6 mm

- made from aluminium
- suitable for 3mm, 4.75 and 6 mm tubes
- minimum bending radius: approx 15 mm



Item #
8228



## Bending Pliers, for Metal Pipes, 4-6-8-10 mm

- for bending 4-6-8-10 mm strong copper, aluminium and / or steel pipes
- with two replacable bending wheels, each providing 180° for 4/6 mm and 8/10 mm
- minimum bending radius: approx 18 mm



Item #
3061



## Tube Bender, for 6-8-10 mm Pipes

- 3-hole
- up to 180°
- for aluminium tubes
- minimum bending radius: approx 25 mm



Item #
3062



## Plastic Scrapers

- for the removal of glued wheel balancing weights on aluminum wheel rims and for removing glued protective strips
- blade can be sharpened



PRO+

Item #	Description
365	Plastic Scraper, 22 mm
367	Plastic Scraper, 19 mm

## 4-piece Plastic Scraper Set, 19-22-25-38 mm

- ideal for the removal of glued weights on aluminium rims (motorcars and motorbikes)
- suitable for removing glued protective strips on a car's body
- blade can be sharpened



Item #
366



## Scraper, Stainless Steel, solid Rubber Grip Handle

- blade width: 30 mm
- blade length: 105 mm



Item #
3063



## 4-piece Allround Scraper Set

- solid, ergonomically shaped rubber grip handle with hanging hole
- 1 scraper blade size: 94 mm x 1,1mm thick x 31mm wide
- 1 scraper blade size: 94 mm x 2,4mm thick x 31mm wide
- 1 scraper blade size: 43 mm x 2,4mm thick x 20mm wide
- 1 scraper blade size: 43 mm x 1,1mm thick x 20mm wide



Item #
363



## Gasket Scraper, 280 mm

- for cleaning cylinder head / valve cover and carburetor cover gaskets
- blade size: 23mm wide



Item #
3085



## 14-piece Windshield Removal Tool Kit

Kit has all tools needed to cut the vinyl adhesive and urethane around windshield.

Contents:

- 600 mm weather strip cutting knife
- 300 mm weather strip cutting knife
- 3-piece replaceable blade pinchweld scraper (3/4" - 5/8" - 1/2")
- extra wide pinchweld scraper
- 72 feet Triangle wire
- 2-piece Wire gripping handles
- Windshield removal tool
- Hex wrench
- Wire feeder tool
- Trim pad remover
- Windshield moulding release tool



Item #
69500



## 7-piece Windscreen Removal Set

- for bonded/sticked windscreens
- panel-removal tool with handle 275 mm
- piercing awl 350 mm
- 2 handles for cutting wire
- 1.80 m cutting wire
- double hook handle 240 mm
- pull scraper with handle and pull rope



Item #
8004



## 2 Handles for Windscreen Cutting Wire (from Item # 8004)



Item #
8003



## 5-piece Windscreen Assembly Set

- for not bonded / sticked windcreens
- includes the following tools:
  - role handle for easy redirect of the rope
  - ball handle 210 mm, angled for non-destructive lifting the sealing rubber
  - hook handle 210 mm, 45° angled and hook handle 270 mm, 90° angled, facilitated the installation of the sealing rubber
  - guide handle 220 mm, for tracking the installation rope
  - installation rope 6.0 m



Item #	PRO+	
8002		

## 4-piece Windscreen Removal Set

- 2 handles
- 22 m triangle windscreen cutting wire, stainless
- 1 int. hex. key for adjusting the wire



Item #	PRO+	
8022		

## Square Window Cutting Wire, 50 m

- stainless
- use along with item # 8003 (handles) + 8022



Item #	PRO+
8006	

## Bonded Windscreen Removal Tool for Removing bonded/sticked Car Windows

- aluminium handle
- hardened blade



Item #	PRO+	
7999		

## Spare Blade for Item # 7999

Item #
8001



## Wire-Through Testing Probe, T-Handle

- stainless steel tube (length approx. 100 mm) for pushing through the cutting wire
- aluminium handle



Item #
67200



## Parting Awl, 320 mm

- adapts to curved surfaces, making it easier to insert wires in vehicles with deep cockpits
- wire insertion is made easier by the fork opening
- made of stainless steel
- slotted head
- T-handle for easy operation



Item #
67202



## Car Windshield Removal Tool

- suitable for all bounded car windshields
- long angled shaft reduces the risk of damaging the car interior
- ergonomically shaped nylon handle
- wire is clamped by screw



Item #
67201



## 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



## CLIC-L Hose Clamp Pliers

- disassembly and assembly of Clic-L hose clamps
- suitable for VW-Audi, Citroen, Mercedes Opel (Vauxhall), Peugeot, etc.
- hardened jaws
- chrome plated handle
- length 175 mm

Item #
8347



## Hose Clip Pliers, 245 mm

- for compressing clips (oetiker system), for example on:
- fuel lines, coolant lines
  - axle boots

Item #
466



## Bent Hose Clip Pliers for CLIC & CLIC-R Clips

- 190 mm long
- turnable jaws

Item #
471



## CLIC-L Hose Clamp Pliers

- allows easy and fast unlocking and locking of clipped, reusable hose clamps
- length: 150 mm

Item #
8470



## Pliers for Ear-Type Clamps

- allows a professional squashing of ear-type hose clamps
- length: 240 mm
- dip coated handles



Item #
8359



## Ratcheting Bent Hose Clip Pliers

- length 220 mm
- nickel plated handles



Item #
477



## Hose Clip Pliers

- for solving hose clamps
- also suited for solving hoses
- 2-step adjustable
- serrated gripping jaws for better grip
- non-slip handle



Item #
8409



## Ratcheting Hose Clip Pliers, 200 mm long

- for spring band clips
- interchangeable jaws (2 pairs)



Item #
473



## 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)
- black finish with red plastic handles
- length 630 mm



Item #	Description
470	Hose Clip Pliers with Bowden Cable
47	Spare bowden Cable for Item Nr. 470



## Hose Clamp Pliers for VAG 2.0 TDI

- suitable for new style hose clamps, as built into VAG 2.0 TDI engine
- also suitable for tight spaces because of bowden cable operation
- hose clamp has a locking function and release button



## Flexible Hose Clamp Screwdriver

- 500 mm
- 1/4" drive
- incl. 3 sockets 4-5-7 mm



## Hose Clamp Pliers For Torque Wrench Operation

10  $\frac{3}{8}$ "

- **forged Steel**
- suitable for stainless steel hose clamps
- simply adjust the required torque using a torque wrench on the  $\frac{3}{8}$ " square



## CV-Joint Boot Pliers

- universal use: works on steering gear gaiters, fuel hoses on VAG, Opel, BMW, Mercedes-Benz, Honda, Nissan, Mazda etc.
- for working on Oetiker System hose clamps
- nickel plated
- length 235 mm



Item #
161



## Spring Clamp Pliers for Fuel Lines

- suitable for Audi, Seat, Skoda and Volkswagen
- especially suitable for spring clamps on fuel lines
- facilitates the dismantling and assembly of small spring clamps
- hardened, warp-free claw
- with spring



Item #
66102



## Hose Stripping Pliers, 200 mm

- suitable for tube diameter 4 to 13 mm
- length 200 mm
- PVC dipped insulated handles



Item #
486



## Hose Clip Pliers

- for clamping coolant, brake fluid and fuel lines
- adjustable

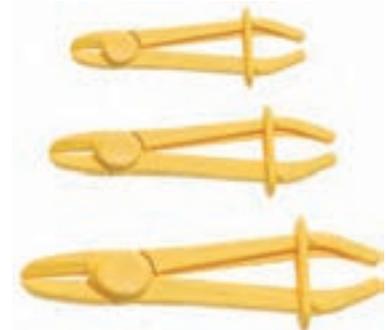


Item #	Description
1715	Hose Clip Pliers, 150 mm
1716	Hose Clip Pliers, 200 mm
1717	Hose Clip Pliers, 250 mm



## 3-piece Hose Clip Pliers Set, 155-250 mm

- for coolant, brake fluid and fuel lines
- sizes: 155, 185, 250 mm
- adjustable



Item #
1815



## Expert Hose Clamps

- for clamping fuel lines and other plastic hoses
- with spinning metal frame



Item #	Description
1825	Expert Hose Clamps, Diameter 10 mm
1826	Expert Hose Clamps, Diameter 15 mm
1827	Expert Hose Clamps, Diameter 25 mm
1828	Expert Hose Clamps, Diameter 45 mm



## 4-piece "Expert" Hose Clamps Set

- 4 sizes for various Ø up to 15 / 20 / 30 / 65 mm Ø
- stops fluids within the hose

Item #
1823



## 8-piece Hose Locking Pliers Set

- for locking hoses during repair jobs
- prevents spillage and leakage of operation liquids
- for e.g. brake hoses, air conditioning hoses, power steering hoses
- contains 8 line stoppers

Item #
1721



## 5-piece Hose Locking Set

- for locking the brake lines and hoses with Banjo fitting during repair jobs
- prevents spillage and leakage of operation liquids
- for e.g. brake hoses, air conditioning hoses, power steering hoses
- contains 2 locking pliers and 3 locking clips, suitable for 3 different hose diameters (internal diameter 5 mm - 6.3 mm - 8 mm)

Item #
1719



## Flexible Hexagon Screwdrivers, especially for Clamps

- hexagon reception
- mainly for operating hose clamps
- anti slip handle



Item #	Description
7826	Flexible Hexagon Screwdriver, Length 280 mm, 6 mm
7827	Flexible Hexagon Screwdriver, Length 280 mm, 7 mm
7828	Flexible Hexagon Screwdriver, Length 280 mm, 8 mm



## Hose Clip Installation Tool

- for tightening hose clips
- with cutter
- operated via 13 mm socket

Item #
1521



## Adjustable Hose Remover, Ø 45-120 mm

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

Item #
487



## Adjustable Hose Remover, Ø 24-53 mm

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

Item #
492



## 2-piece Generator Socket 1/2", T50x110

125 1/2

- length 110 mm
- for Mercedes Benz A-class
- 33 tooth pulley holder

Item #
4240



## 2-piece Generator Socket 1/2" XZN M10x110, Spline

125  1/2

- length 110 mm
- for VW, Audi, Skoda, Seat, Porsche, BMW, Ford, Mercedes
- 33 tooth pulley holder

Item #
4245



## 6-piece Impact E-Type / 12-point Socket Set, 3/4"

20  3/4

- suitable for impact wrenches, length 110 mm
- E18-20-22-24 + 17 and 19 mm 12-point sockets
- fits truck cylinder head screws, e.g. MB 300-400-420-500-900; MAN M 2000, F90, F8, D20, D25, D28



Item #	Description
5250	6-piece Impact E-Type / 12-point Socket Set, 3/4"
5346	3/4" Impact Socket, deep, 19 mm
5345	3/4" Impact Socket, deep, 17 mm
5349	3/4" Impact Socket, E24 x 110 mm
5348	3/4" Impact Socket, E20 x 110 mm
5347	3/4" Impact Socket, E18 x 110 mm



## E-Profile Socket 1/2", E12x150 mm, for BMW Cylinder Head

125  1/2

- spring ball joint
- suitable for: engine M42 1,8 l 4-cyl., 16V model 318is 1989- engine M50, 2,0 l 2,5 l 6 cyl., 24V model 520i, 525i 1991-

Item #
2020



## 3-piece Special Socket Set for BMW Rim Locks

125  1/2

- sizes: 17T x 14,5 mm 10T x 16,0 mm 21T x 16,5 mm

Item #
5285



## Pipe Wrench, for Mercedes-Benz W204 Bumpers, 1/4"

6.3 1/4

- 10 mm 6-pt. Pipe Wrench
- chrome plated



Item #
8479



## Door Hinge Mounting Tool Set

- for disassembly and assembly of door hinges, also suitable for other work in tight spaces
- includes the following bits with retaining ball: for Spline screws M8, M10 and M12, as well as for T-Star screws T30, T40, T45 and T50
- offset bit wrench
- reversible ratchet



Item #
8415



## Oxygen Sensor Wrench, 22 mm

- length: 250 mm
- slotted, angled head with hexagon and double hexagon drive
- chrome plated



Item #
8272



## Special Wrench for VW / Audi V6 and TDI Turbo Chargers

- wrench for assembly and disassembly of turbo chargers
- facilitates assembly of hard-to-reach screws
- 12 mm hex wrench with 12-pt and 3/8" drive
- depth 85 mm, length 99 mm



Item #
1004



## 7-piece 3/8" Slotted Special Socket Set

10 

- hardened satin chrome plated
- slotted sockets in 10, 11, 12, 14, 17 and 19 mm
- for the assembly of top and side wired temperature sensors, thermo switches and other components
- also suitable for nuts and bolts of bent pipes
- the slot width is: 7.4 mm, 8.8 mm, 9.1mm, 10.5 mm, 13.3 mm und 14.4 mm
- on socket rail



Item #
1105



## Special Socket Set 12-19 mm

12.5 

- especially suitable for pipeline fittings
- no widening because foot has special profile
- sizes 12,14,16, 17,18 and 19 mm with 1/2" drive
- angled, slotted socket with double hexagon
- length: 98 mm



Item #
1300



## Air Conditioner Tool Set

- contains all tools for fittings on air conditioning systems
- a useful supplement for item 8036
- special sockets for 2.2 and 3.2 mm fixed throttles
- 2 special 8-pt. sockets 12 and 15 mm
- TS-(5-Star-Profil) bits for loosening flanges etc: TS10, TS15, TS20, TS25, TS27, TS30 und TS40



Item #
2275



## 17-piece Screw and Stud Extractor Set

10 

- solves problems with rounded or torn off sockets and bolts
- contains:
  - 5 screw extractors for left side thread for loosening damaged internal hex screws
  - 4 stud sockets 6 - 8 - 10 - 12 MM
  - 8 special Zig Zag sockets for loosening rounded off hexagon nuts 9-10-11-12-13-14-16-19 mm (also used to tighten screws)
- drive: 3/8"
- all tools made of chrome molybdenum steel



Item #
8378



## 4-piece Special 1/2" Socket Set

125 □ 1/2

- ideal for loosening of heavily damaged screws and nuts
- especially for wheel nuts, locking nuts, etc.
- sizes 17-18,5-21,5-26 mm

In metal case

Item #
5260



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

10 □ 3/8

- 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: 10-11-12-13-14-15-16-17-19 mm
- single sizes available under Item# 5270-5279



Item #	Description
5265	10-piece Special Twist Socket Set, 10-19 mm, 3/8"
5270	3/8" Special Socket, 10 mm
5271	3/8" Special Socket, 11 mm
5272	3/8" Special Socket, 12 mm
5273	3/8" Special Socket, 13 mm
5274	3/8" Special Socket, 14 mm
5275	3/8" Special Socket, 15 mm
5276	3/8" Special Socket, 16 mm
5277	3/8" Special Socket, 17 mm
5278	3/8" Special Socket, 18 mm
5279	3/8" Special Socket, 19 mm



## 10-piece Special Twist Socket Set, 10-19 mm, 1/2" Drive

125 □ 1/2

- 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**
- sizes: 10-11-12-13-14-15-16-17-19 mm



Item #	Description
5266	10-piece Special Twist Socket Set, 10-19 mm, 1/2" Drive
5266-10	Special Twist Socket, 10 mm
5266-11	Special Twist Socket, 11 mm
5266-12	Special Twist Socket, 12 mm
5266-13	Special Twist Socket, 13 mm
5266-14	Special Twist Socket, 14 mm
5266-15	Special Twist Socket, 15 mm
5266-16	Special Twist Socket, 16 mm
5266-17	Special Twist Socket, 17 mm
5266-19	Special Twist Socket, 19 mm



## 16-piece Special Twist Socket Set, 8-27 mm, 1/2"

125  $\frac{1}{2}$

- 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: 8-10-11-12-13-14-15-16-17-19-21-22-24-27 mm



Item #
5269



## Special Twist Socket Set, 1/2"+3/4"

20  $\frac{3}{4}$  125  $\frac{1}{2}$

- 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: 1/2": 22-24-27-32    3/4": 36-41 mm
- single sizes available



Item #	Description
5268	6-piece Special Twist Socket Set, 22-41 mm, 1/2"+3/4"
5268-22	1/2" Special Twist Socket, 22 mm
5268-24	1/2" Special Twist Socket, 24 mm
5268-27	1/2" Special Twist Socket, 27 mm
5268-32	1/2" Special Twist Socket, 32 mm
5268-36	3/4" Special Twist Socket, 36 mm
5268-41	3/4" Special Twist Socket, 41 mm



## 1/2" Special Twist Sockets, 150 mm long

125  $\frac{1}{2}$

- 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**
- sizes in set: 17 - 19 - 21, incl. tommy bar



Item #	Description
5264	4-piece 1/2" Special Twist Socket Set, deep type
5264-17	1/2" Special deep Twist Socket, 17 mm
5264-19	1/2" Special deep Twist Socket, 19 mm
5264-21	1/2" Special deep Twist Socket, 21 mm
5264-22	1/2" Special deep Twist Socket, 22 mm
5264-TB	Pin Punch for Twist Sockets



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

125 □ 1/2

- 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**
- sizes: 17 - 19 - 21 - 22 mm, incl. tommy bar



Item #
5262



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

- 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



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

10 □ 3/8

- 2-3-4-6-8-10 mm
- 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



Item #
5281



## 7-piece Special Twist Sockets Set, 6-14 mm, 1/4" hex.

63 □ 1/4

- 1/4" hex. shaft : fits every standard drill shaft
- sizes: 6, 8, 10, 11, 12, 13, 14 mm
- black finish
- for loosening defective nuts & screws
- innovative thread gets stucked in nuts & screws and allows safe loosening



Item #
5267



## Spreader Socket for Spring Strut Clamp

125 □ 1/2

- for spreading spring strut clamps on VAG, BMW, Citroen, Ford, Renault wheel bearing housings



Item #	Description
6453	Spreader Socket for Spring Strut Clamp, 5.5 x 8.2 mm
6454	Spreader Socket for Spring Strut Clamp, 5 x 7 mm
6455	Spreader Socket Set for Spring Strut Clamp, 5 x 7 mm and 5.5 x 8.2 mm

## E Type Sockets with 30 mm hex. drive

- with retaining ball
- length approx. 40 mm
- 30 mm hex. drive
- **E20 - BGS 6451**  
- suitable for MAN TGL brake caliper
- **E24 - BGS 6452**  
- suitable for MAN TGL brake caliper



Item #	Description
6451	E20 E-type Socket with 30 mm hex. drive
6452	E24 E-type Socket with 30 mm hex. drive

## Multi-Point Socket for Mercedes Injection Pumps, 33 teeth

125 □ 1/2

- for mounting and dismounting of injection pumps
- suitable for Mercedes-Benz models: 601, 602, 603, 605, 606, 615, 616 and 617



## Butterfly Sockets with Ratchet Locking Function

- can be released by pushing a button on the side
- suitable for pipe coupling
- fully hinged, so that it can encompass pipes
- each wrench fits several socket sizes



Item #	Description
1382	Butterfly Socket, 3/8", 11 - 16 mm
1383	Butterfly Socket, 3/8", 17 - 24 mm

## 4-pc. Butterfly Socket Sets

- applications: hydraulic piping, A7C piping, plumbing, pipe nuts, tie rod ends, O2 sensors and diesel injectors
- locks the two interlocking halves of the socket when the square drive is in place
- sockets fit both metric and inch size fasteners
- unique nut drive surfaces enable even damaged or worn nuts to be operated with confidence
- flat square drive socket design allows for use where access cannot be gained using conventional sockets
- to be used with ratchet, torque ratchet or pry bar
- contains sizes (Item 1380):
  - 11,2 mm (7/16)    12-13 mm (1/2)
  - 14 mm (9/16)    16 mm (5/8)
- contains sizes (Item 1381):
  - 17-18 mm (11/16)    19-20 mm (3/4)
  - 21-22 mm (13/16 - 7/8)    23-24 mm (15/16)



PRO+

Item #	Description
1380	4-pc. Butterfly Socket Set, 11.2-16 mm
1381	4-pc. Butterfly Socket Set, 17-24 mm

## VAG 4WD Drive Shaft Socket

20 3/4

- suitable for drive shaft nut on 6-speed gearbox 0A3 (4WD) to be used as OEM T40097
- to be used e.g. on: Audi A4 2001+, Audi A6 2005+
- 3/4" drive
- length: 124 mm



Item #
8572

PRO+

## Pin Socket for Mercedes-Benz M-Class Joints

12.5 1/2

- suitable for suspension ball joints on front and rear axles on Mercedes-Benz M-Class W163 and W164
- flat type



