

 **VITAL** 
SUSPENSIONS *by D.S.R.A.V.*

21 
CATALOGUE EDITION



KIT SPORT  [®]
TUNING SUSPENSIONS

VITAL
SUSPENSIONS *by OSRAV*

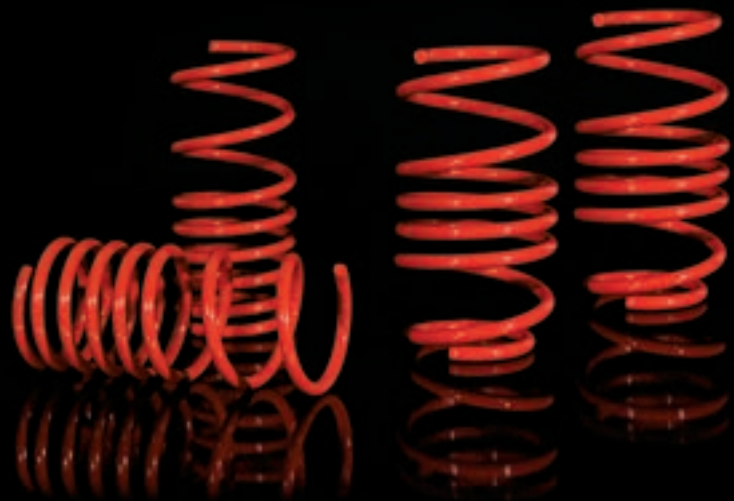
KIT SPORT[®]

TUNING SUSPENSIONS



KSM

*Kit Molle
Sport Springs*





KGA

*Kit ammortizzatori regolabili sul veicolo
Shock Absorber's Kit adjusting on vehicles*

KTA

*Ammortizzatori tarati e accorciati
Calibrated shortened shock absorbers*



THR

*Ammortizzatori filettati
Adjustable threaded shock absorbers*



KIT SPORT[®]

*vincenti e sicuri !
winning solutions !*



Una valida proposta per gli automobilisti più esigenti, all'insegna della sicurezza, della tenuta di strada e delle prestazioni sportive.

*Con le linee **KSM, KTA, KGA** e **THR**, OSRAV fornisce al mercato soluzioni innovative e personalizzate, studiate per l'utilizzo stradale e l'agonismo.*

OSRAV realizza una gamma completa di ammortizzatori, oltre ad assetti sportivi per vetture di serie con molle ribassate.

*A convincing proposal for the most demanding drivers looking for safety, good road-holding and a sporty performance. With the **KSM, KTA, KGA** e **THR**, OSRAV provides the market with innovative, customised solutions designed for ordinary road use and for racing. OSRAV makes a complete range of shock absorbers as well as providing a sporting ride control and set-up for standard vehicles with lowered springs.*



Per il mondo delle elaborazioni sportive consultare il catalogo specifico. See the specific catalogue for the sporty set-ups.



indice / index

ALFA ROMEO	pg 14
AUDI	pg 16
AUTOBIANCHI	pg 18
BMW	pg 19
CITROEN	pg 21
FIAT	pg 23
FORD	pg 26
HONDA	pg 29
HYUNDAI	pg 30
JEEP	pg 31
KIA	pg 31
LANCIA	pg 32
MAZDA	pg 34
MERCEDES	pg 34
MINI	pg 36
NISSAN	pg 37
OPEL	pg 38
PEUGEOT	pg 41
RENAULT	pg 44
ROVER	pg 48
SAAB	pg 48
SEAT	pg 49
SKODA	pg 52
SMART	pg 53
SUZUKI	pg 53
TOYOTA	pg 54
VOLKSWAGEN	pg 55
VOLVO	pg 60
<hr/>	
<hr/>	
<input type="checkbox"/> KIT MODIFICA CAMPANATURA / KIT CAMBER REGULATION	pg 62
<input type="checkbox"/> INFORMAZIONI E DISEGNI TECNICI/	pg 64
<input type="checkbox"/> TECHNICAL INFORMATION AND DRAWINGS	pg 64
<input type="checkbox"/> GARANZIA / WARRANTY	pg 73
<input type="checkbox"/> LEGENDA / LEGEND	pg 74
<input type="checkbox"/> INFO ED AVVERTENZE / INFO & WARNINGS	pg 77



KIT MOLLE SPORT SPRINGS



OSRAV opera nel settore auto da più di vent'anni, ed è particolarmente specializzata nel campo delle sospensioni, nel quale vanta oltre una pluriennale esperienza, acquisita con la continua presenza nel mondo delle corse, che l'ha portata ad arricchire continuamente il suo bagaglio tecnico per poter rispondere alle richieste sempre più qualificate del mercato.

Le esigenze del moderno automobilista, unite alla predisposizione delle vetture di serie ad una linea sportiva, hanno indotto OSRAV a studiare un nuovo tipo di sospensione, tale da soddisfare queste nuove richieste.

E dopo approfondite ricerche e numerosi collaudi, eseguiti anche su vetture da competizione, OSRAV ha messo a punto un nuovo KIT SPORTIVO, composto da una serie di molle elicoidali per sospensione, che permette di ottenere l'abbassamento di assetto dell'auto e dare così al veicolo un look sportivo originale e aggressivo.

I vantaggi del KIT SPORTIVO OSRAV sono messi in evidenza nel diagramma di comportamento delle molle illustrato accanto, nel quale si possono notare le differenti reazioni delle molle sportive (linea continua rossa), messe a confronto con quelle delle molle originarie (linea tratteggiata blu), che indicano l'assetto iniziale del veicolo. Come si può facilmente notare nel diagramma, il vecchio sistema di abbassamento, che prevedeva il taglio delle molle (linea tratteggiata verde), consentiva di ottenere l'abbassamento desiderato (a), ma comprometteva, oltre alla resistenza del materiale, anche la lunghezza della molla (D) e la perdita di carico dinamico (c), in condizioni normali di assetto. Invece il KIT SPORTIVO OSRAV consente di ottenere lo stesso abbassamento (a) senza nessuna perdita di carico (B=B1) e con un'irrelevante accorciamento della molla (F).

OSRAV has been working in the automobile sector for more than twenty years and it has been specialised especially in the field of suspensions, acquiring invaluable experience through its continual presence at races. This has enabled the company to enrich continuously its know-how in order to satisfy the increasingly demanding market. The requirements of a modern driver plus the tendency of standard production cars towards a sporty line have induced OSRAV to study a new type of suspension designed to meet these new demands. In-depth research and countless tests, also on racing cars, have resulted in a new SPORTING

KIT, consisting of a set of helical suspension springs, allowing the car suspension level to be lowered and giving the vehicle an original, assertive sporty look.

The advantages of the OSRAV SPORTING KIT are highlighted in the behaviour chart of the springs to the side, showing the different reactions of the sporting springs (curved red line) compared to the original springs (blue dotted line - which also indicates the initial vehicle set-up).

It is easy to see from the chart that the old lowering system, which provided for cutting the springs (green dotted line), lowered the vehicle by the required amount (a) but jeopardised not only the strength of the material but also the length of the spring (D) and the dynamic load loss (c) under normal ground clearance conditions. The OSRAV SPORTING KIT instead permits the same lowering (a) to be obtained without any load loss (B=B1) and with a negligible shortening of the spring (F).

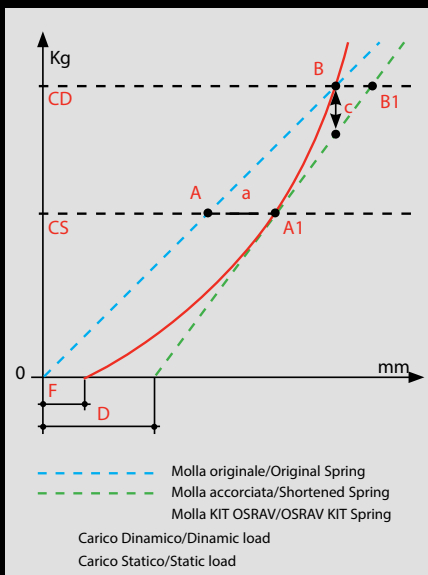


Diagramma Molle Kit Sport / Sport Spring Kit Diagram

KSM

VITAL
SUSPENSIONS *by OSRAV*



Corretto sistema di misurazione dell'assetto, PRIMA e DOPO l'intervento / Correct system of measuring the suspension levelling, BEFORE and AFTER



Test di carico / Charge test

Inoltre, mentre la molla originale e la molla accorciata hanno un carico costante, il KIT SPORTIVO OSRAV si comporta invece in maniera progressiva. Tutto ciò è reso possibile dal fatto che il KIT SPORTIVO OSRAV è ottenuto realizzando una opportuna relazione fra le tre variabili che determinano la portata della molla:

il diametro del filo, la lunghezza e il passo fra le spire. Solo però utilizzando degli acciai speciali legati al cromo-silicio, detti ad alta resistenza, avvolti

a freddo ed opportunamente trattati e lavorati, è possibile arrivare a questi risultati.

Il KIT SPORTIVO OSRAV presenta inoltre un altro grosso vantaggio: permette di ottenere l'abbassamento desiderato, senza dover necessariamente sostituire gli ammortizzatori originali, quando sono ancora efficienti e tarati. Il risultato è un abbassamento del baricentro dell'auto, variabile a seconda del modello, da 20 a 40 mm. Questo risultato, oltre a dare all'auto un look più grintoso, assicura, se gli ammortizzatori sono efficienti, una maggiore sicurezza di guida:

la migliorata tenuta di strada e la sensibile riduzione dei movimenti di rollio e beccheggio consentono infatti un più agevole controllo del mezzo.

ATTENZIONE: Una volta ottenuto il nuovo assetto è indispensabile far eseguire una verifica di camber e di convergenza delle ruote. Inoltre, qualora il veicolo sia dotato di regolatore di frenata, bisognerà verificare la corretta frenatura e, se necessario, intervenire con una nuova registrazione.

SIA L'APPLICAZIONE CHE I COLLAUDI E LE VERIFICHE DEVONO ESSERE ESEGUITI DA PERSONALE ADDESTRATO E QUALIFICATO IN QUESTO TIPO DI LAVORO, DATO CHE SI INTERVIENE SUL SISTEMA DI SICUREZZA DEL VEICOLO.

Furthermore, whilst the original and the shortened spring have a constant load, the OSRAV SPORTING KIT acts in a progressive way. This is because in the OSRAV SPORTING KIT the three variables which decide the capacity of the spring, i.e. the wire diameter, the length and the pitch of the turns, are suitably correlated. This result is only possible, however, using suitably treated and machined special cold-wound chrome-silicon alloy steels, called high-tensile steels. The OSRAV SPORTING KIT also offers another great advantage: lowering as required without necessarily having to replace the original shock absorbers, when they are still efficient and calibrated.

The centre of gravity of the vehicle is consequently lowered as much as 20 to 40 cm, depending on the model. This gives the vehicle a more assertive look and, provided the shock absorbers are efficient, guarantees greater driving safety. Better road holding and a considerable decrease in roll and pitching make easier the control of the vehicle.

ATTENTION: Upon completion of the new levelling, it is indispensable to check the camber and toe-in of the wheels. If the vehicle is fitted with a braking-force regulator, it must be checked that the latter is working correctly and if necessary re-adjust. APPLICATION AS WELL AS THE TESTS AND CHECKS MUST BE CARRIED OUT BY PERSONNEL WHO ARE FULLY TRAINED AND QUALIFIED FOR THIS TYPE OF WORK, SINCE IT INVOLVES THE SAFETY SYSTEM OF THE VEHICLE.



AMMORTIZZATORI TARATI E ACCORCIATI

CALIBRATED SHORTENED SHOCK ABSORBERS

Il Kit ammortizzatori O.S.R.A.V. KTA (tarati e accorciati) è la versione base e più richiesta per un assetto sportivo stradale non agonistico.

Infatti, le sue caratteristiche principali nascono da un'esigenza dell'utente che pretende le migliori prestazioni di taratura dei propri ammortizzatori quando utilizza un Kit di molle sportive ribassate.

Essendo in questo caso il baricentro del veicolo ribassato mediamente di tre centimetri rispetto all'assetto originale, anche gli ammortizzatori vanno corretti a questa nuova altezza. Pertanto, sono forniti anch'essi mediamente accorciati in modo da ripristinare le condizioni di lavoro ideali dell'ammortizzatore con il nuovo assetto, evitando quindi strappi e tamponamenti causati dalla differente altezza del veicolo e che è una delle maggiori cause di danneggiamento in questo impiego, oltre allo sfondamento della valvola di fondo, e superiormente lo "scoppio" del paraolio di tenuta.

A tale caratteristica fondamentale, si unisce una maggiore frenatura o taratura (mediamente maggiorata del 50% rispetto all'originale) in rimbalzo dell'ammortizzatore necessaria per smorzare la maggiore rigidità progressiva della molla di assetto soprattutto quando in corsa questa viene maggiormente sollecitata.

Il risultato che ne deriva dall'impiego del KTA OSRAV è una ottimale stabilità del veicolo, una maggiore sicurezza del mezzo, e delle prestazioni tipicamente sportive che si richiedono ad un veicolo per uso stradale. Inoltre la pressurizzazione del gas con cui vengono caricati gli ammortizzatori

ne migliora il confort di guida e soprattutto la durata evitando in tal modo il surriscaldamento dell'olio.

The O.S.R.A.V. KTA shock absorbers kit (calibrated and shortened shock absorbers) is the basic and the most required version to drive a vehicle not in competitive sports.

In fact, its main features born from a customer needs, customer who asks for the best performance in calibration of their shock absorbers when they are using a lowering sport springs

kit. Because in this case the centre of gravity of the vehicle is lowered of about three centimetres compared to the original set up, even the shock absorbers must be corrected to this new height.

Therefore, they are also provided shortened so as to reinstate the ideal working conditions of shock absorbers with the new structure, avoiding in this way crushes and tears caused by the different height of the vehicle, one of the major cause of damage in this duty, and the breaking of the bottom valve, and the "burst" of the oil seal. Joining this important features, the working and the calibration (increased of approximate 50% compared to the original) during the rebound of the shock absorbers is necessary to mitigate the progressive rigidity of the sportive spring especially when is more stressed.

The situation resulting using the KTA OSRAV is an optimum vehicle stability, a greater security, and a typically sportive performance required for a vehicle for road use. In addition, the pressurization of the gas which is charged in the shock absorbers improves the comfort of driving and the duration, avoiding in this way the oil overheating.





AMMORTIZZATORI REGOLABILI ADJUSTABLE SHOCK ABSORBERS



Il Kit di ammortizzatori Osrav KGA - KIT GAR è l'evoluzione più sofisticata della versione KTA. La linea KGA è indirizzata ad un pubblico più esigente, soprattutto nel settore corse, dove i tempi di intervento sul veicolo sono limitati e dove l'esigenza di variare la taratura in rimbalzo - a seconda che

si passi dallo stradale allo sterrato - diventa molto sentita oltre a essere un reale vantaggio nella competizione. Ogni richiesta di assetto personalizzato può trovare risposta nel programma OSRAV KGA conformemente allo stile di guida di ognuno di noi.

Il programma sportivo ammortizzatori KGA si basa principalmente sul sistema di regolazione della trazione dall'esterno **SENZA SMONTARE L'AMMORTIZZATORE DAL VEICOLO**, intervenendo sull'ammortizzatore con una chiave a brugola se la testa dell'albero è a perno oppure con un'apposita chiave se la testa dell'albero è a occhiello.

Il sistema permette inoltre di ottenere tarature molto elevate, fino a tre volte superiori a quelle iniziali, con la possibilità di ripristinare i valori una volta terminata la necessità. Questa versatilità consente al KGA di essere applicato su di una vastissima gamma di modelli, risolvendo situazioni altrimenti impossibili.

Gli ammortizzatori KGA si distinguono anche per un'altra prerogativa fondamentale per il cliente, che è quella di poterli facilmente riparare una volta persa la loro efficienza, essendo prodotti smontabili. Infine la possibilità di regolare anche gli ammortizzatori tubolari, nonostante le ridotte dimensioni degli alberi, ha risolto non pochi problemi ai preparatori più esigenti



The Osrav KGA - KIT GAR kit is the latest development of the KTA version. The KGA line is oriented towards a more demanding consumer, especially in the racing sphere, where times

for working on a vehicle are limited and the need to alter the rebound or bump calibration - depending on whether there is a passage from made to unmade road - becomes essential apart from being a real advantage in the race.

Every request for a personalised set-up and ride control finds an answer in the OSRAV KGA range, designed to satisfy every individual style of driving.

The basic feature of the KGA shock absorber sport range is the system for adjusting the drive externally **WITHOUT HAVING TO REMOVE THE SHOCK ABSORBER FROM THE VEHICLE**. The shock absorber can be adjusted with an Allen wrench on a pin shaft head or with a special wrench on an Elliot type shaft head.

The system also allows up to three times the initial calibration to be achieved, with the possibility of resetting the original values. This versatility means that the KGA can be applied to a vast range of models, resolving otherwise impossible situations.

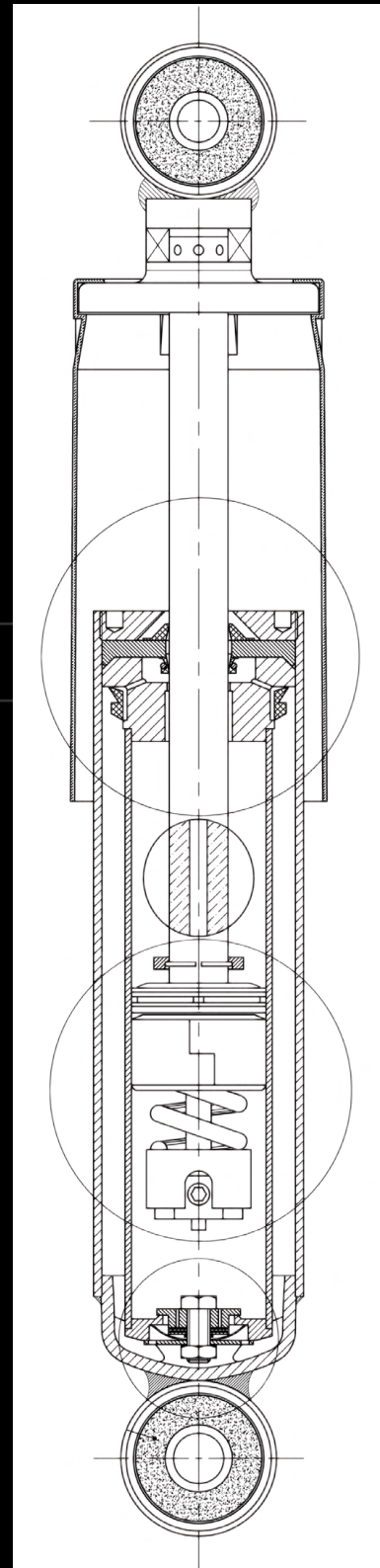
KGA shock absorbers also stand apart for another reason that is essential

for customers: being able to repair them easily once they have lost their efficiency, because they are products that can be removed. Lastly, the fact that also tubular shock absorbers

can be adjusted, despite the reduced dimensions of the shafts, resolves quite a few problems for the most demanding mechanics.

KGA

VITAL
SUSPENSIONS *by OSRAV*





AMMORTIZZATORI FILETTATI THREADED SHOCK ABSORBERS



E' la versione brevettata e più avanzata della tecnologia O.S.R.A.V.

Questi KIT di ammortizzatori OSRAV sono costruiti principalmente per i veicoli da gara, in quanto le loro prestazioni soddisfano i piloti più esigenti.

La robustezza della carcassa, la finitura zincata ad alta resistenza le molle in acciaio pretemperato al cromo silicio, la molla di precarica, la valvola di ricarica del gas, ed il sistema di regolazione

di KGA (cioè attraverso la rotazione manuale dell'asta all'interno dell'asse cromato permette di comprimere a piacimento la molla di taratura) che permette di ottenere quindi una taratura personalizzata al proprio utilizzo ed allo stile di guida, unita all'olio/gas ad alto indice di viscosità per le competizioni.

Inoltre la filettatura della carcassa permette la corretta regolazione dell'altezza del veicolo.

Sono queste le maggiori caratteristiche della linea di ammortizzatori sportivi THR. Dato il loro impiego tipicamente agonistico, abbiamo studiato la possibilità di poter ricondizionare

gli ammortizzatori dopo la gara o quando è ritenuto necessario, potendo ispezionare rapidamente l'interno dell'ammortizzatore grazie ad un tappo di chiusura filettato, che permette l'apertura dell'ammortizzatore ogni qual volta sarà necessario. Questo fa

si che il THR OSRAV se non ha subito incidenti possa essere rimesso a nuovo fino alla durata del veicolo, senza dover di nuovo riacquistare un kit completo ogni qual volta si esauriscono le prestazioni, ma solo riparandolo. Queste caratteristiche fanno del THR OSRAV il punto di riferimento per ogni pilota esigente che pretende per il suo veicolo il meglio delle prestazioni, della qualità e della sicurezza.

The THR is a patented kit sport version and the most advanced OSRAV technology.

These KIT of OSRAV shock absorbers are primarily built for vehicles for race, as their performance meet pilots requirements.

The strength of the casing, the galvanized finishing at high resistance, the pre-temperate chrome silicon steel springs, the preloaded spring, the valve for charging the gas and the adjustment system of KGA (through the manual rotation of the rod inside the chromed axis that can compress the spring as per customer needs) permit to obtain a personalized calibration for customer utilization

and driving style, joined with oil/gas at high viscosity index for competition.

In addition, the thread of the casing permit the correct regulation to adjust the height of the vehicle.

These are the major characteristics of this line of THR sportive shock absorbers.

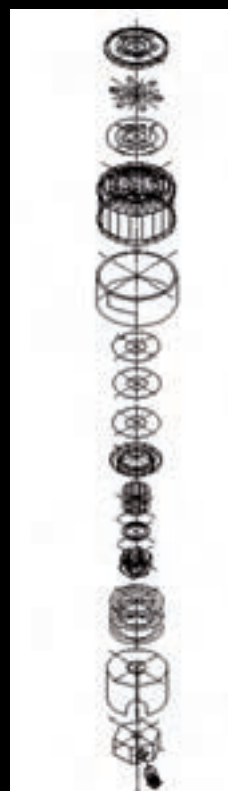
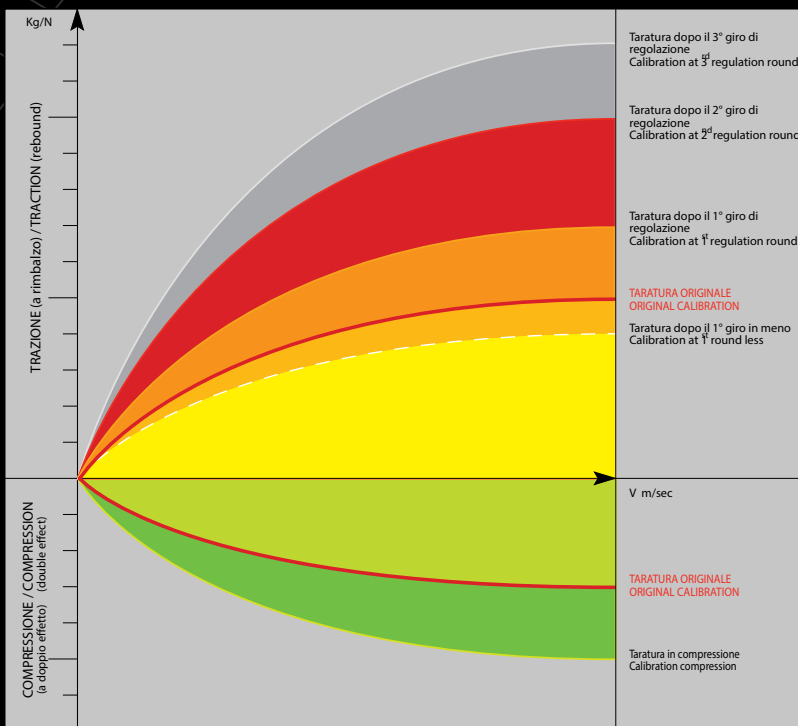
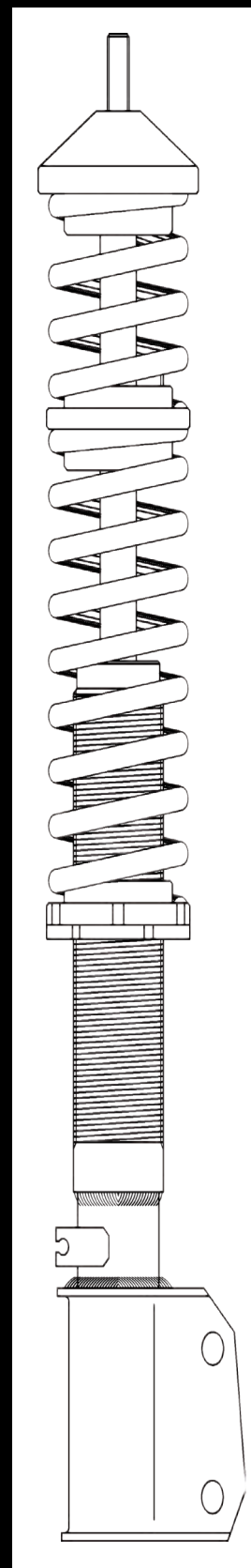
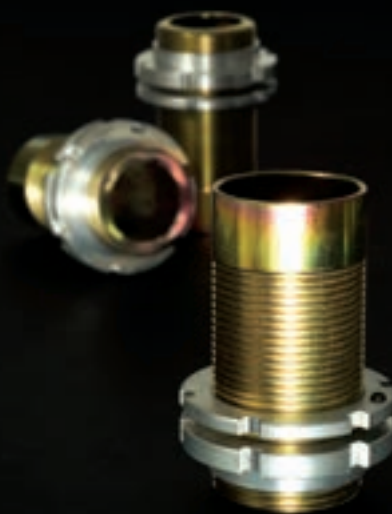
Because their use typically competitive, we studied the possibility of reconditioning the shock absorbers after the race or when it is considerate necessary buy the customer, he can

be quickly inspect the inside of the shock absorbers thanks to a screw thread cap closure, which permit the shock absorbers opening whenever is necessary. This makes OSRAV THR Kit, unless it has suffered accidents, to be adjusted until the duration of the vehicle without having to buy a new full kit at any time performances are down.

