

# SEALEY

## DIESEL COMPRESSION ADAPTOR KIT - FORD, MAZDA, PSA

MODEL NO: **VSE3152**

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

**IMPORTANT:** PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to  
instruction  
manual



Wear eye  
protection



Wear protective  
clothing

### 1. SAFETY

- WARNING!** Ensure Health and Safety, local authority and general workshop practice regulations are adhered to when using tools
- × **DO NOT** use tools if threads are damaged. Any defectives must be rectified before use, to avoid incorrect readings.
- ✓ Maintain tools in a good, clean condition for the best and safest performance.
- ✓ Ensure that a vehicle that has been jacked up, is adequately supported with axle stands.
- ✓ Wear approved eye protection. A full range of personal safety equipment is available from your Sealey stockist.
- ✓ Wear suitable clothing to avoid snagging. **DO NOT** wear jewellery and tie back long hair.
- ✓ Ensure any disconnected fuel pipes are plugged to avoid spillage.
- ✓ Ensure that the correct connector is used for the engine being tested.
- ✓ Always release the pressure from the gauge, before disconnecting the quick release coupling.
- ✓ Account for all tools and parts being used and **DO NOT** leave them in or near the engine.
- ✓ Always refer to the vehicle manufacturer's service instructions, or a proprietary manual, to establish the current procedure and data.

### 2. INTRODUCTION

Diesel engine glow plug compression test adaptor kit that cover a wide range of modern vehicles. For use in conjunction with Sealey Diesel Compression Gauge, Hose & TDC Base Kit (Model No. VSE3157). See Sealey website for complete vehicle applications.



### 3. APPLICATIONS

Make / Model	Engine	Type	Information	Year	Adaptor No
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Alfa Romeo					
155	2.5	TD	VM07, VM31B, VM425CLIEA	05/95 -> 01/98	12
164	2.5	TD	VM08B, VM32B, VM425-SLIRA	05/95 -> 09/98	12

Audi					
A2	1.2	TDi	ANY	02/00 ->	12
A2	1.4	TDi	AMF	02/00 -> 08/03	12
A3	1.9	TDi	AGR, AHF, AJM, ALH	09/96 -> 05/03	12
A3	1.9	TDi	ASV	01/97 -> 07/98	12
A3	1.9	TDi	ANU	08/98 ->	12
A3	1.9	TDi	ASZ	10/00 -> 05/03	12
A3	1.9	TDi	ATD	10/00 ->	12
A3	1.9	TDi	AXR	10/00 -> 09/01	12
A3	1.9	TDi	AZV, BKD	03/03 ->	12
A4	1.9	D	AFF, AHH	03/96 -> 07/97	12
A4	1.9	TDi	1Z	01/95 -> 07/96	12
A4	1.9	TDi	AFN	02/96 -> 06/00	12
A4	1.9	TDi	AFF	03/96 -> 06/00	12
A4	1.9	TDi	AHU	08/96 -> 06/00	12
A4	1.9	TDi	AJM	01/98 -> 12/98	12
A4	1.9	TDi	AVG	08/99 -> 06/00	12
A4	1.9	TDi	ATJ	03/00 -> 09/01	12
A4	1.9	TDi	ATD	09/01 ->	12
A4	1.9	TDi	AVB	09/01 -> 04/04	12
A4	1.9	TDi	AVF, AWX	01/01 ->	12
A6	1.9	TDi	1Z, AHU	07/94 -> 10/97	12
A6	1.9	TDi	AFN	04/97 -> 04/01	12
A6	1.9	TDi	AJM	01/98 -> 04/01	12
A6	1.9	TDi	AVF, AWX	07/01 ->	12
A6	2.5	TDi	AAT, AEL	06/94 -> 10/97	12
Cabrio	1.9	TDi	1Z	07/95 -> 06/96	12
Cabrio	1.9	TDi	AHU	07/96 -> 11/00	12

BMW					
3-Series	320 (E46)	D	M47 D20	04/98 -> 09/01	12
3-Series	320 Compact (E46)	TD	M47 N204 D4	09/01 ->	12
3-Series	330 (E46)	Di	DDE306, M57 D30	08/99 -> 02/05	12
3-Series	330 (E46)	D	M57306D1	08/00 -> 02/05	12
3-Series	330 (E46)	Di	M57 D30	06/00 -> 02/05	12
5-Series	520 (E39)	Di	M47 D20	06/02 ->	12
5-Series	520 (E39)	D	M47 D20	02/00 -> 05/02	12
5-Series	525 (E39)	D	M57 D25	02/00 -> 06/03	12
5-Series	525 (E39)	TDS	M57 D25	02/00 -> 06/03	12
5-Series	525 (E39)	TDS	M57 D25	02/00 -> 05/04	12
5-Series	530 (E39)	D	M57 D30	05/98 -> 09/00	12
7-Series	730 (E38)	D	M52 D30H	05/98 -> 04/00	12
7-Series	730 (E38)	D	M52 D30H	04/00 ->	12
X5	2.9 (E53)	Di	M57 D30	05/01 -> 06/03	12