Item #
8575

PRO+ CROMO

## Groove Nut Sockets for MB Rear Axle

20   $\frac{3}{4}$

- made according to DIN 3121 / ISO 1174
- high accuracy
- extremely robust construction
- suitable for high tightening and loosening torque
- stud: 6 pcs.
- stud width: 10 mm
- weight: 2.6 kg

### BGS 8268

- suitable for Mercedes Benz Actros rear axles, HL/HL 8 (Hypoid) etc.
- inner diameter: 105 mm
- outer diameter: 125 mm
- height: 182 mm
- stud diameter: 115 mm

### BGS 8269

- suitable for Mercedes Benz Atego rear axles, Vitaro 814, MAN, etc.
- inner diameter: 80 mm
- outer diameter: 95 mm
- locating tube diameter: 49 mm
- height: 185 mm
- stud diameter: 87 mm



Item #	Description
8268	Groove Nut Socket, MB Actros, 105 - 125 mm
8269	Groove Nut Socket, MB Atego, 80 - 95 mm

## Grooved Nut Wrench

- made from heavy duty steel
- for professional truck repair
- for more details about each socket please visit our website and enter the respective item#



Item #	Description
5420	Pin Wrench Socket For Ball Joint, Mercedes M-Class
5421	Transmission Clutch Front Main Shaft Socket 72/80 mm



## 11-piece Special Socket Set for Grooved Nuts, 22-75 mm

125   $\frac{1}{2}$

- for gentle loosening groove nuts
- suitable for e.g. bearing nuts
- 1/2" drive, length 60 mm

all dimensions in mm			
insideØ D2	outsideØ D1	tooth width ZB	tooth length ZL
15.5	22.0	3.3	5.8
18.5	26.0	3.8	5.8
21.5	30.0	4.3	5.8
25.0	33.0	4.0	4.8
27.5	37.0	4.8	4.8
33.5	44.0	5.3	4.8
38.5	50.0	5.8	3.8
44.5	56.0	5.8	3.8
50.5	63.0	6.3	3.8
55.5	69.0	6.8	2.8
61.5	75.0	6.8	2.9



Item #
8265



## 10-piece Special Socket Set with Inside Tooth for Grooved Nuts, 26-88 mm 12.5 □ 1/2

- for gentle loosening groove nuts
- suitable at e.g. bearing nut
- 1/2" drive, length 60 mm

all dimensions in mm			
insideØ D2	outsideØ D1	tooth width ZB	tooth length ZL
20.0	26.0	2.8	2.5
23.5	31.0	2.8	3.0
26.5	34.0	3.8	2.5
29.5	38.0	4.8	2.5
34.5	42.0	3.8	3.5
40.5	50.0	4.8	3.5
46.5	58.0	4.8	4.0
59.5	75.0	5.8	4.5
65.8	82.0	5.8	5.0
71.8	88.0	5.6	5.0



Item #  
8266



## 5-piece Groove Nut Socket Set 12.5 □ 1/2

- suitable for Mercedes differential, gear and rear axle flange
- for Mercedes series 107 - 114 - 115 - 116 - 126 etc.
- allows gentle loosening and tightening using a torque wrench
- 1/2" drive

Item #  
67220



## Special Wrench for Shock Absorber with Oval Pins

- fits all common types of shock absorbers with oval pins
- two different wrench sizes:  
5 x 8 mm and 6 x 9 mm
- safer and easier to use than locking pliers
- wrench ends slightly angled, for more loosening space
- chrome plated, length 182 mm

Item #  
1301



## Pin Wrench for Shock Absorber Screwing, Mercedes

- for loosening the upper shock absorber screwing
- the recess in the front part of the pin wrench allows counterholding of the piston rod
- plastic coated shaft prevents damage
- suitable for Mercedes Benz 211 T-Model rear axle (E-Class Station Wagon)
- for nuts with 3-pin adapter
- length: 230 mm

Item #  
8307



## 4-piece Spring Strut Set

- suitable for Polo - Golf - Audi - Passat - Mercedes-Benz
- hex. drive, 22 mm



## Suspension Strut Socket, for Use with 22 mm Socket

- for loosening VW and AUDI suspension strut nuts
- best use along with 22 mm socket / spanner
- black finish



## 39-piece Suspension Tool Kit

- for counterholding the piston rod while loosening
- includes the following tools:
  - 6-pt. sockets, long, for loosening 14-16 - 17 - 18 - 19 - 21 - 22 - 24 and 27 mm
  - 2-tap sockets for loosening 10,5 - 12.5 - 14.0 and 14.5 mm
  - slot-profile socket for counterholding 4 to 5.2 - 6 - 6.3-7 - 8 - 9 - 10 and 12 mm
  - D-profile bits for counterholding 5 and 10 mm
  - 6-pt. sockets for counterholding 8 - 9 - 10 and 11 mm
  - 6-pt. bits for counterholding 5 - 6 - 7 and 8 mm
  - slotted bits for counterholding 3 - 3.5 and 4 mm
  - XZN bit M12
  - T-profile bits for counterholding T50 and T60



Item #	Description
2086	39-piece Suspension Tool Kit
2086-H5	Bit 5 mm internal hexagon from BGS 2086
2086-H6	Bit 6 mm internal hexagon from BGS 2086



Special Sockets / Wrenches

## Spring Strut Tool Set

- fits most popular vehicle types
- for repair jobs on shock absorbers and for retaining the shock absorber piston
- includes:
  - ratchet, reversible
  - int. hex. sockets, length 122 mm  
16 - 17 - 18 - 19 - 21 - 22 - 24 mm
  - int. hex. sockets, length 122 mm  
6 - 7 - 8 mm
  - special sockets, (oval), length 122 mm  
5x8 - 6x8 - 7,1x9,6 mm  
e.g. for Porsche Cayenne, VW Touareg
  - 6-pt sockets, length 122 mm  
7 mm for Mercedes Benz Vaneo  
8 mm for BMW  
9 mm for Opel corsa B , Astra F / G, Vectra B  
- T50, length 122 mm for Opel Astra H



Item #	PRO+	CV
2087		

## Stud Extractor

- suitable for damaged or broken studs with a diameter 6,3 to 14 mm (1/4" to 9/16")
- adjustable via 19 mm socket



Item #	PRO+	
1903		

## Stud Extractor, 6 - 12 mm

- allows a fast dismantling and mounting of studs
- chuck is suitable for 6 - 12 mm studs
- 36 mm 6-pt. chuck
- drive: 24 mm or 1/2"



Item #	PRO+	CV
8576		

## Stud Extractors

125 □ 1/2

- knurled

PRO+	CV
------	----

Item #	Description
1883	Stud Extractor, 6 mm
1884	Stud Extractor, 8 mm
1885	Stud Extractor, 10 mm
1886	Stud Extractor, 12 mm



## 4-piece Stud Extractor Set

12.5 □ 1/2

- sizes: 6-8-10-12mm
- 1/2" drive

Item #
1882



## 11-piece Stud Extractor Set

12.5 □ 1/2

- in sizes: 5 - 6 - 7 - 8 - 9 - 10 - 10,5 - 11 - 12 - 14 - 16 mm
- all sockets with outer hexagon for optional operating with open end wrench

Item #
65515



## 5-piece Stud Extractor Set

- 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



## Stud Extractor Set

- fitting thread sizes M5-6-8-10
- worldwide exclusive system without radial pressure on the bolt



Item #
1879



## Hook Wrench with flexible Jaw

- special steel
- black finish
- for slotted/grooved nuts (DIN 1804) and for adjusting stirring head bearings
- range of jaw: 35-60 mm
- overall length 175 mm



Item #
1226



## Face Pin Wrench, adjustable, 180 mm

- range: 11 mm and up
- arm length 172 mm (center joint - center pin)
- offset front end 11 mm
- pin diameter 4 mm
- riveted pins

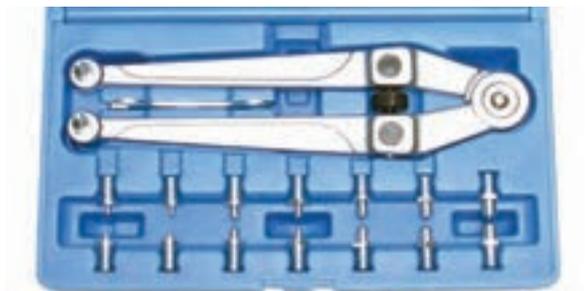


Item #
1463



## Face Pin Wrench Set, adjustable

- face pin wrench, length: 245 mm
- special steel, hardened, zinc-plated
- with 8 exchangeable pins - only one wrench needed for all standard pins
- pin diameters: 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 9 mm
- spanning width 102 mm



Item #	Description
1464	Face Pin Wrench Set, adjustable
1464-5	5 mm Pin Pair from BGS 1464

## 7-piece Oxygen Sensor Socket Set

10  125 

- 3/8" + 1/2" drive
- for assembly of oxygen sensors, radiator thermo switch and Diesel injection nozzles
- sizes:
  - 29 x 90 mm, 1/2" drive
  - 7/8" x 90 mm, 3/8" drive
  - 7/8" x 50 mm, 1/2" drive
  - 27 x 78 mm (12-pt.), 1/2" drive
  - 7/8" x 90 mm, 3/8" drive
  - 7/8" offset, 3/8" drive
  - 7/8" 12-pt.offset, 1/2" drive

PRO+

Item #	Description
1140	7-piece Oxygen Sensor Socket Set
1140-27	Oxygen Sensor Socket, 27 mm x 78 mm, 1/2" drive
1140-22	Oxygen Sensor Socket, 22 mm (7/8") x 50 mm, 1/2" drive
1148	Oxygen Sensor Socket, 22 mm (7/8") x 50 mm, 3/8" drive



## 14-piece Oxygen Sensor Socket Set

125 

- fits various car models:
- 1/2" drive x 30 mm 12-pt., length 80 mm: for Bosch, General Motors, Mercedes-Benz
- 1/2" drive x 27 mm 6-pt., length 80 mm: for various models
- 1/2" drive x 28 mm 12-pt., length 80 mm: fits Volvo, Scania, HGV
- 1/2" drive x 21 mm 12-pt., length 85 mm: fits Ford, VAG
- 1/2" drive x 27 mm 12-pt., length 85 mm: fits BMW, Fiat, Ford, Peugeot
- 1/2" drive x 22 mm 12-pt., length 80 mm: for various models
- 1/2" drive x 27 mm 12-pt., length 110 mm: fits Citroen, Peugeot
- 1/2" drive x 22 mm 12-pt., length 110 mm: fits Audi, BMW, Mercedes, VW, Volvo
- 1/2" drive x 22 mm 12-pt., length 150 mm, fits BMW
- 1/2" drive x 20 mm 6-pt., length 80 mm, slotted, for various models
- 1/2" drive x 19 mm 12-pt., length 80 mm, fits VW, Audi, Seat
- 1/2" drive x 17 mm 12-pt., length 80 mm, fits BMW, Mercedes Renault
- 1/2" drive x 22 mm 12-pt., length 50 mm, offset drive, for various models
- 3/8" drive x 22 mm 6-pt., length 30 mm, offset drive, for various models



Item #	PRO+	CV
1149		

## 1/2" Thermo Switch Socket

125 

- black
- extra deep, slotted finish
- length 78 mm
- socket size 29 mm for VW + Audi
- no damage of the thermo switch

Item #	PRO+	CV
2537		



## Oxygen Sensor Socket, Size 22 mm x 1/2" hex.

12.5  1/2

- deep and slotted finish

Item #
1138



## Oxygen Sensor Socket, 22 mm x 3/8" sq. Head

10  3/8

- VW, Passat, BMW, Nissan

Item #
1139



## 1/2" Oxygen Sensor Socket 22 mm

12.5  1/2

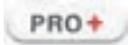
- for VAG, BMW, Mercedes, Ford, Opel, etc.
- length: 150 mm
- max. outside diameter: 30 mm
- slot width: 13 mm
- slot Length: 115 mm

Item #
1173



## Truck Socket Tools, Rear Wheel

- for professional truck repair
- for more details about each socket please visit our website and enter the respective item#



Item #	Description
5410	Truck Socket Tool, Rear Wheel, 111 mm, BPW 12t
5413	Truck Socket Tool, Rear Wheel, 80 mm, SCANIA front axle
5416	Truck Socket Tool, 8 points, 115 mm, Volvo
5417	Truck Socket Tool, 8 points, 100 mm, SCANIA



## Front Wheel Axles Damper Rod Socket, 28 mm

- suitable for SCANIA rear axles damper rod
- 28 mm special specially shaped socket
- 2-pt.
- 3/4" drive
- for professional truck repair

Item #
5418



## Special Fibreglass Strap Wrench

- for assembly of pulleys
- universally applicable
- 850 mm long strap

Item #	 
1024	



## Belt Pulley Wrench for Ribbed and Flat Drive Belts

- for holding back ribbed drive belt pulleys (for example when loosening belt pulley bolts)

Item #	 
1026	



## Fan Hub Wrenches, Offset

- length 270 mm
- for holding the Visco-clutch drive shaft



Item #	Description
1772	32 mm Fan Hub Wrench, for BMW, Ford etc.
1774	36 mm Fan Hub Wrench, for Ford, Opel, GM



## Fan Hub Wrenches, Offset

- length 270 mm
- for moving the waterpump in order to span the drive belt in OHC-engines



Item #	Description
1682	41 mm Fan Hub Wrench, for Opel + GM
1683	46 mm Fan Hub Wrench, for Opel + GM



## 4-piece Fan Hub Wrench Set

- 32 mm x 270 mm:  
for holding the Visco-clutch drive shaft in BMW and Ford
- 36 mm x 270 mm:  
for holding the Visco-clutch drive shaft in Ford, Opel and GM
- 41 mm x 270 mm:  
for moving the waterpump in Opel and GM in order  
to span the drive belt in OHC-engines
- 46 mm x 270 mm:  
for moving the waterpump in Opel and GM in order  
to span the drive belt in OHC-engines



Item #
1684



## 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



## 300 mm Reaction Wrench, for Offset-Type Pulley

- wrench for safe blocking of  
water pump belt pulleys
- can be used for many VW + Audi engines with A/C
- can also be used for loosening for stucked nuts  
of the water pump belt pulley
- length: ca. 300 mm

Item #
1747



## Fan Service Wrench Kit

- carbon steel
- for holding the Visco-clutch drive shaft in BMW and Ford
- allows the technician to hold the water pump pulley in place  
while loosening the radiator fan
- allows removal of the visco-coupling on the cooling fan

Item #
1763



## V-Belt and Timing Belt Wrench Set, 13-19 mm

- 13, 15, 16, 17, 19mm; length: 460 mm
- with slip guard handle for easy handling
- 12-point finish
- 45° offset ends allow you to reach all areas in the engine bay



Item #	PRO+	CV
1310		

## Tensioner Pulley Wrench Set, E-Profile

- E10-E12-E14-E16-E18, length: 460 mm
- 45° offset ends allow you to reach all areas in the engine bay
- space-saving, flat design
- ideal for screws of belt and tensioning pulley
- with slip guard handle for easy handling



Item #	PRO+	CV
1311		

## Tensioner Pulley Wrench Set, 12-pt 12-19 mm & E-Type E10 - E18

- 12-pt. heads: 12, 13, 14, 15, 16, 17, 18 and 19 mm
- E-Type heads: E10, E12, E14, E16, E18
- long wrench for easy handling



Item #	PRO+	CV
1312		

## VAG Serpentine Belt Tool

- for VAG engines without tensioner pulley
- tensioning is carried out through spring loaded alternator
- wrench allows to press the alternator against the spring tension and change the poly-V-belt without problems
- knurled bolts prevent slipping off



Item #	PRO+
8239	

## Belt Tensioner Wrench, Ford Duratorq engines

- suitable for Ford Duratorq 2.0 / 2.2 (TDDI / TDCI)  
engine codes: D5BA / D6BA / HJBA / HJBC  
FMBA / N7BA / QJBB / QJBA

Item #
8533



## 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 I 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



## Counterholding Wrench Set, 40-220 mm adjustable

- length 400 mm (!)
- ideal for loosening the nut of the fuel injection pump and counterholding of the drive pulley
- incl. 4 pairs of inserts Ø 6 -10 mm, 8 - 11 mm, 10 - 12 mm, 11 - 16 mm to be used with nearly every make



Item #
1714



## Toothed Belt Tensioner Wrench for VW / Audi

- 5-way adjustable and 180° pivotable handle
- can also be used in hard-to-reach areas
- especially for timing belts on 4- and 5 cylinder VAG engines and VW T4 servo pumps
- extra flat type



Item #
8150



## Free Roller Belt Tension Adjusting Key

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

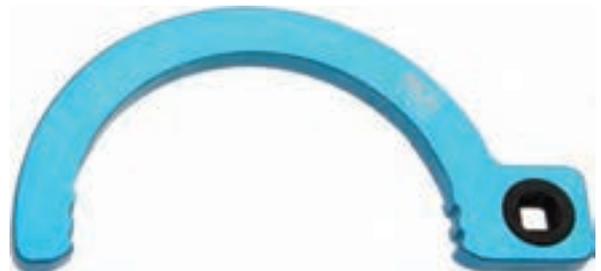


Item #
66725



## Special Wrench for Fuel Filters on HDI Engines

- suitable for Peugeot, Renault, etc., with HDI engines
- 3/8" drive
- for filter caps with Ø 108 mm with 46 grooves



Item #
8290



## Tank Sensor Wrench for VAG

- for dismantling of tank sensor unit
- special shape Ø 99 mm
- length: 390 mm

Item #
8535



## Fuel Filter Wrench

10 3/8

- diameter 109 mm
- especially designed for installing and removing Citroen, Peugeot and Renault fuel filters

Item #
8416



## Fuel Tank Sender Unit Spanner, 25 mm Drive

- all-purpose spanner, adjustable: Ø 75-160 mm
- for removing and tightening the plastic ring on fuel tank sender units

Item #
1001



## Spanner Set for Fuel Tank Senders

- for assembly and disassembly of the plastic retaining rings of the fuel tank sender unit
- 5 different shaped pairs of clamping arms allow use on a variety of fuel tanks
- can be used for diameters of 75-160mm, 80-122mm and 110-170mm
- 24 mm hexagon drive

Item #
8355



## 13-piece Universal Socket and Cap Wrench Set

- continuously adjustable from 49 to 145 mm
- suitable for and 6-pt and 8-pt nuts, groove nuts and round nuts
- 3 pins 6 mm, 8 mm and 10 mm
- side length 45 mm
- chrome plated
- can be used for all special sizes
- 3/4" and 1/2" drive



Item #
1513



## Relay Pliers

- for disassembly and assembly of automotive relays
- ideal for tight plugged relays
- fits on most relays
- fibre glass / plastic handles
- self-opening, spring-loaded



Item #	Description
8312	Relay Pliers, straight
8313	Relay Pliers, 45° offset

## Lock Ring Pliers, 220 mm

- chrome plated, handles insulated
- straight nose
- especially for lock / snap rings on axle and gear box shafts



Item #
530



## Lock Ring Pliers, 225 mm

- chrome plated, insulated handles
- hooked nose
- especially for lock / snap rings in engine or clutch area



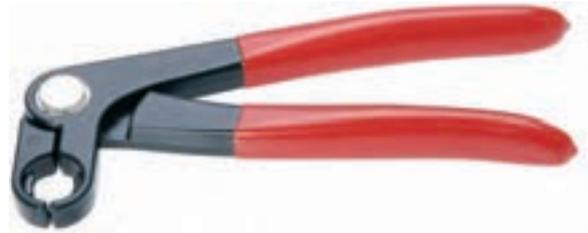
Item #
531



## Removal Pliers for Fuel Lines

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

Item #
66101



## Fuel Hose Clip Loosening Pliers

- for VW-Audi, Fiat, GM, Opel, and others
- for removal and replacement of hose clip connections on in-line fuel filters
- a must-have when changing the fuel filter unit and repairing the engine

Item #
8260



## Pliers for Removing Fuel Lines with Quick Couplers

- for removing fuel lines with quick couplers on e.g. filter units, and fuel tank breather
- suitable for:
  - Fiat, Alfa Romeo, Lancia 1.3, 1.9, 2.4 Diesel
  - Opel Vectra C 1.9, Signum 1.9, Astra H 1.3, Astra H 1.9 Diesel, Corsa C, Combo, Meriva 1.3 Diesel, Corsa B, Astra F, Astra G, Vectra B, Omega B Petrol
  - Chrysler Neon 1.8, Stratus 2.0 and 2.5
  - Renault passenger cars since 1997

Item #
8314



## Release Pliers for Fuel Pipes and Fuel Filters on VW, Fiat, Opel etc.

- for quick and easy separating of gasoline quick locks
- suitable for quick-on fuel filters and similar connections that are separated by pressure on the outer ring
- electroplated surface
- handle dip coated