These characteristics do OSRAV THR Kit the point of reference for each pilot who needs for his vehicle the best performance, quality and safety.

THR

VITAL
SUSPENSIONS *by OS2AV*





















BREVETTO / PATENT

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	---	---	---	---

ALFA ROMEO

ALFA 33

  1.2, 1.3, 1.3 S, 1.5, 1.7 excl. 4X4   1.8 TD excl. 4X4	(905, 905A)	06.83 - 02.87	1A, 2		KGA 20	KTA 20	
  1.5 4X4	(905, 905A)	06.83 - 02.87					
  1.2, 1.3, 1.5, 1.7, 1.8 TD	(905, 905A)	03.87 - 01.90	1A	KSM 20	KGA 20	KTA 20	
  1.3, 1.3 S, 1.4, 1.5, 1.7 excl. 1.7ie 16V, 4X4	(907A, 907B)	01.90 - 01.93	1B	KSM125	KGA 98	KTA 98	
 1.7ie 16V 4X2  1.7ie 16V SW 4X2	(907A) (907B)	04.90 - 01.93					
 1.7ie 16V 4X4  1.7ie 16V SW 4X4	(907A) (907B)	04.90 - 01.93					
  1.8 TD	(907A, 907B)	04.90 - 01.93					
  1.3, 1.4, 1.5, 1.7, 1.7ie 16V	(907A, 907B)	02.93 - 09.94					
IMOLA	(907A, 907B)	02.93 - 09.94					

ALFA 75

	(162B)	06.85 - 02.92		KSM 10	KGA 10	KTA 10	
--	--------	---------------	--	--------	--------	--------	--

ALFA 90

	(162)	09.84 - 07.87		KSM 10	KGA 10	KTA 10	
--	-------	---------------	--	--------	--------	--------	--

ALFA 145

 1.3, 1.6, 1.7 16V Boxer, Boxer	(930)	03.95 - 12.96					
 1.4 16V T.S., 1.6 16V T.S.  1.8 16V T.S., 2.0 16V T.S.		12.96 - 01.01		KSM281	KGA127	KTA127	
 1.9 TDS, JTD		07.94 - 01.01		KSM275	KGA127	KTA127	







ALFA 146

 1.3, 1.6, 1.7 16V Boxer, Boxer	(930)	03.95 - 12.96					
 1.4 16V T.S., 1.6 16V T.S.  1.8 16V T.S., 2.0 16V T.S.		12.96 - 01.01		KSM281	KGA127	KTA127	
 1.9 TDS, JTD		07.94 - 01.01		KSM275			





ALFA 147


 excl. 3.2 GTA	(937)	01.01 - 03.10		KSM455	KGA455	KTA455	THR455
--	-------	---------------	--	--------	--------	--------	--------

ALFA 155

 1.6, 1.7, 1.8 TS, 1.9 TD, 2.0 TD, 2.0 TS excl. 	(167)	01.92 - 12.97			KGA127	KTA127	
 2.5 V6, 2. Turbo 4x4 excl. 					KGA215	KTA215	
 2.5 TD excl. 			04.93 - 12.97			KGA215	KTA215

ALFA 156

 excl.  , 2.4 JTD, 2.5 V6	(932)	09.97 - 09.05		KSM350	KGA392	KTA392	THR455
 2.4 JTD, 2.5 V6, excl. 				KSM357			

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
ALFA 156 SPORTWAGON							
 excl.  , 2.4 JTD, 2.5 V6, Crosswagon Q4	(932)	05.00 - 05.06			KGA438	KTA438	THR455
 2.4 JTD, 2.5 V6, excl.  , Crosswagon Q4							
ALFA 159							
 excl. 2.4 JTDM,  , Q4	(140)	09.05 - 11.11		KSM573	KGA560	KTA560	THR560
 2.4 JTDM excl.  , Q4				KSM574			
 excl. 2.4 JTDM,  , Q4		03.06 - 11.11		KSM576	KGA561	KTA561	
 2.4 JTDM excl.  , Q4				KSM577			
ALFA 164							
 2.0 TS, 2.0 Turbo, excl.  , 3.0 V6, 2.5 TD > Ch. 6183988	(164)	01.87 - 04.90	3A	KSM 48	KGA 48	KTA 48	
 3.0 V6, 2.5 TD, excl.  > Ch. 6183988				KSM126			
 2.0 TS, 2.0 Turbo, excl.  , 3.0 V6, 2.5 TD Ch. 6183988 >	(164)	05.90 - 09.98	3B	KSM 48	KGA119	KTA119	
 3.0 V6, 2.5 TD, excl.  Ch. 6183988 >				KSM126			
ALFA 166							
 excl. 2.5 V6, 3.0 V6	(936)	09.98 - 06.07		KSM374	KGA393	KTA393	
 2.5 V6, 3.0 V6				KSM375			
ALFETTA							
 1.6, 1.8, 2.0, 2.0 TD	(116)	07.74 - 12.84		KSM 10	KGA 60	KTA 60	
 GTV 1.6, 1.8, 2.0, 2.0 Turbo, 2.5	(116)						
BRERA							
 excl.  , Q4	(177)	01.06 - 05.11		KSM590	KGA562	KTA562	
GIULIA							
	(105, 115)	06.64 - 12.78			KGA602	KTA602	
 RWD, cambio manuale excl.  ,  , 4WD	(952)	10.15 -		KSM717	KGA686	KTA686	
 RWD, cambio automatico excl.  ,  , 4WD		10.15 -		KSM718	KGA686	KTA686	
 4WD excl.  , 		08.16 -			KGA687	KTA687	
GIULIETTA							
 1.3, 1.6, 1.8, 2.0	(116)	10.77 - 12.85		KSM 10	KGA 60	KTA 60	
 2.0 TD							
 excl. 	(940)	04.10 -		KSM682	KGA658	KTA658	
GT							
 excl. 3.2 GTA	(937)	11.03 - 09.10		KSM568	KGA455	KTA455	
 3.2 GTA				KSM569			

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	--	--	--	--

GTV

1.8 TS, 2.0 TS	(916C)	03.95 - 10.05	13A	KSM299	KGA299	KTA299	
2.0 V6 Turbo			13A	KSM363			
3.0 V6, 3.2 V6			13B	KSM363	KGA300	KTA300	

MITO

excl. 1.4 Bifuel, Quadrifoglio	(955)	08.08 -		KSM666	KGA606	KTA606	
--------------------------------	-------	---------	--	--------	--------	--------	--

SPIDER

1.8 TS, 2.0 TS	(916S)	09.94 - 04.05	13A	KSM299	KGA299	KTA299	
2.0 Turbo V6			13A	KSM363			
2.0 Turbo V6, 3.0 V6			13B	KSM363	KGA300	KTA300	
	(939)	06.06 - 03.11					

STELVIO

RWD excl. 4WD	(949)	12.16 -			KGA688	KTA688	
4WD excl.	(949)	12.16 -		KSM715	KGA689	KTA689	

AUDI (D)

80

excl. Quattro	(89, 89Q, 8A, B3)	06.86 - 07.91		KSM 12	KGA 12	KTA 12	
excl. Quattro, excl. 2.6 V6, 2.8 V6, S2,	(8C, B4)	08.91 - 09.94		KSM129	KGA129	KTA129	
2.6 V6, 2.8 V6 excl.				KSM227			
Avant excl. 2.6 V6, 2.8 V6 excl. Quattro,	(8C, B4)	08.91 - 09.95		KSM129			
Avant 2.6 V6, 2.8 V6 excl. RS2,				KSM228			

100

excl. Quattro, S4 V8 Avant excl. Quattro, S4 V8	(4A, C4)	11.90 - 10.94	excl.	KSM229	KGA178	KTA178	
				KSM304			
Quattro 4X4 excl. S4 V8 Avant Quattro 4X4 excl. S4 V8			excl.	KSM224			

A1

excl. S line	(8X1, 8XK)	05.10 - 10.18		KSM648	KGA640	KTA640	
Sportback	(8XA, 8XF)	09.11 - 10.18		KSM469			

A2 (8Z0)

1.4 16V, 1.6 16V, 1.4 Tdi excl. 1.2 Tdi	(8Z0)	02.00 - 08.05	4A	KSM456	KGA461	KTA461	
1.4 16V, 1.6 16V, 1.2 Tdi, 1.4 Tdi			4B	KSM495	KGA417	KTA417	

A3 (8L1)

excl. Quattro	(8L1)	09.96 - 05.03		KSM325	KGA325	KTA325	THR325
Quattro 4X4 excl. S3		12.96 - 06.99			KGA462	KTA462	
Quattro 4X4, excl. S3		07.99 - 05.03			KGA463	KTA463	

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	---	---	---	---




A3 II (8P1, 8PA)

 incl. Sportback 4X2 excl.  ,  , Quattro, RS3	(8P1, 8PA)	05.03 - 08.12	5A	KSM563	KGA552	KTA552	
			5B		KGA551	KGA551	

A3 III (8V1, 8VK, 8VA, 8VF, 8VS, 8VM)

 CON BARRA DI TORNISIONE excl. 4X4, S3,  , RS3			5A	KSM723	KGA690	KTA690	
			5B		KGA691	KTA691	
 MULTILINK excl. 4X4, S3,  , RS3	(8V_)	04.12 -	5A	KSM719	KGA690	KTA690	
			5B		KGA691	KTA691	
 incl. 4X4 excl. S3,  , RS3			5A		KGA690	KTA690	
			5B		KGA691	KTA691	

A4 (8D2, 8D5, B5)

 1.6, 1.8, 1.8T, 1.9Di, 1.9TDi excl. Quattro		10.94 - 01.99		KSM323	KGA225	KTA225	
				KSM324			
 2.4, 2.5 Tdi, 2.8, V6 excl. Quattro	(8D2, 8D5, B5)	02.99 - 10.00		KSM323	KGA226	KTA226	
				KSM324			
 Quattro 4X4		10.94 - 10.00		KSM536	KGA646	KTA646	





A4 II (8E2, 8E5, B6)

 1.6, 2.0, 1.8T, 1.9TDi excl. 	(8E2, 8E5, B6)	11.00 - 12.04		KSM464	KGA467	KTA467	
				KSM498			
				KSM499			
				KSM535			

A4 III (8EC, 8ED, B7)

 1.6, 2.0, 1.8T, 1.9TDi excl. 	(8EC, 8ED, B7)	11.04 - 06.08		KSM464	KGA467	KTA467	
				KSM498			
				KSM499			
				KSM535			



A4 IV (8K2, 8K5, B8) EXCL. ALLROAD

 1.8TFSi, 2.0TFSi, 2.0TDi excl.  , QUATTRO	(8K2, 8K5, B8)	11.07 - 12.15		KSM724	KGA615	KTA615	
				KSM725			
 3.2Fsi, 2.7TDi, 3.0TDi excl.  , QUATTRO					KGA616	KTA616	

A4 V (8W2, 8W5, 8WC, 8WD, B9) EXCL. ALLROAD

 ø53 excl.  , RS	(8W2, 8W5, 8WC, 8WD, B9)	05.15 -					
 ø49 excl.  , RS							

A5 (8T3, 8TA, 8F7)

 1.8TFSi, 2.0TFSi, 2.0TDi excl.  , QUATTRO, Sportback	(8K2, 8K5, B8)	11.07 - 12.15		KSM619	KGA615	KTA615	
				KSM620			
				KSM621			
							KGA616

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	--	--	--	--

A6 II (4B2, 4B5, C5)

1.8, 1.8T, 2.0, 1.9TDi 4CYL. excl. Quattro	(4B2, C5)	01.97 - 04.00		KSM371	KGA420	KTA420	
2.4, 2.7, 2.8, 3.0, 2.5TDi 6CYL. excl. Quattro			KSM372				
3.7/4.2 V8/S6 excl. Quattro							
1.8, 1.8T, 2.0, 1.9TDi 4CYL.							
2.4, 2.7, 2.8, 3.0, 2.5TDi 6CYL.			KSM520				
3.7/4.2 V8/S6							
1.8, 1.8T, 2.0, 1.9TDi 4CYL. excl. Quattro			KSM371	KGA395	KTA395		
2.4, 2.7, 2.8, 3.0, 2.5TDi 6CYL. excl. Quattro			KSM372				
3.7/4.2 V8/S6 excl. Quattro							
1.8, 1.8T, 2.0, 1.9TDi 4CYL.			(4B2, C5)	05.00 - 04.04		KSM520	
2.4, 2.7, 2.8, 3.0, 2.5TDi 6CYL.							
3.7/4.2 V8/S6							

A6 III (4F2, 4F5, C6) EXCL. ALLROAD

excl. Quattro,	(4F2, C6)	05.04 - 03.11					
2.0TFSi, 2.4, 2.8FSi, 3.0, 3.2FSi, 2.0TDi excl. Quattro,		03.05 - 08.11	KSM688				
Quattro excl.		05.04 - 03.11					
Quattro 2.4, 2.8FSi, 3.2FSi excl.		03.05 - 08.11	KSM582				
Quattro 4.2, 2.7TDi, 3.0TDi excl.		03.05 - 08.11	KSM581				
excl. Quattro		05.04 - 03.11					
excl. Quattro	03.05 - 08.11						

A6 IV (4G2, 4G5, 4GC, 4GD, C7) EXCL. ALLROAD

excl.	(4G2, C7, 4GC)	11.10 - 09.18					
excl. Quattro, 3.0TDi,	(4G5, C7, 4GD)	05.11 - 09.18		KSM699			
incl. Quattro, 3.0TDi, excl.							

TT

, excl. Quattro, , 3.2 V6	(8N3, 8N9)	10.98 - 10.06		KSM388	KGA429	KTA429	
, Quattro excl. , 3.2 V6	(8N3, 8N9)	10.98 - 10.06		KSM496	KGA468	KTA468	
excl. Quattro, S line	(8J3)	10.06 - 06.14		KSM634	KGA628	KTA628	
excl. 3.V6, S line	(8J9)	02.07 - 06.14		KSM635			
excl.	(FV_, FV_)	07.14 -					

AUTOBIANCHI

A 112

ch. 47201> *: solo molle anteriori e kit colonnine posteriori		10.69 - 12.85		KSM 25*	KGA 25	KTA 25	THR 25
--	--	---------------	--	---------	--------	--------	--------


Y 10

4X2	(156)	03.85 - 10.95		KSM 30	KGA 30	KTA 30	
4X4	(156)	12.86 - 10.95		KSM131	KGA132	KTA132	

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	---	---	---	---

BMW (D)


1 SERIES (E81, E82, E87, E88)

 116i, 118i, 120i, 130i excl. 	(E81, E87)	09.04 - 09.12		KSM593	KGA563	KTA563	
 116d, 118d, 120d, 123d excl. 							
 120i, 125i, 135i, 118d, 120d, 123d excl. 3.0 M, 	(E82)	10.07 - 10.13					
 118i, 120i, 125i, 135i, 118d, 120d, 123d excl. 	(E88)	03.08 - 12.13					













1 SERIES (F20, F21) EXCL. M-TECHNIK

 excl.  , xDrive	(F20)	07.11 - 06.19		KSM726	KGA692	KTA692	
 excl.  , xDrive	(F21)	12.11 -					

























2 SERIES (F22, F87, F23) EXCL. M-TECHNIK

 excl. 	(F22, F87)	10.12 -		KSM726	KGA692	KTA692	
 excl. 	(F23)	03.14 -					



3 SERIES (E36) EXCL. M-TECHNIK

 316i, 318i,  318is	(E36)	11.90 - 05.92	8A	KSM133	KGA333	KTA333		
 320i, 325i, 325 TD,  320i, 325i			8B	KSM134	KGA334	KTA334		
 316i, 318i, 318is, 318 TDS			8C	KSM133	KGA337	KTA337		
 320i, 323i, 325i, 328i, 325 TD, 325 TDS		8D	KSM134	KGA340	KTA340			
 316i, 318is		8C	KSM216	KGA337	KTA337			
 320i, 323i, 325i, 328i		8D		KGA340	KTA340			
 Compact 316i, 318Ti, 318 TDS			03.94 - 08.00	8C	KSM233	KGA342	KTA342	
 318i, 320i, 323i, 325i, 328i			03.93 - 04.99	8D		KGA340	KTA340	
 Touring 316i, 318i			01.95 - 10.99	8C	KSM135	KGA337	KTA337	
 Touring 320i, 325i, 328i, 325 TD, 325 TDS								

3 SERIES (E46) 4X2

 4 Cilindri excl.  , M-Sport Pack II	(E46)	02.98 - 04.05		KSM382	KGA471	KTA471	
 320d, 6 Cilindri excl.  , M-Sport Pack II			KSM383				
 330d excl.  , M-Sport Pack II			KSM488				
 4 Cilindri excl.  , M-Sport Pack II			KSM382				
 320 d, 6 Cilindri excl.  , M-Sport Pack II			KSM383				
 330 d excl.  , M-Sport Pack II			KSM488				
 Touring 4 Cilindri excl.  , M-Sport Pack II			KSM489				
 Touring 320d, 6 Cilindri excl.  , M-Sport Pack II			KSM490				
 Touring 330d excl.  , M-Sport Pack II			KSM491				
 4 Cilindri excl.  , M-Sport Pack II			KSM489				
 320d, 6 Cilindri excl.  , M-Sport Pack II			KSM490				
 330d excl.  , M-Sport Pack II			KSM491				

3 SERIES COMPACT (E46)



 4 Cilindri excl. 	(E46)	06.01 - 02.05			KGA471	KTA471	
 320, 6 Cilindri excl. 							

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	---	---	---	---

3 SERIES (E90) EXCL. M-TECHNIK

 excl. xi, xd, xDrive, 	(E90)	01.05 - 12.11		KSM594	KGA564	KTA564	
--	-------	---------------	--	--------	--------	--------	--

3 SERIES TOURING (E91) EXCL. M-TECHNIK

 excl. xi, xd, xDrive, 	(E91)	01.05 - 06.12		KSM595	KGA565	KTA565	
--	-------	---------------	--	--------	--------	--------	--

3 SERIES COUPE' (E92) EXCL. M-TECHNIK

 excl. xi, xd, xDrive, 	(E92)	06.06 - 12.13			KGA565	KTA565	
--	-------	---------------	--	--	--------	--------	--



3 SERIES CABRIOLET (E93) EXCL. M-TECHNIK

 excl. xi, xd, xDrive, 	(E93)	08.06 - 12.13			KGA565	KTA565	
--	-------	---------------	--	--	--------	--------	--



3 SERIES (F30, F80)

 316i, 318i, 320i, 328i, 316D excl. xDrive, Active Hybrid	(F30, F80)	11.11 - 10.18			KGA693	KTA693	
 330i, 335i, 340i, 325D, 330D excl. xDrive, Active Hybrid							













3 SERIES TOURING (F31)

 316i, 318i, 320i, 328i, 316D excl. xDrive, Active Hybrid	(F31)	07.12 - 06.19			KGA693	KTA693	
 330i, 335i, 340i, 325D, 330D excl. xDrive, Active Hybrid							

3 SERIES GRAN TURISMO (F34)











 316i, 318i, 320i, 328i, 316D excl. xDrive, Active Hybrid	(F34)	11.12 -			KGA693	KTA693	
 330i, 335i, 340i, 325D, 330D excl. xDrive, Active Hybrid							

4 SERIES (F32, F33, F36, F82, F83)








 418i excl. xDrive, 	(F32, F82)	07.13 -			KGA693	KTA693	
 420i, 428i, 430i, 418D, 420D, 430d, 435d, 435i, 440i excl. xDrive, 							
 418i excl. xDrive, 	(F33, F83)	10.13 -			KGA693	KTA693	
 420i, 428i, 430i, 418D, 420D, 430d, 435d, 435i, 440i excl. xDrive, 							
 Gran coupè 418i excl. xDrive, 	(F36)	03.14 -			KGA693	KTA693	
 Gran coupè 420i, 428i, 430i, 418D, 420D, 430d, 435d, 435i, 440i - excl. xDrive, 							

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	---	---	---	---

5 SERIES (E39) EXCL. M-TECHNIK

 520i, 523i, 525i, 528i, 520D excl. 525d, 530d, 535i, 540i, 	(E39)	11.95 - 06.03		KSM234	KGA351	KTA351	
 525d, 530d excl. 535i, 540i excl. 				KSM411	KGA474	KTA474	
 520i, 523i, 525i, 528i, 520D excl. 525d, 530d, 535i, 540i,  . 		01.97 - 05.04		KSM360	KGA475	KTA475	
 525d, 530d excl. 535i, 540i excl.  , 				KSM412	KGA476	KTA476	

5 SERIES (E60) EXCL. M-TECHNIK

 520i, 523i, 525i, 528i, 530i, 520d excl.  ,  , 	(E60)	07.03 - 03.10		KSM596	KGA566	KTA566	
		09.03 - 03.10					
 525d, 530d, 535d, 540i, 545i, 550i excl.  ,  , 		09.04 - 03.10		KSM597	KGA567	KTA567	
		07.05 - 03.10					

5 SERIES TOURING (E61) EXCL. M-TECHNIK

 520i, 523i, 525i, 528i, 530i, 520d excl.  ,  , 	(E61)	06.04 - 12.10			KGA631	KTA631	
		09.04 - 12.10					
 525d, 530d, 535d, 545i, 550i excl.  ,  , 		07.05 - 12.10					







5 SERIES (F10, F18) EXCL. M-TECHNIK

 excl.  , xDrive, 	(F10, F18)	01.09 - 10.16					
---	------------	---------------	--	--	--	--	--







5 SERIES TOURING (F11)

 excl. excl. xDrive,  , 	(F11)	11.09 - 02.17					
---	-------	---------------	--	--	--	--	--

6 SERIES (E63, E64) EXCL. M-TECHNIK

 630i, 650i, 645Ci, 635d excl.  , 	(E63, E64)	01.04 - 12.10					
 630i, 650i, 645Ci, 635d excl.  , 		09.04 - 12.10					

Z3 (E36)

 ,  4 Cilindri, excl. 	(E36)	10.95 - 06.03		KSM345	KGA473	KTA473	
 ,  6 Cilindri, excl. 				KSM346			

