

Workshop Manual Octavia II 2004 ➤ Octavia II 2010 ➤

Brake systems

Edition 11.2017







List of Workshop Manual Repair Groups

Repair Group

00 - Technical data

45 - Anti-lock brake system

46 - Brakes - mechanism

47 - Brakes - hydraulics





Technical information should always be available to the foremen and mechanics, because their careful and constant adherence to the instructions is essential to ensure vehicle road-worthiness and safety. In addition, the normal basic safety precautions for working on motor vehicles must, as a matter of course, the observed to commercial purposes, in part or in whole, is not permitted

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Contents

00 - 7	Techr	nical data	1
	1	Brakes	1
•	1.1	Brake variants and their assignment	1
•	1.2	Brake fluid	8
•	1.3	Brake inspection	8
45 - /	Anti-lo	ock brake system	10
	1	Antilock braking system (ABS)	10
	1.1	General instructions for ABS	10
	1.2	Distinguishing features of the ABS systems	13
	1.3	Safety precautions, basic information on fault finding and on repairing	14
•	1.4	Required technical information	14
	2	Electrical/electronic components and fitting locations ABS Mark 70 (ABS/TCS)	15
2	2.1	Electrical/electronic components and fitting locations ABS Mark 70 (ABS/TCS) for vehicles up to MY 2008	15
2	2.2	Electrical/electronic components and fitting locations ABS Mark 70 (ABS/TCS) for vehicles as of MY 2009	17
2	2.3	Electrical/electronic components and fitting locations ABS Mark 70 (ABS/TCS) for vehicles as of MY 2011	19
;	3	Electrical/electronic components and fitting locations ABS Mark 60/Mark 60 EC (ABS/EDL/TCS/ESP (ESC))	21
;	3.1	Electrical/electronic components and fitting locations ABS Mark 60 for vehicles up to MY 2008	21
;	3.2	Electrical/electronic components and fitting locations Mark 60 EC for vehicles as of MY 2009	24
(3.3	Electrical/electronic components and fitting locations ABS Mark 60 EC/PYA for vehicles as of MY 2011	27
4	4	Indication of faults by means of warning lights	29
4	4.1	Warning lights - for vehicles up to MY 2008	29
4	4.2	Warning lights - for vehicles as of MY 2009	33
4	4.3	Warning lights - for vehicles as of MY 2011	37
	5	Hydraulic Control Unit, Brake Servo Unit/Master Brake Cylinder ABS Mark 70 (ABS/TCS)	42
ı	5.1	Summary of components - left-hand drive	4 2
	5.2	Connect the brake lines from the master brake cylinder to the hydraulic unit - left-hand	
		drive	45
į	5.3	Removing and installing ABS control unit J104 ABS hydraulic unit N55 - left -hand drive vehicles	45
	5.4	Disconnecting control unit from hydraulic unit - Left-hand drive	51
į	5.5ected hiess auth	Attaching control unit to hydraulic unit - Left-hand drive	52
		Summary of components #right-hand drivey \$KODA AUTO A. S.®	53
į	5.7	Connecting the brake lines from the master brake cylinder to the hydraulic unit - right-hand drive	54
į	5.8	Removing and installing ABS control unit J104 / ABS hydraulic unit N55 - right-hand drive	55
į	5.9	Separating the control unit from the hydraulic unit - Right-hand drive	59
	5.10	Attaching control unit to hydraulic unit - Right-hand drive	60
	6	Hydraulic control unit, brake servo unit/master brake cylinder ABS Mark 60/Mark 60 EC (ABS/EDL/TCS/ESP (ESC))	61
6	6.1	Summary of components ABS Mark 60 - for left-hand drive up to MY 2008	61
	6.2	Summary of components ABS Mark 60 EC - for left-hand drive as of MY 2009	64
	-		٠.
(6.3	Connecting the brake lines from the master brake cylinder to the ABS hydraulic unit - left-hand drive	66

	6.5	Disconnecting control unit from hydraulic unit - Left-hand drive	
	6.6	Attaching control unit to hydraulic unit - Left-hand drive	
	6.7 6.8	Summary of components ABS Mark 60 EC (ABS/EDL/TCS/ESP) - right-hand drive Connecting the brake lines from the master brake cylinder to the ABS hydraulic unit - right-	
	6.9	hand drive	75
	0.0		
	6.10 6.11	Separating the control unit from the hydraulic unit - Right-hand drive	
	7	Removing and Installing parts of the ABS System on the front and rear axle	
	7.1	Removing and installing parts of the ABS system on the front axle	
	7.2	Removing and installing parts of the ABS system on the rear axle (front-wheel drive)	
	7.3	Removing and installing parts of the ABS system on the rear axle (four-wheel drive)	88
	8	Removing and installing parts of the ESP (ESC) system	
	8.1	Removing and installing sensor unit for ESP (ESC) G419	
	8.2	Removing and installing steering angle sender G85	93
46 -	Brake	es - mechanism	94
. •	1	Repairing front wheel brake	
	1.1	Changing the brake pads of the front brake - Mounting instructions	
	1.2	Repairing front wheel brake, floating caliper disc brake FS-III	
	1.3	Removing and installing brake pads, floating caliper disc brake FS-III	
	1.4	Removing and installing brake caliper, floating caliper disc brake FS-III	
	1.5	Repairing front wheel brake, brake caliper FN3	
	1.6	Removing and installing brake pads, brake calliper FN3	
	1.7	Removing and installing brake caliper, brake caliper FN3	
	2 2.1	Repairing rear brake	
	2.1		
	2.3	Repairing rear brake CII 41 (vehicles with front and four-wheel drive) inted	114
	2.4	Removing and installing brake caliper CII 41	117
	2.5	Repairing rear brake CI 38 (vehicles with front-wheel drive)	
	2.6	Removing and installing brake pads CI 38	
	2.7	Removing and installing brake caliper CI 38	
	2.8 2.9	Repairing rear brake Bosch BIRIII (vehicles with front and four-wheel drive)	
	2.9	Removing and installing brake caliper Bosch BIRIII	
	3	Handbrake	
	3 .1	Handbrake lever - Summary of components	
	3.2	Setting the hand-brake	
	3.3	Removing and installing the hand-brake cable	
	4	Brake pedal - left-hand drive	135
	4.1	Summary of components of brake pedal	
	4.2	Separating the brake pedal from the brake servo unit and clipping onto brake servo unit	407
	4.3	Removing and installing brake pedal	
	4.3 4.4	Removing and installing bracket	
	4.5	Setting, removing and installing the brake light switch F and brake pedal switch F47 up to MY 10.2005	
	4.6	Removing and installing brake light switch F and brake pedal switch F47 as of 11/2005	139
	5	Brake pedal - right-hand drive	143
	5.1	Summary of components of brake pedal	
	5.2	Separating the brake pedal from the brake servo unit and clipping onto brake servo unit	
	5 0		
	5.3	Removing and installing brake pedal	
	5.4	Removing and installing bearing bracket	14/

	5.5	Setting, removing and installing the brake light switch F and brake pedal switch F47 up to MY 10.2005	149
	5.6	Removing and installing brake light switch F and brake pedal switch F47 as of 11/2005 $$	
47	- Brake	es - hydraulics	153
	1	Repairing front brake caliper	153
	1.1	Repairing the brake caliper FS-III	153
	1.2	Removing and installing the piston of the brake caliper of the FS-III brake	
	1.3	Repairing brake caliper FN3	
1	1.4	Removing and installing piston of brake caliper FN3	156
	2	Repairing rear brake caliper	
	2.1	Repairing brake caliper CII 41	
	2.2	Repairing brake caliper CI 38	
	2.3	Removing and installing the brake caliper piston CII 41 or CI 38	
	2.4	Repairing the brake caliper Bosch BIRIII	
	2.5 2.6	Removing and installing the brake caliper piston Bosch BIRIII	
	3	Checking the master brake cylinder for tightness	
	4	Bleeding brake system	
	4.1 4.2	Bleeding the brake system of air with the brake filling and bleeding device Bleeding the brake system of air without using the brake filling and bleeding device	
	4.2	Change brake fluid	
		Summary of Components: brake servo unit/master brake cylinder	
	5 5.1	Summary of components - left-hand drive	
	5.2	Summary of components - right-hand drive	
	5.3	Fitting position of the cap from the brake fluid reservoir	
	5.4	Vacuum pump for brake servo unit (vehicles with diesel engines)	
rotacted by	5.5	Brake vacuum pump V192 (vehicles with petrol engines)	
	se 5 :6ŠKO		
with respec	5.7 corr	Checking the non-return valve varies or accept any liability checking the non-return valve varies or accept any liability checking the non-return valve varies or accept any liability checking vacuum system Checking vacuum system	181
	5.8	Removing and installing the pressure sensor for the brake servo unit G294	185
	6	Master brake cylinder	186
	6.1	Removing and installing master brake cylinder - left-hand drive	
	6.2	Removing and installing master brake cylinder - right-hand drive	189
	7	Brake servo	
	7.1	Check function	
	7.2	Removing and installing brake servo unit - left-hand drive	
	7.3	Removing and installing brake servo unit - right-hand drive	
	8	Brake line	
	8.1	Repairing brake lines	
	8.2	Flaring tool - summary of components	
	8.3	Work instruction	201



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00 – Technical data

1 Brakes

(SRL001140; Edition 11.2017)

Brake variants and their assignment <u>⇒ page 1</u>

Brake fluid <u>⇒ page 8</u>

Brake inspection <u>⇒ page 8</u>

1.1 Brake variants and their assignment

Engine	1.2 l/77 kW	1.4 l/55 k\	.4 I/55 kW 1.4 I/5		1.4 1/90) kW	
Engine code letters:	CBZB	BCA		BUD, CGGA	CAX	Ά	
Master brake cylin- mm der - \varnothing				22.2			
Brake servo unit - Ø Inch	Left-hand drive:		1 6			10	
	Right-hand drive:			->//	7"/8" - tande		
◆ Front disc brake:							
Front brake caliper (type denomination)	FS-III	FS-III		FS-III	FS-I	II	
Front brake caliper, $$ mm piston - \varnothing	Protect 54,0 opyright. unless authorised by ŠK	Copying for 54 /2 ODA AUTO A. S	O or comme SKODA AL	rcial purpos 54:0 part or in wh	ole, is not p 54th		
Front brake disc – Ø mm	280.0	280	.0	280.0	280.	0	
Brake disc, thickness mm	22.0	22.	0	22.0	22.0)	
Brake disc, minimum mm thickness	19.0	19.	0	19.0	19.0		
Pad thickness with- mm out supporting plate	14.0	14.0		14.0	14.0		
Minimum pad thick- mm ness without supporting plate	2.0	2.0		2.0	2.0		
♦ Rear disc brake:							
Rear brake caliper (type denomination)	CI 38	CI 38	CII 41	CI 38	CII 41 ¹⁾	Bosch BIRIII ²⁾	
Rear brake caliper, $$ mm piston - \varnothing	38.0	38.0	41.0	38.0	41.0	38.0	
Rear brake disc – Ø mm	253.0	255.0	260.0	255.0 ³⁾ / 253.0 ⁴⁾	260.0 ³⁾ / 256.0 ⁴⁾	272.0	
Brake disc, thickness mm	10.0	10.0	12.0	10.0	12.0	10.0	
Brake disc, minimum mm thickness	8.0	8.0	10.0	8.0	10.0	8.0	
Pad thickness with- mm out supporting plate	11.0	11.0	11.0	11.0	11.0	11.0	
Minimum pad thick- mm ness without sup- porting plate	2.0	2.0	2.0	2.0	2.0	2.0	

¹⁾ valid for vehicles up to CW 44/2009

²⁾ valid for vehicles as of CW 45/2009

³⁾ valid for vehicles up to 03.2009

4) valid for vehicles as of 04.2009

Engine		1.6 l/75 kW			1.6 ltr./85 kW FSI	1,8 ltr./112 kW TFSI	
Engine code letters:		BGU, BSE, B CMXA	SF, CCSA, C	HGA,	BLF	CE	AB
Master brake cylinder -	mm			22.2			
Brake servo unit - Ø	Inch	Left-hand driv	/e:				10
		Right-hand dr	rive:			7"/8	8" - tandem
◆ Front disc brake:							
Front brake caliper (typnomination)	e de-	FS-III			FS-III	FI	N3
Front brake caliper, piston - Ø	mm		54.0		54.0	54	1.0
Front brake disc – Ø	mm		280.0		280.0	28	8.0
Brake disc, thickness	mm		22.0		22.0	25	5.0
Brake disc, minimum thickness	mm		19.0		19.0	22.0	
Pad thickness without supporting plate	mm		14.0		14.0	14.0	
Minimum pad thick- ness without support- ing plate	mm		2.0		2.0	2	.0
♦ Rear disc brake:							
Rear brake caliper (typ- nomination)	e de-	CI 38	CII 41 ¹⁾	Bosch BIRIII ²⁾	CII 41	CII 41 ¹⁾	Bosch BIRIII ²⁾
Rear brake caliper, piston - \varnothing	mm	38.0	41.0	38.0	41.0	41.0	38.0
Rear brake disc – Ø	mm	255.0 ³⁾ / 253.0 ⁴⁾	260.0 ³⁾ / 256.0 ⁴⁾	272.0	260.0	260.0 ³⁾ / 256.0 ⁴⁾	272.0
Brake disc, thickness	mm	10.0	12.0	10.0	12.0	12.0	10.0
Brake disc, minimum thickness	mm	8.0	10.0	8.0	10.0	10.0	8.0
Pad thickness without supporting plate	mm	11.0	11.0	11.0	11.0	11.0	11.0
Minimum pad thick- ness without support- ing plate	mm	2.0	2.0	2.0	2.0	2.0	2.0

¹⁾ valid for vehicles up to CW 44/2009

²⁾ valid for vehicles as of CW 45/2009 pyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by ŠKODA AUTO A. S. ŠKODA AUTO A. S. does not guarantee or accept any liability 3) valid for vehicles up to 03 2000.

³⁾ valid for vehicles up to 03.2009

⁴⁾ valid for vehicles as of 04.2009

Engine		1,8 ltr./118 kW TFSI		r./118 kW TFSI 2.0 ltr./110 kW FSI		2,0 ltr./14 TFSI		
Engine code letters:		BZB, CDAA	١	BLR, BLY, BVZ, BVY	BLX, BVX	BWA, C	CZA	
Master brake cylinder - ∅	mm		2	2.2		23.8		
Brake servo unit - Ø	Inch	Left-hand d	rive:				10	
		Right-hand	drive:			7"/8" - ta	ındem	
◆ Front disc brake:								
Front brake caliper (typ nomination)	e de-	FN3		FN3	FN3	FN3		
Front brake caliper, piston - ∅	mm	54	1.0	54.0	54.0	54.0		
Front brake disc – Ø	mm	28	8.0	288.0	288.0	312.0)	
Brake disc, thickness	mm	25	5.0	25.0	25.0	25.0		
Brake disc, minimum thickness	mm	22	2.0	22.0	22.0	22.0		
Pad thickness without supporting plate	mm	14	l.0 -	14.0	14.0	14.0		
Minimum pad thick- ness without support- ing plate	mm	2.0		2.0	2.0	2.0		
♦ Rear disc brake:			-					
Rear brake caliper (type nomination)	e de-	CII 41 ¹⁾	Bosch BIRIII ²⁾	CII 41	CII 41	CII 41 ¹⁾	Bosc h BIR- III ²⁾	
Rear brake caliper, piston - \varnothing	mm	41.0	38.0	41.0	41.0	41.0	38.0	
Rear brake disc – ∅	mm	260.0 ³⁾ / 256.0 ⁴⁾	272.0	260.0	260.0	286.0 ³⁾ / 282.0 ⁴⁾	272. 0	
Brake disc, thickness	mm	12.0	10.0	12.0	12.0	12.0	10.0	
Brake disc, minimum thickness	mm	10.0	8.0	10.0	10.0	10.0	8.0	
Pad thickness without supporting plate	mm	11.0	11.0	11.0	11.0	11.0	11.0	
Minimum pad thick- ness without support- ing plate	mm	2.0	2.0	2.0	2.0	2.0	2.0	

¹⁾ valid for vehicles up to CW 44/2009

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²⁾ valid for vehicles as of CW 45/2009

³⁾ valid for vehicles up to 03.2009

⁴⁾ valid for vehicles as of 04.2009

Engine	1.9 ltr./77 kW TDI-PD with four-wheel drive ¹⁾	1.9 ltr./77 kW TDI- PD with front-wheel- drive and automatic gearbox DSG ¹⁾	with front-	kW TDI-PD wheel-drive al gearbox ¹⁾
Engine code letters:	BKC, BXE, BLS	BKC, BXE	BJB, Bł	C, BXE
Master brake cylinder - Ø mm		22.2		
Brake servo unit - Ø Inch	Left-hand drive:			10
	Right-hand drive:		7"/8	8" - tandem
♦ Front disc brake:				
Front brake caliper (type denomination)	FN3	FN3	FS	S-III
Front brake caliper, piston - Ø mm	54.0	54.0	54	1.0
Front brake disc – Ø mm	288.0	288.0	280.0	
Brake disc, thickness mm	25.0	25.0	22.0	
Brake disc, minimum thickness mm	22.0	22.0	19.0	
Pad thickness without supporting mm plate	14.0	14.0	14	4.0
Minimum pad thickness without sup- mm porting plate	2.0	2.0 2.0 2.0		.0
♦ Rear disc brake:	-2//			
Rear brake caliper (type denomination)	CII 41	CII 41	CI 38	CII 41
Rear brake caliper, piston - Ø mm	41.0	41.0	38.0	41.0
Rear brake disc – Ø mm	260.0	260.0	255.0	260.0
Brake disc, thickness opying for private or commicia	purposes, imperor in whole	, is not permited 0	10.0	12.0
Brake disc, minimum thickness mation mm do	cument. Cop 1 10 h0by ŠKOD/	AUTO Á. S¶O.O	8.0	10.0
Pad thickness without supporting mm plate	11.0	11.0	11.0	11.0
Minimum pad thickness without sup- mm porting plate	2.0	2.0	2.0	2.0

¹⁾ valid up to 04.2006

Engine		1.6 ltr./77 kW TDI CR	1.9 ltr./77 kW TDI- PD with four-wheel drive ¹⁾	1.9 ltr./77 kW TDI-PD with front-wheel-drive and automatic gear- box DSG ¹⁾
Engine code letters:		CAYC	BXE, BLS	BXE, BLS
Master brake cylinder - Ø	mm		22.2	
Brake servo unit - ∅	Inch	Left-hand drive:		10
		Right-hand drive:	7"/8" - tandem	
◆ Front disc brake:		•		
Front brake caliper (type denor tion)	mina-	FS-III	FS-III	FS-III
Front brake caliper, piston - Ø	mm	54.0	54.0	54.0
Front brake disc – Ø	mm	280.0	280.0	280.0
Brake disc, thickness	mm	22.0	22.0	22.0
Brake disc, minimum thickness	mm	19.0	19.0	19.0
Pad thickness without supporting plate	mm	14.0	14.0	14.0

Engine	1.6 ltr./77 kW TDI CR		1.9 ltr./77 kW TDI- PD with four-wheel drive ¹⁾		1.9 ltr./77 kW TDI-PD with front-wheel-drive and automatic gear- box DSG ¹⁾
Engine code letters:	CA	YC	BXE, BLS		BXE, BLS
Minimum pad thickness with- mm out supporting plate	2	.0	2.0		2.0
♦ Rear disc brake:				Λ	
Rear brake caliper (type denomination)	CII 41 ²⁾	Bosch BIRIII ³⁾	CII 41 ²⁾	Bosch BIRIII ³⁾	CI 38
Rear brake caliper, piston - Ø mm	41.0	38.0	41.0	38.0	38.0
Rear brake disc – \varnothing mm	256.0	272.0	260.0 ⁴⁾ / 256.0 ⁵⁾	272.0	255.0 ⁴⁾ / 253.0 ⁵⁾
Brake disc, thickness mm	12.0	10.0	12.0	10.0	10.0
Brake disc, minimum thickness mm	10.0	8.0	10.0	8.0	8.0
Pad thickness without support- mm ing plate	11.0	11.0	11.0	11.0	11.0
Minimum pad thickness without supporting plate	2.0	2.0	2.0	2.0	2.0

¹⁾ valid as of 05.2006

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ő		1.9 ltr./77 kW TDI-PD with front-wheel-drive and manual gearbox ¹⁾	PD		2.0 ltr./100 kW TD PD with front-wheel- drive and automat gearbox DSG	
Engine code letters:		BJB, BKC, BXE, BLS	AZV		AZ	ZV
Master brake cylinder - Ø	mm		22.	.2		
Brake servo unit - Ø	Inch	Left-hand drive:				10
		Right-hand drive:			7"/8	" - tandem
◆ Front disc brake:						
Front brake caliper (type denomination)		FS-III	FN3		FN3	
Front brake caliper, piston - \varnothing	mm	54.0	54	.0	54.0	
Front brake disc – ∅	mm	280.0	288	8.0	288.0	
Brake disc, thickness	mm	22.0	25	5.0	25	5.0
Brake disc, minimum thickness	mm	19.0	22	2.0	22	2.0
Pad thickness without supporting plate	mm	14.0	14	.0	14.0	
Minimum pad thickness with- out supporting plate	mm	2.0	2.0		2.0	
♦ Rear disc brake:						
Rear brake caliper (type denon tion)	nina-	CI 38	CII 41 ²⁾	Bosch BIRIII ³⁾	CII 41 ²⁾	Bosch BIRIII ³⁾

²⁾ valid for vehicles up to CW 44/2009

³⁾ valid for vehicles as of CW 45/2009

⁴⁾ valid for vehicles up to 03.2009

⁵⁾ valid for vehicles as of 04.2009

Engine	1.9 ltr./77 kW TDI-PD with front-wheel-drive and manual gearbox 1	PD		2.0 ltr./100 kW TDI PD with front-wheel- drive and automati- gearbox DSG	
Engine code letters:	BJB, BKC, BXE, BLS	AZV		AZ	ZV
Rear brake caliper, piston - Ø mn	38.0	41.0	38.0	41.0	38.0
Rear brake disc – Ø mn	255.0 ⁴⁾ / 253.0 ⁵⁾	260.0 ⁴⁾ / 256.0 ⁵⁾	272.0	260.0 ⁴⁾ / 256.0 ⁵⁾	272.0
Brake disc, thickness mn	10.0	12.0	10.0	12.0	10.0
Brake disc, minimum thickness mn	8.0	10.0	8.0	10.0	8.0
Pad thickness without support- mn ing plate	11.0	11.0	11.0	11.0	11.0
Minimum pad thickness with- mn out supporting plate	2.0	2.0	2.0	2.0	2.0

¹⁾ valid as of 05.2006

 $^{^{5)}}$ valid for vehicles as of 04.2009

Engine		with front-wh	2.0 ltr./103 kW TDI-PD with front-wheel-drive and automatic gearbox DSG		2.0 ltr./103 kW TDI-PD	
Engine code letters:		BKD,	ВММ	BKD	, BMM	BMN
Master brake cylinder - ∅	mm		22.	.2		23.8
Brake servo unit - ∅	Inch	Left-hand driv	/e:			10
		Right-hand dr	ive:		7"/8	3" - tandem
◆ Front disc brake:			×.			
Front brake caliper (type denon tion)	nina-	F1	И3	F	N3	FN3
Front brake caliper, piston - Ø	mm	54	1.0	54.0		54.0
Front brake disc – Ø	mm	28	288.0		288.0	
Brake disc, thickness	mm	25	5.0	25.0		25.0
Brake disc, minimum thickness	mm	22	2.0	22.0		22.0
Pad thickness without supporting plate	mm	14	1.0	1-	4.0	14.0
Minimum pad thickness with- out supporting plate	mm	2	.0	2	2.0	2.0
Rear disc brake:						
Rear brake caliper (type denomition)	nina-	CII 41 ¹⁾	Bosch BIR-	CII 41 ¹⁾	Bosch BIR- III ²⁾	CII 41
Rear brake caliper, piston - Ø	mm	41.0	38.0	41.0	38.0	41.0
Rear brake disc – Ø	mm	260.0 ³⁾ / 256.0 ⁴⁾	272.0	260.0 ³⁾ / 256.0 ⁴⁾	272.0	286.0
Brake disc, thickness	mm	12.0	10.0	12.0	10.0	12.0
Brake disc, minimum thickness	mm	10.0	8.0	10.0	8.0	10.0

²⁾ valid for vehicles up to CW 44/2009

³⁾ valid for vehicles as of CW 45/2009

⁴⁾ valid for vehicles up to 03.2009

Engine		kW TDI-PD eel-drive and earbox DSG	2.0 ltr./103	kW TDI-PD	2.0 ltr./ 125 kW TDI-PD
Engine code letters:	BKD,	ВММ	BKD	, BMM	BMN
Pad thickness without support- mm ing plate	11.0	11.0	11.0	11.0	11.0
Minimum pad thickness with- mm out supporting plate	2.0	2.0	2.0	2.0	2.0

¹⁾ valid for vehicles up to CW 44/2009

⁴⁾ valid for vehicles as of 04.2009

Engine	2.0 ltr./125	kW TDI CR	2.0 I/103 kW TDI CR	2.0 l/81 kW TDI CR	
Engine code letters:	CE	:GA	CFHC, CLCB	CLCA	
Master brake cylinder - Ø mm	23	3.8	22.2	22.2	
Brake servo unit - Ø Inch	Left-hand o	lrive:		10	
	Right-hand	drive:		7"/8" - tandem	
◆ Front disc brake:					
Front brake caliper (type denomination)	FI	N3	FN3	FS-III	
Front brake caliper, piston - Ø mm	54	4.0	54.0	54.0	
Front brake disc – Ø mm	31	2.0	288.0	280.0	
Brake disc, thickness mm	25	5.0	25.0	22.0	
Brake disc, minimum thickness mm	22	2.0	22.0	19.0	
Pad thickness without support- mm ing plate	14	4.0	14.0	14.0	
Minimum pad thickness with- mm out supporting plate	2	.0	2.0	2.0	
♦ Rear disc brake:					
Rear brake caliper (type denomination)	CII 41 ¹⁾	Bosch BIRIII ²⁾	Bosch BIRIII	CI 38	
Rear brake caliper, piston - Ø mm	41.0	38.0	38.0	38.0	
Rear brake disc – Ø mm	286.0 ³⁾ / 282.0 ⁴⁾	272.0	272.0	253.0	
Brake disc, thickness mm	12.0	10.0	10.0	10.0	
Brake disc, minimum thickness mm	10.0	8.0	8.0	8.0	
Pad thickness without support- mm ing plate authorised by SKODA AUTO A. S. SKO	11.0 onimercial purposes DA AUTO A. S. does	11.0 in part or in whole not guarantee or a	, is not permitted cept any liability	11.0	
Minimum pad thickness with-mm out supporting plate	ir this dozument. C	opyright 2.0 SKOD/	AUTO A. S. 2.0	2.0	

¹⁾ valid for vehicles up to CW 44/2009

²⁾ valid for vehicles as of CW 45/2009

³⁾ valid for vehicles up to 03.2009

²⁾ valid for vehicles as of CW 45/2009

³⁾ valid for vehicles up to 03.2009

⁴⁾ valid for vehicles as of 04.2009

Engine		2.0 l/81 k	W TDI CR	
Engine code letters:		CF	HF	
Master brake cylinder - Ø mr	n	22	2.2	
Brake servo unit - Ø Ind	ch	Left-hand drive:		10
		Right-hand	drive:	7"/8" - tandem
◆ Front disc brake:				
Front brake caliper (type denomin tion)	a-	FS	i-III	
Front brake caliper, piston - Ø mr	m	54	1.0	
Front brake disc – Ø mi	m	28	0.0	
Brake disc, thickness mr	m	22	2.0	
Brake disc, minimum thickness mi	m	19	9.0	
Pad thickness without support- mring plate	m	14	1.0	
Minimum pad thickness with- mrout supporting plate	m	2	.0	
♦ Rear disc brake:				
Rear brake caliper (type denomination)	а-	CI 38 ¹⁾	Bosch BIRIII ²⁾	
Rear brake caliper, piston - Ø mr	m	38.0	38.0	
Rear brake disc – Ø mr	m	253.0	272.0	
Brake disc, thickness mr	m	10.0	10.0	
Brake disc, minimum thickness mr	m	8.0	8.0	
Pad thickness without support- mi	m	11.0	11.0	
Minimum pad thickness with- mrout supporting plate	m	2.0	2.0	

¹⁾ valid for vehicles with front-wheel drive

1.2 Brake fluid

Classification	N 052 766.Z0 according to the USA standard FMVSS 571.116 DOT4 and VW standard 501 14
Change	⇒ Maintenance ; Booklet Octavia II

1.3 Brake inspection

General information:

- The test stand is used as drive.
- During the testing, the idling speed must be set on vehicles with manual gearbox and the driving position »N« must be engaged on vehicles with automatic gearbox.
- When conducting the test, observe the specifications provided by the manufacturer of the test rig.

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²⁾ valid for vehicles with four-wheel drive



Note

The brake regulation systems do not function when ignition is off.

Test - vehicles with front-wheel-drive

The brake test must be performed on a single-axle roller dynamometer.

The test speed must not exceed 6 km/h.

The test stands approved by Škoda comply with these conditions.

Test - vehicles with four-wheel drive with four-wheel clutch.

The brake inspection must be performed on a contra-rotative single axle roller type test stand for vehicles with four-wheel drive.

Contra-rotative means: The test stand rollers of the single axle roller type test stand rotate forwards on the one side and backwards on the other side.

Thus, a transfer of the braking forces in the drive train is prevented.

The wheel which rotates forwards is measured each time during the test, this requires the need of two braking tests per axle.

The test speed must not exceed 6 km/h.

The test stands approved by Škoda comply with these conditions.

