

Suspension, Wheels, Brakes, Steering

00 - General, Technical data

Suspension, Wheels, Brakes, Steering

Technical data

Steering

Brakes

Wheels, tires

40 - Front suspension

Front Wheel Suspension, Shafts and Axle

Front suspension, servicing (Base suspension)

Sub-frame, stabilizer bar and control arm (Base suspension)

Ball joint, checking (Base and Plus suspension)

Reworking cap nut in side member (Base and Plus suspension)

Wheel bearing, suspension strut and drive shaft, removing and installing (Base running gear)

Front suspension strut, servicing (Base and Plus suspension)

Front suspension, servicing (Plus suspension)

Sub-frame, stabilizer bar and control arm, removing and installing (Plus suspension)

Ball joint, removing and installing (Plus running gear)

Wheel bearing and suspension strut, removing and installing (Plus suspension)

Drive shaft, removing and installing (Plus running gear)

Drive shaft, repairing

Outer constant velocity joint, checking

Inner constant velocity joint, checking

Drive shaft with tripod joint, repairing

Drive axle with triple-rotor joint, removing and installing

Drive axle with triple-rotor joint, servicing

Triple-rotor joint, disassembling

Triple-rotor joint, assembling

42 - Rear suspension

Rear Wheel Suspension, Shafts and Axle

Rear axle, servicing (vehicles with front wheel drive)

Reworking cap nut in side member (front wheel drive vehicles)

Suspension strut, disassembling and assembling (front wheel drive vehicles)

Wheel bearings, servicing

Drum brakes (front wheel drive vehicles), wheel bearings, servicing

Wheel bearings, servicing - disc brakes (front wheel drive vehicles)

Rear axle, servicing (four wheel drive vehicles)

Rear drive shafts, servicing

Reworking cap nut in side member (four wheel drive vehicles)

Suspension strut, disassembling and assembling (four wheel drive vehicles)

Wheel bearings, servicing - disc brakes (four wheel drive vehicles)

44 - Wheels, Tires, Wheel alignment

Vehicle alignment

Test requirements:

Vehicle alignment specifications (front wheel drive vehicles)

Vehicle alignment specifications (four wheel drive vehicles)

Front wheel camber, adjusting

Calculating the direction of travel:

45 - Anti-lock brake system

Anti-locking Brake System (ABS) and Anti-locking Brake System with Electronic Differential Lock (ABS/EDL) Teves 04

Notes for repair work on ABS, ABS/EDL

Control module, removing and installing

Wheel speed sensor and rotor for speed sensor, removing and installing

Anti-lock Brake System (ABS) and ABS with Electronic Differential Lock (ABS/EDL), Teves 20 GI

Safety precautions

ABS, ABS/EDL hydraulic unit, vacuum brake booster and brake master cylinder (Teves 20 GI), servicing

ABS hydraulic unit and ABS control module (Teves 20 GI), removing and installing

Brake hydraulic system, bleeding and filling

Assembly overview - hydraulic unit, brake servo/brake master cylinder

Hydraulic unit, removing and installing

Brake Pedal Position Sensor, removing and installing

46 - Brakes - Mechanical components

Front brakes, servicing (Girling caliper)

Brake pads, removing and installing

Front brakes, servicing (Teves/Ate)

Brake pads, removing and installing

Rear wheel brakes, servicing (drum brakes)

Brake shoe adjustment, releasing

Rear wheel brakes, servicing

Brake shoes, removing and installing

Parking brake, adjusting (drum brakes)

Rear wheel brakes, servicing (disc brakes)

Girling rear wheel disc brakes (front and four wheel drive vehicles)

Brake pads, removing and installing

Parking brake, adjusting (disc brakes)

Parking brake lever assembly overview

Brake pedal/brake servo, removing and installing

Brake pedal, removing and installing

Brake Light Switch, adjusting

47 - Brakes - Hydraulic components

Assembly overview: brake master cylinder/brake servo

Girling front brake caliper, servicing

Front brake caliper pistons, removing and installing

Front brake caliper, servicing (Teves/Ate)

Rear brake caliper, servicing

Rear brake caliper piston, removing and installing

Pre-bleeding brake caliper

Brake pressure regulator, checking and adjusting

Vehicles without ABS, vehicles with ABS, ABS/EDS, Teves 04

Load dependent brake pressure regulator specifications

Adjusting regulator

Brake system, bleeding

Brake system, bleeding (vehicles with and without ABS, ABS/EDL)

Brake system, bleeding (with pressure bleeder VAS 5234)

Brake system, bleeding (without pressure bleeder)

48 - Steering

Steering

Assembly overview: steering column, column tube, steering wheel and airbag steering wheel
Airbag unit, removing and installing
Airbag steering wheel, removing and installing
Airbag Spiral Spring, removing and installing
Column tube for height adjustable steering wheel, removing and installing
Pump delivery pressure, checking
Power steering gear, removing and installing
Assembly overview: power assisted steering box (TRW)
Power steering gear, adjusting (TRW)
Power steering gear, disassembling and reassembling (TRW)
Power steering gear, disassembling
Inner sealing ring for toothed rod, pulling out
Checking toothed rod for scoring
Sealing ring on toothed rod, replacing
Sealing rings, installing on toothed rod piston
Power steering gear, assembling
Inner sealing ring for toothed rod, installing
Toothed rod, installing in housing
Adhesive tape, applying
Power steering gear, adjusting with new toothed rod
Assembly overview: power steering gear (ZF)
Power steering gear, adjusting (ZF)
Power steering gear, disassembling and reassembling (ZF)
Power steering gear, disassembling
Checking toothed rod for scoring
Sealing ring on toothed rod, replacing
Power steering gear, assembling
Tie rods, removing and installing (power steering gear - TRW and ZF)
Left-hand tie rod length, checking and adjusting
Assembly overview: vane pump, reservoir and hydraulic lines (vehicles with 4-Cyl. engines)
Assembly overview: Hydraulic lines, reservoir (vehicles with 4-Cyl. engines)
Power steering vane pump, removing and installing (vehicles with 4-Cyl. engines)
V-belts, tensioning (4-Cyl. engines)
Assembly overview: Pressure and cooling lines (vehicles with VR6 engine)
Power steering vane pump, removing and installing (vehicles with VR6 engine]

