

**KL-0190-25****Unlocking Tool**

Suitable e.g. for VW-Audi, BMW, Ford, Skoda, Opel/Vauxhall, Porsche, Mercedes as well as Becker, Blaupunkt, Grundig etc.

Necessary to release car radios and navigation systems locking mechanisms.

Technical Data:

Field of Application	Qty.
Blaupunkt (new)	2
Skoda (new)	2
Becker (new)	2
Opel, BMW	2
VW	2
Becker, Porsche, Mercedes	2
VW, Audi, Mercedes, Becker	4
BMW	2
VW, Ford, Audi, Blaupunkt, Grundig	2



Note:
The tool set is supplied in a plastic bag.

KL-0193-80**Set of Air Cushions (5 pieces)****Universally applicable to position, fix and dismantle body parts.**

The set of air cushions **KL-0193-80** enables easy, problem-free and accurate positioning, fixing and dismantling of body parts, interior trim etc.

The different shapes of the 4 air cushions allow their application in the most different places and operative ranges.

Advantages:

- Universally applicable thanks to different shapes.
- Safe and accurate positioning.

Scope of Delivery:**KL-0193-80 Set of Air Cushions (5 pieces)**

Part No.	Description	Qty.
KL-0193-8001	Air pump	1
KL-0193-8002	Air cushion (square) 155x155 mm	1
KL-0193-8003	Air cushion (rectangular) 180x45 mm	1
KL-0193-8004	Air cushion (rectangular) 185x55 mm	1
KL-0193-8005	Air cushion (kidney-shaped) 315x110 mm	1

KL-0197-30**Wing Protective Cover**

Universally applicable on both sides of the vehicle.
Protects against scratches or other damage to wings.

Material:

Foam-backed artificial leather with artificial leather lining and magnetic adhesion.

Dimension:

1100 x 650 mm with wheel cut-out.



Wiper-Arm Puller Set

(German Utility Model)

KL-0198-90 KB

Suitable e.g. for W-Audi, BMW, Citroën Ford, Mercedes, Opel/Vauxhall, Peugeot, Renault etc.

Tool for the removal of bolted windscreen wiper-arms, especially useful when they have rusted or seized corroded on the shaft.

Even tight-fitting wiper-arms or those that are deeply built-in can be easily and without any problems be removed by using the Puller Set **KL-0198-90 KB**.

Wiper-arms at the rear window with integrated screen-wash nozzles, such as on VW-Audi, BMW etc., can be removed with the corresponding slide hammer.

Wiper-arms with centre holes are extracted with the pressure spindle. Wiper-arms without centre holes are removed by putting the included press piece onto the pressure screw.



Scope of Delivery:

KL-0198-90 KB Wiper-Arm Puller Set

Part No.	Description	Qty.
KL-0198-9008	Pressure Spindle	1
KL-0198-9009	Slide Hammer	1
KL-0198-901	Fork 1 (BMW, Citroën, Ford, Vauxhall/Opel, VW etc.)	1
KL-0198-902	Fork 2 (Citroën, Peugeot etc.)	1
KL-0198-903	Fork 3 (VW-Audi, Citroën Ford, Mercedes etc.)	1
KL-0198-904	Fork 4 (VW-Audi, BMW, Citroën, Mercedes, Vauxhall/Opel, Peugeot, Renault etc.)	1
KL-0198-905	Fork 5 (VW-Audi, BMW 1-Series, Citroën, Ford, Mercedes, Peugeot 307, Renault, VW Touareg, T5, etc.)	1
KL-0198-906	Fork 6 (VW-Audi, BMW, Ford etc.)	1
KL-0198-907	Fork 7 (BMW etc.)	1
KL-0198-909	Fork 9 (VW Golf V, T5 rear window wiper, Skoda Superb, Peugeot 206, 307, 806, etc.)	1
KL-0198-9090	Plastic Storage Case (empty)	1



Wiper-Arm Puller Set VW-Audi / Ford

(German Utility Model)

KL-0198-923 KA

Suitable e.g. for VW-Audi, Ford, etc.

Tool for the removal of bolted windscreen wiper-arms, especially useful when they have rusted or seized corroded on the shaft.

Even tight-fitting wiper-arms or those that are deeply built-in can be easily and without any problems be removed by using the Puller Set **KL-0198-923 KA**.

Wiper-arms at the rear window with integrated screen-wash nozzles can be removed with the corresponding slide hammer.

Wiper-arms with centre holes are extracted with the pressure spindle. Wiper-arms without centre holes are removed by putting the included press piece onto the pressure screw.



Scope of Delivery:

KL-0198-923 KA Wiper-Arm Puller Set VW-Audi / Ford

Part No.	Description	Qty.
KL-0198-901	Fork 1	1
KL-0198-903	Fork 3	1
KL-0198-904	Fork 4	1
KL-0198-905	Fork 5	1
KL-0198-906	Fork 6	1
KL-0198-909	Fork 9	1
KL-0198-9008	Spindle with press piece and screw cap	1
KL-0198-9009	Slide hammer with screw cap	1
KL-0198-9090	Plastic storage case (empty)	1



**Application List KL-0198-.. Series:****Alfa Romeo**

Model	front			Drive	rear	
	left	right	Drive		Drive	Drive
147 model 2005 onwards	KL-0198-901	KL-0198-901	KL-0198-9008			
147 model 2005 onwards	KL-0198-909	KL-0198-909	KL-0198-9008			
156 model 2004 onwards	KL-0198-905	KL-0198-905	KL-0198-9008	KL-0198-904	KL-0198-9009	
159 2006 model	KL-0198-909	KL-0198-909	KL-0198-9008			

Audi

Model	front			Drive	rear	
	left	right	Drive		Drive	Drive
80 1986 - 1996	KL-0198-904	KL-0198-904	KL-0198-9008			
A3	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-901	KL-0198-9008	
A3 2008 model	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-901	KL-0198-9009	
A4 up to 2001	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-904	KL-0198-9008	
A4 model 2001 onwards	KL-0198-913	KL-0198-913	KL-0198-9008			
A4 model 2001 onwards	KL-0198-906	KL-0198-906	KL-0198-9008	KL-0198-906	KL-0198-906	
A6 model 1997 - 2001	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-904	KL-0198-9008	
A6 (C6)	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-901	KL-0198-9009	

BMW

Model	front			Drive	rear	
	left	right	Drive		Drive	Drive
1 (E87)	KL-0198-905	KL-0198-905	KL-0198-9008			
3 Compact (E36) up to 1994	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-901	KL-0198-9008	
Z3	KL-0198-904	KL-0198-904	KL-0198-9008			
3 (E46) up to 1999	KL-0198-906	KL-0198-906	KL-0198-9008			
5 (E39) up to 1996	KL-0198-907	KL-0198-907	KL-0198-9008			
5 (E60)	KL-0198-901	KL-0198-906	KL-0198-9008			
X5 (E53) model 2000 - 2007	KL-0198-907	KL-0198-907	KL-0198-9008	KL-0198-907	KL-0198-907	
Mini One model 2003 onwards	KL-0198-905 / -907	KL-0198-905 / -907	KL-0198-9008	KL-0198-909 / -911	KL-0198-9009	
Mini One model 2007 onwards	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009	