Chrysler					
Grand Voyager	2.5	TD	VM HR425 CLIEE	05/95 -> 04/01	12
Jeep Grand Cherokee	2.5	TD	ENC	04/99 ->	12
Jeep Grand Cherokee	3.1	TD	EXA	04/99 ->	12
Voyager	2.5	TD	VM	05/95 -> 04/01	12

<b>Citroen</b>					
AX	1.5	D	TUD5	10/94 -> 04/97	12
Berlingo	1.8	TD	DW8TD	09/98 ->	12
Berlingo	1.9	D	DW8B	07/98 ->	12
Berlingo	2	HDi	DW10	10/99 ->	17
C1	1.4	HDi	DV4D	06/05 ->	20
C2	1.4	HDi	DV4TD (8HX)	2003 ->	20
C3	1.4	HDi	DV4	02/02 ->	20
C3	1.4	HDi	DV4TED4	02/02 ->	20
C4	1.6	HDi	DV6ATED4 (9HX)	11/04 ->	20
C4	1.6	HDi	DV6TED4 (9HY/9HZ)	11/04 ->	20
C4 (Grande) Picasso	1.6	HDi	DV6ATED4 (9HY)	10/06 ->	20
C5	1.6	HDi	DV6TED4	09/04 ->	20
C5	1.6	HDi	DV6TED4	02/08 ->	20
C5	2	HDi	DW10TD, DW10TED	01/01 ->	17
C5	2.2	HDi	DW12TED4	01/01 ->	17
C8	2	HDi	DW10TD, DW10TED	07/02 ->	17
C8	2.2	HDi	DW12TED4	2002->	17
C15	1.9	D	DW8B	07/98 ->	12
Dispatch	1.9	D	XUD9AU	09/98 ->	12
Dispatch	1.9	TD	XUD9TF	09/98 ->	12
Dispatch	2	HDi	DW10	09/98 ->	17
Evasion	2	HDi	DW10ATED	07/99 -> 10/02	17
Jumper	2	HDi	DW10, DW10TD	09/98 ->	17
Jumper	2.2	HDi	DW12TED	04/02 ->	17
Jumper	2.2	HDi 100	4HV	04/06 ->	18
Jumper	2.2	HDi 120	4HU	04/06 ->	18
Jumpy	1.9	D	DW8	07/98 ->	12
Jumpy	2	HDi	RHX	10/99 ->	17
Jumpy	2	HDi	DW10ATED, BTED, TED4	2000 ->	17
Nemo	1.4	HDi	DV4TED	02/08 ->	20
Relay	1.8	D	DW8	09/98 ->	12
Relay	1.8	TD	DW8TD	09/98 ->	12
Relay	2	HDi	DW10	2000 ->	17
Saxo	1.5	D	TUD5,5B	02/96 -> 10/03	12
Synergie	1.9	TD	DW8	09/98 ->	12
Synergie	2	HDi	DW10ATED	07/99 ->	17
Xantia	2	HDi	DW10TD, DW10ATED	07/98 ->	17
Xsara	1.4	HDi	DV4	2003 ->	20
Xsara	1.5	D	TUD5	09/97 ->	12
Xsara	1.9	D	DW8,8B	04/98 ->	12
Xsara	2	HDi	DW10TD	04/99 ->	17
Xsara	2	HDi	RHZ DW10ATED	05/01 ->	17
Xsara Picasso	1.6	HDi	DV6TED4	05/04 ->	20
Xsara Picasso	2	HDi	DW10TD, DW10ATED	12/99 ->	17
ZX	1.5	D	TUD5	10/94 -> 06/98	12

<b>FIAT</b>					
Ducato	1.9	D	DJY	04/98 ->	12
Ducato	2	JTD	RHV (DW10)	10/01 -> 04/02	17
Ducato	2	JTD	RHV(DW10)	04/02 ->	17
Scudo	1.8	D	DW8,B	09/98 ->	12

