DIESEL COMPRESSION TEST KIT

Item Number W89731

OWNER'S MANUAL



WARNING: READ, UNDERSTAND AND FOLLOW ALL INSTRUCTIONS AND WARNINGS BEFORE OPERATING THIS TOOL. FAILURE TO DO SO MAY RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE AND WILL VOID WARRANTY.



SPECIFICATIONS:

Specifications are subject to change without notice.

SAFETY GUIDELINES / DEFINITIONS

This instruction manual is intended for your benefit. Please read and follow the safety, installation, maintenance and troubleshooting steps described within to ensure your safety and satisfaction. The contents of this instruction manual are based upon the latest product information available at the time of publication. The manufacturer reserves the right to make product changes at any time without notice.

AWARNING: Read and understand this entire instruction manual before attempting to assemble, install, operate or maintain this product. Failure to comply with the instructions may result in serious personal injury and/or property damage!

The following signal words are used to emphasize safety warnings that must be followed when using this product:

DANGER: Indicates an imminently hazardous situation that, if not avoided, WILL result in death or serious injury.

CAUTION: Indicates a potentially hazardous situation that, if not avoided, MAY result in minor or moderate injury.

WARNING: Indicates a potentially hazardous situation that, if not avoided, COULD result in death or serious injury.

ANOTE: Indicates important information, which if not followed, MAY cause damage to equipment.

IMPORTANT SAFETY INFORMATION

- 1. Do not exceed 1000 psi maximum pressure.
- 2. Wear ANSI approved safety goggles and protective wear during setup and use.
- 3. Use tester in well ventilated areas.
- 4. Before using, set transmission in park (for automatic transmission) or neutral (for manual transmission) and set parking brake.
- 5. Keep out of reach of children.
- 6. Install and remove tester only while engine is stopped.
- 7. Keep work area clean and well lit.
- Dress properly. Do not wear loose clothing or jewelry as they can be caught in moving engine parts. Protective clothes and nonskid footwear are recommended when working. Wear restrictive hair covering to contain long hair.
- 9. Do not overreach. Keep proper footing and balance at all times.
- 10. Maintain test kit with care. Keep clean for better and safer performance. Inspect hoses periodically, and if damaged, have them repaired by a qualified technician.
- 11. Stay alert. Watch what you are doing, use common sense. Do not operate when you are tired.
- 12. Check for damaged parts. Before using, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment and binding of moving parts; any broken parts or mounting fixtures; and any other condition that may affect proper operation. Any part that is damaged should be properly repaired or replaced by a qualified technician.
- 13. Do not operate if under the influence of alcohol or drugs. Read warning labels if taking prescription medicine to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not operate.
- 14. Do not start an engine in an enclosed area (like a garage). A running gasoline engine generates carbon monoxide; carbon monoxide is a colorless, odorless gas that can cause serious injury and death, if inhaled.
- 15. Keep hands away from the moving parts and hot parts of vehicle's engine.
- 16. Read and understand all instructions and safety precautions as outlined in the vehicle manufacturer's manual for air condition servicing.

CONTENTS

No. Description Qty. 1 Pressure Gauge1 2 Air Release Button1 З Rubber Hose..... 1/8 in. NPT Quick Coupler 4 5 6 M12 x 1.25 (F)-M18 x 1.5 (M) Adapter2 7 8 9 ZG 1/8 in. (M) Male Quick Coupler1 10 ZG 1/8 in. (F)-M24 x 2 (M) Adapter1 11 12 Adapter Sleeve Quick Connect with Ball Tip 13 14 1/2 in.-19 Lock Nut..... 15 7/16 in.-20 (M)-7/16 in. x 20 (F) 90° Connector 16 ZG 1/8 in. (M)-M24 x 1.5 (M) Adapter1 17 M10 x 1 (M) Adapter 18 Copper Washer.....

ASSEMBLY INSTRUCTIONS

NOTE: Letters designate adapter assemblies.



ASSEMBLY INSTRUCTIONS

- 1. Check that vehicle battery is fully charged. Set car in neutral or park and set parking brake.
- 2. Refer to adapter chart for correct engine adapter. Secure assemble as shown in diagram.
- 3. Start engine and allow to warm up to operating temperature.
- 4. Once engine is warm, shut off engine and remove fuel shutdown solenoid (refer to vehicles repair manual for location).
- 5. Remove all of the glow plugs or injectors depending on adapter being used. Mark injector wires for ease in reassembly. Label all injectors and glow plugs for reinstallation.
- 6. Connect compression tester to engine. With accelerator pedal fully depressed, turn engine over for 8 revolutions.

▲CAUTION: Continuing to crank engine for a longer period of time may result in damage to the starter motor or draining the battery.