Citroën

Model	front			Drive	rear	
	left	right	Drive		Drive	Drive
Berlingo	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-904	KL-0198-9009	
C5	KL-0198-903	KL-0198-903	KL-0198-9008	KL-0198-902	KL-0198-9008	
Evasion		KL-0198-904	KL-0198-9008	KL-0198-901	KL-0198-9009	
Saxo	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-902	KL-0198-9008	
Xsara	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-902	KL-0198-9008	

Fiat

Model	front			Drive	rear	
	left	right	Drive		Drive	Drive
500 model 2007 onwards	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-909 / -911	KL-0198-9009	
Seicento 2002 model	KL-0198-901	KL-0198-901	KL-0198-9008	KL-0198-909	KL-0198-9009	
Punto model 02/2006 onwards	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009	
Bravo model 2007 onwards	KL-0198-907	KL-0198-907	KL-0198-9008	KL-0198-911	KL-0198-9009	
Florino Qubo model 2008 onwards	KL-0198-905	KL-0198-905	KL-0198-9008	KL-0198-909 / -911	KL-0198-9009	
Doblo	KL-0198-911	KL-0198-911	KL-0198-9008	KL-0198-909	KL-0198-9009	
Ducato 2008 model	KL-0198-905	KL-0198-905	KL-0198-9008			
Grande Punto model 2006 onwards	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009	
Marea estate car model 1997 onwards	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-911	KL-0198-9009	
Multiplo 100 ELX 1999 model	KL-0198-907	KL-0198-907	KL-0198-9008	KL-0198-911	KL-0198-9009	
Panda model 09/2003 onwards	KL-0198-905	KL-0198-909	KL-0198-9008	KL-0198-909 / -911	KL-0198-9009	
Idea model 2003 onwards	KL-0198-911	KL-0198-911	KL-0198-9008	KL-0198-905	KL-0198-9009	
Scudo 270 model 2007 onwards	KL-0198-911	KL-0198-911	KL-0198-9008	KL-0198-911	KL-0198-9009	
Stilo 1.6 16V	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009	
Ulysse model 2002 onwards	KL-0198-905	KL-0198-905	KL-0198-9008	KL-0198-909 / -911	KL-0198-9009	

Ford

Model	front			Drive	rear	
	left	right	Drive		Drive	Drive
Fiesta model 1995 onwards	KL-0198-904	KL-0198-904	KL-0198-9008			
Fiesta model 2002 onwards	KL-0198-909	KL-0198-909	KL-0198-9008			
Fiesta 2009 model	KL-0198-904 / -905	KL-0198-904 / -905	KL-0198-9008	KL-0198-901	KL-0198-9009	
Focus model 11/2004 onwards	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-901 / -904	KL-0198-9009	
Focus 1998-2005 model	KL-0198-909	KL-0198-909	KL-0198-9008			
Focus Turnier 2004 model	KL-0198-909	KL-0198-909	KL-0198-9008			
Galaxy up to 2000	KL-0198-905	KL-0198-905	KL-0198-9008	KL-0198-901	KL-0198-9008	
Galaxy up to 2000	KL-0198-906	KL-0198-906	KL-0198-9008	KL-0198-904	KL-0198-9009	
Ka	KL-0198-903	KL-0198-903	KL-0198-9008			
KA 08/2002 - 01/2009 model	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009	
Mondeo up to 2001	KL-0198-904	KL-0198-904	KL-0198-9008			
Mondeo model 2001 onwards	KL-0198-904	KL-0198-904	KL-0198-9008			
Mondeo Turnier	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-911	KL-0198-9009	
Transit FT330 (rear drive)	KL-0198-901	KL-0198-901	KL-0198-9008	KL-0198-901	KL-0198-9009	

Honda

Model	front			Drive	rear	
	left	right	Drive		Drive	Drive
Civic 1.6i 2001 model	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-901	KL-0198-9009	

Mazda

Model	front			Drive	rear	
	left	right	Drive		Drive	Drive
3 2003 - 2008 model	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-909	KL-0198-9009	

Mercedes

Model	front			Drive	rear	
	left	right	Drive		Drive	Drive
A-Class (A-160) 1997-2004 model	KL-0198-902 / -904	KL-0198-902 / -904	KL-0198-9008	KL-0198-902 / -904	KL-0198-9009	
A-Class (A-160) 2001-2004 model	KL-0198-909	KL-0198-909	KL-0198-9008			
B-Class (B-170) 2007 model	KL-0198-901	KL-0198-901	KL-0198-9008	KL-0198-901 / -909	KL-0198-9009	
C-Class Lim. (W203) model 2003 on.	KL-0198-905 / -909	KL-0198-909	KL-0198-9008			
C-Class C180 T estate car model 01 on.	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-904	KL-0198-9008	
E-Class (W211)	KL-0198-904 / -909	KL-0198-905 / -906	KL-0198-9008			
M-Class (W163) 1997-2005 model	KL-0198-903 / -909	KL-0198-903 / -909	KL-0198-9008	KL-0198-909	KL-0198-9008	
SLK	KL-0198-903	KL-0198-903	KL-0198-9008			
V-Class	KL-0198-903	KL-0198-903	KL-0198-9008	KL-0198-903	KL-0198-9008	
Vito (W639)	KL-0198-903 / -905	KL-0198-903 / -905	KL-0198-9008			

Nissan

Model	front			Drive	rear	
	left	right	Drive		Drive	Drive
X-Trail T30, 2.2D	KL-0198-907	KL-0198-907	KL-0198-9008	KL-0198-905	KL-0198-9009	
Qashqai 1.6i petrol 2010 Model	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009	



Application List KL-0198-.. Series:

Opel/Vauxhall

Model	front		Drive	rear	
	left	right		Drive	Drive
Astra F model 1992 - 2000 onwards	KL-0198-901 / -909	KL-0198-901 / -909	KL-0198-9008	KL-0198-901 / -909	KL-0198-9008
Astra G	KL-0198-904	KL-0198-904	KL-0198-9008	No puller required at the rear.	KL-0198-9009
Astra G estate car	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-901	KL-0198-9008
Corsa B 1993 - 2000 model	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-901	KL-0198-9009
Corsa C 09/2000 - 2006 model	KL-0198-902 / -904	KL-0198-902 / -904	KL-0198-9008	KL-0198-904 / -909	KL-0198-9008
Corsa D 2007 model	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9008
Vectra B 1.6 16V 1995 - 2001 model	KL-0198-901	KL-0198-901	KL-0198-9008		
Zafira model 1999 onwards	KL-0198-904 / -909	KL-0198-904 / -909	KL-0198-9008	KL-0198-901 / -909	KL-0198-9008
Zafira B model 2005 onwards	KL-0198-903 / -905	KL-0198-903 / -905	KL-0198-9008	KL-0198-903	KL-0198-9008

Peugeot

Model	front		Drive	rear	
	left	right		Drive	Drive
106	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-902	KL-0198-9008
206 model 1998- onwards	KL-0198-904 / -905	KL-0198-904 / -905	KL-0198-9008	KL-0198-904	KL-0198-9009
207 model 2006- onwards	KL-0198-905	KL-0198-905	KL-0198-9008	KL-0198-901	KL-0198-9009
306	KL-0198-904	KL-0198-904	KL-0198-9008		
307 model 2005 onwards	KL-0198-905	KL-0198-905	KL-0198-9008	KL-0198-902	KL-0198-9008
307 CC model 2004- onwards	KL-0198-905	KL-0198-905	KL-0198-9008		
308 model 2008 onwards	KL-0198-905	KL-0198-905	KL-0198-9008	KL-0198-901	KL-0198-9009
406	KL-0198-905	KL-0198-905	KL-0198-9008	KL-0198-902	KL-0198-9008
407 SW model 2004 onwards	KL-0198-909	KL-0198-909	KL-0198-9008		
407 estate car	KL-0198-909	KL-0198-909	KL-0198-9008		
4007 SUV model 2009- onwards	KL-0198-911	KL-0198-911	KL-0198-9008	KL-0198-911	KL-0198-9009
605	KL-0198-904	KL-0198-904	KL-0198-9008		
Bipper	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-911	KL-0198-9009
Partner	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-901	KL-0198-9009