<b>Lada</b>					
Sagona	1.5	D	TUD5L	11/96 ->	12
Samara	1.5	D	TUD5L	11/96 ->	12

<b>Lancia</b>					
Phedra	2	JTD	RHM	07/03 ->	17

Phedra	2	JTD	DW10TD,DW10TED	09/02 ->	17
Phedra	2.2	JTD	DW12TED4	09/02 ->	17
Zeta	2	D		2000-> 09/02	17

### Land Rover

Freelander	2	Di	20TCIE	07/97 -> 11/00	12
Freelander	2	Td4	M47 D20 (BMW)	11/00 ->	12
Range Rover	3	Td6	M57 D30 (BMW)	03/02 ->	12

### Mazda

2	1.4	CD	F6JA	04/03 ->	20
3	1.6	DI Turbo	Y601	06/04->	20

### MG

ZR	2	TD		06/01->	12
ZS	2	TD		01/04->	12
ZT	2	CDTi	204D2	06/02->09/03	12
ZT	2	CDTi	204D2	11/02->	12

### Nissan

Almera	1.5	dCi		01/03 ->	12
Interstar	1.9	dCi 80	F9Q, 772	07/02 ->	12
Interstar	2.2	dCi 90	G9T 722	07/02 ->	19
Interstar	2.5	dCi 100	G9U 632,650	11/03 ->	19
Interstar	2.5	dCi 120	G9U	09/06 ->	19
Interstar	2.5	dCi 150		07/02 ->	19
March	1.5	D	TUD5	10/96 ->	12
Micra	1.5	D	TUD5,TUD15	05/98 -> 12/02	12
Micra	1.5	TD	K9K	2002->	12
Note	1.5	dCi lp	K9K	03/06 ->	12
Note	1.5	dCi hp	K9K	03/06 ->	12
Primastar	1.9	dCi		03/01->	12

### Peugeot

106	1.5	D	TUD5,TUD5B	03/94 ->	12
107	1.4	HDi	DV4D	06/05 ->	20
1007	1.4	HDi	DV4TD (8HX, 8HZ)	04/05 ->	20
206	1.4	HDi		2001->	20
206	1.6	HDi	9HY (DV6 TED4)	05/04 ->	20
206	1.9	D	DW8,DW8B	07/98 ->	12
206	2	HDi	DW10,DW10TD	10/99 ->	17
306	1.9	D	DW8,DW8B	04/98 -> 03/01	12
306	2	HDi	DW10,DW10TD	08/98 -> 03/01	17
307	1.4	HDi	DV4TD	04/01 ->	20
307	1.6	HDi	9HY (DV6 TED4)	02/04 ->	20
307	2	HDi	DW10TD	04/01 ->	17
307	2	HDi	DW10ATED	04/01 ->	17
307	2	HDi	RHR (DW10 BTED4)	10/03 ->	17
406	2	HDi	DW10TD	04/99 ->	17
406	2	HDi	DW10ATED4 (RHS)	08/01 ->	17
406	2.2	HDi	DW12TED4	02/00 ->	17
406	2.2	HDi	DW12TED	09/00 ->	17
407	1.6	HDi	9HY (DV6 TED4)	05/04 ->	20
407	2	HDi	RHR (DW10 BTED4)	05/04 ->	17
607	2	HDi	DW10ATED	02/00 ->	17
607	2.2	HDi	DW12TED4	02/00 ->	17
806	2	HDi	DW10TED,4	09/98 -> 2002	17
807	2	HDi	DW10TD,DW10TED	2002->	17

807	2.2	HDi	DW12TED4	2002->	17
Bipper	1.4	HDi	DV4TED	02/08 ->	20
Boxer	2	HDi	DW10TD	09/98 ->	17
Boxer	2	HDi	DW10UTD (RHV)	04/02 ->	17
Boxer	2.2	HDi	DW12UTED (4HY)	04/02 ->	17
Boxer	2.2	HDi 100	PUMA 22 DT	04/06 ->	18
Boxer	2.2	HDi 120	PUMA 22 DT	04/06 ->	18
Expert	1.9	D	DW8	07/98 ->	12
Expert	2	HDi	DW10TD	12/99 ->	17
Expert	2	HDi	DW10ATED	07/00 ->	17
Partner	1.9	D	DW8	07/98 ->	12
Partner	2	HDi	DW10TD	12/99 ->	17

