

Workshop Manual Volkswagen Transporter.

2.0 litre L-Jetronic Engine
June 1979 Edition.

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 new Transporter from the start of production (June 1979). 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 operations and items to make it easy to find the information required. In the repair operations list, the special tools and workshop equipment required for each operation are given. This list also shows which tools have Audi alternative tools and vice versa.

The technical data is followed by a description of the repair operations. Where practical, each operation is preceded by an exploded view which also contains all the main repair instructions. This is supplemented, where necessary, by photographs — which are referred to in the exploded view — giving details of the fitting positions of parts or showing special tools in use.

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.

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.

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

General fault finding instructions are given in the workshop manual and in addition to this the following fault finding leaflets have been published:

- Carburetor engines
- L-Jetronic engine
- Automatic gearbox

Instructions on the elimination of current defects are given in the "Fault finding handbook".

Contents

REPAIR OPERATIONS AND SPECIAL TOOLS

Operation No.	Operation	Page	VW AUDI Special tools	Workshop equipment
10 01 05 . .	Engine, checking and adjusting	24		VW 1267, VW 1367 or V.A.G 2000 VW 1289 or VW 1387 Compression tester
10 01 19 . .	Engine, R + I	2	VW 785/1	Trolley jack with adaptor
10 01 37 . .	Engine, D + A	6	10-213 VW 185 VW 190 VW 191 VW 207c or 10-508 VW 215c or VW 802*) VW 387 3052	Universal piston ring tensioner Piston ring pliers Micrometer up to 100 mm Internal measuring appliance up to 100 mm Extractor 14.5–18.5 mm Valve adjusting spanner Oil filter spanner
	Mounting engine on repair stand	5	VW 307a	
10 19 02 . .	Compression, checking	24		Compression tester
10 29 19 . .	Cylinder seal R + I	15		Universal piston ring tensioner
10 35 20 . .	Bonded rubber mounting R + I	10		
13 10 02 . .	Pistons checking	15		Piston ring pliers Micrometer up to 100 mm Internal measuring appliance up to 100 mm
13 10 20 . .	Pistons R + I	15	VW 207c or 10-508	Universal piston ring tensioner
13 19 19 . .	Piston rings R + I	15		Piston ring pliers
13 40 02 . .	Conrods, checking bearing clearance	21		
13 48 15 . .	Crankshaft, adjusting axial clearance	10	10-213 VW 215c or VW 802*) VW 387	
13 48 55 . .	Crankshaft, renewing	21	VW 161a VW 207c VW 415a VW 428a VW 457 VW 471 VW 801	Extractor 14.5–18.5 mm e.g. Kukko 21/2 Support, e.g. Kukko 22/1
13 59 19 . .	Crankshaft oil seal (Flywheel end) R + I	10	10-213 VW 191 VW 215c or VW 802*) VW 387	

*) with Automatic gearbox



Operation No.	Operation	Page	VW AUDI Special tools	Workshop equipment
13 67 19 . .	Needle bearing in crankshaft, R + I	21	VW 207c	Extractor 14.5–18.5 mm e.g. Kukko 21/2 Support e.g. Kukko 22/1
13 74 19 . .	Crankshaft oil seal (pulley end) R + I	10	VW 185 VW 190	
13 76 19 . .	Belt pulley R + I	6		
13 78 19 . .	V belt R + I	6		
13 78 49 . .	V belt tensioning	6		
15 40 20 . .	Tappets, R + I	24		
15 40 68 . .	Tappets, bleeding	24		
15 44 20 . .	Push rod tubes, R + I	24	3052	Valve adjusting spanner
15 56 20 . .	Adjusting screws, R + I	24	3052	Valve adjusting spanner
15 70 19 . .	Cylinder head, R + I	24		Valve adjusting spanner
15 70 37 . .	Cylinder head, D + A	24	2037 VW 387	
15 70 41 . .	Cylinder head, repairing	24		Valve seat cutter Valve grinder
15 75 19 . .	Valve guides, R + I	24		VW 1224
15 82 19 . .	Cylinder head cover, R + I	24		
17 03 01 . .	Oil pressure checking	31		VW 1342
17 05 19 . . .	Oil pressure switch, R + I	31		
17 15 19 . .	Oil filler neck, R + I	31		
17 20 19 . .	Oil pump, R + I	31	VW 803	
17 40 01 . .	Oil cooler, checking	31	VW 661/2	
17 40 19 . .	Oil cooler, R + I	31		



Contents

Operation No.	Operation	Page	VW AUDI special tools	Workshop equipment
19 15 15 . .	Cooling air control thermostat, adjusting	34		
19 15 19 . .	Cooling air control thermostat, R + I	34		
19 20 19 . .	Fan housing R + I	34		

ALPHABETICAL LIST

	Page		Page
Auxiliary air valve, checking	42	Flange for oil filter, R + I	31
Air cleaner R + I	45	Fuel tank	36
Bearing clearance		Fuel filter R + I	36
● Camshaft checking	14	Fuel gauge sender, R + I	36
● Crankshaft checking	14	Fuel system	
CO content adjusting	47	● CO content, checking and adjusting	47
Capacities, engine	31	● Pressure regulator, checking	42
Cold start valve, checking	42	● Injectors, checking	42
compression pressures checking	24	● Cold start valve checking	42
Crankshaft		● Idling speed, checking and adjusting	42
● Removing and installing	19	● Overrun valve, checking	42
● Needle bearing R + I	21	● Thermotime switch, checking	42
● Oil seal (pulley end) R + I	10	● Auxiliary air valve, checking	42
● Oil seal (flywheel end) R + I	10	Fuel pump, R + I	36
Camshaft, R + I	19	Fan housing R + I	6
Conrods, R + I	21	Fan R + I	6
Control unit	48	Flywheel, R + I	10
Cylinders, R + I	15	Full throttle enrichment	42
Cylinder head		Gasket for cylinder head cover, renewing	10
● R + I	24	Idle speed checking and adjusting	42
● D + A	24	Ignition timing, adjusting	53
Distributor		Injectors, checking	42
● R + I	53	List of engines and information sources	1
● Centrifugal advance checking	53	Needle bearing R + I	21
● Data	53	Oil pressure checking	31
● Vacuum advance checking	53	Oil pressure switch, checking	31
Distributor drive shaft R + I	53	Oil filler neck, R + I	31
Drive plate for convertor R + I	10	Oil filter, R + I	31
Double relay, checking	49	Oil cooler, R + I, and checking	31
Dwell angle, checking and adjusting	53	Oil pump, R + I	31
EGR valve, checking	51	Oil seal	
Electronic control, repairing	48	● Crankshaft (pulley end) R + I	10
Engine		● Crankshaft (flywheel end) R + I	10
● R + I	2	Overrun valve, checking	42
● mounting on repair stand	5	Pistons, R + I	15
● D + A	6	Piston rings, R + I	15
● number	2	Push rod tubes, R + I	24
		Pressure regulator, checking	42
		Rocker arms, R + I	24
		Silencer, R + I	51
		Spark plugs, types	53

Contents

	Page
Tail pipe, R + I	51
Temperature sensor I, checking	45
Temperature sensor II, checking	42
Throttle controls, R + I	40
Thermo-time switch, checking	42
Technical data	1
Thermostat adjusting	34
Tappets, R + I	24
Valves, R + I	24
Valve springs, R + I	24
Valve guides, R + I	24
Valve seats, Reworking	24
Valve gear	
• Adjusting	24
• D + A	24
V belt R + I	6