Renault

Model	front		Drive	rear	
	left	right		Drive	Drive
Clio model 1998 onwards	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-904	KL-0198-9008
Clio II	KL-0198-904 / -905	KL-0198-904 / -905	KL-0198-9008	KL-0198-911	KL-0198-9009
Clio III model 2007 onwards	KL-0198-907	KL-0198-907	KL-0198-9008		
Espace model 1996 onwards	KL-0198-905	KL-0198-904 / -905	KL-0198-9008	KL-0198-904	KL-0198-9008
Kangoo	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-904	KL-0198-9008
Laguna	KL-0198-904	KL-0198-904	KL-0198-9008		
Laguna Kombi	KL-0198-904	KL-0198-904	KL-0198-9008		
Laguna II	KL-0198-909	KL-0198-909	KL-0198-9008		
Mégane model 1999 onwards	KL-0198-905	KL-0198-905	KL-0198-9008		
Mégane Limousine	KL-0198-905	KL-0198-905	KL-0198-9008	KL-0198-904	KL-0198-9008
Mégane model 2003 onwards	KL-0198-904 / -909	KL-0198-904 / -909	KL-0198-9008		
Modus	KL-0198-901 / -909	KL-0198-901 / -909	KL-0198-9008		
Modus model 2004 onwards	KL-0198-901 / -909	KL-0198-901 / -909	KL-0198-9008		
Scenic I 1999 - 2003 model	KL-0198-905 / -907	KL-0198-905 / -907	KL-0198-9008	KL-0198-909 / -911	KL-0198-9009
Scenic II model 2003 onwards	KL-0198-905	KL-0198-909	KL-0198-9008	KL-0198-912	KL-0198-9009
Twingo model 2001 onwards	KL-0198-901	KL-0198-901	KL-0198-9008	KL-0198-901 / -909	KL-0198-9008
Twingo	KL-0198-904 / -909	KL-0198-904 / -909	KL-0198-9008		
Trafic II	KL-0198-909	KL-0198-909	KL-0198-9008		

Škoda

Model	front		Drive	rear	
	left	right		Drive	Drive
Fabia II model 2007 onwards	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-904 / -909	KL-0198-9009
Superb model 2008 onwards	KL-0198-909	KL-0198-909	KL-0198-9008		
Roomster	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-904	KL-0198-9009
Oktavia 1Z	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009

Seat

Model	front		Drive	rear	
	left	right		Drive	Drive
Arosa model 1997 onwards	KL-0198-901	KL-0198-901	KL-0198-9008	KL-0198-904	KL-0198-9009
Ibiza 6J model 2008 onwards	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009

Smart

Model	front		Drive	rear	
	left	right		Drive	Drive
for four 2004 - 2006 model	KL-0198-901	KL-0198-901	KL-0198-9008	KL-0198-901	KL-0198-9009

Toyota

Model	front		Drive	rear	
	left	right		Drive	Drive
Aygo model 2009 onwards	KL-0198-901	KL-0198-901	KL-0198-901	KL-0198-901	KL-0198-9009

VW

Model	front		Drive	rear	
	left	right		Drive	Drive
Beetle	KL-0198-909	KL-0198-909	KL-0198-9008		
Fox	KL-0198-901	KL-0198-901	KL-0198-9008	KL-0198-904	KL-0198-9009
Golf III	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-904	KL-0198-9009
Golf IV	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009
Golf V	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009
Golf VI	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-904	KL-0198-9009
Lupo	KL-0198-901 / -904	KL-0198-901 / -904	KL-0198-9008	KL-0198-901 / -904	KL-0198-9009
Lupo model 2002 onwards	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009
Scirocco model 2008 onwards	KL-0198-907	KL-0198-907	KL-0198-9008	KL-0198-904	KL-0198-9009
Passat up to 2000	KL-0198-903	KL-0198-903	KL-0198-9008	KL-0198-904	KL-0198-9009
Passat model 2001 onwards	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-904	KL-0198-9009
Passat CC model 2008 onwards	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-904	KL-0198-9009
Polo up to 1999	KL-0198-901	KL-0198-901	KL-0198-9008	KL-0198-901	KL-0198-9008
Polo 1999 - 2001 model	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-904	KL-0198-9009
Polo model 2001 onwards	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009
Polo (6R1) model 2009 onwards	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-904	KL-0198-9009
Sharan up to 2000	KL-0198-905	KL-0198-905	KL-0198-9008	KL-0198-901	KL-0198-9008
Sharan model 2000 onwards	KL-0198-906	KL-0198-906	KL-0198-9008	KL-0198-904	KL-0198-9009
T5	KL-0198-905	KL-0198-905	KL-0198-9008	KL-0198-909	KL-0198-9009
Tiguan model 2008 onwards	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009
Touran model 2003 onwards	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009
Touareg	KL-0198-906 / -909	KL-0198-906 / -909	KL-0198-9008	KL-0198-906 / -909	KL-0198-9009

**KL-0198-913****Windscreen Wiper-Arm Puller Fork**

Suitable e.g. for wiper-arms on front windows on Audi A4 (Model 2000 - 2007).

This tool enables the quick and easy removal of bolted windscreen wiper-arms, even when they have rusted or seized on the shaft. It is used in conjunction with the pressure spindle **KL-0198-9008**.

When removing wiper-arms with integrated screen-wash nozzles the pressure spindle is replaced with the optionally available slide hammer **KL-0198-9009** (included in tool set **KL-0198-90 KB**).

KL-0198-928**Windscreen Wiper-Arm Puller**

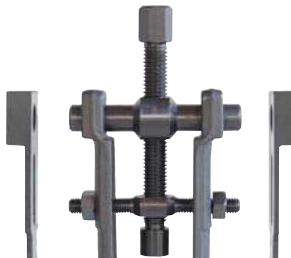
Suitable e.g. for wiper arms on rear windows on Renault Espace IV, Laguna II, Modus, Scenic II.

This tool enables the quick and easy removal of bolted windscreen wiper-arms, even when they have rusted or seized on the shaft.

When removing wiper-arms with integrated screen-wash nozzles the spindle **KL-0198-9003** is replaced by the optional slide hammer **KL-0198-9009** (included in tool set **KL-0198-90 KB**).

Scope of Delivery:**KL-0198-928 Windscreen Wiper-Arm Puller**

Part No.	Description	Qty.
KL-0198-912	Fork 12	1
KL-0198-9003	Spindle M12 x 60	1
KL-0198-9004	Press piece	1

KL-0198-80**Wiper-Arm Puller****Universally suitable.**

Its special shape, the two different hook couples (with extra thin straight tips and rounded tips) and the adjusting nut make this puller almost universal in its range of application.