## Renault

Avantime	2.2	dCi	F9Q	09/01 ->	12
Avantime	2.2	dCi	G9T-720	09/01 ->	19
Clio	1.5	DCi	K9K65,K9K80,K9K700	06/01 ->	12
Clio	1.5	dCi	K9K 768	06/05 ->	12
Clio	1.5	dCi	K9K 766	06/05 ->	12
Clio	1.5	dCi	K9K 764	06/05 ->	12
Clio	1.9	D	F9Q.780	03/99 ->	12
Clio	1.9	DTi	F9Q.716	02/99 ->	12
Clio	1.9	DTi	F9Q.716	03/99 ->	12
Espace	1.9	DTi	F9Q-722	02/99 ->	12
Espace	1.9	DCi	F9Q-820	11/02 ->	12
Espace	2.2	TD	G8T- 714,716	10/96 -> 08/00	12
Espace	2.2	DCi	G9T- 710	09/00 ->	19
Espace	2.2	DCi	G9T- 742, 743	11/02 ->	19
Kangoo	1.5	DCi	K9K-710	09/02 ->	12
Kangoo	1.5	DCi	K9K-700, 704	12/01 ->	12
Kangoo	1.5	DCi	K9K-702	07/02 ->	12
Kangoo	1.9	DTi	F9Q-780	02/00 ->	12
Kangoo	1.9	DTi	F9Q-790	10/01 ->	12
Laguna	1.5	dCi		10/07 ->	12
Laguna	1.9	DTi	F9Q.716	05/98 -> 01/99	12
Laguna	1.9	DTi	F9Q710,717,718	01/99 -> 12/00	12
Laguna	1.9	DCi	F9QT-750,751,752	01/01 ->	12
Laguna	2	dCi	M9R 920	10/07 ->	12
Laguna	2.2	D	G8T-706,752,790,792,794	02/96 -> 06/98	12
Laguna	2.2	TD	G8T	01/94 -> 03/01	12
Laguna	2.2	TD	G8T-760	02/96 -> 06/98	12
Laguna	2.2	DCi	F9Q	03/01 ->	12
Laguna	2.2	DCi	G9T-702	01/02 ->	19
Master	1.9	DTi	F9Q-770	09/99 ->	12
Master	2.2	DCi	F9Q	06/00 ->	12
Master	2.2	D	G9T-720 (722INTD)	10/00 ->	19
Master	2.5	DCi	G9T-722	10/03 ->	19
Master	2.5	DCi	G9T-720	10/01 ->	19
Megane	1.5	DCi		09/02 ->	12
Megane	1.9	DCi	F9Q	11/03 ->	12
Megane	1.9	DCi	F9Q-731,736	01/99 -> 08/02	12
Megane	1.9	DCi	F9Q-732,733	03/99 -> 08/02	12
Megane	1.9	DTi	F9Q-730,734	03/97 -> 12/98	12
Megane	1.9	DTi	F9Q-730,734	04/97 -> 02/99	12
Megane	1.9	DTi	F9Q-731,732,736,740	01/99 -> 08/02	12
Megane	1.9	DTi	F9Q-731,736	01/99 -> 08/02	12
Megane	1.9	DTi	F9Q-744	02/01 -> 08/02	12
Megane	1.9	DTi	F9Q-744	02/01 -> 08/02	12
Megane Scenic	1.9	Di	F9QT-770	06/00 ->	12

Megane Scenic	1.9	TD	F9Q-730, 734	01/96 -> 09/99	12
Megane Scenic	1.9	dCi	F9Q-730,734	01/96 -> 09/99	12
Megane Scenic	1.9	dCi	F9Q-732,733	03/99 ->	12
Megane Scenic	1.9	dCi	F9Q-731,736	03/99 -> 09/99	12
Megane Scenic	1.9	dCi	F9Q-716, 718	06/00 ->	12
Megane Scenic	1.9	DTi	F9Q-731,732,736,740	01/99 ->	12
Megane Scenic	1.9	DTi	F9Q-716, -718	03/99 ->	12
Megane Scenic	1.9	DTi	F9Q-744	02/01 ->	12
Modus	1.5	dCi		12/04->	12
Safrane	2.2	TD	G8T-740	10/96 -> 11/01	12
Scenic	1.5	dCi	K9K-722	06/03 ->	12
Scenic	1.5	dCi	K9K-728	12/03 ->	12
Scenic	1.9	dCi	F9Q-730, 734	01/96 -> 09/99	12
Scenic	1.9	dCi	F9Q-731, 736	03/99 -> 09/99	12
Scenic	1.9	dCi	F9Q-716, 733	11/00 ->	12
Scenic	1.9	dCi		06/03 ->	12
Scenic	1.9	dCi	F9Q-812	06/03 ->	12
Scenic	1.9	dCi		05/05 ->	12
Thalia	1.5	dCi	K9K-700	04/02 ->	12
Thalia	1.5	dCi	K9K-702	06/01 ->	12
Trafic	1.9	dCi	F9Q-760, 762	03/01 ->	12
Trafic	2.5	dCi	G9U-730	05/03 ->	19
Vel Satis	2.2	dCi	G9T-600, 702, 703	04/02 ->	19