If a test stand is not available for vehicles with four-wheel drive, the brake inspection can also be performed on a standard single axle roller type test stand as follows:

- Drive the vehicle forwards onto the rollers.
- Switch off engine and wait 2 seconds.
- Perform brake inspection at the front.
- Start engine and wait approx. 5 seconds until adequate vacuum has built up.
- Drive the vehicle forwards until the rear wheels are standing on the rollers.
- Switch off engine and wait 2 seconds.
- Perform brake inspection at the rear.
- Start engine and wait approx. 5 seconds until adequate vacuum has built up.

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45 – Anti-lock brake system

1 Antilock braking system (ABS)

General instructions for ABS ⇒ page 10

Distinguishing features of the ABS systems ⇒ page 13

Safety precautions, basic information on fault finding and on repairing ⇒ page 14

Required technical information ⇒ page 14

1.1 General instructions for ABS

The ABS brake system is split diagonally. The brake servo assistance is provided pneumatically by the vacuum brake servo unit.

Vehicles fitted with ABS do not have a mechanical brake pressure regulator. Specifically matched software in the ABS control unit - J104- regulates the brake pressure distribution on the rear axle.

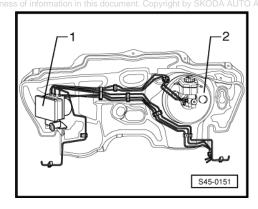


Note

- If the ABS hydraulic unit N55- is damaged, the ABS control unit - J104- must be fully replaced with the ABS hydraulic unit - N55- .
- The ABS control unit J104- can be separated from the ABS hydraulic unit N55- ⇒ page 42, if required ⇒ page 61.
- ♦ The hydraulic pump and the ABS hydraulic unit N55- must not be separated from each other.
- ◆ Faults in the ABS do not influence the brake system and servo assistance. The conventional braking system remains fully functional even without ABS. There will be a change in braking behaviour. After the ABS warning lamp comes on, the rear wheels may lock prematurely during braking. Protected by copyright of wheels may lock prematurely during braking. Protected by copyright of wheels may lock prematurely during braking.

Arrangement of the ABS, left-hand drive vehicle

- 1 ABS hydraulic unit N55- with ABS control unit J104-
- 2 Brake servo

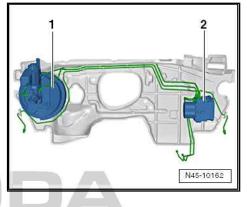






Arrangement of the ABS in right-hand drive vehicles

- 1 Brake servo
- 2 ABS hydraulic unit N55- with ABS control unit J104-







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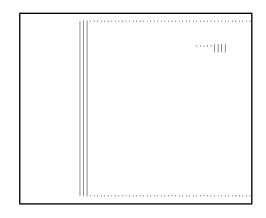


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The ABS control unit - J104--1- and the ABS hydraulic unit - N55--2- form a single unit. They can only be separated after the complete unit is removed. The ABS control unit - J104- can be separated from the ABS hydraulic unit - N55- \Rightarrow page 42, if required \Rightarrow page 61. The hydraulic pump -3- must not be separated from the ABS hydraulic unit - N55- -2-.

New control units supplied by the spare parts area are not coded. They must be coded after installation ⇒ Vehicle diagnostic tester.

- ◆ Before starting work on anti-lock brake systems, query the event memory to check for complaints and conduct guided fault finding ⇒ Vehicle diagnostic tester.
- Do not separate plug connections unless the ignition is switched off.
- ◆ Before commencing work on the ABS systems, switch off the ignition and disconnect the earth strap at the battery ⇒ Electrical System; Rep. gr. 27.
- If the battery earth strap is disconnected and connected, carry out additional operations ⇒ Electrical System; Rep. gr. 27.
- Welding work using electric welding equipment may affect the ABS system.
- Do the following before commencing welding work using electrical welding tool:
- Disconnect the earth strap from the negative terminal of the battery and cover the negative terminal.
- Connect the earth connection of the electric welding tool directly to the part to be welded. There must not be any electrically insulated parts between the earth connection and the welding point.
- Electronic control units and electrical wiring must not touch the earth connection or the welding electrode.
- During painting operations, the ABS control unit J104- may be exposed to a maximum temperature of 95 °C for only a short period, and to a maximum of 85 °C for longer periods (approx. 2 hours).
- Do not drive the vehicle if the connector is unplugged from the ABS control unit - J104-.
- ♦ Absolute cleanliness is required when working on the anti-lock of information in this document. Copyright by SKODA AUTO A. S.® brake system. It is not permitted to use any products which contain mineral oil, such as oils, greases etc.
- Thoroughly clean connection points and the surrounding area before disconnecting, but do not use any aggressive cleaning agents, such as brake cleaner, petroleum, thinner or similar.
- ♦ Place removed parts on a clean surface and cover.
- Carefully cover or close opened components if the repair is not completed immediately (use plugs from the repair kit - 1H0 698 311 A-).
- Only use lint-free cloths.
- ♦ Do not remove spare parts from their wrappings until immediately before installation.
- Use only genuine wrapped parts.
- When the system is open, do not work with compressed air and do not move the vehicle.
- The valve coils in the ABS control unit J104- must not be calibrated.







- The valve coils in the ABS control unit J104- cannot be replaced.
- ◆ The pressure sensor must not be modified or damaged.
- The pressure sensor cannot be replaced.
- The sensor housing must not be subjected to mechanical load.
- No measurements must be carried out at the contact points of the ABS control unit - J104- .
- No measurements must be carried out at the contact points of the ABS hydraulic unit - N55-.
- The valve domes of the ABS hydraulic unit N55- must not be damaged or bent.
- The contacts on the ABS control unit J104- and the ABS hydraulic unit - N55- cannot be replaced.
- Do not use contact spray.
- ♦ No contamination or foreign object may located between ABS control unit J104- and ABS hydraulic unit N55- .
- Ensure that no brake fluid enters connectors.
- ♦ Observe the relevant instructions when handling brake fluid.
- After completing work which involved opening the brake system, bleed the brake system with the brake filling and bleeding device, e. g. -VAS 5234-, ⇒ page 168.
- During the subsequent road test, ensure that at least one controlled brake application is performed (pulsing must be felt on the brake pedal).

1.2 Distinguishing features of the ABS systems

- ABS wheel control system when braking. It prevents the wheels from locking when braking.
- ESP (ESC) electronic stability program. It prevents the vehicle from skidding by means of a targeted intervention in the braking and steering process.
- EDL electronic differential lock. It enables the driving off on a road with different friction coefficients under the right and left drive wheel by braking of the wheel which is slipping.
- TCS traction control system. It prevents the driving wheels from slipping when accelerating by throttling the engine power output.
- MBA mechanical brake assistance.
- HBA hydraulic brake assistance.
- EDC Engine Drag Torque Control. It prevents the driving wheels from locking, if suddenly the accelerator pedal is released or when braking with a gear engaged.
- ◆ EBD electronic brake pressure distribution.
- ◆ DSR automatic steering recommendation. Recommends to the driver a change in the steering position, which under certain conditions can increase the efficiency of the ESP (ESC).
- HHC Hill Hold Control. Makes it easy to set off on hills without the vehicle rolling back and also without operating the parking brake.
- ◆ RKA (TPM) Tyre inspection display





XDS - Extension of the electronic differential lock. It reacts when the front inside wheel lifts during fast cornering. XDS intervenes by using braking pressure on the inside wheel, in order to prevent spinning. In doing so, the traction improves and the track stability of the vehicle increases.

1.3 Safety precautions, basic information on fault finding and on repairing

- ABS is a vehicle security system, in-depth knowledge of the system is required for working on such systems. Testing and replacement or repairs should be carried out by personnel specially trained for ABS.
- Faults are indicated by the ABS warning light, the red brake system warning light and the warning light for ESP (ESC).
 Certain faults are not detected until after a minimum speed of 20 km/h has been exceeded (conduct a road test).
- ♦ If the ABS warning light and the brake system warning light do not light up and if in spite of this the brake system is not fully operational, look for the fault in the conventional brake system ⇒ page 94 and ⇒ page 153.

1.4 Required technical information

- → Current flow diagrams, Electrical fault finding and Fitting locations
- Construction and function of brake systems ⇒ Self-study programme
 No. 28; ESP (ESC) and ⇒ Self-study programme
 No. 59; DSR and HHC
- ♦ Technical Service Handbook
- Owner's Manual Vehicle diagnosis, measurement and information system VAS-





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Electrical/electronic components and fitting locations ABS Mark 70 (ABS/TCS)

Electrical/electronic components and fitting locations ABS Mark 70 (ABS/TCS) for vehicles up to MY 2008 ⇒ page 15

Electrical/electronic components and fitting locations ABS Mark 70 (ABS/TCS) for vehicles as of MY 2009 ⇒ page 17

Electrical/electronic components and fitting locations ABS Mark 70 (ABS/TCS) for vehicles as of MY 2011 ⇒ page 19

2.1 Electrical/electronic components and fitting locations ABS Mark 70 (ABS/TCS) for vehicles up to MY 2008



Note

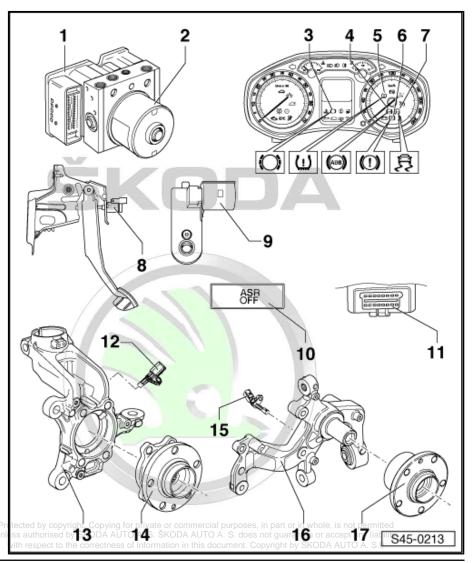
- ♦ If the ABS hydraulic unit N55- is damaged, the ABS control unit J104- must be fully replaced with the ABS hydraulic unit N55- .
- ◆ The ABS control unit J104- can be separated from the ABS hydraulic unit N55- → page 42.
- ♦ The hydraulic pump and the ABS hydraulic unit N55- must not be separated from each other.

1 - ABS control unit - J104-

- Fitting location for lefthand drive: at hydraulic unit in right of engine compartment
- ☐ Fitting location for righthand drive: at hydraulic unit in left of engine compartment
- □ Check ⇒ Vehicle diagnostic tester
- do not disconnect the plug connector before the self-diagnosis is complete. Switch off the ignition before disconnecting the plug connection.
- Removing and installing the ABS control unit -J104- with the ABS hydraulic unit - N55-⇒ page 42
- Disconnecting the control unit from the hydraulic unit ⇒ page 42
- ☐ Fitting the control unit to the hydraulic unit ⇒ page 42

2 - ABS hydraulic unit - N55-

- ☐ Fitting location for lefthand drive: in right of engine compartment
- Fitting location for righthand drive: in left of en-



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gine compartment

9
The hydraulic unit consists of these components:
 ABS hydraulic pump - V64- Check ⇒ Vehicle diagnostic tester Valve block, (includes the inlet and exhaust valves) The hydraulic pump and the ABS hydraulic unit - N55- must not be separated from each othe Removing and installing ⇒ page 42
B - Brake pad warning light - K32- ☐ Operation: ⇒ page 29
- ABS warning light - K47-
☐ Operation: ⇒ page 29
G - Warning light for tyre pressure display - K220- ☐ Operation: ⇒ page 29
5 - Dual circuit and hand brake system warning light - K7- ☐ Operation: ⇒ page 29
' - Warning light for traction control system - K86- □ Operation: ⇒ page 29
 3 - The brake light switch - F- and brake pedal switch - F47- installed until 10/05 Adjust ⇒ page 138 Check ⇒ Vehicle diagnostic tester
 The brake light switch - F- and brake pedal switch - F47- installed from 11/05 Fitting location: on master brake cylinder Removing and installing ⇒ page 149 Check ⇒ Vehicle diagnostic tester
0 - Switch for the Traction Control System - E132- ☐ Fitting location: in the centre console
1 - Diagnostic connection ☐ Fitting location: Cover in driver's footwell
2 - Front right and left wheel speed sensors - G45- / -G47- ☐ Check ⇒ Vehicle diagnostic tester ☐ Removing and installing ⇒ page 82
3 - Wheel-bearing housing - front axle
4 - Wheel hub with wheel bearing ☐ Sensor ring for ABS is built into the wheel hub 5 - Rear right and left wheel speed sensors - G44- / -G46-
 □ Check ⇒ Vehicle diagnostic tester □ Removing and installing ⇒ page 82
6 - Wheel-bearing housing - rear axle
7 - Wheel hub with wheel bearing Sensor ring for ABS is built into the wheel hub

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2.2 Electrical/electronic components and fitting locations ABS Mark 70 (ABS/ TCS) for vehicles as of MY 2009



Note

- ♦ If the ABS hydraulic unit N55- is damaged, the ABS control unit J104- must be fully replaced with the ABS hydraulic unit N55- .
- ◆ The ABS control unit J104- can be separated from the ABS hydraulic unit N55- ⇒ page 42.
- ♦ The hydraulic pump and the ABS hydraulic unit N55- must not be separated from each other.

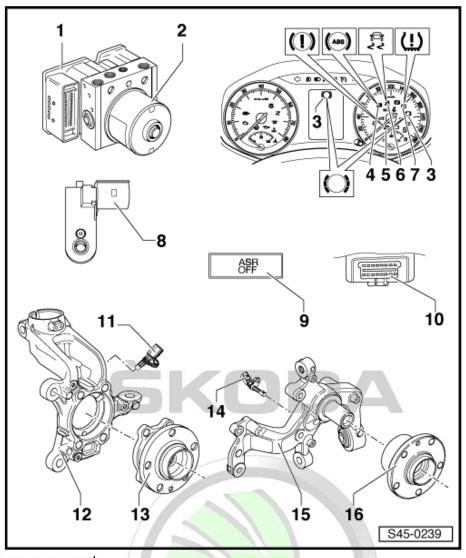
1 - ABS control unit - J104-

- Fitting location for lefthand drive: at hydraulic unit in right of engine compartment
- ☐ Fitting location for righthand drive: at hydraulic unit in left of engine compartment
- □ Check ⇒ Vehicle diagnostic tester
- do not disconnect the plug connector before the self-diagnosis is complete. Switch off the ignition before disconnecting the plug connection.
- Removing and installing the ABS control unit -J104- with the ABS hydraulic unit - N55-⇒ page 42
- □ Disconnecting the control unit from the hydraulic unit ⇒ page 42
- ☐ Fitting the control unit to the hydraulic unit

 page 42

2 - ABS hydraulic unit - N55-

- ☐ Fitting location for lefthand drive: in right of engine compartment
- Fitting location for righthand drive: in left of engine compartment



The hydraulic unit consists of these components:

- ☐ ABS hydraulic pump V64-
- ☐ Check ⇒ Vehicle diagnostic tester
- ☐ Valve block, (includes the inlet and exhaust valves)
- ☐ The hydraulic pump and the ABS hydraulic unit N55- must not be separated from each other
- □ Removing and installing ⇒ page 42

3 - Brake pad warning light - K32-

☐ Operation: ⇒ page 29

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4 - ABS warning light - K47-

□ Operation: ⇒ page 29

5 - Dual circuit and hand brake system warning light - K7-

□ Operation: ⇒ page 29

6 - Warning light for traction control system - K86-

□ Operation: ⇒ page 29

7 - Warning light for tyre pressure display - K220-

☐ Operation: ⇒ page 29

8 - The brake light switch - F- and brake pedal switch - F47-

☐ Fitting location: on master brake cylinder

□ Removing and installing ⇒ page 149

☐ Check ⇒ Vehicle diagnostic tester

9 - Switch for the Traction Control System - E132-

☐ Fitting location: in the centre console

10 - Diagnostic connection

☐ Fitting location: Cover in driver's footwell

11 - Front right and left wheel speed sensors - G45- / -G47-

☐ Check ⇒ Vehicle diagnostic tester

☐ Removing and installing ⇒ page 82

12 - Wheel-bearing housing - front axle

13 - Wheel hub with wheel bearing

☐ Sensor ring for ABS is built into the wheel hub

14 - Rear right and left wheel speed sensors - G44- / -G46-

☐ Check ⇒ Vehicle diagnostic tester

□ Removing and installing ⇒ page 82

15 - Wheel-bearing housing - rear axle

16 - Wheel hub with wheel bearing

Sensor ring for ABS is built into the wheel hub





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2.3 Electrical/electronic components and fitting locations ABS Mark 70 (ABS/ TCS) for vehicles as of MY 2011



- If the ABS hydraulic unit N55- is damaged, the ABS control unit J104- must be fully replaced with the ABS hydraulic unit - N55- .
- ◆ The ABS control unit J104- can be separated from the ABS hydraulic unit N55- ⇒ page 42.
- ♦ The hydraulic pump and the ABS hydraulic unit N55- must not be separated from each other.

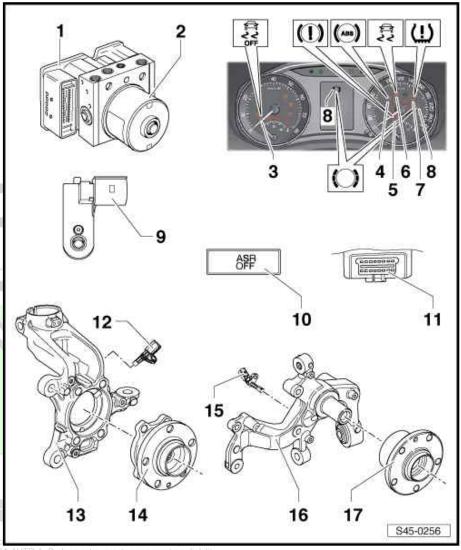
1 - ABS control unit - J104-

- Fitting location for lefthand drive: at hydraulic unit in right of engine compartment
- ☐ Fitting location for righthand drive: at hydraulic unit in left of engine compartment
- ☐ Check ⇒ Vehicle diagnostic tester
- do not disconnect the plug connector before the self-diagnosis is complete. Switch off the ignition before disconnecting the plug connection.
- Removing and installing the ABS control unit -J104- with the ABS hydraulic unit - N55-⇒ page 42
- □ Disconnecting the control unit from the hydraulic unit ⇒ page 42
- ☐ Fitting the control unit to the hydraulic unit

 page 42

2 - ABS hydraulic unit - N55-

- ☐ Fitting location for lefthand drive: in right of engine compartment
- Fitting location for righthand drive: in left of engine compartment



The hydraulic unit consists of these components: The hydraulic unit consists of the hydra

- ☐ ABS hydraulic pump V64-
- ☐ Check ⇒ Vehicle diagnostic tester
- ☐ Valve block, (includes the inlet and exhaust valves)
- ☐ The hydraulic pump and the ABS hydraulic unit N55- must not be separated from each other
- □ Removing and installing ⇒ page 42

3 - Warning light 2 for ESP (ESC) and TCS - K216-

□ Operation: ⇒ page 37

Octavia II 2004 ➤ , Octavia II 2010 ➤ Brake systems - Edition 11.2017

Brake dystome Eatton 11:2011
4 - ABS warning light - K47-
☐ Operation: ⇒ page 29
5 - Dual circuit and hand brake system warning light - K7-
☐ Operation: <u>⇒ page 29</u>
6 - Warning light for traction control system - K86-
☐ Operation: ⇒ page 29
7 - Warning light for tyre pressure display - K220-
☐ Operation: ⇒ page 29
8 - Brake pad warning light - K32-
☐ Operation: ⇒ page 29
9 - The brake light switch - F- and brake pedal switch - F47-
☐ Fitting location: on master brake cylinder
□ Removing and installing ⇒ page 149
☐ Check ⇒ Vehicle diagnostic tester
10 - Switch for the Traction Control System - E132-
☐ Fitting location: in the centre console
11 - Diagnostic connection
☐ Fitting location: Cover in driver's footwell
12 - Front right and left wheel speed sensors - G45- / -G47-
□ Check > Vehicle diagnostic tester purposes, in part or in whole, is not permitted.
□ urRemoving and installing ⇒ page 82 of A. S. does not guarantee or accept any liability of the page and installing ⇒ page 82 of the page of the page and installing ⇒ page 82 of the page of the pa
13 - Wheel-bearing housing - front axle
14 - Wheel hub with wheel bearing
 Sensor ring for ABS is built into the wheel hub
15 - Rear right and left wheel speed sensors - G44- / -G46-
□ Check ⇒ Vehicle diagnostic tester
□ Removing and installing ⇒ page 82

16 - Wheel-bearing housing - rear axle 17 - Wheel hub with wheel bearing

 $\hfill \Box$ Sensor ring for ABS is built into the wheel hub

3 Electrical/electronic components and fitting locations ABS Mark 60/Mark 60 EC (ABS/EDL/TCS/ESP (ESC))

Electrical/electronic components and fitting locations ABS Mark 60 for vehicles up to MY 2008 ⇒ page 21

Electrical/electronic components and fitting locations ABS Mark 60 EC for vehicles as of MY 2009 ⇒ page 24

Electrical/electronic components and fitting locations ABS Mark 60 EC/PYA for vehicles as of MY 2011 ⇒ page 27

3.1 Electrical/electronic components and fitting locations ABS Mark 60 for vehicles up to MY 2008



Note

- Vehicles up to CW 21/2008 are fitted with the control unit for ABS Mark 60.
- Vehicles up to CW 22/2008 are fitted with the control unit for ABS Mark 60 EC. A sensor unit for ESP (ESC) -G419- is integrated in this control unit. Depending on the equipment, the control unit for ABS Mark 60 EĆ must not be fitted with these senders on vehicles with front-wheel drive.
- If the ABS hydraulic unit N55- is damaged, the ABS control unit J104- must be fully replaced with the ABS hydraúlic unit - N55- .
- The ABS control unit J104- can be separated from the ABS hydraulic unit N55- ⇒ page 61.
- The hydraulic pump and the ABS hydraulic unit N55- must not be separated from each other.



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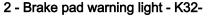


1 - ABS control unit - J104-

- Fitting location for lefthand drive: in right of engine compartment
- ☐ Fitting location for righthand drive: in left of engine compartment
- ☐ as of CW 22/2008 with integrated sensor unit for ESP (ESC) -G419- pos. 11
- do not disconnect the plug connector before the self-diagnosis is complete. Switch off the ignition before disconnecting the plug connection.
- □ Check ⇒ Vehicle diagnostic tester
- □ Removing and installing the ABS control unit -J104- with the ABS hydraulic unit - N55-<u>⇒ page 61</u>
- Disconnecting the control unit from the hydraulic unit <u>⇒ page 61</u>
- ☐ Fitting the control unit to the hydraulic unit <u>⇒ page 61</u>
- uith ABS hydraulic unit -N55-

The hydraulic unit consists of these components:

- □ ABS hydraulic pump -V64-
- ☐ Brake pressure sender 1 G201-
- ☐ Check ⇒ Vehicle diagnostic tester
- □ Valve block, (includes the inlet and exhaust valves)
- ☐ The hydraulic pump and the ABS hydraulic unit N55- must not be separated from each other



□ Operation: ⇒ page 29

3 - ABS warning light - K47-

□ Operation: ⇒ page 29

4 - Warning light for tyre pressure display - K220-

□ Operation: ⇒ page 29

5 - Dual circuit and hand brake system warning light - K7-

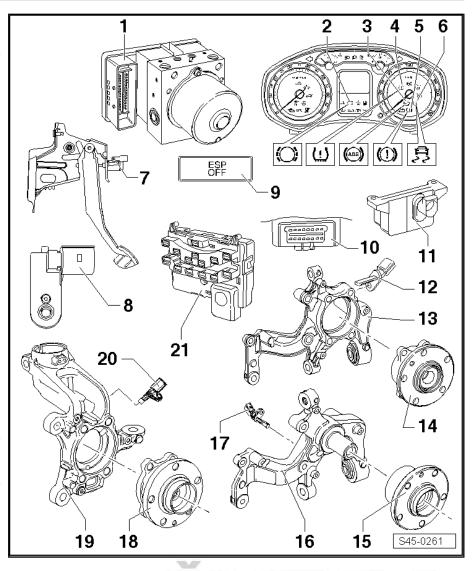
□ Operation: ⇒ page 29

6 - ESP (ESC) and TCS warning lamp - K155-

□ Operation: ⇒ page 29

7 - The brake light switch - F- and brake pedal switch - F47-

- ☐ installed until 10/05
- Adjust ⇒ page 138
- ☐ Check ⇒ Vehicle diagnostic tester





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_	he brake light switch - F- and brake pedal switch - F47-
	Check ⇒ Vehicle diagnostic tester
	CS/ESP (ESC) button - E256-
	Fitting location: in the centre console
10 - I	Diagnostic connection
	Fitting location: Cover in driver's footwell
11 - 8	Sensor unit for ESP (ESC) - G419-
Vehic	cles up to CW 21/2008:
	Fitting location: under the right front seat
	combined lateral acceleration sender - G200- , yaw rate sender - G202- and longitudinal acceleration sender - G251-
	integrated in one housing
	Check ⇒ Vehicle diagnostic tester
	Removing and installing <u>⇒ page 91</u>
	cles from CW 22/2008
_	Fitting location: fitted in the ABS control unit - J104-
u	combined lateral acceleration sender - G200- , yaw rate sender - G202- and longitudinal acceleration sender - G251-
	Check ⇒ Vehicle diagnostic tester
12 - I	Rear right and left wheel speed sensors - G44- / -G46- (vehicles with four-wheel drive)
	Check ⇒ Vehicle diagnostic tester
	Removing and installing <u>⇒ page 82</u>
13 - \	Wheel-bearing housing - rear axle (vehicles with four-wheel drive)
	Wheel hub with wheel bearing (vehicles with four-wheel drive) Sensor ring for ABS is built into the wheel hub
	Wheel hub with wheel bearing (vehicles with front-wheel drive) Sensor ring for ABS is built into the wheel hub
	Wheel-bearing housing - rear axle (vehicles with front-wheel drive)
	Rear right and left wheel speed sensors - G44- / -G46- (vehicles with front-wheel drive)
., - i	
	Removing and installing <u>⇒ page 82</u>
18 - \	Wheel hub with wheel bearing - front axle
	Sensor ring for ABS is built into the wheel hub
19 - \	Wheel-bearing housing - front axle Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by ŠKODA AUTO A. S. ŠKODA AUTO A. S. does not guarantee or accept any liability
20 - I	with respect to the correctness of information in this document. Copyright by ŠKODA AUTO A. S.® Front right and left wheel speed sensors - G45- / -G47-
	Check ⇒ Vehicle diagnostic tester
	Removing and installing <u>⇒ page 82</u>
21 - 8	Steering angle sender - G85-
all ve	chicles (except right-hand drive vehicles as of CW 22/2008)
	Fitting location: on the steering wheel shaft between the steering wheel and the steering column switch
	Check ⇒ Vehicle diagnostic tester Removing and installing ⇒ Electrical System; Rep. gr. 94
	nemoving and installing ⇒ Electrical System, Red. 0f. 94

Right-hand drive as of CW 22/2008

- ☐ Fitting location: at power-assisted steering cannot be replaced individually
- ☐ Check ⇒ Vehicle diagnostic tester

3.2 Electrical/electronic components and fitting locations Mark 60 EC for vehicles as of MY 2009



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Note

- ♦ Vehicles up to CW 21/2008 are fitted with the control unit for ABS Mark 60.
- ♦ Vehicles up to CW 22/2008 are fitted with the control unit for ABS Mark 60 EC. A sensor unit for ESP (ESC) -G419- is integrated in this control unit. Depending on the equipment, the control unit for ABS Mark 60 EC must not be fitted with these senders on vehicles with front-wheel drive.
- ♦ If the ABS hydraulic unit N55- is damaged, the ABS control unit J104- must be fully replaced with the ABS hydraulic unit N55- .
- ♦ The ABS control unit J104- can be separated from the ABS hydraulic unit N55- <u>⇒ page 61</u>.
- ◆ The hydraulic pump and the ABS hydraulic unit N55- must not be separated from each other.