Technical Data:

Drive:	14 mm
Hook width (straight tip):	15 mm
Hook width (straight tip):	2.3 mm
Hook width (rounded tip):	26.5 mm
Hook thickness (rounded tip):	2.6 mm
Pulling-Ø max:	45 mm
Weight:	560 g

KL-0570-20**Special Torx® Socket T80****Suitable for BMW E31, E38 and E39.**

Necessary for the removal and installation of windscreen wiper arms. It can also be used for adjusting the pressure, for example, when replacing the windscreen. This special Torx® nut is hollow-drilled on the inside to retain the wiper-arm bearing axis.

Technical Data:

Drive:	1/2"
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9**KL-0126-33****Windscreen Washer Jet Needle****Universal application.**

Designed to clean and adjust windscreen washer jets.

Technical Data:

Weight:	40 g
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Slide Hammer 4.8 kg, (Base Tool)

KL-0049-300

The ideal tool for extracting stuck or tight-fitting components such as half-shafts, universally jointed drive shafts, injector nozzles etc. It is used in conjunction with the specified adaptors and puller bolts.

Scope of Delivery:

KL-0049-300 - Slide hammer 4.8 kg, base tool



Part No.	Description	Qty.
KL-0049-3001	Tie rod for KL-0049-3	1
KL-0049-3002	Hammer weight 4.8 kg for KL-0049-3	1
KL-0049-3003	Handle for KL-0049-3	1
KL-0049-3004	Hex nut M18	1

Hook

KL-0049-3020

Used in conjunction with the slide hammer **KL-0049-31**. for pulling chassis parts.



Clip with Hook and Joint

KL-0049-350

Designed to pull body panels. Used in conjunction with the slide hammer puller **KL-0049-31** or **KL-0049-300**. The forged clip **KL-0049-3500** has an automatic self stress on the cone. Its field of application is a pulling force of up to 20 t. The forged hook **KL-0049-3501** made of hardened and tempered steel is suitable to any chain end of any make. When the chain is moved or remounted, it does not twist but it runs back parallel to itself. The clip **KL-0049-3500** is connected to slide hammer puller **KL-0049-31** or **KL-0049-300** by means of the hook **KL-0049-3501** and joint **KL-0049-3502**.



Scope of Delivery:

KL-0049-350 Clip with Hook and Joint

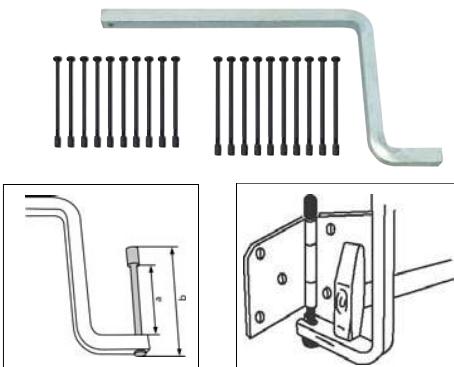
Part No.	Description	Qty.
KL-0049-3500	Clip	1
KL-0049-3501	Hook	1
KL-0049-3502	Joint M18	1

Door Hinge Removal Tool

KL-0190-6 A

Application: Opel/Vauxhall, Ford, Peugeot, Citroën.

For removal and replacement of door hinge pins.



Scope of Delivery:

KL-0190-6 Door Hinge Removal Tool

Part No.	Description	Application:	a:	b:
KL-0190-60	Door hinge removal handle without pulling bolt			
KL-0190-61	Pulling Bolts for Ø 5 mm (10 units)	Opel/Vauxhall, Ford, Peugeot, Citroën, etc.	103 mm	72 mm
KL-0190-62	Pulling Bolts for Ø 4 mm (10 units)	Ford, Citroën, etc.	118 mm	87.5 mm

Telescopic Magnetic Lifter with Scriber

KL-0126-205

This telescopic magnet lifter enables metallic objects or particles to be removed even from hard-to-reach areas. The **KL-0126-205** magnetic lifter is ideal for lifting valve collets.

Technical Data:

Magnetic head -Ø	7.5 mm
Magnet power	300 g
Length	150 - 670 mm
Weight	28 g



**KL-0270-3 C****Wrench with 8 Bit Inserts****Suitable for Door Hinge Bolts**

e.g. Audi (97 - onwards); Renault Safrane, Laguna; Seat Arosa, Cordoba, Ibiza; VW Golf (III und IV), Passat (97 onwards), Polo, Vento; Škoda etc.

Designed to quickly and easily loosen and tighten the bolts in door hinges.

Suitable for Mercedes Toe Adjustment

e.g. 190 Series (W201), C-Class (W202, W203), 200 - 300 E (W124), E Class (W210, W211), S-Class (W220)

Designed to adjust the toe on the rear axle. Due to its special form, this tool allows the user to easily and accurately adjust the hard-to-reach adjustment bolt.

Technical Data:

Size:	5/16"
Bit-Inserts:	T30, T40, T45, T50, T55, XZN-8, XZN-10, XZN-12
Length:	310 mm
Weight:	430 g
Bit-Drive:	5/16"

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KL-0270-31 C**Wrench with 8 Bit Inserts****Suitable for Door Hinge Bolts**

e.g. Audi (97 - onwards); Renault Safrane, Laguna; Seat Arosa, Cordoba, Ibiza; VW Golf (III und IV), Passat (97 onwards), Polo, Vento; Škoda etc.

Designed to quickly and easily loosen and tighten the bolts in door hinges.

The wrench **KL-0270-31 C**, thanks to its special shape, allows the easy loosening and tightening of door hinge bolts.

Suitable for Mercedes Toe Adjustment

e.g. 190 Series (W201), C-Class (W202, W203), 200 - 300 E (W124), E Class (W210, W211), S-Class (W220)

The wrench **KL-0270-31 C** is the ideal tool for setting the toe at the rear axle. Due to its special shape, this tool allows the user to easily and accurately turn the adjusting screw that is particularly hard to access.

Technical Data:

Bit-Inserts:	T30, T40, T45, T50, T55, XZN-8, XZN-10, XZN-12
Bit-Inserts (height):	20 mm
Bit-Drive:	5/16"
Length:	320 mm
Weight:	500 g

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KL-0270-304**Bit-Insert Set 8 pcs.**

Consists of 5/16" Drive Bit-Inserts:

(Torx®) T30, T40, T45, T50, T55,
XZN-M8, XZN-M10, XZN-M12

® = reg. trademark of Acument Intellectual Properties, LLC. USA

9**KL-0120-80****Fuel Sensor Spanner Set (adjustable)****Universal application.**

For loosening and tightening the plastic locking ring of the fuel sensor on the fuel tank.

Scope of Delivery:**KL-0120-80 Fuel Tank Sender Spanner Set adjustable**

Part No.	Description	Range:	Drive:
KL-0120-801	Fuel sensor spanner Ø80 mm - Ø120 mm	80 - 120 mm	24 mm
KL-0120-802	Fuel sensor spanner Ø110 mm - Ø170 mm	110 - 170 mm	24 mm



Slotted Nut Spanner Set (3 pcs.)

KL-0272-10

Suitable for: VW Polo, Sharan; Ford Galaxy; Seat Alhambra.

For the quick and easy loosening and tightening of the slotted nut retaining the multi-pin electric socket on the door-pillar.

Required when the door needs to be removed.

Size	Application examples
Size 1	VW Polo front door VW Sharan, Ford Galaxy, Seat Alhambra rear door
Size 2	VW Sharan, Ford Galaxy, Seat Alhambra up to 2000 front door
Size 3	VW Sharan, Ford Galaxy, Seat Alhambra from 2001 front door



Removal Tool for Car Door Handle

KL-0273-10

Suitable for: VW Golf (VI), Fox, Tiguan, Passat (3C) etc.