Item #
8274



## 3-piece Pliers Set for Loosening Fuel Line Connectors

- for Fiat, Ford, Opel, Peugeot, Renault, Citroen, VW

Item #
8012



## Separating Pliers for BMW Oil Coolers

- simplifies the assembly and disassembly of oil coolers
- holding forks bolted, 15 and 22 mm
- distance adjustable (like water pump pliers)

Item #
8289



## Special Exhaust Clamp Pliers, 305 mm

- for expanding of exhaust clamps when changing the exhaust pipe
- suitable for: Citroen, Peugeot and Renault etc.
- 4 locking positions for easy working
- opening width 20-60 mm

Item #
8250



## Special Pliers for BMW Outside Mirrors

- suitable for outside mirror of BMW models: E12, E21, E23, E24, E28, E30, E31, E32, E34, E36, E38 and E39
- removal is very difficult without these pliers
- with spring mechanism and stop setting
- made of carbon steel
- dip-coated handles

Item #
8288



## Bulb Pliers

- allows a non-destructive dismantling and assembly of light bulbs, e.g. in instrument clusters, switch-units, etc.
- specially molded plastic jaws prevent slipping



Item #
8325



## Axle Boot Pliers

- for boots without hooks
- black finish
- 235mm long



Item #
468



## Automatic Center Punch, 15-25 kg

- heavy duty finish
- continuously adjustable



Item #
2085



## Flat Chisel, 295 mm

- with wide safety insulation
- hexagon shaft, Ø 16 mm



Item #
1646



## 6-piece Parallel Pin Punch Set, 3-8 mm, 150 mm long

- 3 - 4 - 5 - 6 - 7 - 8 mm
- hardened, colored shaft



Item #
1651



## 6-piece Center Punch Set

- hardened, tips polished, shaft lacquered
- length 150 mm
- sizes: 3-4-5-6-7-8 mm

Item #
1656



## 6-piece Parallel Pin Punch Set, 2,5-8 mm, 200 mm

- hex. shaft, hardened
- 3 - 4 - 5 - 6 - 8 - 10 mm
- extra long: 200 mm
- in tetron wallet

Item #
1655



## 8-piece Splint Driver Set with Chisel and Center Punch

- hardened hexagonal shaft
- splint driver: 3-4-5-6-8 mm
- 1 flat chisel 15mm
- 1 cross-cut chisel 4mm
- 1 center punch
- length 150 mm
- in tetron wallet

Item #
1658



## 28-piece Chisel and Punch Set

- 5 pin punches made from chrome vanadium  
2.4 x 110 mm, 3.2 x 120 mm, 4 x 125 mm  
5 x 135 mm, 6.5 x 145 mm
- 5 tapered punches made from chrome vanadium  
2.4 x 135 mm, 3.2 x 145 mm, 4 x 150 mm  
5 x 160 mm, 6.5 x 170 mm
- 3 cold chisel made from chrome vanadium  
9.5 x 140 mm, 12.5 x 150 mm, 16 x 165 mm
- 2 center punches made from chrome vanadium  
3 x 125 mm, 4.8 x 150 mm
- 1 chisel punch gauge
- 6 cold chisel made from high carbon steel  
12.5 x 170 mm, 5 x 180 mm, 19 x 200 mm  
18 x 200 mm, 22 x 250 mm, 25 x 250 mm
- 4 cold chisel made from high carbon steel  
3 x 150 mm, 18 x 260 mm, 9.5 x 125 mm, 9.5 x 250 mm
- 2 center punches made from high carbon steel  
145 mm und 375 mm
- in tetron wallet

Item #
1650



## 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



## Valve Shim Remover for DOHC Engines

- suitable for all DOHC engines e.g. Volvo Opel, Ford, Renault ect.
- sliding t-bar for easy handling

Item #
8252



## Valve Spring Tensioning Tool for Peugeot / Citroen

- very useful when working on valves
- suitable for 1.0, 1.1, 1.4, 1.6 petrol
- Peugeot 106, 205, 206, 306, 307, 405 and Citroen Xsara, Berlingo
- for following engines:  
T9M (CDY,CDZ), TU1M (HDZ,HDY), TU3M/Z (KDX,KDY,KDZ)  
TU3JP (KFW,KFX), TU3FJ2 (KFY,KFZ), TU5JP (NFZ)

Item #
8238



## Valve Spring Compressor for OHV Valve Springs

- length 320 mm

Item #
1781



## Valve Spring Compressor, 35-200 mm

- chrome plated
- for large petrol or Diesel engines
- adaptor 25 mm + 30 mm

Item #
1878



## Valve Spring Compressor, 68-130 mm

- chrome plated

Item #
1877



## Valve Spring Compressor, 72-240 mm, for OHC Engines

- pressed steel
- for Toyota and others

Item #
1940



## Special Valve Spring Compressor, 75 mm

- 'overhead'
- nickel plated

Item #
1873



## OHC Valve Spring Compressor

- with reversible legs and automatic valve shaft sealing
- not suitable for valve springs that are set deeply into the engine
- valve springs and valve shaft seals are replaced by the cylinder head

Item #	PRO+	
1777		



## Valve Spring Compressor "Overhead"

- for uncovered valves

Item #	PRO+	
1762		



## 15-piece Air Valve Spring Compressor Set

10  3/8

- operates in connection with 3/8" drive T-type handle or ratchet
- extensive accessories
- prevents the engine valve from falling into the body due to a counterpressure, caused by air delivered via a spark plug-thread

Item #	PRO+
1744	



## Valve Spring Compressor Set, 16-30 mm

- for smaller engines and motorcycles
- 5 interchangeable bearing drivers
- 100 mm C-Clamp
- pressure screws 70 mm, 110 and 120 mm length
- tensioner pieces:
  - Ø 16 mm, 19 mm, 23 mm, 25 mm, 30 mm
- telescopic magnetic pick
- tweezers

Item #	PRO+
1768	



## 13-piece Valve Spring Compressor Assembly Set

- for depressing the valve springs
- allows a changing of the valve stem seals without removing the cylinder head
- pressure hose for filling compressed air into the cylinder
- suitable for M14 and M18 ignition plug threads
- including valve collet mounting tool

Item #
1778



## Universal Valve Spring Tensioner

- for tensioning of valve springs
- suitable for 1 to 12 cylinder engines with two and four-valve technology
- also suitable for inline and V engines from VW, Audi, Ford, Peugeot, Volvo, etc.
- mounting on different breakpoints is possible
- universally usable by a variety of settings
- contains 7 pressure pieces with varying diameter sizes for e.g. following models:
  - Ø 21 mm Peugeot, Citroen HDI
  - Ø 24 mm VW, Audi, Seat, Smart, Opel
  - Ø 25 mm Hyundai
  - Ø 28 mm Toyota, Ford 16V
  - Ø 32 mm Opel, Peugeot
  - Ø 35 mm Renault, Peugeot
  - Ø 42 mm Ford



Item #	Description
8357	Universal Valve Spring Tensioner
8357-1	Adaptor Set for BGS 8357



## Universal Valve Spring Installer and Remover Tool Set

- suitable for assembly and disassembly of valve springs and replacement of valve stem seals on cars, without removing the cylinder head
- valves are closed by pressurized air and can not fall down into the combustion chamber
- works great in narrow space conditions
- can be applied on European, American and Japanese cars, such as BMW, Volvo, Toyota, VAG, Ford, etc.
- especially suitable for:
  - Mercedes Benz engines: M102, M103, M104, M111, M112, M113, M271, M272
  - BMW engines: N42, N52, N62, M54, M52, M56, E38, M60, V8

Item #
8475



## Valve Wedge Tool

- suitable for most car engines with 2-, 3-, 4- or 5-valve technology
- quick and easy assembly of the valve wedges
- minimizes repair costs



Item #
8444



## Precision Feeler Gauges

- rust-proof
- with conical blades
- 100 mm long
- 0,05 - 1,0 mm
- metal handle



Item #	Description
3082	13-Blades Precision Feeler Gauges
3083	20-Blades Precision Feeler Gauges

## 11-piece Special Feeler Gauge

- ideal for measuring the piston ring tolerance
- 0,03 - 0,04 - 0,05 - 0,06 - 0,07 - 0,10 - 0,15 - 0,25 - 0,30 - 0,40 - 0,50 mm



Item #
3135



## 12-Blade Precision Feeler Gauge, bent

- rust-proof
- 0,08 - 0,10 - 0,12 - 0,13 - 0,14 - 0,15 - 0,16 - 0,18 - 0,19 - 0,20 - 0,25 - 0,26 Inch
- 0,203 - 0,254 - 0,305 - 0,330 - 0,356 - 0,381 - 0,406 - 0,457 - 0,483 - 0,508 - 0,635 - 0,660 mm



Item #
3184



## Suction Valve Grinders

- 220 mm
- wooden handle , 2 rubber suction cups



Item #	Description
1740	Suction Valve Grinder, 16x21 mm
1741	Suction Valve Grinder, 28x34 mm

## Valve Lapping Tool Attachment

- facilitates the insertion of valves
- automatic change in direction
- for use with fine grinding paste
- with 8 mm shank
- working speed min. 1000 rpm, max. 1250 rpm
- 2 different suction plates in 18 mm and 24 mm
- 13 mm shaft for attaching the suction cups

PRO+

Item #	Description
1738	Valve Lapping Tool Attachment
1738-1	Rubber Adaptor, 17.3 mm for BGS 1738
1738-2	Rubber Adaptor, 22 mm for BGS 1738



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

- Milling in the following sizes:  
at 45° + 90°:  
30-32,5-35-37,5-40-42,5-50-52,5-55-57,5-60 mm
- 13 stem guide in the following sizes:  
6-6,5-7-7,5-8-8,5-9-9,5-10-10,5-11-11,5-12
- not suitable for hardened valve seats

In metal case.

Item #
1970

PRO+



## Scissor Jack with Cranking Handle, Capacity 1.5t

- minimum height 225 mm / maximum height 360 mm

Item #
1875

PRO



## Hydraulic Jacks

- packed in coloured cardboard box
- item 1870, 1871 and 1974  
with 60 mm spindle length (adjustable)
- item 1872  
with 70 mm spindle length (adjustable)
- item 1973  
with 80 mm spindle length (adjustable)

PRO

CE

Item #	Description
1870	Hydraulic Jack, Capacity 2t., 155-310 mm
1871	Hydraulic Jack, Capacity 3t., 195-390 mm
1872	Hydraulic Jack, Capacity 5t., 215-430 mm
1973	Hydraulic Jack, Capacity 12t., 230-475 mm
1974	Hydraulic Jack, Capacity 20t., 240-470 mm



## Hydraulic Jack, Capacity 10t.

- double ram hydraulic system
- min height: 210 mm
- max. height: 520 mm
- lifting height: 245 mm
- weight: 10.7 kg



Item #
1977



## Miniature Aluminum Jack, 90 kgs

- suitable for decoration and for large vehicle models up to approx. 1:5
- with hydraulic function
- all parts are metal (aluminum) made
- lifting capacity: 90 kg
- length: 200 mm
- max. Height: 145 mm



Item #
11



## Aluminum Hydraulic Floor Jack, 1.5t.

- low weight aluminum construction
- min. height: 125 mm
- max. height: 340 mm
- length: 492 mm
- width: 230 mm
- weight: 9,2 kg
- front castors: Ø 65 mm
- steering castors: Ø 40 mm
- with convenient carrying handle



Item #
2885



## Aluminum Hydraulic Floor Jack, 2.5t., Aluminum-Steel Constuction

- dual lifting piston
- durable and lightweight aluminum-steel construction
- min. height: 100 mm
- max. height: 460 mm
- length: 640 mm
- width: 285 mm
- weight: 26.6 kg
- front castors: Ø 65 mm
- steering castors: Ø 45 mm



Item #
2889



## Turbo-Lifter Floor Jack Flat 2,25 To.

- professional quality
- suitable for cars with low ground clearance
- reduced noise because of nylon castors
- foam coated lever helps to prevent damage to the car

- capacity: 2.25t
- min. height: 90 mm
- max. height: 515 mm
- length: 850 mm
- width: 400 mm
- weight: 54kg

Item #
9242



## Turbo-Lifter Floor Jack 3 To.

- professional quality
- reduced noise because of plastic castors
- foam coated lever helps to prevent damage to the car

- capacity: 3t
- min. height: 130 mm
- max. height: 490 mm
- length: 720 mm
- width: 360 mm
- weight: 41kg

Item #
9240



## Hydraulic Vehicle Positioning Jack, Lifting Capacity 600 kg

- lifting capacity 600 kg
- 145 mm low ground clearance
- from 300 mm width up to max. 650 mm width
- ideal for moving cars in exhibitons, garages etc.



Item #	Description
1975	Hydraulic Vehicle Positioning Jack, Lifting Capacity 600 kg
1975-1	Hydraulic Cylinder for Item# 1975
1979	Spare Wheel for Item# 1975



## Car Positioning Shells, 1 Pair

- capacity / piece: 450 kg
- ideal for maneuvering in small areas
- 4 steel castor wheels
- max. tyre width: 360 mm
- dimensions: 385 x 605 mm
- max. tyre width: 360 mm
- dimensions: 385 x 605 mm



Item #
8386



## 1 Pair of Axle Stands, High End Finish

- heavy duty, 4 leg finish
- 10-step ratchet-type action



Item #	Description
3014	1 Pair of Axle Stands, 2 to/piece, 278-423 mm
3015	1 Pair of Axle Stands, 3 to/piece., 285-420 mm
3016	1 Pair of Axle Stands, 6 to/piece., 420-600 mm

## 1 Pair of Axle Stands, 3 to./piece, 315-485 mm

- blue lacquered finish
- adjustable steel pin (315-485 mm)

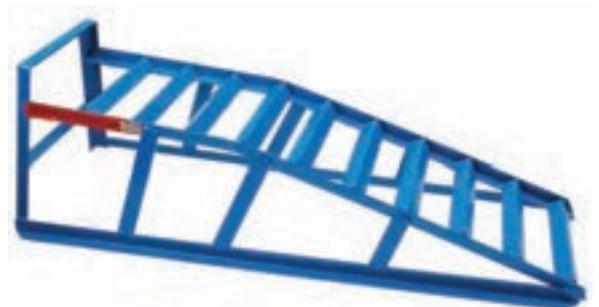


Item #
3002



## Drive-On Ramp, one piece

- extra strong and wide finish
- 840 mm long
- 205 mm wide
- drive-on height: 210 mm,
- load capacity: 2 tons when using two platforms
- for tyres up to 195 mm wide
- to be used by pair only



Item #
3001



## 2 piece Folding Ramp Set

- multi-purpose and mobile
- for loading and 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
- dimensions 580 x 160 x 265 mm (folded)
- overall length 1985 mm (unfolded)
- carrying handle for easy transport



Item #
2999



## Rolling Frame for 4 Hydraulic Vehicle Positioning Jacks BGS 1975

- easy transport and space-saving storage
- 4 castors

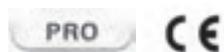


Item #
1976



## Chain Hoist, Lifting Range 2.5 m

- closed body
- minimal amount of manual work needed due to special power transmission even when max. load capacity is reached



Item #	Description
3483	Chain Hoist, Lifting Range 2.5 m, Capacity 1 to.
3484	Chain Hoist, Lifting Range 2.5 m, Capacity 2 to.

## Spark Plug Cleaning Brush, 140 mm long

- compact brush with dense brass fill in wooden stock

Item #
3080



## Spark Plug Pliers, 200 mm, Ring Tip

- ring tip with 16 mm internal diameter
- satin nickel plated
- heavy duty soft grip handles black & red

Item #
1737



## Spark Plug Pliers

- satin nickel plated
- for operating spark plugs which are deep set into engine blocks
- heavy duty soft grip handles - black & red



Item #	Description
1784	Spark Plug Pliers, 200 mm
1739	Spark Plug Pliers, 290 mm



## Long Nose Spark Plug Pliers, 280 mm

- ideal for spark plug assembly



Item #
413



## 2-piece 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



## 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



## 4-piece Glow Plug Connector and Ignition Coil Puller Set

- for damage free removal of ignition coils
- fits VW engines



Item #
68340



## PVC Coated Spark Plug Wrenches, Ball Joint, extra long

PVC coated T-type handle



Item #	Description
143	PVC coated Spark Plug Wrench - Ball Joint, 375 mm long, 16 mm
144	PVC coated Spark Plug Wrench - Ball Joint, 375 mm long, 20.8 mm



## 3/8" Reversible Ratchet, Special Shape

10

- from set BGS Item # 139
- flexible head, 180° adjustable
- fine 72 tooth ratchet
- handle 30° offset
- length 270 mm
- slip guard handle

Item #
139-1



## Flexible Joint Spark Plug Wrench with limited Torque

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



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



Spark-, Glow Plug Tools

## 3-piece Torque Limited Spark Plug Socket Set 14-16-21 mm 10 $\frac{3}{8}$ 12.5 $\frac{1}{2}$

- 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 #	PRO+	CV
7190		

## Spark Plug Sockets, Rubber Inlay

- forged
- chrome plated and polished



Item #	Description
2466	Spark Plug Socket, 3/8" Drive, SW 16 mm
2462	Spark Plug Socket, 1/2" Drive, SW 16 mm
2464	Spark Plug Socket, 3/8" Drive, SW 18 mm
2461	Spark Plug Socket, 1/2" Drive, SW 20.8 mm



## Spark Plug Sockets, magnetic

- forged
- chrome plated and polished
- magnetic inlay



Item #	Description
2469	Spark Plug Socket, magnetic, 3/8" Drive, SW 16 mm
2468	Spark Plug Socket, magnetic, 1/2" Drive, SW 16 mm
2463	Spark Plug Socket, magnetic, 1/2" Drive, SW 21 mm



## Spark Plug Socket, satin chrome plated, Rubber Inlay

- forged
- satin chrome finish



Item #	Description
2471	Spark Plug Socket, satin chrome plated, 3/8" Drive, SW 16 mm
2472	Spark Plug Socket, satin chrome plated, 1/2" Drive, SW 16 mm
2470	Spark Plug Socket, satin chrome plated, 1/2" Drive, SW 20,8 mm



## Spark Plug Sockets with Retaining Spring, 6-point

12.5  1/2

- satin chrome plated
- with retaining spring for spark plugs
- 1/2" and 20 mm hex drive
- length: 65 mm



Item #	Description
2401	Spark Plug Socket, 16 mm, with Retaining Spring
2402	Spark Plug Socket, 18 mm, with Retaining Spring
2403	Spark Plug Socket, 21 mm, with Retaining Spring



## 16 mm Spark Plug Socket, with Rubber, 12-point, Rubber Inlay

10  3/8

- fine knurl for perfect grip
- length 90 mm

Item #
2448




## Spark Plug Sockets with Retaining Spring, 12-point, extra long

- with retaining spring for spark plugs
- length: 250 mm



Item #	Description
2404	Spark Plug Socket, 14 mm, with Retaining Spring, 3/8", 12-pt
2405	Spark Plug Socket, 16 mm, with Retaining Spring, 3/8", 12-pt
2449	Spark Plug Socket, 18 mm, with Retaining Spring, 3/8", 12-pt



## 14 mm Spark Plug Socket, 12-point, 3/8", Length 90 mm

10  3/8

- satin chrome finish
- with extra big knurl for better grip

Item #
2446




## 14 mm Spark Plug Socket, with Magnet, 12-point, 3/8", Length 250 mm 10 3/8

- satin chrome finish
- spark plug is held by a magnet
- with extra big knurl for better grip



Item #
2447



## Spark Plug Socket, 14 mm, with Retaining Spring

- with retaining spring for 14 mm spark plugs
- 3/8" and 17 mm hex drive
- 12-pt
- length: 65 mm
- outside diameter: 20 mm
- black finish



Item #
2400



## Ignition-Firing Interval Tester for Classic / Vintage Cars

- for checking the ignition voltage



Item #
3030



## Spark Plug Thread Repair Kit M14

- 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 #	Description
149	Spark Plug Thread Repair Kit M 14
149-11	Replacement Threaded Sleeves M14 x 11 mm for BGS 149, 5 pieces
149-16	Replacement Threaded Sleeves M14 x 16 mm for BGS 149, 5 pieces
149-19	Replacement Threaded Sleeves M14 x 19 mm for BGS 149, 5 pieces
149-1	M14 Taps for BGS 149

## Spark Plug Thread Repair Sets

- suitable for repair of spark plug threads
- easy to use
- contains special taps with 6-point-drive and 4 threaded bushes, lengths 9.5 - 11.5 - 12.7 and 19 mm



Item #	Description
165	Spark Plug Thread Repair Kit M10 x 1.00
166	Spark Plug Thread Repair Kit M12 x 1,25
150	Spark Plug Thread Repair Kit M14 x 1.25