CITROËN

AX
























	(ZA)	07.86 - 12.98		KSM 63	KGA163	KTA163	
---	------	---------------	--	--------	--------	--------	--































C1






 1.0i, 1,4d	(PM, PN)	07.05 - 09.14		KSM598	KGA590	KTA590	
--	----------	---------------	--	--------	--------	--------	--





























C1 II

 1.0 VTi, 1.2 VTi	(PA, PS)	04.14 -			KGA590	KTA590	
--	----------	---------	--	--	--------	--------	--

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
C2							
 excl. 	(JM)	07.03 - 12.09		KSM565	KGA553	KTA553	THR553
C3							
 excl. 	(FC, FN)	02.02 -		KSM534	KGA477	KTA477	THR553
 Pluriel	(HB)	05.03 -					
C3 II							
	(SC)	11.09 -	11A	KSM690	KGA695	KTA695	
			11B		KGA694	KTA694	
C3 III							
 excl. OE: 9815657980	(SX)	07.16 -	11B			KTA703	
 excl. OE: 9815657880			11A			KTA704	
C3 PICASSO							
	(SH)	02.09 -			KGA591	KTA591	
C4							
 excl. 2.0 HDi (136 HP), 2.0 16V (177 HP)	(LC)	11.04 - 07.11		KSM622	KGA618	KTA618	
 2.0 HDi (136 HP), 2.0 16V (177 HP)				KSM599	KGA505	KTA505	
C4 II							
 excl. 2.0HDi	(B7)	11.09 -					
 2.0HDi							
C4 AIRCROSS							
		04.12 -					
C4 CACTUS							
		09.14 -	11B				
			11A				
DS3							
		11.09 - 07.15	11A	KSM690	KGA695	KTA695	
			11B		KGA694	KTA694	
DS4							
 excl. 2.0HDi		04.11 - 07.15					
 2.0HDi							
SAXO							
	(S0, S1)	05.96 - 04.04		KSM301	KGA163	KTA163	THR163

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
FIAT							
124							
 ,  ,  S, T excl. 	(124)	02.66 - 03.75			KGA124	KTA124	
1800 Rally Abarth		09.72 - 07.75					
124 SPIDER II							
 excl.  , Abarth	(348)	03.16 -					
126							
 excl. 126 Bis * : solo anteriori	(126)	09.72 - 08.87		KSM 33*	KGA601	KTA601	THR601
127							
 - * : solo molle anteriori e kit colonnine posteriori excl. Panorama e Diesel	(127)	06.71 - 12.86 07.78 - 05.83		KSM 25*	KGA681	KTA681	
128							
 incl.  Familiare e coupè 3P	(128)	03.69 - 12.84			KGA604	KTA604	
500							
 0.5, 0.6 * : solo anteriori		01.57 - 01.76		KSM 33*	KGA601	KTA601	THR601
500 II							
 ,  0.9 (60 hp, 65hp), 1.2	(312)	07.07 -		KSM580	KGA608	KTA608	THR608
 ,  0.9 (80 hp, 86 hp, 105 hp), 1.3D, 1.4		KSM579					
 Abarth		08.08 -		KSM650	KGA642	KTA642	THR642
500 L							
 excl. Living 7 posti	(351, 352)	09.12 -			KGA665	KTA683	
500 X							
 excl. 4WD	(334)	09.14 -	13A	KSM693	KGA675	KTA675	
 4WD	(334)	09.14 -	13B		KGA696	KTA696	
600							
 600, 600 D		03.55 - 02.71			KGA697	KTA697	
850							
 850, 850 L, 850 Special		07.64 - 12.72					
BARCHETTA							
	(183)	03.95 - 05.05		KSM284	KGA353	KTA353	
BRAVA/BRAVO							
 1.4, 1.6 (> Ch. 4085697)	(182)	10.95 - 01.96		KSM291	KGA291	KTA291	
 1.2, 1.4, 1.6, 1.9 D  (Ch. 4085697 >)		01.96 - 10.01					
 1.8, 1.9 TD, 1.9 JTD		10.95 - 10.01		KSM282	KGA292	KTA292	
 2.0 20V excl.  Sport Pack						KGA282	KTA282

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
BRAVO II							
 excl 1.9 150CV, 2.0 D Multijet	(198)	11.06 - 12.14	13A	KSM492	KGA619	KTA619	
 1.9 150CV, 2.0 D Multijet		04.07 - 12.14	13B	KSM493	KGA620	KTA620	
CINQUECENTO							
 0.7, 0.8	(170)	07.91 - 01.98		KSM177	KGA289	KTA289	THR289
 1.1 Sporting		10.94 - 01.98		KSM289			
COUPÈ							
 1.8 16V, 2.0 16V, 2.0 20V	(175)	11.93 - 08.00		KSM330	KGA235	KGA235	
 2.0 Turbo 16V, 2.0 Turbo 20V					KGA379	KTA379	
CROMA							
	(154)	12.85 - 09.86		KSM 09	KGA 09	KTA 09	
 , excl. 		10.86 - 12.96		KSM 16	KGA 16	KTA 16	
CROMA II							
 1.8, 2.2, 1.9JTD excl. 	(194)	06.05 -		KSM600	KGA558	KTA558	
 2.4JTD excl. 				KSM670			
IDEA							
	(350)	01.04 -			KGA570	KTA570	
MAREA							
 1.2, 1.4, 1.6, 1.8, 1.9 TD, 1.9 JTD 4 Cilindri	(185)	09.96 - 05.02		KSM321	KGA355	KTA355	
 Weekend 1.2, 1.4, 1.6, 1.8, 1.9 TD, 1.9 JTD 4 Cilindri				KSM334			
 2.0, 2.4 TD, 2.4 JTD 5 Cilindri				KSM322	KGA356	KTA356	
 Weekend 2.0, 2.4 TD, 2.4 JTD 5 Cilindri				KSM335			
PANDA II							
 excl. 4X4, easy power, natural power, van, 100 hp	(169)	09.03 -		KSM566	KGA572	KTA572	
100 hp		10.06 -		KSM703			
 4x4		09.03 -			KGA573	KGA573	
 1.2 Easy power (Gpl)		01.07 -					
 1.4 Easy power (Gpl)		09.10 -					
 1.2 Natural power (Metano)		01.07 - 12.11					
 1.4 Natural power (Metano)		09.10 - 08.13					
PANDA III							
 incl. LPG, excl. 4X4	(312, 319)	02.12 -		KSM733	KGA682	KTA682	
 4X4, Natural power							
PUNTO I							
 1.1, 1.2, 1.6, 1.7 D	(176) (176C)	11.93 - 09.99		KSM368			
 1.2, 1.6		04.94 - 06.00					
 1.2 16V Sporting	(176)	04.97 - 09.99		KSM221	KGA211	KTA211	THR211
 1.4 Turbo GT		01.94 - 09.99		KSM212			
 1.7 TD				KSM211			

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
PUNTO II							
 1.2 8V, 1.2 16V, 1.4	(188)	09.99 - 03.12		KSM409	KGA424	KTA424	THR424
 1.3JTD, 1.8HGT, 1.9D, 1.9JTD				KSM500			
PUNTO III (GRANDE PUNTO)							
 1.2, 1.4, 0.9 TWIN AIR, 1.4 TWIN AIR, incl. Natural power	(199)	06.05 -		KSM570	KGA557	KTA557	
 1.4TJet, 1.3D, 1.6D, 1.9D				KSM571			
PUNTO EVO							
 1.2, 1.4, 0.9 TWIN AIR, 1.4 TWIN AIR, incl. Natural power	(199)	07.08 - 02.12		KSM570	KGA557	KTA557	
 1.4TJet, 1.3D, 1.6D, 1.9D, incl. Abarth				KSM571			
SEICENTO							
 0.7, 0.8	(187)	01.98 - 01.10		KSM177	KGA289	KTA289	THR289
 1.1 Sporting				KSM289			
STILO							
 1.2, 1.6, 1.8	(192)	09.01 - 11.06	19	KSM492	KGA481	KTA481	THR456
 1.9 JTD				KSM493			
 2.4 20V, GT Abarth		01.03 - 08.08		KSM655	KGA555	KTA555	
 Multiwagon 1.6, 1.8				KSM654			
 Multiwagon 1.9 JTD, 2.4 JTD		01.04 - 11.06 09.05 - 11.06		KSM493	KGA482	KTA482	
 1.9 JTD 140CV							
 1.9D Multijet 150CV							
TEMPRA							
 1.4, 1.6	(159)	03.90 - 08.97		KSM 67	KGA 22	KTA 22	
 1.8, 2.0, 1.9 TD				KSM 22			
 SW 1.4, 1.6 excl. 4X4, 				KSM332			
 SW 1.8, 2.0, 1.9 TD excl. 4X4, 				KSM272			
TIPO							
 1.1, 1.4, 1.6	(160)	07.87 - 04.95		KSM 67	KGA 22	KTA 22	
 1.7D, 1.9 D				KSM 22			
 1.8, 1.8 16V, 2.0, 2.0 16V							
 1.9 TD							
TIPO II							
	(356)	03.16 -			KGA673	KTA673	
UNO							
	(146A/E)	01.83 - 12.96		KSM174	KGA 36	KTA 36	THR 36
X 1/9							
1.3	(128AS)	11.72 - 12.79			KGA483	KTA483	
1.5 Europa	(128AS)	11.78 - 12.89			KGA484	KTA484	
1.5 USA	(128AS)				KGA485	KTA485	

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	--	--	--	--

FORD

B-MAX

	(JK)	10.12 -					
--	------	---------	--	--	--	--	--

C-MAX

	(DM2)	02.07 - 09.10			KGA576	KTA576	
	(DXA/CB7, DXA/CEU)	12.10 -			KGA663	KTA663	

ESCORT III/IV (80-90)

	(GAF, AWF, AVF, ABFT)	06.83 - 07.90		KSM 26	KGA542	KTA542	
--	-----------------------	---------------	--	--------	--------	--------	--

ESCORT V/VI (90-95)

Excl. RS 2000, Cosworth, 4WD	(GAL)	08.90 - 01.95	20B	KSM144	KGA143	KTA143	
Excl. , Excl. RS 2000, Cosworth, 4WD	(GAL, AVL)	08.90 - 01.95	20B, 20D	KSM207	KGA207	KTA207	

ESCORT VII (95-00)











































Excl. 1.8D, 1.8TD, 4x4, Cosworth, RS 2000	(GAL, AAL, ABL, AFL)	01.95 - 02.99	20C	KSM288	KGA288	KTA288			
1.8D, 1.8TD Excl. 4x4, Cosworth, RS 2000				KSM286	KGA357	KTA357			
Clipper 1.3i Excl. , 4x4, Cosworth, RS 2000	(GAL, ANL)	08.95 - 02.99	20A, 20E		KGA207	KTA207			
Clipper 1.4i, 1.6i, 1.6i 16V, 1.8i, 1.8i 16V, 1.8D, 1.8 TD Excl. , 4x4, Cosworth, RS 2000					01.95 - 08.95	20C, 20D	KGA287	KTA287	
Clipper 1.4i, 1.6i, 1.6i 16V, 1.8i, 1.8i 16V, 1.8D, 1.8 TD Excl. , 4x4, Cosworth, RS 2000					08.95 - 02.99	20C, 20E	KGA207	KTA207	












































FIESTA III

1.0, 1.1, 1.3, 1.4, 1.6, 1.8 D Excl. 1.6 Turbo		01.89 - 12.93		KSM148	KGA148	KTA148				
1.4 S, 1.6 S, 1.8 Si, 1.8 D, 1.8 TD Excl. 1.6 Turbo							21B	KGA237	KTA237	
1.6 XR2i, 1.8 16V XR2i, RS 1800 Excl. 1.6 Turbo							21B			
1.1, 1.3, 1.4 C, CLX, Ghia, Youth Senza barra stabilizzatrice - without stabilizer. Excl. 1.6 LX, SX, Futura	(GFJ)	01.94 - 12.95		KSM237	KGA239	KTA239				
1.1, 1.3, 1.4 C, CLX, Ghia, Youth Con barra stabilizzatrice - with stabilizer. Excl. 1.6 LX, SX, Futura							21A			
1.1, 1.3 SX, 1.6 1.4 Si, SX, Futura							21C			
1.8 D Senza barra stabilizzatrice - without stabilizer							21C			
1.8 TD				KSM239						

FIESTA III CLASSIC

1.1, 1.3, 1.4 Excl. 1.6 LX, Si, Futura	(GFJ)	12.95 - 12.97	21C	KSM237	KGA239	KTA239	
1.8D, 1.8 TD Excl. 1.6 LX, Si, Futura				KSM239			




MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
FIESTA IV							
 1.0, 1.25, 1.3 16V, 1.4 16V excl. Fiesta Classic	(JA, JB)	08.95 - 10.98	21D	KSM269	KGA359	KTA359	
 1.0, 1.25, 1.3 16V		11.98 - 12.01	21E	KSM452	KGA487	KTA487	
 1.4 16V, 1.6			21D		KGA359	KTA359	
 1.8 D, 1.8 DI excl. Fiesta Classic		08.95 - 10.98	21D				
 1.8 D, 1.8 DI		11.98 - 12.01	21E				
FIESTA V							
 excl. ST150	(JH, JD)	11.01 - 06.08		KSM533	KGA489	KTA489	THR489
FIESTA VI							
	(CB1, CCN)	06.08 -			KGA655	KTA655	
		09.12 -					
FIESTA VII							
		05.17 -					
FOCUS							
 ,  ,  1.4, 1.6	(DAW, DBW, DFW)	06.98 - 12.04		KSM376	KGA398	KTA398	
 ,  ,  1.8, 1.8 TD, 2.0			KSM377				
 1.4, 1.6	(DNW)		KSM419	KGA439	KGA439		
 1.8, 1.8 TD, 2.0			KSM420				
FOCUS II							
 ,  , 	(DA)	11.04 - 09.12		KSM601	KGA576	KTA576	
	(DAW)		KSM602	KGA577	KGA577		
		10.06 - 09.10					
FOCUS III							
 , 		05.11 - 10.14			KGA663	KTA663	
 , 		09.14 -					
		05.11 - 10.14					
		09.14 -					
FOCUS C-MAX							
 1.6		10.03 - 03.07			KGA576	KTA576	
 1.8, 1.6TDCi							
 1.8TDCi, 2.0TDCi							
FUSION							
	(JU)	08.02 - 12.03	22A	KSM537	KGA575	KTA575	
GALAXY							
 4X2, 4X4 2.0, 2.3, 1.9TDi Excl. 	(WGR)	02.95 - 05.06		KSM308	KGA320	KTA320	
 4X2, 4X4 2.8 V6 Excl. 			KSM309				
	(WA6)	05.06 - 06.15					
	(CK)	01.15 -					

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
KA							
	(RB)	09.96 - 10.98	21D	KSM319	KGA360	KTA360	
		11.98 - 03.00	21E	KSM319	KGA490	KTA490	
		04.00 - 04.03			KSM467	KGA491	KTA491
 1.3i, 1.6i Street ka, Sport ka		04.03 - 12.07					
	(RU8)	10.08 -			KGA608	KTA608	
KUGA							
		03.08 - 11.12					
	(DM2)	10.12 -					
MONDEO I							
 ,  excl.  , 4X4	(GBP)	03.93 - 05.93					
 ,  excl.  , 4X4			06.93 - 08.96		KSM197	KGA197	KTA197
 ,  4X4 excl. 		01.95 - 08.96					
 Clipper excl.  , 4X4, excl. 	(BNP)	03.93 - 05.93		KSM238	KGA238	KTA238	
 Clipper excl.  , 4X4, excl. 			06.93 - 08.96				
MONDEO II							
 ,  excl. 2.5 ST200, 	(BAP, BFP)	09.96 - 10.00		KSM355	KGA401	KTA401	
 Clipper excl. 2,5 V6,  , excl. 	(BNP)	09.96 - 10.00		KSM340	KGA402	KTA402	
 Clipper 2.5 V6 excl.  , excl. 				KSM356			
MONDEO III							
 ,  excl. 3.0 24V, ST220	(B4Y, B5Y)	10.00 - 08.07		KSM478	KGA578	KTA578	
 Clipper excl 3.0 24V, ST220	(BWY)	10.00 - 08.07		KSM480	KGA579	KTA579	
MONDEO IV							
	(BA7)	03.07 - 01.15		KSM584	KGA610	KTA610	
				KSM639	KGA633	KTA633	
MONDEO V							
	(CD)	09.14 -					
PUMA							
 1.4, 1.6, 1.7	(EC)	03.97 - 10.98	21D	KSM230	KGA399	KTA399	
 1.4, 1.6, 1.7			11.98 - 06.02		21E	KGA400	KTA400
S-MAX							
	(VA6)	05.06 - 12.14					
	(CJ, WA6)	01.15 -					

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	---	---	---	---

HONDA




CIVIC IV/BALLADE

 1.3, 1.5  1.6  1.5, 1.6	(EG) (EH) (EJ)	10.91 - 11.95 10.91 - 03.96			KGA495	KTA495	
--	-------------------	--------------------------------	--	--	--------	--------	--










CIVIC IV/V

 1.4, 1.5  1.6, 1.8	(MA) (MB)	09.94 - 02.01			KGA495	KTA495	
 1.4, 1.5, 1.6	(EJ9) (EK)	11.95 - 02.01			KGA495	KTA495	

CIVIC V

 1.6  1.6 VTEC, VTi	(EJ6) (EJ7, EJ8, EM1)	11.95 - 02.01			KGA497	KTA497	
 2.0 Itd	(MB7)	01.97 - 02.01			KGA496	KTA496	
 Aerodeck 1.4, 1.5, 1.6, 1.8, 2.0i TD	(MB, MC)	04.98 - 02.01			KGA496	KTA496	

CIVIC VI

 (3 m),  ,  excl. 1.7 CTDi, 2.0 sport, R type	(EM2, EP1, EP2, ES4, ES5)	02.01 - 09.05					
 (5 m) excl. 1.7 CTDi, 2.0 sport, R type	(EU5/7, EU6/8)	02.01 - 02.06					
 (3/5 m) 1.7 CTDi  (5 m) 2.0i  (3 m) 2.0  R type	(EP, EU9)	04.02 - 02.06					
 (5m) 2.0i	(EV1)	09.03 - 02.06					




CIVIC VIII

 excl. 	(FD)	09.05 - 09.12			KSM461	KGA635	KTA635
 excl. Hybrid (prod. JAP)							
 excl. Hybrid (prod. GB, TR)							

CIVIC/BALLADE CRX III

 CRX 1.6i ESI  CRX 1.6i VTi	(EH6) (EG2)	03.92 - 12.98			KGA495	KTA495	
--	----------------	---------------	--	--	--------	--------	--



JAZZ

	(GD)	03.02 - 04.05			KGA580	KTA580	
		04.05 - 07.08					
	(GE)	07.08 -					


MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	---	---	---	---

► HYUNDAI

ACCENT I

	(X3)	09.94 - 04.97	24A	KSM240	KGA240	KTA240	
		05.97 - 01.00	24B	KSM280	KGA403	KTA403	

ACCENT II

	(LC)	01.00 - 10.05	24B	KSM427	KGA605	KTA605	
--	------	---------------	-----	--------	--------	--------	--



ACCENT III

	(MC)	11.05 - 12.09					
--	------	---------------	--	--	--	--	--

ACCENT IV

	(RB)	11.10 -					
--	------	---------	--	--	--	--	--



ATOS/SANTRO

	(MX)	11.97 - 10.98	25A				
		11.98 - 12.08	25B		KGA498	KTA498	

ATOS PRIME

	(MX)	11.98 - 12.08	25B		KGA498	KTA498	
--	------	---------------	-----	--	--------	--------	--


COUPÉ

	(RD)	06.96 - 04.02		KSM341	KGA404	KTA404	
	(GK)	03.02 - 08.09		KSM502	KGA433	KTA433	

GETZ

	(TB)	08.02 - 12.10		KSM557	KGA650	KTA650	
--	------	---------------	--	--------	--------	--------	--

i10

	(PA)	10.07 - 12.17					
--	------	---------------	--	--	--	--	--


i10 II

	(BA, IA)	08.13 -					
--	----------	---------	--	--	--	--	--

i20






















	(PB, PBT)	09.08 - 12.15					
--	-----------	---------------	--	--	--	--	--

i20 II

	(GB, IB)	11.14 -					
--	----------	---------	--	--	--	--	--


i30

	(FD)	O.E. 54651-2R100 / 54651-2R200 excl. FDH	10.07 - 11.11				
		O.E. 54661-2R100 / 54661-2R200 excl. FDH					
		O.E. 54651-2L100 / 54651-2L200 / 54651-2L600 excl. FDH		KSM642	KGA636	KTA636	
		O.E. 54661-2L100 / 54661-2L200 / 54661-2L600 excl. FDH					
	CW	10.07 - 06.12					

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
i30 II							
 excl. CW	(GD)	10.11 -					
i40							
 excl. CW	(VF)	03.12 -					
 CW		07.11 -					
ix35							
 excl. 4WD	(LM, EL, ELH)	01.10 -					
 4WD							
JEEP							
RENEGADE							
 excl. 4WD	(BU, B1)	07.14 -	13A	KSM693	KGA675	KTA675	
 4WD excl Trailhawk			13B		KGA696	KTA696	
KIA							
CEE'D							
	(ED)	12.06 - 12.12					
	(JD)	09.12 -					
PICANTO							
	(SA)	04.04 -					
PICANTO II							
	(TA)	05.11 -					
PICANTO III							
	(JA)	03.17 -					
RIO II							
	(JB)	03.05 -					
RIO III							
 1.2/1.4/1.1D	(UB)	09.11 -					
 1.4D							
SPORTAGE							
 excl. AWD	(SL)	07.10 - 12.15					
 AWD							

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	---	---	---	---

VENGA









	(YN)	02.10 -					
--	------	---------	--	--	--	--	--

LANCIA

DEDRA

 ,  excl. 4X4	(835)	01.89 - 12.97		KSM 67	KGA 22	KTA 22	
 ,  excl. 4X4	(835)	01.98 - 07.99		KSM 22			

DELTA I

 1.3, 1.5	(831AB0)	09.79 - 02.83					
 1.3, 1.5  1.6 GT, 1.6 HF Turbo		02.83 - 01.86					
 1.3, 1.5, 1.9 D, 1.9 TD excl. 4X4  1.6, 1.6 GTie, 1.6 HF Turbo excl. 4X4		02.86 - 01.94		KSM 53	KGA 53	KTA 53	THR 53
 2.0 HF 8V Integrale 4X4  2.0 HF 16V Integrale 4X4		02.86 - 01.94 1987 - 01.94		KSM 73	KGA 73	KTA 73	THR 73
 2.0 HF Integrale Evoluzione		06.91 - 01.94		KSM152	KGA152	KTA152	THR152

DELTA II

 1.4, 1.6	(836)	06.93 - 08.99		KSM222	KGA 22	KTA 22	
 1.8, 2.0 16V				KSM198	KGA 22	KTA 22	
 1.9 TD		10.94 - 08.99		KSM268	KGA499	KTA499	
 2.0 Turbo 16V excl. 		06.93 - 08.99		KSM199	KGA199	KTA199	







DELTA III

 excl. 1.9 JTD, 2.0 JTD Multijet	(844)	09.08 - 08.14	13A	KSM603	KGA611	KTA611	
 1.9 JTD, 2.0 JTD Multijet			13B	KSM628	KGA624	KTA624	

FULVIA

 - Front 		1963 - 1970			KGA603	KTA603	
 - Front 		1963 - 1971					
 - Front 		1961 - 1975					

LYBRA

























 1.6, 1.8 excl. 	(839AX)	07.99 - 10.05	13A	KSM413	KGA426	KTA426	
 2.0, 1.9 JTD, 2.4 JTD			13B	KSM414	KGA428	KTA428	
 1.6, 1.8 excl. 			13A	KSM422	KGA426	KTA426	
 2.0, 1.9 JTD, 2.4 JTD			13B	KSM423	KGA428	KTA428	

MUSA

	(350)	10.04 - 09.12			KGA570	KTA570	
--	-------	---------------	--	--	--------	--------	--

PHEDRA


	(179)	09.02 - 11.10		KSM604	KGA582	KTA582	
--	-------	---------------	--	--------	--------	--------	--

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
PRISMA							
 1.3, 1.5, 1.6  1.9 D, 1.9 TD	(831AB0)	02.83 - 01.86					
 1.3, 1.5, 1.6 excl. 4X4  1.9 D, 1.9 TD excl. 4X4		02.86 - 02.92		KSM 53	KGA 53	KTA 53	THR 53
 2.0 8V Integrale		02.86 - 02.92		KSM 73	KGA 73	KTA 73	THR 73
THEMA							
 > Ch. 29408 excl. 3.0 V8 8.32, 	(834)	11.84 - 10.86			KGA 16	KTA 16	
 Ch. 29409 >  excl. 3.0 V8 8.32, 		11.86 - 07.94		KSM 09	KGA 09	KTA 09	
 Ch. 29409 >  excl. 3.0 V8 8.32, 		11.86 - 07.94					
 3.0 V6 CRD, 3.6 V6 VVT	(LX)	09.11 - 10.14					
Y 10							
 4X2	(156)	03.85 - 12.95		KSM 30	KGA 30	KTA 30	
 4X4				KSM 30	KGA648	KTA648	
Y							
	(840A)	11.95 - 09.03		KSM305	KGA211	KTA211	THR211
YPSILON							
	(843)	10.03 - 12.11		KSM567	KGA570	KTA570	
YPSILON II							
 excl. Metano, TwinAir	(312)	05.11 -		KSM693	KGA676		
 Metano, TwinAir							