For removing the cover cap on car door handles without key cylinder.

Required for removing the door handle.

This removal tool for car door handle allows trouble-free loosening of the hard-to-reach locking hook.



Technical Data:

Length:	240 mm
Weight:	70 g

Headlight Adjusting Tool

KL-0271-1

Suitable for: VW Golf (III) and Vento.

Technical Data:

Length:	300 mm
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Screwdriver XZN M4

KL-0270-2

Suitable for door handle VW Passat from 96 onwards and Golf (IV).



Screwdriver Torx® T25

KL-4305-6225

For removal and replacement of VW Sharan Headlamps from 2000 onwards.

For removal and replacement of VW Sharan headlights from 2000 onwards.

Technical Data:

Length	300 mm
Weight	70 g

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Torx® Screwdriver with T-Handle T30 x 350 mm

KL-4306-6330

For the front mudguard fixing bolts on e.g. Audi A4, A6; BMW (3 series E36/E46, 7 series E38).

This tool is required to allow the front mudguards to be removed and replaced without the need to remove the front doors. The long, slim form of the tool allows the recessed Torx® Bolts in the A-post to be removed and replaced through the door-opening.



For removal and replacement of Audi (A4, A6) Headlamps.

The long, slim form of this T-handle allows the Torx® Bolts on the headlamps to be quickly and easily reached.

For removal and replacement of the door panelling e.g. BMW (3 series E36, 5 series E60)

Technical Data:

Length:	350 mm
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9

**KL-4306-8320****5-point Screwdriver with T-Handle (T20 x 260 mm)****Suitable for Mercedes.**

The length and narrow shape of the **KL-4306-8320** five-star screwdriver makes it ideal for removing and installing outside mirrors on Mercedes vehicles.

Technical Data:

Weight:	100 g
Size:	T20
Shaft Length:	220 mm
Overall length:	260 mm

Note:

The following retaining screws are used on Mercedes vehicles with the outside mirror shown here:
OEM = Torx® T20 (KL-4306-6320) or 5-point T20
MB spare part = 5-point T20

® = reg. trademark of Acument Intellectual Properties, LLC. USA

KL-4305-6220**Screwdriver Torx® T20****For removing and replacing the door handle Mercedes A-Class and C-Class.**

The long, slim form of this Screwdriver allows the Torx® -Bolts on the door handle to be quickly and easily reached.

Technical Data:

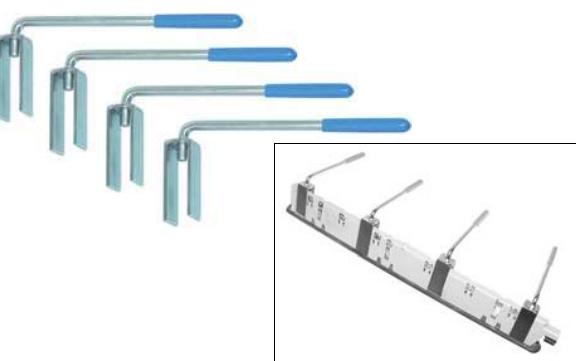
Length:	300 mm
Weight:	60 g

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KL-0375-10**Needle Set for Tail Gate Lock****Suitable for Mercedes C-Class (W203) Tail gate lock.**

For quick and easy removal of the Locking Cylinder from the Tail gate Lock mechanism.

The Set consists of 2 Pins made from stainless steel (V2A).

KL-0374-30**Removal Tool Set (4 pcs.)****Suitable for Mercedes C-Class (W203) Tail gate lock.**

For the quick and easy removal of the locking cylinder from the tail gate lock mechanism.

The set consists of 2 needles made of stainless steel (V2A).

9**KL-0374-1****Toothed Socket for Distance Sensor****Suitable for Mercedes S-Class (W140) and E-Class (W210).**

For removal and replacement of the distance sensors which are built-in to the front and rear bumpers. The tool not only allows removal and replacement, but also mounting the distance sensor with the correct tightening torque.

Technical Data:

Drive:	3/8"
Length:	135 mm

Rivet Removal Pliers

KL-0190-41

With 90° swivelling head.

Designed to open the re-usable two-part plastic body-bound rivets; for example on plastic or door trims.

By lifting the central spreader pin with the Pliers **KL-0190-41** the Plastic Rivet may be withdrawn.



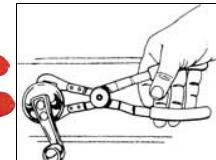
Door Handle Clip Pliers

KL-0190-7

Universal application.

For the removal of Omega retaining clips, for example, on sun visors, rear-view mirrors, window cranks etc.

Using this tool prevents damage to sun visors, door trims etc.



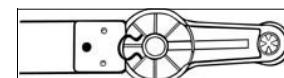
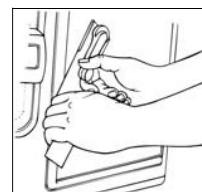
Window and Door Handle Clip Remover/Installer

KL-0190-81

Universally suitable.

For removal and replacement of the Omega Retaining Clips on Door-handles, Window-winders, etc.

The tool prevents damage to Visors, Head-linings, Doorlinings, etc.

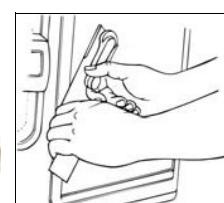


Window and Door Handle Clip Remover/Installer

KL-0190-82

Universally suitable.

Designed to remove and replace the Omega retaining clips found on door handles, window winders, etc.



Trim Pry

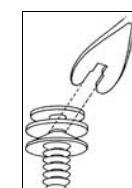
KL-0190-10

Universal application.

For the removal of trims such as door inner-linings etc. that are fixed by plastic trim clips.

Technical Data:

Weight:	200 g
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**KL-0190-4****Door Trim Pliers****(Universal)****Universal application.**

Particularly suitable for trim components such as door trims etc. that are fixed by plastic plugs.

Pliers can also be used for trim strips, bumper rubber linings, etc.

KL-0194-130 A**Set of Plastic Wedges (4 pcs.)****Scope of Delivery / Technical Data:****KL-0194-130 A Set of Plastic Wedges (4 pcs.)**

Part-No.	Description	Weight	Measures [mm] L x W x H
KL-0194-13 A	Plastic wedge with felt	75	255 x 20 x 25
KL-0194-14 A	Plastic wedge with straight and sloping tip	35	250 x 20 x 10
KL-0194-15 A	Plastic wedge	75	200 x 30 x 25
KL-0194-16 A	Plastic wedge angled with cutout and pin (for door clips)	55	230 x 22 x 8

KL-0194-131 A**Set of plastic wedges (3 pcs.)**

The three plastic wedges are particularly suitable for body work such as removing and installing trim strips, door trims, door clips etc.

Scope of Delivery / Technical Data:**KL-0194-131 A Set of plastic wedges (3 pcs.)**

Part-No.	Description	Weight	Measures [mm] L x W x H
KL-0194-13 A	Plastic wedge with felt	75	255 x 20 x 25
KL-0194-14 A	Plastic wedge with straight and sloping tip	35	250 x 20 x 10
KL-0194-15 A	Plastic wedge	75	200 x 30 x 25

KL-0194-100**Nylon Lever Set**

This Nylon Lever Set is particularly suitable for removing trim strips, door trims, windscreen rubber seals, etc.