## Double Offset Ratchet Wrench for Glow Plugs, 8 and 12 mm

- for installing and removing glow plugs
- suitable for VW, Audi, Renault diesel engines
- for glow plugs between engine and diesel injector pump
- double-hexagon profile
- 8 mm for operation of conductor rail screws
- 12 mm for operation of glow plugs
- length: 300 mm

Item #
8264



## 6-piece Joint Socket Set for Glow Plugs 3/8"

- 3/8" drive, sizes 8-9-10-12-14-16 mm
- glow plugs are held by internal rubber ring
- with screwed universal joint, adjustable
- total length 75 mm / 80 mm (14 + 16 mm)
- perfect for jobs in hard-to-reach areas
- single sizes available under Art. 2980-2985



Item #	Description
2990	6-piece Joint Socket Set for Glow Plugs 3/8"
2980	Joint Socket for Glow Plugs, 3/8" Drive, 8 mm
2981	Joint Socket for Glow Plugs, 3/8" Drive, 9 mm
2982	Joint Socket for Glow Plugs, 3/8" Drive, 10 mm
2983	Joint Socket for Glow Plugs, 3/8" Drive, 12 mm
2984	Joint Socket for Spark Plugs, 3/8" Drive, 14 mm
2985	Joint Socket for Spark Plugs, 3/8" Drive, 16 mm



## 6-piece 3/8" Glow Plug Socket Set 8-9-10-12-14-16 mm x 150 mm

- screwed universal joint
- with rubber insert to hold the glow plug sockets

Item #
2986



## 8-piece Glow Plug Installation Kit

10  3/8

- with torque limited ratchet (18 Nm)
- extension bar 100 mm
- 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 Set specifically for Fiat / Alfa / Lancia

- for removal of glow plugs with fixed connector cable, built into latest Fiat, Alfa and Lancia models
- slotted sockets 8 - 9 - 10 mm
- 6-pt drive



Item #	
7191	

## Torque Limited Glow Plug Sockets 8-10-12 mm

10  3/8

- 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	

## 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	

## 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



## 1/4" Twist Socket Set for Glow Plug Electrodes

6.3 1/4

- for gripping the electrodes together with Glow Plug Removal and Thread Repair Set BGS 8297
- includes 2.6 - 3.2 - 3.5 - 4.5 - 6.5 - 8.25 mm sockets



Item #	Description
5290	6-piece 1/4" Turn Off Socket Set for Glow Plug Electrode
5290-2.6	1/4" Turn Off Socket 2.6 mm, for Glow Plug Electrode from BGS 5290
5290-3.2	1/4" Turn Off Socket 3.2 mm, for Glow Plug Electrode from BGS 5290
5290-3.6	1/4" Turn Off Socket 3.5 mm, for Glow Plug Electrode from BGS 5290
5290-4.5	1/4" Turn Off Socket 4.5 mm, for Glow Plug Electrode from BGS 5290
5290-6.5	1/4" Turn Off Socket 6.5 mm, for Glow Plug Electrode from BGS 5290
5290-8.25	1/4" Turn Off Socket 8.25 mm, for Glow Plug Electrode from BGS 5290



## Glow Plug Shaft Cleaning Brush

- for cleaning glow plugs manholes
- it is recommended to clean manholes before replacing the glow plugs
- length: 105 mm, Ø 9 mm
- total length: 310 mm



Item #
8561



## Internal Spark Plug Rethreader Tool

- for cleaning and regrooving of spark plug threads in the cylinder head
- length 270 mm, also suitable for cylinder heads with deep-seated spark plugs
- 13 mm 6-pt. drive



Item #	Description
8375	Internal Spark Plug Rethread Tool, M12
8376	Internal Spark Plug Rethread Tool, M14

## Ignition and Glow Plug Thread Cleaner

- for cleaning and recutting the threads in the cylinder head
- prevents conglutination of plugs
- makes it easier to renew plugs
- made from hardened and tempered steel
- includes following reamers:
  - M8 x 1.00 - 117 mm length
  - M10 x 1.0 - 117 mm length
  - M12 x 1.25 - 140 mm length
  - M12 x 1.25 - 268 mm length
  - M14 x 1.25 - 140 mm length
  - M14 x 1.25 - 268 mm length
  - M18 x 1.50 - 89 mm length



Item #
8503



## Glow Plug Removal and Thread Repair Set

- simplifies the assembly and disassembly and professional repair of glow plug threads
- suitable for most injectors
- assembly and disassembly of glow plugs and repair glow plug threads
- extractor for fixed glow plugs
- step drill to drill out damaged glow plugs 7 x 5.5 mm and 9 x 5.5 mm
- taps M8 x 1.0, 10 x 1.0 and 1/4"-28UNF for repairing glow plug threads
- tap holder
- E10 socket



Item #
8297



## Glow Plug Bore Reamer Set

- 4 adaptors and 3 reamers
- cleaning is recommended before installation of new glow plugs
- suitable for glow plug threads M8 - M10 - M12
- 145 mm drive shaft, knurled for hand use
- can also be used with 14 mm hexagon socket or 1/4" square end
- material: CR-MO + S45C Steel



Item #
8447



## Spring Plates Pliers for Drum Brake

- for removal of spring plates on brake shoes
- self-opening



Item #  
8642

PRO +

## Brass Caliper Brush

- particularly suitable for cleaning aluminum parts such as on brakes



Item #  
8660

PRO



## 6-piece Line Ratchet Wrench Set

- suitable for working on pipe screws eg. brake lines, servo lines, oil cooler pipes, etc.
- ratchet function when moving the wrench head
- sizes: 10 - 11 - 13 - 17 - 19 - 22 mm
- material: head made of Cr-Mo, black finished, handle made of hardened steel, chrome plated



Item #  
8665

PRO +

## 28-piece Punch Set for Brakes

- includes following diameters:  
2.4 - 2.8 - 3.2 - 3.6 - 4.0 - 4.4 - 4.8 - 5.2  
5.6 - 6.0 - 6.4 - 6.7 - 7.1 - 7.5 - 7.9 - 8.3  
8.7 - 9.1 - 9.5 - 9.9 - 10.3 - 10.7 - 11.1  
11.5 - 11.9 - 12.3 - 12.7 - 13.5 mm
- length: 123 mm
- material: carbon steel
- without handle (straight type)
- in metal holder
- with painted tip



Item #  
2029

PRO +

## Air Brake Bleeding and Oil Extractor Unit

- for a clean oil change
- usable for engine, transmission, rear axle oil and other non-corrosive liquids
- 5 l container for accommodating the fluids
- suitable for oil extraction on all Smart models and also for all other vehicles when an oil change is performed without using a car lift
- with a special brake breather hose and 2 extraction hoses
- working pressure: 4.9 to 11.9 bar
- air connection: 1/4"



Item #
3157



## 2-piece Professional Brake Bleeder Set

- for quick and easy brake bleeding
- can be used by one person only
- large 1.5 l canister with aluminium nozzle and clamp for compressed air (lets you keep both hands free)
- protects the main brake cylinder as no pumping required
- can also be used for hydraulic clutches
- 1000 mm silicone hose guarantees a long product life time
- accurately fitting rubber adaptor for the bleeding nipple
- 1 l canister with shut-off valve and universal clamp for refilling the brake system



Item #	Description
8080	2-piece Professional Brake Bleeder Tool Set
8080-31	Hose with blue Bleeding Adaptor from BGS 8080
8080-31-1	Blue Bleeding Adaptor for 8080-31 from BGS 8080
8080-32	Hose with Plastic Adaptor from BGS 8080
8080-32-1	Plastic Adaptor for Hose 8080-32 from BGS 8080

## Brake Fluid Refill Bottle, 1l

- for refilling brake fluid while brake bleeding
- with valve and clamp
- container size: 1 liter
- also spare parts for BGS 8080



Item #
8731



## Brake Disc Caliper

- for measuring the brake disc thickness, tire tread depth etc.
- material: aluminum
- dimensions: 182 x 115 x 13 mm

Item #  
8689



## 8-piece Brake Bleeder Wrench Set

- for bleeding brake systems without removing the wheels
- ratchet wrench makes loosening and tightening easy
- hose remains on bleeding screw while loosening and tightening
- 6 special sockets:
  - 9 x 29 mm - 9 x 75 mm
  - 10 x 29 mm - 10 x 75 mm
  - 11 x 29 mm - 11 x 75 mm
- incl. bleeding hose with 4 mm inner diameter

Item #  
66512



## Brake Piston Resetting Tool for Floating Calipers

- allows quick and easy push back of brake pistons on front and rear axles floating calipers without hand brake function
- suitable for most car models
- 41 mm pressure plate diameter
- size of support plate: 101 x 44 mm
- dimensions: 195 x 195 mm

Item #  
8502



## Pressure Plate for BGS 1116, 1119, 1127, 1104, 1109, 1110

Item #  
11000



## Brake Piston Adapter for Ford, Renault, Volvo

- 3 pin type
- suitable for brake piston wind-back tool sets BGS 1109, 1110, 1116, 1119, 1127, 1117, 1104
- suitable for e.g. the following vehicles:
  - Ford Focus, C-Max, S-Max
  - Renault Scenic, Megane
  - Iveco Daily
  - Volvo V70

Item #  
1119-1



## 12-piece Puller Set, 2- and 3-Leg

- pulling depth up to approx. 140 - 210 - 280 mm, pulling width: 40 mm up to max. 135 mm
- puller legs are suitable for 2- and 3-leg crossbars (included)
- free moving legs allow internal and external pulling operations
- hardened pulling feet (width approx. 33 mm, thickness approx. 5.2 mm)
- spindles with fine thread



Item #
7762

PRO +

## 26-piece Bearing and Bushing Tool Set

- comprehensive kit for fast and effective removal and installation of wheel bearings & suspension bushes
- reduces the possibility of damaging the bearing and housings
- supplied with four stepped end plates
- 4 screws: M10 x 1.5 - M12 x 1.5 - M14 x 1.5 - M16 x 1.5 mm, 450 mm long
- plates and sleeves can also be used in a common workshop press
- sleeve wall thickness: 5 mm
- sleeve height: 94 mm
- sleeve outer diameter: 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82 mm
- counterholding plates : Ø 83 x 20 mm

PRO +



Item #	Description
67302	26-piece Bearing and Bushing Tool Set
67302-M10	Spindle M10 from BGS 67302
67302-M12	Spindle M12 from BGS 67302
67302-M14	Spindle M14 from BGS 67302
67302-M16	Spindle M16 from BGS 67302

## Silent Block Tool Set for BMW

- for renewing rubber suspension bushings
- suitable for BMW models:
  - 1 Series: E81, E87
  - 3 Series: E36, E46, E83, E90, E91, E92, E93
  - 5 Series: E60, E61
  - 6 Series: E63, E64
  - 7 Series: E38, E65, E66, E67
  - 8 Series: E31
  - Z4 Series: E85, E86
  - MINI COOPER S: R53



Item #
8579

PRO +

## Ball Joint Extractor, 23 mm

- opening: 23 mm
- max puller width: 45 mm
- drive: 19 mm 6-point
- suitable for impact wrench use



Item #
67216

PRO + CROMO

## Ball Joint Extractor, 62 mm

- opening: 62 mm
- max puller width: 100 mm
- 3/4" square drive
- suitable for impact wrench use



Item #
67218

PRO + CROMO

## Mercedes Pressure Piece Ball Joint Tool Set for BGS 8293

- this extension tool allows a disassembly and assembly of the ball joints
- suitable for Mercedes W211, W220, W230
- to be used as OEM 2113230068
- material: S45C steel
- works with BGS 8293



Item #
8293-1

PRO + CROMO

## Pin Wrench for Suspension Joints, Citroen / Peugeot

12.5  $\square$  1/2

- for loosening / tightening of suspension joints
- suitable for models:  
Citroen BX (9/82-94), C5, Xantia  
Peugeot 305 (7/82-90), 405 (6/87-), 406, 605, 607 etc.



Item #
5422



## Silent Block Tool for Skoda Fabia, VW Polo

- for proper and quick installation of rubber bushings (silent blocks) on front axle brackets
- suitable for Audi A2, VW Polo IV 9N (02-05), Skoda Fabia I, Seat Ibiza 6L (02-06) and Cordoba from 2002
- material: S45C steel
- to be used as OEM 3062, 3253/8, T10037



Item #
8254



## Driveshaft Pulling Tool Set

- for assembly / retraction of drive shafts
- universally usable by rich adaptation options
- suitable for e.g. the following vehicles:  
VAG, Mercedes, BMW, Porsche, Peugeot, Renault, Opel / Vauxhall
- includes the following tools:
  - flange nut
  - sleeve, OD 39 mm, ID 29 mm
  - sleeve, OD 46 mm, ID 36 mm
  - spindle M14x1.5 outer thread
  - spindle M16x1.5 inner thread
  - spindle M16x1.5 outer thread
  - spindle M18x1.5 inner thread
  - spindle M20x1.5 inner thread
  - spindle M22x1.5 inner thread
  - spindle M24x1.5 inner thread
  - spindle M27x1.5 inner thread
  - spindle M30x1.5 inner thread



Item #
8262



## Axle Tolerance Testing Tool

- for locating of defectives on axles, such as defective ball joints, wheel bearings, etc.
- suitable for fault diagnosis with loaded axle (as in normal operation)
- testing is done by visual, acoustical and tactile sense verification
- especially suitable when car is mounted on 4-post lift but also usable on the workshop floor
- 1/2" drive for use with sliding bar
- overall length: 355 mm
- dimensions of the plastic coating:  
Ø 60 x length 265 mm



Item #
8633



## Shock Absorber Tool Kit

- for shock absorber nuts
- suitable for nearly all vehicles, incl. Japanese gas shock absorbers
- includes:
  - extension socket
  - rotating plate with 39 and 34 mm outer 6-pt.
  - rotating plate with 60 mm inner 6-pt.
  - 90° rotation plate, universal
  - 120° rotation plate for Japanese cars
  - 4 holding plates with 4-pt. head
  - 4 holding plates with round head
  - 4 screws M6 x 18
  - 4 mm int. hex. wrench
  - 3 socket for grooved nuts with 22 mm 6-pt. drive in following sizes:
    - 10.5 mm inner diameter with 3.5 mm pin
    - 12.5 mm inner diameter with 3.5 mm pin
    - 14,5 mm inner diameter with 3.5 mm pin

Item #
8679

**PRO +**

## Camber Adjusting Tool

- allows one-person adjusting
- reduces the required time
- pressure width 135 to 175 mm
- 22 mm 6-edge spindle
- 3 spindle lengths for a wide range of applications
  - 75 mm for Seat Toledo - VW Jetta, Golf, etc.
  - 85 mm for Seat Cordoba - VW Polo 95>
  - 115 mm for Chrysler Voyager, etc.

Item #
8700

**PRO +**

## 4-piece Subframe Positioning Bolt Set for VW T5

- for precisely aligned mounting of the subframe
- needed e.g. for replacing the rubber bushings and all jobs for which the auxiliary frame (subframe) is removed
- suitable for VW T5 from 2004
- to be used as OEM T10227

Item #
8715

**PRO +**

## Wheel Hub Puller for Ford Transit

- suitable for removal and installation of brake discs on front and rear wheel drive vehicles
- external thread M24 x 2.0
- incl. adapter for sliding hammer, internal thread M24x2.0 to internal thread M20x1.5
- to be used as OEM 204-345B



Item #
7776-1

PRO +

## 34-piece Bearing Mounting Tool Set, Nylon

- for non-damage mounting of bearings and sealing rings
- includes 34 nylon and 3 metal mounting sleeves
- suitable for most bearings
- includes the following pressure piece sizes:
  - 10-26 mm / 10-30 mm / 10-35 mm
  - 12-28 mm / 12-32 mm / 12-37 mm
  - 15-32 mm / 15-35 mm / 15-42 mm
  - 17-35 mm / 17-40 mm / 17-47 mm
  - 20-42 mm / 20-47 mm / 20-52 mm
  - 25-47 mm / 25-52 mm / 25-62 mm
  - 30-55 mm / 30-62 mm / 30-72 mm
  - 35-62 mm / 35-72 mm / 35-82 mm
  - 40-68 mm / 40-60 mm / 40-90 mm
  - 45-75 mm / 45-85 mm
  - 50-80 mm / 50-90 mm
- pressure disc sizes: 45-100 mm / 50-110 mm

Item #
8670

PRO +

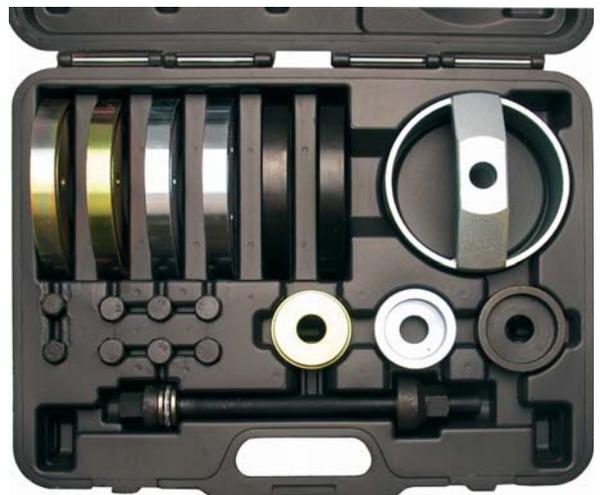


## Wheel Bearing Hub Unit Tools for VAG 62, 66, 72 mm

- suitable for following VAG models:
  - Audi A2
  - VW Lupo - Polo - Fox
  - Seat Ibiza
  - Skoda Fabia
- fits on 62, 66 and 72 mm bearing unit
- works direct on the vehicle
- minimizes the working time
- simple and safe handling
- can also be optionally used with a workshop press
- includes following tools:
  - 1 universal pressure bell
  - 3 pressure pieces
  - 1 spindle unit with ball bearing
  - 2 half shells (black) for 72 mm bearing
  - 2 half shells coupling (chrome), for 66 mm bearing
  - 2 half shells coupling (anodized), for 62 mm bearing

Item #
6250

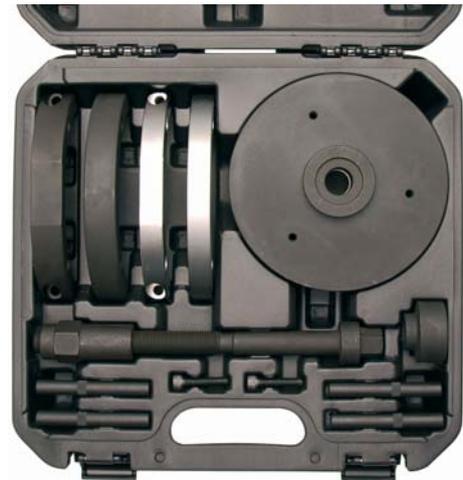
PRO +



## Wheel Hub Bearing Unit Tool for Ford, Volvo, Mazda, 78 mm

- facilitates assembly and disassembly of front wheel hub-bearing unit
- suitable for following models:  
Ford Focus 2 as of 2004, C-Max as of 2003  
Volvo C30 as of 2006, C70 Cabriolet as of 2006,  
S40 as of 2004, V50 as of 2004,  
Mazda 3 (BK) 1.4 / 1.6 / 1,6 Turbo as of 2003
- contents:
  - 1 pressure plate
  - 4 pressure bolts
  - 2 screws
  - 1 pair of disassembly shells
  - 1 disassembly pressure piece
  - 1 pair of mounting shells
  - 1 mounting pressure piece
  - 1 high-strength, ball bearing spindle

Item #  
8708



## Wheel Bearing Tool Set for Mercedes-Benz

- for replacing wheel bearings on Mercedes cars
- suitable for following models:  
190 (W201), A-Class (W168, W169),  
B-Class (W245), C-Class (W202, W203),  
E-Class (W210, W124), M-Class (W163, W164),  
S-Class (W140), V-Class (W639)
- includes all tools for disassembly and assembly of wheel bearings

Item #  
8737



## Wheel Bearing Tool Set for Audi

- for replacing wheel bearings on VAG models
- suitable for following models:  
Audi A3 (8L), A4 (B5), A4 Quattro (B6) Rear Axle  
Audi A6 (4A, 4B), A8 (4D, 4E), TT (8N, 8y)  
VW Polo (6N), Golf (II, III, IV), Passat, Sharan, T4
- includes all tools for disassembly and assembly of wheel bearings

Item #  
8738



## Wheel Bearing Tool Set for Peugeot / Renault / Citroen

- for replacing wheel bearings on Peugeot, Citroen, Renault models
- includes all tools for disassembly and assembly of wheel bearings