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	---	---	---	---

MAZDA

2

 (DY)	01.03 - 12.09		KSM533	KGA489	KTA489	THR489
---	---------------	--	--------	--------	--------	--------

2 II

 (DE)	10.07 - 06.15					
---	---------------	--	--	--	--	--





3



 ,  1.6, 2.0	(BK)	10.03 - 06.09				
---	------	---------------	--	--	--	--



3 II

 (BL)	12.08 - 09.14					
---	---------------	--	--	--	--	--

6







 excl. 	(GG)	06.02 - 12.08	KSM533	KGA666	KTA666	
 excl.  , 4X4	(GY)	08.02 - 12.07				

 4X4 excl. 	(GY)	06.02 - 12.07				
--	------	---------------	--	--	--	--


 4x2	(GH)	08.07 - 07.13				
 4x4						

MERCEDES



A CLASS (W168/169/176)

 (W168)	07.97 - 08.04		KSM358	KGA523	KTA523	
 A150, A160, A170, A180, A200	(W169)	09.04 - 06.12	KSM605	KGA584	KGA584	
 A200T, A160CDi, A180CDi, A200CDi		09.04 - 06.12	KSM652			
 excl.  , 4-matic, AMG	(W176)	06.12 - 05.18				
 excl. 4-matic, AMG		06.12 - 05.18				



A CLASS (W177, V177)































 excl. Multilink	(W177, V177)	03.18 -				
--	--------------	---------	--	--	--	--

B CLASS (W245/246)

 B150, B170, B200, B200TURBO	(W245)	03.05 - 11.11	KSM463	KGA637	KTA637	
 B180CDi, B200CDi		03.05 - 11.11	KSM644			
180, 200, 180 CDI, 200 CDI, 220 CDI excl. 4-matic	(W246, W242)	11.11 - 12.18				

C CLASS (W203)

 (W203)	05.00 - 02.07		KSM465	KGA502	KTA502	
 T-Model	(S203)	03.01 - 08.07	KSM505			
 Sportcoupé	(CL203)	03.01 - 06.11	KSM494			

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
C CLASS (W204/S204)							
 C180, C180K, C200K, C230, C250 excl. 4-matic, AMG, 	(W204)	01.07 - 01.14					
 C280, C300, C350, C180CDi, C200CDi, C220CDi, 250CDi, C320CDi, C350CDi excl. 4-matic, AMG, 							
 4-matic, excl. AMG, 							
 C180K, C200K, C230, C250 excl. 4-matic, AMG, 	(S204)	08.07 - 08.14					
 C280, C300, C350, C180CDi, C200CDi, C220CDi, 250CDi, C320CDi, C350CDi excl. 4-matic, AMG, 							
 C180, C200, C250 excl. 4-matic, AMG, 	(C204)	06.11 -					
 C350, 220CDi, 250CDi excl. 4-matic, AMG, 							
 4-matic C180, C200, C250 excl. AMG, 							
 4-matic C350, 220CDi, 250CDi excl. AMG, 							
CLA							
 excl. 4-matic, AMG	(C117)	01.13 - 03.19					
 Shooting Brake excl. 4-matic, AMG	(X117)	01.15 - 03.19					
CLC							
	(203)	05.08 - 06.11			KGA502	KTA502	
CLK (A-C208/209)							
 4 Cilindri	(A208, C208)	06.97 - 06.02			KSM400	KGA527	KTA527
 6 Cilindri					KSM401		
 200KOMPRESSOR, CLK200CGi	(C209) (A209)	06.02 - 05.09 02.03 - 03.10			KSM538		
 CLK240, CLK280, CLK320, CLK350, CLK500, CLK220CDi, CLK270CDi					KSM539		
CLS							
	(C219)	10.04 - 12.10					

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	--	--	--	--

E CLASS (W124/210)

excl. sportline, 4-Matic	(W124)			KSM 18	KGA 14	KTA 14	
200T, TE, TD, 230TE, E200, E220 excl. 4-Matic		06.93 - 06.95		KSM 14			
250TD, 280TE, 300TD+TURBO, 300TE, TE-24 excl. 4-Matic	(S124)			KSM 55			
280TE, 300TD TURBO, 300TE, TE 24V (full options) excl. 4-Matic				KSM 18			
200E, 200D, 220E, 220CE, 230E, 230D, 230CE excl. 4-Matic	A124	06.93 - 03.98		KSM 14			
250D+TURBO, 260E, 280E, 300D excl. 4-Matic	A124	06.93 - 03.98		KSM 55			
excl. sportline	(C124)	06.93 - 06.97					
4+5 Cilindri excl. , , , , 4-Matic				KSM298	KGA298	KTA298	
6 Cilindri excl. , , , , 4-Matic	W210	05.95 - 03.02		KSM300			
8 Cilindri excl. , , , , 4-Matic							

E CLASS (W211/S211)

excl. , ,	(W211)	03.02 - 12.08		KSM540			
-----------	--------	---------------	--	--------	--	--	--

SLK (R170)

200, 230 K, 320 excl. , , , AMG	(R170)	09.96 - 04.04					
---------------------------------	--------	---------------	--	--	--	--	--

SLK (R171)

excl. , , , AMG	(R171)	04.04 - 02.11		KSM663			
-----------------	--------	---------------	--	--------	--	--	--

MINI

COUNTRYMAN


excl. , , ALL4	(R60)	08.10 - 10.16					
----------------	-------	---------------	--	--	--	--	--

MINI

One, One D, Cooper excl. Cooper S Sport Plus	(R50, R53)	03.02 - 09.06		KSM555	KGA470	KTA470	THR470
Cooper S incl. Sport Plus	(R50, R53)	03.02 - 09.06					
One, Cooper, Cooper S	(R50, R53)	07.04 - 09.06		KSM636	KGA630	KTA630	
	(R56)	10.06 - 11.13					
Clubmann	(R55)	10.07 - 06.14		KSM636	KGA630	KTA630	
Cabriolet	(R57)	11.07 - 06.15					
Coupè	(R58)	09.11 - 05.15					
excl. ,	(F56)	12.13 -					
excl. ,	(F55)	07.14 -					

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	---	---	---	---

PECEMAN







 excl.  , 	(R61)	04.12 - 10.16					
---	-------	---------------	--	--	--	--	--

ROADSTER


 excl. 	(R59)	11.11 - 04.15		KSM636	KGA630	KTA630	
---	-------	---------------	--	--------	--------	--------	--

NISSAN

ALMERA

 excl. 2.2 Di	(N16)	04.00 - 07.00		KSM484	KGA544		
 excl. 2.2 Di	(N16E)	01.00 - 07.00			KGA544		
 excl. 2.2 Di	(N16)	08.00 - 02.01		KSM484			
 excl. 2.2 Di	(N16E)	08.00 - 08.03					
 excl. 2.2 Di	(N16)	07.00 - 11.06		KSM484			
 excl. 2.2 Di	(N16E)	09.03 - 09.06					

JUKE

	(F15)	06.10 -			KGA678	KTA678	
---	-------	---------	--	--	--------	--------	--

MICRA II

	(K11)	08.92 - 02.03		KSM204	KGA204	KTA204	
---	-------	---------------	--	--------	--------	--------	--




MICRA III

	(K12)	01.03 - 05.10		KSM606	KGA587	KTA587	
---	-------	---------------	--	--------	--------	--------	--


MICRA IV

 1.2 80 hp	(K13)	05.10 -					
 1.2DIG-S 98 hp, 1.5dCi							

MICRA V

 1.0 71 hp	(K14)	12.16 -					
 0.9 IG-T90, 1.0 IG-T100							
 1.5dCi							


NOTE

 excl. 1.5 dCi	(E11)	03.06 - 06.12		KSM645	KGA587	KTA587	
	(E12)	06.13 -					

PRIMERA

 Excl. 2.2CDi	(P12, WP12)	01.02 -					
 2.2CDi							
 Excl. 2.2CDi			KSM544				
 2.2CDi			KSM545				

PULSAR

	(C13)	10.14 -					
---	-------	---------	--	--	--	--	--

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	--	--	--	--

OPEL

ADAM

	(M13)	10.12 - 02.19					
--	-------	---------------	--	--	--	--	--

AGILA

	(H00)	09.00 - 12.07		KSM646	KGA639	KTA639	
1.3 CDTi		08.03 - 12.07					
1.0, 1.2	(H08)	04.08 - 10.14					
1.3CDTi							

ASTRA F

1.6, 1.8, 1.7D excl. GT, GSi	F/CC	09.91 - 03.98		KSM160	KGA160	KTA160	
2.0GSi + 16V GT				KSM161			
1.8GSi							
Caravan excl.	F	09.91 - 03.98		KSM250	KGA250	KTA250	
					KGA160	KTA160	

ASTRA G









































1.6, 1.8, 1.7TD excl. 2.0 OPC	(F48, F08, F69)	04.98 - 03.04		KSM378	KGA407	KTA407	
2.0, 2.2, 2.0Di, 1.7DTi excl. 2.0 OPC				KSM379			
1.6, 1.8, 1.7TD excl. 2.0 OPC,	(F35)	04.98 - 08.04		KSM381	KGA408	KTA408	
2.0, 2.2, 2.0Di, 1.7DTi excl. 2.0 OPC,				KSM508			
	(F07)	03.00 - 05.05		KSM471	KGA407	KTA407	
	F67	03.00 - 05.05		KSM507			













ASTRA H

1.4, 1.6, 1.8, 1.3 CDTi, incl. GTC, excl. IDS, , Twintop	(A04)	03.04 - 05.14		KSM607	KGA588	KTA588		
2.0 T, 1.7 CDTi, 1.9 CDTi, incl. GTC, excl. IDS, , Twintop								
1.4, 1.6, 1.8, incl. excl. IDS,								KSM608
1.7 CDTi, 1.9 CDTi, 2.0 T, incl. excl. IDS,								KSM662

ASTRA J

	(P10)	09.09 - 07.12					
		08.12 - 10.15					





MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE					
CALIBRA								
 2.0, 2.0 16V, 2.5 V6 excl. 2.0 Turbo,  , 	(85)	06.90 - 07.97		KSM159	KGA159	KTA159		
CORSA A								
 1.0, 1.2, 1.4		09.82 - 03.93		KSM 34	KGA 34	KTA 34		
 1.5 D, 1.5 TD			KSM45					
 1.6 GSI		05.88 - 03.93		KSM 81				
CORSA B								
 1.0, 1.2, 1.4		02.93 - 11.00		KSM195	KGA 34	KTA 34		
 1.5 D, 1.5 TD			KSM318					
 1.6 GSI			KSM242					
CORSA C								
 1.0, 1.2	(F08, F68)	09.00 - 12.09	33A	KSM468	KGA548	KTA548		
 1.4, 1.8, 1.3CDTi, 1.7Di+DTi				KSM469				
 1.0, 1.2			33B	KSM468	KGA503	KTA503		
 1.4, 1.8, 1.3CDTi, 1.7Di+DTi				KSM469				
CORSA D								
 1.0, 1.2, 1.4	(S07)	07.06 - 08.14		KSM570	KGA549	KTA549		
 1.3CDTi, 1.7CDTi			KSM571					
 1.6T GSi								
CORSA E								
 1.2, 1.0T, 1.4 (90hp) excl. 1.6 turbo,  , 	(X15)	09.14 -						
 1.4T, 1.3CDTi excl. 1.6 turbo,  , 								
INSIGNIA A								
 1.6, 1.8 excl. 4WD, 	(G09)	07.08 - 03.17						
 1.4T, 1.4T Bi-FUEL, 1.6T excl. 4WD, 								
 2.0T, 1.6CDTi, 2.0CDTi, 2.0CDTi Bi-POWER excl. 4WD, 								
 2.0T/2.0CDTi/2.0CDTi Bi-POWER incl. 4WD excl. 								
 1.6, 1.8 excl. 4WD, 								
 1.4T, 1.4T Bi-FUEL, 1.6T excl. 4WD, 								
 2.0T, 1.6CDTi, 2.0CDTi, 2.0CDTi Bi-POWER excl. 4WD, 								

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
MERIVA A							
 (X03)		05.03 - 05.10			KGA654	KTA654	
MERIVA B							
 (S10)		06.10 - 03.17					
TIGRA							
 1.4 16V, 1.6 16V	(95)	07.94 - 12.00		KSM251	KGA 34	KTA 34	
TIGRA TWINTOP							
	(X04)	06.04 - 12.10		KSM684			
ZAFIRA A							
 1.6, 1.8 excl. 2.0 Turbo OPC	(T98)	04.99 - 07.05		KSM431	KGA536	KTA536	
 2.0 DTi, 2.2 DTi excl. 2.0 Turbo OPC				KSM509			
ZAFIRA B							
 1.4, 1.6, 1.8	(A05)	07.05 - 04.15					
 2.2, 2.0T, 1.7CDTi, 1.9CD							

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	---	---	---	---


PEUGEOT

106


 1.0, 1.1, 1.3, 1.4, 1.6, 1.4D, 1.6D, Rallye, excl.120CV	(1A, 1C)	09.91 - 04.96		KSM 61	KGA163	KTA163	THR163
 incl.120CV				KSM 04			
 1.0, 1.1, 1.4, 1.6 (90hp), 1.5D		04.96 - 05.05		KSM301			
 GTi 16v				KSM440			
 Rallye (103hp)				KSM470			
 Sport (120hp)							

KIT MOLLE COSTITUITO DI SOLE MOLLE ANTERIORI


107

	(PM, PN)	06.05 - 05.14			KGA590	KTA590	
---	----------	---------------	--	--	--------	--------	--

108


		05.14 -					
---	--	---------	--	--	--	--	--

205

  1.0,1.1, 1.3, 1.4, 1.6, CT, CJ+CABRIO excl. GTi, CTi, Rallye, 1.7 TD,  F	(741 A/C, 20 A/C)	02.83 - 09.98		KSM 61	KGA254	KTA254	
 1.3 Rallye, 1.6 GTi, 1.9 GTi		12.84 - 09.98		KSM 04	KGA253	KTA253	THR253
 1.9 Gentry, 1.7 TD		01.90 - 09.98		KSM162			

KIT MOLLE COSTITUITO DI SOLE MOLLE ANTERIORI

206

  1.1, 1.4	(2A/C)	09.98 - 12.12		KSM439	KGA410	KTA410	THR410
  1.6, 1.6 16V, 1.4HDi		12.99 - 09.09		KSM522	KGA410	KTA410	THR410
  1.9D, 2.0GTi, 2.0HDi, 1.6 16V HDiF	(2D)	04.99 - 12.07		KSM428	KGA410	KTA410	THR410
 CC		09.00 - 12.07		KSM428	KGA410	KTA410	THR410

KIT MOLLE COSTITUITO DI SOLE MOLLE ANTERIORI

206 +

 ?aPlus 1.1, 1.4	(2L, 2M)	01.09 - 08.13		KSM439	KGA410	KTA410	THR410
 ?aPlus 1.6, 1.6 16V, 1.4HDi				KSM522			
















KIT MOLLE COSTITUITO DI SOLE MOLLE ANTERIORI

207

   1.4, 1.4HDi	(WA, WC, WK)	02.06 - 12.15	11A	KSM583	KGA591	KTA591	
   1.6, 1.6 Turbo 150hp, 1.6HDi, 1.6HDiF			11B		KGA669	KTA669	
			   1.6, 1.6 Turbo 150hp, 1.6HDi, 1.6HDiF	11A	KSM586	KGA591	KTA591
11B				KGA669		KTA669	

   1.6, 1.6 Turbo 150hp, 1.6HDi, 1.6HDiF	(WD)			11A	KSM586	KGA591	KTA591	
				11B		KGA669	KTA669	

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
208							
1.0, 1.2 excl. GTi	(CA, CC)	03.12 -	11A	KSM694	KGA677	KTA677	
			11B				
1.4, 1.6, 1.6THP, 1.4HDi, 1.4E-Hdi, 1.6E-HDi excl. GTi			11A				
			11B				
306							
1.4, 1.6, 1.8 MANUAL GEAR	(7A, 7B, 7C, N3, N5)	01.93 - 04.02			KGA140	KTA140	THR140
1.8 AUTOMATIC, 1.9TD							
Xsi, S16, Hdi							
KIT MOLLE COSTITUITO DI SOLE MOLLE ANTERIORI							
307							
1.4, 1.6 (no automatic), 1.4HDi excl. , Commercial,	(3A/C)	03.00 - 03.09		KSM472			
1.6 automatic, 2.0, 1.6HDi, 2.0HDi 90+110hp excl. , Commercial,			KSM473				
BREAK 1.4, 1.6 (no automatic), 1.4HDi excl. , Commercial,	(3E)	03.00 - 12.09		KSM550	KGA505	KTA505	
BREAK 1.6 automatic, 2.0, 1.6HDi, 2.0HDi 90+110hp excl. , Commercial,			KSM551				
1.4, 1.6 (no automatic), 1.4HDi excl. , Commercial,	(3E, 3H)	03.02 - 12.09		KSM552			
1.6 automatic, 2.0, 1.6HDi, 2.0HDi 90+110hp excl. , Commercial,			KSM553				
308							
	(4A, 4C)	09.07 - 10.14		KSM673	KGA664	KTA665	
	(4E, 4H)	09.07 - 10.14		KSM681			
	(4B)	04.09 - 12.14		KSM673			
308 II							
 excl. 1.6 THP, 1.6 GT 205, 1.6 Gti, 2.0 GT Hdi,	(LB, LP, LW, LH, L3)	09.13 -				KTA667	
 excl. 1.6 THP, 1.6 GT 205, 1.6 Gti, 2.0 GT Hdi,	(LC, LJ, LR, LX, L4)						
407							
1.8, 2.0, 1.6 HDiF excl.	(6D)	05.04 - 02.11		KSM610			
2.2, 2.0 HDiF excl.							
1.8, 2.0, 1.6 HDiF excl.	(6E)	05.04 - 12.10			KGA592	KTA592	
2.2, 2.0 HDiF excl.							

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
508							
 1.6VTi, 1.6THP, 1.6HDI, 1.6 E-HDi excl. Hybrid excl. 	(8D, 8E)	11.10 - 12.18					
 2.0HDi, 2.0HDi excl. 508GT, Hybrid, 							
1007							
 1.4, 1.6-16V, 1.4 HDI	(KM)	04.05 -			KGA477	KTA477	
2008							
	(CU)	03.13 -	11B 11A				
3008							
 1.2, 1.6VTi, 1.6HDiF, 1.6THP excl. Hybrid	(OU)	06.09 - 08.16					
 2.0HDiF excl. Hybrid							
3008 SUV							
 , excl. Hybrid	(M)	05.16 -					
5008							
 1.2, 1.6VTi, 1.6THP, 1.6HDi	(OU, OE)	09.09 - 03.17					
 2.0HDi Cambio manuale							

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	--	--	--	--

RENAULT

CAPTUR

excl. 0.9 TCE	(J5, H5)	06.13 -					
---------------	----------	---------	--	--	--	--	--





CLIO I

1.1 RL, RN 1.1 RC 1.2 RL, RN, RT, NRJ	(B/C/S 571) (3/5 57) (B/C/S 572)	05.90 - 12.93 01.94 - 05.97 05.90 - 05.97	36A 36D	KSM103	KGA112	KTA112		
1.2 RL, RN, RT	(B/C/S 57 A/R)	05.90 - 09.92	36B 36D		KGA165	KTA165		
1.2 RL, RN, RT excl. Auto.	(B/C/S 57 A/R)	10.92 - 12.93	36A 36D		KGA112	KTA112		
1.2 Automatic 1.2 RL, RN, RT 1.2 RL	(B/C/S 57L) (B57L)	10.92 - 12.93 05.90 - 12.93 01.94 - 05.97	36B 36D		KGA165	KTA165		
1.2 RL, RN, RT, Be Bop 1.2 RN, RT 1.2	(B/C/S 57A) (B/C/S 57 R/S) (C/S 572)	01.94 - 05.97 01.94 - 05.97 01.94 - 05.97	36A 36D		KGA112	KTA112		
1.4 RL, RN, RT, Baccara, Automatic 1.4 RN, RT, Baccara, Automatic	(B/C 57B) (B/C 573, 57T)	05.90 - 09.92 05.90 - 09.92	36B 36D		KGA165	KTA165		
1.4 RL, RN, RT, Baccara excl. Auto. 1.4 RN, RT, Baccara excl. Auto.	(B/C 57B) (B/C 573, 57T)	10.92 - 12.93 10.92 - 12.93	36A 36D		KGA112	KTA112		
1.4 Automatic 1.4 S 1.4 RTi	(B/C 57B, C 57T, C 573) (C57B, C57T)	10.92 - 12.93 05.90 - 12.93 05.90 - 12.93	36B 36D		KGA165	KTA165		
1.4 RL, RN, RT excl. Auto. 1.4 RN, RT, Be Bop excl. Auto. 1.4 RL, RN, RT, Be Bop 1.4 excl. Automatic	(C57B) (B/C 57T) (B/C/S 57Y/7) (C573) (B/C/S 577)	01.94 - 05.97	36A 36D		KGA112	KTA112		
1.4 RL, RN, RT 1.4 S, RTi 1.4 Automatic	(B/5 57B) (C57B) (C573/57B/57T)	01.94 - 05.97 01.94 - 05.97 01.94 - 05.97	36B 36D					
1.7 RT, Baccara 1.8 RT, Baccara 1.8 RT 1.8 RT, Baccara	(B/C 574) (B/C 57C) (B 57C) (557D, B578)	01.91 - 12.93 01.91 - 12.93 01.94 - 05.97 01.94 - 05.97	36B 36D		KGA165	KTA165		
1.8 RSi	(C57 9/E/H)	01.93 - 05.97						
1.8 16V	(C575, C57D)	08.91 - 05.97			KSM108	KGA108	KTA108	
1.9 D 1.9 D	(B/C/S 57I, B/S 576) (B/C 57U)	01.91 - 12.93	36B 36D			KGA165	KTA165	
1.9 D 3m	(C57I, S57I)	01.94 - 05.97	36A 36D	KSM103	KGA112	KTA112		
1.9 D 5 m	(B57I)	01.94 - 05.97	36B 36D		KGA165	KTA165		
2.0 16V Williams	(C57M)	01.94 - 09.98		KSM107	KGA103	KTA103		
		05.97 - 03.98	36C	KSM103				






KIT MOLLE COSTITUITO DI SOLE MOLLE ANTERIORI

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	---	---	---	---

CLIO II

 1.2, 1.2 16V excl. 3.0 V6 RS	(B/C/BO/1)	09.98 -		KSM373	KGA412	KTA412	
 1.4, 1.4 16V, 1.6, 1.5 dCi, 1.9 D, 1.9 dTi excl. 3.0 V6 RS					KGA413	KTA413	THR413
 1.6 16V excl. 3.0 V6 RS	(CBOT)	09.98 -		KSM497	KGA437	KTA437	
 2.0 RS excl. 3.0 V6 RS	(CBOM)	02.00 -			KGA506	KTA506	













CLIO III

 1.2, 1.4, 1.5 D, 1.6	(BRO/1, CRO/1)	06.05 -		KSM578	KGA593	KTA593	
 2.0 		01.06 -		KSM612	KGA600	KTA600	
 Grantour excl. 	(KRO/1)	02.08 -			KGA593	KTA593	

CLIO IV

 1.2 (75hp), TCE75, TCE90 excl. RS	(BH)	11.12 -		KSM713	KGA699	KTA699	
 TCE 120 (EDC), dCi 90 (manual gear), dCi 75, dCi 110 excl. RS							
 1.2 (75hp), TCE75, TCE90	(KH)	01.13 -		KSM728			
 TCE 120 (EDC), dCi 90 (manual gear), dCi 75, dCi 110							

LAGUNA I

 .16, 1.8, 1.8 16V, 2.0, 2.0 16V, 1.9DTi, 1.9dCi, 2.2D	(B56)	12.93 - 03.01	38A	KSM274	KGA290	KTA290	
 3.0 V6, 2.0 V6-24V, 2.2TD				KSM290	KGA290	KTA290	
 1.6	(B56)	11.97 - 03.01 02.95 - 03.01 02.95 - 03.01 02.95 - 03.01	38B				
 1.8 RN, RT, RXE							
 1.8 RN, RT excl. ABS							
 2.0 excl. ABS, Auto.							
 4 Cilindri excl.  , 	(K56)	09.95 - 03.01	38A	KSM274	KGA290	KTA290	
 6 Cilindri excl.  , 				KSM290	KGA290	KTA290	



KIT MOLLE COSTITUITO DI SOLE MOLLE ANTERIORI



LAGUNA II


















 1.6, 1.8	(BG0/1)	03.01 - 12.07		KSM474	KGA508	KTA508	
 1.8 AUT., 1.9dCi, 2.0dCi, 2.2dCi, 3.0 V6				KSM475			
 1.6, 1.8	(KG0/1)	03.01 - 12.07		KSM476			
 1.8 AUT., 1.9dCi, 2.0dCi, 2.2dCi, 3.0 V6				KSM477			

KSM: togliere la protezione in gomma dai molloni originali e rimontarla nelle nuove molle nella stessa posizione.
Montare le molle posteriori con il passo variabile verso il basso.