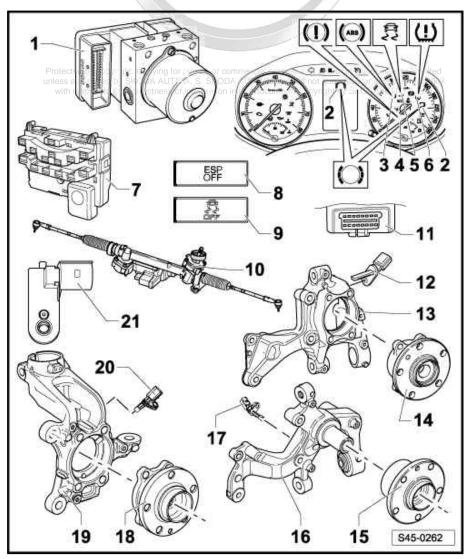
1 - ABS control unit - J104-

- Fitting location for lefthand drive: in right of engine compartment
- ☐ Fitting location for righthand drive: in left of engine compartment
- □ as of CW 22/2008 with integrated sensor unit for ESP (ESC) -G419-
- do not disconnect the plug connector before the self-diagnosis is complete. Switch off the ignition before disconnecting the plug connection.
- ☐ Check ⇒ Vehicle diagnostic tester
- Removing and installing the ABS control unit -J104- with the ABS hydraulic unit - N55-⇒ page 61
- Disconnecting the control unit from the hydraulic unit ⇒ page 61
- ☐ Fitting the control unit to the hydraulic unit

 page 61
- with ABS hydraulic unit -N55-

The hydraulic unit consists of these components:

ABS hydraulic pump - V64-



_		
		Brake pressure sender 1 - G201- Check ⇒ Vehicle diagnostic tester Valve block, (includes the inlet and exhaust valves) The ABS control unit - J104- and the ABS hydraulic unit - N55- must not be separated from each other Do not separate the hydraulic pump - V64- from the valve block.
		ake pad warning light - K32-
		Operation: ⇒ page 29
		SS warning light - K47-
		Operation: ⇒ page 29
		ıal circuit and hand brake system warning light - K7- Operation: ⇒ page 29
		SP (ESC) and TCS warning lamp - K155-
		Operation: ⇒ page 29
6 -	- Wa	arning light for tyre pressure display - K220-
		Operation: ⇒ page 29
7 -	Sto	eering angle sender - G85-
Le	ft-h	and drive up to CW 21/2009
		Fitting location: on the steering wheel shaft between the steering wheel and the steering column switch
		Check ⇒ Vehicle diagnostic tester Removing and installing → Floatrical Systems Rep. gr. 04
		Removing and installing ⇒ Electrical System; Rep. gr. 94 and drive as of CW 22/2009 - Pos. 10
		for vehicles up to CW 44/2009
_		Fitting location: in the centre console
9 -		CS/ESP (ESC) button - E256- for vehicles as of CW 45/2009
		Fitting location: in the centre console
10		steering angle sender - G85-
all	vel	nicles (except left-hand drive vehicles up to CW 21/2009)
		Fitting location: at power-assisted steering - cannot be replaced individually Check ⇒ Vehicle diagnostic tester
Le	ft-h	and drive up to CW 21/2009 - Pos. 7
11	- D	Diagnostic connection
		Fitting location: Cover in driver's footwell
		Rear right and left wheel speed sensors - G44- / -G46- (vehicles with four-wheel drive) Check > Vehicle diagnostic tester Removing and installing > page 82
13	- V	Vheel-bearing housing - rear axle (vehicles with four-wheel drive) in whole, is not permitted
	- V	Wheel hub with wheel bearing (vehicles with four-wheel drive) Sensor ring for ABS is built into the wheel hub
15		Wheel hub with wheel bearing (vehicles with front-wheel drive) Sensor ring for ABS is built into the wheel hub
16	- V	Wheel-bearing housing - rear axle (vehicles with front-wheel drive)
17		Rear right and left wheel speed sensors - G44- / -G46- (vehicles with front-wheel drive) Check ⇒ Vehicle diagnostic tester

Octavia II 2004 ➤ , Octavia II 2010 ➤ Brake systems - Edition 11.2017

- ☐ Removing and installing <u>⇒ page 82</u>
- 18 Wheel hub with wheel bearing front axle
 - ☐ Sensor ring for ABS is built into the wheel hub
- 19 Wheel-bearing housing front axle
- 20 Front right and left wheel speed sensors G45- / -G47-
 - ☐ Check ⇒ Vehicle diagnostic tester
 - □ Removing and installing ⇒ page 82
- 21 The brake light switch F- and brake pedal switch F47-
 - ☐ Fitting location: on master brake cylinder
 - □ Removing and installing ⇒ page 149
 - ☐ Check ⇒ Vehicle diagnostic tester

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3.3 Electrical/electronic components and fitting locations ABS Mark 60 EC/PYA for vehicles as of MY 2011



Note

- A sensor unit for ESP (ESC) -G419- is integrated in the control unit. Depending on the equipment, the control unit must not be fitted with these senders on vehicles with front-wheel drive.
- If the ABS hydraulic unit N55- is damaged, the ABS control unit J104- must be fully replaced with the ABS hydraulic unit - N55-.
- The ABS control unit J104- can be separated from the ABS hydraulic unit N55- ⇒ page 61.
- The hydraulic pump and the ABS hydraulic unit N55- must not be separated from each other.

1 - ABS control unit - J104-

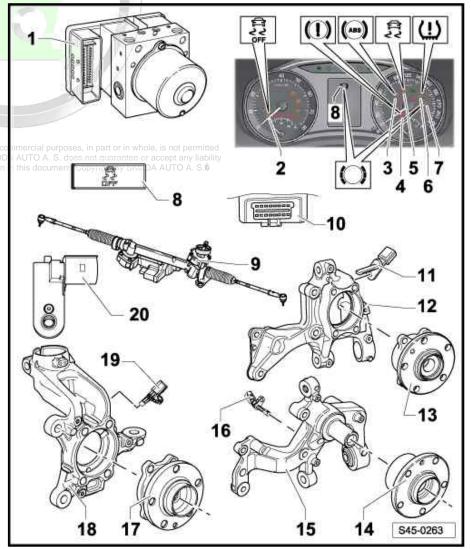
- □ Fitting location for lefthand drive: in right of engine compartment
- □ Fitting location for righthand drive: in left of engine compartment
- with integrated sensor unit for ESP (ESC) -G419-
- do not disconnect the plug connector before the self-diagnosis is complete. Switch off the ignition before disconnecting the plug connection.
- □ Check ⇒ Vehicle diagnostic tester
- Removing and installing the ABS control unit -J104- with the ABS hydraulic unit - N55-⇒ page 61
- ☐ Disconnecting the control unit from the hydraulic unit ⇒ page 61
- ☐ Fitting the control unit to the hydraulic unit ⇒ page 61
- with ABS hydraulic unit -N55-

The hydraulic unit consists of these components:

- ABS hydraulic pump -V64-
- ☐ Brake pressure sender 1 G201-
- ☐ Check ⇒ Vehicle diagnostic tester
- □ Valve block, (includes the inlet and exhaust valves)
- ☐ The hydraulic pump and the ABS hydraulic unit N55- must not be separated from each other

2 - Warning light 2 for ESP (ESC) and TCS - K216-

□ Operation: ⇒ page 37





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	BS warning light - K47- Operation: ⇒ page 29
	ual circuit and hand brake system warning light - K7- Operation: ⇒ page 29
	SP (ESC) and TCS warning lamp - K155- Operation: <u>⇒ page 29</u>
	/arning light for tyre pressure display - K220-
	Operation: ⇒ page 29
	rake pad warning light - K32-
	Operation: ⇒ page 29
	CS/ESP (ESC) button - E256-
	Fitting location: in the centre console
9 - St	teering angle sender - G85-
	Fitting location: at power-assisted steering - cannot be replaced individually
	Check ⇒ Vehicle diagnostic tester
10 - C	Diagnostic connection
	Fitting location: in driver's footwell
11 - F	Rear right and left wheel speed sensors - G44- / -G46- (vehicles with four-wheel drive)
	Check ⇒ Vehicle diagnostic tester
	Removing and installing <u>⇒ page 82</u>
12 - V	Wheel-bearing housing - rear axle (vehicles with four-wheel drive)
	Wheel hub with wheel bearing (vehicles with four-wheel drive)
	Sensor ring for ABS is built into the wheel hub
	Wheel hub with wheel bearing (vehicles with front-wheel drive)
	Sensor ring for ABS is built into the wheel hub
15 - V	Wheel-bearing housing - rear axle (vehicles with front-wheel drive)
16 - F	Rear right and left wheel speed sensors - G44- / -G46- (vehicles with front-wheel drive)
	Check ⇒ Vehicle diagnostic tester
	Removing and installing ⇒ page 82
	Wheel hub with wheel bearing - front axle
	Sensor ring for ABS is built into the wheel hub Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted.
	vineer-bearing nousing - Iron axie unless authorised by ŠKODA AUTO A. S. ŠKODA AUTO A. S. does not guarantee or accept any liabil with respect to the correctness of information in this document. Copyright by ŠKODA AUTO A. S.®
_	Front right and left wheel speed sensors - G45- / -G47-
	Check ⇒ Vehicle diagnostic tester Removing and installing ⇒ page 82
יי דחפ	The brake light switch - F- and brake pedal switch - F47-
ا - 20 🗖	Fitting location: on master brake cylinder
٥	Removing and installing ⇒ page 149

 \Box Check \Rightarrow Vehicle diagnostic tester

Indication of faults by means of warn-4 ing lights

Warning lights - for vehicles up to MY 2008 ⇒ page 29

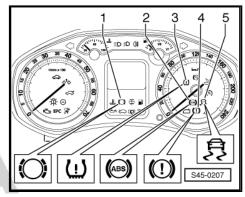
Warning lights - for vehicles as of MY 2009 ⇒ page 33

Warning lights - for vehicles as of MY 2011 ⇒ page 37

4.1 Warning lights - for vehicles up to MY 2008

ABS/TCS warning lights

Posi- tion	Identification
1	Brake pad warning light - K32-
2	ABS warning light - K47-
3	Warning light for tyre pressure display - K220-
4	Dual circuit and hand brake system warning light - K7-
5	Warning light for traction control system - K86-

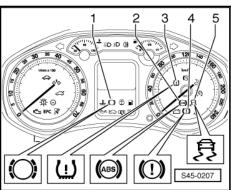


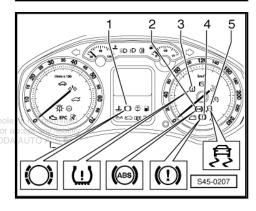
ABS/EDL/TCS/ESP (ESC) warning lights

Posi- tion	Identification
1	Brake pad warning light - K32-
2	ABS warning light - K47-
3	Warning light for tyre pressure display - K220-
4	Dual circuit and hand brake system warning light - K7-
5	ESP (ESC) and TCS warning lamp - K155-

Brake pad warning light - K32-

- ♦ If the warning light for the brake pad K32- -1- does not go out 3 seconds after switching the ignition on or glows during the driving operation, the following can be the causes of the fault:
- a the brake pads could be worn down
- Check the brake pads on the front and rear axles. Replace the brake pads if they are worn down.
- b there is a fault in the wiring ⇒ Current flow diagrams, Electrical fault finding and Fitting locations.







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ABS warning light - K47-

- If the ABS warning light K47- -2- does not go out after the ignition is switched on and after completion of the test sequence, the causes of the fault may be:
- a the supply voltage is less than 10 V
- b an ABS fault is present



WARNING

If an ABS fault -b- is present, the anti-lock brake system remains switched off while the conventional brake system remains fully operational.

c - a sporadic fault existed on a wheel speed sensor after the last vehicle start

In this case the ABS warning light - K47- goes out automatically after restarting the vehicle and after a speed above 20 km/h is reached.

- d the connection from the dash panel insert to the ABS control unit J104- is interrupted ⇒ Current flow diagrams, Electrical fault finding and Fitting locations
- e the dash panel insert is defective

ABS warning light - K47- and dual circuit and hand brake system warning light - K7-

- If the ABS warning light K47- -2- goes out or the dual circuit and hand brake system warning light - K7- -4- lights up, the causes of the fault may be:
- a the hand-brake is still applied
- b the brake fluid level is too low (warning light flashes)

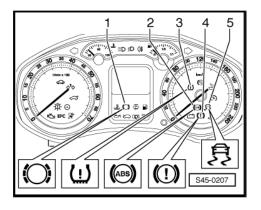
On switching on the ignition three warning tones are audible.

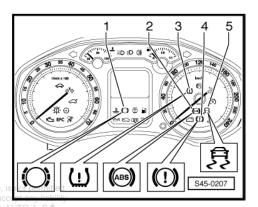
- c There is a fault on the lines to the dual circuit and hand brake system warning light K7-⇒ Current flow diagrams, Electrical fault finding and Fitting locations DA AUTO A S KODA AUTO A S does not guarantee
- If the ABS warning light K47- (-2-) and the dual circuit and hand brake system warning light - K7- (-4-) light up, the ABS system is defective. There will be a change in braking behaviour.



WARNING

Once the ABS warning light - K47- and the dual circuit and hand brake system warning light - K7- have lit up then the rear wheels lock quite early on when braking.





Warning light for traction control system - K86-

 If the warning light for traction control system - K86- -5- does not goes out after the ignition is switched on and after completion of the test sequence, the causes of the fault may be:

There is a fault which exclusively affects the TSC. The ABS and EBD safety systems on the vehicle remain fully functional ⇒ Query the fault memory.

- a Short circuit to positive in traction control system switch E132-
- b a fault in the actuation of the warning light for traction control system - K86- ⇒ Current flow diagrams, Electrical fault finding and Fitting locations
- c the traction control system was switched off using the traction control system switch - E132-:

If the warning light for traction control system - K86- flashes while driving, the traction control system is operating in regulating

- If the warning light for traction control system K86- -5- does not light up during the automatic test sequence, then the following error is present:
- a the warning light for traction control system K86- is defective, carry out ⇒ Electrical testing



If the warning light for TSC/ESP (ESC) - K155- -5- does not go out after the ignition is switched on and after completion of the test sequence, the causes of the fault may be:

There is a fault which exclusively effects the TCS/ESP (ESC). The ABS/EDL and EBD safety systems on the vehicle remain fully functional ⇒ Query the fault memory.

- a Short circuit to positive in TCS/ESP (ESC) button E256-
- b a fault in the actuation of the TCS/ESP (ESC) warning light -K155- ⇒ Current flow diagrams, Electrical fault finding and Fitting locations.
- c the ESP (ESC) facility was established by the button for TCS/ ESP (ESC) - E256- off

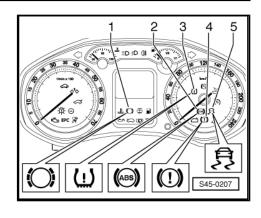


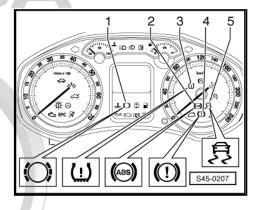
Note

If the ESP (ESC) system is switched off using the TCS/ESP (ESC) button - E256-, only the traction control system is switched off.

If the warning light for TCS/ESP (ESC) - K155- flashes while driving, the traction control system or the ESP system is operating in regulating mode.

- If the warning light for the TCS/ESP (ESC) K155- -5- does not light up during the automatic test sequence, then the following error is present:
- a the warning light for the TCS/ESP K155- is defective, carry out ⇒ Electrical testing.







Warning light for tyre pressure display - K220-

- Warning light for tyre pressure inspection display K220- -3comes on:
- Carry out tyre pressure inspection.
- Correct tyre pressure.
- Perform basic setting.

Initiating basic setting:

- · Ignition on
- Press the button for tyre pressure inspection E226- -arrowfor more than 2 seconds.

When the button for tyre pressure inspection - E226- is pressed the warning light for tyre pressure inspection display - K220- lights up in the dash panel insert.

The basic setting is confirmed with an acoustic signal.

- Switch off ignition.
- After the ignition is switched on again, the warning light for tyre pressure inspection display - K220- does no longer light up.
- Warning light for tyre pressure inspection display K220flashes:
- Carry out tyre pressure inspection.
- Correct tyre pressure.
- · Ignition on
- Press simultaneously the button for tyre pressure inspection -E226- -arrow A- and the traction control system switch - E132or the TCS/ESP (ESC) button - E256- -arrow B- for more than 2 seconds.



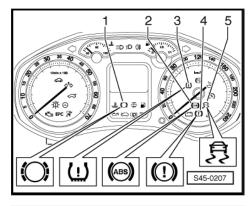
Note

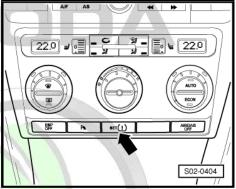
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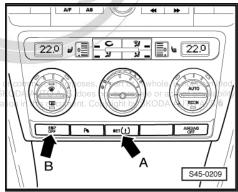
The traction control system switch - E256- may be installed instead of the TCS/ESP (ESC) button - E132-.

If the warning light for tyre pressure inspection display - K220-continues to flash:

Undertake "Targeted fault finding" ⇒ Vehicle diagnostic tester.







Warning lights - for vehicles as of MY 4.2 2009

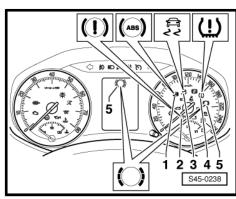
ABS/TCS warning lights

Posi- tion	Identification
1	ABS warning light - K47-
2	Dual circuit and hand brake system warning light - K7-
3	Warning light for traction control system - K86-
4	Warning light for tyre pressure display - K220-
5	Brake pad warning light - K32-

3 4 5 S45-0238

ABS/EDL/TCS/ESP (ESC) warning lights

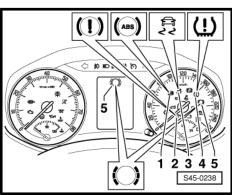
Posi- tion	Identification
1	ABS warning light - K47-
2	Dual circuit and hand brake system warning light - K7-
3	ESP (ESC) and TCS warning lamp - K155-
4	Warning light for tyre pressure display - K220-
5	Brake pad warning light - K32-



Brake pad warning light - K32-

- ♦ If the warning light for the brake pad K32- -5- does not go out 3 seconds after switching the ignition on or glows during the driving operation, the following can be the causes of the fault:
- a the brake pads could be worn down
- Check the brake pads on the front and rear axles. Replace the brake pads if they are worn down.
- b there is a fault in the wiring ⇒ Current flow diagrams, Electrical fault finding and Fitting locations.





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ABS warning light - K47-

- If the ABS warning light K47- -1- does not go out after the ignition is switched on and after completion of the test sequence, the causes of the fault may be:
- a the supply voltage is less than 10 V
- b an ABS fault is present



WARNING

If an ABS fault -b- is present, the anti-lock brake system remains switched off while the conventional brake system remains fully operational.

c - a sporadic fault existed on a wheel speed sensor after the last vehicle start

In this case the ABS warning light - K47- goes out automatically after restarting the vehicle and after a speed above 20 km/h is reached.

d - the connection from the dash panel insert to the ABS control unit - J104- is interrupted ⇒ Current flow diagrams, Electrical fault finding and Fitting locations

e - the dash panel insert is defective

ABS warning light - K47- and dual circuit and hand brake system warning light - K7-

- If the ABS warning light K47- -1- goes out or the dual circuit and hand brake system warning light - K7- -2- lights up, the causes of the fault may be:
- a the hand-brake is still applied
- b the brake fluid level is too low (warning light flashes)

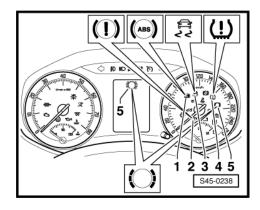
On switching on the ignition three warning tones are audible.

- c There is a fault on the lines to the dual circuit and hand brake system warning light K7- ⇒ Current flow diagrams, Electrical fault finding and Fitting locations
- If the ABS warning light K47- (-1-) and the dual circuit brake and hand brake warning light - K7- (-2-) light up, the anti-lock brake system is defective. There will be a change in braking behaviour.



WARNING

Once the ABS warning light - K47- and the dual circuit and hand brake system warning light - K7- have lit up then the rear wheels lock quite early on when braking.







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Warning light for traction control system - K86-

♦ If the warning light for traction control system - K86- -3- does not goes out after the ignition is switched on and after completion of the test sequence, the causes of the fault may be:

There is a fault which exclusively affects the TSC. The ABS and EBD safety systems on the vehicle remain fully functional ⇒ Query the fault memory.

- a Short circuit to positive in traction control system switch E132-
- b a fault in the actuation of the warning light for traction control system - K86- ⇒ Current flow diagrams, Electrical fault finding and Fitting locations
- c the traction control system was switched off using the traction control system switch - E132- :
 - on vehicles up to CW 44/2009, the warning light remains lit
 - on vehicles as of CW 45/2009, the warning light flashes slowly

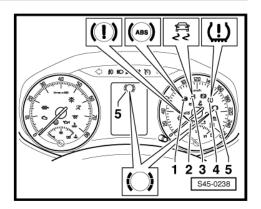
If the warning light for traction control system - K86- flashes quickly while driving, the traction control system is operating in regulating mode.

- If the warning light for traction control system K86- -3- does not light up during the automatic test sequence, then the following error is present:
- a the warning light for traction control system K86- is defective, carry out ⇒ Electrical testing





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ESP (ESC) and TCS warning lamp - K155-

If the warning light for TCS/ ESP (ESC) - K155- -3- does not go out after the ignition is switched on and after completion of the test sequence, the causes of the fault may be:

There is a fault which exclusively effects the TCS/ESP (ESC). The ABS/EDL and EBD safety systems on the vehicle remain fully functional ⇒ Query the fault memory.

- a Short circuit to positive in TCS/ESP (ESC) button E256-
- b a fault in the actuation of the TCS/ESP (ESC) warning light -K155- ⇒ Current flow diagrams, Electrical fault finding and Fitting
- c The ESP system was switched off using the TCS/ESP (ESC) button - E256- .
 - on vehicles up to CW 44/2009, the warning light remains lit
 - on vehicles as of CW 45/2009, the warning light flashes slowly



Note

If the ESP (ESC) system is switched off using the TCS/ESP (ESC) button - E256-, only the traction control system is switched off.

If the warning light for TCS/ESP (ESC) - K155- flashes quickly while driving, the traction control system or the ESP (ESC) system is operating in regulating mode.

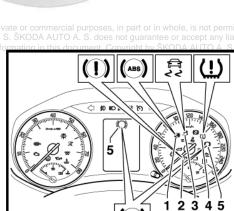
- If the warning light for the TCS/ESP (ESC) K155- -3- does not light up during the automatic test sequence, then the following error is present:
- a the warning light for the TCS/ESP K155- is defective, carry out ⇒ Electrical testing.

Warning light for tyre pressure display - K220-

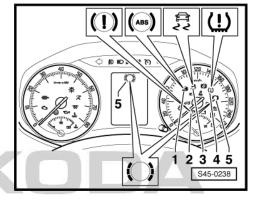
- Warning light for tyre pressure inspection display K220- -4comes on:
- Carry out tyre pressure inspection.
- Correct tyre pressure.
- Perform basic setting.

Initiating basic setting:

Ignition on



S45-0238



Press the button for tyre pressure inspection - E226- -arrowfor more than 2 seconds.

When the button for tyre pressure inspection - E226- is pressed the warning light for tyre pressure inspection display - K220- lights up in the dash panel insert.

The basic setting is confirmed with an acoustic signal.

- Switch off ignition.
- After the ignition is switched on again, the warning light for tyre pressure inspection display K220- does no longer light up.
- Warning light for tyre pressure inspection display K220flashes:
- Carry out tyre pressure inspection.
- Correct tyre pressure.
- Ignition on
- Press simultaneously the button for tyre pressure inspection E226- -arrow A- and the traction control system switch - E132or the TCS/ESP (ESC) button - E256- -arrow B- for more than
 - on vehicles up to CW 44/2009, version of the button -1-
 - on vehicles as of CW 45/2009, version of the button -2-



Note

The traction control system switch - E256- may be installed instead of the TCS/ESP (ESC) button - E132- .

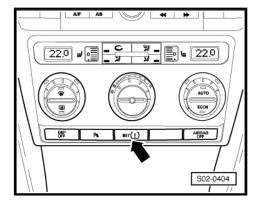
If the warning light for tyre pressure inspection display - K220continues to flash:

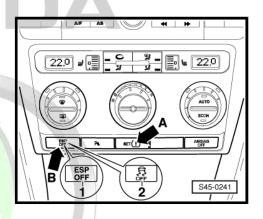
Undertake "Targeted fault finding" ⇒ Vehicle diagnostic tester.

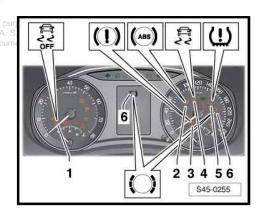
4.3 Warning lights - for vehicles as of MY 2011

ABS/TCS warning lights

Posi- tion	Identification
1	Warning light 2 for ESP (ESC) and TCS - K216-
2	ABS warning light - K47-
3	Dual circuit and hand brake system warning light - K7-
4	Warning light for traction control system - K86-
5	Warning light for tyre pressure display - K220-
6	Brake pad warning light - K32-









ABS/EDL/TCS/ESP (ESC) warning lights

Posi- tion	Identification
1	Warning light 2 for ESP (ESC) and TCS - K216-
2	ABS warning light - K47-
3	Dual circuit and hand brake system warning light - K7-
4	ESP (ESC) and TCS warning lamp - K155-
5	Warning light for tyre pressure display - K220-
6	Brake pad warning light - K32-

Warning light 2 for ESP (ESC) and TCS - K216-

If the traction control system is switched off in the centre console using the TCS/ESP (ESC) button - E256- or the traction control system switch - E132- , the warning light 2 for ESP (ESC) and TCS - K216- must light up when the ignition is switched on.

- If the warning light 2 for ESP (ESC) and TCS K216--1- does not light up when the traction control system is switched off in the centre console using the button for TCS/ESP (ESC) -E256- or the traction control system switch - E132- and the ignition is switched on, this may be due to the following cause:
- a the connection of the dash panel insert to the ABS control unit J104- is interrupted ⇒ Current flow diagrams, Electrical fault finding and Fitting locations

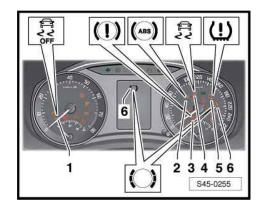


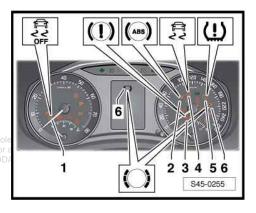
Note

- ♦ Only the traction control system can be switched off using the button for TCS/ESP (ESC) E256- .
- ♦ The ESP (ESC) system can not be switched off, i.e. the ESP (ESC) system is always active.

Brake pad warning light - K32-

- If the warning light for the brake pad K32- -6- does not go out 3 seconds after switching the ignition on or glows during the driving operation, the following can be the causes of the fault:
- a the brake pads could be worn down
- Check the brake pads on the front and rear axles. Replace the brake pads if they are worn down.
- b there is a fault in the wiring ⇒ Current flow diagrams, Electrical fault finding and Fitting locations. So of information in this document. Copyright by





ABS warning light - K47-

- ♦ If the ABS warning light K47- -2- does not go out after the ignition is switched on and after completion of the test sequence, the causes of the fault may be:
- a the supply voltage is less than 10 V
- b an ABS fault is present



WARNING

If an ABS fault -b- is present, the anti-lock brake system remains switched off while the conventional brake system remains fully operational.

c - a sporadic fault existed on an ABS wheel speed sensor after the last vehicle start

In this case the ABS warning light - K47- goes out automatically after restarting the vehicle and after a speed above 20 km/h is reached.

- d the connection from the dash panel insert to the ABS control unit - J104- is interrupted ⇒ Current flow diagrams, Electrical fault finding and Fitting locations
- e the dash panel insert is defective

ABS warning light - K47- and dual circuit and hand brake system warning light - K7-

- If the ABS warning light K47- -2- goes out or the dual circuit and hand brake system warning light - K7- -3- lights up, the causes of the fault may be:
- a the hand-brake is still applied
- b the brake fluid level is too low (warning light flashes)

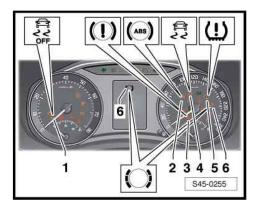
On switching on the ignition three warning tones are audible.

- c There is a fault on the lines to the dual circuit and hand brake system warning light - K7- ⇒ Current flow diagrams, Electrical fault finding and Fitting locations
- If the ABS warning light K47- (-2-) and the dual circuit and hand brake system warning light - K7- (-3-) light up, the ABS system is defective. There will be a change in braking behaviour.

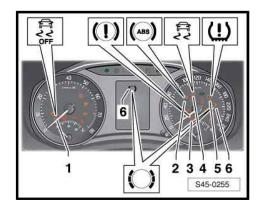


WARNING

Once the ABS warning light - K47- and the dual circuit and hand brake system warning light - K7- have lit up then the rear wheels lock quite early on when braking.



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Warning light for traction control system - K86-

 If the warning light for traction control system - K86- -4- does not goes out after the ignition is switched on and after completion of the test sequence, the causes of the fault may be:

There is a fault which exclusively affects the TSC. The ABS and EBD safety systems on the vehicle remain fully functional ⇒ Query the fault memory.

- a Short circuit to positive in traction control system switch E132-
- b a fault in the actuation of the warning light for traction control system K86-⇒ Current flow diagrams, Electrical fault finding and Fitting locations

If the warning light for traction control system - K86- flashes while driving, the traction control system is operating in regulating mode.

- If the warning light for traction control system K86- -4- does not light up during the automatic test sequence, then the following error is present:
- a the warning light for traction control system K86- is defective, carry out \Rightarrow Electrical testing



 If the warning light for TCS/ESP (ESC) - K155- -4- does not go out after the ignition is switched on and after completion of the test sequence, the causes of the fault may be:

There is a fault which exclusively effects the TCS/ESP (ESC). The ABS/EDL and EBD safety systems on the vehicle remain fully functional ⇒ Query the fault memory.

- a Short circuit to positive in TCS/ESP (ESC) button E256-
- b a fault in the actuation of the TCS/ESP (ESC) warning light K155- ⇒ Current flow diagrams, Electrical fault finding and Fitting locations.

If the warning light for TCS/ESP (ESC) - K155- flashes while driving, the traction control system or the ESP system is operating in regulating mode.

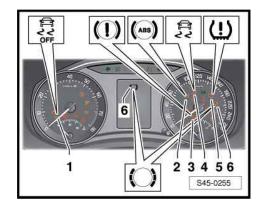
- If the warning light for the TCS/ESP (ESC) K155- -4- does not light up during the automatic test sequence, then the following error is present rised by KODA AUTO A. S. ŠKODA AUTO A. S. does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by SKODA AUTO A. S. &
- a the warning light for the TCS/ESP K155- is defective, carry out \Rightarrow Electrical testing .

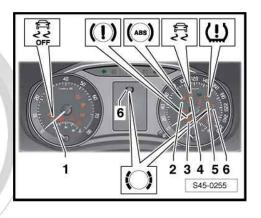
Warning light for tyre pressure display - K220-

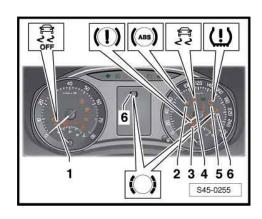
- Warning light for tyre pressure inspection display K220- -5comes on:
- Carry out tyre pressure inspection.
- Correct tyre pressure.
- Perform basic setting.

Initiating basic setting:

· Ignition on









 Press the button for tyre pressure inspection - E226- -arrowfor more than 2 seconds.

When the button for tyre pressure inspection - E226- is pressed the warning light for tyre pressure inspection display - K220- lights up in the dash panel insert.

The basic setting is confirmed with an acoustic signal.