Item #
8739

PRO+

## Wishbone Bushes Tool for Mercedes- Benz W210

- for renewing the rear control arm bushing
- suitable for Mercedes W210 (E-Class) models



Item #
8733

PRO+

## Wishbone Bushing Tool for Mercedes-Benz W410

- for renewing the rear control arm bushing
- suitable for Mercedes W140 (S-Class) models



Item #
8734

PRO+

## Wishbone Bushes Removal Tool for Mercedes-Benz

- for renewing the rear control arm bushing
- suitable for all Mercedes W170 (SLK) and W202 (C-Class) models

Item #
8735

**PRO +**

## Wheel Hub Tool for Audi, 90 mm

- facilitates assembly and disassembly of front wheel hubs
- for use with workshop hydraulic press
- suitable for Audi models:
  - A4 / S4 QuattroAvant 2001-2008
  - A6 / S6 QuattroAvant 2002-2005
  - A8 / S8 QuattroAvant 2004-2007, R8 since 2007
- 1 pressure plate
- 5 push pins
- 1 pair of disassembly shells
- 1 disassembly pressure piece
- 1 mounting sleeve

Item #
8709

**PRO +**

## Steering Tool Set

- allows easy mounting of rubber bearings and bushings
- suitable for most cars, SUV, Pick Ups, etc.
- contents:
  - 10t hydraulic cylinder
  - 2 pointed bushes, length: 28 mm and 95 mm
  - 4 fixing spindles, M10x1.5 - M12x1.75 - M14x2.0 - M16x2.0
  - 4 pulling spindles, M10x1.5 - M12x1.75 - M14x2.0 - M16x2.0
  - 22 short bushes, length: 40mm
  - 22 long bushes, length: 110mm
- Dimensions of the bushings (O.D. x I.D.)
  - 26x18, 28x20, 30x22, 32x24, 34x26, 36x28
  - 38x30, 40x32, 42x34, 44x36, 46x38, 48x40
  - 50x42, 52x44, 54x46, 56x48, 58x50, 60x52
  - 62x54, 64x56, 66x58 und 68x60 mm

Item #
8683

**PRO +**

## 21-piece Installation Disc Set, XXL

- suitable for mounting bearings and sealing rings
- particularly useful when used with a hydraulic press
- this kit includes 17 mounting pads  
Ø 70 to 150 mm (5 mm steps)
- 273 mm metal handle for use with a hammer
- material: carbon steel



Item #
8736

PRO +

## Rear Axle Bush Tool for BMW 36, E46, E85

- for easy and gentle replacing of rear axle bushes on BMW models E36, E46, E85
- consists of disassembly and assembly pressure pieces, ball bearings, high-strength spindle



Item #
8776

PRO +

## Rear Axle Bushings Tool for BMW 5 & 7 series

- for renewing the rear ball joint bushes
- suitable for 5 Series E39, 7 Series E38
- includes:
  - high-strength spindle
  - hexagon nut with collar
  - dismantling pressure sleeve
  - dismantling holding sleeve, with bearing
  - assembly holding sleeve
  - mounting pressure sleeve



Item #
8486

PRO +

## Rear Axle Bush Tool for Renault Laguna II

- for removal, installation and alignment of rear axle bushes on Renault Laguna II
- material: S45C steel, zinc finish

Item #
8770

PRO +



## Trailing Arm Bushing Tool for BMW

- prevents damage to new bushings
- disassembly of the trailing arm is not required
- simplifies installation and reduces installation time
- contains: disassembly and assembly pressure piece, counter holding sleeve, counter holding sleeve plate, mounting ring and tool for biasing the bushing
- suitable for BMW (after 2007) E85, E89, E92

Item #
8716

PRO +



## Front Wheel Bearing Puller for Ford Transit as of 2006

- for removal of the front wheel bearing unit and for removing the wheel hub
- allows renewing of the camp without replacing the wheel hub
- consisting of:
  - puller with retaining key
  - screw set (5 pcs.)
  - pressure plate (large)
  - pressure plate (small)
  - spindle with hex. drive

Item #
8707

PRO +



## Ball Bearing Separator

- drop forged
- chrome finish

Art. 7741

- bolt size: Ø 9,5 x 125 mm
- bolt thread: 3/8" x 24 UNF
- body thread: 3/8" x 16 UNC

Art. 7749

- bolt size: Ø 12,7 x 135 mm
- bolt thread: 1/2" x 20 UNF
- body thread: 3/8" x 16 UNC

Art. 7742

- bolt size: Ø 16 x 165 mm
- bolt thread: 5/8" x 18UNF
- body thread: 1/2" x 13UNC

BGS 8767

- bolt size: Ø 19 mm, 260 mm
- bolt thread: 3/4" x 16 UNF
- body thread: 5/8" x 11 UNC

BGS 8768

- bolt size: Ø 25.5 mm, 350 mm
- bolt thread: 1" x 12 UNF
- body thread: 3/4" x 10 UNC

PRO +



Item #	Description
7741	Ball Bearing Separator, 30-50 mm
7749	Ball Bearing Separator, 50-75 mm
7742	Ball Bearing Separator, 75-105 mm
8767	Ball Bearing Separator, 100 - 150 mm
8768	Ball Bearing Separator, 150 - 200 mm

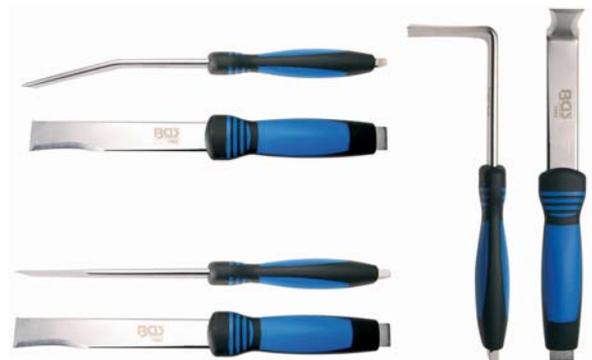
## 3-piece Body Cutting Chisel Set

- with handle for safe and fatigue-free working
- flat chisel with oval surface
- 15 ° angled chisel with oval surface
- 90 ° angled chisel with oval surface
- regrindable surface
- hardened special steel

PRO +



Item #	Description
1690	3-piece Body Cutting Chisel Set
1691	Body Cutting Chisel, straight
1692	Body Cutting Chisel, angled 15°
1693	Body Cutting Chisel, angled 90°



## Spot Weld Cutter Set, Tungsten Carbide Steel

- especially designed for spot weld drilling in most materials
- drills contained: Ø 6.5 mm, 8.0 mm and 10.0 mm
- 3 cutting edges (one more than usual) facilitate and speed up drilling
- centering tip prevents a walking of the drill
- especially suitable for body repair shops

Item #
5080

PRO +



## Spot Weld Cutter Set, 5% Cobalt Steel

- especially designed for spot weld drilling in most materials
- drills contained: Ø 6.5 mm, 8.0 mm and 10.0 mm
- special HSS Cobalt steel prevents dulling by overheating
- centering tip prevents a walking of the drill
- especially suitable for body repair shops

Item #
5081

PRO +



## 4-piece Dashboard Protector

- to protect the dashboard when e.g. removing the windshield
- includes:
  - protection panel, slightly rounded lip, L205 x B265 mm
  - protection panel, straight, L205 x B265 mm
  - protection panel, slightly rounded lip, L305 x B455 mm
  - protection panel, straight, L305 x B455 mm
- with handle

Item #
7685

PRO +



## Painting Stand

- 4 support arms movable in height and position
- rotatable mounting axis for the support arms
- 2 swivel casters for easy positioning
- dimensions: 1420 x 900 x 1110 mm



Item #
8543

PRO

## Window Cutting Wire

- for cutting out glued windows
- braided from three stainless steel wires
- length: 25 m
- thickness: 0.9 mm
- suitable as replacement wire for e.g. BGS 8004



Item #
8583

PRO +



## Front Wiper Repair Kit, VW Golf IV, Audi A3, Seat, Skoda

- for repairing rusted wiper arm shafts
- replacement of wiper arm mechanism is not required
- saves repair costs



Item #
8631

PRO +

## VAG Rear Window Washer System Set

- minimizes repair coast and allows professional drilling out of nozzle residues from the wiper arm shaft and of brass pipe out of wiper motors
- includes:
  - guid bushing for mounting on wiper axle
  - 3 drills, of wich 2 with guide support
  - 10 plastic pipes as brass pipe replacement
- suitable for following VAG models:  
VW Golf IV, Passat, Sharan, Audi A4,  
Ford Galaxy, Seat Alhambra



Item #
8632

PRO +

## 10-piece Hook Set for Dent Repair Rods

- for supporting of dent rods
- can be used with BGS 1639, 1642 and 1659
- material: Inox

Item #
8713



## 4-piece Plastic Chisel Set

- suitable for removing of e.g. panels, glued trim parts and wheel weights
- flat and round head chisels, 127 and 175 mm length
- handle end is designed to be used with a hammer

Item #
368



## 27-piece Trim Wedges and Scraper Set

- for removal of trim, paneling, etc.
- allows a damage-free disassembly, even on painted surfaces
- wide range of application through different scraper and removal tool profiles, such as:
  - scraper with trim guide
  - slotted lever, angled and straight
  - disassembly lever, angled and straight, in different widths

Item #
8611



## Fender Flaring Tool

- for expanding the fender size
- is often required when lowering the vehicle and changing the wheel-tire combination
- telescopic boom arm with 180° swiveling pressure roller
- suitable for mounting on 4- and 5- bolt wheel hubs
- fits on cars with pitch circle diameters from 95 to 120 mm
- weight: 7500g

Item #
3525



## Flaring Pliers, 310 mm

- for edge coiling of sharp fender inner edges, preventing damage to tires when cushioning
- jaw protectors for smooth application
- is required for e.g. lowered vehicles or when changing the wheel / tire combination
- a dismantling of wheels can be omitted in most cases

Item #
8682



## Double Rubber Suction, Ø 115 mm, aluminum

- is required for lifting and mounting of windshields
- maximum capacity: 80 kgs
- suction cup diameter: 115 mm
- toggle lever suction device

Item #
7993



## Triple Rubber Suction, Ø 115 mm, aluminum

- is required for lifting and mounting of windshields
- high load capacity of 95 kg
- suction cup diameter: 115 mm
- toggle lever suction device

Item #
7996



## Vacuum Dent Repair Kit with Slide Hammer (with Hand Pump)

- when using the pump the hammer creates a vacuum and causes the vacuum pad firmly holds on to the body
- dents can now easily be removed by working the sliding hammer
- independent of compressed air systems
- 3 replaceable strainers:  
Ø 70 mm, Ø 100 mm, Ø 125 mm

Item #
8703



## 3-piece Gap Gauges

- useful for body work such as fitting doors, fenders and other body parts
- includes 3 gauges with 10 gauge blades each, 1 mm thickness



Item #
8763

PRO +

## Dent Removal Pen

- for pushing out small dents, e.g. hail damage, etc.
- made of plastic, front rounded



Item #
8684

PRO +

## Piercing Awl

- for piercing rubber, plastic, etc.
- hardened tip
- plastic handle, black
- length: 175 mm
- shaft length: 70 mm



Item #
67203

PRO +



## 11-piece Fixing Clamp Set

- for fast and easy fixing during glueing and welding of sheet metal parts
- for time- and cost-saving body work
- the economical alternative to conventional locking pliers with advantage in size
- re-adjustment of sheet metal is possible at any time
- pliers in an angled shape allow access even in difficult places such as door pillars, quarter window
- includes 10 universal steel clamps
- clamp opening: 0 to 5 mm



PRO +

Item #	Description
8774	11-piece Fixing Clamp Set
8774-1	Fixing Clamps from BGS 8774, 10 pcs.

## Plastic Repair Kit, cordless

- for repairing cracks in plastic parts bigger than 1 mm thickness
- suitable for plastic material with max. 40% glass fiber content
- for repairing plastic bumpers, panels, brackets, etc.
- includes repairing clamps in V-shape 0.6 mm , U-shape 0.6 mm and U-shape 0.8 mm
- this tools heats up the clamps to a temperature between 100 and 200° C so that they can connect the breaking points and bring back stability
- can also be used for enforcing strongly used areas
- includes: heating unit, charger, battery



Item #
868



## Windshield Carrying Tool Cart

- very useful for transporting and storing screens and tools
- 3 shelf levels, plate size: 500 x 380mm
- dimensions:
  - height: 940 mm
  - width: 685 mm
  - depth: 435 mm
- 4 rubber pads for safe storing of windshield
- 4 swivel castors, 2 with brakes
- 2 handles
- made of lightweight plastic
- max. capacity: 50 kg



Item #
8789



## 8-piece Hook Wrench Set, 35 - 120 mm

- suitable for DIN 1804 nuts and DIN 981 bearing nuts
- for diameters: 35-60, 60-90, 90-120 mm
- hook and pin lug are interchangeable



Item #
8542



## Oxygen Sensor Wrench Set

- special design for installing lambda probes
- wrenches with different offset angles for difficult-to-access lambda probes
- sizes 19 and 22 mm
- material: chrome vanadium
- satin chrome finish

Item #
8701

PRO +



## Oxygen Sensor Wrench, 22 mm

- short, handy type
- suitable also for use with extension tube

Item #
8605

PRO +

CV



## Diesel Filter Special Socket, 27 mm

- length 44 mm
- milled, D17 mm x W20 mm
- suitable for 2.0/2.2 HDI engines on Citroen, Ford, Lancia, Land Rover, Volvo, Peugeot

12.5  1/2

Item #
8630

PRO +

 CV



## Wheel Stud Repair Tool, M12 + M14

- for restoring of wheel stud threads, sizes: M12x1.25 - M12x1.5 - M14x1.5
- unique design allows the two halves of the thread restorer to be fitted on the good thread and wound back over the damaged thread, which is normally at the end of the stud
- consisting of 3 thread restoring tools and special holder

Item #
8691

PRO +



## 10-piece Rim Lock Dismantling Tool Set

- allows professional removing of rim locks
- "open" almost all rim locks without damaging the rim
- conical dismantling sleeves for high power transmission
- the kit includes:
  - dismantling sleeves:
    - Ø30.9 - Ø30.0 - Ø31, 8 - Ø28, 9 - Ø28.0 - Ø27.0 - Ø26.0 - Ø28.8 mm, 60 mm long
  - 2 dismantling mandrels
- made of S45C and SCM440 material



Item #
8656



## Fuel Tank Wrench Set for Mercedes-Benz

- for loosening and tightening the fuel sensor
- includes 3 fuel sensor removal tools for the following models
  - Mercedes 129, 140 and 230
  - Mercedes 163, 203, 209, 211, 219
  - Mercedes 202 and 208



Item #
8749



## 4-piece Steel Line Stopper Set

- for closing brake, fuel and other automotive steel pipes
- fits on e.g. 3/8", 5/16" and 1/2" banjo fittings
- distance of sealing rubber is adjustable
- prevents fluid leaks and contamination during service
- suitable for all automotive fluids



Item #
8705



## Tire Valve Replacing Tool

- allows economic renewing of tire valve stems without dismantling the tire from rim
- includes:
  - extractor for pulling out the defective valve stems
  - mounting tool, consisting of a mounting shaft and cone



Item #
8766



## Hose Clamp Tool, spreading 0 - 40 mm

- for compressing spring steel hose clamps
- particularly useful in confined spaces
- knurled wheel for pre-tensioning
- 3/8" drive for ratchets, extension bars, etc.
- jaw capacity: 0 to 40 mm
- carbon steel, chrome finish

Item #
8805



## CLIC-R Hose Clip Pliers with Bowden Cable

- universal handtool for even in narrow spaces (due to the bowden cable)
- installation and removal of CLIC-R hose clamps
- 630 mm bowden cable length

Item #
8752



## Engine Timing Tool for Volvo T6 Engines

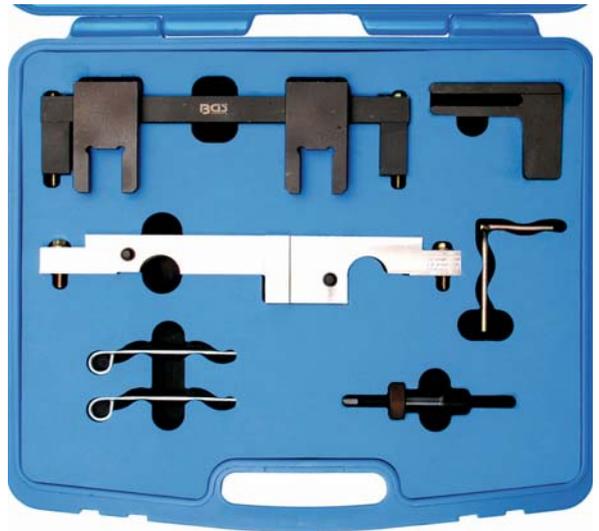
- designed for checking and adjusting the engine timing
- fits on Volvo S80, XC90, XC60, XC70 3.0T, 3.2 with T6 engine as of 2007
- includes camshaft and crankshaft locking tool

Item #
8527



## Engine Timing Tool for BMW N43

- for checking and adjusting the engine timing
- suitable for following BMW models:
  - 1 Series E81 / E82 / E87 / E88, 2006-2012
  - 3 Series E90 / E91 / E92 / E93, 2006-2012
  - 5 Series E60 / E61, 2007-2010
- fits on engines:
  - N43 (B16A/AA), N43 (B20A), N43 (B20AA)
  - N43 (B20AY), N43 (B20KO), N43 (B20UO)
- includes important tools:
  - chain tensioner tool
  - camshaft locking tool
  - adjusting tool for vanos
  - balance shaft locking tool
  - crankshaft locking pin
  - chain tensioner locking pin
- to be used as OEM tools:
  - 113340, 118690, 118691, 118692,
  - 118693, 119340, 119341, 119342,
  - 118710, 118711, 118712, 118700,
  - 115120



Item #
8570

PRO +

## Engine Timing Tool for Citroen/Peugeot 1.8/2.0L

- contains important tools for checking and adjusting the engine timing after replacing the tooth belt and engine repair
- suitable for:
  - Citroen
    - C5 1.8/2.0 HPi (02 - 05)
    - Xsara 2.0 16V (02 - 05)
    - Xsara Picasso 1.8/2.0 16V (02 - 05)
  - Peugeot
    - 406 1.8 16V (00 - 04)
    - 807 2.0 16V (02 - 05)
  - engine code:
    - 6FZ (EW7J4)
    - FRN (EW10J4 / L4 / 5)
    - RLZ (EW10D)



Item #
62622

PRO +

## Engine Timing Tool for Mercedes M271

- is required when replacing the timing chain
- fits on Mercedes models:
  - CLK 200K (W209), C 180K, C200K,
  - C 230K (W203), C Sportcoupe C 160K,
  - C 180K, C 200K, C 230K, E 200K (W211),
  - SLK 200K (R171), C 180K (W204), CLC 180K,
  - CLC 200K, C 180 CGI, C 200CGI, C 250CGI (W204),
  - E 200CGI, E 250CGI (W212, C207)
- suitable for engines with engine codes:
  - M271: E18ML (02-), DE18ML (03-05),
  - E16ML (08-), DE18LA (09-)



Item #
62623

PRO +

## Camshaft Locking Tool, VAG 5 + 10 Cylinder Engines

- suitable for VW T5 as of 2004, Touareg and Phaeton as of 2003 with 5 and 10 cylinder engines
- clamping device for removal and replacement of the camshaft wheels on 5 and 10 cylinder engines, to be used as OEM T10199 / OEM T10199/1



Item #
8690

PRO +

## Crankshaft Locking Tool for VAG 10 Cyl. Engines

- crankshaft locking tool with aligning pin
- to be used as OEM T10195
- suitable for e.g. VW Touran, Phaeton, etc.



