

Workshop Manual Volkswagen Transporter 1980 ►

Diesel injection and glow plug system

Edition 01.91

Supersedes Edition January 1985

The manual is divided into separate booklets which can be ordered individually and allocated on the shop floor as required.

This manual is valid for the Volkswagen Transporter with Diesel engine from the start of production (November 1980). It describes all the operations which require special instructions to ensure satisfactory work.

Layout of booklets

Each booklet has the contents listed according to Repair Groups to make it easy to find the information required.

The technical data follows the description of the repair operations. Each operation is preceded by an exploded view which also contains all the main repair instructions. This is supplemented, where necessary, by figures – which are referred to in the exploded view – giving details of the fitting positions of parts or showing special tools in use. If a definite sequence has to be followed when dismantling and assembling a component, the exploded view is followed by a description of the main steps of the work sequence. Any adjustments required are also explained.

Technical information should always be made available to all foremen and mechanics because compliance with the instructions given is essential to ensure vehicle roadworthiness and safety.

In addition, the normal safety precautions to be observed when working on motor vehicles are also applicable.

Workshop Bulletins

Workshop bulletins will be allocated to the individual booklets and should be filed at the back of the booklet concerned. To remind you that bulletins have been published, the manual pages should be marked by hand with the bulletin number as explained in the bulletin heading.

Fault finding

All instructions on Fault finding are filed in the appropriate binder.

Instructions on the elimination of current defects are given in the "Technical Service Handbook".

Contents

Contents according to Repair Groups

Rep.- Group	Contents	Page
23	Fuel system, Diesel injection	
	Servicing injection system	23-1
	● Removing and installing fuel filter (on vehicles ► 09.88)	23-5
	● Removing and installing fuel filter (on vehicles 09.88 ►)	23-7
	● Rules for cleanliness	23-9
	● Retrofitting fuel filter preheating	23-10
	● Removing electro-magnetic cut-off	23-18
	● Removing and installing fuel injection pump	23-19
	● Checking and adjusting injection pump timing	23-24
	● Checking valve timing	23-28
	● Stopping leaks from injection pump adapters	23-30
	● Adjusting idling speed and maximum engine speed (no load)	23-31
	● Removing and installing injectors	23-32
	● Servicing injectors	23-34
	● Injector parts	23-35
	● Checking injectors for condition of needle tip, breaking pressure and leakage	23-36
	Servicing fuel injection pump	23-39
	● Renewing injection pump throttle lever return spring	23-43
	● Renewing throttle lever bush in pump cover, pump cover gasket and O-ring for throttle lever shaft	23-46
	● Renewing volume adjustment screw O-ring	23-50
	● Renewing O-ring on injection timing cover	23-51
	● Renewing CSA shaft/cover O-ring	23-52

Rep.- Group	Contents	Page
28	Glow plug system	
	Checking glow plug system	28-1
	● Checking glow plug current draw with V.A.G 1315 A	28-1
	● Checking glow plugs	28-2
	● Glow plugs with burnt electrodes	28-4