No damage to glass, paintwork and door trims thanks to nylon levers.

Scope of Delivery / Technical Data:**KL-0194-100 Nylon Lever Set**

Part No.	Description	Weight	Measures [mm]
KL-0194-10	Nylon Mount Wedge	100	200 x 26 x 26
KL-0194-11	Nylon Mount Lever	15	Length: 201
KL-0194-12	Nylon Mount Lever	25	Length: 202



Removal Tool Set for Door and Side Panel Trims

KL-0190-100

The correct removal of interior trim elements in vehicles is an important issue as in contrast to work inside the engine compartment, under the car or on the brakes, the car's owner will not overlook marks or damage inside the car caused by repair works.

Damaged screw heads, scratched paint or marks caused by the use of unsuitable tools reflect badly on the quality of the workshop.

The careful use of these tools ensures the vehicle interior remains unmarked during service and repair of the interior components.

Advantage:

- Universal application.
- Professional working.
- No damage to trim elements.

Scope of Delivery:

KL-0190-100 Removal Tool Set for door and side panel trims

Part No.	Description	Qty.
KL-0190-10	Release lever - To remove door panel trims.	1
KL-0190-4	Door trim pliers - Universal: To release most types of clip. Also suitable for trim strips, rubber bumper facings, etc.	1
KL-0190-82	Door spring release tool - To remove and install retaining clips e.g. on door handles, window crank handles, etc. Suitable for almost all vehicles.	1
KL-0194-130 A	Set of plastic wedges (4 pcs.) - The four plastic wedges are particularly suitable to operate on the car body e.g. removing and installing door trims, door clips, trim strips, etc.	1



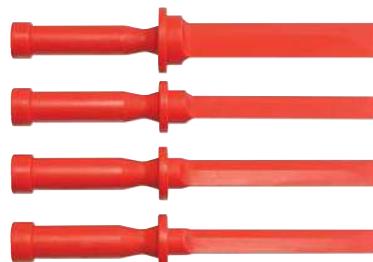
Set of Plastic Chisel

KL-0194-17

Universal application.

This tool is used for the quick and easy removal of trim strips, and door linings etc., as well as for the removal of adhesive weights on aluminium rims.

The special design of the chisels and their handles ensure safe working.



Hog Ring Pliers Set

KL-0190-50

For closing Hog Rings to repair passenger car seats (various manufacturers).

Technical Data:

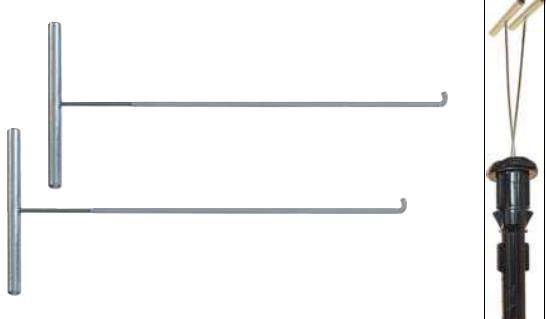
Dimension:	220 x 115 x 33 mm
Weight:	500 g

Scope of Delivery:

KL-0190-50 Hog Ring Pliers Set

Part No.	Description	Qty.
KL-0190-5	Hog Ring Pliers	1
KL-0190-501	Hog Rings (100 Pcs)	1
KL-0190-5090	Plastic Storage Case (empty)	1



**KL-0470-10****Set of Pulling Hooks**

Suitable for Opel/Vauxhall Astra, Corsa, Frontera, Omega, Tigra, Vectra, Zafira.

To allow the removal of the head support columns in the seat-back to be removed without the need to dismantle the upholstery, it is necessary to depress the inner locking tangs using **KL-0470-10** Hook Set.

Technical Data:

Length:	166 mm
Weight:	42 g

KL-0194-41**Windscreen Locking Strip Tool**

Used to insert pipings into the conventional windscreen gaskets. (not intended for use on glued windscreens).

The tool features two eyelets to fit various piping dimensions.

Technical Data:

Weight:	170 g
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KL-0194-27**Cutting Wire Tool Set**

For cutting glued glass panes; consists of 2 self sticking handle grips, 50 m of square cutting wire, 1 needle with eyelet, 1 wooden case (275x145x38mm).

Accessories:**KL-0194-273 Cutting Wire 50 m****Technical Data:**

Weight:	800 g
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KL-0194-30**Set of Bodywork Protective Elements****Universally applicable on vehicles with glued windscreens.**

The use of these bodywork protective elements ensures that the interior trim, the vehicle roof lining and the dashboard do not get dirty or damaged when cutting out glued vehicle panes such as the windscreen for example.

Advantages:

- Neat and professional working.
- Universal application.
- Prevention of expensive damage.
- Large time and cost savings.

Technical Data:

Weight	600g
Width (small protective element):	270 mm
Width (large protective element):	450 mm

KL-0192-24**Snipe Nose Pliers (long design)**

With extra long grip, straight tips for mounting position that are hard to access.

Technical Data:

Length	280 mm
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KL-0192-25**Snipe Nose Pliers (long design) 45°**

With extra long grip, tips angled 45°, for mounting position that are hard to access.

Technical Data:

Length	280 mm
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Gasket Scraper

KL-0191-2

For cleaning of sealing faces on engine, gearbox etc. Long design. Quenched and tempered blade.

Technical Data:

Length:	245 mm
Blade width:	24 mm



Gasket Scraper - Extra Large

KL-0191-3

For the cleaning of sealing faces. Short, large design. This tool is also applicable for the removal of underbody sealant.

Technical Data:

Length:	180 mm
Blade width:	32 mm



Sticker Scraper

KL-0191-61

For removing stickers from windscreens, bumpers etc.

Technical Data:

Length:	165 mm
Blade width:	40 mm
Weight:	200 g



Gasket Scraper Set

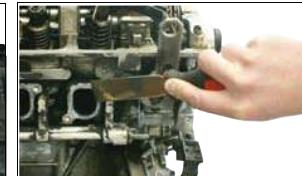
KL-0191-30

Suitable for cleaning sealing faces etc.; can also be used to remove underbody sealants during repairs.

The tool set consists of four scrapers; one short, narrow scraper with a flexible blade and one short, narrow scraper with an extra sturdy blade, as well as two long and wide scrapers, one with a flexible blade and one with an extra sturdy blade.

Technical Data:

Length:	230 mm
Blade width:	31.5 mm
Blade strength:	1.2 mm
Weight:	109 g
Length:	230 mm
Blade width:	31.5 mm
Blade strength:	2.5 mm
Weight:	145 g
Length:	180 mm
Blade width:	20 mm
Blade strength:	1.2 mm
Weight:	90 g
Length:	180 mm
Blade width:	20 mm
Blade strength:	2.5 mm
Weight:	107 g



Screwdriver Set for Battery Screw Plugs

KL-0196-30

Universal application. Also suitable for the ventilating-/locking screw on the radiator; for example on BMW vehicles.

This tool is designed for loosening and tightening the cross-recessed plastic screw plug on the starter battery or plastic radiators without the risk of damage.