Item #
8622

PRO +

## Engine Timing Tool Kit for Fiat / Ford / Suzuki Diesel

- for checking and adjusting the engine timing
- suitable for the following models:
  - Fiat Punto 1.3 JTD Multi-Jet 188A9.000 2003-2007
  - Panda 1.3 JTD Multi-Jet 169A1.000 & 188A8.000 2003-2009
  - Idea 1.3 JTD Multi-Jet 199A3.000 & 188A9.000 2004-2006
  - Doblo 1.3 JTD Multi-Jet 188A9.000 2004-2006
  - Doblo Cargo 1.3 JTD 188A9.000 2004-2006
  - Opel (Vauxhall): Agila 1.3 CDTi Z13DT 2003-2008
  - Corsa C 1.3 CDTi Z13DT 2003-2007
  - Combo C 1.3 CDTi Z13DT 2003-2009
  - Corsa D 1.3 CDTi Z13DTH & Z13DTJ 2006-2009
  - Astra H 1.3 CDTi Z13DTH 2004-2009
  - Tigra B 1.3 CDTi Z13DT 2004-2009
  - Meriva 1.3 CDTi Z13DT & Z13DTJ 2004-2009
  - Suzuki: Ignis 1.3 CDTi Z13DT 2003-2009
  - Wagon 1.3 CDTi Z13DT 2003-2009
  - Swift 1.3 CDTi Z13DT 2003-2010
  - Ford KA 1.3 TDCi
- includes the following tools:
  - counterholding tool for crankshaft pulley, to be used as Fiat Ford OEM 1871000200 OEM 303-1469 Opel / Vauxhall OEM KM-662-C
  - crankshaft adjustment tool, to be used as Opel (Vauxhall) OEM EN 46785 Opel (Vauxhall) OEM KM 955, Suzuki 09912-38300
  - camshaft adjustment tool, to be used as Fiat OEM 1 871 000 900/1 860 985 000 Ford OEM 303-1472, Opel (Vauxhall) OEM EN 46781 Suzuki OEM 09917-68610
  - chain tensioning lever, to be used as Fiat OEM 1870900400
  - crankshaft locking tool, to be used as Fiat OEM 1870900300



Item #
8669

PRO +

## Timing Chain Mounting Tool for Mercedes M111

- allows troublefree mounting of timing chains on MB 111 4-cyl. petrol engines
- suitable for following MB models:  
C-Class 180/200/220/230  
E-Class 220/230  
CLK 200/230  
SLK 200/230  
ML 230
- to be used as OEM 111 589 19 61 00



Item #
8680



## Engine Timing Tool Kit for BMW / Mini / Peugeot / Citroen

- for aligning the new and old version of balance shafts
- prevents noncircular engine running by misaligned balance shafts
- is required when renewing timing chain, crankshaft sealing ring, replacing the cylinder head gasket, etc.
- includes:
  - locking tools for old and new version of balance shaft
  - crankshaft locking tool
  - locking pin for chain tensioner
- suitable for the following engines:
  - BMW: 1.6 (N40 / N45 / N45T, B16, B16A, B16AC)  
1.8 / 2.0 (N42 / N46 / N46T)  
2.0 / 3.0 (N51 / N52 / N52K / N53 / N54)
  - PSA: 1.4 / 1.6 16V (EP3 / EP6 / EP6DT / EP6DTS)
  - Mini: 1.4 / 1.6 (N12 / N14)
- to be used as OEM 115140, 119280, 119330



Item #
8710



## Crankshaft Locking Pin for Ford Zetec / Duratec

- suitable for Ford Zetec SE & Duratec 1.25, 1.4, 1.6l engines, as in Fiesta, Fusion and Focus
- to be used as Ford OEM 303-748, 21-259  
Mazda OEM 49J E02 061, Volvo OEM 999 7201



Item #
8671



## Engine Timing Tool Set for Ford 2.0 / 2.4 Duratorq Diesel

- is needed when working on timing chain, cylinder head, etc.
- includes flywheel, pump, camshaft and chain tensioner locking pin  
to be used as OEM 21-234, 21-251
- suitable for Ford Mondeo and Transit 2.0 l / 2.4 l Duratorq 16V (Tddi and TDCi)  
engine code: ABFA, D2FA, D3FA, D5BA, D6BA, D0FA, F1FA, F3FA, F4FA, FMBA / B, FXFA, H9FA, H9FB, HJBA / B, HJBC, HJBE, JXFA, N7BA / B, PHFA, SDBA



Item #
8672



## Engine Timing Tool Set for Ford TDCi / PSA Hdi / Mazda D 1.4 & 1.6

- is required when changing the timing belt, repairing cylinder head, etc.
- suitable for Ford 1.4 and 1.6 L engines G8DA, G8DB, HND A 2004-2006 and comparable engines in Mazda, Citroen and Peugeot
- contains timing pins for camshaft and crankshaft to be used as:  
Ford OEM 21-260, 21-262, 21-263, 303-732, 303-734, 303-735, 999-7121, 5711-TD, 07744-00104-00, 18G 1580, 4527-TS2, 999-7169, 999-7122, Citroen / Peugeot OEM 0194C, 0194A, 0178D, 0194B, 0187B, 0189B, 0132AB



Item #	<b>PRO +</b>	
8673		

## Engine Timing Tool Set for Opel 1.6 / 1.8L

- contains tools for locking the camshaft and crankshaft
- suitable for 1.6 and 1.8 L engines with timing belt, installed in Opel / Vauxhall, Chevrolet, Fiat, Alfa Romeo (2003-2012), e.g. Astra G / H, Corsa D, Insignia, Meriva, Signum, Vectra C, Zafira B (2003-2011)
- also suitable for Chevrolet Cruze, Orlando 1.4 - 1.6 - 1.8 and Fiat Croma, Alfa Romeo 159 with engines 939A4.000
- to be used as OEM tools:  
KM-6628-A, 2000012000  
KM-6340, 2000012100  
KM-6333  
KM-6625, 2000012800  
KM-6349, KM 6130  
KM-911



Item #	<b>PRO +</b>
8697	

## Engine Timing Tool Set for BMW N47 / N47S

- for adjusting the engine timing when replacing the timing chain, head gasket, etc.
- suitable for the following BMW models:  
1 series: 118 D (E81 - E87)  
          120 D (E81 - E82 - E87)  
          123 D (E81 - E82 - E87)  
3 series: 318 D (E90 - E91)  
          320 D (E90 - E91 - E92)  
5 series: 520 D (E60 - E61)  
          X3: 2.0 D (E83)
- includes the following tools:  
camshaft locking tool  
crankshaft locking tool  
crankshaft rotation tool
- tools should be used as:  
OEM 116480, 115320 OEM, OEM 118760



Item #	<b>PRO +</b>
8724	

Engine Timing Tools

## Engine Timing Tool Set for Fiat 1.2 16V

- contains important tools for checking and adjusting the engine timing
- fits on Fiat models:
  - 500 1.2 (07), Brava 1.2, Bravo 1.2 16V, (95-02)
  - Grande Punto 1.2, Idea 1.2, Idea 1.2 / 16V
  - Marea 1.2, Marea Weekend / Marengo 1.2
  - Palio Weekend 1.2 / 16V (93-99)
  - Punto 1.2, (93-99), Punto Classic 1.2 / 16V (99)
  - Stilo 1.2 and Lancia Ypsilon 1.2 / 16V (96-03)
- with engine code:
  - 176B9.000, 169A4.000, 182B2.000, 188A5.000
- piston height adaptors (2x) to be used as OEM 1860992000
- camshaft adjusting tools (2x) to be used as OEM 1860985000
- tension adjustment wrench to be used as OEM 1860987000



Item #	<b>PRO +</b>
8725	

## Engine Timing Tool Set for Fiat 1.8 / 2.0 L Petrol Engines

- for adjusting the engine timing
- suitable for engine codes LFW, RFU, RGX, RFW
- includes:
  - crankshaft locking tool 6 mm
  - camshaft locking tool 10 mm
  - camshaft locking pins 2 pc.
  - tool for timing belt tensioner
- to be used as OEM tools:
  - 0132QZ, 0132Z, 4507-TA, 0132Q, 014-TM
  - 0188Q1, TJ-4507, 0132X, 9767.89, 0132X



Item #	<b>PRO +</b>	
8740		

## Engine Timing Tool Set for Fiat 1.7 / 1.9 L Diesel

- for setting the engine timing on Fiat engines:
  - 176B3.000, 176A3.000, 176A5.000, 149B1.000,
  - 160A6.000, 160A7.000, 160D1.000, 230A2.000,
  - 230A3.000, 230A4.000, 280 A1.000
- suitable for Fiat models:
  - Punto 1.7D / TD, 1.9D Tipo, Ducato 1.9D / TD
  - Tempra 1.9TD with adjustable camshaft sprocket



Item #	<b>PRO +</b>
8741	

## Crankshaft Rotating Tool for BMW M52, M54, M56

- for holding the crankshaft pulley while loosening or tightening the middle pulley bolt
- allows safe and damage-free removal / installation
- to be used as OEM 116480



Item #
8742

PRO +

## Double Vanos Adjustment Tool for BMW M52TU / M54 / M56

- for setting the vanos units on BMW M52TU / M54 / M56 engines
- includes:
  - mounting plate
  - camshaft locking tool to be used as OEM 113240
  - pressure connection to be used as OEM 113450



Item #
8743

PRO +

## Crankshaft Counterholder for BMW M52TU / M54 / M56

- for holding the crankshaft pulley while loosening or tightening the middle pulley bolt
- allows safe and damage-free removal / installation

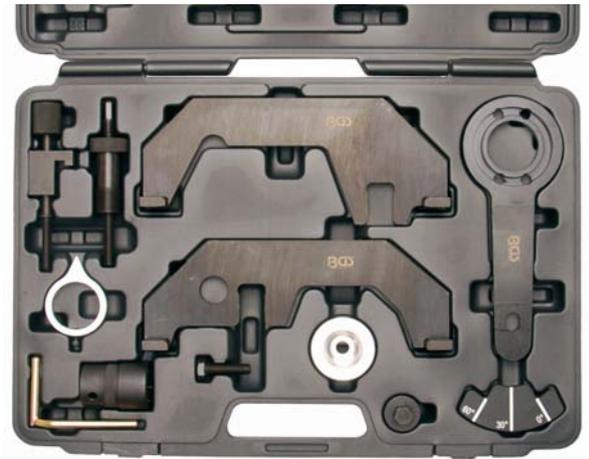


Item #
8744

PRO +

## Engine Timing Tool Set for BMW N62 / N73

- contains important tools for checking and adjusting of engine timing
- suitable for the following BMW models: E60, E61, E63, E64, E65, E66, E53 540i, 545i, 550i, 645i, 650i, 735i, 740i, 745i, 750i, 760i, X5 with engines:
  - N62 - B40A / B44A / B48B 2003-2010
  - N62 - B44A / B48B 2003-2010
  - N62 - B36A / B40A / B44A / B48B
  - N73 - B60A 2002-2008
  - N62 - B44A / B48A 2003-2007
- includes the following tools:
  - flywheel locking tool
  - inlet camshaft locking tool
  - exhaust camshaft locking tool
 to be used as OEM tools: 119190, 119461, 119462, 119463



Item #
8746



## Engine Timing Tool Set for BMW M42 / M50

- for adjusting the engine timing after e.g. changing the timing chain or cylinder head gasket
- suitable for BMW engines M42 and M50
- includes:
  - camshaft locking tool
  - flywheel locking tool
- to be used as OEM tools 113240 and 112300



Item #
8747



## Engine Timing Tool Set for BMW M60 / M62

- for adjusting the engine timing after e.g. changing the timing chain and cylinder head gasket
- suitable for BMW engines M60 and M62
- includes:
  - camshaft locking tool
  - flywheel locking tool
- to be used as OEM tools 112441, 112442, 112445, 112446, 112300



Item #
8748



## Crankshaft Locking Tool for VW Touareg / Phaeton 2003-

- suitable for VW Touareg 2003>, Phaeton 2003> with 10-cyl. diesel engine
- crankshaft locking tool, for locking crankshaft when adjusting engine timing to be used as OEM T10195
- adjusting bolts, for mounting of the engine control module (wheels cassette) to be used as OEM T10200
- supplementary set for BGS 8443



Item #	<b>PRO +</b>
8769	

## Crankshaft Counterholder for BMW M52TU, M54, M56

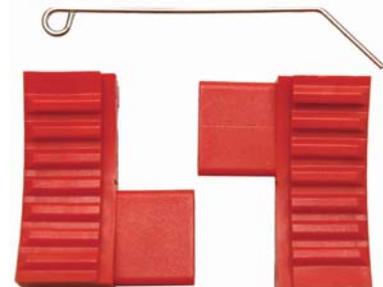
- for holding the crankshaft pulley while loosening or tightening the middle pulley bolt
- allows safe and damage-free removal / installation
- to be used with a 1/2" ratchet, sliding bar, etc.



Item #	<b>PRO +</b>
8745	

## Camshaft Locking Tool for Opel 1.6 I

- contains important tools for controlling and adjusting the engine timing
- fits on Opel / Vauxhall models: Astra G and H, 1.6 L / Turbo, year 03-08 with engine codes: Z16 LER - Z16 LET - Z16 XE1 - Z16 XEP
- camshaft locking tool, to be used as OEM 21-163 / 303-620
- tensioner locking pin, to be used as OEM 21-210 / 303-507



Item #	<b>PRO +</b>	
8721		

## Flywheel Locking Tool for VAG 1.9 TDI

- for locking the flywheel
- to be inserted into the bore of transmission housing
- fits on VW, Skoda, Seat with 1.9l diesel engines



Item #	<b>PRO +</b>
8751	

## Piston Ring Pliers

- enables non-destructive disassembly and assembly and prevents uncontrolled movement of the piston rings



Item #	Description
8370	Piston Ring Pliers, 80 - 120 mm
8371	Piston Ring Pliers, 110 - 160 mm
8374	Piston Ring Pliers, 40 - 100 mm



## Timing Chain Riveting Tool

- for renewing and riveting timing chains
- old timing chain is fed in with help of the new chain
- a dismantling of the timing chain case is often not required
- suitable for most Mercedes models
- to be used as Mercedes OEM tools:  
112589096300, 602589003900, 602589023300  
602589024000, 602589056300, 602589056301

Item #	PRO+
8501	



## 14-piece Valve Seat Milling Cutter Set

- suitable for cylinder heads with hardened valve seats
- includes:
  - 6 double-sided cutters
    - Ø 28-35 mm, 45° and 75°
    - Ø 37-44 mm, 30° and 75°
    - Ø 37-46 mm, 45° and 68°
    - Ø 44-52 mm, 30° and 75°
    - Ø 46-60 mm, 30° and 45°
    - Ø 52-65 mm, 60° and 75°
  - 4 continuously adjustable guides for Ø 6.5 to 12.5 mm
  - T-Handle for milling cutters

Item #	PRO+
68346	



## 9-piece Glow Plug Removal Tool Kit M9

- allows removing of defective and broken M9 x 1.0 glow plugs
- suitable for e.g. Fiat engines
- consisting of:
  - special step drill with depth stop
  - tap M9 x 1.0
  - tap 1/4" x 20 UNC
  - removal sockets 2.6-4.5-8.25 mm
  - tool holder for tappers
  - pull-out unit with hardened spindle

Item #
8657

**PRO +**

## 28-piece Glow Plug Thread Repair Tool for VW / Audi

- for quick and professional drilling out damaged or torn-off glow plugs without removing the cylinder head
- allows recutting or repairing of the glow plug thread and cleaning of the electrode bore
- exact depth and drilling angle are reached using guide sleeves
- suitable for:
  - M10 x 1 glow plug thread on e.g. VW Passat, Audi V6 TDI with 2.5l / 2.7l / 3.0l engines
  - with engine codes: AFB, AKE, AKN, ASB, AYM, BAU, BCZ, BDG, BDH, BFC, BKN, BKS, BMK, BNG, BSG, BUN, BUG
- includes the following tools:
  - cover plate for intake ports
  - compressed air adapter for injector bore
  - 9.1 mm drill for M10 x 1
  - 11.1 mm drill for M12 x 1
  - tap with guide sleeve for M10 x 1 threads
  - tap with guide sleeve for M12 x 1 threads
  - 10 threaded inserts for M10 x 1 with external thread M12 x 1
  - M6 x 1.25 taps
  - extraction tool
  - 2 reamers 4.8 mm, long and short type
  - reamer 5.8 mm long type
  - 3 guide sleeves
    - Ø 17,5 mm OD - 38 mm length
    - inside Ø 9 mm and 13 mm - 63 mm length 13 mm inside Ø
  - 2.4 - 5.5 mm tapping holder 240 mm long with 1/4" drive
  - 3 extractor electrodes for 2.5 - 3.5 - 4 mm

Item #
8722

**PRO +**

## Removal Tool Set for Broken Glow Plug, M8 & M10

- for extracting the glow plug when glow plug head is broken
- suitable for glow plugs M8 x 1.0 - M10 x 1.0 - M10 x 1.25
- contains tap sizes M8 x 1.0 - M10 x 1.0 - M10 x 1.25
- M3 x 0.5 tap 100 mm
- M4 x 0.7 tap 100 mm
- special drills 2.5 x 120 mm - 3.3 x 140 mm
- 180 mm pulling bolt
- material: Chrome-Molybdenum



Item #
8698



## Glow Plug Removal Tool, M10x1.0

- ensures the correct removal of burned-in, corroded or broken-off glow plugs
- allows repairing of the glow plug retaining thread without removing the cylinder head
- defective original thread M10 x 1 is repaired by insertion of a new threaded sleeve
- includes:
  - puller and sliding hammer for removing of stuck and broken glow plugs
  - reamers for reaming of the defective thread
  - tap M10 x 1 and M12 x 1
  - centering sleeve for reamers and taps
  - special step drills and taps for removal of broken glow plugs
  - 12 thread repair sleeves M12 x 1 to M10 x 1
  - compressed air adapter



Item #
8699



## Spark Plug Thread Repair Kit M8 x 1.0

- suitable for repair of spark plug threads
- easy to use
- contains special HSS taps with 6-pt.-drive and 4 threaded bushes, lengths 9.5 - 11.5 - 12.7 and 19 mm



Item #
167



## 1/2" Manual Impact Wrench

12.5  1/2

- Principle of operation:  
Rotate the impact wrench in loosening direction until it stops turning. Exert one or several blows with a hammer on the wrench head. The sudden angular momentum passes to the socket and screw
- for loosening tightly fitted screw
- suitable for right and left hand threads
- base unit made of CR-V, satin chrome finish



Item #  
708



## Ribbed Belt Mounting Lever

- for tensioning of the tensioning wheel
- facilitates the placement of the V-ribbed belt
- suitable for Mercedes-Benz Types:  
168, 169 (A-Class), 245 (B-Class)
- length: 620 mm
- size: 15 mm

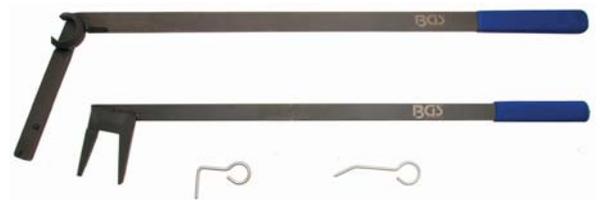


Item #  
1703



## Ribbed Belt Tool Kit for Mini

- suitable for Mini Cooper S and One
- for tensioning of air conditioning and alternator ribbed-belts
- contains 2 release levers and 2 locking pins
- to be used as OEM 118390 / 118410



Item #  
8678



## Universal Counterholder for Camshaft Sprockets

- for counterholding the camshaft sprocket while loosening and tightening the camshaft bolt
- enables a rotation of the camshaft
- adjustable and lockable opening width from 100 - 150 mm



Item #  
8674



## Pre-Chamber Socket for Mercedes CDI

- 1/2" Drive Multi-Spline Socket 1.5 x 58 mm
- allows changing of the diesel pre-chamber
- fits on MB engines from 1989.
- suitable for engines with the following codes: 601, 602, 602.91, 603, 604, 605, 606, 661, 662
- material: chrome-vanadium steel
- black phosphate finish



Item #
5430



## Valve Stem Seal Pliers, 270 mm

- for easy removing of deep valve stem seals on multi valve engines
- to be used e.g. on Opel, VW and Ford
- hardened jaws



Item #
8668



## Injector Pump Sprocket Puller Set, esp. for BMW & Opel

- puller for BMW injection pump sprocket
- is required for the disassembly of diesel injection pumps
- includes puller tools for the following applications:
  - for removing the sprocket from the pump shaft, suitable for 4-cyl. and 6 cyl. BMW engines M41, M51 and identical engines in Vauxhall Omega 2.5 TD (M51)
  - for removing the sprocket from the pump shaft and holding the pump wheel in the assembly position, suitable for BMW engines M47, M47TU, M57, M57TU
  - guide rail pin puller for Mercedes-Benz for removing even the most stubborn pins
  - thrust bearing for easy turning
- to be used as OEM:  
135120 - 135190 - 135191 - 135192



Item #
8750



## Injector Puller for Bosch Injectors

- suitable for Bosch injectors, installed in vehicles of following manufacturers: Opel, Ford, PSA, Fiat, Lancia, Alfa Romeo, KIA Hyundai, Toyota, Mazda, Suzuki, Iveco, Volvo with 1.3 - 1.6 - 1.9 - 2.0 - 2.2 Diesel engines
- includes 3-pc. pulling bridge with extensive adaptations, can be adapted to many cylinder heads
- allows high extraction forces