- Switch off ignition.
- After the ignition is switched on again, the warning light for tyre pressure inspection display - K220- does no longer light up.
- Warning light for tyre pressure inspection display K220flashes:
- Carry out tyre pressure inspection.
- Correct tyre pressure.
- · Ignition on
- Press simultaneously the button for tyre pressure inspection -E226- -arrow A- and the traction control system switch - E132or the TCS/ESP (ESC) button - E256- -arrow B- for more than 2 seconds.

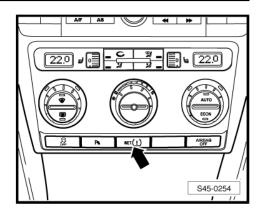


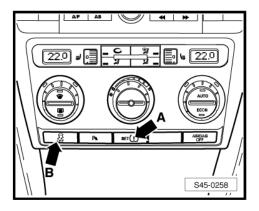
Note

The traction control system switch - E256- may be installed instead of the TCS/ESP (ESC) button - E132-.

If the warning light for tyre pressure inspection display - K220-continues to flash:

Undertake "Targeted fault finding" ⇒ Vehicle diagnostic tester.









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5 Hydraulic Control Unit, Brake Servo Unit/Master Brake Cylinder ABS Mark 70 (ABS/TCS)

Summary of components - left-hand drive ⇒ page 42

Connect the brake lines from the master brake cylinder to the hydraulic unit - left-hand drive ⇒ page 45

Removing and installing ABS control unit - J104- ABS hydraulic unit - N55- , left -hand drive vehicles ⇒ page 45

Disconnecting control unit from hydraulic unit - Left-hand drive ⇒ page 51

Installing control unit to hydraulic unit - Left-hand drive ⇒ page 52

Summary of components - right-hand drive ⇒ page 53

Connect the brake lines from the master brake cylinder to the hydraulic unit - right-hand drive ⇒ page 54

Removing and installing ABS control unit - J104- / ABS hydraulic unit - N55-, right-hand drive vehicles ⇒ page 55

Separating the control unit from the hydraulic unit - Right-hand drive ⇒ page 59

Attaching control unit to hydraulic unit - Right-hand drive ⇒ page 60

5.1 Summary of components - left-hand drive



Note

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- If the ABS hydraulic unit N55- is damaged, the ABS control unit J104- must be fully replaced with the ABS hydraulic unit - N55- .
- ♦ The ABS control unit J104- can be separated from the ABS hydraulic unit N55- ⇒ page 51.
- ◆ The hydraulic pump and the ABS hydraulic unit N55- must not be separated from each other.



1 - ABS control unit - J104-

- Removing and installing⇒ page 45
- Disconnecting the control unit from the hydraulic unit ⇒ page 51
- ☐ Fitting the control unit to the hydraulic unit ⇒ page 52

2 - ABS hydraulic unit - N55-

□ Removing and installing⇒ page 45

3 - Screw, 5.5 Nm

4 - Brake line, 14 Nm

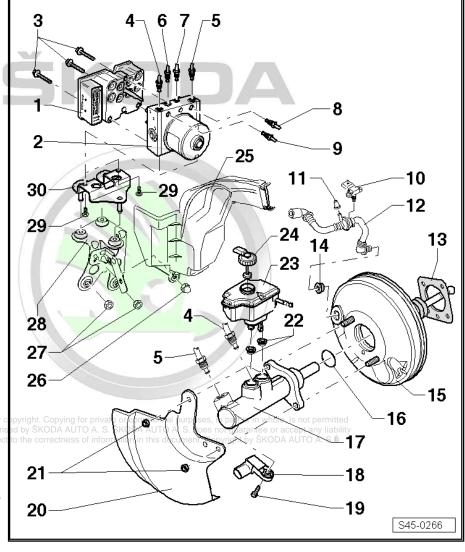
- from master brake cylinder (push rod piston circuit) to ABS hydraulic unit
- Distinguishing feature: pipe screw with thread M12 x 1

5 - Brake line, 14 Nm

- from master brake cylinder (floating piston circuit) to ABS hydraulic unit
- Distinguishing feature: pipe screw with thread M12 x 1

6 - Brake line, 14 Nm

- □ to front left brake caliper
- ☐ Distinguishing feature for vehicles up to CW 21/2008: pipe screw with thread M12 x 1



☐ Distinguishing feature for vehicles as of CW 22/2008: pipe screw with thread M10 x 1

7 - Brake line, 14 Nm

- ☐ To front right brake caliper.
- ☐ Distinguishing feature for vehicles up to CW 21/2008: pipe screw with thread M10 x 1
- ☐ Distinguishing feature for vehicles as of CW 22/2008: pipe screw with thread M12 x 1

8 - Brake line, 14 Nm

- to rear left brake caliper
- ☐ Distinguishing feature: pipe screw with thread M12 x 1

9 - Brake line, 14 Nm

- to rear right brake caliper
- ☐ Distinguishing feature: Pipe screw with thread M10 x 1

10 - Pressure sensor for the brake servo unit -G294-

- only on vehicles with petrol engines with brake vacuum pump
- □ Removing and installing ⇒ page 185
- ☐ Check ⇒ Vehicle diagnostic tester

11 - Dummy plug

12 - Vacuum line

■ with non-return valve

Octavia II 2004 ➤ , Octavia II 2010 ➤ Brake systems - Edition 11.2017

	······································
13 - 0	Gasket
	for brake servo
14 - 8	Sealing grommet
	for the connection of the vaccum hose
	Brake servo
	on petrol engines, the required negative pressure is drawn from the intake manifold or it is generated with a vacuum pump <u>⇒ page 178</u>
	vehicles using a diesel engine are fitted with a vacuum pump for generating a low pressure ⇒ page 178
	Inspect proper operation:
_	With the engine off press down brake pedal repeatedly with force (this reduces the pressure already present in the device).
-	Now step on and hold brake pedal with medium pressure and start engine. If the brake servo is functioning properly, the brake pedal will be felt to go down as the servo takes effect.
	if there are faults replace completely
_	Summary of components ⇒ page 173
	Removing and installing <u>⇒ page 192</u>
	Sealing ring
<u> </u>	Master brake cylinder cannot be repaired, replace completely in the event of faults Summary of components ⇒ page 173 Removing and installing ⇒ page 186
	Γhe brake light switch - F- and brake pedal switch - F47-
	installed from 11/05
	Fitting location: on master brake cylinder
	Removing and installing ⇒ page 149
	Check ⇒ Vehicle diagnostic tester
19 - 8	Screw, 5 Nm
20 - F	Protection plate
21 - N	Nut, 25 Nm
	replace after each removal
22 - S	Sealing grommets moisten with brake fluid and press in brake fluid reservoir
	Brake fluid reservoir
	Screw cap
	Heat protection plate Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted
	unless authorised by SKODA AUTO A. S. SKODA AUTO A. S. does not guarantee or accept any liability
	Sell-locking hut, o Ivin
	Self-locking nut; 20 Nm
	Console
	Screw, 8 Nm
30 - N	Mounting bracket

Moisten the bolt of the support with lubricant, e.g. -D 007 000 A2-, before inserting into the rubber bearings

☐ after installing, check for firm seating

5.2 Connect the brake lines from the master brake cylinder to the hydraulic unit - lefthand drive

Connect brake lines to the master brake cylinder

- A from master brake cylinder (push rod piston circuit) to ABS hydraulic unit
- Distinguishing feature: pipe screw with thread M12 x 1
- B from master brake cylinder (floating piston circuit) to ABS hydraulic unit
- Distinguishing feature: pipe screw with thread M12 x 1
- 1 Hydraulic unit to front left brake caliper
- 3 hydraulic unit to rear right brake caliper
- 4 hydraulic unit to rear left brake caliper

Connect brake lines to the hydraulic unit.

- A from master brake cylinder (push rod piston circuit) to ABS hydraulic unit
- Distinguishing feature for vehicles up to CW 21/2008: pipe screw with thread M10 x 1
- Distinguishing feature for vehicles as of CW 22/2008: pipe screw with thread M12 x 1
- B from master brake cylinder (floating piston circuit) to ABS hydraulic unit
- Distinguishing feature: pipe screw with thread M12 x 1
- 1 Hydraulic unit to front left brake caliper
- Distinguishing feature for vehicles up to CW 21/2008: pipe screw with thread M12 x 1
- Distinguishing feature for vehicles as of CW 22/2008: pipe screw with thread M10 x 1
- 2 Hydraulic unit to front right brake caliper
- Distinguishing feature for vehicles up to CW 21/2008: pipe screw with thread M10 x 1
- Distinguishing feature for vehicles as of CW 22/2008: pipe screw with thread M12 x 1
- 3 hydraulic unit to rear right brake caliper
- Distinguishing feature: Pipe screw with thread M10 x 1
- 4 hydraulic unit to rear left brake caliper
- Distinguishing feature: pipe screw with thread M12 x 1

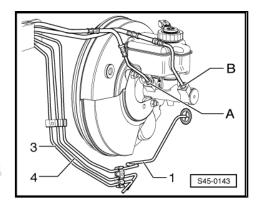
5.3 Removing and installing ABS control unit - J104- ABS hydraulic unit - N55- left -hand drive vehicles

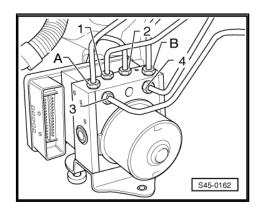
Special tools and workshop equipment required

◆ Brake pedal load e.g. -V.A.G 1869/2-

Removing:

Fitting location:





The control unit is bolted to the hydraulic unit and is located on the right of the engine compartment.



WARNING

The brake lines around the hydraulic unit must not be bent!

- Read out and note the actual control unit coding ⇒ Vehicle diagnostic tester.
- Remove battery ⇒ Electrical System; Rep. gr. 27.
- Remove engine cover.

1.9 ltr. diesel engine:

- Remove connecting hose to inlet connection ⇒ Engine; Rep. gr. 21.
- Remove intake manifold flap motor V157- ⇒ Engine; Rep. gr. 23 (except vehicles with engine identification characters BJB).

2.0 ltr. diesel engine:

- Remove bulkhead plenum chamber ⇒ Body Work; Rep. gr. 66.
- Remove connection pipe between intake hose and exhaust turbocharger.
- Remove top toothed belt guard.

Diesel engines with the diesel particle filter:

 Remove pre-exhaust pipe with diesel particle filter ⇒ diesel engine; Rep. gr. 26.





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Continued for all vehicles:

- Release the plug at the control unit, to do so pull the lever -1- downwards in -direction of arrow 1-. The lever -2- is released.
- Pull the lever -2- upwards in -direction of arrow 2-.
- Unplug the connector -3- in -direction of arrow 3- from the control unit.
- Position brake pedal load, e.g. -V.A.G 1869/2-.
- Attach the bleeder hose of the bleeding bottle onto the vent valves of the front left and rear left brake caliper and open vent valves.
- Press down brake pedal with brake pedal load , e.g. -V.A.G 1869/2- , at least 60 mm.
- Close front left and rear left bleeder valves.



Note

Do not remove brake pedal load , e.g. -V.A.G 1869/2- .

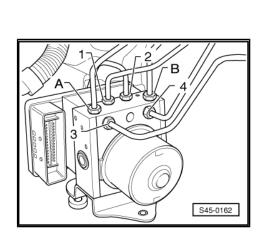
- Place sufficient non-fluffing cloths under the control unit and the hydraulic unit.
- Extract as much brake fluid as possible from the brake fluid reservoir.



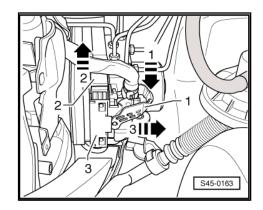
Note

Make sure that no brake fluid gets onto the contacts of the plug connections.

- Mark both brake lines from the master brake cylinder -A- and
 -B- and unscrew from the hydraulic unit.
- Close the brake lines and threaded holes immediately with plugs from the repair kit -1H0 698 311 A-.
- Mark the brake lines (for brake calipers) -1- to -4-, unscrew and close with plugs from the repair kit -1H0 698 311 A-.



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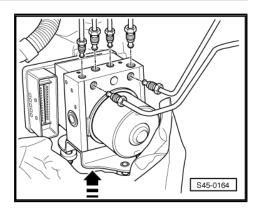
- Pull hydraulic unit with control unit upwards and out of the rubber bearings in -direction of arrow-.
- Unscrew the bracket from the hydraulic unit.

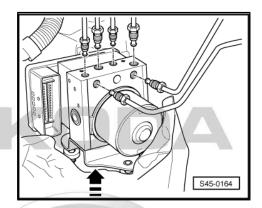
Installing:



Note

- Only remove plugs from the new hydraulic unit if the relevant brake line is installed.
- If the plugs were already removed from the hydraulic unit, then brake fluid may escape and adequate filling and bleeding can no longer be guaranteed.
- Screw the bracket onto the hydraulic unit and tighten to the recommended tightening torque.
- Moisten the bolt of the support ⇒ <u>Item 30 (page 44)</u> with lubricant, e.g. -D 007 000 A2-, before inserting into the rubber bearings.
- Insert the hydraulic unit with the control unit into the rubber bearings of the console against the -direction of arrow-.
- Remove the plugs consecutively from the brake lines and the ABS hydraulic unit.
- Screw the marked brake lines onto the hydraulic unit.







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- Connect the plug -3- to the control unit against the -direction of arrow 3-.
- Push the lever -2- against the -direction of arrow 2-.
- Lock the plug at the control unit, to do so pull the lever -1upwards in -direction of arrow 1-. The lever -2- is locked.

Diesel engines with the diesel particle filter:

Install pre-exhaust pipe with diesel particle filter ⇒ diesel engine; Rep. gr. 26.

Continued for all vehicles:

1.9 ltr. diesel engine:

- Install intake manifold flap motor V157- ⇒ Engine; Rep. gr.
 23 (except vehicles with engine identification characters BJB).
- Install connecting hose to inlet connection ⇒ Engine; Rep. gr. 21.

2.0 ltr. diesel engine:

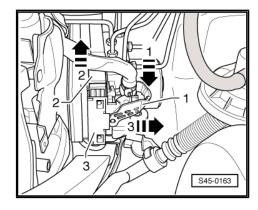
- Install top toothed belt guard.
- Install connection pipe between intake hose and exhaust turbocharger.
- Install the bulkhead plenum chamber ⇒ Body Work; Rep. gr. 66
- Install battery ⇒ Electrical System; Rep. gr. 27.



Note

If the battery earth strap is disconnected and connected, carry out certain additional operations ⇒ Electrical System; Rep. gr. 27.

- Position engine cover.
- Remove brake pedal load e.g. -V.A.G 1869/2- .
- Bleed brake system ⇒ page 168.
- Code the control unit J104- ⇒ Vehicle diagnostic tester.



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Specified torques:

Screw for hydraulic unit to bracket	8 Nm
Brake lines to ABS unit:	
Thread M 10 x 1	14 Nm
Thread M 12 x 1	14 Nm

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5.4 Disconnecting control unit from hydraulic unit - Left-hand drive

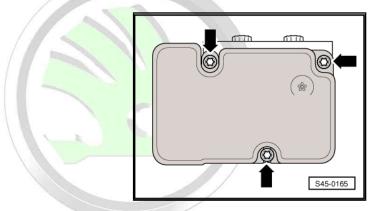
- In the case of a malfunction of the ABS control unit J104-, the control unit must be disconnected from the ABS hydraulic unit - N55- and replaced individually.
- In the case of a malfunction of the ABS hydraulic unit N55-, the ABS hydraulic unit - N55- must be completely replaced together with the ABS control unit - J104-.



Note

- ♦ The hydraulic pump V64- and ABS hydraulic unit N55- must not be separated from each other.
- ♦ On a disconnected ABS control unit J104-, the printed circuit board is exposed.
- ♦ No moisture and no dirt particles must penetrate into the interior of the ABS control unit J104-.
- Electrostatic charge can cause malfunctions of the ABS control unit J104-.
- Before handling the ABS control unit J104-, the technician must discharge himself electrostatically. The electrostatic discharge is achieved by touching earthed metal parts. Do not grab directly at the plug contacts or electronic components.
 - grab directly at the plug contacts or electronic components.

 Remove the ABS hydraulic unit N55- with the ABS control
- unit J104- <u>⇒ page 76</u>
- Place the hydraulic unit with the control unit upwards on a clean and level surface.
- Remove screws -arrows-.



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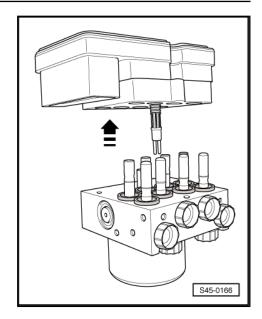
- Detach the control unit without tilting from the hydraulic unit -arrow-
- Carefully pull off all gasket rings from the valve domes of the hydraulic unit.



WARNING

- On a disconnected control unit, the printed circuit board is exposed.
- No humidity or dirt particles must penetrate into the inside of the control unit.
- The hydraulic pump must not be separated from the hydraulic unit.
- Cover the solenoid coils of the control unit with a non-fluffing cloth.

After separating from the control unit and hydraulic unit use the transport protection for valve domes.



5.5 Attaching control unit to hydraulic unit - Left-hand drive



WARNING

Strong vibrations (e.g. fall, knock) can destroy the control unit. The control unit must no longer be used.

- · The surfaces must be cleaned before assembling.
- Push all the gasket rings -A- a little over the valve domes.
- Position the control unit without tilting it onto the hydraulic unit.

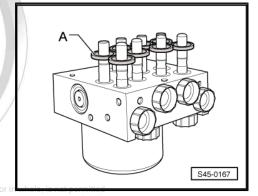
Thus the gasket rings are brought into their end position.

 Screw hydraulic unit and control unit with the enclosed new screws.



Note

- A new control unit may only be installed on the same hydraulic unit twice as a maximum to ensure that the elastic seal is still leak-tight.
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- ♦ A control unit, which was once operational, must not be moun-get by SKODA AUTO A. S. ted a second time.



Specified torques:

Control unit to hydraulic unit 5.5 Nm

5.6 Summary of components - right-hand drive



Note

- ◆ If the ABS hydraulic unit N55- is damaged, the ABS control unit J104- must be fully replaced with the ABS hydraulic unit - N55- .
- ♦ The ABS control unit J104- can be separated from the ABS hydraulic unit N55- <u>⇒ page 59</u>.
- ♦ The hydraulic pump and the ABS hydraulic unit N55- must not be separated from each other.

1 - Brake line, 14 Nm

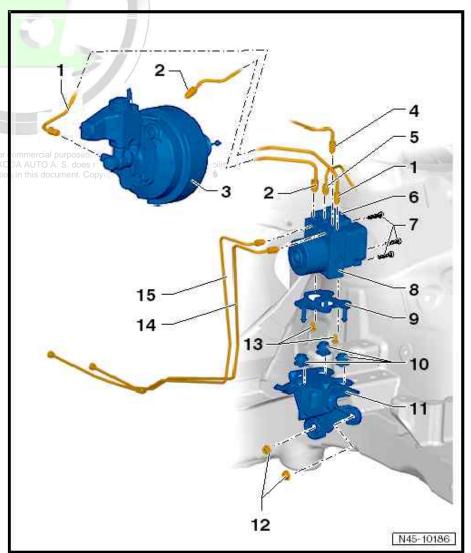
- from master brake cylinder (floating piston circuit) to ABS hydraulic unit
- Distinguishing feature: pipe screw with thread M12 x 1

2 - Brake line, 14 Nm

- der (push rod piston circuit) to ABS hydraulic unit
- Distinguishing feature: pipe screw with thread M12 x 1

3 - Brake servo

- on petrol engines, the required negative pressure is drawn from the intake manifold or it is generated with a vacuum pump ⇒ page 178
- □ vehicles using a diesel engine are fitted with a vacuum pump for generating a low pressure ⇒ page 178
- ☐ Inspect proper operation:
- With the engine off press down brake pedal repeatedly with force (this reduces the pressure already present in the device).



- Now step on and hold brake pedal with medium pressure and start engine. If the brake servo is functioning properly, the brake pedal will be felt to go down as the servo takes effect.
- ☐ if there are faults replace completely
- Summary of components ⇒ page 173
- □ Removing and installing ⇒ page 195

4 - Brake line, 14 Nm

- □ To front right brake caliper.
- ☐ Distinguishing feature for vehicles up to CW 21/2008: pipe screw with thread M10 x 1
- ☐ Distinguishing feature for vehicles as of CW 22/2008: pipe screw with thread M12 x 1

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5 - Brake line, 14 Nm

- to front left brake caliper
- ☐ Distinguishing feature for vehicles up to CW 21/2008: pipe screw with thread M12 x 1
- ☐ Distinguishing feature for vehicles as of CW 22/2008: pipe screw with thread M10 x 1

6 - ABS control unit - J104-

- □ Removing and installing ⇒ page 55
- ☐ Disconnecting the control unit from the hydraulic unit ⇒ page 59
- ☐ Fitting the control unit to the hydraulic unit ⇒ page 60

7 - Screw, 5.5 Nm

8 - ABS hydraulic unit - N55-

□ Removing and installing ⇒ page 55

9 - Mounting bracket

- Moisten the bolt of the support with lubricant, e.g. -D 007 000 A2-, before inserting into the rubber bearings
- □ after installing, check for firm seating

10 - Rubber bearing

make sure that the rubber bearings are not pressed out of the console when installing the bracket

11 - Console

□ before installing the rubber bearings ⇒ Item 10 (page 54), moisten the holes for rubber bearings with lubricant, e.g. -D 007 000 A2-

12 - Nut, 20 Nm

13 - Screw, 8 Nm

14 - Brake line, 14 Nm

- □ to rear left brake caliper
- □ Distinguishing feature: pipe screw with thread M12 x 1

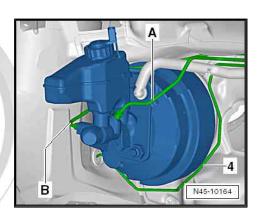
15 - Brake line, 14 Nm

- to rear right brake caliper
- ☐ Distinguishing feature: Pipe screw with thread M10 x 1

5.7 Connecting the brake lines from the master brake cylinder to the hydraulic unit - right-hand drive

Connect brake lines to the master brake cylinder

- A from master brake cylinder (push rod piston circuit) to ABS hydraulic unit
- Distinguishing feature for vehicles up to CW 21/2008: pipe screw with thread M10 x 1 $\,$
- Distinguishing feature for vehicles as of CW 22/2008: pipe screw with thread M12 x 1
- B from master brake cylinder (floating piston circuit) to ABS hydraulic unit
- Distinguishing feature: pipe screw with thread M12 x 1
- 4 Hydraulic unit to front right brake caliper



Connect brake lines to the hydraulic unit.

- A from master brake cylinder (push rod piston circuit) to ABS hydraulic unit
- Distinguishing feature for vehicles up to CW 21/2008: pipe screw with thread M10 x 1 $\,$
- Distinguishing feature for vehicles as of CW 22/2008: pipe screw with thread M12 x 1 $\,$
- B from master brake cylinder (floating piston circuit) to ABS hydraulic unit
- Distinguishing feature: pipe screw with thread M12 x 1
- 1 Hydraulic unit to front left brake caliper
- Distinguishing feature for vehicles up to CW 21/2008: pipe screw with thread M12 x 1 $\,$
- Distinguishing feature for vehicles as of CW 22/2008: pipe screw with thread M10 x 1
- 2 hydraulic unit to rear left brake caliper
- Distinguishing feature of pipe screw with thread M12 x 1
- 3 hydraulic unit to rear right brake caliper
- Distinguishing feature: Pipe screw with thread M10 x 1
- 4 Hydraulic unit to front right brake caliper
- Distinguishing feature for vehicles up to CW 21/2008: pipe screw with thread M10 \times 1
- Distinguishing feature for vehicles as of CW 22/2008: pipe screw with thread M12 x 1 $\,$

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5.8 Removing and installing ABS control ment by SKODA AUTO A. S. unit - J104- / ABS hydraulic unit - N55- - right-hand drive

Special tools and workshop equipment required

◆ Brake pedal load e.g. -V.A.G 1869/2-

Removing:

Fitting location:

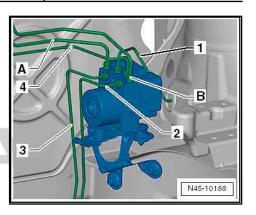
The control unit is bolted to the hydraulic unit and is located on the left in the engine compartment.



WARNING

The brake lines around the hydraulic unit must not be bent!

- Read out and note the actual control unit coding ⇒ Vehicle diagnostic tester.
- Remove engine cover.
- Remove battery ⇒ Electrical System; Rep. gr. 27.
- Remove inlet connection and air filter ⇒ Engine; Rep. gr. 23 or ⇒ Engine; Rep. gr. 24.
- Remove battery ⇒ Electrical System; Rep. gr. 27.
- Position brake pedal load , e.g. -V.A.G 1869/2- .





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- Attach the bleeder hose of the bleeding bottle onto the vent valves of the front left and rear left brake caliper and open vent valves.
- Press down brake pedal with brake pedal load , e.g. -V.A.G 1869/2- , at least 60 mm.
- Close front left and rear left bleeder valves.



Note

Do not remove brake pedal load , e.g. -V.A.G 1869/2- .

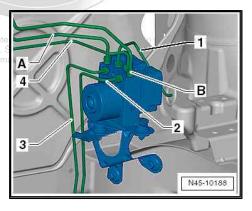
- Place sufficient non-fluffing cloths under the control unit and the hydraulic unit.
- Extract as much brake fluid as possible from the brake fluid reservoir.



Note

Make sure that no brake fluid gets onto the contacts of the plug connections.

- Mark both brake lines from the master brake cylinder -A- and
 -B- and unscrew from the hydraulic unit.
- Close the brake lines and threaded holes immediately with plugs from the repair kit -1H0 698 311 A-.
- Mark the brake lines (for brake calipers) -1- to -4-, unscrew and close with plugs from the repair kit -1H0 698 311 A- .



- Unlock plug on control unit, in -direction of arrow 1-.
- Disconnect the plug from the control unit in -direction of arrow 2-.
- Pull hydraulic unit with control unit upwards and out of the rubber bearings. If the rubber bearings are pulled out of the console at the same time, place the bearings in the same position again <u>⇒ Item 11 (page 54)</u>.
- Unscrew the bracket from the ABS hydraulic unit.

Installing:



Note

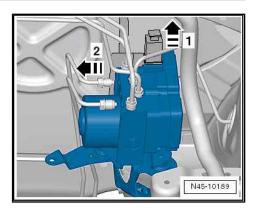
- Only remove plugs from the new hydraulic unit if the relevant brake line is installed.
- If the plugs were already removed from the hydraulic unit, then brake fluid may escape and adequate filling and bleeding can no longer be guaranteed.
- Screw the bracket onto the hydraulic unit and tighten to the recommended tightening torque.
- Moisten the bolt of the support ⇒ Item 9 (page 54) with lubricant, e.g. -D 007 000 A2-, before inserting into the rubber bearings.
- Connect the plug to the control unit against the -direction of arrow 2-.
- Lock the plug at the control unit, against the -direction of arrow 1-.
- Insert the hydraulic unit with the control unit and bracket into the rubber bearings of the console.
- Remove the plugs consecutively from the brake lines and the ABS control unit.
- Screw the marked brake lines onto the hydraulic unit.
- Install battery tray ⇒ Electrical System; Rep. gr. 27.
- Install inlet connection and air filter ⇒ Engine; Rep. gr. 23 or TO A. S. does not guarantee or accept any liable properties of the street of
- Install battery ⇒ Electrical System; Rep. gr. 27.

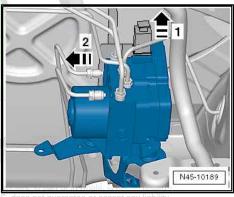


Note

If the battery earth strap is disconnected and connected, carry out certain additional operations ⇒ Electrical System; Rep. gr. 27.

- Position engine cover.
- Remove brake pedal load e.g. -V.A.G 1869/2- .
- Bleed brake system ⇒ page 168.
- Code the control unit J104- ⇒ Vehicle diagnostic tester.







Octavia II 2004 ➤ , Octavia II 2010 ➤ Brake systems - Edition 11.2017

Specified torques:

Screw for hydraulic unit to bracket	8 Nm
Brake lines to ABS unit:	
Thread M 10 x 1	14 Nm
Thread M 12 x 1	14 Nm





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5.9 Separating the control unit from the hydraulic unit - Right-hand drive

- In the case of a malfunction of the ABS control unit J104-, the control unit must be disconnected from the ABS hydraulic unit - N55- and replaced individually.
- In the case of a malfunction of the ABS hydraulic unit N55-, the ABS hydraulic unit - N55- must be completely replaced together with the ABS control unit - J104-.



Note

- ♦ The hydraulic pump V64- and ABS hydraulic unit N55- must not be separated from each other.
- ♦ On a disconnected ABS control unit J104-, the printed circuit board is exposed.
- ♦ No moisture and no dirt particles must penetrate into the interior of the ABS control unit J104-.
- ♦ Electrostatic charge can cause malfunctions of the ABS control unit J104-.
- ♦ Before handling the ABS control unit J104-, the technician must discharge himself electrostatically. The electrostatic discharge is achieved by touching earthed metal parts. Do not grab directly at the plug contacts or electronic components.
- Remove the ABS hydraulic unit N55- with the ABS control unit J104- ⇒ page 55.
- Place the hydraulic unit with the control unit upwards on a clean and level surface.
- Remove screws -arrows-.

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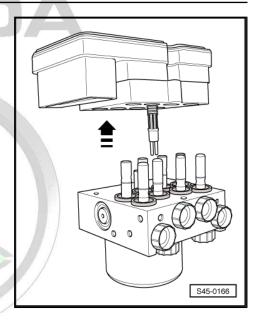
- Detach the control unit without tilting from the hydraulic unit -arrow-.
- Carefully pull off all gasket rings from the valve domes of the hydraulic unit.



WARNING

- On a disconnected control unit, the printed circuit board is exposed.
- No humidity or dirt particles must penetrate into the inside of the control unit.
- The hydraulic pump must not be separated from the hydraulic unit.
- Cover the solenoid coils of the control unit with a non-fluffing cloth.

After separating from the control unit and hydraulic unit use the transport protection for valve domes.