## Rover

25	2	TD	20T	10/99 ->	12
45	2	TD	20T	02/00 ->	12
75	2	CDT	M47R (BMW)	04/99 ->	12
75	2	CDTi	204 D2	02/03 ->	12
100	115 - 1.5	D	TUD5	03/95 ->	12
200	220 - 2.0	D	20T2N, 20T2R	01/96 -> 03/00	12
400	420 - 2.0	SD	20T2R	03/96 ->	12
400	420 - 2.0	SDi	20T2N	03/96 ->	12
600	620 - 2.0	TD	20T2N	02/95 -> 06/99	12
800	825 - 2.5	TD	VM425 Stira	05/95 -> 02/99	12

## Seat

Alhambra	1.9	TDi	1Z,AFN	01/96 ->	12
Alhambra	1.9	TDi	AHU	07/96 ->	12
Alhambra	1.9	TDi	ANU	03/99 -> 09/01	12
Alhambra	1.9	TDi	AVG	06/99 ->	12
Alhambra	1.9	TDi	AJM	04/00 ->	12
Alhambra	1.9	TDi	AUY	06/00 ->	12
Alhambra	1.9	TDi	ASZ	11/02 ->	12
Arosa	1.4	TDi	AMF	08/99 -> 10/01	12
Arosa	1.4	TDi	AMF	11/01 ->	12
Arosa	1.7	SDi	AKU	10/97 ->	12
Cordoba	1.7	SDi		07/97 -> 06/99	12
Cordoba	1.9	SDi	AEY	01/96 -> 09/02	12
Cordoba	1.9	SDi	AQM,AGP	06/99 ->	12
Cordoba	1.9	SDi	ASY	10/02 ->	12
Cordoba	1.9	TDi	1Z,AHU,ALH,AGR	08/96 ->	12
Cordoba	1.9	TDi	AFN,ASK,ASV	06/97 ->	12
Cordoba	1.9	TDi	ASZ	10/02 ->	12
Cordoba	1.9	TDi	ATD	10/02 ->	12
Ibiza	1.7	SDi		07/97 -> 08/99	12
Ibiza	1.9	SDi	AEY	03/93 -> 08/99	12
Ibiza	1.9	SDi	AQM,AGP	08/99 ->	12
Ibiza	1.9	TDi	1Z,AHU,AFN	08/96 -> 08/99	12

Ibiza	1.9	TDi	ALK,ALH,AGR,ASK,ASV	08/99 ->	12
Inca	1.9	SDi	AEY,AYQ	11/95 ->	12
Leon	1.9	SDi	AQM	11/99 ->	12
Leon	1.9	TDi	ALG,AGR	09/99 ->	12
Leon	1.9	TDi	ASV,AHF	09/99 ->	12
Leon	1.9	TDi	ARL	01/01 ->	12
Toledo	1.9	SDi	AEY	12/95 -> 03/99	12
Toledo	1.9	TDi	1Z,AFN	08/96 -> 10/98	12
Toledo	1.9	TDi	AGR,AHU,ALH	01/97 ->	12
Toledo	1.9	TDi	AHF,ASV	11/98 ->	12
Toledo	1.9	TDi	ASZ	05/03->	12
Toledo	1.9	TDi	ARL	01/01 ->	12

## Skoda

Fabia	1.4	TDi	AMF	04/03 ->	12
Fabia	1.9	SDi	ASY	1999->	12
Fabia	1.9	SDi	AGP	12/99 ->	12
Fabia	1.9	TDi	ATD	1999->	12
Fabia	1.9	TDi	AJM	12/99 ->	12
Fabia	1.9	TDi	AHF	10/00 ->	12
Octavia	1.9	D	AGP	07/96 ->	12
Octavia	1.9	SDi	AEY	09/96 ->	12
Octavia	1.9	SDi	AGP,AQM	05/97 ->	12
Octavia	1.9	TDi	1Z	1996->07/00	12
Octavia	1.9	TDi	AGR	01/96 ->	12
Octavia	1.9	TDi	ALH	07/96 ->	12
Octavia	1.9	TDi	AHF	01/97 ->	12
Octavia	1.9	TDi	AGR,AHF,ALH,ASV,ATD	08/00 ->	12
Octavia	1.9	TDi	AJM, AUY	10/00 ->	12
Octavia	1.9	TDi	ATD	10/00 ->	12
Octavia	1.9	TDi	ASZ	02/03 ->	12
Roomster	1.4	TDi	BNM, BMS	09/06 ->	12
Superb	1.9	TDi	AVB	08/02 ->	12
Superb	1.9	TDi	AVF, AWX	02/02 ->	12