LAGUNA III

 1.6, 2.0, 1.5dCi	(BTO/1, KTO/1)	10.07 - 12.15		KSM707	KGA680	KTA680	
 2.0dCi, 3.5 V6							

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
MÉGANE I							
 excl. 2.0 16V	(BA)	09.95 - 12.02		KSM329	KGA364	KTA364	
 2.0 16V				KSM328	KGA365	KTA365	
 excl. 2.0 16V	(KA)	01.98 - 06.99		KSM329			
 2.0 16V				KSM328			
 excl. 2.0, 2.0 16V	(DA0/1)	10.96 - 12.02		KSM329	KGA364	KTA364	
 2.0, 2.0 16V				KSM328	KGA365	KTA365	
 excl. 2.0, 2.0 16V	(EA0)	10.96 - 12.02		KSM329	KGA364	KTA364	
 2.0, 2.0 16V				KSM328	KGA365	KTA365	
KIT MOLLE COSTITUITO DI SOLE MOLLE ANTERIORI							
MÉGANE II							
 1.4, 1.6, 1.5dCi excl. 	(BMO/1, CMO/1)	11.02 - 01.11		KSM548	KGA594	KTA594	
 2.0 excl. 				KSM549			
 1.9dCi, 2.0dCi excl. 	(LMO/1)	08.03 -					
 1.4, 1.6, 1.5dCi excl. 							
 2.0 excl. 							
 1.9dCi, 2.0dCi excl. 	(KMO/1)	09.03 - 08.09					
 1.4, 1.6, 1.5dCi excl. 							
 2.0 excl. 	(EMO/1)	09.03 - 08.09					
 1.9dCi, 2.0dCi excl. 							
 1.4, 1.6, 1.5dCi excl. 	(EMO/1)	09.03 - 08.09					
 2.0 excl. 							
 1.9dCi, 2.0dCi excl. 							
MÉGANE III							
  1.2TCE/1.6/2.0/1.4T/1.5dCi/1.6dCi excl. RS	(BZO/1, DZO/1, KZO/1)	10.08 -		KSM679	KGA679	KTA679	
  1.9dCi/2.0T excl. RS				KSM680			
  2.0dCi excl. RS							
 1.2TCE/1.6/2.0/1.4T/1.5dCi/1.6dCi							
 1.9dCi/2.0T							
 2.0dCi							
 1.2TCE, 1.4TCE, 2.0, 2.0T, 1.5dCi, 1.6dCi							
 1.9dCi, 2.0dCi							
MÉGANE IV							
 1.2TCE, 1.3TCE, 1.5dCi excl. RS	(B9A/M/N, K9A/M/N)	11.15 -					
 1.6dCi (130hp) excl. RS							
 1.2TCE, 1.3TCE, 1.5dCi excl. RS							
 1.6dCi (130hp) excl. RS							
MODUS							
 1.2	(F/JPO)	12.04 -		KSM647	KGA593	KTA593	
 1.4, 1.6, 1.5dCi				KSM665			

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
SCÉNIC I							
 1.4, 1.6 excl. Auto.	(JA0/1)	11.96 - 06.98		KSM389	KGA366	KTA366	
 1.6 Auto., 2.0, 1.9 D, 1.9 dT, 1.9 dTi						KTA510	
 excl. RX4		06.98 - 06.03			KGA366	KTA366	
 RX4 4X4		07.00 - 06.03					
SCÉNIC II							
 1.4, 1.6/1.5dCi excl. 	(JM0/1)	06.03 - 11.08					
 2.0, 1.9dCi, 2.0dCi excl. 	(JM0/1)	04.04 - 11.08					
 Grand Scénic	(JM0/1)	04.04 - 11.08					
TWINGO							
	(C06)	03.93 - 08.00	34A 36D	KSM202	KGA202	KTA202	
	(C06)	09.00 - 08.04			KGA511	KTA511	
TWINGO II							
	(CN0)	03.07 -		KSM656			
TWINGO III							
	(BCM)	09.14 -		KSM687	KGA668	KTA668	

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	---	---	---	---

▶ ROVER



25

 1.4, 1.6, 1.8 excl.  , ZR, Streetwise	(RF)	10.99 - 05.05		KSM554	KGA415	KTA415	
 2.0 excl.  , ZR, Streetwise				KSM312			




45

 ,  1.4, 1.6, 1.8 excl. 2.5 ZS	(RT)	02.00 - 05.05		KSM311	KGA513	KTA513	
 ,  2.0, 2.0 iDT excl. 2.5 ZS				KSM348			

75

 1.8	(RJ)	02.99 - 05.05		KSM425	KGA512	KTA512	
 2.0 V6, 2.5 V6, 2.0CDT				KSM426			

400

 414, 416, 418 excl. 420, Turbo	(XW)	10.89 - 04.95		KSM223	KGA223	KTA223	
 ,  414, 416, 420 excl.  , Turbo, 	(RT)	05.95 - 03.00		KSM348	KGA513	KTA513	

600






 excl. SD, TD, Turbo, 	(RH)	04.93 - 02.96		KSM259	KGA259	KTA259	
--	------	---------------	--	--------	--------	--------	--

▶ SAAB

9-3

	(YS3D)	02.98 - 09.02 02.98 - 08.03		KSM384	KGA369	KTA369	
 1.9TiD/2.2TiD excl.  , 	(YS3F)	09.02 - 02.15		KSM613	KGA595	KTA595	
 1.8T/2.0T/2.0TURBO excl.  , 							

9-5

 2.0, 2.3, Aero 2.3 Turbo excl. V6	(YS3E)	09.97 - 09.01		KSM354	KGA418	KTA418	
 2.0, 2.3, Aero 2.3 Turbo excl. V6		10.98 - 09.01		KSM510			
 excl.  , V6		09.01 - 12.09			KSM354		
 excl.  , V6					KSM510		

900 II

 4 Cilindri		07.93 - 02.98		KSM261	KGA261	KTA261	
 6 Cilindri							

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	---	---	---	---

SEAT




127 / FURA

 - *: solo molle anteriori e kit colonnine posteriori excl. Crono	(127A, 025A)	04.72 - 12.82		KSM 25*	KGA681	KTA681	
---	--------------	---------------	--	---------	--------	--------	--



128

		01.69 - 12.80			KGA604	KTA604	
---	--	---------------	--	--	--------	--------	--



ALHAMBRA

 1.8/2.0/1.9TDi	(7V8, 7V9)	04.96 - 03.10		KSM308	KGA320	KTA320	
 2.8/2.0TDi				KSM309			
	(710, 711)	06.10 -			KGA552	KTA552	


ALTEA

 1.2TSi, 1.4 16V	(5P)	04.04 -	5A	KSM561	KGA552	KTA552	
			5B		KGA551	KTA551	
 1.6, 2.0FSi, 1.4TSi, 1.8FSi, 1.6TDi, 1.9TDi, 2.0TDi			5A	KSM562	KGA552	KTA552	
			5B		KGA551	KTA551	


ALTEA XL

 1.2TSi, 1.4 16V excl. 4WD	(5P)	04.04 -	5A		KGA552	KTA552	
			5B		KGA551	KTA551	
 1.6, 2.0FSi, 1.4TSi, 1.8FSi, 1.6TDi, 1.9TDi, 2.0TDi excl. 4WD			5A		KGA552	KTA552	
			5B		KGA551	KTA551	



AROSA

	(6H)	05.97 - 06.04	40C	KSM361	KGA419	KTA419	
---	------	---------------	-----	--------	--------	--------	--

CORDOBA I

 excl. 1.8 16V, 2.0 GTI	(6K2, C2)	02.93 - 08.99		KSM213	KGA213	KTA213	THR262
--	-----------	---------------	--	--------	--------	--------	--------




CORDOBA II

 excl. 1.8 20V Turbo Ch. 6K#X#400.001 >	(6K2)	03.99 - 10.02	40B	KSM437	KGA213	KTA213	THR262
 1.8 20V Turbo				KSM447			

CORDOBA VARIO

 Vario	(6KIL)	07.97 - 07.99	40A	KSM437	KGA213	KTA213	THR262
	(6K5)	07.99 - 08.02					

CORDOBA III

 excl. 1.8 20V Turbo, 1.9 TDi, 	(6L2)	10.02 - 11.09		KSM614	KGA515	KTA515	THR515
 1.9. TDi excl. 1.8 20V Turbo, 							

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	--	--	--	--

IBIZA II

excl. 1.8 16V, 2.0 GTI > Ch. 6K#TR80000	(6K1)	02.93 - 12.95		KSM213	KGA193	KTA193	THR262
excl. 1.8 16V, 2.0 GTI Ch. TR80001 > 6K#X#400.000		01.96 - 08.99		KSM151			
1.8 16V, 2.0 GTI > Ch. 6K-ZR082400 > Ch. 6K-ZR599964		10.93 - 03.99		KSM194			
1.8 16V, 2.0 GTI Ch. 6K-ZR082401 > Ch. 6K-ZR599965 >				KSM331			
excl. 1.8 20V Turbo Ch. 6K#X#400.001 >		(6K2)	03.99 - 02.02		KSM424	KGA436	KTA436
1.8 20V Turbo	03.99 - 10.02			KSM432			

IBIZA III

1.2, 1.6, 1.4, 1.4TDi, 1.9SDi	(6L1)	02.02 - 11.09		KSM529	KGA515	KTA515	THR515
1.9TDi, 1.8FR, 1.8CUPRA				KSM530			

IBIZA IV

	(6J5, 6P1)	03.08 - 06.17		KSM648	KGA640	KTA640	
	(6J1, 6P5)	07.08 -					
	(6J8, 6P8)	03.10 - 07.16					

LEON I





























1.4 16V, 1.6, 1.6 16V excl. ,	(1M1)	10.98 - 06.06		KSM351	KGA325	KTA325	THR325
1.8, 1.9 SDI, 1.9 TDi (cambio man.) excl. ,				KSM352			
1.9 TDi (cambio aut.), 1.9 Tdi 150hp excl. 1.8 Turbo, ,				KSM353			

LEON II

1.4 16V, 1.6, 1.2TSi	(1P1)	09.05 - 12.12		5B	KSM572	KTA551	KGA551	THR551		
1.4TSi, 2.0FSi, 1.6TDi			5A	KTA552					KGA552	THR552
			5B	KTA551					KGA551	THR551
1.8TSi, 2.0TFSi, 1.9TDi, 2.0TDi			5A	KTA552					KGA552	THR552
			5B	KTA551					KGA551	THR551
2.0TFSi CUPRA			5A	KTA552					KGA552	THR552
			5B	KTA551					KGA551	THR551
									5A	KTA552

LEON III

Ponte torcente 1.0TSi, 1.2TSi(105hp/110hp) cambio man., 1.2TSi(86hp) excl. Cupra, , 4WD	(5F1)	09.12 -		5B		KGA661	KTA661	
Ponte torcente 1.2TSi(105hp/110hp) cambio aut., 1.4TSi, 1.5TSi excl. Cupra, , 4WD								
Ponte torcente 1.6TDi, 2.0TDi(150hp) excl. Cupra, , FR, 4WD								
Multilink 1.8TSi(180hp) excl. Cupra, , FR, 4WD								
Multilink 2.0TSi(190hp), 2.0TDi(184hp) excl. Cupra, , FR, 4WD								
				5A		KGA664	KTA778	

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
LEON IV							
Ponte torcente  1.0TSi, 1.2TSi(105hp/110hp) cambio man., 1.2TSi(86hp) excl. Cupra,  , 4WD	(5F1)	09.12 -	5B		KGA661	KTA661	
Ponte torcente  1.2TSi(105hp/110hp) cambio aut., 1.4TSi, 1.5TSi excl. Cupra,  , 4WD							
Ponte torcente  1.6TDi, 2.0TDi(150hp) excl. Cupra,  , FR, 4WD							
Multilink  1.8TSi(180hp) excl. Cupra,  , FR, 4WD							
Multilink  2.0TSi(190hp), 2.0TDi(184hp) excl. Cupra,  , FR, 4WD							
TOLEDO I							
	(1L)	01.91 - 10.99		KSM170	KGA170	KTA170	THR170
TOLEDO II							
 1.4 16V, 1.6, 1.6 16V Excl.  , 	(1M2)	04.99 - 05.06		KSM390	KGA625	KTA325	THR325
 1.8, 1.8T, 2.3 V5+1.9TDi 90/110 Excl. 1.8 Turbo,  ,  , cambio aut.							
 2.3+1.9TDi 90/100, 1.9TDi 150 Excl. 1.8 Turbo,  , 							
TOLEDO III							
 excl. 	(5P2)	04.04 - 05.09	5B 5A		KGA551 KGA552	KTA551 KTA552	
TOLEDO IV							
 1.0TSi, 1.2, 1.2TSi	(KG3)	07.12 - 04.19			KGA640	KTA640	
 1.4TSi, 1.4TDi, 1.6TDi							

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	--	--	--	--

SKODA

FABIA

1.0, 1.2, 1.4 excl.	(6Y2, 6Y3, 6Y5)	12.99 - 03.08		KSM448	KGA515	KTA515	THR515
2.0, 1.9SDi, 1.9TDi excl.				KSM449			
1.2, 1.4, 1.6 excl. RS	(542)	12.06 - 12.14		KSM458			
1.4TDi, 1.9TDi excl. RS				KSM459			
excl.	(NJ3)	08.14 -			KGA674	KTA676	
excl.							

OCTAVIA

1.4, 1.6 excl. RS 1.8 Turbo, 4X4	(1U2)	10.96 - 12.10		KSM448	KGA515	KTA515	THR515
1.8, 1.8T, 2.0, 1.9SDi, 1.9TDi 90/110 excl. RS 1.8 Turbo, 4X4				KSM449			
4WD 1.8, 1.8T	(1U5)	07.98 - 12.10					
4WD 2.3 V5, 2.8 V6, 1.9TDi							
1.4, 1.6, 1.2TSi excl. B	(1Z3, 1Z5)	06.04 - 06.13		5B	KGA551	KTA551	
				5A			
1.6TDi, 1.4TSi, 1.8TSi, 2.0FSi, 1.9TDi, 2.0TDi excl.				5B			
				5A			
Ponte torcente 1.0TSi, 1.2TSi excl. RS	(5E3, 5E5)	11.12 -			KGA661	KTA661	
Ponte torcente 1.4TSi, 1.5TSi excl. RS							
Ponte torcente 1.6TDi, 2.0TDi(150hp) excl. RS							
Ponte torcente 1.0TSi, 1.2TSi excl. RS							
Ponte torcente 1.4TSi, 1.5TSi excl. RS							
Ponte torcente 1.6TDi, 2.0TDi(150hp) excl. RS							
Assale Multilink excl. RS							

SUPERB

	(3T4)	03.08 - 05.15	5A		KGA552	KTA552	
	(3T5)	10.09 - 05.15	5A				
Assale multilink excl. ,	(3V3, 3V5)	03.15 -	5A		KGA662	KTA700	


MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	---	---	---	---

SMART

CABRIO

 KSM: solo molle posteriori	(450)	03.00 - 01.04		KSM524	KGA501	KTA501	
				KSM525	KGA457	KTA457	

CITY-COUPÉ

 (Ch. XH, YH) KSM: solo molle posteriori	(MC01)	07.98 - 01.04		KSM524	KGA501	KTA501	
 (Ch. 1H)				KSM525	KGA457	KTA457	





CROSSBLADE

				KSM524	KGA501	KTA501	
 KSM: solo molle posteriori	(450)	06.02 - 12.03		KSM525	KGA457	KTA457	

FORFOUR

 1.0, 1.1, 1.3, 1.5	(454)	04.04 - 06.06			KGA698	KTA698	
 1.5dCi							
	(453)	07.14 -		KSM687	KGA668	KTA668	

FORTWO





	(450)	01.04 - 12.06		KSM524	KGA501	KTA501	
				KSM525	KGA457	KTA457	
	(451)	01.07 -					
	(453)	07.14 -			KGA668	KTA668	

ROADSTER

	(452)	04.03 - 11.05		KSM524	KGA501	KTA501	
				KSM525	KGA457	KTA457	

SUZUKI

BALENO

 ,  ,  1.3 (SY41_) excl. 	(EG)	07.95 - 05.02			KGA532	KTA532	
---	------	---------------	--	--	--------	--------	--

SWIFT III

 escl. 1.3 DSL	(RS413)	05.05 -		KSM585	KGA596	KTA596	
 1.3 DSL	(RS415)						



SWIFT IV

 1.2, 1.3 DDiS excl. 4WD	(FZ, NZ)	10.10 -					
--	----------	---------	--	--	--	--	--

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	---	---	---	---

TOYOTA





























AYGO

 1.0i	(B1)	07.05 - 05.14		KSM629	KGA590	KTA590	
 1.4D				KSM659			






AYGO II

	(B4)	05.14 -			KGA590	KTA590	
--	------	---------	--	--	--------	--------	--

COROLLA

 ,  ,  1.3, 1.6  ,  ,  2.0 D	(A/EE100/1) (CE100)	05.92 - 04.97					
 ,  ,  1.3, 1.4, 1.6  ,  ,  1.8, 2.0 D	(A/EE110/1) (AE115, CE11_)	04.97 - 01.02			KGA535	KTA535	
 ,  1.4, 1.6, 1.9 D	(ZZE11_)	10.99 - 09.01					
 ,  1.4, 1.6 excl. Auto.  ,  2.0 TD	(ZZE120/1) (CDE120)	11.01 - 02.07					
 1.6 Auto.	(ZZE121)	01.02 - 12.06					
 Wagon 1.3, 2.0 D  Wagon 1.6	(C/EE100/1) (AE101)	05.92 - 04.97			KGA535	KTA535	
 Wagon 1.3, 1.4, 1.6  Wagon 1.8, 2.0 D	(A/EE110/1) (AE115, CE11_)	04.97 - 09.01					
 1.4, 1.6  2.0 TD	(ZZE120/1) (CDE120)	10.01 - 05.04					
 excl. 	(E18_)	06.13 -					
	(E210)	10.18 -					








YARIS

 1.0, 1.3  1.4 TD	(S/NCP10) (NLP10)	04.99 - 09.05		KSM438	KGA518	KTA518	THR518
1.5 TS	(NCP13)	01.01 - 09.05					
 1.0, 1.3	(SCP9, NSP9, KSP9, NCP9, ZSP9)	08.05 - 12.12		KSM615	KGA597	KTA597	
 1.8, 1.4D4-D				KSM660			
	(NLP13, NSP13, NCP13, KSP13)	12.10 -			KGA597	KTA597	


MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	---	---	---	---

VOLKSWAGEN

BEETLE

Ponte torcente  1.2TSi	(5C1)	04.11 - 07.19	5B		KGA551	KTA551	
			5A		KGA552	KTA552	
Ponte torcente  1.4TSi, 1.6TDi, 2.5			5B		KGA551	KTA551	
			5A		KGA552	KTA552	
Ponte torcente  2.0TDi			5B		KGA551	KTA551	
			5A		KGA552	KTA552	
Multilink  2.0TSi			5B		KGA551	KTA551	
			5A		KGA552	KTA552	
Multilink  1.2TSi	(5C7, 5C8)	04.11 - 07.19	5B		KGA551	KTA551	
			5A		KGA552	KTA552	
Multilink  1.4TSi, 1.6TDi,			5B		KGA551	KTA551	
			5A		KGA552	KTA552	
Multilink  2.0TSi, 2.0TDi			5B		KGA551	KTA551	
			5A		KGA552	KTA552	












BORA

  1.4, 1.6 excl.  , 4Motion	(1J2)	10.98 - 05.05		KSM390			
  1.8, 2.0, 1.9D excl.  , 4Motion				KSM391	KGA325	KTA325	THR325
  1.9TDi, 2.3 V5 excl. 4Motion							
 4motion 4X4 							

GOLF II

 1.1, 1.3, 1.6 excl. 1.8 GTi 16V, 1.8 G60, Syncro 4X4, Country	(19E, 1G1)	09.83 - 08.91		KSM 06			
 1.6D, 1.6GTD, 1.8 16V, 1.8 GTi excl. Syncro 4X4, Country		01.90 - 08.91		KSM 39	KGA170	KTA170	THR170
 1.8 Syncro 4X4 excl. Country		02.86 - 12.89					
 1.8 Syncro 4X4 excl. Country, Rallye		01.90 - 08.91					

GOLF III

 1.4 excl. Syncro 4X4	(1H1)	09.91 - 08.94		KSM170	KGA170	KTA170	THR170	
 1.6, 1.8, 1.8 GT 2.0, 1.9 TD excl. Syncro 4X4		09.94 - 08.97		KSM176	KGA170	KTA170	THR170	
 1.9 TD/TDi excl. Syncro 4X4		09.91 - 08.97			KGA170	KTA170	THR170	
 1.8, 2.0 Syncro 4X4		01.93 - 08.97						
 2.0 GTi, 2.0 GTi 16V excl. Syncro		09.91 - 08.97			KSM170	KGA170	KTA170	THR170
 2.8 VR6 excl. Syncro		09.91 - 08.97			KSM170	KGA170	KTA170	THR170
 excl. 2.0, 2.8 VR6	(1H5)	09.93 - 08.94						
 excl. 2.0, 2.8 VR6		09.94 - 04.99						
 2.0		09.93 - 04.99						
 1.6, 1.8, 2.0	(1E7)	09.93 - 08.94		KSM170	KGA170	KTA170	THR170	
 1.9 TDi		09.94 - 05.98			KGA170	KTA170	THR170	

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	--	--	--	--

GOLF IV

1.4, 1.6 excl. 4motion 4X4, 16"	(1J1)	08.97 - 06.05		KSM351	KGA325	KTA325	THR325
1.8, 2.0, 1.9 SDi, 1.9 TDi cambio man. excl. 4motion 4X4, 16"				KSM352	KGA325	KTA325	THR325
GTi, 2.3 V5, 1.9TDi cambio aut. excl. 4motion 4X4, 16"				KSM353	KGA325	KTA325	THR325
2.8 V6 excl. 4motion 4X4, 16"					KGA325	KTA325	THR325
4motion 4X4 excl. 16"		07.98 - 10.03		KSM661	KGA468	KTA468	
1.4, 1.6 excl. 4motion 4X4, 16"	(1J5)	05.99 - 06.06			KGA325	KTA325	THR325
1.8, 2.0, 1.9 SDi, 1.9 TDi cambio man. excl. 4motion 4X4, 16"					KGA325	KTA325	THR325
GTi, 2.3 V5, 1.9TDi cambio aut. excl. 4motion 4X4, 16"					KGA325	KTA325	THR325

GOLF V



















1.4, 1.6 excl. 4Motion, R32	(1K1)	10.03 - 12.08	5B	KSM558	KGA551	KTA551	THR551
			5A		KGA552	KTA552	THR552
1.4TSi, 2.0FSi, 1.6TDi, 1.9TDi, 2.0SDi excl. 4Motion, R32		01.05 - 12.08	5B	KSM559	KGA551	KTA551	THR551
2.0 Gti, 2.0 TDi excl. 4Motion, R32			5A		KGA552	KTA552	THR552
1.4, 1.6 excl.	(1K5)	06.07 - 07.09	5B		KGA551	KTA551	THR551
			5A		KGA552	KTA552	THR552
1.9TDi, 1.4TSi excl.			5B		KGA551	KTA551	THR551
2.0 TDi excl.			5A		KGA552	KTA552	THR552
			5B		KGA551	KTA551	THR551
			5A		KGA552	KTA552	THR552