5.10 Attaching control unit to hydraulic unit poses, in part or in whole, is not permitted whose authorised by SKODA AUTO A. S. SKODA AUTO A. S. does not guarantee or accept any liability Right-hand drive the correctness of information in this document. Copyright by SKODA AUTO A. S.



WARNING

Strong vibrations (e.g. fall, knock) can destroy the control unit. The control unit must no longer be used.

- The surfaces must be cleaned before assembling.
- Push all the gasket rings -A- a little over the valve domes.
- Position the control unit without tilting it onto the hydraulic unit.

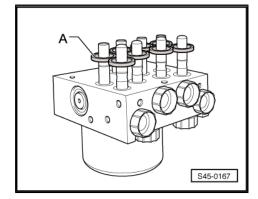
Thus the gasket rings are brought into their end position.

 Screw hydraulic unit and control unit with the enclosed new screws.



Note

- A new control unit may only be installed on the same hydraulic unit twice as a maximum to ensure that the elastic seal is still leak-tight.
- A control unit, which was once operational, must not be mounted a second time.



Specified torques:

Control unit to hydraulic unit 5.5 Nm

6 Hydraulic control unit, brake servo unit/master brake cylinder ABS Mark 60/Mark 60 EC (ABS/EDL/TCS/ESP (ESC))

Summary of components ABS Mark 60 - for left-hand drive up to MY 2008 ⇒ page 61

Summary of components ABS Mark 60 EC - for left-hand drive as of MY 2009 ⇒ page 64

Connect the brake lines from the master brake cylinder to the ABS hydraulic unit - left-hand drive ⇒ page 66

Removing and installing ABS control unit - J104- ABS hydraulic unit - N55- , left -hand drive vehicles <u>⇒ page 67</u>

Disconnecting control unit from hydraulic unit - Left-hand drive ⇒ page 72

Installing control unit to hydraulic unit - Left-hand drive ⇒ page 73

Summary of components ABS Mark 60 EC (ABS/EDL/TCS/ESP (ESC)) - right-hand drive ⇒ page 73

Connect the brake lines from the master brake cylinder to the ABS hydraulic unit - right-hand drive ⇒ page 75

Removing and installing ABS control unit - J104- / ABS hydraulic unit - N55- , right-hand drive vehicles ⇒ page 76

Separating the control unit from the hydraulic unit - Right-hand drive ⇒ page 79

Attaching the control unit to the hydraulic unit - Right-hand drive ⇒ page 80

6.1 Summary of components ABS Mark 60 - for left-hand drive up to MY 2008



Note

- ♦ Vehicles up to CW 21/2008 are fitted with the control unit for ABS Mark 60.
- ♦ Vehicles up to CW 22/2008 are fitted with the control unit for ABS Mark 60 EC. A sensor unit for ESP (ESC) -G419- is integrated in this control unit. Depending on the equipment, the control unit for ABS Mark 60 EC must not be fitted with these senders on vehicles with front-wheel drive.
- ♦ If the ABS hydraulic unit N55- is damaged, the ABS control unit J104- must be fully replaced with the ABS hydraulic unit N55- .
- ♦ The ABS control unit J104- can be separated from the ABS hydraulic unit N55- > page 72 .
- ♦ The hydraulic pump and the ABS hydraulic unit N55- must not be separated from each other.

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1 - ABS control unit - J104-

- with ABS hydraulic unit -N55-
- ☐ The ABS control unit -J104- and the ABS hydraulic unit - N55- must not be separated on vehicles with brake assistance or on vehicles as of CW 22/2008
- □ Removing and installing⇒ page 67
- Disconnecting the control unit from the hydraulic unit ⇒ page 72
- ☐ Fitting the control unit to the hydraulic unit ⇒ page 73

2 - Brake line, 14 Nm

- from master brake cylinder (push rod piston circuit) to ABS hydraulic unit
- □ Distinguishing feature:
 Ø 6.5 mm and pipe screw with long thread M12 x 1

3 - Brake line, 14 Nm

- from master brake cylinder (floating piston circuit) to ABS hydraulic unit
- □ Distinguishing feature:
 Ø 6.5 mm and pipe screw with long thread M12 x 1

6 1 28 23 9 10 22 11 21 12 26 25 24 13 14 15 19 16 17 18 S45-0264

4 - Brake line, 14 Nm

- □ to front left brake caliper
- ☐ Distinguishing feature: Ø 5.25 mm and pipe screw with short thread M12 x 1

5 - Brake line, 14 Nm

- ☐ To front right brake caliper.
- ☐ Distinguishing feature: Ø 5,25 mm and pipe screw with thread M10 x 1

6 - Brake line, 14 Nm

- to rear left brake caliper
- ☐ Distinguishing feature: Ø 5.25 mm and pipe screw with short thread M12 x 1

7 - Brake line, 14 Nm

- to rear right brake caliper
- ☐ Distinguishing feature: Ø 5,25 mm and pipe screw with thread M10 x 1

8 - Dummy plug

9 - Pressure sensor for the brake servo unit -G294-

- only on vehicles with petrol engines with brake vacuum pump
- □ Removing and installing ⇒ page 185
- ☐ Check ⇒ Vehicle diagnostic tester

10 - Vacuum line

■ with non-return valve

11 - G	Sasket Sasket
	for brake servo
12 - S	Sealing grommet
	for the connection of the vaccum hose
13 - E	Brake servo
	on petrol engines, the required negative pressure is drawn from the intake manifold or it is generated with a vacuum pump \Rightarrow page 178
	vehicles using a diesel engine are fitted with a vacuum pump for generating a low pressure ⇒ page 178
	Inspect proper operation:
_	With the engine off press down brake pedal repeatedly with force (this reduces the pressure already present in the device).
-	Now step on and hold brake pedal with medium pressure and start engine. If the brake servo is functioning properly, the brake pedal will be felt to go down as the servo takes effect.
	if there are faults replace completely Removing and installing <u>⇒ page 192</u>
14 - 8	Sealing ring
15 - N	Master brake cylinder
	cannot be repaired, replace completely in the event of faults
	Removing and installing ⇒ page 186
16 - T	he brake light switch - F- and brake pedal switch - F47-
	as of 11.05 mounted onto the master brake cylinder
	Removing and installing ⇒ page 149
	Check ⇒ Vehicle diagnostic tester
	Screw, 5 Nm Protection plate
	Nut, 25 Nm
	replace after each removal
	Sealing grommets
	moisten with brake fluid and press in brake fluid reservoir
	Brake fluid reservoir
	Screw cap
	leat protection plate
24 - S	Self-locking nut, 8 Nm
25 - S	Self-locking nut, 20 Nm
26 - C	Console
27 - S	Screw, 8 Nm

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28 - Mounting bracket

6.2 Summary of components ABS Mark 60 EC - for left-hand drive as of MY 2009



Note

- ♦ Vehicles up to CW 21/2008 are fitted with the control unit for ABS Mark 60.
- ♦ Vehicles up to CW 22/2008 are fitted with the control unit for ABS Mark 60 EC. A sensor unit for ESP (ESC) -G419- is integrated in this control unit. Depending on the equipment, the control unit for ABS Mark 60 EC must not be fitted with these senders on vehicles with front-wheel drive.
- ♦ If the ABS hydraulic unit N55- is damaged, the ABS control unit J104- must be fully replaced with the ABS hydraulic unit N55- .
- ◆ The ABS control unit J104- can be separated from the ABS hydraulic unit N55- <u>⇒ page 72</u>.
- ♦ The hydraulic pump and the ABS hydraulic unit N55- must not be separated from each other.

1 - ABS control unit - J104-

- with ABS hydraulic unit -N55-
- with integrated sensor unit for ESP (ESC) -G419-
- ☐ The ABS control unit -J104- and the ABS hydraulic unit - N55- must not be separated from each other
- Removing and installing
 ⇒ page 67
- Disconnecting the control unit from the hydraulic unit ⇒ page 72
- ☐ Fitting the control unit to the hydraulic unit ⇒ page 73

2 - Brake line, 14 Nm

- ☐ from master brake cylinder (push rod piston circuit) to hydraulic unit
- □ Distinguishing feature:
 Ø 6.5 mm and pipe
 screw with long thread
 M12 x 1

3 - Brake line, 14 Nm

- from master brake cylinder (floating piston circuit) to ABS hydraulic unit
- □ Distinguishing feature:
 Ø 6.5 mm and pipe screw with long thread M12 x 1

23 9 8 28 10 22 11 21 12 2 26 25 3 24 13 14 15 19 16 17 18 S45-0265

4 - Brake line, 14 Nm

- to front left brake caliper
- ☐ Distinguishing feature: Ø 5.25 mm and pipe screw with short thread M10 x 1

5 - Brake line, 14 Nm

☐ To front right brake caliper.

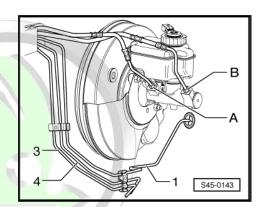
	Distinguishing feature: \varnothing 5,25 mm and pipe screw with thread M12 x 1
6 - Bı	rake line, 14 Nm
	to rear left brake caliper
	Distinguishing feature: Ø 5.25 mm and pipe screw with short thread M12 x 1
7 - Bı	rake line, 14 Nm
	to rear right brake caliper
	Distinguishing feature: Ø 5,25 mm and pipe screw with thread M10 x 1
8 - D	ummy plug
9 - Pı	ressure sensor for the brake servo unit -G294-
	only on vehicles with petrol engines with brake vacuum pump
	Removing and installing <u>⇒ page 185</u>
	Check ⇒ Vehicle diagnostic tester
	/acuum line
	with non-return valve
	Gasket
	for brake servo
	Sealing grommet
	for the connection of the vaccum hose
	Brake servo
	on petrol engines, the required negative pressure is drawn from the intake manifold or it is generated with a vacuum pump ⇒ page 178
	vehicles using a diesel engine are fitted with a vacuum pump for generating a low pressure ⇒ page 178
	Inspect proper operation:
-	With the engine off press down brake pedal repeatedly with force (this reduces the pressure already present in the device). The respect to the correctness of information in this document. Copyright by SKODA AUTO A. S. (
-	Now step on and hold brake pedal with medium pressure and start engine. If the brake servo is functioning properly, the brake pedal will be felt to go down as the servo takes effect.
	if there are faults replace completely
	Removing and installing ⇒ page 192
14 - 8	Sealing ring
	Master brake cylinder
	cannot be repaired, replace completely in the event of faults
	Removing and installing ⇒ page 186
16 - 1	The brake light switch - F- and brake pedal switch - F47-
	as of 11.05 mounted onto the master brake cylinder
	Removing and installing ⇒ page 149
	Check ⇒ Vehicle diagnostic tester
17 - 8	Screw, 5 Nm
18 - F	Protection plate
19 - 1	Nut, 25 Nm
	replace after each removal
20 - 8	Sealing grommets
	moisten with brake fluid and press in brake fluid reservoir

- 21 Brake fluid reservoir
- 22 Screw cap
- 23 Heat protection plate
- 24 Self-locking nut, 8 Nm
- 25 Self-locking nut; 20 Nm
- 26 Console
- 27 Screw, 8 Nm
- 28 Screw, 8 Nm
 - to bracket on console
- 29 Mounting bracket

6.3 Connecting the brake lines from the master brake cylinder to the ABS hydraulic unit - left-hand drive

Connect brake lines to the master brake cylinder

- A from master brake cylinder (push rod piston circuit) to ABS hydraulic unit
- Distinguishing feature: \varnothing 6,5 mm and pipe screw with thread M12 x 1
- B from master brake cylinder (floating piston circuit) to ABS hydraulic unit
- Distinguishing feature: \varnothing 6,5 mm and pipe screw with thread M12 x 1
- 1 Hydraulic unit to front left brake caliper
- 3 hydraulic unit to rear right brake caliper
- 4 hydraulic unit to rear left brake caliper



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Connect brake lines to the hydraulic unit.

- A from master brake cylinder (push rod piston circuit) to ABS hydraulic unit
- Distinguishing feature: Ø 6.5 mm and pipe screw with long thread M12 x 1
- B from master brake cylinder (floating piston circuit) to ABS hydraulic unit
- Distinguishing feature: Ø 6.5 mm and pipe screw with long thread M12 x 1
- 1 Hydraulic unit to front left brake caliper
- Distinguishing feature for vehicles up to CW 21/2008: Ø 5.25 mm and pipe screw with short thread M12 x 1
- Distinguishing feature for vehicles as of CW 22/2008: Ø 5.25 mm and pipe screw with short thread M10 x 1
- 2 Hydraulic unit to front right brake caliper
- Distinguishing feature for vehicles up to CW 21/2008: Ø 5.25 mm and pipe screw with thread M10 x 1
- Distinguishing feature for vehicles as of CW 22/2008: Ø 5.25 mm and pipe screw with short thread M12 x 1
- 3 hydraulic unit to rear right brake caliper
- Distinguishing feature: Ø 5,25 mm and pipe screw with thread $M10 \times 1$
- 4 hydraulic unit to rear left brake caliper
- Distinguishing feature: Ø 5.25 mm and pipe screw with short thread M12 x 1

6.4 Removing and installing ABS control unit - J104- ABS hydraulic unit - N55- left -hand drive vehicles

Special tools and workshop equipment required

◆ Brake pedal load e.g. -V.A.G 1869/2-

Removing:

Fitting location:

The control unit with the hydraulic unit is located on the right in the engine compartment. in this document. Copyright by ŠKODA AUTO A. S.@



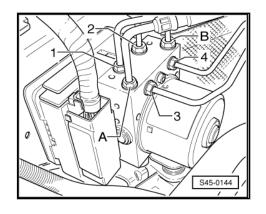
WARNING

The brake lines around the hydraulic unit must not be bent!

- Read out and note the actual control unit coding ⇒ Vehicle diagnostic tester.
- Remove battery ⇒ Electrical System; Rep. gr. 27.
- Remove engine cover.

1.9 ltr. diesel engine:

Remove connecting hose to inlet connection ⇒ Engine; Rep. gr. 21.





Remove intake manifold flap motor - V157- ⇒ Engine; Rep. gr. 23 (except vehicles with engine identification characters BJB).

2.0 ltr. diesel engine:

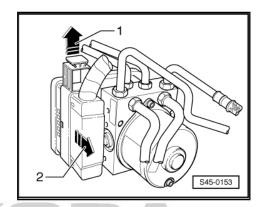
- Remove bulkhead plenum chamber ⇒ Body Work; Rep. gr. 66 .
- Remove connection pipe between intake hose and exhaust turbocharger.
- Remove top toothed belt guard.

Diesel engines with the diesel particle filter:

 Remove pre-exhaust pipe with diesel particle filter ⇒ diesel engine; Rep. gr. 26.

Continued for all vehicles:

- Release the in the -direction of arrow 1- and pull it off the control unit in the -direction of arrow 2-.
- Position brake pedal load, e.g. -V.A.G 1869/2-.
- Attach the bleeder hose of the bleeding bottle onto the vent valves of the front left and rear left brake caliper and open vent valves.
- Press down brake pedal with brake pedal load , e.g. -V.A.G 1869/2- , at least 60 mm.
- Close front left and rear left bleeder valves.
- Do not remove brake pedal load, e.g. -V.A.G 1869/2-.
- Place sufficient non-fluffing cloths under the control unit and the hydraulic unit.





Note

Make sure that no brake fluid gets onto the contacts of the plug connections.

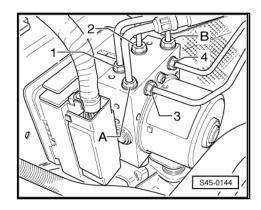


- Mark both brake lines from the master brake cylinder -A- and -B- and unscrew from the hydraulic unit.
- Close the brake lines and threaded holes immediately with plugs from the repair kit -1H0 698 311 A- .
- Mark the brake lines (for brake caliper) -1- to -4-, unscrew and close.
- Pull ABS hydraulic unit upwards and out of the rubber bearings



WARNING

The hydraulic pump and the ABS hydraulic unit - N55- must not be separated from each other.



Installing:



Note

- Only remove plugs from the new hydraulic unit if the relevant brake line is installed.
- If the plugs were already removed from the hydraulic unit, then brake fluid may escape and adequate filling and bleeding can no longer be guaranteed.

Screw the bracket for the ABS control unit onto the ABS control unit and tighten to the recommended tightening torque.

Moisten the bolt of the support ⇒ Item 29 (page 66) with lubricant, e.g. -D 007 000 A2-, before inserting into the rubber bearings.

Insert the ABS control unit with bracket into the rubber bearings of the console.



WARNING

Make sure that the rubber bearings are not pressed out of the console when installing the bracket. After installing, check the ABS control unit for tight fit, otherwise failure may be caused by a malfunctioning.

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- Connect the plug to the control unit against the -direction of arrow 2- and lock.
- Remove the plugs consecutively from the brake lines and the ABS control unit.
- Screw the marked brake lines onto the ABS control unit.

Diesel engines with the diesel particle filter:

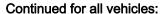
Install pre-exhaust pipe with diesel particle filter ⇒ diesel engine; Rep. gr. 26.

1.9 ltr. diesel engine:

- Install intake manifold flap motor V157- ⇒ Engine; Rep. gr.
 23 (except vehicles with engine identification characters BJB).
- Install connecting hose to inlet connection ⇒ Engine; Rep. gr. 21.



- Install top toothed belt guard.
- Install connection pipe between intake hose and exhaust turbocharger.
- Install the bulkhead plenum chamber ⇒ Body Work; Rep. gr. 66.



Install battery ⇒ Electrical System; Rep. gr. 27.



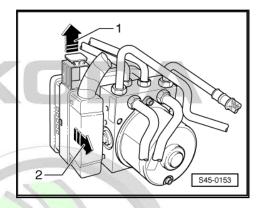
Note

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If the battery earth strap is disconnected and connected, carry out certain additional operations ⇒ Electrical System; Rep. gr. 27.

- Position engine cover.
- Remove brake pedal load e.g. -V.A.G 1869/2- .
- Bleed brake system ⇒ page 168.
- Code the control unit J104- ⇒ Vehicle diagnostic tester.

While doing so, a basic setting of the steering angle sender - G85-, the lateral acceleration sender - G200- and of the brake pressure sender 1 - G201- must be performed ⇒ Vehicle diagnostic tester



Specified torques:

Screw for hydraulic unit to bracket	8 Nm
Brake lines to ABS unit:	
	14 Nm
Thread M 12 x 1	14 Nm





6.5 Disconnecting control unit from hydraulic unit - Left-hand drive

- In the case of a malfunction of the ABS control unit J104-, the control unit must be disconnected from the ABS hydraulic unit - N55- and replaced individually.
- In the case of a malfunction of the ABS hydraulic unit N55-, the ABS hydraulic unit - N55- must be completely replaced together with the ABS control unit - J104-.



ŠKODA

Note

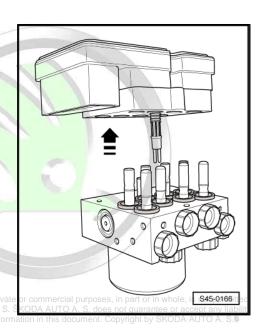
- ◆ The hydraulic pump V64- and ABS hydraulic unit N55- must not be separated from each other.
- ♦ On a disconnected ABS control unit J104-, the printed circuit board is exposed.
- ♦ No moisture and no dirt particles must penetrate into the interior of the ABS control unit J104-.
- Electrostatic charge can cause malfunctions of the ABS control unit - J104-.
- Before handling the ABS control unit J104-, the technician must discharge himself electrostatically. The electrostatic discharge is achieved by touching earthed metal parts. Do not grab directly at the plug contacts or electronic components.
- Remove the ABS hydraulic unit N55- with the ABS control unit - J104- ⇒ page 67.
- Place the hydraulic unit with the control unit upwards on a clean and level surface.
- Removing the screw of the control unit.
- Detach the control unit without tilting from the hydraulic unit -arrow-.
- Carefully pull off all gasket rings from the valve domes of the hydraulic unit.



WARNING

- On a disconnected control unit, the printed circuit board is exposed.
- No humidity or dirt particles must penetrate into the inside of the control unit.
- The hydraulic pump must not be separated from the hydraulic unit.
- Cover the solenoid coils of the control unit with a non-fluffing cloth

After separating from the control unit and hydraulic unit use the transport protection for valve domes.



6.6 Attaching control unit to hydraulic unit - Left-hand drive



WARNING

Strong vibrations (e.g. fall, knock) can destroy the control unit. The control unit must no longer be used.

- The surfaces must be cleaned before assembling.
- Push all the gasket rings -A- a little over the valve domes.
- Position the control unit without tilting it onto the hydraulic unit.

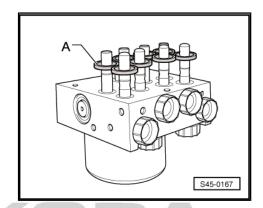
Thus the gasket rings are brought into their end position.

 Screw hydraulic unit and control unit with the enclosed new screws.



Note

- A new control unit may only be installed on the same hydraulic unit twice as a maximum to ensure that the elastic seal is still leak-tight.
- A control unit, which was once operational, must not be mounted a second time.



Specified torques:

Control unit to hydraulic unit 2 Nm + 0.8 Nm

6.7 Summary of components ABS Mark 60 EC (ABS/EDL/TCS/ESP) - right-hand drive



Note

- ♦ If the ABS hydraulic unit N55- is damaged, the ABS control unit J104- must be fully replaced with the ABS hydraulic unit N55- .
- ◆ The ABS control unit J104- can be separated from the ABS hydraulic unit N55- ⇒ page 79.
- ◆ The hydraulic pump and the ABS hydraulic unit N55- must not be separated from each other.



Octavia II 2004 ➤ , Octavia II 2010 ➤ Brake systems - Edition 11.2017

1 - Brake line

- from master brake cylinder (floating piston circuit) to ABS hydraulic unit
- ☐ Distinguishing feature: Ø 6,5 mm and pipe screw with thread M 12 × 1

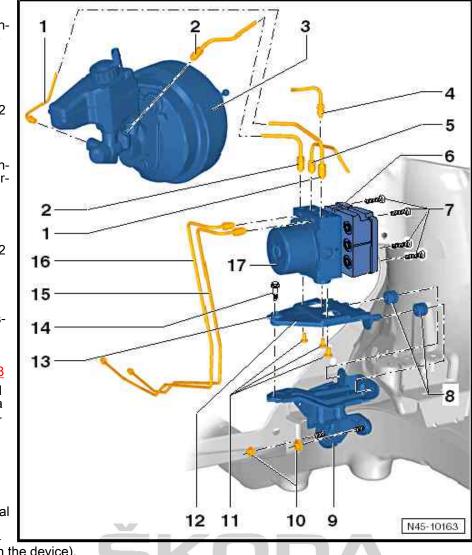
2 - Brake line

- from master brake cylinder (push rod piston circuit) to ABS hydraulic
 unit
- ☐ Distinguishing feature: Ø 6,5 mm and pipe screw with thread M 12 × 1

3 - Brake servo

- □ on petrol engines, the required negative pressure is drawn from the intake manifold or it is generated with a vacuum pump ⇒ page 178
- vehicles using a diesel engine are fitted with a vacuum pump for generating a low pressure
 ⇒ page 178
- ☐ Inspect proper operation:
- With the engine off press down brake pedal repeatedly with force (this reduces the pressure already present in the

sure already present in the device).



- Now step on and hold brake pedal with medium pressure and start engine. If the brake servo is functioning properly, the brake pedal will be felt to go down as the servo takes effect.
- ☐ if there are faults replace completely
- □ Removing and installing ⇒ page 195

4 - Brake line

- to front right brake caliper
- □ Distinguishing feature for vehicles up to CW 21/2008: Ø 5.25 mm and pipe screw with thread M10 x 1
- □ Distinguishing feature for vehicles as of CW 22/2008: Ø 5.25 mm and pipe screw with short thread M12 x 1

5 - Brake line

- to front left brake caliper
- □ Distinguishing feature for vehicles up to CW 21/2008: Ø 5.25 mm and pipe screw with short thread M12 x 1
- □ Distinguishing feature for vehicles as of CW 22/2008: Ø 5.25 mm and pipe screw with short thread M10 x 1

6 - ABS control unit - J104-

- ☐ The ABS control unit J104- and the ABS hydraulic unit N55- must not be separated from each other
- Removing and installing ⇒ page 7.6 ed by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted.
- □ Disconnecting the control unit from the hydraulic unit page 79 his document. Copyright by ŠKODA AUTO A. S. ®

Fitting the	control	unit to tl	he hydra	aulic unit :	⇒ page 80

7 - Screw, 2 Nm + 0.8 Nm

Replacing

8 - Rubber bearing

☐ make sure that the rubber bearings are not pressed out of the console when installing the bracket

9 - Console

□ before installing the rubber bearings ⇒ Item 8 (page 75), moisten the holes for rubber bearings with lubricant, e.g. -D 007 000 A2-

10 - Nut. 20 Nm

11 - Screw, 8 Nm

12 - Mounting bracket

- Moisten the bolt of the support with lubricant, e.g. -D 007 000 A2-, before inserting into the rubber bearings
- ☐ after installing, check for firm seating

13 - Rubber bearing

14 - Screw, 8 Nm

15 - Brake line

- to rear left brake caliper
- ☐ Distinguishing feature: Ø 5,25 mm and pipe screw with thread M 12 × 1

16 - Brake line

- to rear right brake caliper
- ☐ Distinguishing feature: Ø 5,25 mm and pipe screw with thread M 10 × 1

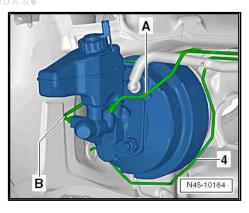
17 - ABS hydraulic unit - N55-

□ Removing and installing ⇒ page 76

6.8 Connecting the brake lines from the master brake cylinder to the ABS hy Protected drawlic unit 4 right-hand drive or accept any liability of the company of the compa

Connect brake lines to the master brake cylinder

- A from master brake cylinder (push rod piston circuit) to ABS hydraulic unit
- Distinguishing feature: \varnothing 6,5 mm and pipe screw with thread M 12 × 1
- B from master brake cylinder (floating piston circuit) to ABS hydraulic unit
- Distinguishing feature: \varnothing 6,5 mm and pipe screw with thread M 12 × 1
- 4 from the hydraulic unit to the front right brake caliper





Connect brake lines to the ABS hydraulic unit

A - from master brake cylinder (push rod piston circuit) to ABS hydraulic unit

- Distinguishing feature: \varnothing 6,5 mm and pipe screw with thread M 12 × 1
- B from master brake cylinder (floating piston circuit) to ABS hydraulic unit
- Distinguishing feature: \varnothing 6,5 mm and pipe screw with thread M 12 × 1
- 1 from hydraulic unit to front left brake caliper
- Distinguishing feature for vehicles up to CW 21/2008: \varnothing 5.25 mm and pipe screw with short thread M12 x 1
- Distinguishing feature for vehicles as of CW 22/2008: \varnothing 5.25 mm and pipe screw with short thread M10 x 1
- 2 from the hydraulic unit to the rear left brake caliper
- Distinguishing feature: \varnothing 5,25 mm and pipe screw with thread M 12 × 1
- 3 from the hydraulic unit to the rear right brake caliper
- Distinguishing feature: 5,25 mm and pipe screw with thread does not guarantee or accept any liability M 10 × 1 with respect to the correctness of information in this document. Copyright by ŠKODA AUTO A. S.®
- 4 from the hydraulic unit to the front right brake caliper
- Hydraulic unit to front right brake caliper
- Distinguishing feature for vehicles up to CW 21/2008: \varnothing 5.25 mm and pipe screw with thread M10 x 1
- Distinguishing feature for vehicles as of CW 22/2008: \varnothing 5.25 mm and pipe screw with short thread M12 x 1

6.9 Removing and installing ABS control unit - J104- / ABS hydraulic unit - N55- - right-hand drive

Special tools and workshop equipment required

- Brake pedal load e.g. -V.A.G 1869/2-
- ♦ Plugs from repair kit -1H0 698 311 A-

Removing

Fitting location:

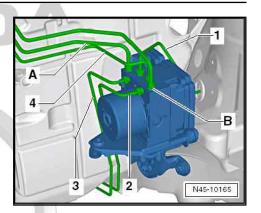
The ABS control unit is located on the left in the engine compartment.



WARNING

The brake lines around the hydraulic unit must not be bent!

- Read out and note the actual control unit coding ⇒ Vehicle diagnostic tester.
- Remove engine cover.
- Remove battery ⇒ Electrical System; Rep. gr. 27.
- Remove inlet connection and air filter \Rightarrow Engine; Rep. gr. 23 or \Rightarrow Engine; Rep. gr. 24 .



- Remove battery ⇒ Electrical System; Rep. gr. 27.
- Position brake pedal load , e.g. -V.A.G 1869/2- .
- Attach the bleeder hose of the bleeding bottle onto the vent valves of the front left and rear left brake caliper and open vent valves.
- Press down brake pedal with brake pedal load , e.g. -V.A.G 1869/2- , at least 60 mm.
- Close front left and rear left bleeder valves.



Note

Do not remove brake pedal load , e.g. -V.A.G 1869/2- .

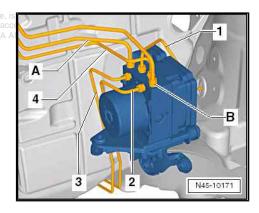
- Place sufficient non-fluffing cloths under the control unit and the hydraulic unit.
- Extract as much brake fluid as possible from the brake fluid reservoir.



Note

Make sure that no brake fluid gets onto the contacts of the plug connections.

- Mark both brake lines from the master brake cylinder -A- and or a
 -B- and unscrew from the hydraulic unit. This document copyright by SKODA
- Close the brake lines and threaded holes immediately with plugs from the repair kit -1H0 698 311 A- .
- Mark the brake lines (for brake calipers) -1- to -4-, unscrew and close with plugs from the repair kit -1H0 698 311 A- .