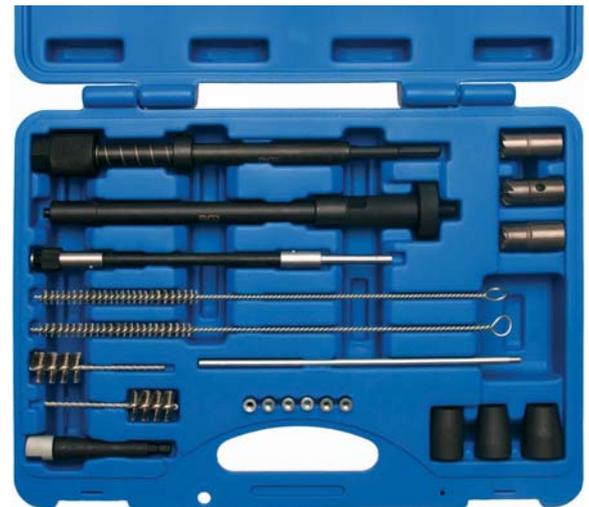


Item #
8753

PRO +

## Injector Seat and Manhole Cleaning Set

- for cleaning of the injectors seats and glow plugs manholes
- includes: 4 cleaning brushes, brush holder, 3 Injector seat cutters, cutter guide, seal puller, brush holder extension



Item #
8723

PRO +

## Injector Puller for Chrysler 2.5 & 2.7 CRD

- for extracting tightly stuck injectors
- suitable for Chrysler 2.5 & 2.7 l CRD 16 valve VM engines



Item #
8771

PRO +

CROMO

## Injector Extractor Tool for BMW

- for pulling out injectors
- disassembly of the cylinder head is not necessary
- support on the cylinder head allows high extraction forces
- suitable for BMW engines M47TU - M57 - M57TU
- the set includes the following tools:
  - 2 support feet 115 mm
  - 2 support feet 140 mm
  - supporting bridge with ball bearing
  - spindle M16, one side M17 thread, for mounting in the injector
  - 29 mm socket for disassembling the electric unit
  - internal 6-pt wrench for removing the injector needle



Item #
8782

PRO +

## Seal Ring Extractor Tool Set for Crank- & Camshafts

- for disassembly of radial sealing rings
- especially suitable for sealing rings where a stub shaft protrudes and a disassembly is almost impossible without this tool
- holds the sealing ring on the inside with a conical profile
- suitable for most commercial sealing rings
- includes the following tools:
  - extractor for 35 - 44 mm sealing ring diameter, with 31.5 mm center bore
  - extractor for 59-64 mm sealing ring diameter, center bore 54.5 mm



Item #
8759

PRO +

## Motorcycle Fork Fill and Control Tool

- a must have tool for filling and checking the fork oil capacity. The correct amount of oil is crucial for good responding properties of a motorcycle fork
- allows testing of oil volume (ml) and oil level (mm)
- includes:
  - measuring rod with adjusting ring, 0 - 300 mm
  - filling and measuring syringe with suction hose, 70 cc



Item #
993

PRO +

## Spring Tensioner for Upside-Down Forks

- helps save time, one-man operation
- for pre-tensioning of fork springs
- suitable for most common Upside-Down forks
- 340 to 800 mm clamping range
- made for springs up to 2350N
- length: 570 mm

Item #  
1174

PRO +



## Axle Nut Socket Set for Ducati

- for removal of the front and rear wheels
- includes the following sizes:
  - 2-in-1 combined socket
  - 55 mm, 12-pt for rear wheel nuts
  - 28 mm, 6-pt for front wheel nuts
  - 28 mm, 12-pt for front wheel nuts
  - 30 mm, 6-pt for front wheel nuts
  - 41 mm, 6-pt for rear wheel nuts
  - 46 mm, 12-pt for rear wheel nuts
- material: aluminum alloy steel, anodized

Item #  
5061

PRO +



## Fork Cap Wrench for Öhlins Forks

- suitable for most Öhlins models
- disassembly and assembly of the upper fork tube caps
- rubber pad prevents damage to the nut
- material: aluminum alloy steel, anodized
- 1/2" and 6-pt drive

Item #  
5062

PRO +



## Alternator Cover Puller for Ducati

- for removal of the left-hand engine cover
- fits on Ducati models from 1990 - 2009:  
600 / 620 / 695 / 696 / 748 / 749 / 750 / 800 /  
848 / 851 / 888 / 900 / 906 / 907 / 916 / 996 /  
998 / 999 / 1000 / 1078 / 1098 / 1100 / 1198
- material: body made of aluminum alloy steel,  
anodized, studs and spindle made of carbon steel

Item #  
5063

PRO +



## Clutch Basket Holding Tool for Ducati

- suitable for all current 6-speed Ducati models with dry clutch
- allows a damage free disassembly / assembly of clutch components
- includes retaining bolt for locking the tool
- material: fiberglass polyamide

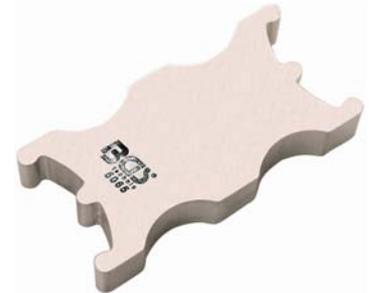


Item #
5064

PRO +

## Camshaft Locking Tool for Ducati 851, 888, 916, 996

- for locking the camshaft when replacing the timing belt, checking the engine timing, etc.
- suitable for Ducati models 851, 888, 916 and 996
- material: aluminum alloy steel, anodized



Item #
5065

PRO +

## Camshaft Locking Tool for Ducati 4 Valve Engines

- for locking the camshaft when replacing the timing belt, checking the engine timing, etc.
- suitable for Ducati models 748, 916, 996 and Desmoquattro
- not suitable for ST4 or S4 engines
- material: aluminum alloy steel, anodized



Item #
5066

PRO +

## Camshaft Locking Tool for Ducati (Testastretta)

- for locking camshaft when replacing the timing belt, checking the engine timing, etc.
- suitable for Ducati models 749, 999, 748, 916, 996 Desmoquattro with Testastretta engines
- material: aluminum alloy steel, anodized



Item #
5067

PRO +

## Ducati Front Axle Alignment Tool, Ø 30 mm

- allows mounting and aligning of the front wheel axle when tightening the axle nut
- suitable for Ducati 848, 1098, 1198 and other models with 30 mm axle inner diameter
- material: aluminum alloy steel, anodized

Item #
5068



## Ducati Front Axle Alignment Tool, Ø 25 mm

- allows mounting and aligning of the front wheel axle when tightening the axle nut
- suitable for Ducati 999, ST2, ST3, ST4, 620SS, 800SS, 1000SS and other models with 25 mm axle inner diameter
- material: aluminum alloy steel, anodized

Item #
5069



## Axle Nut Socket for Ducati, 55 / 28 mm

12.5 1/2

- for loosening / tightening axle nuts
- suitable for following Ducati models:  
1098, 1198 Streetfighter or Multistrada  
1200, 748, 848, 916, 996, 998, Hypermotard, Multistrada, Monster, Supersport, Sport Classic
- 55 mm 12-pt. for rear wheel axle
- 28 mm 6-pt. for front wheel axle
- material: aluminum alloy steel, anodized

Item #
5071



## 4-Way Magnetic Rotor Puller

- for removal of rotor wheels
- suitable for 5 different internal thread sizes:  
M14 x 1.5 - M16 x 1.5 - M18 x 1.5 - M24 x 1 - M27 x 1
- M24 x 1 - M27 x 1 with 21 mm cut-out for counterholding
- dimensions: 165 x 165 mm

Item #
8613



## Chain Breaker (428 - 630 Chain)

- to separate O-Ring, X-Ring and conventional chains
- suitable for following chains:  
428, 428H, 520, 520H, 525,  
525H, 530, 530H, 630, 630H

Item #
8634

PRO +



## Flywheel Puller, M27x1.0

- left sided thread M27 x 1.0
- M16 spindle with sliding bar
- inner diameter: 18 mm
- length: 97 mm
- material: S45C steel
- suitable for e.g. following motorcycles:
  - Aprilia Area, Gulliver, Scarabeo, Sonic, SR 50, etc.
  - Benelli 491 - 50, K2 - 50, Naked 50, Pepe 50, etc.
  - Beta Ark 50, Eikon 50, Quadra 50, Tempo 50 etc.
  - CPI Aragon 50, Crab 50, Formula 25, GTR 50, etc.
  - Italjet Dragster 50
  - KTM Ark 50, Kross 50
  - MBK CS 50, CW 50, EW 50, YH 50, YN 100, etc.
  - Yamaha CA 50, CS 50, CW 50, EW 50, YE 50, etc.

Item #
8726

PRO +



## 3-in-1 Clutch / Variator Tool for Piaggio

- for blocking and removing the variator and clutch bell
- integrated hex wrench for loosening the coupling nut (34 mm)
- pin pitch: 55 mm
- made of stainless steel
- to be used as OEM 14569-PI
- suitable for many models of following manufacturers:  
Aprilia, Derbi, Gilera, Italjet, Peugeot, Piaggio, Vespa

Item #
8729

PRO +



## Riveting Tool for Motorcycle Chains

- for separating and riveting chains
- suitable for chains 35 up 630
- also suitable for engine timing chain
- 3 separating tips included: 2.2-2.9-3.8 mm

Item #
8802

PRO +



Motorcycle Tools

## Oil Filter Wrench

- for loosening of tight oil filters
- especially suitable for tight spaces
- steel strip is tensed by turning the clamping screw at the end of the handle
- profiled steel strip prevents sliding over the filters



Item #	Description
8536	Oil Filter Wrench, 110 - 155 mm
8537	Oil Filter Wrench, 65 - 105 mm
8536-1	Replacement Band 110 - 155 mm for BGS 8536
8537-1	Replacement Band 65 - 105 mm for BGS 8537



## 9-piece Oil Filter Cap Set

10 3/8

- includes the following oil filter cap wrenches:
  - 64.5 mm x 14-pt., aluminum chrome finish, for Toyota Auris, Corolla, Premio, Prius
  - 64.5 mm x 14-pt., aluminum chrome finish, for Toyota V6 Modelle von 2007-2008, Lexus ES 350, GS 350, GS 350h, LS 460, RX 350, LS 600j L
  - 88.8 mm x 15-pt., aluminum chrome finish, for Kia and Hyundai
  - 74.2 mm x 14-pt., aluminum chrome finish, for Audi, BMW, Ford, Mazda, Toyota, Volkswagen, Porsche, Mercedes V6 / V8
  - 86.6 mm x 16-pt., aluminum chrome finish, for BMW 335i, 535i, 3 series E90, X6 3.0L, Volvo Modelle 1999-2006 (not 2005 40 and 50 models)
  - universal oil filter cap wrench 63 - 83 mm, SCM 440 chrome finish
  - 27 mm x 6-pt., S45C nickel, for Mercedes and Smart models
  - 32 mm x 6-pt., S45C nickel, for Opel 4-cyl. 2.2 L X10XE, X12XE, Y17DT, Y17DT and Mercedes OM 364, OM 366
  - 36 mm x 6-pt, S45C nickel, for Mercedes Diesel OM604, OM605, OM606, BMW M52, M60, M70, Mini, VW VR6



Item #
8667

PRO+

## Oil Filter Cap Wrench for Toyota / Lexus, 64.5 x 14-pt.

10 3/8

- suitable for the following models:
  - 2007-2008 Toyota 3.5l V6
  - Lexus GS300 (2006)
  - Lexus IS250 (2006 -)
  - Lexus ES350 (2007 -)
  - Lexus GS350 (2007 -)
  - Lexus GS450h (2007 -)
  - Lexus LS460 (2007 -)
  - Lexus RX350 (2007 -)
  - Lexus LS600H (2008)
- drive: 3/8" and hex. 24 mm
- material: aluminum, black coated

Item #
8761

PRO+



## 5-piece Oil Filter Wrench Set

- for removing oil filter housing
- special design for tight spaces
- includes the following sizes:
  - 24 mm, suitable for BMW N62, models 5/7
  - 27 mm, suitable for:
    - BMW Mini - Renault 1.5 / 1.9 / 2.2 / 2.5 DCI
    - Ford Fiesta 1.4 / 1.6 TDCi Mercedes A-Class
    - Ford Transit 2.2 / 2.4 / 3.2 > 2006
  - 32 mm, suitable for:
    - Ford Transit 2.0 / 2.4 2000-2006
    - Volkswagen Polo 1.2, Transporter T5 1.9 > 2004
    - Audi A6 3.2 V6 TSI > 2004 - Vauxhall / Opel Astra G, Corsa B
  - 36 mm suitable for:
    - M616 Mercedes vans, vans 116MB/100
    - Mercedes 220D, E220D, M604, C250D, E250D, M605, E300D, M606
    - BMW M52 (3/5 series), M60 (5/7/8 series), M73 (7/8 series)
    - Vauxhall / Opel Vectra B di 16V > 98
    - Volkswagen Transporter T5, Lupo 1.2 TDi, Toureg TDi
  - 38 mm, suitable for Vauxhall / Opel Astra, Zafira 2.0 / 2.2 dti
- to be used with ratchet
- on metal rail



Item #
8677



Oil Service Tools

## Oil Filter Wrench, especially for Mercedes, Dodge and Jeep

- suitable for e.g. following models:
  - Mercedes-Benz Sprinter (2007)
  - Mercedes-Benz E320 (2007)
  - Dodge Sprinter (2007)
  - Jeep Cherokee 3.0 V6 Diesel (2007)
- depth: 48 mm
- drive: 1/2"



Item #
8765



## Oil Service Wrench for Audi A4 & A6, BMW

- 19 mm hexagon x M16 spline (tamperproof)
- length: 240 mm
- chrome-molybdenum steel
- satin chrome finish



Item #
8727



## Oil Service Tool , 17 mm x H14

- 17 mm 6-pt ring spanner with 14 mm internal hex. bit, slightly angled
- satin chrome finish



Item #
8728



## Oil Filter Removal Tool

- for removing 55 to 95 mm oil filters
- three leg oil filter wrench with 4- / 6-pt. drive
- replaceable legs in different lengths
- handwheel for loosening and tightening
- 150 Nm capacity for stuck filters

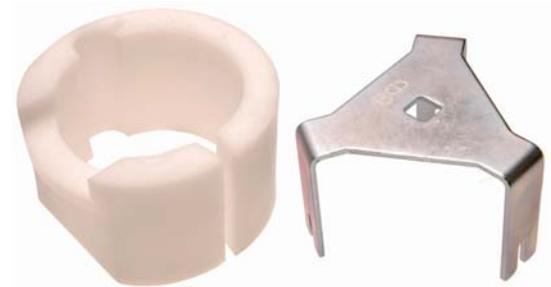


Item #
8596

PRO +

## Diesel Filter Removal Tool Kit, Opel / Fiat

- prevents damage to the fuel filter housing
- clamping device for clamping the filter housing in a bench vise
- special wrench allows easy disassembly of the housing cover
- suitable for:
  - Opel engines:
    - DA13, Z13DT, Z13DTH, Z13DTJ
    - Z19DT, Z19DTL, Z19DTH
    - (not for Corsa and Meriva-D as of 2007)
  - Fiat-/Lancia-Motoren:
    - 1.3 MJTD 16V - 1.3 16V JDT - 1.9 JTD 8V
    - 2.0 8V JDT - 2.2 16V JTD - 2.3 16V JDT
    - 2.8 JTD - JDT 3.0 16V
    - (only for vehicles with fuel filter insert)



Item #
8553

PRO +



## Waste Oil Container, extra flat

- especially suitable where a low tank height is required
- suitable for all fluids in the car such as cooling fluid, all kinds of oils, etc.
- filtering sieve
- drain and vent opening
- max. capacity: 20 l
- movable, with 2 wheels



Item #
8719

PRO +

## Oil Funnel Set

- helps to fill in engine oil spillage free
- tubing and adapter are made of aluminum
- 1l funnel capacity
- includes the following adapters:
  - M37 x 3.0 for Lexus, Toyota (except Prius & Yaris)
  - M42 x 4.5 for Subaru (except Tribeca)
  - M32 x 3.5 for Nissan, Honda, Accura (except MDX & RDX)
  - M35 x 4.0 for most Mazda
  - bajonet adaptor for Audi, VW, BMW, Mercedes, Volvo, Dodge



Item #
8505

PRO +

## Oil Funnel for Toyota / Lexus

- for clean filling of engine oil
- fixed mounting on oil filler
- funnel diameter: 125 mm
- length: 220 mm
- 65 mm viewing window

Item #
8762

PRO +



## Oil Funnel with Bayonet Adapter for VAG, MB, BMW, Toyota

- suitable for following cars:
  - VW, Audi, Seat, Skoda, Mercedes-Benz,
  - BMW Toyota, Mitsubishi

Item #
8803

PRO +



## Oil Funnel, bent

- double angled for hard to reach places
- height: 320 mm
- funnel: Ø 145 mm

Item #
8695

PRO +



## 9-piece Truck Cooling System Tester

- with pump and 7 adaptors
- fits on following truck models:
- DAF-XF 95, XF 105
- Scania-113, -114, -124 und -125
- Volvo-FH 12
- Iveco-Daily 2000 C-Series, Renault-Magnum
- MAN-L 2000, -TGA
- MB-Actros, -Atego, Axor, -ECO 8401, 1728, MAN- F 90, -F 2000, Iveco-EURO-Star, -EURO-Tech, Euro-Truck, Strahlis
- MB-Sprinter

PRO +

Item #	Description
8514	9-piece Truck Cooling System Tester
8514-3	Adaptor Scania 113, 114, 124, 125
8514-4	Adaptor DAF-XF 95, XF 105
8514-5	Adaptor MB Actros, Atego, Axor, ECO 8401, LKW 1728, MAN F90, F2000, Iveco Euro Star, Euro Tech
8514-6	Adaptor Iveco LKW Daily 2000, C-Serie
8514-7	Adaptor MAN L 2000, TGF
8514-8	Adaptor Volvo FH 12
8514-2	Pressure Pump with Gauge from BGS 8514
8514-1	Adaptor Hose from BGS 8514
8514-9	Adaptor Mercedes Benz Sprinter bis 2006



## 5-piece Universal Radiator Test Set

- for pressure tests of cooling systems
- 4 expanding cone adapters
- suitable for most vehicles
- dimensions of the cone adapters (in mm):
- min. max. heigth
- 17,0 37,0 64,0
- 28,5 41,0 74,5
- 37,0 50,0 74,5
- 47,0 60,0 74,5
- pump with color-coded gauge 0-2.4 bar (0-35 psi), quick coupler and pressure release valve

Item #  
8096

PRO +



## Vacuum / Pressure Pump Set

- suitable for checking pressure and vacuum systems like boost pressure, vacuum solenoid valves, tank vents, MAP sensors, etc.
- also suitable for brake bleeding
- 63.5 mm pressure / vacuum gauge
- pressure indicator range: +0 to +3 bar
- vacuum indicator range: -0 to -1 bar

Item #  
8038

PRO +



## 7-piece Universal Coolant Filling Set

- quick, clean and easy way to fill cooling system during the bleeding process
- versatile, suitable for many reservoir types
- with shut-off valve
- adapter Ø 31 - 35 - 40 and 45 mm



Item #
8627



## Diesel Service Filling Pump

- for filling the fuel system
- is required when renewing diesel filters and other components of the diesel fuel injection system
- prevents defects of high pressure pumps (CDI) which frequently occur renewing filters without manual filling



Item #
4063



## 3W UV Leak Detector LED Lamp Set

- allows detection of leaks in air condition systems, engines, gearboxes, etc. (in conjunction with fluorescent additives)
- includes UV flashlight, 2 rechargeable batteries, charger, protective glasses with special UV filter
- LED type: 3 Watt UV high power
- housing: aluminum anodized
- batteries: 2x 18650 (2200 mAh)
- AC battery charger: 1x Battery 18650



Item #
8523



## Caliper for Inch Screws

- for determining the required wrench



Item #
8644



## Digital Micrometer

- for quick and easy determination of e.g. brake disc thickness, also suitable for all other measurements
- spring loaded

Item #
8675



## OBDII / EOBD Trouble Code Reader

- allows reading and deleting OBDII trouble codes
- no trouble code list required, all trouble codes are displayed in plain text
- viewing the freeze frame values is an important feature to locate a fault
- reading of readiness codes indicates if emission systems are ready or not
- enables reading live data, various parameters are shown in real time
- power supply via OBDII cable from the vehicle
- easy to use
- menu languages: German, English

Item #
63311



## Digital Dial Gauge, 0 - 12.7 mm

- switchable from inches to mm
- measuring range: 0 - 12.7 mm (1/2 ")
- reset button for zero position
- automatic shut-off
- suitable for example standard dial gauge and as a replacement gauge for Art 1938
- clamping Ø 8 mm, hardened
- hardened ball tip