GOLF VI


1.2TSi, 1.4, 1.6, 1.6BiFuel, 1.4TSi (122hp), 1.6TDi Cambio man. excl. 4Motion	(5K1, AJ5)	10.08 - 11.12	5B	KSM677	KGA551	KTA551	THR551	
			5A		KGA552	KTA552	THR552	
1.4TSi (160hp), 1.8TSi, 1.6TDi cambio aut., 2.0TDi excl. 4Motion			KSM678	5B	KGA551	KTA551	THR551	
				5A	KGA552	KTA552	THR552	
2.0TSi, GTi, 2.0GTD excl. 4Motion			KSM708	5B	KGA551	KTA551	THR551	
				5A	KGA552	KTA552	THR552	
1.2TSi Cambio man., 1.4, 1.6, 1.4TSi (160hp), 1.6TDi excl. 4Motion				5B		KGA551	KTA551	THR551
				5A		KGA552	KTA552	THR552
1.2TSi Cambio aut., 1.4TSi (122hp) excl. 4Motion				5B		KGA551	KTA551	THR551
				5A		KGA552	KTA552	THR552
2.0TDi excl. 4Motion				5B		KGA551	KTA551	THR551
				5A		KGA552	KTA552	THR552
1.2TSi excl. 4Motion				5B		KGA551	KTA551	THR551
				5A		KGA552	KTA552	THR552
1.4TSi, 1.6TDi excl. 4Motion				5B		KGA551	KTA551	THR551
				5A		KGA552	KTA552	THR552
2.0TDi excl. 4Motion		5B		KGA551	KTA551	THR551		
		5A		KGA552	KTA552	THR552		

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	---	---	---	---

GOLF VIII

Ponte torcente  1.0TSi, 1.2TSi excl. 4Motion, R,  , eGOLF, GTE	(5G1)	11.12 -	5B	KSM706	KGA661	KTA661			
			5A		KGA662	KTA700			
Ponte torcente  1.6TDi excl. 4Motion, R,  , eGOLF, GTE					5B	KSM704	KGA661	KTA661	
			5A	KGA662	KTA700				
Multilink  1.4TSi, 1.5TSi excl. 4Motion, R,  , eGOLF, GTE					5B	KSM716	KGA661	KTA661	
			5A	KGA662	KTA700				
Multilink  2.0 Tdi (150hp) excl. 4Motion, R,  , eGOLF, GTE					5B	KSM716	KGA661	KTA661	
			5A	KGA662	KTA700				
Multilink  GTi, GTD excl. 4Motion, R,  , eGOLF, GTE					5B	KSM716	KGA661	KTA661	
			5A	KGA662	KTA700				
Ponte torcente  1.0TSi, 1.2TSi excl. 4Motion, R,  , eGOLF, GTE			(BA5)	11.12 -	5B	KSM716	KGA661	KTA661	
					5A		KGA662	KTA700	
Ponte torcente  1.6TDi excl. 4Motion, R,  , eGOLF, GTE					5B	KSM716	KGA661	KTA661	
	5A	KGA662			KTA700				
Multilink  1.4TSi, 1.5TSi excl. 4Motion, R,  , eGOLF, GTE					5B	KSM716	KGA661	KTA661	
	5A	KGA662			KTA700				
Multilink  2.0 Tdi (150hp) excl. 4Motion, R,  , eGOLF, GTE					5B	KSM716	KGA661	KTA661	
	5A	KGA662			KTA700				




















LUPO

 excl. TDi, SDi	(6X1, 6E1)	09.98 - 07.05	40C	KSM361	KGA419	KTA419	
---	------------	---------------	-----	--------	--------	--------	--

NEW BEETLE

	(9C1, 1C1)	01.98 - 09.10		KSM405	KGA325	KTA325	THR325
	(1Y7)	01.03 - 10.10					

PASSAT III

 excl. 2.8 VR6, Syncro 4X4, 	(3A2, 35I)	02.88 - 07.91	40D	KSM113	KGA113	KTA113	
 excl. 2.8 VR6, Syncro, 	(3A5, 35I)						
 excl. 2.8 VR6, Syncro 4X4,  > Ch. 026435	(3A2, 3A5, 35I)	08.91 - 05.97	40D	KSM113	KGA113	KTA113	
 excl. 2.8 VR6, Syncro 4X4,  > Ch. 026435							
 excl. TDi, 2.8 VR6, Syncro 4X4,  Ch. 026436 >	(3A2, 3A5, 35I)	08.91 - 05.97	40F	KSM114	KGA263	KTA263	
 TDi excl. 2.8 VR6, Syncro 4X4,  Ch. 026436 >							
 excl. Tdi, 2.8 VR6, Syncro 4X4,  Ch. 026436 >							
 TDi excl. 2.8 VR6, Syncro 4X4,  Ch. 026436 >							
 ,  2.8 VR6 excl. 	(3A2, 3A5, 35I)	08.91 - 08.96					

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	--	--	--	--

PASSAT IV

1.6, 1.8, 1.8 Turbo, 2.0, 1.9 TDI excl. Syncro 4X4 > Ch. 3B-YE121221	(3B2)	08.96 - 09.99		KSM327	KGA420	KTA420	
TDI excl. Syncro 4X4 > Ch. 3B-YE121221				KSM344			
2.3 VR5, 2.8 V6, 2.5 V6 excl. Syncro 4X4 > Ch. 3B-YE121221				KSM417			
1.6, 1.8, 1.8T Cambion man., 2.0, 1.9TDi Cambio man. Excl. Syncro 4X4 Ch. 3B-YE121222 >	(3B3)	09.99 - 12.05		KSM511	KGA599	KTA599	
1.8T e 1.9TDi Cambion aut., 2.3 V5 Cambion man. Excl. Syncro 4X4 Ch. 3B-YE121222 >				KSM512			
2.3 V5 Cambio aut., 2.8 V6, 2.5 V6 TDI Excl. Syncro 4X4 Ch. 3B-YE121222 >				KSM513			
1.6, 1.8, 2.0, 1.8 Turbo, 1.9 TDI, 2.3 VR5 Syncro, 4motion 4X4 Ch. 3B-YE121222 >	(3B3)	09.99 - 12.05			KGA598	KTA598	
2.5 V6 TDI, 2.8 V6 Syncro, 4motion 4X4 Ch. 3B-YE121222 >							
1.6, 1.8, 1.8 Turbo, 2.0, 1.9 TDI excl. Syncro 4X4 > Ch. 3B-YE121221	(3B5)	08.97 - 09.99		KSM364	KGA420	KTA420	
TDI excl. Syncro 4X4 > Ch. 3B-YE121221				KSM365			
2.3 VR5, 2.8 V6, 2.5 V6 excl. Syncro 4X4 > Ch. 3B-YE121221				KSM408			
1.6, 1.8, 1.8T Cambion man., 2.0, 1.9TDi Cambio man. Excl. Syncro 4X4 Ch. 3B-YE121222 >	(3B6)	09.99 - 12.05		KSM514	KGA599	KTA599	
1.8T e 1.9TDi Cambion aut., 2.3 V5 Cambion man. Excl. Syncro 4X4 Ch. 3B-YE121222 >				KSM515			
2.3 V5 Cambio aut., 2.8 V6, 2.5 V6 TDI Excl. Syncro 4X4 Ch. 3B-YE121222 >				KSM516			
1.6, 1.8, 2.0, 1.8 Turbo, 1.9 TDI, 2.3 VR5 Syncro, 4motion 4X4 Ch. 3B-YE121222 >	(3B6)	09.99 - 12.05			KGA598	KTA598	
2.5 V6 TDI, 2.8 V6 Syncro, 4motion 4X4 Ch. 3B-YE121222 >							

PASSAT V

excl.	(3C2)	03.05 - 08.10		KSM625	KGA621	KTA621	
excl. 3.6 R36 4Motion,				KSM626			

PASSAT CC

excl.	(357)	06.08 - 01.12			KGA621	KTA621	
-------	-------	---------------	--	--	--------	--------	--

PASSAT VI

excl. , 4Motion	(362, 365)	08.10 - 12.14			KGA621	KTA621	
excl. , 4Motion							
Alltrack excl.	(365)	01.12 - 12.14					

POLO I / II

excl. 1.3 G40	(86, 86C, 80)	03.75 - 08.94			KSM179	KGA179	KTA179	
---------------	---------------	---------------	--	--	--------	--------	--------	--

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	---	---	---	---




POLO III

 excl. 1.6 16V GTI	(6N1, 6N2)	09.94 - 10.99		KSM262	KGA262	KTA262	
 1.6 16V GTI		11.99 - 11.01		KSM429			
 Classic, Flight	(6KV2)	09.94 - 10.99					
 Classic, Flight		11.99 - 09.01					
 Variant	(6KV5)	04.97 - 09.01					

POLO IV

 1.2, 1.4 16V, 1.4 FSI	(9N)	10.01 - 11.09		KSM517	KGA515	KTA515	THR515
 1.4 TDI, 1.9 SDI, 1.9 TDI				KSM518			

POLO V

 1.0MPI, 1.2, 1.4, 1.0TSi, 1.2TSi Cambio Man. excl. 2.0 R WRC	(6R)	03.09 - 07.17		KSM696	KGA674	KTA676	
 1.0TSi e 1.2TSi Cambio aut., 1.2TDI, 1.4TDI, 1.6TDI excl. 2.0 R WRC							
 1.4TSi Blue GT, 1.4TSi GTi, 1.8TSi GTi excl. 2.0 R WRC				KSM702			

POLO VI

 1.0 (65-75hp), 1.0MPi (80hp)	AW	07.17 -			KGA674	KGA676	
 1.0TSi				KSM722			
 1.5TSi DSG, 1.6TDi							
 2.0GTi DSG		11.17 -					




SCIROCCO

 1.4TSi(122hp)	(137, 138)	09.08 - 11.17	5B		KGA551	KTA551	THR551
			5A		KGA552	KTA552	THR552
 1.4TSi(160hp), 2.0TSi, 2.0TDi			5B		KGA551	KTA551	THR551
			5A		KGA552	KTA552	THR552







MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
--------------	-------------	-------------	------	---	---	---	---

VOLVO

400 SERIES

   440, 460, 480 1.7 Turbo  480 ES excl. B18E eng. > Ch. 520381 excl. TD	(445, 464)	08.87 - 12.96 04.86 - 12.96		KSM171	KGA 47	KTA 47	
   440, 460, 480 1.7 Turbo  480 ES excl. B18E eng. > Ch. 520381							


850

 > Ch. 1744999 excl.   , 2.3 T5	(LS)	06.91 - 12.96		KSM264	KGA187	KTA187	
 > Ch. 1744999 excl.   2.3 T5	(LW)		KSM187				



C70 II

 2.4, 2.4i, T5	(542)	03.06 - 06.13					
 2.0D, D3, D4, D5							




S40 / V40

 excl.  	(VS, VW)	05.95 - 05.99		KSM130	KGA130	KTA130	
 excl.   , T4		06.99 - 04.00		KSM450	KGA520	KTA520	
 excl.   ,  ,  , 2.0 T4		04.00 - 12.03		KSM451	KGA521	KTA521	




S40 II / V50

 S40  V50 1.6 excl. 4X4	(544, 545)	01.04 - 12.12					
 S40  V50 excl. 1.6, 4X4		04.04 - 12.12					



S60


































 excl. AWD,  , 		11.00 - 04.10		KSM461			
--	--	---------------	--	--------	--	--	--

S60 II

 T2, T3, T4, T4F, T5, 2.0T, 1.6D, 1.6 DRIVE, D2 excl. 	(134)	04.10 -					
 D3, D4, D5 excl. 							

S70

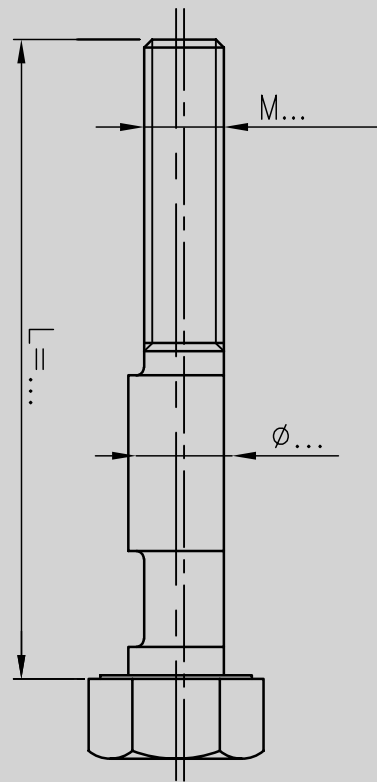
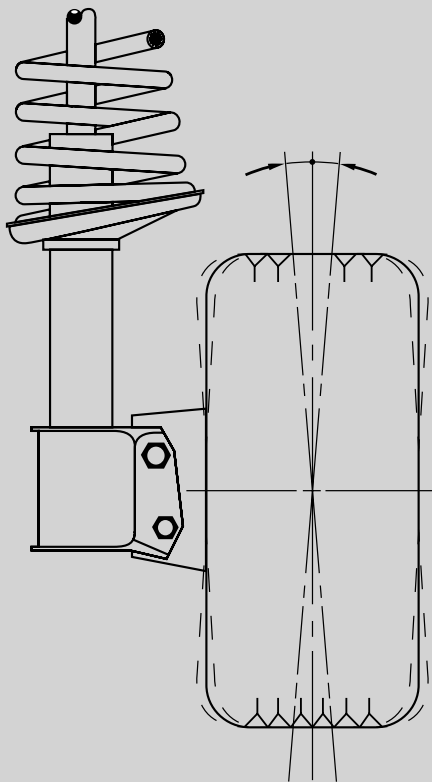
 S70 excl. 2.3 T5, 	(874) (872)	01.97 - 08.00 01.97 - 08.00		KSM264	KGA264	KTA264	
---	----------------	--------------------------------	--	--------	--------	--------	--

MOD. / MODEL	TIPO / TYPE	ANNO / YEAR	NOTE				
S80							
 excl.  , 	(184)	05.98 - 07.06		KSM406			
S80 II							
 2.5T, 2.5FT, 3.2, 2.4D, D3-D4-D5 excl.  , 	(124)	03.06 -					
 2.0T, T4, T4F, T5, 1.6D, 2.0TDi D2 excl.  , 							
 3.2 AWD D5, AWD T6 AW excl.  , 							
V40							
 T2 GTDi, T4 GTDi, T4 GTDi, T4, T5, D2, D3, D4	(525, 526)	03.12 -					
V60							
 T2, T3, T4, T4F, 2.0T, 1.6D, 1.6 DRIVE, D2 excl.  , 	(155, 157)	04.10 -					
 D3, D4, D5 excl.  , 							
V70							
 V70 excl.  , 2.3 T5, AWD, COMBI, CROSSCOUNTRY	(875, 876)	01.97 - 02.00		KSM187	KGA264	KTA264	
 V70 excl. AWD,  ,  , 	(285)	11.99 - 12.08		KSM453	KGA522	KTA522	
KSM453: togliere la protezione in gomma dai molloni originali e rimontarla nelle nuove molle nella stessa posizione. Montare le molle posteriori con il passo variabile verso il basso.							
V70 III							
 2.0T T4-T5, 1.6D, 1.6 DRIVE, 2.0D D2 excl. 4x4, 	(135)	08.07 -					
 2.5T, 2.5FT, 3.2, 2.4D D3-D5 excl. 4x4, 							

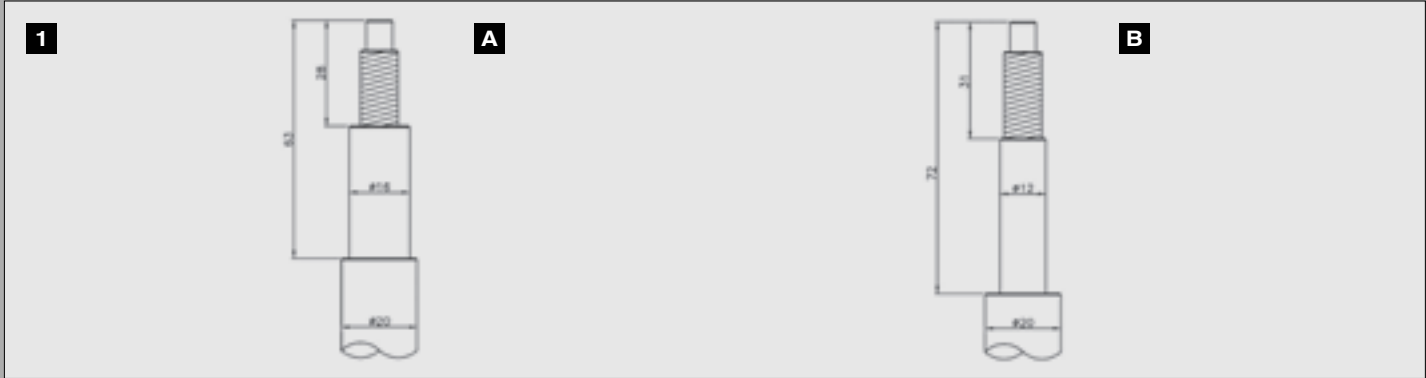
KIT REGOLAZIONE ANGOLO DI CAMPANATURA KIT CAMBER REGULATION

Bullone per la regolazione della campanatura, consigliato per modificare le geometrie esistenti o per il ripristino degli angoli originali.
Bolts for the regulation on the camber, suggested to modify the current geometrics or the restore of the original angles.

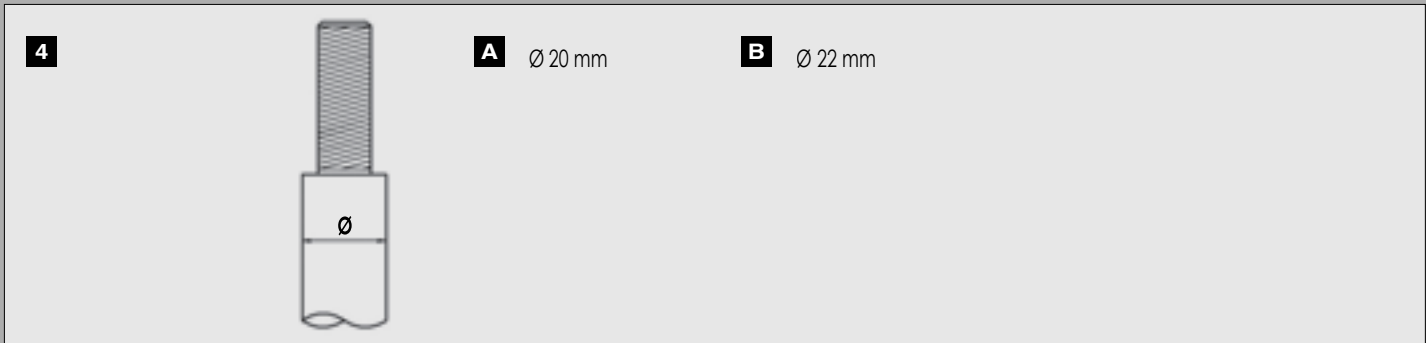
- Riduce l'usura dei pneumatici
Reduce the wear and tear on tyres
- Migliora il comfort del veicolo
Improve the confort of the vehicle
- Aumenta la tenuta di strada
Improve the road - holding




CODICE KIT / KIT CODE	MISURE / MEASURES
X34	Ø 16x75 L
X35	Ø 12x70 L
X36	Ø 12x65 L
X37	Ø 12x80 L
X41	Ø 12x120 L




- 2**
- Ⓘ Il cuscinetto a rulli originale deve essere sostituito con un cuscinetto a sfere rif. 142040.
 - Ⓒ The original needle-bearing has to be replaced by bearing Nr. 142040.
 - Ⓕ Le roulement à aiguilles d'origine doit être remplacé par un roulement à billes réf. 142040.
 - Ⓓ Beim Einsatz von Federbeinen, muß das vorhandene Naddellager am Federbein durch ein Kugellager Nr. 142040 ersetzt werden.
 - Ⓔ El rodamiento de agujas debe sustituirse por el rodamiento n° 142040.
 - Ⓖ O rolamento de agulhas original tem que ser substituído por um rolamento ref. 142040.



6



A X = 264 mm
B X = 250 mm
C X = 271 mm



D Y = 157 mm
E Y = 181 mm

7 A

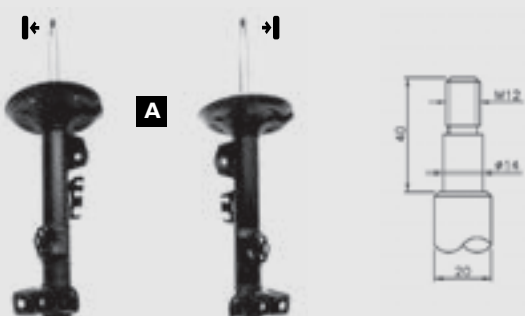
- Ⓘ Installare su montante Mac-Pherson di diametro esterno 45 mm.
- Ⓞ Fits vehicles with outside strut diameter of 45 mm.
- ⓕ Pour une jamb dont le diamètre extérieur est de 45 mm.
- ⓓ Bei einem äusseren federbeindurchmesser von 45 mm. verwenden.
- ⓔ Para vehículos con diámetro exterior de columna de 45 mm.
- Ⓟ Para uma escora cujo diâmetro exterior é de 45 mm.

7 B

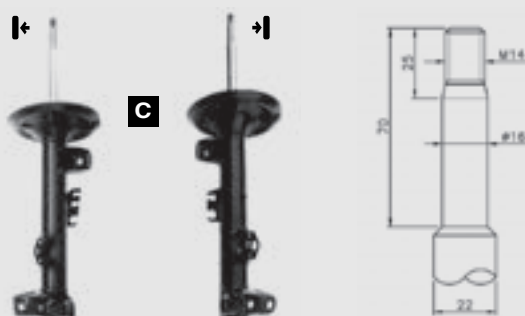
- Ⓘ Installare su montante Mac-Pherson di diametro esterno 51 mm.
- Ⓞ Fits vehicles with outside strut diameter of 51 mm.
- ⓕ Pour une jamb dont le diamètre extérieur est de 51 mm.
- ⓓ Bei einem äusseren federbeindurchmesser von 51 mm. verwenden.
- ⓔ Para vehículos con diámetro exterior de columna de 51 mm.
- Ⓟ Para uma escora cujo diâmetro exterior é de 51 mm.