## Suzuki

Grand Vitara	1.9	DDiS	F9Q	10/05 ->	12
Grand Vitara	2	TDi	DW10, RHW	2000->	17
Jimny	1.5	DDiS	K9K 700	12/03 ->	12
Liana	1.4	TD	8HY (DV4TED4)	03/05 ->	20

## Toyota

Aygo	1.4	D	2WZ-TV	05/05 ->	20
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## Vauxhall / Opel

Frontera	2.5	TD	25TD	09/96 -> 08/98	12
Movano	1.9	DTi	F9Q-770	12/99 ->	12
Movano	2.2	DTi	G9T-720	09/00 ->	19
Movano	2.5	DTi		10/01 ->	19
Vectra	2.0	DTi		03/03 ->	17
Vivaro	1.9	Di	F9Q 770	12/99 ->	12
Vivaro	1.9	DTi	F9Q 760	08/01 ->	12
Vivaro	2.5	DTi	G9U 730	04/04 ->	19

## VW

Beetle	1.9	TDi	ALH, AGR	11/98 -> 09/00	12
Beetle	1.9	TDi	ATD	10/00 -> 10/01	12

Beetle	1.9	TDi	ATD	11/01 ->	12
Beetle	1.9	TDi	AXR	03/03 ->	12
Bora	1.9	SDi	AGP, AQM	09/98 ->	12
Bora	1.9	TDi	AHF, ALH, AGR, ASV, AJM, AUY, ANU	10/98 -> 06/01	12
Bora	1.9	TDi	ARL	05/00 -> 10/01	12
Bora	1.9	TDi	ARL	11/01 ->	12
Bora	1.9	TDi	ASZ (Ch No ->172.600000)	11/01 ->	12
Bora	1.9	TDi	ASZ (Ch No 172.600001->)	11/01 ->	12
Bora	1.9	TDi	ATD	11/01 ->	12
Bora	1.9	TDi	AXR	11/01 ->	12
Caddy	1.7	SDi	AHB	10/96 ->	12
Caddy	1.9	SDi	AEY	11/95 -> 02/04	12
Caddy	1.9	TDi	AHU, ALE	08/96 -> 02/04	12
California	2.5	TDi	ACV	08/95 ->	12
California	2.5	TDi	AJT	05/98 ->	12
Caravelle	2.5	TDi		08/95 ->	12
Eurovan	2.5	SDi		01/95 ->	12
Fox	1.4	TDi	BNM	04/05 ->	12
Golf 3	1.9	SDi	AEY	09/93 -> 02/99	12
Golf 3	1.9	TDi	1Z,AHU,ALE	09/91 -> 07/96	12
Golf 3	1.9	TDi	AFN	09/93 -> 02/99	12
Golf 4	1.9	Di	ANU	01/99 -> 03/04	12
Golf 4	1.9	SDi	AEY	10/97 -> 02/99	12
Golf 4	1.9	SDi	AGP,AQM	07/97 -> 03/04	12
Golf 4	1.9	TDi	AFN,AHF,ASV	10/97 -> 06/01	12
Golf 4	1.9	TDi	AGR,ALH,AHU	09/97 -> 06/01	12
Golf 4	1.9	TDi	ASZ	01/98 -> 10/01	12
Golf 4	1.9	TDi	AJM,AUY	04/98 -> 06/01	12
Golf 4	1.9	TDi	ARL	05/00 -> 10/01	12
Golf 4	1.9	TDi	ATD	10/00 -> 03/03	12
Golf 4	1.9	TDi	AVF	07/01 -> 03/03	12
Golf 4	1.9	TDi	ARL	11/01 -> 03/03	12
Golf 4	1.9	TDi	ASZ	11/01 -> 03/03	12
Golf 4	1.9	TDi	ATD	11/01 -> 03/03	12
Golf 4	1.9	TDi	AXR	11/01 -> 03/03	12
LT28	2.5	SDi	AGX	05/96 ->	12
LT28	2.5	TDi	AHD, ACV	05/96 -> 08/99	12
LT28	2.5	TDi	ANJ, AVR	01/99 ->	12
LT28	2.5	TDi	APA	05/99 ->	12
LT35	2.5	SDi	AGX	05/96 -> 04/01	12
LT35	2.5	TDi	AHD	05/96 -> 08/99	12
LT35	2.5	TDi	ANJ, AVR	01/99 ->	12
LT35	2.5	TDi	APA	05/99 ->	12
LT46	2.5	TDi	ANJ	01/99 ->	12
LT46	2.5	TDi	APA	05/99 ->	12
Lupo	1.2	TDi	ANY	06/99 -> 11/00	12
Lupo	1.2	TDi	AYZ	11/00 -> 10/01	12
Lupo	1.2	TDi	ANY, AYZ	11/01 ->	12
Lupo	1.4	TDi	AMF	01/99 -> 10/01	12
Lupo	1.4	TDi	AMF	11/01 ->	12
Lupo	1.7	SDi	AKU	10/98 ->	12
Multivan	1.9	TDi	AXB	04/03 ->	12
Multivan	2.5	TDi	ACV	08/95 ->	12
Multivan	2.5	TDi	AJT	05/98 ->	12
Multivan	2.5	TDi	AXE	04/03 ->	12
Multivan	2.5	TDi	AXD	04/03 ->	12
Passat	1.9	TDi	1Z, AHU, AHH	10/93 -> 12/00	12
Passat	1.9	TDi	AFN, AVG	10/96 -> 12/00	12
Passat	1.9	TDi	AJM, AWX, ATJ	10/98 ->	12