Technical Data:

Length of screwdriver:	90 mm
Length of T-handle:	80 mm
Shaft-Ø:	12 mm
Width cross-recess (KL-0196-301):	1.3 mm
Width cross-recess (KL-0196-302):	1.8 mm
Weight:	180 g



Scope of Delivery:

KL-0196-30 Screwdriver Set for Battery Screw Plugs

Part No.	Description	Qty.
KL-0196-301	Screwdriver for battery screw plug 1.3 mm	1
KL-0196-302	Screwdriver for battery screw plug 1.8 mm	1

**KL-0157-2****Twin-Arm Battery-terminal puller**

The perfect tool for removing small parts such as battery terminals, pulleys, wheels, ball bearings, etc. The hook tips grip automatically.

Technical Data:

Max. pulling width:	60 mm
Max. pulling height:	40 mm
Max. load capacity:	0.5 t
Weight:	0.3 kg

KL-0153-1**Steering Wheel Puller Opel/Vauxhall****Suitable for Opel/Vauxhall, Ford etc.**

Steering wheels which are stuck on the steering column can be pulled off professionally, quickly and without damage to the steering column and steering wheel with the puller **KL-0153-1**.

The different length of the puller arms and the longitudinal groove in the yoke allows an almost universal application of this puller tool.

Advantages:

- Universal application.
- No damage to the steering wheel during pulling action.

Technical Data:

Adjusting Range:	max. 90 mm
Height:	135 mm

KL-0153-2**Steering Wheel Puller MB Lorry****Suitable for Mercedes transporters and lorries.**

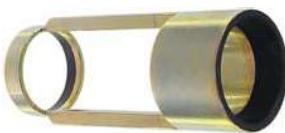
The puller **KL-0153-2** allows quick and easy removal of stubborn steering wheels without risk of damage neither to the steering column splines nor the steering wheel.

Advantages:

- Due to the longitudinal grooves in the puller plate, this puller can be universally used as a two arm puller as well as a three arm puller.
- Flanged nut of the spindle prevents a slip off of the operating tool.
- No damage to the steering wheel during extraction.

Technical Data:

Adjusting Range:	40 - 88 mm
Screws:	M10 x 60

KL-0372-4**Mounting Sleeve for Ignition Switch Retaining Ring****Mercedes W202, W210****Suitable for Mercedes W202 and W210 up to '97.**

The mounting sleeve **KL-0372-4** is a special tool designed for removing and refitting the ignition switch.

The tool consists of tubular-type outer casing with a vulcanized rubber insert.

KL-0372-6**Mounting Sleeve for Ignition Switch****Suitable for Mercedes vehicles with FBS 2 and FBS 3 Ignition Switch on W129, W140, W203, W208, W209, W210, W211, W220, W230 and W906 (Sprinter) as well as VW Crafter.**

Designed to loosen the ignition switch retaining ring.

Needle Set for Ignition Switch Removal

KL-0372-1

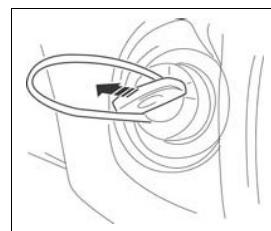
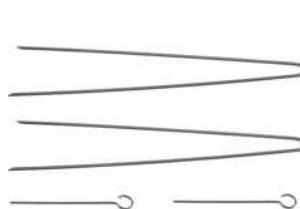
Suitable for Mercedes W116, W123 W124, W126 and W201.

For removal of ignition switch.

The needle set **KL-0372-1** contains needles of size 1 and size 2 with a diameter of 1.25 and 2.0 mm.

They are applicable for the removal of the ignition switch on following types:

- Needle 1 on **Mercedes W116, W123 and W126**
- Needle 2 on **Mercedes W124 and W201**



Advantages:

Problem-free and quick removal of the ignition switch on the vehicle types mentioned above.

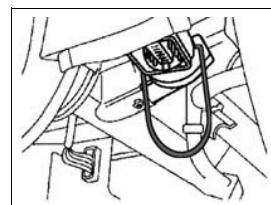
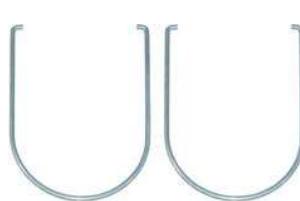
Spring clip for removing protecting sleeve and ignition starter from steering lock (2 units)

KL-0372-70

Suitable for Mercedes W129, W140, W210 and W202 with FBS2 ignition switch system.

The spring clip **KL-0372-70** is required to push in both locking bolts into the steering lock in order to enable the removal of the protecting sleeve with the ignition starter switch from the steering lock.

The set consists of 2 spring clips made of NIROSTA®-Steel

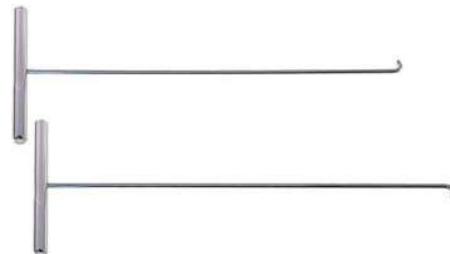


Set of Pulling Hooks (long)

KL-0372-3

Suitable for Mercedes W116, W123, W124, W126, W129, W140, W201, W202, W203, W208, W209, W210, W211, W220, W230 as well as VW Crafter.

For easy removal of the instrument panel.



Special Screwdriver Bit Socket Torx® T30

KL-0191-10

Suitable for removal and installation of airbags on BMW, Mercedes etc.

The screwdriver bit socket **KL-0191-10** is hollow on the inside to retain the special Torx® screws on airbags.

Thanks to the special tool length of 85 mm, the airbag mounting screws can easily be reached.

Technical Data:

Length:	85 mm
Drive:	1/4"
Weight:	22 g

® = reg. trademark of Acument Intellectual Properties, LLC. USA



Special Screwdriver Bit Socket Torx® T30

KL-0191-11

Suitable for removal and installation of airbags on VW, Audi A4 (Bj. '96-'05), Vauxhall/Opel, Renault etc.

The screwdriver bit socket **KL-0191-11** is suitable to retain the conventional Torx® screws on airbags. Socket is not hollow-bored on the inside.

Technical Data:

Length:	85 mm
Drive:	1/4"
Weight:	22 g

® = reg. trademark of Acument Intellectual Properties, LLC. USA



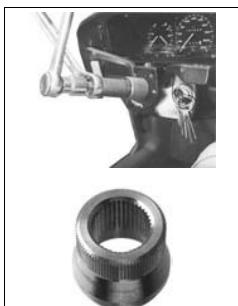
**KL-0242-10****Airbag Removal Tool Set (2 pcs.)**

Suitable for driver-side airbags on VW Golf (IV), Lupo, New Beetle, Passat (B5) '97 onwards, Polo '99 onwards, Sharan 06/00 onwards.

For correct removal of the driver-side airbag it is necessary to release the retaining bracket from its mounting with the appropriate wrench.

Scope of Delivery:**KL-0242-10 Airbag Removal Tool Set (2 pcs.)**

Part No.	Description
KL-0242-101	Airbag Removal Tool Golf IV
KL-0242-102	Airbag Removal Tool Passat B5

KL-0240-1**Puller for Spacer Sleeves VW**

Suitable for vehicle models as from 1988 onwards such as VW Golf (II and III), Jetta, Vento, Polo, Passat, etc.

When replacing steering column switches, it is necessary to firstly remove the steering wheel and then to extract the spacer sleeve from the cone.

The special design of the puller **KL-0240-1** ensures that its collet chuck precisely encompasses the spacer sleeve which enables quick and smooth extraction of the spacer sleeve.