8

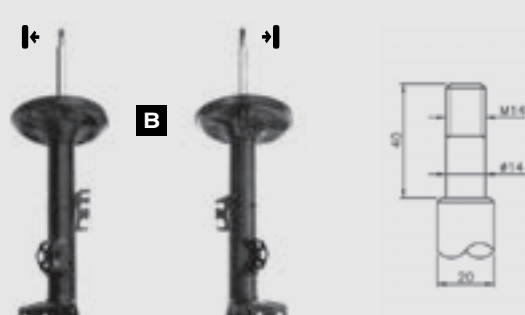
A



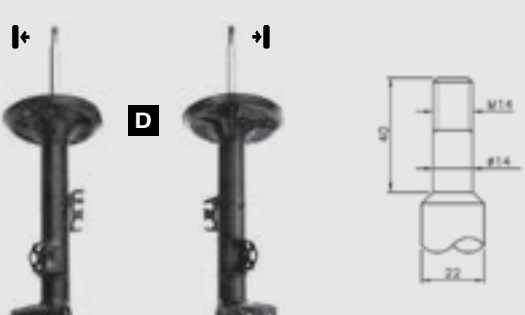
C



B

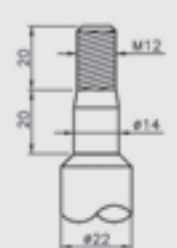


D

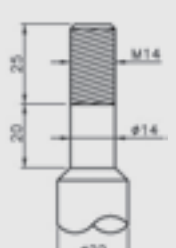


9

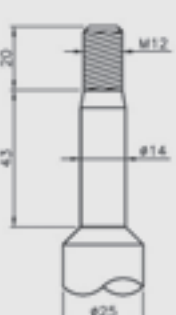
A



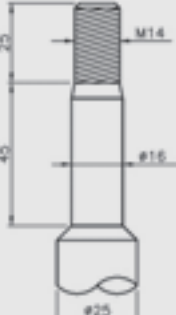
B



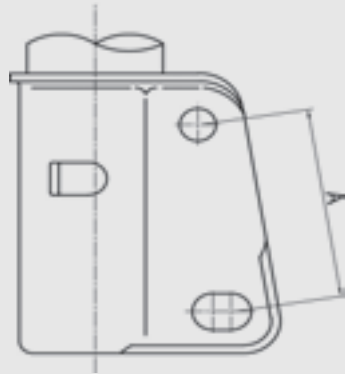
C



D



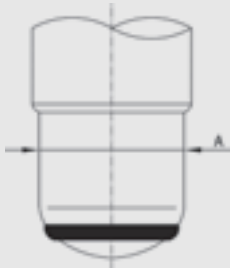
10



A A = 65 mm

B A = 82 mm

11

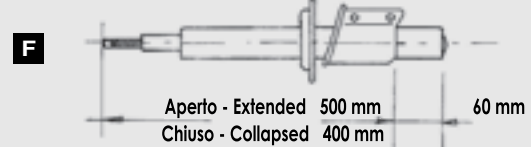
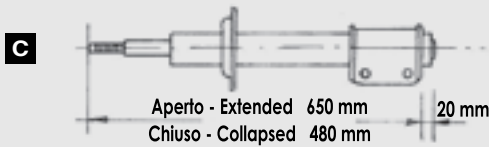
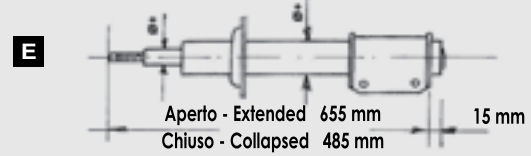
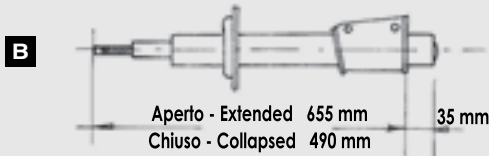
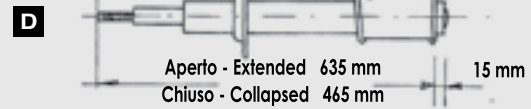
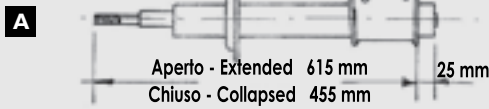


A
A = 51 mm

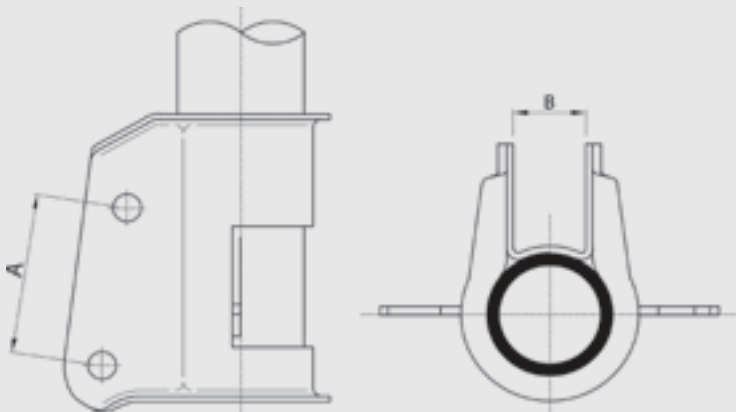
B
A = 47 mm

VERIFICARE DIAMETRO MOZZO ORIGINALE CHECK THE ORIGINAL HUB DIAMETER

12




13



A
A = 58 mm
B = 25 mm

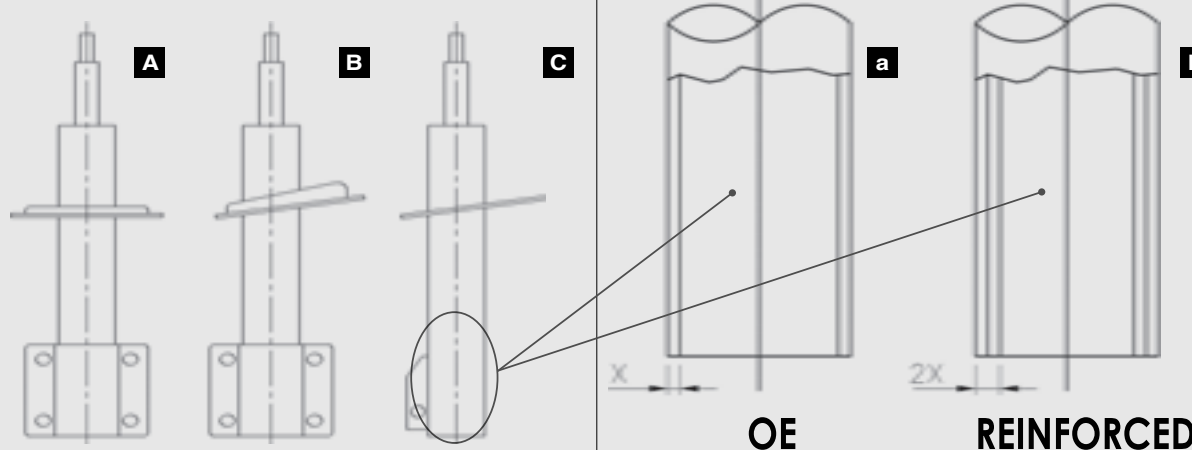
B
A = 72 mm
B = 35 mm

14



A	B	C	D	E	F	G
A = 10 mm.	A = 16 mm.	A = 10 mm.	A = 16 mm.	A = 16 mm.	A = 16 mm.	A = 16 mm.
B = 16 mm.	B = 10 mm.	B = 16 mm.	B = 16 mm.	B = 16 mm.	B = 16 mm.	B = 16 mm.
La = 570 mm.	La = 535 mm.	La = 590 mm.	La = 490 mm.	La = 470 mm.	La = 465 mm.	La = 455 mm.
Lc = 360 mm.	Lc = 342 mm.	Lc = 367 mm.	Lc = 320 mm.	Lc = 300 mm.	Lc = 300 mm.	Lc = 315 mm.


15




OE **REINFORCED**

- 16**
- ⓘ Ammortizzatore allungato da installare esclusivamente con la molla di carico 10883 o 10884
 - Ⓔ Extended shock absorber to install exclusively with auxiliary spring 10883 or 10884
 - Ⓕ Ammortiseur allongé de installer avec ressort compensateurs 10883 ou 10884
 - Ⓖ Verlängertstoßdämpfer installations ausschließlich mit nivellierungsfedersätze 10883 oder 10884
 - Ⓗ Amortiguador prolongado da instalar con la muella compesadora 10883 o 10884
 - Ⓘ Amortecedor alongado para instalar com mola de carga 10883 ou 10884

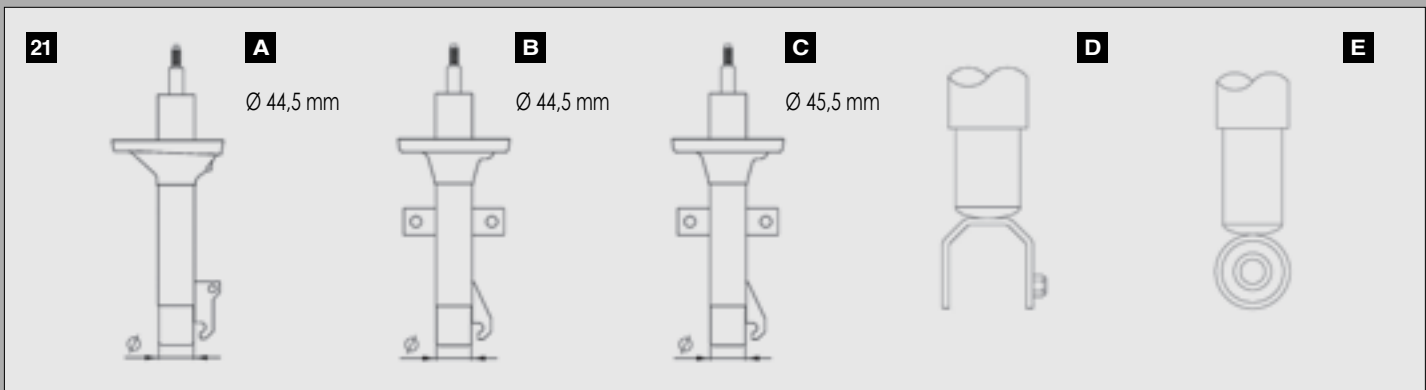
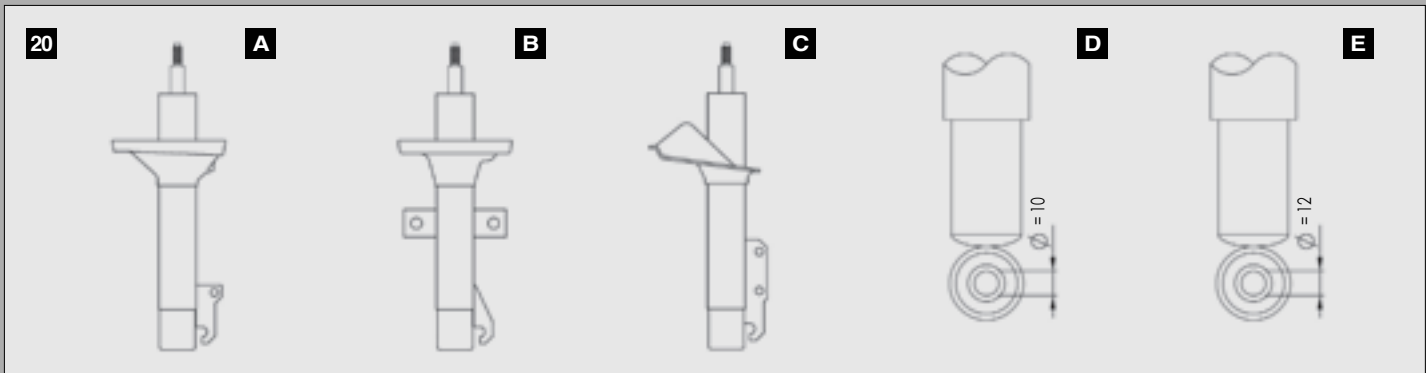
17



18



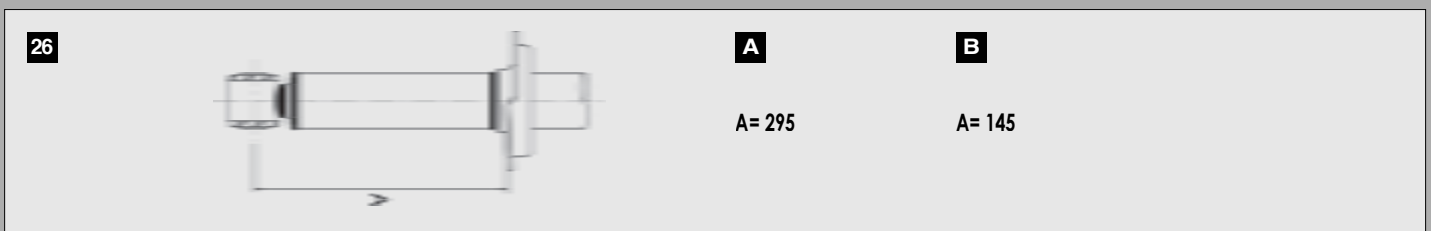
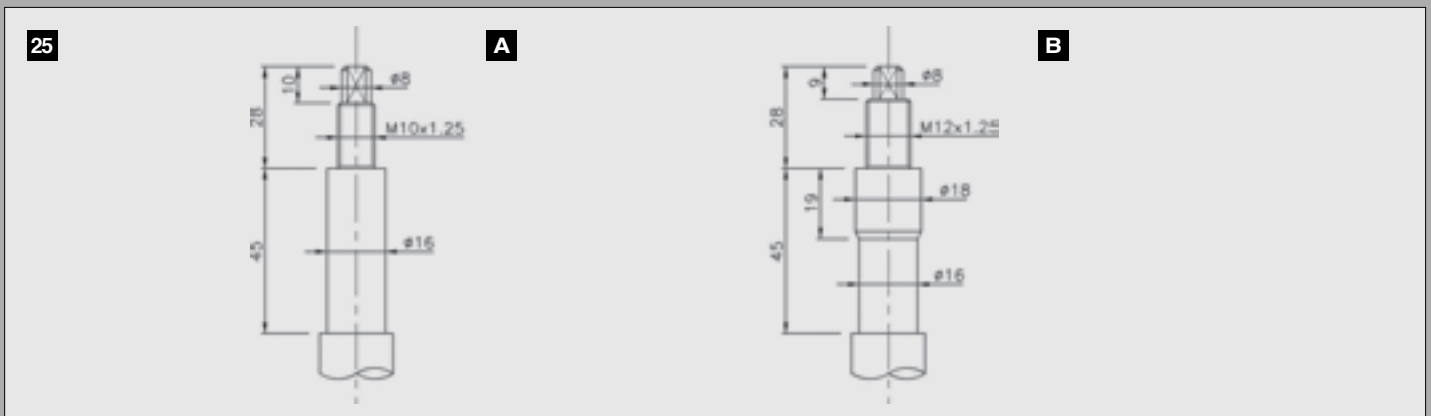
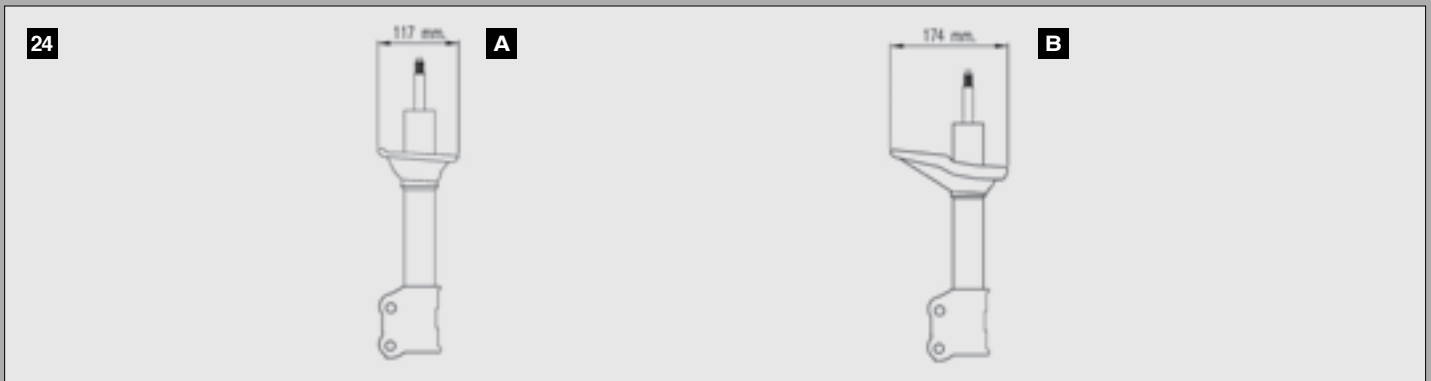
A	B	C	D
A = 12 mm.	A = 12 mm.	A = 12 mm.	A = 12 mm.
B = 12 mm.	B = 12 mm.	B = 14 mm.	B = 14 mm.
La = 380 mm.	La = 400 mm.	La = 395 mm.	La = 395 mm.
Lc = 270 mm.	Lc = 283 mm.	Lc = 280 mm.	Lc = 280 mm.



- 22**
- | | |
|--|---|
| <p>A</p> <ul style="list-style-type: none"> Ⓛ Piattello base molla rotondo Ⓞ Round spring seat ⓕ Plat de ressort rond ⓓ Rund Plattfeder ⓔ Plato de muella redondo Ⓟ Assento de mola redondo | <p>B</p> <ul style="list-style-type: none"> Ⓛ Piattello base molla ovale Ⓞ Oval spring seat ⓕ Plat de ressort oval ⓓ Oval Plattfeder ⓔ Plato de muella oval Ⓟ Assento de mola oval |
|--|---|

23

	<p>A</p> <p>A = 14 mm. B = 12 mm. La = 505 mm. Lc = 325 mm.</p>	<p>B</p> <p>A = 14 mm. B = 12 mm. La = 550 mm. Lc = 350 mm.</p>	<p>C</p> <p>A = 14 mm. B = 12 mm. La = 610 mm. Lc = 370 mm.</p>	<p>D</p> <p>A = 14 mm. B = 12 mm. La = 480 mm. Lc = 305 mm.</p>	<p>E</p> <p>A = 14 mm. B = 12 mm. La = 580 mm. Lc = 355 mm.</p>	<p>F</p> <p>A = 14 mm. B = 12 mm. La = 635 mm. Lc = 585 mm.</p>
--	--	--	--	--	--	--



27

	A	B	C	D	E	F
A =	16 mm.	12 mm.	16 mm.	16 mm.	16 mm.	16 mm.
B =	16 mm.	12 mm.	16 mm.	16 mm.	16 mm.	16 mm.
La =	504 mm.	576 mm.	416 mm.	442 mm.	587 mm.	407 mm.
Lc =	312 mm.	352 mm.	266 mm.	280 mm.	355 mm.	325 mm.

- 28**
- ① 4 Ammortizzatori posteriori
 - Ⓒ 4 Rear shock absorbers
 - Ⓓ 4 Ammortisseurs postérieur
 - Ⓔ 4 Hintere Stoßdämpfer
 - Ⓕ 4 Amortiguadores trasero
 - Ⓖ 4 Amortecedores traseira

29



A

A = 46 mm

B

A = 40 mm

30



A

A = 12 mm.
B = 12 mm.
La = 588 mm.
Lc = 350 mm.

B

A = 14 mm.
B = 12 mm.
La = 485 mm.
Lc = 300 mm.

C

A = 14 mm.
B = 14 mm.
La = 588 mm.
Lc = 350 mm.

D

A = 14 mm.
B = 14 mm.
La = 626 mm.
Lc = 370 mm.

31



A

X = 215 mm.
X = 244 mm.

B

$\phi = 93$ mm.
 $\phi = 103$ mm.



32



A

$\phi = 152$ mm.

B

$\phi = 170$ mm.

33



A

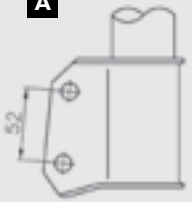
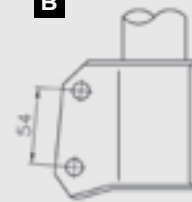
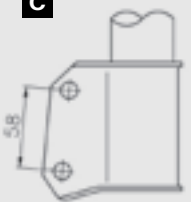
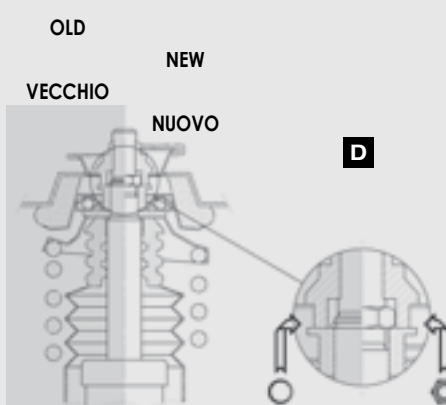
A = 10 mm.

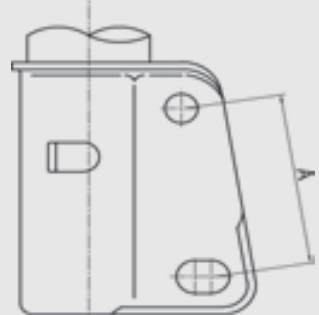
B



A = 15 mm.

- | | |
|---|---|
| <p>34 A</p> <ul style="list-style-type: none"> Ⓘ Ammortizzatore senza fissaggio della barra stabilizzatrice. Ⓖ Shock without drop link bracket. Ⓕ Amortisseur sans fixation de la barre stabilisatrice. Ⓓ Stoßdämpfer ohne Stabilisierungsstangenhalterung. Ⓔ Amortiguador sin fijación de barra estabilizadora. Ⓟ Amortecedor sem fixação de barra estabilizadora. | <p>B</p> <ul style="list-style-type: none"> Ⓘ Ammortizzatore con fissaggio della barra stabilizzatrice. Ⓖ Shock with drop link bracket. Ⓕ Amortisseur avec fixation de la barre stabilisatrice. Ⓓ Stoßdämpfer mit Stabilisierungsstangenhalterung. Ⓔ Amortiguador con fijación de barra estabilizadora. Ⓟ Amortecedor com fixação de barra estabilizadora. |
|---|---|

<p>35</p>  <p>A</p> <p>O.E.:</p> <ul style="list-style-type: none"> 77 00 732 743 77 00 732 744 77 00 807 874 77 02 145 522 77 02 145 523 	<p>B</p> <p>O.E.:</p> <ul style="list-style-type: none"> 77 00 786 597 77 00 807 873 77 02 150 468
---	--

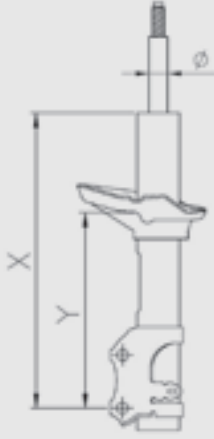
<p>36 A</p>  <p>O.E.:</p> <ul style="list-style-type: none"> 77 00 808 490 77 00 816 045 77 00 823 130 77 00 828 680 77 00 838 084 	<p>B</p>  <p>O.E.:</p> <ul style="list-style-type: none"> 77 00 808 491 / 77 00 808 492 77 00 816 046 / 77 00 823 129 77 00 823 131 / 77 00 828 681 77 00 828 682 / 77 00 828 683 77 00 828 684 / 77 00 838 083 77 00 838 085 / 77 00 838 086 77 00 838 087 / 77 00 838 088 	<p>C</p>  <p>O.E.:</p> <ul style="list-style-type: none"> 77 00 423 726 77 00 423 727 77 00 423 729 	<p>D</p>  <p>OLD NEW VECCHIO NUOVO</p>
---	---	---	---

<p>37</p> 	<p>A</p> <p>A = 60 mm Body Ø47</p>	<p>B</p> <p>A = 75 mm Body Ø52</p>
--	--	--

<p>38 A</p>  <p>34 mm.</p>	<p>B</p>  <p>24 mm.</p>
---	---

- 39** ① Sospensione anteriore senza barra di torsione. ④ Vorderaufhängung ohne Torsionsstab.
 ② Front suspension without torsion bar. ⑤ Suspensión delantera sin barra de torsión.
 ③ Train avant sans barre de torsion. ⑥ Suspensão dianteira sem barra estabilizadora.

40



- A** X = 320 mm Y = 228 mm Ø = 20 mm
B X = 342 mm Y = 228 mm Ø = 22 mm
C X = 336 mm Y = 228 mm Ø = 20 mm
D X = 318 mm Y = 228 mm Ø = 22 mm
E X = 336 mm Y = 228 mm Ø = 22 mm
F X = 340 mm Y = 250 mm Ø = 22 mm

- 41** ① Se le cartucce originali sono a gas, montare l'adattatore Volvo rif. 122 94 23 sotto la cartuccia.
 ② If the original insert are gas pressurized, place Volvo spacer n° 122 94 23 underneath the insert.
 ③ Si les cartouches d'origine sont à gaz, montez l'adaptateur Volvo Réf. 122 94 23 sous la cartouche.
 ④ Wenn Original-Gasdruckeinsätze montiert sind, Volvo Adapter Nr. 122 94 23 im Federbein unter den Federbeineinsatz montieren.
 ⑤ Si los cartuchos originales son de gas presurizado, coloque el adaptador Volvo N° 122 94 23 debajo del cartucho.
 ⑥ Se as aplicações de origem forem a gás, monte o adaptador Volvo ref. 122 94 23 por baixo da aplicação.

- 42** ① Se il veicolo è munito di correttore d'assetto, sostituire la molla con una Volvo rif. 122 90 52/3/4.
 ② If the vehicle is equipped with a self levelling suspension, replace the spring by a Volvo one N° 122 90 52/3/4.
 ③ Si le véhicule est équipé d'un correcteur d'assiette, remplacez le ressort par un Volvo Réf 122 90 52/3/4.
 ④ Wenn das Fahrzeug mit automatischem Niveau-Ausgleich-System versehen ist, Originalfeder durch Volvo Feder Nr. 122 90 52/3/4 ersetzen.
 ⑤ Si el vehículo está equipado con suspensión autonivelada, sustituya el muelle por un muelle Volvo N° 122 90 52/3/4.
 ⑥ Se o veículo estiver equipado com uma suspensão autonivelável, substitua a mola por uma Volvo ref. 122 90 52/3/4.

- 43** ① Se il veicolo è munito di correttore d'assetto, sostituire la molla con una Volvo rif. 135 97 10 o 127 39 77.
 ② If the vehicle is equipped with a self levelling suspension, replace the spring by a Volvo one N° 135 97 10 or 127 39 77.
 ③ Si le véhicule est équipé d'un correcteur d'assiette, remplacez le ressort par un Volvo Réf 135 97 10 ou 127 39 77.
 ④ Wenn das Fahrzeug mit automatischem Niveau-Ausgleich-System versehen ist, Originalfeder durch Volvo Feder Nr. 135 97 10 oder 127 39 77 ersetzen.
 ⑤ Si el vehículo está equipado con suspensión autonivelada, sustituya el muelle por un muelle Volvo N° 135 97 10 ó 127 39 77.
 ⑥ Se o veículo estiver equipado com uma suspensão autonivelável, substitua a mola por uma Volvo ref. 135 97 10 ou 127 39 77.