Passat	1.9	TDi	AVB, ATD	11/00 -> 10/01	12
Passat	1.9	TDi	AVF	01/01 -> 10/01	12
Passat	1.9	TDi	AVF,AWX	11/01 ->	12
Passat	1.9	TDi	AVB	11/01 ->	12
Phaeton	5	TDi	AJS	11/02 ->	12
Polo	1.4	TDi	AMF	04/99 -> 09/01	12
Polo	1.4	TDi	AMF, BAY	10/01 ->	12
Polo	1.4	TDi	ATD, AXR	10/01 ->	12
Polo	1.7	SDi	AHB	01/96 -> 12/99	12
Polo	1.7	SDi	AHG, AKU, AKW	05/97 -> 09/01	12
Polo	1.7	SDi	AKW	11/97 ->	12
Polo	1.7	SDi	AKU	10/99 -> 04/00	12
Polo	1.9	SDi	AEY, AGD	07/96 -> 09/01	12
Polo	1.9	SDi	AQM	09/99 -> 09/01	12
Polo	1.9	TDi	AHU, ALE	08/96 -> 08/99	12
Polo	1.9	TDi	AFN, ATD	06/98 -> 08/01	12
Polo	1.9	TDi	ALH, AGR	09/99 -> 08/01	12
Sharan	1.9	TDi	1Z,AHU, ANU	09/95 -> 10/01	12
Sharan	1.9	TDi	AFN,AVG	09/95 -> 04/00	12
Sharan	1.9	TDi	AUY	03/00 -> 10/01	12
Sharan	1.9	TDi	AUY	11/01 ->	12
Sharan	1.9	TDi	AHU, ANU	11/01 ->	12
Sharan	1.9	TDi	ASZ	11/02 ->	12
Touareg	2.5	R5 TDi	BAC	01/03->	12
Touareg	5	TDi		10/02 ->	12
Transporter	2.5	TDi	ACV	08/95 -> 04/98	12
Transporter	2.5	TDi	AHY, AJT	05/98 ->	12
Transporter	2.5	TDi	AUF	11/99 ->	12
Transporter	2.5	TDi	AYC	09/00 ->	12
Transporter	2.5	TDi	AYY	10/01 ->	12
Vento	1.9	SDi	AEY	01/95 -> 07/97	12
Vento	1.9	TDi	1Z	10/93 -> 07/96	12
Vento	1.9	TDi	AHU, AFN, ALE	08/96 -> 10/98	12

## Volvo

850	2.5	TDi	D5252T	08/95 -> 12/98	12
C30	2	D	D4204 T	10/06 ->	17
S40	1.6	D		01-05 ->	20
S40	1.9	DI	D4192T3	03/99->07/00	12
S60	2.5	TDi	D5252T	10/01 ->	12
S70	2.5	TDi	D5252T	12/96 -> 11/00	12
S80	2.5	TDi	D5252T	07/98 ->	12
V40	1.9	DI	D4192 T2	03/99->07/00	12
V50	1.6	D		01/05 ->	20
V70	2.5	TDi	D5252T	12/96 -> 11/00	12