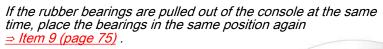


Octavia II 2004 ➤ , Octavia II 2010 ➤ Brake systems - Edition 11.2017

- Release the plug at the ABS control unit -in direction of arrow 1-.
- Disconnect the plug from the control unit in -direction of arrow 2-.
- Release screw -3-.
- Pull the ABS control unit with bracket out of the rubber bearings in the console in -direction of arrow 2-.
- Remove the ABS control unit and unscrew the bracket from the ABS control unit.



Note





WARNING

The hydraulic pump and the ABS hydraulic unit - N55- must not be separated from each other.

Installing



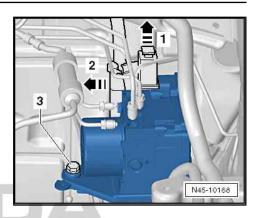
Note

- Only remove plugs from the new hydraulic unit if the relevant brake line is installed.
- If the plugs were already removed from the hydraulic unit, then brake fluid may escape and adequate filling and bleeding can no longer be guaranteed.
- Screw the bracket for the ABS control unit onto the ABS control unit and tighten to the recommended tightening torque.
- Moisten the bolt of the support ⇒ Item 12 (page 75) with lubricant, e.g. -D 007 000 A2-, before inserting into the rubber bearings.
- Insert the ABS control unit with bracket into the rubber bearings of the console.

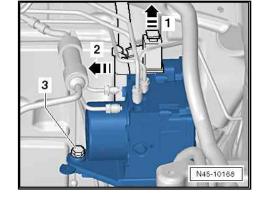


WARNING

Make sure that the rubber bearings are not pressed out of the console when installing the bracket. After installing, check the ABS control unit for tight fit, otherwise failure may be caused by a malfunctioning.



- Screw in screw -3- and tighten to the recommended tightening torque.
- Connect the plug to the control unit against the -direction of arrow 2- and lock.
- Remove the plugs consecutively from the brake lines and the ABS control unit.
- Screw the marked brake lines onto the ABS control unit.
- Install battery tray ⇒ Electrical System; Rep. gr. 27.
- Install inlet connection and air filter ⇒ Engine; Rep. gr. 23 or
 ⇒ Engine; Rep. gr. 24 .
- Install battery ⇒ Electrical System; Rep. gr. 27.





Note

If the battery earth strap is disconnected and connected, carry out certain additional operations ⇒ Electrical System; Rep. gr. 27.

- Position engine cover.
- Remove brake pedal load e.g. -V.A.G 1869/2- .
- Bleed brake system ⇒ page 168.
- Code the control unit J104- ⇒ Vehicle diagnostic tester.

While doing so, a basic setting of the steering angle sender - G85- , the lateral acceleration sender - G200- and of the brake pressure sender 1 - G201- must be performed \Rightarrow Vehicle diagnostic tester.

Specified torques:	
Bracket to ABS control unit	8 Nm
Screw for bracket to console	8 Nm
Brake lines to ABS unit:	
Thread M 10 x 1	14 Nm
Thread M 12 x 1	14 Nm

6.10 Separating the control unit from the hydraulic unit - Right-hand drive

- ♦ In the case of a malfunction of the ABS control unit J104-, the control unit must be disconnected from the ABS hydraulic unit - N55- and replaced individually.
- ♦ In the case of a malfunction of the ABS hydraulic unit N55-, the ABS hydraulic unit - N55- must be completely replaced together with the ABS control unit - J104-.





Note

- ◆ The hydraulic pump V64- and ABS hydraulic unit N55- must not be separated from each other.
- On a disconnected ABS control unit J104-, the printed circuit board is exposed.
- ♦ No moisture and no dirt particles must penetrate into the interior of the ABS control unit J104- .
- Electrostatic charge can cause malfunctions of the ABS control unit J104-.
- Before handling the ABS control unit J104-, the technician must discharge himself electrostatically. The electrostatic discharge is achieved by touching earthed metal parts. Do not grab directly at the plug contacts or electronic components.
- Remove the ABS hydraulic unit N55- with the ABS control unit J104- ⇒ page 67.
- Place the hydraulic unit with the control unit upwards on a clean and level surface.
- Removing the screw of the control unit.
- Detach the control unit without tilting from the hydraulic unit -arrow-.
- Carefully pull off all gasket rings from the valve domes of the hydraulic unit.



WARNING

- On a disconnected control unit, the printed circuit board is exposed.
- No humidity or dirt particles must penetrate into the inside of the control unit.
- The hydraulic pump must not be separated from the hydraulic unit.
- Cover the solenoid coils of the control unit with a non-fluffing cloth

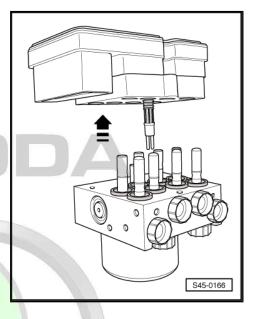
After separating from the control unit and hydraulic unit use the transport protection for valve domes.





WARNING

Strong vibrations (e.g. fall, knock) can destroy the control unit. The control unit must no longer be used.



- Push all the gasket rings -A- a little over the valve domes.
- Position the control unit without tilting it onto the hydraulic unit.

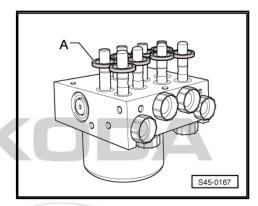
Thus the gasket rings are brought into their end position.

 Screw hydraulic unit and control unit with the enclosed new screws.



Note

- ♦ A new control unit may only be installed on the same hydraulic unit twice as a maximum to ensure that the elastic seal is still leak-tight.
- ♦ A control unit, which was once operational, must not be mounted a second time.



Specified torques:

Control unit to hydraulic unit 2 Nm + 0.8 Nm



7 Removing and Installing parts of the ABS System on the front and rear axle

Remove and install parts of the ABS system on the front axle ⇒ page 82

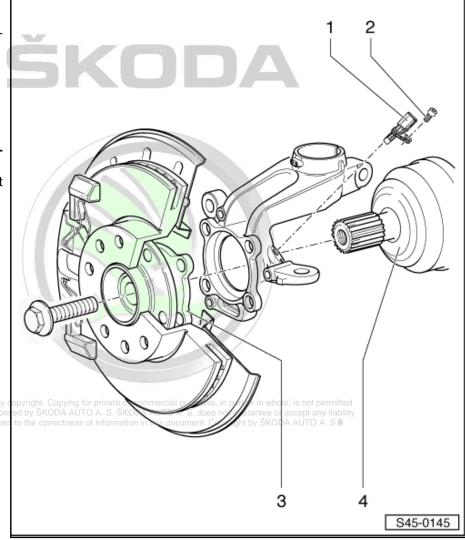
Remove and install parts of the ABS system on the rear axle (front-wheel drive) \Rightarrow page 85

Remove and install parts of the ABS system on the rear axle (four-wheel drive) ⇒ page 88

7.1 Removing and installing parts of the ABS system on the front axle

1 - ABS wheel speed sensor

- clean the inner surface of the hole before inserting the sensor and brush over with a hot bolt paste -G 052 112 A3 - .
- □ Replace ⇒ page 82
- 2 Screw, 8 Nm
- 3 Wheel hub with wheel bearing
 - Sensor ring for ABS built into the wheel bearing
- 4 Drive shaft



7.1.1 Removing and installing the ABS speed sensor on the front axle

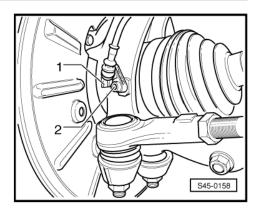
Removing:

- Raise vehicle.

- Separate plug connection -1- of ABS speed sensor/wheel speed sensor cable.
- Release screw -2- from the wheel-bearing housing.
- Take the ABS-speed sensor out of the wheel bearing housing.

Installing:

- Clean the inner surface of the hole before inserting the ABS speed sensor and brush over the ABS speed sensor with a hot screw paste - G 052 112 A3- .
- Insert the ABS speed sensor in the bore of the wheel-bearing housing and tighten the screw.
- Connect the plug connection on the ABS speed sensor.









Tightening torque:

ABS speed sensor in wheel-bearing housing 8 Nm

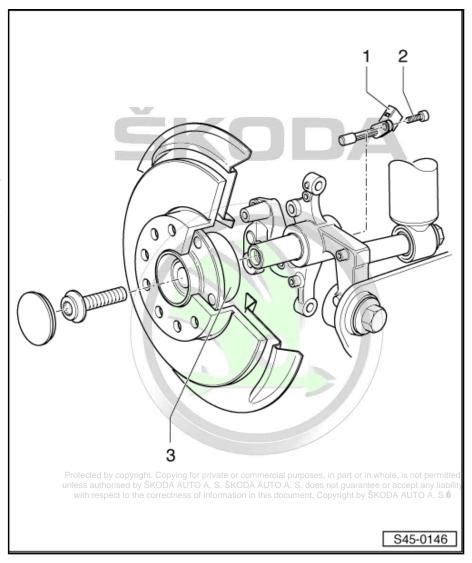




7.2 Removing and installing parts of the ABS system on the rear axle (front-wheel drive)

1 - ABS wheel speed sensor

- clean the inner surface of the hole before inserting the sensor and brush over with a hot bolt paste -G 052 112 A3 - .
- □ Removing and installing⇒ page 85
- 2 Screw, 8 Nm
- 3 Wheel hub with wheel bearing
 - Sensor ring for ABS built into the wheel bearing



7.2.1 Removing and installing the ABS speed sensor on the rear axle

Removing:

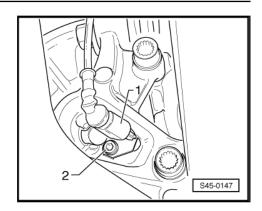
- Raise vehicle.



- Separate plug connection -1- of ABS speed sensor/wheel speed sensor cable.
- Release screw -2- from the wheel-bearing housing.
- Take the ABS-speed sensor out of the wheel bearing housing.

Installing:

- Clean the inner surface of the hole before inserting the ABS speed sensor and brush over the ABS speed sensor with a hot screw paste - G 052 112 A3-.
- Insert the ABS speed sensor in the bore of the wheel-bearing housing and tighten the screw.
- Connect the plug connection on the ABS speed sensor.







Tightening torque:

ABS speed sensor in wheel-bearing housing 8 Nm

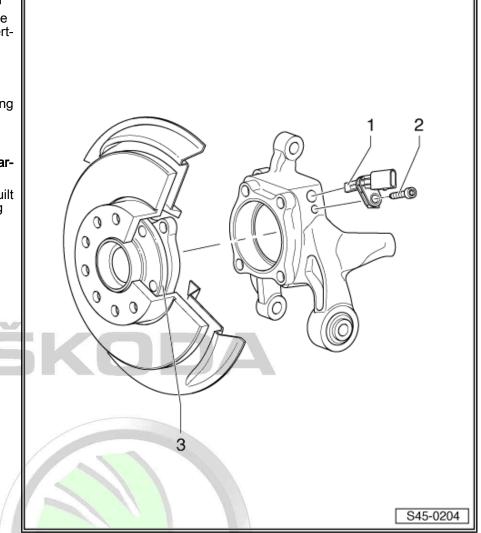




7.3 Removing and installing parts of the ABS system on the rear axle (four-wheel drive)

1 - ABS wheel speed sensor

- clean the inner surface of the hole before inserting the sensor and brush over with a hot bolt paste -G 052 112 A3 - .
- □ Removing and installing⇒ page 88
- 2 Screw, 8 Nm
- 3 Wheel hub with wheel bearing
 - Sensor ring for ABS built into the wheel bearing



7.3.1 Removing and installing the ABS speed sensor on the rear axle

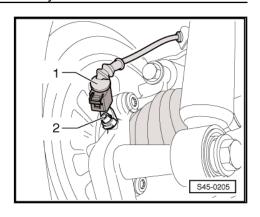
Removing:

Raise vehicle.

- Separate plug connection -1- of ABS speed sensor/wheel speed sensor cable.
- Release screw -2- from the wheel-bearing housing.
- Take the ABS-speed sensor out of the wheel bearing housing.

Installing:

- Clean the inner surface of the hole before inserting the ABS speed sensor and brush over the ABS speed sensor with a hot screw paste - G 052 112 A3-.
- Insert the ABS speed sensor in the bore of the wheel-bearing housing and tighten the screw.
- Connect the plug connection on the ABS speed sensor.









Tightening torque:

ABS speed sensor in wheel-bearing housing 8 Nm





8 Removing and installing parts of the ESP (ESC) system

Remove and install sensor unit for ESP (ESC) - G419-⇒ page 91

Removing and installing steering angle sender - G85-⇒ page 93

8.1 Removing and installing sensor unit for ESP (ESC) - G419-

For vehicles up to CW 21/2008:

Up to CW 21/2008 the sensor unit for ESP (ESC) -G419- (includes: lateral acceleration sender - G200- , yaw rate sender - G202- and longitudinal acceleration sender - G251-) is fitted under the right front seat.

After replacing the ESP (ESC) sensor unit -G419-, a basic setting of the lateral acceleration sender -G200- must be performed. On vehicles with four-wheel drive and on vehicles with HHC system, perform the setting of the longitudinal acceleration sender as well -G251- ⇒ Vehicle diagnostic tester.



WARNING

Strong vibrations (e.g. fall, knock) can destroy the sensor unit for ESP (ESC) - G419-. The sensor unit for ESP (ESC) - G419must no longer be used.

Removing:

- Remove the right front seat ⇒ Body Work; Rep. gr. 72.
- Remove the sill panel ⇒ Body Work; Rep. gr. 68 and lift up the carpet.
- Unplug plug -1- from the sensor unit for ESP G419-.
- Unscrew the two securing nuts -arrows-.
- Remove the ESP (ESC) sensor unit G419-.

Installing:

Installation is carried out in the reverse order.

Pay attention to the fitting position of the ESP (ESC) sensor unit ⇒ Fig. S45-0148.

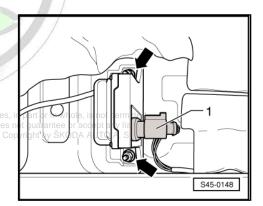
When installing the ESP (ESC) sensor unit, the correct and stress-free position on the fixture must be ensured.



Note

Never fit the ESP (ESC) sensor unit into position using fixing nuts.

- Tighten fixing nuts.
- Perform basic setting of lateral acceleration sender G200-⇒ Vehicle diagnostic tester. On vehicles with four-wheel drive and on vehicles with HHC system, perform the setting of the longitudinal acceleration sender as well -G251- ⇒ Vehicle diagnostic tester





Tightening torque:

Fixing nuts ESP (ESC) sensor unit - G419- 9 Nm





For vehicles as of CW 22/2008:

As of CW 22/2008 the sensor unit for ESP (ESC) -G419- (includes: lateral acceleration sender - G200- , yaw rate sender - G202- and longitudinal acceleration sender - G251-) is integrated in the ABS control unit -J104- \Rightarrow page 21 .

8.2 Removing and installing steering angle sender - G85-

For right-hand drive up to CW 21/2008 and left-hand drive up to CW 21/2009:

The steering angle sender is installed between the steering wheel and the steering-column control.

Removing and installing

- ⇒ Electrical System; Rep. gr. 94.
- Then the basic setting of the steering angle sender G85- must be performed ⇒ Vehicle diagnostic tester.

For right-hand drive as of CW 22/2008 and left-hand drive as of CW 22/2009:

Right-hand drive as of CW 22/2008 and left-hand drive as of CW 22/2009 - the steering angle sender - G85- is integrated in the steering gear.

46 – Brakes - mechanism

1 Repairing front wheel brake

Changing the brake pads of the front brake - Mounting instructions ⇒ page 94

Repairing front wheel brake, floating caliper disc brake FS-III ⇒ page 95

Removing and installing brake pads, floating caliper disc brake FS-III ⇒ page 96

Removing and installing brake caliper, floating caliper disc brake FS-III ⇒ page 100

Repairing front wheel brake, brake caliper FN3 ⇒ page 103

Removing and installing brake pads, brake caliper FN3 ⇒ page 104

Removing and installing brake caliper, brake caliper FN3 ⇒ page 108

1.1 Changing the brake pads of the front brake - Mounting instructions

When changing the pads, pay attention to the following points:

- Check protective collar of brake calliper piston.

Replace protective cap if damaged.

When replacing the protective cap:

 Check the contact surfaces of the brake piston and the brake caliper for any dirt (oxidation).

Carefully clean the piston as well as the brake caliper if dirty and replace the sealing cap.

 Check the brake piston and the brake caliper (corrosion, grooves on the outside of the cylinder surface), replace the brake caliper completely if damaged.

For brake caliper piston, press into the initial position:

Check if the piston can be slightly pressed into the brake caliper.

If the piston cannot be slightly pressed into the brake caliper:

 Check and clean the brake piston as well as the brake caliper, replace sealing sleeve and protective cap.

Replace the brake caliper completely if damaged.



1.2 Repairing front wheel brake, floating caliper disc brake FS-III



Note

- ♦ Observe the instructions for changing the pad > page 94
- ♦ Brake inspection <u>⇒ page 8</u>.
- After replacing the brake pads, depress brake pedal firmly several times when the vehicle is stationary to ensure the brake pads are properly seated in their normal operating position.
- Use the brake filling and bleeding device, e.g. -VAS 5234-, to drain the brake fluid from the brake fluid reservoir.
- Use brake pedal loader, e.g. -V.A.G 1869/2- before removing a brake caliper or separating a brake hose from the brake caliper

1 - Screw, 12 Nm

2 - Brake disc

- internally ventilated
- Assignment, dimensions and wear limit⇒ page 1
- always replace axlewise
- unscrew the brake caliper before removing

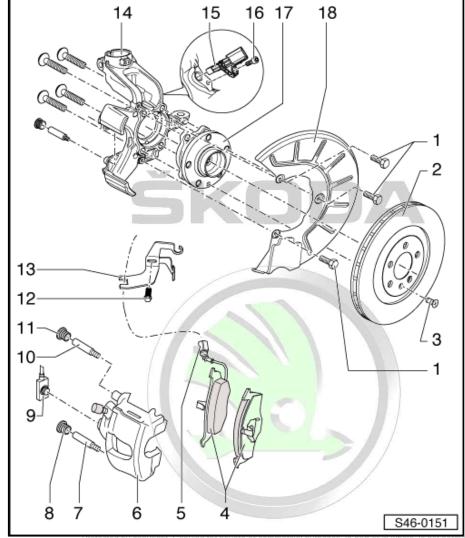
3 - Screw, 4 Nm

4 - Brake pads

- Assignment, dimensions and wear limit⇒ page 1
- with wear indicator (on the left side of the vehicle)
- if worn (pad thickness without supporting plate approx 4 mm) the brake pad warning light - K32lights up in the dash panel insert
- always replace axlewise
- □ Removing and installing⇒ page 96
- Observe the instructions for changing the pad ⇒ page 94

5 - Connector

for brake pad wear indicator



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6 - Brake caliper

- do not unscrew the brake hose when replacing the brake pad
- ☐ Removing and installing ⇒ page 100
- □ repairing ⇒ page 153
- Observe the instructions for changing the pad ⇒ page 94

- 7 Guide bolt, 30 Nm
- 8 Cap
 - □ remove
- 9 Brake hose with banjo union and hollow screw, 35 Nm
- 10 Guide bolt, 30 Nm
- 11 Cap
 - □ remove
- 12 Screw, 15 Nm
- 13 Mounting bracket
- 14 Wheel bearing housing
 - with integrated brake carrier
 - □ Version of wheel-bearing housing with three or four connecting screws ⇒ chassis, axles, steering; Rep. gr. 40
- 15 ABS wheel speed sensor
 - clean the inner surface of the hole before inserting the sensor and brush over with a hot bolt paste G
 052 112 A3- .
- 16 Screw, 8 Nm
- 17 Wheel hub with wheel bearing
 - Sensor ring for ABS is built into the wheel hub
 - □ Version of wheel-bearing housing with three or four connecting screws ⇒ chassis, axles, steering; Rep. gr. 40
- 18 Protection plate

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1.3 "Removing and installing brake pads, or accept any liability floating caliper disc brake FS-III

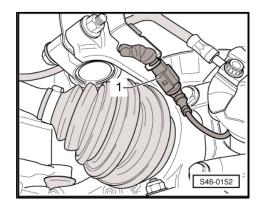
Special tools and workshop equipment required

♦ Piston jig - T10145-

Removing:

Mark brake pads/linings when removing if they are to be reused. Fit in same position when installing, or braking will be uneven!

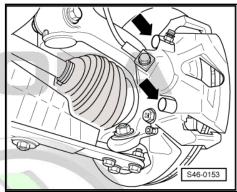
- Remove wheels.
- Disconnect the plug connection -1- for the brake pad wear indicator.





Remove caps -arrows-.





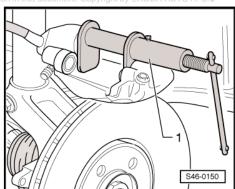
- Loosen and remove the two guide bolts -arrows- from the brake caliper.
- Remove brake caliper and secure with wire so that weight of brake caliper does not strain or damage brake hose.
- Take the brake pads out of the brake caliper.
- Clean brake caliper.

Only use alcohol to clean the brake caliper housing.

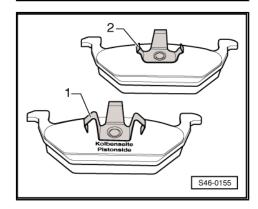
Installing:

Drain the brake fluid from the brake fluid reservoir before the piston is pushed with the piston jig into the cylinder. Otherwise, particularly if reservoir has been topped up, fluid will overflow and cause damage.

Push piston back with piston jig - T10145- -1-.



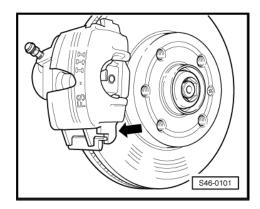
- Insert inside brake pad (piston side) -1- and outside brake pad -2- with retaining springs into the brake caliper.
- ♦ Inside brake pad (piston side) with large 3-finger clip -1-.
- Outside brake pad with small 3-finger clip -2- (black in colour).





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 First, position the brake caliper with the brake pads at the bottom -arrow- of the brake carrier.

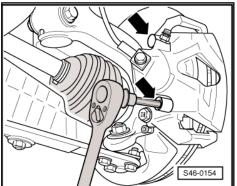


- Screw the brake caliper with both guide bolts to the brake carrier.
- The bolt of the brake caliper must be located behind the guide of the brake carrier!
- Insert both caps.
- Mount the plug connection of the brake pad wear indicator.
- Attach the wheels.



Note

- ♦ Observe the instructions for changing the pad <u>⇒ page 94</u>
- ♦ After each brake pad replacement, forcefully apply the brake pedal repeatedly to ensure the brake pads go into their normal operating position.
- Check brake fluid level after changing brake pads.





Specified torques:

Guide bolt on brake carrier	30 Nm
Wheel bolts	120 Nm



1.4 Removing and installing brake caliper, floating caliper disc brake FS-III

Special tools and workshop equipment required

♦ Brake pedal load e.g. -V.A.G 1869/2-

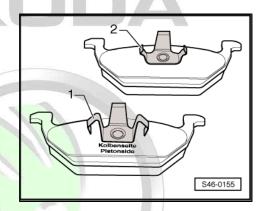
Removing:

This procedure applies only to exchanging or the following repair work on the brake caliper.

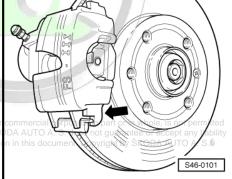
- Remove wheels.
- Disconnect the connector for the brake pad wear indicator.
- Attach the bleeder hose of the bleeding bottle onto the vent valve of the brake caliper and then open then bleeder valve.
- Position brake pedal load, e.g. -V.A.G 1869/2-.
- Close the vent valve and remove the bleeding bottle.
- Unscrew brake hose.
- Remove both caps out of the bushings of the brake caliper.
- Loosen and remove the two guide bolts from the brake caliper.
- Remove brake caliper from brake carrier
- Take out the brake pads from the brake caliper.

Installing:

- · The piston is pushed back.
- Insert inside brake pad (piston side) -1- and outside brake pad
 -2- with retaining springs into the brake caliper.
- ◆ Inside brake pad (piston side) with large 3-finger clip -1-.
- ◆ Outside brake pad with small 3-finger clip -2- (black in colour).



 First, position the brake caliper with the brake pads at the bottom -arrow- of the brake carrier.



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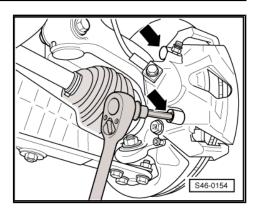
- Screw the brake caliper with both guide bolts to the brake carrier.
- The bolt of the brake caliper must be located behind the guide of the brake carrier!
- Insert both caps.
- Bolt brake hose to brake caliper.
- Remove brake pedal load , e.g. -V.A.G 1869/2- .
- Mount the plug connection of the brake pad wear indicator.
- Bleed brake system ⇒ page 168.
- Attach the wheels.



Note

- ◆ Observe the instructions for changing the pad ⇒ page 94
- Firmly depress brake pedal several times with vehicle stationary so that the brake pads are properly seated in their normal operating position.
- ♦ Check brake fluid level.







Specified torques:

Guide bolt on brake carrier	30 Nm
Brake hose to brake caliper	35 Nm
Wheel bolts	120 Nm

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1.5 Repairing front wheel brake, brake caliper FN3



Note

- ◆ Observe the instructions for changing the pad ⇒ page 94
- ♦ Brake inspection <u>⇒ page 8</u>
- ♦ After replacing the brake pads, depress brake pedal firmly several times when the vehicle is stationary to ensure the brake pads are properly seated in their normal operating position.
- ♦ Use the brake filling and bleeding device , e.g. -VAS 5234- , to drain the brake fluid from the brake fluid reservoir.
- Use brake pedal loader, e.g. -V.A.G 1869/2- before removing a brake caliper or separating a brake hose from the brake caliper

1 - Screw, 4 Nm

2 - Brake disc

- □ internally ventilated
- Assignment, dimensions and wear limit⇒ page 1
- always replace axlewise
- unscrew the brake caliper before removing

3 - Brake pads

- Assignment, dimensions and wear limit⇒ page 1
- with wear indicator (on the left side of the vehicle)
- if worn (pad thickness without supporting plate approx 4 mm) the brake pad warning light - K32lights up in the dash panel insert
- always replace axlewise
- □ Removing and installing⇒ page 104
- Observe the instructions for changing the pad ⇒ page 94

4 - Spring

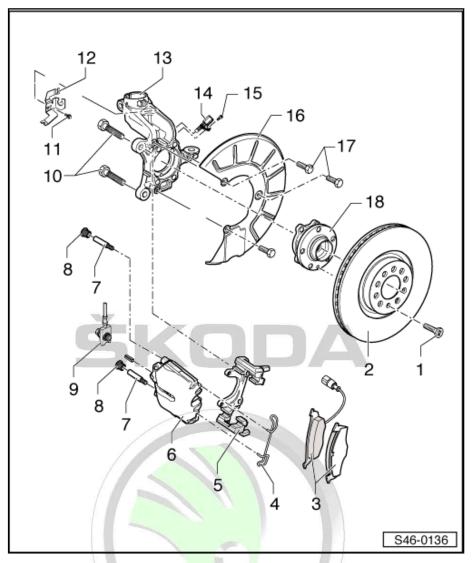
 inserted into both bore holes of the brake caliper

5 - Brake carrier

screwed onto the wheel-bearing housing

6 - Brake caliper

- ☐ Observe the instructions for changing the pad page 94
- do not unscrew the brake hose when replacing the brake pad
- □ Removing and installing ⇒ page 108





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- □ repairing ⇒ page 155
- 7 Guide bolt, 30 Nm
- 8 Cap
 - □ remove
- 9 Brake hose with banjo union and hollow screw, 35 Nm
- 10 Screw, 190 Nm
 - clean when using again
- 11 Screw, 15 Nm
- 12 Mounting bracket
- 13 Wheel bearing housing
 - with bolted brake carrier
- 14 ABS wheel speed sensor
 - clean the inner surface of the hole before inserting the sensor and brush over with a hot bolt paste G 052 112 A3-.
- 15 Screw, 8 Nm
- 16 Protection plate
- 17 Screw 12 Nm
- 18 Wheel hub with wheel bearing
 - ☐ Sensor ring for ABS is built into the wheel hub

1.6 Removing and installing brake pads, brake calliper FN3

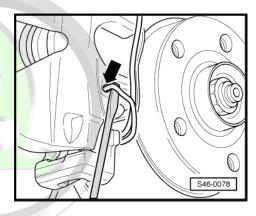
Special tools and workshop equipment required

♦ Piston jig - T10145-

Removing:

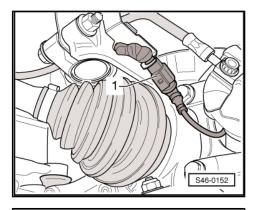
Mark brake pads/linings when removing if they are to be reused. Fit in same position when installing, or braking will be uneven!

- Remove wheels.
- Lever up the retaining spring of the brake pads out of the brake caliper -arrow- using a screwdriver and remove.

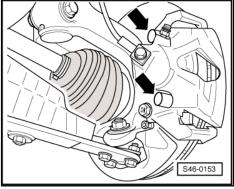




Disconnect the plug connection -1- for the brake pad wear indicator.



Remove caps -arrows-.



- Loosen and remove the two guide bolts -arrows- from the brake caliper.
- Remove brake caliper and secure with wire so that weight of brake caliper does not strain or damage brake hose.
- Take out the brake pads from the brake caliper or from the brake carrier.
- Clean the brake caliper, in particular the adhesive surface for the brake pad must be free from glue residues and grease.

Only use alcohol to clean the brake caliper housing.

Installing:

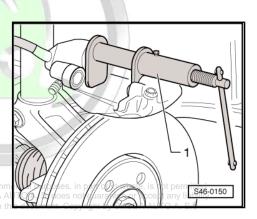
Drain the brake fluid from the brake fluid reservoir before the piston is pushed with the piston jig into the cylinder. Otherwise, particularly if reservoir has been topped up, fluid will overflow and cause damage.