- 7. Read and record compression number displayed on gauge. Press air release button and remove gauge from engine.
- 8. Repeat for remaining cylinders.
- 9. Reinstall injectors or glow plugs and reinstall fuel injection solenoid.
- 10. Clean tester and store in a cool, dry place out of reach of children.

NOTE: A good engine will see a quick jump in initial compression figures on the gauge, with a slow rise to maximum upon the 8th revolution of the motor. A poor engine will see a slow rise in compression and be below specifications in vehicle repair manual. In general, all cylinders should be within 10% from best to worst cylinder.

APPLICATION GUIDE						
Manufacturer	Engine	Туре	Thread	Adapter #		
Audi®	All	Injector	24 x 2.00	С		
Mercedes-Benz®	Early models	Injector	24 x 2.00	С		
VW®	1970's Rabbit®	Injector	24 x 2.00	С		
Volvo®	Early models except 30's & 40's	Injector	24 x 2.00	С		
BMW®	2.4L	Glow Plug	12 x 1.25	Η ^υ		
Chevette®/Isuzu®; Luv®/Isuzu®	1.8L, 2.2L	Glow Plug	10 x 1.25	E		
Cummins®/Case® "B" Series	2.9L, 3.9L, 5.9L	Injector	24 x 1.5	В		
Dodge®/Cummins®	5.9L	Injector	24 x 1.5	В		
Ford®/Mazda®	(1984-87) 2.0L (1983-84) 2.2L	Glow Plug	10 x 1.25 10 x 1.25	F		
Ford®/Mitsubishi®	(1985-87) Ranger® 2.3L	Glow Plug	10 x 1.25	F		
Ford®/Navistar®	(1983-94) 6.9L and 7.3L	Glow Plug	10 x 1.00	А		
General Motors®	4.3L V6, 4.3L V8, 5.7L V8 Duramax® 6.6L Turbo Diesel	Glow Plug	10 x 1.00 10 x 1.25	A E		
Hummer®	Optimizer 6500® V8 Turbo	Glow Plug	10 x 1.25	E		
lsuzu®/lsuzu® Truck	1.8L & 2.2L (1992-1998) 4HE1-TC (1998-2005) 6HK1-TC (1998-2005) 4HE1-TC (Up to 1998) 6HK1-TC	Glow Plug Glow Plug Glow Plug Glow Plug Glow Plug	10 x 1.25 10 x 1.25 10 x 1.25 12 x 1.25 12 x 1.25	E E H ^u lu H ^u lu		
4		Siow i lug	12 / 1.20			

APPLICATION GUIDE CONT

Manufacturer	Engine	Туре	Thread	Adapter #
Kubota®	Some models	Glow Plug	10 x 1.25	F
Lincoln®, Mark VII/®	1984-85 2.4L	Glow Plug	12 x 1.25	Н
Continental®	Models using Volvo® engines	Glow Plug	10 x 1.25	F
Mercedes-Benz®	(1988-89) 190E 2.5L	Glow Plug	12 x 1.25	H [∪] ,I [∪]
	(1991-99) E300	Glow Plug	10 x 1.00	
	2005 E320 CDI	Glow Plug	10 x 1.00	
Mitsubishi® Mitsubishi-Fuso®	2 & 3 Cylinder engines	Glow Plug	10 x 1.25	F
Navistar®/ International®	Medium 6.9L and 7.3L	Glow Plug	10 x 1.00	A
Nissan®/ UD Truck®	2.2L	Glow Plug	10 x 1.25	F
Peugeot®	Medium	Glow Plug	12 x 1.25	Η ^υ
	Most	Glow Plug	18 x 1.50	Н
Toyota®	Certain models	Glow Plug	10 x 1.25	
	1.8L	Glow Plug	10 x 1.25	F
Volvo®	All cars & trucks	Injector	24 x 2.00	С
VW®	2.2L	Glow Plug	12 x 1.25	ΗυΙυ
	(1979-84) Rabbit®	Glow Plug	12 x 1.25	Η ^υ Ι ^υ
	(1979-99) Jetta®	Glow Plug	12 x 1.25	Hulu
	(1981-84) Pick-Up	Glow Plug	12 x 1.25	Hulu
	(1987-99) Golf®	Glow Plug	12 x 1.25	
	(1992-97) Passat®	Glow Plug	12 x 1.25	
	(1992-98) Eurovan®	Glow Plug	10 x 1.00	
	(1995-97) Passat®	Glow Plug	10 x 1.00	
	(1997-05) Golf®	Glow Plug	10 x 1.00	A
	(1997-05) Jetta® & Wagon	Glow Plug	10 x 1.00	
	(1998-05) New Beetle®	Glow Plug	10 x 1.00	
	2004 Touareg®	Glow Plug	10 x 1.00	
	Older vehicles with TDI	Injector	24 x 2.00	С

NOTE: U - Indicates that part 7 must be removed for these applications.

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PERFORMANCE TOOL, P.O. Box 88259 Tukwila, WA 98138

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