## 4. INSTRUCTIONS

### 4.1. OVERVIEW OF COMPRESSION TESTING.

- 4.1.1. When an engine's performance is down, or if misfiring occurs which cannot be attributed to the ignition or fuel systems, a compression test can provide diagnostic clues as to the engine's condition.
- 4.1.2. Compression should build up quickly in a healthy engine.
- 4.1.3. A very low compression reading on the first stroke, followed by gradually increasing pressure on successive strokes, indicates worn piston rings.
- 4.1.4. A low compression reading on the first stroke, which does not build up during successive strokes, indicates leaking valves or a faulty head gasket (a cracked head could also be the cause).
- 4.1.5. Deposits on the undersides of the valve heads can also cause low compression.
- 4.1.6. If the pressure in any cylinder is considerably lower than the others, introduce a small quantity of clean oil into that cylinder through the glow plug hole, and repeat the test. If the addition of oil temporarily improves the compression pressure, this indicates that bore or piston wear is responsible for the pressure loss. If there is no improvement, it suggests that the leakage is around the valves, or a faulty head gasket.
- 4.1.7. A low reading from two adjacent cylinders suggests a faulty head gasket between the two cylinders. The presence of coolant in the engine oil will confirm this.
- 4.1.8. If the compression is unusually high, the combustion chambers are probably coated with carbon deposits. If this is the case, the cylinder head should be removed and de-carbonised.
- 4.1.9. As a rough guide, engines having a compression pressure in excess of 100psi (6.9 bar), should not exceed a compression loss of more than 10psi (0.69 bar). On older engines with lower compression pressure, loss should not exceed 0.35 bar (5psi).

### 4.2. COMPRESSION TESTING.

- 4.2.1. Check the engine oil is at the correct level.
- 4.2.2. Remove all of the glow plugs from the engine.
- 4.2.3. Select the applicable adaptor and screw it into the first glow plug port, ensuring there is a good seal with the O-ring (if fitted). Connect the coupling on the pressure gauge hose to the adaptor, ensuring it locks into place.
- 4.2.4. Turn over the engine using the starter motor and observe the gauge, looking for a steady increase in the reading, and note the maximum reading obtained. Refer to the vehicle/engine manufacturer's workshop manual for compression results data.
- 4.2.5. Depress the Re-set Valve (situated under the gauge) to release the pressure. The Re-set Valve allows the test to be repeated if required without disconnecting the tester from the glow plug port.
  - ❑ **WARNING!** Always release pressure via the Re-set Valve BEFORE disconnecting the Tester.
- 4.2.6. Disconnect the compression tester from the adaptor and remove the adaptor from the glow plug port. Install them into the next cylinder's glow plug port and repeat the tests. Continue the tests for all of the remaining cylinders in turn.

**NOTE:** A variation in compression readings between cylinders is often a better indication of engine problems than the individual values of compression.

### 4.3. TDC INDICATOR TOOL.

- 4.3.1. Remove the glow plug from cylinder number 1. It may also be necessary to remove all glow plugs to facilitate manual turning over of the engine.
- 4.3.2. Select the applicable adaptor from one of the accompanying kits and screw it into the glow plug port of cylinder number 1. Ensure that there is a good seal with the O-ring (if fitted). Connect the coupling on the TDC finder to the adaptor, ensuring it locks into place.
- 4.3.3. Position the indicator in a vertical position, in a suitable viewable location, using the magnetic hook if needed.
- 4.3.4. Turn the engine over manually, using a spanner or socket on the crankshaft pulley, in the direction of engine rotation and watch for the float to rise in the tube. As the piston rises on the compression stroke, the float will rise to the top of the tube and stay there, when the piston goes past TDC and compression is lost, the float will suddenly sink. Note position and temporarily make suitable marks to indicate TDC, or compare with existing timing marks.
- 4.3.5. Turn the engine over a further 1¼ turns and the float should start to rise again as the piston rises on the compression stroke. Continue to slowly turn the crankshaft towards TDC (watching the timing marks) - note the exact point when the float drops. Alter the timing mark if required.
- 4.3.6. Repeat the procedure, turning the engine over a further 2 turns to re-check for accuracy.
- 4.3.7. Disconnect the TDC tool from the adaptor and remove the adaptor from the glow plug port.



#### ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.



**Note:** It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice. Please note that other versions of this product are available. If you require documentation for alternative versions, please email or call our technical team on [technical@sealey.co.uk](mailto:technical@sealey.co.uk) or 01284 757505.

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**Warranty:** Guarantee is 12 months from purchase date, proof of which is required for any claim.

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