Suspension, Wheels, Brakes, Steering

Technical data

Model		Sedan/Wagon and syncro Base Suspension ¹⁾	Sedan/Wagon and syncro Base Suspension ²⁾
Wheelbase	mm	2625	2625
Track, unladen	mm	1479 front, wheel offset 38 1422 rear, wheel offset 38 1485 front, wheel offset 35 1428 rear, wheel offset 35 1489 front, wheel offset 33 ³⁾ 1432 rear, wheel offset ³⁾	1485 front, wheel offset 35 1441 rear, wheel offset 35 1489 front, wheel offset 33 ³⁾ 1445 rear, wheel offset 33 ³⁾
Turning circle	m	10.7	11.5
Steering roll radius (negative)	mm	0.5 with offset 35 3.5 with offset 38	12 with offset 35 15 with offset 38
Wheel lock angle	inner outer	42 ° 36 °	37 ° 45' 34 ° 30'

1) Base Suspension, explanation ⇒ [Page 40-1](#)

2) Plus Suspension, explanation ⇒ [Page 40-26](#)

3) Syncro

Steering

Model	Sedan/Wagon and syncro	
Suspension version	Base Suspension	Plus Suspension
Steering gear	Power assisted steering gear	Power assisted steering gear
Steering wheel turns from lock to lock	3.33	3.14
Overall steering ratio	17.5:1	16.4:1
Wheel alignment specifications ⇒ Page 44-2		

Brakes

Model		Sedan/Wagon
Output	kW (hp)	55 (75)
Brake master cylinder	mm dia.	22.2 (Vehicles with ABS: 23.81)
Brake servo	dia. in inches	10
Front brake caliper, piston diameter	mm	54
Front brake disc	mm dia.	256
Front brake disc, thickness	mm	13
Pad thickness	mm	14
Rear brake drum	mm dia.	230
Wheel cylinder	mm dia.	20.64
Lining thickness	mm	5
Lining width	mm	40

Model		Sedan/Wagon	
Output	kW (hp)	85 (115)	128 (172)
Brake master cylinder	mm dia.	23.81	
Brake servo	dia. in inches	10	
Front brake caliper dia.	mm	54	
Front brake disc	mm dia.	256	288
Front brake thickness	mm	20	13
Pad thickness	mm	11	14
Rear brake caliper dia.	mm	38	
Rear brake disc	mm dia.	226	
Rear brake disc, thickness	mm	10	
Pad thickness	mm	12	

Model		Passat syncro	
Output	kW (hp)	85 (115)	128 (172)
Brake master cylinder	mm dia.	23.81	
Brake servo	dia. in inches	10	
Front brake caliper dia.	mm	54	
Front brake disc	mm dia.	256	288
Front brake disc thickness	mm	20	25
Pad thickness	mm	11	14
Rear brake caliper dia.	mm	38	
Rear brake disc	mm dia.	239	
Rear brake disc, thickness	mm	10	
Pad thickness	mm	12	

Wheels, tires

Engine output (kW)	Model	Tire size ¹⁾	Wheel	Offset	Hole pattern
55 gas	Sedan/Wagon	185/65 R 14 86 S	6 J x 14	38	4-hole
55, 66 - Diesel		195/60 R 14 86 S	6 J x 14	38	
		205/50 R 15 86 S	6 J x 15	38	
		185/65 R 14 85 Q (M+S)	6 J x 14	38	
		195/60 R 14 85 Q (M+S)	6 J x 14	38	
		205/50 R 15 85 Q (M+S)	6 J x 15	38	
55	Sedan/Wagon	T 125/70 R 15 95 M (Temp. spare)	3 1/2 J x 15	40	

¹⁾ Tire pressures ⇒ Sticker on vehicle

Engine output (kW)	Model	Tire size ¹⁾	Wheel	Offset	Hole pattern
85 kW	Sedan/Wagon	185/65 R 14 86 H	6 J x 14	38	4-hole
		195/60 R 14 86 H	6 J x 14	38	
		205/50 R 15 86 H	6 J x 15	35	
		185/65 R 14 85 Q (M+S)	6 J x 14	38	
		195/60 R 14 85 Q (M+S)	6 J x 14	38	
		205/50 R 15 85 Q (M+S)	6 J x 15	35	
85 kW	Sedan/Wagon	T 125/70 R 15 95 M (Temp. spare)	3 1/2 J x 15	40	
128 kW	Sedan/Wagon	205/50 ZR 15 86 W	6 J x 15	35	
		195/55 R 15 85 T (M+S)	6 J x 15	35	
		195/55 R 15 85 T (M+S)	6 1/2 J x 15	33	
		205/50 R 15 85 T (M+S)	6 J x 15	35	
128 kW	Sedan/Wagon	T 125/70 R 16 95 M (Temp. spare)	3 1/2 J x 16	38	

¹⁾ Tire pressures ⇒ Sticker on vehicle