- Remove the protective foil from the supporting plate of the outer brake pad.
- Place the outer brake pad on the brake carrier.
- Insert the inner brake pad with retaining spring into the brake caliper (piston).

When installing the brake caliper make sure that the brake pad does not stick to the brake caliper before reaching its correct installed position.

Do not damage the surface to be glued authorised by ŠKODA AUTO A. S. ŠKODA with respect to the correctness of information in





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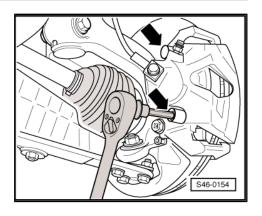
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- Screw the brake caliper with both guide bolts to the brake carrier.
- Insert both caps.
- Insert retaining spring in brake caliper.
- Mount the plug connection of the brake pad wear indicator.
- Attach the wheels.



Note

- ♦ Observe the instructions for changing the pad <u>⇒ page 94</u>
- ♦ After each brake pad replacement, forcefully apply the brake pedal repeatedly to ensure the brake pads go into their normal operating position.
- ♦ Check brake fluid level after changing brake pads.







Specified torques:

Guide bolt on brake carrier	30 Nm
Brake hose to brake caliper	35 Nm
Wheel bolts	120 Nm





1.7 Removing and installing brake caliper, brake caliper FN3

Special tools and workshop equipment required

◆ Brake pedal load e.g. -V.A.G 1869/2-

Removing:



Note

This procedure applies only to exchanging or the following repair work on the brake caliper.

- Remove wheels.
- Lever up the retaining spring of the brake pads out of the brake caliper using a screwdriver and remove.
- Disconnect the connector for the brake pad wear indicator.
- Attach the bleeder hose of the bleeding bottle onto the vent valve of the brake caliper and then open then bleeder valve.
- Position brake pedal load , e.g. -V.A.G 1869/2- .
- Close the vent valve and remove the bleeding bottle.
- Unscrew brake hose.
- Remove both caps out of the bushings of the brake caliper.
- Loosen and remove the two guide bolts from the brake caliper.
- Remove brake caliper from brake carrier
- Take out the brake pads from the brake caliper.

Installing:

- · The piston is pushed back.
- The outside brake pad is fitted on the brake carrier.
- Insert the inner brake pad with retaining spring into the brake loes not guarantee or accept any liability caliper (piston).

When installing the brake caliper make sure that the brake pad does not stick to the brake caliper before reaching its correct installed position.

Do not damage the surface to be glued.

- Screw the brake caliper with both guide bolts to the brake carrier.
- Insert both caps.
- Bolt brake hose to brake caliper.
- Remove brake pedal load , e.g. -V.A.G 1869/2- .
- Insert retaining spring in brake caliper.
- Mount the plug connection of the brake pad wear indicator.
- Bleed brake system ⇒ page 168.
- Attach the wheels.



- Observe the instructions for changing the pad ⇒ page 94
- Firmly depress brake pedal several times with vehicle stationary so that the brake pads are properly seated in their normal operating position.
- ♦ Check brake fluid level.







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Specified torques:

Guide bolt on brake carrier	30 Nm
Brake hose to brake caliper	35 Nm
Wheel bolts	120 Nm





2 Repairing rear brake

Changing the brake pads of the rear brake - Mounting instructions ⇒ page 111

Repairing rear brake CII 41 (vehicles with front and four-wheel drive) <u>⇒ page 112</u>

Removing and installing brake pads CII 41 ⇒ page 114

Removing and installing brake pad CII 41 ⇒ page 117

Repairing rear brake CI 38 (vehicles with front-wheel drive) ⇒ page 119

Removing and installing brake pads CI 38 ⇒ page 120

Removing and installing brake caliper CI 38 ⇒ page 123

Repairing rear brake Bosch BIRIII (vehicles with front and fourwheel drive) ⇒ page 125

Removing and installing brake pads Bosch BIRIII ⇒ page 126

Removing and installing brake caliper Bosch BIRIII ⇒ page 130

2.1 Changing the brake pads of the rear brake - Mounting instructions

When changing the pads, pay attention to the following points:

Check protective collar of brake calliper piston.

Replace protective cap if damaged.

When replacing the protective cap:

Check the contact surfaces of the brake piston and the brake caliper for any dirt (oxidation).

Carefully clean the piston as well as the brake caliper if dirty and replace the sealing cap.

Check the brake piston and the brake caliper (corrosion, grooves on the outside of the cylinder surface), replace the brake caliper completely if damaged.

For brake caliper piston, press into the initial position:

Check if the piston can be slightly pressed into the brake cal-If the piston cannot be slightly pressed into the brake caliper:

Check and clean the brake piston as well as the brake caliper, replace sealing sleeve and protective cap.

Replace the brake caliper completely if damaged.

2.2 Repairing rear brake CII 41 (vehicles with front and four-wheel drive)



Note

- ♦ Observe the instructions for changing the pad <u>⇒ page 111</u>
- ♦ Brake inspection ⇒ page 8.
- ♦ After replacing the brake pads, depress brake pedal firmly several times when the vehicle is stationary to ensure the brake pads are properly seated in their normal operating position.
- Use the brake filling and bleeding device, e.g. -VAS 5234-, to drain the brake fluid from the brake fluid reservoir.
- ♦ Use brake pedal loader , e.g. -V.A.G 1869/2- before removing a brake caliper or separating a brake hose from the brake caliper

1 - ABS speed sensor (vehicles with front-wheel drive)

 clean the inner surface of the hole before inserting the sensor and brush over with a hot bolt paste -G 052 112 A3-.

2 - Screw, 8 Nm

3 - Screw, 90 Nm + 90°

replace after each removal

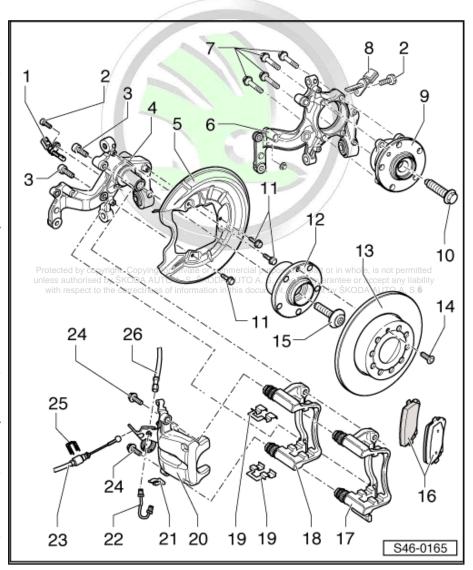
4 - Wheel-bearing housing (vehicles with front-wheel drive)

5 - Protection plate

- up to 05/2007 for wheel bearing housing in steel casting with 3 holes
- as of 06/2007 for aluminium wheel bearing housing with 4 holes
- □ Assignment ⇒ Electronic Catalogue of Original parts

6 - Wheel-bearing housing (vehicles with four-wheel drive)

- different versions
- up to 05/2007 steel casting version
- as of 06/2007 aluminium version
- Assignment ⇒ Electronic Catalogue of Original parts



7 - Tighten screw 70 Nm + 90° (vehicles with four-wheel drive)

replace after each removal

8 - AE	BS speed sensor (vehicles with four-wheel drive)
9 - W	heel hub with wheel bearing (vehicles with four-wheel drive)
<u> </u>	Screw (vehicles with four-wheel drive) Hexagon screw = 180 Nm + torque a further 180° ⇒ chassis, axles, steering; Rep. gr. 42 Twelve-sided bolt = 70 Nm + torque a further 90° ⇒ chassis, axles, steering; Rep. gr. 42 replace after each removal
	Screw, 12 Nm
<u> </u>	up to 05/2007 wheel bearing housing in steel casting and 3 screws as of 06/2007 aluminium wheel bearing housing and 4 screws Assignment ⇒ Electronic Catalogue of Original parts
12 - V	Vheel hub with wheel bearing (vehicles with front-wheel drive)
0	Brake disc Assignment, dimensions and wear limit ⇒ page 1 if worn replace axle-wise unscrew the brake caliper before removing Borrew, 4 Nm
15 - T	Fighten screw 180 Nm + 180° (vehicles with front-wheel drive)
	replace after each removal
⇒ Ch	nassis, axles, steering; Rep. gr. 42
0	Assignment, dimensions and wear limit ⇒ page 1 always replace axle-wise Removing and installing ⇒ page 114 Observe the instructions for changing the pad ⇒ page 111
	Brake carrier with guide bolts and boots must be assembled with sufficient grease on the guide bolt, supplied as a spare part fit a repair set if there is any damage to the protective caps or guide bolts, use the enclosed grease packing to lubricate the guide bolts Note
	When installing make sure that the weight points downwards.
	Assignment ⇒ Electronic Catalogue of Original parts
18 - E	Brake carrier with guide bolts and boots
	must be assembled with sufficient grease on the guide bolt, supplied as a spare part fit a repair set if there is any damage to the protective caps or guide bolts, use the enclosed grease packing to lubricate the guide bolts Assignment Electronic Catalogue of Original Parts
	Pad retaining plate
 	always replace when changing the brake pads
20 - E	Brake caliper
	do not unscrew the brake hose when replacing the brake pad Removing and installing page 117 repairing page 159 with respect to the correctness of information in this document. Copyright by SKODA AUTO A. S. One must first adjust the hand-brake cable after undertaking repair or replacement work Setting the hand-brake page 132
	Observe the instructions for changing the pad <u>⇒ page 111</u>

- 21 Hose clamp
- 22 Brake line, 14 Nm
- 23 Hand-brake cable
 - ☐ Setting the hand-brake ⇒ page 132
- 24 Self-locking screw, 35 Nm
 - replace after each removal
- 25 Spring strap clamp
 - $oldsymbol{\square}$ only fitted on certain versions
- 26 Brake hose

2.3 Removing and installing brake pads CII 41

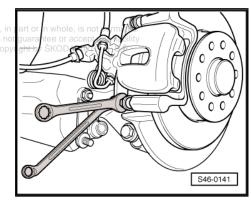
Special tools and workshop equipment required

♦ Resetting tool - T10165-

Removing:

When removing mark the brake pads you intend to keep using. Fit in same position when installing, or braking will be uneven!

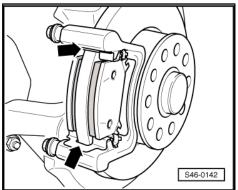
- Remove wheels.
- Unscrew the fixing screws of the brake carrier while counterholding the guide bolts: cted by copyright. Copying for private or commercial purpor
- Remove the brake caliper and e.g. secure with wire in such a way that the weight of the brake caliper does not burden or damage the brake hose.



Remove the brake pads and pad retaining plates -arrows-.

Installing:

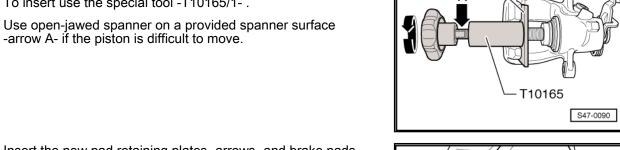
Drain the brake fluid from the brake fluid reservoir using a ventilation bottle before resetting the piston. Otherwise, particularly if reservoir has been topped up, fluid will overflow and cause damage.



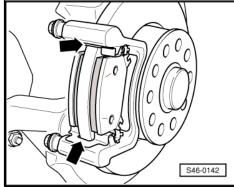
T10165/1

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- Screw in the piston by turning the knurled wheel clockwise on the resetting tool - T10165-, during this procedure do not damage the protective cap.
- To insert use the special tool -T10165/1-.
- -arrow A- if the piston is difficult to move.



Insert the new pad retaining plates -arrows- and brake pads in the brake carrier.

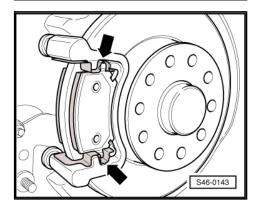


- Make sure that the brake pads are located in the pad retaining
- Secure the brake caliper using new self-locking screws.
- There are four self-locking screws in the repair set, which must be fitted.
- Attach the wheels.



Note

- Observe the instructions for changing the pad ⇒ page 111
- After each brake pad replacement, forcefully apply the brake pedal repeatedly to ensure the brake pads go into their normal operating position.
- Check brake fluid level after changing brake pads.



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Specified torques:

Brake calliper to brake carrier ◆ Use new self-locking screws!	35 Nm
Wheel bolts	120 Nm



2.4 Removing and installing brake caliper CII 41

Special tools and workshop equipment required

◆ Brake pedal load e.g. -V.A.G 1869/2-

Removing:

This procedure applies only to exchanging or the following repair work on the brake caliper.

- Remove wheels.
- Detach the hand brake cable from the lever on the brake caliper.
- If necessary, remove spring clip and pull hand brake cable out of the brake caliper holder.
- Attach the bleeder hose of the bleeding bottle onto the vent valve of the brake caliper and open bleeder valve.
- Position brake pedal load , e.g. -V.A.G 1869/2- .
- Close the vent valve and remove the bleeding bottle.
- Unscrew the brake line.
- Unscrew both fixing screws from the brake caliper while counterholding the guide bolt.
- Remove brake caliper from brake carrier

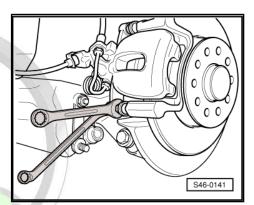
Installing:

- · The piston is pushed back.
- The brake pads are fitted in the retaining springs on the brake caliper.
- Secure the brake caliper to the brake carrier using new selflocking screws.
- Screw the brake line onto the brake caliper.
- Bleed brake system ⇒ page 168.
- Install the hand brake cable and attach with spring clips to the support.
- Adjust handbrake ⇒ page 132.
- Attach the wheels.
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Note

- ♦ Observe the instructions for changing the pad <u>⇒ page 111</u>
- Firmly depress brake pedal several times with vehicle stationary so that the brake pads are properly seated in their normal operating position.
- ♦ Check brake fluid level.





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Specified torques:

Brake calliper to brake carrier ◆ Use new self-locking screws!	35 Nm
Brake line to brake calliper	12 Nm
Wheel bolts	120 Nm





2.5 Repairing rear brake CI 38 (vehicles with front-wheel drive)



Note

- ♦ Brake inspection <u>⇒ page 8</u>.
- ♦ After replacing the brake pads, depress brake pedal firmly several times when the vehicle is stationary to ensure the brake pads are properly seated in their normal operating position.
- ♦ Use the brake filling and bleeding device , e.g. -VAS 5234- , to drain the brake fluid from the brake fluid reservoir.
- Use brake pedal loader, e.g. -V.A.G 1869/2- before removing a brake caliper or separating a brake hose from the brake caliper

1 - ABS wheel speed sensor

- clean the inner surface of the hole before inserting the sensor and brush over with a hot bolt paste -G 052 112 A3-.
- 2 Screw, 8 Nm
- 3 Screw, 90 Nm + 90°
 - replace after each removal
- 4 Wheel bearing housing
- 5 Protection plate
- 6 Screw, 12 Nm
- 7 Wheel hub with wheel bearing
- 8 Screw, 180 Nm + 180°
 - replace after each removal
- 9 Dust cap

10 - Brake disc

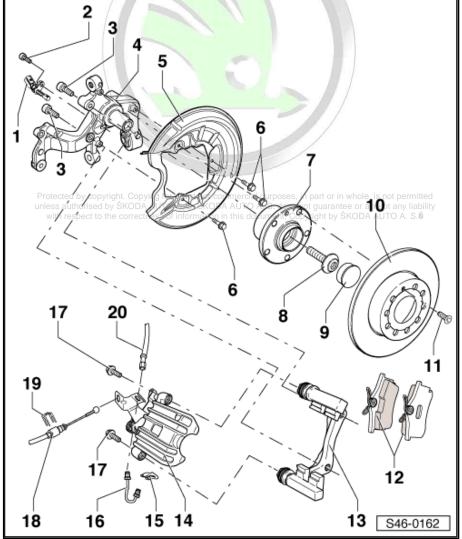
- Assignment, dimensions and wear limit
 ⇒ page 1
- if worn replace axlewise
- unscrew the brake caliper before removing
- 11 Screw, 4 Nm

12 - Brake pads

- Assignment, dimensions and wear limit ⇒ page 1
- □ always replace axle-wise
- □ Removing and installing ⇒ page 120
- Observe the instructions for changing the pad ⇒ page 111

13 - Brake carrier with guide bolts and boots

- unust be assembled with sufficient grease on the guide bolt, supplied as a spare part
- fit a repair set if there is any damage to the protective caps or guide bolts, use the enclosed grease packing to lubricate the guide bolts





Octavia II 2004 ➤ , Octavia II 2010 ➤ Brake systems - Edition 11.2017

14 - Brake caliper

- do not unscrew the brake hose when replacing the brake pad
- □ Removing and installing ⇒ page 123
- □ repairing ⇒ page 159
- One must first adjust the hand-brake cable after undertaking repair or replacement work
- ☐ Setting the hand-brake ⇒ page 132
- Observe the instructions for changing the pad ⇒ page 111

15 - Hose clamp

- 16 Brake line, 14 Nm
- 17 Self-locking screw, 35 Nm
 - □ replace after each removal

18 - Hand-brake cable

☐ Setting the hand-brake ⇒ page 132

19 - Spring strap clamp

- only fitted on certain versions
- 20 Brake hose

2.6 Removing and installing brake pads CI

Special tools and workshop equipment required

♦ Resetting tool - T10165-

Removing:

When removing mark the brake pads you intend to keep using. Fit in same position when installing, or braking will be uneven!

- Remove wheels.
- Unscrew the fixing screws of the brake caliper while counterholding the guide bolts.
- Remove the brake caliper and e.g. secure with wire in such a way that the weight of the brake caliper does not burden or damage the brake hose.
- Take out the brake pads.
- Clean the brake caliper, in particular the adhesive surface for the brake pad must be free from glue residues and grease.

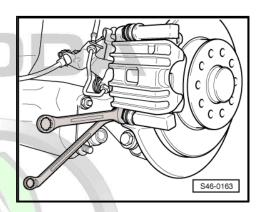


Note

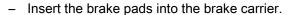
Only use alcohol to clean the brake caliper housing.

Installing:

Drain the brake fluid from the brake fluid reservoir using a ventilation bottle before resetting the piston. Otherwise, particularly if reservoir has been topped up, fluid will overflow and cause damage.



- Screw in the piston by turning the knurled wheel clockwise on the resetting tool - T10165-, during this procedure do not damage the protective cap.
- To insert use the special tool -T10165/1- .
- Use open-jawed spanner on a provided spanner surface -arrow A- if the piston is difficult to move.
- Remove the protective foils from the supporting plates of the new brake pad.



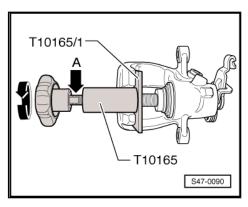
When installing the brake caliper make sure that the brake pads does not stick to the brake caliper before reaching its correct installed position.

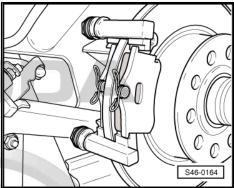
- Secure the brake caliper using new self-locking screws.
- There are four self-locking screws in the repair set, which must be fitted.
- Attach the wheels.



Note

- ♦ Observe the instructions for changing the pad <u>⇒ page 111</u>
- ♦ Firmly depress brake pedal several times with vehicle stationary so that the brake pads are properly seated in their normal operating position.
- ♦ Check brake fluid level.







Octavia II 2004 ➤ , Octavia II 2010 ➤ Brake systems - Edition 11.2017

Specified torques:

Brake calliper to brake carrier ◆ Use new self-locking screws!	ŽI/ODA	35 Nm
Wheel bolts		120 Nm



2.7 Removing and installing brake caliper CI 38

Special tools and workshop equipment required

- ♦ Brake pedal load e.g. -V.A.G 1869/2-
- ♦ Bleeding bottle (commercially available)

Removing:

This procedure applies only to exchanging or the following repair work on the brake caliper.

- Remove wheels.
- Detach the hand brake cable from the lever on the brake caliper.
- If necessary, remove spring clip and pull hand brake cable out of the brake line holder.
- Attach the bleeder hose of the bleeding bottle onto the vent valve of the brake caliper and then open then bleeder valve.
- Position brake pedal load , e.g. -V.A.G 1869/2- .
- Close the vent valve and remove the bleeding bottle.
- Unscrew the brake line.
- Unscrew both fixing screws from the brake caliper while counterholding the guide bolt.
- Pull off brake caliper from brake carrier.

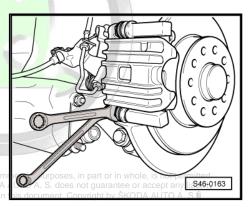
Installing:

- · The piston is pushed back.
- The brake pads are fitted on the brake carrier.
- Secure the brake caliper to the brake carrier using new selflocking screws.
- Screw the brake line onto the brake calipered by SKODA AUTO A. S. SKOD
- Bleed brake system ⇒ page 168.
- Install the hand brake cable and if necessary attach with spring clips to the support.
- Adjust handbrake ⇒ page 132.
- Attach the wheels.

[i]

Note

- ♦ Observe the instructions for changing the pad ⇒ page 111
- ♦ Firmly depress brake pedal several times with vehicle stationary so that the brake pads are properly seated in their normal operating position.
- ♦ Check brake fluid level.





Octavia II 2004 ➤ , Octavia II 2010 ➤ Brake systems - Edition 11.2017

Specified torques:

Brake calliper to brake carrier ◆ Use new self-locking screws!	35 Nm
Brake line to brake calliper	12 Nm
Wheel bolts	120 Nm

SKODA



2.8 Repairing rear brake Bosch BIRIII (vehicles with front and four-wheel drive)



Note

- ♦ Brake inspection <u>⇒ page 8</u>.
- ♦ After replacing the brake pads, depress brake pedal firmly several times when the vehicle is stationary to ensure the brake pads are properly seated in their normal operating position.
- ♦ Use the brake filling and bleeding device , e.g. -VAS 5234- , to drain the brake fluid from the brake fluid reservoir.
- ◆ The brake pedal load, e.g. -V.A.G 1869/2-, must be inserted before removing a brake caliper or separating a brake hose from the brake caliper.

1 - Screw, 70 Nm + 90°

replace after each removal

2 - ABS speed sensor (vehicles with four-wheel drive)

- clean the inner surface of the hole before inserting the sensor and brush over with a hot bolt paste -G 052 112 A3-.
- 3 Screw, 8 Nm
- 4 ABS speed sensor (vehicles with front-wheel drive)

5 - Wheel-bearing housing (vehicles with front-wheel drive)

- Assignment ⇒ Electronic Catalogue of Original parts
- 6 Wheel hub with wheel bearing (vehicles with front-wheel drive)
 - ☐ Assignment ⇒ Electronic Catalogue of Original parts

7 - Tighten screw 180 Nm + 180° (vehicles with front-wheel drive)

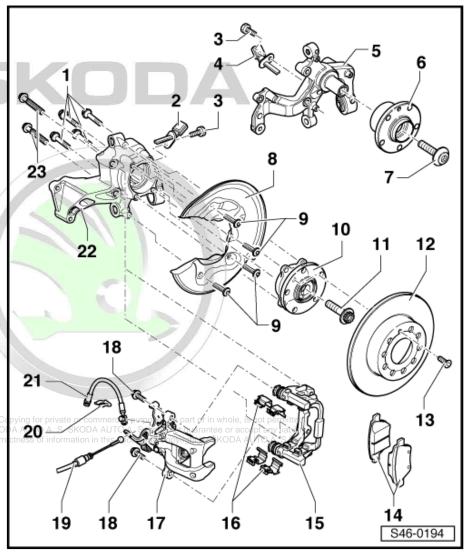
- replace after each removal
- □ removing and installing
 ⇒ chassis, axles, steering; Rep. gr. 42

8 - Protection plate

- ☐ for vehicles with front-wheel drive, 3 holes
- ☐ for vehicles with four-wheel drive, 4 holes
- □ Assignment ⇒ Electronic Catalogue of Original parts

9 - Screw, 12 Nm

- ☐ for vehicles with front-wheel drive, 3 screws
- ☐ for vehicles with four-wheel drive, 4 screws
- □ Assignment ⇒ Electronic Catalogue of Original parts



Octavia II 2004 ➤ , Octavia II 2010 ➤ Brake systems - Edition 11.2017

	Wheel hub with wheel bearing (vehicles with four-wheel drive) Assignment ⇒ Electronic Catalogue of Original parts
11 - 1	Fighten screw 70 Nm + 90° (vehicles with four-wheel drive)
	replace after each removal
	removing and installing ⇒ chassis, axles, steering; Rep. gr. 42
12 - E	Brake disc
	Assignment, dimensions and wear limit <u>⇒ page 1</u>
	if worn replace axle-wise
	unscrew the brake caliper before removing
	Assignment ⇒ Electronic Catalogue of Original Parts
13 - 8	Screw, 4 Nm
	Brake pads
	Assignment, dimensions and wear limit <u>⇒ page 1</u>
	always replace axle-wise
	Removing and installing ⇒ page 126 Observe the instructions for changing the page 111
	Observe the instructions for changing the pad <u>⇒ page 111</u>
15 - 6	Brake carrier with guide bolts and boots must be assembled with sufficient grease on the guide bolt, supplied as a spare part
	fit a repair set if there is any damage to the protective caps or guide bolts, use the enclosed grease
_	packing to lubricate the guide bolts
	Assignment ⇒ Electronic Catalogue of Original Parts
16 - F	Pad retaining plate
	always replace when changing the brake pads
17 - E	Brake caliper
	Observe the instructions for changing the pad <u>⇒ page 111</u>
	do not unscrew the brake hose when replacing the brake pad
	Removing and installing <u>⇒ page 130</u>
	repairing <u>⇒ page 163</u> One must first adjust the hand-brake cable after undertaking repair or replacement work
	Setting the hand-brake \Rightarrow page 132
	Self-locking screw, 35: None correctness of information in this document. Copyright by ŠKODA AUTO A. S. ® Self-locking screw, 35: None correctness of information in this document. Copyright by ŠKODA AUTO A. S.®
	replace after each removal
	Hand-brake cable
	Setting the hand-brake ⇒ page 132
	Retaining clip for brake line
	Brake hose with banjo union and hollow screw, 35 Nm
	•
_	Wheel-bearing housing (vehicles with four-wheel drive)
ີ U	Assignment ⇒ Electronic Catalogue of Original parts
	Screw, 90 Nm + 90° replace after each removal
J	Topiado anoi dadi Tomovai

2.9 Removing and installing brake pads Bosch BIRIII

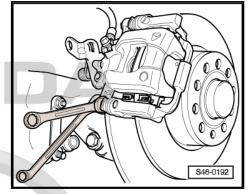
Special tools and workshop equipment required

♦ Resetting tool - T10165-

Removing:

When removing mark the brake pads you intend to keep using. Fit in same position when installing, or braking will be uneven!

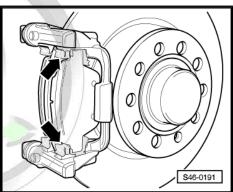
- Remove wheels
- Unscrew the fixing screws of the brake carrier while counterholding the guide bolts.
- Remove the brake caliper and e.g. secure with wire in such a
 way that the weight of the brake caliper does not burden or
 damage the brake hose.



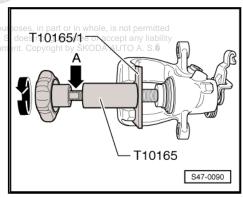
Remove the brake pads and pad retaining plates -arrows-.

Installing:

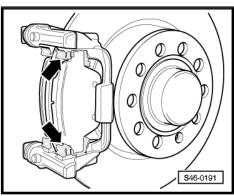
Drain the brake fluid from the brake fluid reservoir using a ventilation bottle before resetting the piston. Otherwise, particularly if reservoir has been topped up, fluid will overflow and cause damage.



- Screw in the piston by turning the knurled wheel clockwise on the resetting tool - T10165-7 during this procedure do not damage the protective cap. with respect to the correctness of information in this
- To insert use the special tool -T10165/1- .
- Use open-jawed spanner on a provided spanner surface -arrow A- if the piston is difficult to move.



 Insert the new pad retaining plates -arrows- and brake pads in the brake carrier.





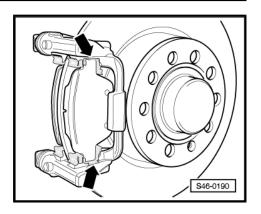
Octavia II 2004 ➤ , Octavia II 2010 ➤ Brake systems - Edition 11.2017

- Make sure that the brake pads are located in the pad retaining plates -arrows-.
- Secure the brake caliper using new self-locking screws.
- There are four self-locking screws in the repair set, which must be fitted.
- Attach the wheels.



Note

- ♦ Observe the instructions for changing the pad ⇒ page 111
- After each brake pad replacement, forcefully apply the brake pedal repeatedly to ensure the brake pads go into their normal operating position.
- Check brake fluid level after changing brake pads.







Specified torques:

Brake calliper to brake carrier ◆ Use new self-locking screws!	35 Nm
Wheel bolts	120 Nm



2.10 Removing and installing brake caliper Bosch BIRIII

Special tools and workshop equipment required

♦ Brake pedal load , e.g. -V.A.G 1869/2-

Removing:

This procedure applies only to exchanging or the following repair work on the brake caliper.

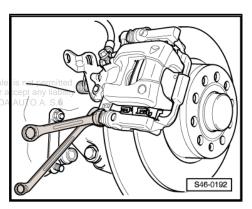
- Remove wheels.
- Detach the hand brake cable from the lever on the brake caliper.
- Remove spring clip and pull hand brake cable out of the brake caliper holder.
- Attach the bleeder hose of the bleeding bottle onto the vent valve of the brake caliper and open bleeder valve.
- Brake pedal load e.g. -V.A.G 1869/2-
- Close the vent valve and remove the bleeding bottle.
- Unscrew brake hose.
- Unscrew the fixing screws of the brake carrier while counterholding the guide bolts.
- Remove brake caliper from brake carrier

Installing:

- The piston is pushed backet
- The brake pads are fitted in the retaining springs on the brake caliper.
- Secure the brake caliper to the brake carrier using new selflocking screws.
- Bolt brake hose to brake caliper.
- Bleed brake system ⇒ page 168.
- Install the hand brake cable and attach with spring clips to the support.
- Adjust handbrake ⇒ page 132.
- Attach the wheels.