Nel caso di giustificato reclamo riscontrato presso il ns. stabilimento, la ns. società garantisce la sostituzione gratuita del materiale fornito, riconosciuto difettoso, che copre esclusivamente il difetto dovuto alle materie prime impiegate e alle fasi di produzione.

Non saranno invece riconosciuti in garanzia danni conseguenti a:

- Applicazioni non previste nel ns. catalogo corrente
- Montaggio eseguito con attrezzature non idonee
- Errati montaggi e applicazioni di tutta la componentistica
- Non rispetto delle avvertenze informative espresse sopra
- Manomissione o rottura della valvola di ricarica del gas
- Utilizzo di altri gas oltre all'Azoto ed al Freon consentiti
- Regolazione scombinata delle tarature sia in trazione che in compressione
- Utilizzo del presente Kit in qualsiasi forma di competizione, se non espressamente da noi indicato
- Alberi rovinati da prese con la pinza o da ammaccature accidentali
- Utilizzo di pressione del gas oltre i limiti consentiti (vedere tabella corredata)
- Manomissione del tappo di chiusura dell'ammortizzatore se non da noi autorizzato
- Inoltre le contestazioni di difetto sul prodotto dovranno essere presentate esclusivamente al rivenditore autorizzato, franco spese di trasporto ed imballo, con allegato il tagliando di garanzia completo in ogni sua parte
- Il non rispetto di una o più clausole sopra elencate fa decadere automaticamente il diritto di garanzia
- In nessun caso verranno riconosciuti addebiti imputati alla ns. società oltre a quelli elencati

Per evitare qualsiasi problema di garanzia è opportuno affidarsi a personale qualificato ed attrezzato oltre che da noi informato, inoltre uno staff di tecnici competenti è sempre a disposizione telefonicamente presso la ns. sede per tutti i ragguagli e le informazioni più dettagliate e per un migliore servizio post-vendita.

Verranno prese in considerazione solo quei Kit accompagnati dalla garanzia (COMPILATA IN OGNI SUA PARTE) che si trova in ogni confezione all'atto di vendita. E QUALORA VENGA RISCOINTRATO UN DIFETTO DI LAVORAZIONE O DI MATERIALE, VERRÀ PRONTAMENTE SOSTITUITO IL PEZZO RISCOINTRATO DIFETTOSO.

In case of justified complaints that have been acknowledged in our works, we guarantee the replacement free of charge of the components supplied that have been acknowledged as faulty for defect due to the raw materials employed and workmanship.






No warranty will be provided for damages caused by:

- Applications not described in this catalogue
- Installation performed with inappropriate equipment
- Wrong mounting and application of all components
- Non-conformity with warnings provided above
- Tampering or breaking of gas recharging valve
- Use of other gases besides those admitted, i.e. Nitrogen and Freon
- Inappropriate adjustment of both bump and rebound settings
- Use of this kit in any competition form, if not clearly stated by us
- Stems damaged by pincers or accidental denting
- Use of gas pressure beyond designed limits (see enclosed table)
- Tampering of shock absorber closing cap if not authorised
- In addition, claims concerning product defects should be addressed only to the authorised dealer without charging transport and packaging costs, enclosing the guarantee coupon appropriately filled in
- Non-compliance with one or more of the above-mentioned clauses will cancel any warranty rights
- No extra costs charged to our company besides those listed will be acknowledged in any case.




In case of any warranty problems, it is advisable to apply to qualified and appropriately equipped technicians who have also been informed by us. Our own expert technicians are always available by telephone in our offices for any details and information and to ensure the best after-sales service.

Only kits provided with the warranty coupon (duly filled in) contained in every set at the time of sale will be considered. IN CASE OF ACKNOWLEDGED MATERIAL OR WORKMANSHIP DEFECTS, THE FAULTY PART WILL BE PROMPTLY REPLACED.












	Tutti i modelli	All models	Tous modèles	Alle Modelle	Todos los modelos	Todos os modelos	Alle modellen	Alle modeller	Все модели
	Berlina 4 porte	Saloon 4 doors	Berline 4 portes	Limousine 4 Türen	Berlina 4 puertas	Berlina 4 portas	Berline 4-deurs	Sedan 4 Døre	Седан 4-х дверный
	Berlina 3-5 porte	Hatchback - Fastback	Berline 3-5 portes	Limousine 3-5 Türen	Berlina 3-5 puertas	Berlina 3-5 portas	Berline 3-5 deurs	Sedan 3-5 Døre	Седан 3-5 дверный
	Station wagon - Familiare	Estate - Station wagon	Break	Kombi - Variant	Familiar	Familiar - Station Wagon	Stationcar	Stationcar	Универсал
	Coupé	Coupé	Coupé	Coupé	Coupé	Coupé	Coupé	Coupe	Купе
	Cabriolet - Spider	Cabriolet, Convertible	Cabriolet, Convertible	Cabriolet	Descapotable	Descapotável	Cabriolet	Cabriolet	Кабриолет / Спайдер
	Fuoristrada	Off road	Tout terrain	Geländewagen	Todo terreno	Todo-o-Terreno	Terreinwagen	Offroad 4x4	Джип
	Van - Furgoncino	Van - Commercial	Utilitaire - Fourgonette	Kastenwagen	Furgoneta - Comercial	Veículo Comercial - Furgão	Bedrijfsvoertuig	Van	Фургон - Грузовик
	Pick-Up	Pick-Up	Pick-Up	Pick-Up	Pick-Up	Pick-Up	Pick-Up	Pickup	Комби
	Autobus - Minibus - Monovolume	Bus - Minibus - Multi purpose vehicle	Bus - Minibus - Monospace	Bus - Kleinbus - Multipurpose vehicle	Autobús - Minibús - Monovolumen	Autocarro - Furgoneta	Bus - Minibus - Monospace	Bus - Minibus	Автобус - Минибус - Многоцелевое транспортное средство
	Ambulanza	Ambulance	Ambulance	Krankenwagen	Ambulancia	Ambulância	Ziekenwagen	Ambulance	Скорая помощь
	Furgone - Camioncino	Van - Truck	Camion - Camionette	LKV - Klainlaster	Camión ligero - Camioneta	Camião - Camioneta	Vrachtwagen - Bestelwagen	Varevogn	Фургон - Грузовик
	Autotelaio cabinato	Châssis cabine	Chassis Cab	Chassis Kabine	Chasis con cabina	Chassis de cabina	Chassis met cabine	Cab chassis/ Føererkabine	Грузопассажирский автомобиль
	Sinistra	Left hand	Gauche	Links	Izquierda	Lado esquerdo	Links	Venstre side	Правый
	Destra	Right hand	Droite	Rechts	Derecha	Lado direito	Rechts	Højre side	Левый
	Kit di protezione	Protection Kit	Kit de protection	Protection kit	Kit de protección	Jogo de Protecção	Beschermings-kit	Monterings kit	Защитный комплект
	Porte	Doors	Portes	Türen	Puertas	Portas	Deuren	Døre	Двери
	Amortizzatore sterzo	Steering damper	Amortisseur de direction	Lenkungsdämpfer	Amortiguador de dirección	Amortecedor de Direcção	Stuurdemper	Styrdæmper	Амортизатор рулевой рейки
	Sterzo manuale	Without Power Steering	Sans direction assistée	Ohne Servolenkung	Sin dirección asistida	Sem Direcção Assistida	Met Stuurbekrachting	Ingen servostyring	Механическая рулевая рейка
	Servosterzo	Power Steering	Direction assistée	Mit Servolenkung	Dirección asistida	Direcção Assistida	Zonder stuurbekrachting	Servostyring	Рулевая рейка с гидросилителем



	Cambio manuale Manual	transmission Boîte	manuelle Schaltgetriebe	Transmisión manual	Transmissão manual	Manuele versnellingsbak	Manuel gearkasse Механическая	коробка передач	
	Cambio Automatico	Automatic transmission	Boîte automatique	Automatikgetriebe	Transmisión automática	Transmissão automatica	Automatische versnellingsbak	Automat gear kasse	Автоматическая коробка передач
N.D.	Standard	Normal duty	Standard	Standard Ausführung	Normal	Normal	Standaard	Normal	Стандарт
H.D.	Rinforzato	Heavy duty	Renforcé	Verstärkte Ausführung	Reforzado	Reforçado	Versterkt	Forstærket	Усиленный
	Ruota	Wheel	Roue	Rad	Rueda	Roda	Wiel	Hjul	Колесо
Susp.	Sospensione	Suspension	Suspension	Aufhängung	Suspensión	Suspensão	Ophanging	Ophæng/ affjedring	Подвеска
	Sospensioni sportive	Sport suspension	Suspension sport	Sportfederung	Suspensión deportiva	Suspensão Desportiva	Sportvering	Sports- affjedring	Спортивная подвеска
	Sospensione per strade accidentate	For bad road suspension	Suspension pour routes dégradées	Federung für schlechte Straßen Suspensión para	carreteras en mal estado Suspensão para	maus pios Vering voor slecht	wegdek Affjedring til	dårling vej Усиленная	Подвеска
	Sospensione originale ribassata Original lowered	suspension Suspension	surbaissée Tieferlegung	Suspensión rebajada original	Suspensão rebaixada	Verlaagde ophanging	Forsænket affjedring	Оригинальная спортивная подвеска	
	Sospensione autolivellante	Self levelling suspension	Correcteur d'assiette	Niveau-Ausgleich- System Suspensión	autonivelante Suspensão	autonivelável Ophanging met	niveauregeling Selvregulerende	affjedring	Подвеска авторегулируемая
	Sospensione pneumatica	Air suspension	Suspension pneumatique	Luftfederung	Suspensión neumática	Suspensão pneumática	Pneumatische ophanging	Luftaffjedring	Пневматическая подвеска
	Sospensione idropneumatica	Hydropneumatic suspension	Suspension hydropneumatique	Hydropneumatische Aufhängung	Suspensión hidroneumática	Suspensão hidropneumática	Hydropneumatische ophanging	Hydraulisk affjedring	Гидропневматическая подвеска
	Sospensione regolabile elettronica	Electronically adjustable suspension	Suspension pilotée	Elektronisch einstellbare Federung	Suspensión ajustable electronicamente	Suspensão regulável electronicamente	Elektronisch gestuurde ophanging	Elektronisk styret affjedring	Электронно- регулируемая подвеска
	Balestra	Leaf spring	Ressort à lames	Blattfeder	Muelle de láminas	Mola de láminas	Bladveer	Bladfeder	Рессора
	Molla elicoidale	Coil spring	Ressort hélicoïdale	Schraubenfeder	Muelle helicoidal	Mola helicoidal	Spiraalveer	Spiralfeder	Спиральная пружина
	Ruote singole	Single wheel	Roues simples	Einzelbereifung	Ruedas simples	Rodas simples	Enkel wiel	Enkelthjul	Одиночные колеса
	Ruote gemelle	Twin wheels	Roues jumelées	Doppelbereifung	Ruedas dobles	Rodas duplas	Dubbele wielen	Tvillingehjul	Двойные колеса
	Asse rigido	Rigid axle	Essieu rigide	Feste Achse	Eje rígido	Eixo rígido	Vaste as	Stiv aksel	Жесткая ось
	Bracci indipendenti	Independant suspension	Suspensión indépendat	Unabhängige Aufhängung	Suspensión independiente	Suspensão independente	Onafhankelijke wielophanging	Uafhængig affjedring	Независимые рычаги
	Interasse	Wheel base distance	Empatement	Radstand	Distancia entre ejes	Distância entre eixos	Wielbasis- afstand	Hjulafstand	Межось



	Interasse corto	Short wheelbase	Empattement court	Kurzer Radstand	Distancia entre ejes corta	Dist. curta entre eixos	Korte wielbasis	Kort hjulafstand	Межось короткая
	Interasse medio	Medium wheelbase	Empattement moyen	Mittlerer Radstand	Distancia entre ejes media	entre eixos Middellange	wielbasis Medium	hjulafstand Межось	средняя
	Interasse lungo	Long wheelbase	Empattement long	Langer Radstand	Distancia entre ejes larga	Dist. longa entre eixos	Lange wielbasis	Stor hjulafstand	Межось длинная
	Barra di torsione singola	2 torsion bars	Train à 2 barres de torsion	2 Torsionsstäbe	2 barras de torsión	2 barras estabilizadoras	2 torsiestangen	To torsionsstænger (snoede) Двухторсионный	стабилизатор
	Doppia barra di torsione	4 torsion bars	Train à 4 barres de torsion	4 Torsionsstäbe	4 barras de torsión	4 barras estabilizadoras	4 torsiestangen	Fire torsionsstænger (snoede)	Четырех торсионный стабилизатор
	Trazione	Front wheel drive	Traction	Vorderradantrieb	Tracción delantera	Tracção	Voorwielaan drijving	Forhjulstræk	Передний привод
	Propulsione	Rear wheel drive	Propulsion	Hinterradantrieb	Tracción trasera	Tracção traseira	Achterwielaan drijving	Baghjulstræk	Задний привод
	Asse anteriore	Front wheels	Roues Avant	Vorderachse	Tren Delantero	Dianteira	Voor	For aksel	Передняя ось
	Asse posteriore	Rear wheels	Roues Arrière	Hinterachse	Tren Trasero	Traseira	Achter	Bag aksel	Задняя ось
2WD - 4X2	2 ruote motrici	2 wheel drive	2 roues motrices	2 Radantrieb	2 ruedas motrices	Rodas Motrizes	2 aangedreven wielen	2 hjulstræk	2 ведущих колеса
4WD - 4X4	4 ruote motrici	4 wheel drive	4 roues motrices	4 Radantrieb	4 ruedas motrices	4 Rodas Motrizes	4 aangedreven wielen	4 hjulstræk	4 ведущих колеса
excl.	Escluso	Excluding	Exclus	Ausschließlich	Excluyendo	Excepto	Exclusief	Eksklusive	Исключено
incl.	Incluso	Including	Inclus	Einschließlich	Incluyendo	Inclusivé	Inclusief	Inklusive	Включено
→ Ch. 000	Fino al numero di telaio	To chassis No.	Au chassis N°	Bis zur Fahrgestellnummer	Hasta el número de bastidor	Até ao Chassi N°	Tot chassin°	Til stelnummer	До номера шасси
Ch. 000←	Dal numero di telaio	From chassis No.	Du chassis N°	Ab Fahrgestellnummer	Desde el número de bastidor	A Partir do Chassi N°	Vanaf chassin°	Fra stelnummer	От номера шасси
O.E.	Riferimento originale	Original Part Number	Référence d'origine	Original Hinweis	Referencia original	Referência original	Origineel nummer Originalt	varenummer Оригинальный	код
ABS	Sistema antiblocco freni	Antiflock Brakes System	Freins antiblocage	Antiflockier systeme	Frenos antibloqueo	ABS	Antiblokkeer remsysteem	Med ABS	Противоблокировочная система тормозов

INFO ED AVVERTENZE

Seguire le seguenti istruzioni e informazioni, prima di effettuare il montaggio.

A Consigliamo innanzitutto di far eseguire il montaggio ad una officina specializzata ed attrezzata per il lavoro.

B Verificare la misurazione dell'altezza da terra prima di effettuare qualsiasi montaggio e dopo!

C Verificare, prima di smontare, il tipo esatto di veicolo con la relativa cilindrata, se poi benzina e diesel, l'anno di immatricolazione, il tipo di cerchi montati, il tipo di ammortizzatori installati, inoltre se il veicolo ha subito incidenti, il tipo di gomme montate, chilometraggio percorso, accessori installati quali ad esempio gancio di traino, pieno del serbatoio, ecc.

D Ricordiamo che l'abbassamento, il tipo di assetto e la funzionalità che si otterrà, dipendono anche dalle condizioni sopracitate.

E Normalmente l'abbassamento che si otterrà, può variare da 2 a 4 cm. max a seconda del modello e delle condizioni del punto C, in quanto gli studi e le prove di collaudo vengono eseguite sui veicoli nuovi e con dotazioni standard, qualora non si ottenessero tali risultati, consultare il distributore o il fabbricante. I valori di abbassamento sono ritenuti validi solo dopo diverse misurazioni effettuate dopo una certa percorrenza, affinché le molle si siano adattate nelle loro sedi.

F Le nostre molle di abbassamento sono compatibili con gli ammortizzatori originali installati quando ancora efficienti e tarati; qualora quest'ultimi non siano perfettamente efficienti si consiglia la sostituzione con ammortizzatori nuovi rinforzati, mentre il risultato ottimale si avrà con l'impiego degli ammortizzatori sportivi KGA.

G A montaggio effettuato è necessario rifare la convergenza e la campanatura delle ruote, inoltre nel caso che il veicolo sia munito di correttore di frenata, si dovrà controllare l'effetto ed eventualmente provvedere alla regolazione. Anche nel caso in cui il veicolo sia dotato di ABS, fare attenzione nel registrare in modo corretto i sensori a montaggio avvenuto.

H Per tutte queste ragioni si consiglia di affidarsi a personale specializzato ed attrezzato per questi impieghi, che fornirà altresì l'assistenza tecnica e l'informazione necessaria all'utilizzatore.

I Per molle speciali gruppo N, chiedere disponibilità modelli sterrato e asfalto.

L Si può verificare su alcuni modelli dove vengono montati ammortizzatori nuovi a gas, che non si ottenga l'abbassamento desiderato; in questo caso è consigliabile abbinare al KIT MOLLE il KIT AMMORTIZZATORI, oppure più semplicemente gli ammortizzatori della linea rinforzata.

M Per una corretta rilevazione della misura dell'altezza da terra del veicolo bisogna seguire sempre questo sistema (vedi pag. 5). Appoggiare il beccuccio del metro sul bordo inferiore del cerchio, passare con il metro al centro del mozzo ruota e leggere la misura in corrispondenza del bordo del passaruota.

N Per facilitare ai nostri tecnici una risposta concreta ad eventuali anomali abbassamenti, bisogna fornire le misurazioni precise (fatte come al punto C) per ogni ruota prima e dopo l'installazione, facendo attenzione di aver percorso con il nuovo assetto qualche chilometro per l'assestamento delle molle negli alloggiamenti.

Info & warnings

Please follow these instructions and information before installation.

A First of all we recommend that installation is carried out by specialists with appropriate equipment.

B Check the height of the vehicle from the ground before and after any installation!

C Before dismantling, check exactly the car model and engine, including if petrol or Diesel, year of production, type of rims, type of shock absorbers installed, besides if the vehicle has been crashed, the kind of tyres, mileage, accessories installed such as tow hook, if tank is full, etc.

D Please note that lowering, the kind of ride and functionality also depend on the aforementioned conditions.

E A lowered ride usually varies from 2 to 4 cm (max.) according to the model and conditions described in C, as studies and testing are performed on new vehicles with standard accessories. If such results should not be achieved, please apply to the distributor or the manufacturer. Lowered measures are considered valid only after several measurements and after a certain mileage, once springs have settled in their seats.

F Our lowering springs are compatible with the original shock absorbers installed when they are efficient and calibrated. If the latter should not be perfectly efficient, we recommend to replace them with new reinforced OSRAV shock absorbers, while the best results are obtained by using KGA sport shock absorbers.

G After installation check camber and toe-in of wheels and in the event the vehicle is equipped with a brake regulation device, control braking efficiency and adjust, if necessary. If the vehicle is also equipped with ABS, make sure that all the sensors are correctly adjusted after installation.

H For all these reasons we recommend to apply to specialists provided with appropriate equipment for these operations who will also provide all the technical assistance and information you may need.

I In case of special group N springs, please ask for availability of offroad and tarmac models.

L It may occur on some models on which new gas shock absorbers are installed, that you do not reach the desired lowering; in this case it is advisable to combine the SPRING KIT with the SHOCK ABSORBER KIT or more simply OSRAV reinforced shock absorbers.

M For the correct assessment of the height of the vehicle from the ground, follow these instructions carefully (see pag 5): place the tip of the meter against the lower edge of the rim, pass through the centre of the wheel hub and read the measure at the edge of the wheelhouse.

N To help our technicians provide a practical response in case of abnormal lowering, please supply correct measures (see point C) for each wheel before and after installation and after driving the car with the new ride for a few Km so that the springs can settle in their seats.

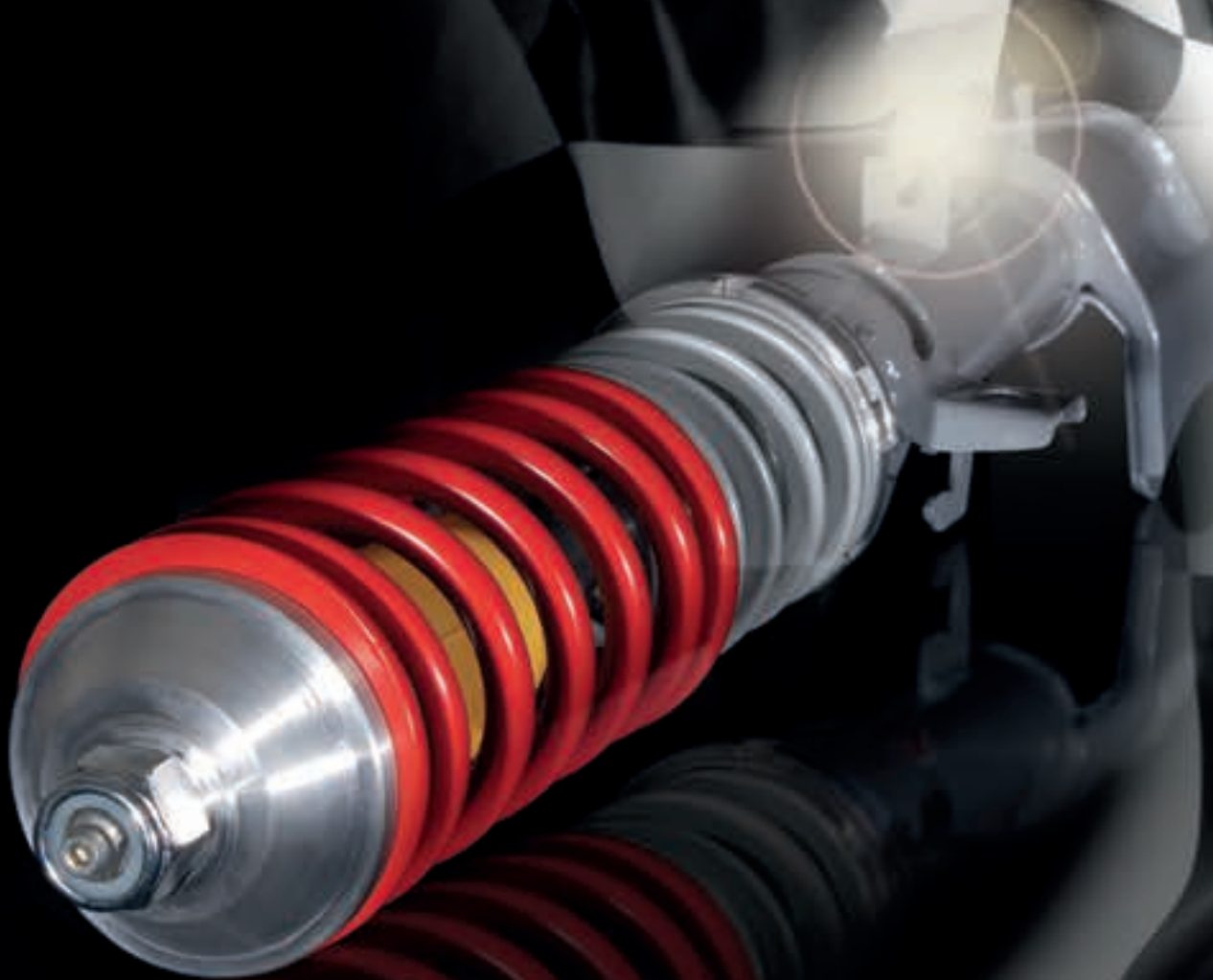
AVVERTENZA:

Fate attenzione nell'abbassamento sportivo dei veicoli equipaggiati con marmitta catalitica. Informare il proprietario del veicolo di avere avvertenza nella fase di sosta, data l'elevata temperatura del catalizzatore.

WARNINGS:

In case of sports lowered ride on new vehicles with catalytic exhaust, inform the owner of the vehicle to take care in case of a halt because of the high temperature of the catalytic unit.

 **VITAL** 
SUSPENSIONS *by OSRAV*



O.S.R.A.V. Alfeo Moret S.p.A.
via dell' Industria 13 (Z.I.) 31029 Vittorio Veneto TV - Italy
tel. +39 0438 912090 r.a. Fax +39 0438 501640
e-mail : osrav@osrav.it - www.osrav.it - www.vitalsuspensions.it