Item #
1938-2



## Trailer Socket Tester

- for checking the electrical socket, e.g. after mounting a trailer hitch
- suitable for 12V systems
- possible functional test:
  - right and left indicator light
  - brake light
  - left and right tail light
  - rear fog light
  - polarity test
- LED type
- 100 cm connecting cable

Item #
80763



## Vernier Caliper Accessory Kit for Calipers

- for extending the measurement capabilities of calipers
- allows measurements on:
  - deeper measurement points
  - inwardly tapered components
- includes:
  - measuring leg, 2 pcs
  - measuring tip, long, 2 pcs
  - measuring tip, short, 2 pcs.
  - measuring heads, short, 2 pcs
- perfect for use on brake discs
- in wooden case

Item #  
1930-1

PRO +



## Testing Tool for Turbo Charger Systems

- for checking the charging system components when installed
- professional and economic troubleshooting
- safety valve prevents applying excessive pressure
- suitable for turbochargers, G-chargers, compressors
- fits on most charging system hoses
- system is closed by plugs and pressurized
- also suitable for leak detection

Item #  
8563

PRO +

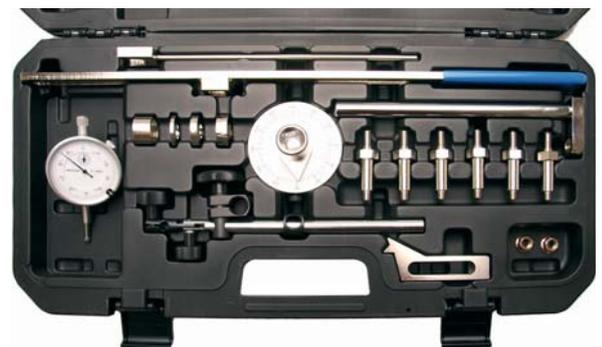


## Testing Tool for Dual-Mass Flywheel

- suitable for testing of freeplay angle and the clearance on dual mass flywheel (DMF)
- a checking of the flywheel is recommend because a worn or defective DMF can damage the new clutch
- test can be performed directly on the vehicles if the clutch has been removed
- includes:
  - 2 different claws for locking the flywheel
  - angular disc with holder
  - dial indicator with holder
  - assembly / measuring bolt
  - twist lever

Item #  
8681

PRO +



## Digital Thermometer with Stainless Steel Sensor Probe

- wide range of applications, suitable for e.g. air conditioning, food processing, heating and ventilating, agriculture, automobile, photography, food storage, refrigeration, laboratory, etc.
- memory of the last measured value
- low battery display
- sensor fault display
- auto power off after 15 min.
- switch between °C and °F
- temperature range: -50°C to +300°C (-58°F ~ +572°F)
- temperature steps: 0.1 °C
- accuracy: (-20°C - 80°C) +1°C
- power: 1.5V battery
- length of probe: 125 mm



Item #	 
8714	

## Magnetic Lifter, 500 mm

- flexible shaft
- strong magnet
- plastic handle, black
- length: 500 mm



Item #	Description
3151	Magnetic Lifter, Ø 10 mm, 1 kg magnetic force
3152	Magnetic Lifter, Ø 12.5 mm, 2 kg magnetic force
3153	Magnetic Lifter, Ø 16.5 mm, 3 kg magnetic force

## Claw / Magnetic Lifter / Light Combination Tool

- bright LED for good illumination
- strong magnet, lifts up to 500g
- length: 615 mm

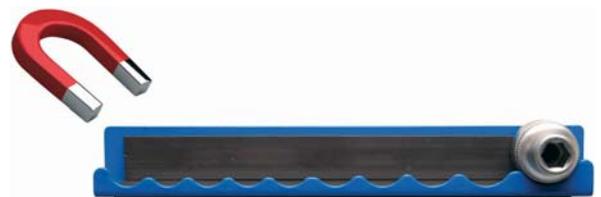


Item #	 
3174	

## Magnetic Holder for Sockets

- sockets are held by magnetic strip
- with strong holding magnet

- 3011-1 for holding 10x 1/4" sockets
- 3011-2 for holding 12x 3/8" sockets
- 3011-3 for holding 10x 1/2" sockets



Item #	Description
3011-1	Magnetic Holder for 1/4" Sockets
3011-2	Magnetic Holder for 3/8" Sockets
3011-3	Magnetic Holder for 1/2" Sockets

## 2-piece Bench Vise Jaw Protector, 125 mm

- allows a gentle clamping of sensitive workpieces such as aluminum, copper, etc.
- embedded magnetic stripe for holding the protection
- horizontally and vertically V-shaped profile
- sold without bench vice



Item #
3046



## Knee Protector Mat

- dimensions: 480 x 320 x 36 mm
- acid-resistant EVA foam



Item #
4800



## Fender Protection Cover

- for a professional, clean work
- protects fender from dirt and scratches
- upper edge with magnetic stripe



Item #
8581



## Tire Bead Retainer

- facilitates wheel mounting on rim
- dimensions: 290 x 150 x 50 mm
- material: 30% fiberglass



Item #
8655



## Magnetic Cup Holder

- can fit coffee mugs, pop cans, water bottles and more
- powerful magnet on backside
- diameter: 88 mm
- height: 188 mm

Item #
67160

**PRO**

## Workshop Trolley XL, empty

- heavy duty workshop finish
- heavy duty ball bearing castors, thereof 2 castors lockable
- lockable through central lock
- smooth-running, ball bearing drawers
- 11 drawers, fully extendable in following sizes:
  - 93 x 41 x 10 cm
  - 57 x 41 x 7 cm | 34 x 41 x 7 cm
  - 57 x 41 x 7 cm | 34 x 41 x 7 cm
  - 57 x 41 x 7 cm | 34 x 41 x 7 cm
  - 57 x 41 x 10 cm | 34 x 41 x 7 cm
  - 57 x 41 x 21 cm | 34 x 41 x 21 cm
- practical work plate, made of wood
- size: 107 x 108 x 48 cm
- weight: 116 kg

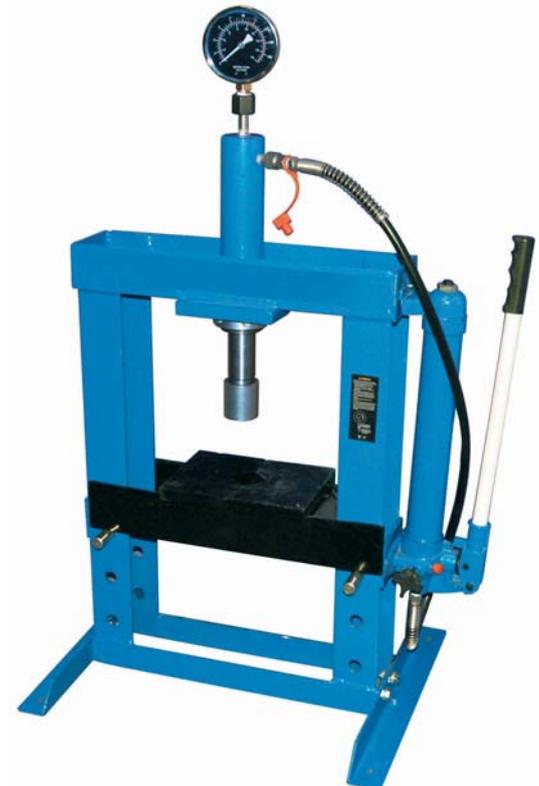
Item #
4110

**PRO +**

## Hydraulic Workshop Press 10 T

- for removal and installation of bearings, bushings, etc.
- suitable for fixed mounting on e.g. workbenches
- dimensions: (H) 1075 x (W) 620 x (D) 450 mm
- 3-way adjustable support beam
- can be used on workpieces up to following dimensions:
  - width: 345 mm
  - height: 170 to 330 mm
- stroke of hydraulic cylinder: 90 mm

Item #
9247

**PRO +**

## Farm Jack, 400 kg

- especially for off-road vehicles with a high ground clearance
- allows easy lifting, even when lifting on soft underground
- has a setback locking mechanism for actuating tube
- lifting capacity (max): 400 kg
- lifting height: min. 130 mm to max. 930 mm
- weight: 14.5 kg



Item #
2884



## Hydraulic Floor Jack, 3 To.

- 4 metal castors, 2 swivel castors
- max. load: 3,000 kg
- lifting height: 140 - 520 mm
- weight: 36,5 Kg
- dimensions: L660 x W344 x H180 mm (height without lifting tube)



Item #
9248



## Hydraulic Vehicle Positioning Jack, Lifting Capacity 600 kg

- easier to maneuver in the smallest space
- ideal for exhibitions, workshops and towing companies
- load capacity 600 kg per positioning jack
- tire width up to max. 330 mm
- ground clearance: 160 mm
- max. lifting roll distance: 610 mm (extended)
- min. lifting roll distance: 355 mm (retracted)
- dimensions: 650 x 620 mm



Item #
8604



## Engine / Gearbox Support

- secure support of engine or gearbox during assembly
- is required for e.g. disassembly of the engine mount, timing belt and replacement of clutch
- sturdy square tube construction
- feet and support plate are height adjustable and lockable
- rotatable retaining hooks, adjustable in height by hand wheel
- slidable and fixable crosspiece and retaining hook
- support plate with non-slip rubber pad
- especially suitable for large fender angle, where a mounting of engine bridge is very difficult
- suitable for many common vehicles
- length of the longitudinal beam: 690 up to 1050 mm
- max. retaining hook distance: 500 mm

Item #
8606

**PRO +**

## 40L Pneumatic Fuel Extracting Unit

- for extracting gasoline and diesel fuel
- allows an easy renewing of tanks, fuel pumps, tank sensors or emptying wrongly refilled tanks
- 3 suction tubes Ø 6 - 8 - 10 mm, 2 m long
- suction power: 5 l/min
- working pressure: 5 to 8 bar
- air consumption: 170 l/min
- air connection: 1/4"

Item #
8702

**PRO +**

## Parts Washer, 230V

- for cleaning of small parts
- cleaner brush is rinsed for best cleaning results
- W640 x D440 x H260 mm



Item #
8693



## 600 mm Folding Bench

- for folding of metal sheets up to 600 mm width and 1.2 mm thickness
- support for mounting in a bench vice



Item #
8687



## Oil Pan for Truck Axles

- for collecting oil during axle repairs
- suitable for rim inner diameter over 13-3/4" (350 mm)
- with side opening for draining the oil
- temperature range: -40 ° C to +80 ° C
- dimensions: 316 x 246 x 156 mm

Item #
8720

**PRO +**

## Sheet Metal Roll Shears

- suitable for sheets up to 1.6 mm thickness
- minimal space requirements
- suitable for mounting in a bench vice

Item #
8686

**PRO +**

## 4-in1 Tube Bending Pliers

- allows bending of pipes up to 180°
- 3 bending radii for pipe diameters  
3/16" (4,8 mm) - 1/4" (6.4 mm)  
5/16" (8,0 mm) - 3/8" (9.5 mm)
- suitable for aluminum, copper and thin steel pipes
- material: rolls made of aluminum, basic unit made of steel
- dipped coated grip

Item #
8718

**PRO +**

## Lever Pump for Plastic Barrels

- for transferring liquids from plastic barrels with screw connection, 56,5 - 58,5 mm
- suitable for oil, coolant, etc.
- 50" oil-resistant flexible hose
- with non-drip nozzle and a drain back nozzle holder
- self-priming down-stroke style pump
- capacity: 60 cc / stroke
- max. fluid temperature: 140°F (60°C)

Item #
8754

**PRO**

## Roller Cabinet Tool Trays

- tool tray made from high-resistance foam
- size: 570x410x30 mm
- suitable for e.g. BGS 4100 + 2001
- 4011-5 - replacement inlay for BGS 4011
- 4012-5 - replacement inlay for BGS 4012
- 4013-5 - replacement inlay for BGS 4013
- 4014-5 - replacement inlay for BGS 4014
- 4015-5 - replacement inlay for BGS 4015
- 4016-5 - replacement inlay for BGS 4016
- 4017-5 - replacement inlay for BGS 4017
- 4020-5 - replacement inlay for BGS 4020

PRO +

Item #	Description
4011-5	Tool Tray for Pliers, Hammer, Pin Punch
4012-5	Roller Cabinet Tool Tray for Combination and E-Type Ring Spanners
4013-5	Roller Cabinet Tool Tray for T- Handle Socket Wrench
4014-5	Roller Cabinet Tool Tray for Screwdriver
4015-5	Roller Cabinet Tool Tray for Ratchet and Sockets
4016-5	Roller Cabinet Tool Tray for Open End / Ring / Ratchet Spanner
4017-5	Roller Cabinet Tool Tray for Bits / Bit Sockets
4020-5	Roller Cabinet Tool Tray for Sockets and Combination Spanner



## 1/2" Torque Wrench for Right and Left Side Operation, 70 - 350 Nm

- suitable for tightening right- and left-hand thread screws
- "Go-thru" square head for changing the direction
- automatic triggering by click signal
- lockable torque value
- length: 650 mm



Item #  
2798

PRO +

## 1/4" Torque Wrench, 2 - 10 NM

6.3 1/4

- 1/4" square drive head
- auto-locking
- click signal when torque setting is reached
- particularly suitable for tightening the sensors of Tire Pressure Monitoring Systems (TPMS)



Item #  
8661

PRO +

## 1/2" Impact Wrench, 678 Nm

12.5 1/2

- square drive: 1/2"
- working torque: 515 Nm
- max. torque: 678 Nm
- free speed: 11,000 RPM
- working pressure: 90 psi
- impact mechanism: twin hammer
- air consumption Ø: 5.8 CFM
- air inlet: 1/4"
- recommended hose size: 3/8"
- weight: 1.6 kg
- short, lightweight design

Item #
3245



## Air Grinder / Cut Off Tool, 310 mm

- lightweight aluminum housing
- 2-component soft handle
- steel guard protects you from sparks
- lever block trigger for safety
- with rear exhaust
- cutting disc size: Ø 75 mm
- working pressure: 90 psi
- air inlet: 1/4"
- max. speed: 18,000 rpm
- length: 310 mm

Item #
3287



## 3-in-1 Air Multi-Functional Tool

- versatile 3-in-1 air tool: Delta Sander - Saw - Scraper
- powerful operation
- perfect for working in hard to reach areas and close to corners
- triangular sanding pad: 3" (45°)
- diamond cutting disc
- air pressure: 90 psi
- air inlet: 1/4" -18 NPT
- maximum oscillations: 18,000 rpm
- air consumption 6.0 cfm
- noise LpA: 86 dB(A) - LwA: 97 dB(A)
- vibration: 3,62 m/s<sup>2</sup>



Item #	Description
8580	3-in-1 Air Multi-Functional Tool
8580-2	Abrasive Pads for BGS 8580
8580-3	Scraper Set for BGS 8580
8580-4	Saw Blade for BGS 8580, offset
8580-5	Abrasive Pad Holder for BGS 8580



## Air Filter/Oiler Unit with Pressure Regulator

- for filtering and oiling of compressed air
- can be screwed on a wall
- max. pressure: 15 bar (220 psi)
- air inlet and outlet: 1/4" thread
- pressure gauge adjustable 0 to 10 bar (0 - 150 psi)
- oil adjustable in 10 steps



Item #
8603



## Professional Sand Blasting Gun

- perfect for all applications around the car body and all other metal surfaces
- for removing old paint, rust, dirt etc.
- can be used with brown aluminum oxide and grain sizes from #46 - #100
- easy-to-use, low consumption as tool re-uses the grit
- 4 different nozzles included
  - surface nozzle
  - inside corner nozzle
  - outside corner nozzle
  - panel spot nozzle
- aluminum cup size: 1000 c.c.
- material: aluminum alloy, enameled



PRO +

Item #	Description
8593	Professional Sand Blasting Gun
8593-1	Blasting Sand 46# (Fepa 220) for BGS 8593

## Air Cutter, 75 mm

- handy, short design
- adaptor for following cutting discs included: 3" Ø, 3/8" bore, 1/16" thickness
- free speed: 20,000 rpm
- average air consumption: 4.5 CFM
- required air pressure: 90 PSI
- air inlet: 1/4"
- recommended air hose: 3/8" (inside diameter)
- overall dimensions: 185 x 80 mm
- weight: 0.78 kg



Item #	Description
3286	Air Cutter, 75 mm
3286-1	Cutting Disc, 75 mm



## Air Riveter

- for easy and quick riveting
- suitable for rivet sizes 2.4 - 3.2 - 4.0 - 4.8 mm
- pulling power: 720 Kg
- air consumption: 0.86 l/min
- stroke: 14 mm
- air inlet: 1/4"
- working pressure: 6.2 bar

Item #
3284



## Air Eccentric Sander

- for sanding surfaces
- with air hose and dust bag
- sanding pad: Ø 6"
- free speed: 10000 rpm
- sanding stroke: 5 mm
- air inlet: 1/4"
- air suction hose: 3/8"
- air consumption: 4.5 cfm
- working pressure: 6.3 bar
- length: 225 mm
- weight: 1 kg

Item #
8688



## Air Paint Spray Gun

- suitable for painting car and machine parts
- aluminium body
- chromed surface
- 500 ccm cup, with filter
- stainless nozzle (1.4 mm)
- air inlet: Euro type quick connector
- max. pressure: 87 PSI
- working pressure: 30 to 43 PSI
- air consumption: 14.5 cfm
- noise level: 74.8 db(A)
- temperature range: 5 to 40°C

Item #
3317



## Air Blow Gun with Flow Regulator

- adjustable air flow
- 110 mm nozzle
- material: aluminum alloy
- air supply can be attached to handle or top of the gun
- non-slip handle
- includes 1/4" air connector
- max. pressure 10 bar, operating pressure 6.3 bar
- noise level: 86 dB
- air consumption: up to 320 l/min



Item #	PRO +	
8706		

## Air Blow Gun, 165 - 300 mm

- length: 165 - 300 mm (adjustable)
- working pressure: 6.2 - 8 bar (90 - 120 psi)
- max. pressure: 15 bar (217 psi)
- air inlet: 1/4"
- noise: max. 73 dBA



Item #	PRO +	
8801		

## Air Sandblasting Cabinet, illuminated

- for sandblasting / cleaning of surfaces with e.g. dry glass beads or plastic granule abrasives
- suitable for part size up to 66 x 53 x 49 cm
- sealed cabinet with lid and viewing window, mounted gloves and cabinet air filters, to prevent the escape of abrasive material
- saves blasting material, prevents workplace contamination
- includes blasting gun and 4x different nozzle, replaceable protective film for viewing window
- working pressure: 6.2 bar
- dimensions: W585 x H(front 415) (rear 485) x D495 mm



Item #	PRO +	
8717		

## Retractable Air Hose Reel, 15 m

- suitable for mounting on wall, floor and ceiling
- with hose stop, auto retracting
- hose diameter: 3/8"
- hose length: 50'
- air inlet (F): 3/8" NPT
- air outlet (M): 3/8" NPT
- maximum pressure: 300PSI
- maximum air flow: 25 CFM

Item #
8584

**PRO +**

## Wire Rope Winch, 270 kg

- for mounting on boat trailer, etc.
- rope Ø: 4.2 mm
- length of rope: 8 m
- capacity: 270 kg (275 daN)
- gear ratio: 3.1:1

suitable for pulling loads only, not for lifting

Item #
3485

**PRO +**

## Battery Emergency Switch, 300A

- for separating the battery from the electrical system
- is used in motor sports, construction machines
- prevents battery drain
- 2 mounting holes
- protective cap prevents entry of moisture
- incl. 2 keys with hole for operating cable

Item #
80756

**PRO +**

## Battery Adapter, angled

- for disconnecting the battery when not used for a prolonged period
- can also be used to prevent theft of a car
- suitable for batteries with round terminals

Item #
1415

**PRO +**

## Battery Adapter, flat

- for disconnecting the battery when not used for a prolonged period
- can also be used to prevent theft of a car
- suitable for batteries with flat terminals

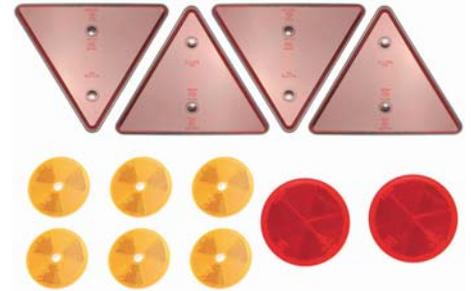


Item #
1416



## 12-piece Trailer Reflector Set

- 4x triangle reflector, red, 160 mm
- 2x round reflector, red, Ø 80 mm
- 6x round reflector, yellow, Ø 60 mm
- including nuts and screws
- E4 approved



Item #
8635