Technical Data:

Clamping range:	27 - 30 mm
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KL-0240-2**Drive-in Mandrel for Spacer Sleeves**

The drive-in mandrel **KL-0240-2** made of brass allows the spacer sleeve to be pushed into the steering column without risk of damage.

KL-4305-6208**Torx®-Screwdriver T8 x 200 mm**

Suitable e.g. for Audi A4 (8E), A6 (4F) steering column cover.

The long and narrow shape of the **KL-4305-6208** Torx®-Screwdriver makes it ideal for removing and installing the steering column cover on Audi A4 and A6 etc.

Technical Data:

Weight	70 g
Size	Torx -T8
Shaft length	200 mm
Overall length	300 mm

® = reg. Trademark of Acument Intellectual Properties, LLC. USA

Pilot Lamp

KL-0190-30

The Test lamp allows checking of connections and cables up to 24 volts DC.
Locates short-circuits and open-circuits.
The probe-tip is protected by a screw-cap.

Technical Data:

Weight:	60 g
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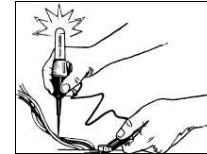
Pilot Lamp

KL-0190-32

Quick check of both AC and DC current up to 28 volts with power on. Helps locate shorts or breaks in wiring. Complete with insulated grounding clip.

Technical Data:

Weight:	85 g
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Terminal Tool Set for push-on contacts

KL-0190-28 K

To release terminals from automotive plugs and connectors.

The handy and ergonomic design of the blue anodized aluminium handles ensures safe working.

Due to their very short shape, these terminal tools enable an easy release of cable plug-and-socket connections, even when they are difficult to access.

During the release procedure the barbed hooks are pushed on the terminal by means of the tool forks, so that the cable with the plug can be extracted.

The terminal tool set **KL-0190-28 K** enables, thanks to its range of different insertion tools, the easy release of terminal contacts in automotive electrical connectors without the risk of damage or injury.

Advantages:

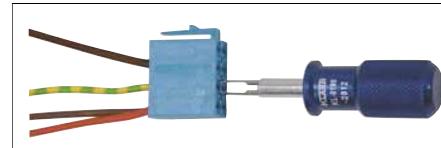
- The tool is easy to operate.
- Substantial time savings.
- Professional and safe working.

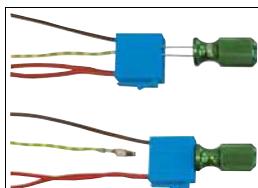


Scope of Delivery:

KL-0190-28 K Terminal Tool Set for push-on contacts

Part No.	Suitable for:
KL-0190-2801	Audi, BMW, Ford, Mercedes, Opel/Vauxhall, Renault, Seat, VW
KL-0190-2802	Audi, BMW, Ford, VW
KL-0190-2803	Audi, BMW, Ford, Mercedes, Opel/Vauxhall, Renault, Seat, VW
KL-0190-2804	BMW, Ford
KL-0190-2805	Audi, BMW, Mercedes, Opel/Vauxhall, Seat, Skoda, VW
KL-0190-2806	Audi, BMW, Mercedes, Opel/Vauxhall, Renault, Seat, Skoda, VW
KL-0190-2807	BMW, Mercedes
KL-0190-2808	Audi, Seat, Skoda, VW
KL-0190-2809	Audi, Opel/Vauxhall, Renault
KL-0190-2810	BMW, Mercedes
KL-0190-2811	BMW, Mercedes
KL-0190-2812	Audi, BMW, Mercedes, Opel/Vauxhall, Seat, VW
KL-0190-2813	BMW, Mercedes, Opel/Vauxhall
KL-0190-2814	BMW, Mercedes
KL-0190-2815	Audi, BMW, Opel/Vauxhall, VW
KL-0190-2816	BMW, Mercedes
KL-0190-2817	Audi, BMW, Mercedes, Skoda, Opel/Vauxhall, Seat, VW
KL-0190-2818	Audi, BMW, Mercedes, Opel/Vauxhall, Seat, Skoda, VW
KL-0190-2819	Audi, BMW, Ford, Mercedes, Opel/Vauxhall, Renault, Seat, VW



**KL-0190-26 K****Terminal Tool Set for Push-On Contacts****Technical Data:**

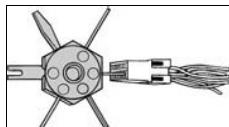
Weight:	300 g
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Designed to release the terminals in plug and socket cable connections.

During the release procedure the tool forks are pushed onto the terminal release mechanism, releasing them from the connector. The terminals can then be extracted from the plug or socket.

Scope of Delivery:**KL-0190-26 K Terminal Tool Set for Push-On Contacts**

Part No.	Description	Measures
KL-0190-2601	Terminal Tool round with Spring "A"	3.3mm x 28mm
KL-0190-2602	Terminal Tool square "B"	1.4mm x 28mm
KL-0190-2603	Terminal Tool slot "C"	1.6mm x 25mm
KL-0190-2604	Terminal Tool slot "D"	2mm x 22,5mm
KL-0190-2605	Terminal Tool split slot "E"	8mm x 24mm
KL-0190-2606	Terminal Tool slot "F"	4.6mm x 25mm
KL-0190-2607	Terminal Tool round "G"	3.3mm x 28mm
KL-0190-2608	Terminal Tool round "H"	4.3mm x 13mm
KL-0190-2609	Terminal Tool round "I"	3.8mm x 12.3mm
KL-0190-2610	Terminal Tool round "J"	3.0mm x 12.5mm
KL-0190-2611	Terminal Tool split slot horizontal "K"	3.2mm x 19.2mm
KL-0190-2612	Terminal Tool split slot horizontal "L"	1.6mm x 16.3mm

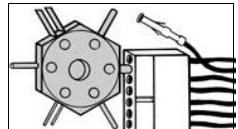
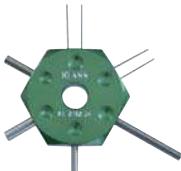
KL-0190-23**Terminal Tool for push-on contacts**

Designed to release the terminals in plug and socket cable connections.

Designed for Pack-Con and Weather-Pack terminals on GM C3 Systems.

Technical Data:

Weight:	60 g
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KL-0190-24**Terminal Tool for Push-on Contacts**

The terminal tool **KL-0190-24** is used to release the terminals in plug and socket cable connections. During the release procedure the tool forks are pushed onto the terminal release mechanism, releasing them from the connector. The terminals can then be extracted from the plug or socket.

Technical Data:

Weight:	60 g
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KL-0190-20**Pliers for Light Bulbs****(Universal)**

Universally suitable for VW-Audi, Opel/Vauxhall, Ford, Mercedes, BMW, etc.

This tool is designed to extract wedge base bulbs, for example, bulbs used for instrument lighting in the dashboard.

The coated tips of the pliers prevent damage to the light bulb.

Technical Data:

Length:	165 mm
Weight:	150 g

KL-0190-21**Pliers for Light Bulbs****(Universal)**

Universally suitable.

This tool is designed to extract very small wedge base bulbs, for example bulbs used for instrument lighting in dashboards, illuminated switches etc.

Technical Data:

Length:	135 mm
Weight:	78 g

KL-0190-27**Pliers for Light Bulbs****(Universal)**

Very light all-plastic pliers suitable to extract small glass-based light bulbs installed in control panels or in luminous switches.

Technical Data:

Length:	156 mm
Weight:	5 g