- ♦ Observe the instructions for changing the pad <u>⇒ page 111</u>
- ♦ Firmly depress brake pedal several times with vehicle stationary so that the brake pads are properly seated in their normal operating position.
- ♦ Check brake fluid level.



Specified torques:

Brake calliper to brake carrier ◆ Use new self-locking screws!	35 Nm
Hollow screw for brake line to brake caliper	35 Nm
Wheel bolts	120 Nm





3 Handbrake

Handbrake lever - Summary of components ⇒ page 132

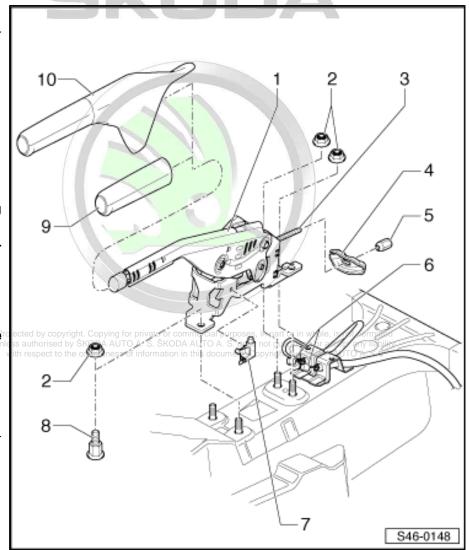
Setting the hand-brake ⇒ page 132

Removing and installing the hand-brake cable <u>⇒ page 133</u>

3.1 Handbrake lever - Summary of components

1 - Handbrake lever

- □ Remove the centre console before removal
- 2 Nut, 15 Nm
- 3 Control cable
- 4 Compensating clamp
- 5 Adjusting nut
 - ☐ Setting the hand-brake ⇒ page 132
- 6 Hand-brake cable
 - □ Removing and installing⇒ page 133
- 7 Switch for hand-brake control
- 8 Adapter, 15 Nm
 - ☐ for vehicles with high centre console
- 9 Covering for the hand brake lever
 - for vehicles with high centre console
- 10 Covering for the hand brake lever
 - for vehicles with flat centre console

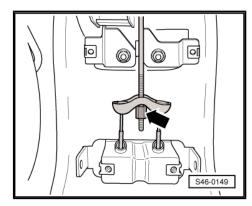


3.2 Setting the hand-brake

Resetting is only required after replacing the hand-brake cable, the brake carrier or after replacing the brake discs.

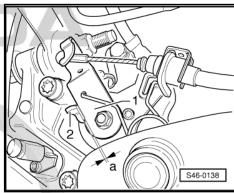
- Depending on the equipment fitted, remove the storage compartment at the rear, the ashtray or the centre console ⇒ Bodywork assembly work; Rep. gr. 68 .
- Forcefully apply the brake pedal (at least 3 times).
- Pull the handbrake on and release it three times.
- Put the hand brake lever in its rest position.

- Tighten adjusting nut -arrow-, ...



- ... So that the levers -1- rise from the stop -2- on the brake calipers.
- The distance -a- to the stop -2- on the left and right brake caliper must together not exceed 1.5 mm.
- Check whether both wheels rotate freely.

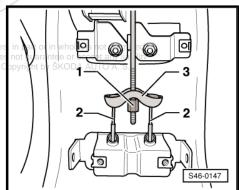
Once reset, no resetting of the hand brake is necessary due to automaticy adjustment of the brakes on the rear wheels.



3.3 Removing and installing the hand-brake cable

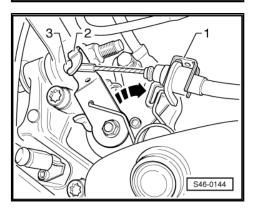
Removing:

- Put hand-brake back.
- Remove the centre console ⇒ Body Work; Rep. gr. 68.
- Release the adjusting nut -1- so far until the respective handbrake cable -2- can be unhooked from the compensating clamp -3-.



For the version with the spring clip

- Lever off spring clip -1-.



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For the version with the spring bushing

 Slacken the spring bushing -1- for the hand-brake cable from the bracket on the brake caliper.

Continued for all versions

- Press the lever at brake caliper -2- in the -direction of the arrow- and unhook the hand-brake cable -3-.
- Unscrew screw for hand brake cable from trailing arm.
- Unhook hand-brake cable from the bracket and pull out of the guide tube.

Installing:

- Push the hand-brake cable into the guide tube and attach it to the bracket.
- Press the lever at brake caliper -2- in the direction of the arrow and hook on the hand-brake cable -3-.

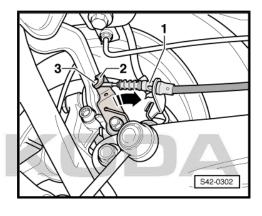
For the version with the spring clip

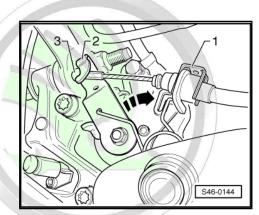
- Press the spring clip -1- onto the hand-brake cable.

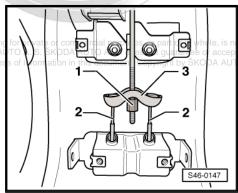
Continued for all versions

The hand-brake cable must be fitted free of stress between the brake caliper support and the retaining clip.

- Screw the retaining clip to the trailing arm.
- Hook the hand-brake cable -2- into the compensating clamp -3-.
- Tension the hand-brake cable with the adjusting nutral sed by copyright. Copy
- Adjust handbrake ⇒ page 132 .







Brake pedal - left-hand drive 4

Summary of components of brake pedal ⇒ page 135

Separating the brake pedal from the brake servo unit and clipping onto the brake servo unit ⇒ page 137

Removing and installing brake pedal ⇒ page 137

Removing and installing bracket ⇒ page 138

Setting, removing and installing the brake light switch - F- and brake pedal switch - F47- to 10/05 ⇒ page 138

Removing and installing brake light switch -F- and brake pedal switch -F47- as of 11.05 <u>⇒ page 139</u>

4.1 Summary of components of brake pedal



WARNING

The brake pedal travel must not be restricted by additional floor coverings.

Grease all bearing surfaces with polycarbamide grease - G 052 142 A2- before assembly.



Octavia II 2004 ➤ , Octavia II 2010 ➤ Brake systems - Edition 11.2017

1 - Bearing bracket

- □ Removing and installing⇒ page 138
- □ up to 05/2007
- Assignment ⇒ Electronic Catalogue of Original parts

2 - Self-locking nut, 25 Nm

3 - The brake light switch - Fand brake pedal switch - F47-



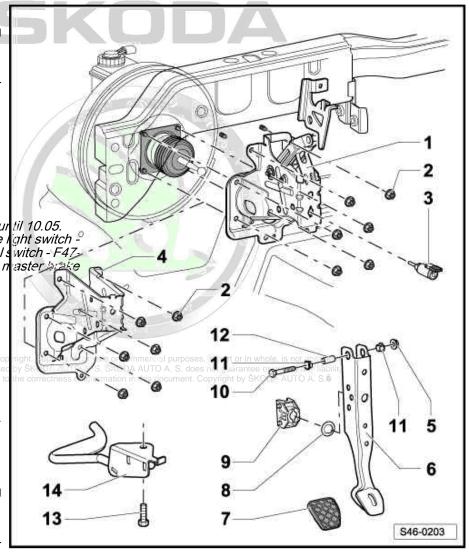
Note

Mounted on vehicles until 10.05. From 11/05, the brake light switch - F- and the brake pedal switch - F47 are mounted onto the naster ⇒ page 139

- □ before assembling the brake light switch, clip the brake pedal to the pressure rod of the brake servo unit tected by ⇒ page 137
- ☐ Grease tappet head with polycarbamide grease G 052 142 A2-.
- Setting the brake light switch ⇒ page 138

4 - Bearing bracket

- Removing and installing⇒ page 138
- □ as of 06/2007
- Assignment ⇒ Electronic Catalogue of Original parts
- 5 Self-locking nut, 25 Nm
- 6 Brake pedal
- 7 Cap
- 8 Bearing shell
- 9 Support
 - for ball head of pressure rod of brake servo unit
- 10 Screw
- 11 Bushing
- 12 Bearing shaft
- 13 Screw, 20 Nm
 - ☐ Assignment ⇒ Electronic Catalogue of Original parts
- 14 Crash bar
 - □ as of 06/2007
 - ☐ Assignment ⇒ Electronic Catalogue of Original parts



4.2 Separating the brake pedal from the brake servo unit and clipping onto brake servo unit

Special tools and workshop equipment required

♦ Release tool - T10159A-

Separate:

- Removing driver side trim panel ⇒ Body Work; Rep. gr. 70.

For vehicles up to 10.2005

- Unplug connector from brake light switch.
- Remove brake light switch by turning 45° to the left.

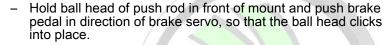
For all vehicles

- Press the brake pedal towards the brake servo unit and hold it in position.
- Insert release tool T10159A- and pull it in the direction of the driver's seat while counterholding the brake pedal (the pedal must not move backwards during this operation). This pushes the retaining lugs -3- of the mount off the ball head of the push rod -2-.

The figure shows the separation of the brake pedal from the brake servo unit with the foot controls removed for clarity.

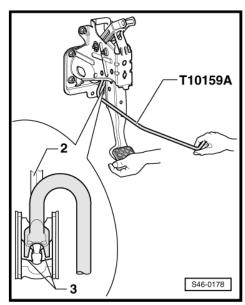
Pull release tool - T10159A- and brake pedal together towards driver seat. (This causes the brake pedal to be drawn off the ball head of the push rod).

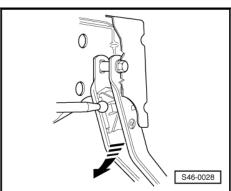
Clipping:



Further installation occurs in reverse order.

Setting the brake light switch ⇒ page 138.





4.3 Removing and installing brake pedal

Removing

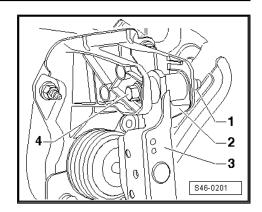
- Separating the brake pedal from the brake servo unit ⇒ page 137
- Slacken the 4 screws from the steering column and with the assistance of a second mechanic push the steering column out of the bearing and hold ⇒ Chassis; Rep. gr. 48.

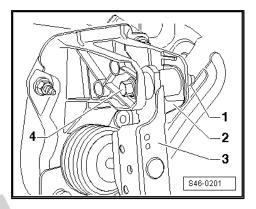
- Unscrew the nut -1-, while doing so counterhold the screw of the brake pedal -4-.
- Remove the screw of the brake pedal -4- towards the left.
- Take the brake pedal -3- out of the bearing bracket -2-.
- Push the steering column back into the bearing and tighten the 4 fixing screws by hand.
- Remove brake pedal.

Installing

- Slacken the 4 screws from the steering column and with the assistance of a second mechanic push the steering column out of the bearing and hold.
- Insert the brake pedal -3- into the bearing bracket -2-.
- Insert the screw of the brake pedal -4- from the left.
- Push the steering column into the bearing and tighten the 4 fixing screws by hand ⇒ Chassis; Rep. gr. 48.
- Screw on the new nut -1- and tighten together with the screw
 -4- ⇒ Item 10 (page 136)
- Clip the brake pedal onto the brake servo ⇒ page 137.

Specified torques:	
Brake pedal to bracket Use new nut!	25 Nm
◆ Use new nut!	





4.4 Removing and installing bearing bracket

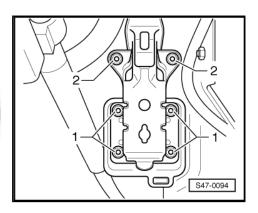
Removing

- Remove brake pedal ⇒ page 137.
- Unscrew nuts -1- from brake servo unit.
- Unscrew the nuts -2- for attaching the bracket to the front wall.
- Remove bracket.

Installing

Installation is carried out in the reverse order.

Specified torques:	
Brake servo unit to bracket/front wall ◆ Use new screws!	25 Nm
Mounting bracket on bulkhead ◆ Use new nut or screw!	25 Nm



4.5 Setting, removing and installing the part or in whole, is not permitted brake light switch - F- and brake pedal by SKODA AUTO A. S. switch - F47- up to MY 10.2005



Note

Switch ⇒ Item 3 (page 136) (left-hand drive) and ⇒ Item 6 (page 144) (right-hand drive) mounted up to 10/2005.

The removal and installation of the brake light switch must only be performed when the tappet is pressed otherwise the locking mechanism of the brake light switch will be damaged.

The brake light switch must be removed for setting.

Removing:

Removing driver side trim panel ⇒ Body Work; Rep. gr. 70.

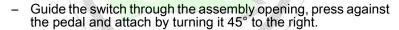


- Remove air guide -3-.
- Unplug connector -1- from the brake light switch.
- Remove brake light switch -2- by turning 45° to the left.

Installing and setting:

The brake light switch may only be installed once to ensure that it has an adequately tight fit.

Pull the tappet out completely before assembly.



- The brake pedal always remains in the off position in this case (do not depress!).
- Insert the plug for the brake light switch.
- Protected Inspecting proper operation of the brake light. Whole, is not permitted

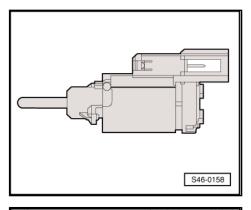
After setting up the brake light switch, check whether brake pedal is in the end position (release position).

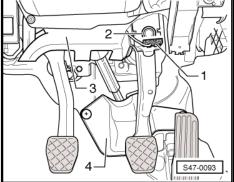
- Install air guide duct.
- Removing driver side trim panel ⇒ Body Work; Rep. gr. 70.

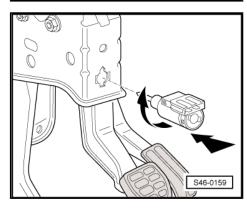
4.6 Removing and installing brake light switch -F- and brake pedal switch -F47as of 11/2005

Removing:

- Remove air filter ⇒ Relevant Engine; Rep. gr. 24 or ⇒ Rep.
- Remove battery and battery tray ⇒ Electrical System; Rep. gr. 27.







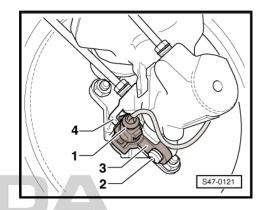


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- Disconnect plug connection -1- from brake pedal switch -F47--3-.
- Unscrew the screw -2- from the master brake cylinder.
- Take switch -3- out of the lock -4-.

Installing:

Installation is carried out in the reverse order.





Tightening torque:

Brake light switch -F- and brake pedal switch -F47- to brake cylinder 5 Nm



Inspection:

⇒ Vehicle diagnostic tester





Brake pedal - right-hand drive 5

Summary of components of brake pedal ⇒ page 143

Separating the brake pedal from the brake servo unit and clipping onto the brake servo unit ⇒ page 145

Removing and installing brake pedal ⇒ page 146

Removing and installing bracket ⇒ page 147

Setting, removing and installing the brake light switch - F- and brake pedal switch - F47- to 10/05 ⇒ page 149

Removing and installing brake light switch -F- and brake pedal switch -F47- as of 11/05 ⇒ page 149

5.1 Summary of components of brake pedal



WARNING

The brake pedal travel must not be restricted by additional floor coverings.

Summary of components of brake pedal up to 01/2007 (with brake light switch - F- and brake pedal switch - F47- at bracket)

Grease all bearing surfaces with polycarbamide grease a G 052 in whole, is not permitted 142 A2- before assembly.

1 - Brake servo

- Assignment ⇒ Electronic Catalogue of Original Parts
- 2 Screw
 - □ up to 01.2007
- 3 Cable support
 - ☐ up to 01.2007
- 4 Nut, 12 Nm
 - □ up to 01.2007
- 5 Screw, 25 Nm
- 6 The brake light switch Fand brake pedal switch - F47-



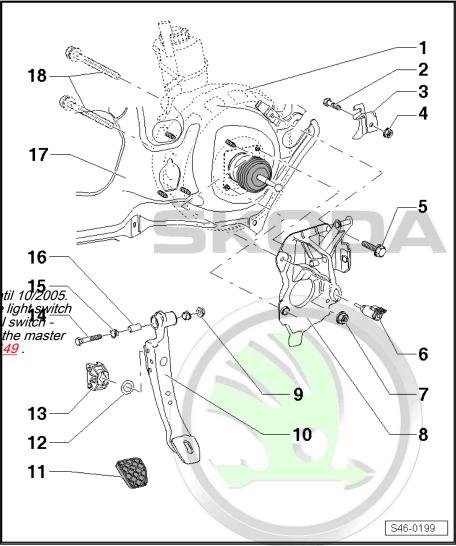
Note

Mounted on vehicles until 10/2005. From 11/2005 the brake light switch - F- and the brake pedal switch - F47- are mounted onto the master brake cylinder ⇒ page 149.

- □ before assembling the brake light switch, clip the brake pedal to the pressure rod of the brake servo unit
 ⇒ page 145
- ☐ Grease tappet head with polycarbamide grease G 052 142 A2-.
- Setting the brake light switch ⇒ page 138
- 7 Nut, 25 Nm

8 - Bearing bracket

- Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted
- □ To 10/2005, mounted together with brake light switch F- and brake pedal switch F47 not guarantee or accept any liability
- ul>
 further mounted to 01.2007without brake light switch F- and brake pedal switch F47-
- □ Assignment ⇒ Electronic Catalogue of Original parts
- 9 Self-locking nut, 25 Nm
- 10 Brake pedal
- 11 Cap
- 12 Bearing shell
- 13 Support
 - for ball head of pressure rod of brake servo unit
- 14 Screw
- 15 Bushing
- 16 Bearing shaft
- 17 Front wall
- 18 Screw, 25 Nm
 - serves, at the same time, to secure the brake master cylinder and the brake servo unit.

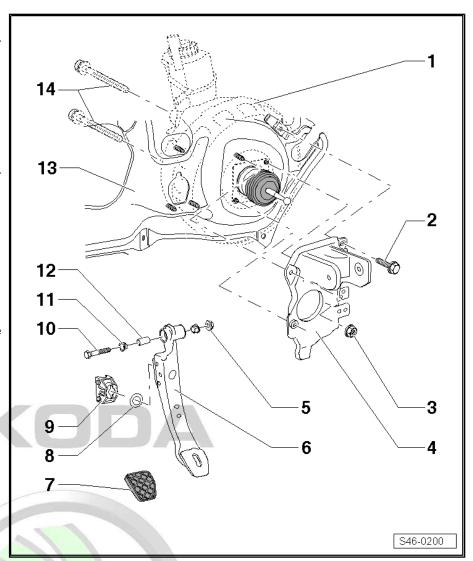


Summary of components of brake pedal as of 02/2007 (with brake light switch - F- and brake pedal switch - F47- at brake cylinder)

Grease all bearing surfaces with polycarbamide grease - G 052 142 A2- before assembly.

1 - Brake servo

- Assignment ⇒ Electronic Catalogue of Original
- 2 Screw, 25 Nm
- 3 Nut, 25 Nm
- 4 Bearing bracket
 - ☐ from 02.2007
 - Assignment ⇒ Electronic Catalogue of Original parts
- 5 Self-locking nut, 25 Nm
- 6 Brake pedal
- 7 Cap
- 8 Bearing shell
- 9 Support
 - for ball head of pressure rod of brake servo unit
- 10 Screw
- 11 Bushing
- 12 Bearing shaft
- 13 Front wall
- 14 Screw, 25 Nm
 - serves, at the same time, to secure the brake master cylinder and the brake servo unit.



5.2 Separating the brake pedal from the brake servo unit and clipping onto brake servo unit

Special tools and workshop equipment required

♦ Release tool - T10159A-

Separate:

- Removing driver side trim panel ⇒ Body Work; Rep. gr. 70 .

For vehicles up to 10.2005

- Unplug connector from brake light switch? A. S. does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by SKODA AUTO A. S. ®
- Remove brake light switch by turning 45° to the left.



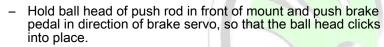
For all vehicles

- Press the brake pedal towards the brake servo unit and hold it in position.
- Insert release tool T10159A- and pull it in the direction of the driver's seat while counterholding the brake pedal (the pedal must not move backwards during this operation). This pushes the retaining lugs -3- of the mount off the ball head of the push rod -2-.

The figure shows the separation of the brake pedal from the brake servo unit with the foot controls removed for clarity.

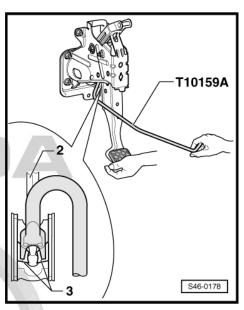
Pull release tool - T10159A- and brake pedal together towards driver seat. (This causes the brake pedal to be drawn off the ball head of the push rod).

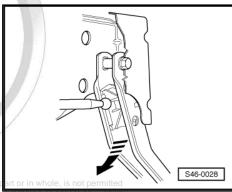
Clipping:



Further installation occurs in reverse order.

Setting the brake light switch ⇒ page 138.





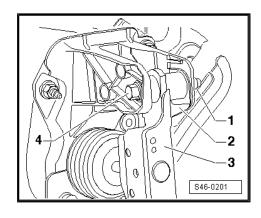
nt. Copyright by ŠKODA AUTO A. S.®

5.3 Removing and installing brake pedal

Removing

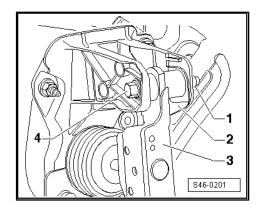
- Separating the brake pedal from the brake servo unit
- Unscrew the nut -1-, while doing so counterhold the screw of the brake pedal -4-.
- Remove the screw of the brake pedal -4- towards the left.
- Take the brake pedal -3- out of the bearing bracket -2-.

Installing



- Insert the brake pedal -3- into the bearing bracket -2-.
- Insert the screw of the brake pedal -4- from the left.
- Screw on the new nut -1- and tighten together with the screw
 -4- ⇒ Item 5 (page 145)
- Clip the brake pedal onto the brake servo ⇒ page 145.

Specified torques:	
Brake pedal to bracket ◆ Use new nut!	25 Nm



5.4 Removing and installing bearing bracket

Removing

- Remove engine cover ⇒ Engine.; Rep. gr. 13

Vehicles with diesel engines TDI PD:

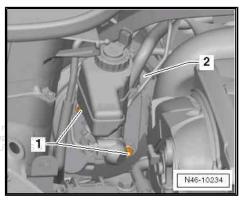
- Remove connecting hose to intake manifold flap ⇒ Engine;
 Rep. gr. 21 .
- Slacken the fuel lines at the engine head ⇒ Relevant engine; Rep. gr. 21.
- Remove top cover for timing chain ⇒ Engine; Rep. gr. 13.

Vehicles with diesel engines TDI CR:

- Remove filler neck for washer-fluid reservoir and lay it to one side.
- Remove the coolant expansion bottle and lay it to one side.
- Slacken the fuel feed and fuel return line from the plastic clip.
- Separate the plug connection from the solenoid valve of the diesel particle filter.
- Unscrew the bracket for the solenoid valve and lay it to one side.

Continued for all vehicles:

- Remove brake pedal ⇒ page 146.
- Unscrew the screws -1- of the brake servo unit -2-.
- Slacken the electrical lines from the pedal housing.

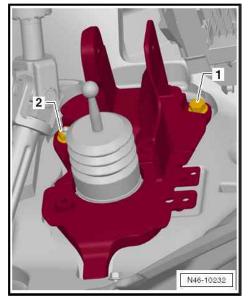


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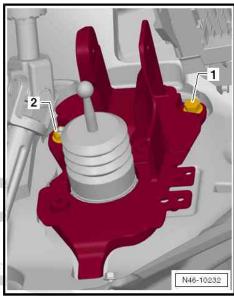
- Unscrew screws -1- from the right bracket.
- Unscrew nut -2- from the left bracket.
- Remove bracket.

Installing

Insert bracket.



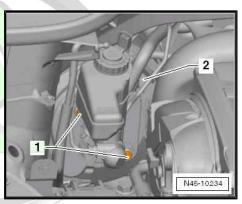
- Screw on nut -2- for the left bracket and tighten to tightening torque.
- Screw in screw -1- for the right bracket and tighten to tightening torque.





- Screw in screws -1- for the brake servo unit -2- and tighten to tightening torque.
- Further installation occurs in reverse order.

Specified torques:	
Brake servo unit to bracket/front wall ◆ Use new screws!	25 Nm
Mounting bracket on bulkhead ◆ Use new nut or screw!	25 Nm



5.5 Setting, removing and installing the brake light switch - F- and brake pedal switch - F47- up to MY 10.2005



Note

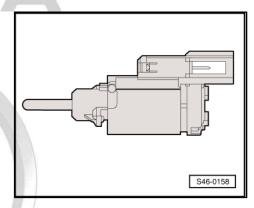
Switch ⇒ Item 6 (page 144) mounted up to 10/2005.

The removal and installation of the brake light switch must only be performed when the tappet is pressed otherwise the locking mechanism of the brake light switch will be damaged.

The brake light switch must be removed for setting.

Removing:

Removing driver side trim panel ⇒ Body Work; Rep. gr. 70.

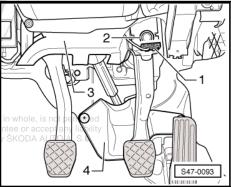


- Remove air guide -3-.
- Unplug connector -1- from the brake light switch.
- Remove brake light switch -2- by turning 45° to the left.

Installing and setting:

The brake light switch may only be installed once to ensure that it has an adequately tight fit.

Pull the tappet out completely before assembly, this document.



- Guide the switch through the assembly opening, press against the pedal and attach by turning it 45° to the right.
- The brake pedal always remains in the off position in this case (do not depress!).
- Insert the plug for the brake light switch.
- Inspecting proper operation of the brake light.

After setting up the brake light switch, check whether brake pedal is in the end position (release position).

- Install air guide duct.
- Installing driver side trim panel ⇒ Body Work; Rep. gr. 70.



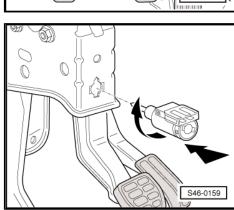
Special tools and workshop equipment required

♦ Brake filling and bleeding device , e.g. -VAS 5234- .

Removing:

For engines TDI PD and TDI CR:

Remove master brake cylinder ⇒ page 189





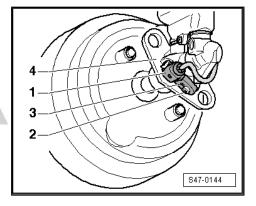
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- Unscrew the screw -2- from the master brake cylinder.
- Take switch -3- out of the lock -4-.

Installing:

Installation is carried out in the reverse order.

 After completing work which involved opening the brake system, bleed brake system with brake filling and bleeding device, e.g. -VAS 5234-





Tightening torque:

Brake light switch -F- and brake pedal switch -F47- to brake cylinder 5 Nm





Inspection:

⇒ Vehicle diagnostic tester





47 – Brakes - hydraulics

1 Repairing front brake caliper

Repairing the brake caliper FS-III ⇒ page 153

Removing and installing the piston of the brake caliper for the FS-III brake ⇒ page 154

Repairing brake caliper FN3 <u>⇒ page 155</u>

Removing and installing piston of brake caliper FN3 ⇒ page 156

1.1 Repairing the brake caliper FS-III

- ◆ Brake inspection ⇒ page 8.
- Install the complete repair set when undertaking repairs.
- ♦ Use only methylated spirits for cleaning the brake.
- ♦ Thinly coat brake cylinder, piston and gasket ring with lithium grease G 052 150 A2- .

1 - Dust cap

place on the vent valve

2 - Vent valve, 10 Nm

thinly coat thread with lithium grease -G 052 150 A2- before screwing in

3 - Bushing

- insert into the brake caliper housing
- 4 Guide bolt, 30 Nm

5 - Cover caps

insert in bushing

6 - Brake caliper

7 - Sealing ring

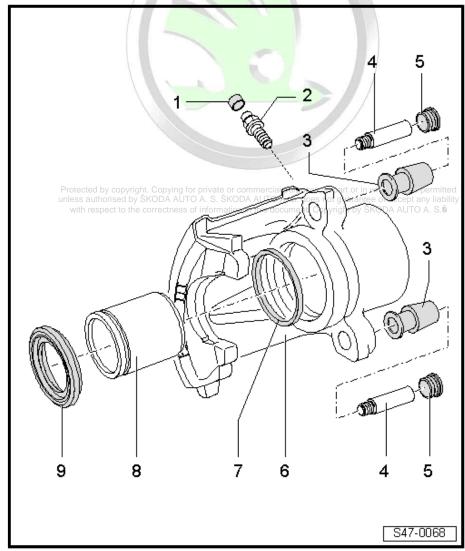
Removing and installing⇒ page 154

8 - Piston

- □ Removing and installing⇒ page 154
- ☐ First thinly coat piston with lithium grease G 052 150 A2-

9 - Boot

- □ Removing and installing⇒ page 154
- do not damage when inserting the piston



1.2 Removing and installing the piston of the brake caliper of the FS-III brake

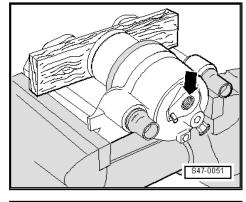
Special tools and workshop equipment required

- ♦ Disassembly wedge 3409-
- ♦ Piston jig T10145-

Removing:

- Press the piston out of the brake caliper using compressed air.

Insert wooden plate so that the piston is not damaged.



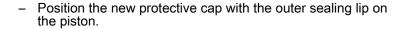
Remove gasket ring with disassembly wedge - 3409- .

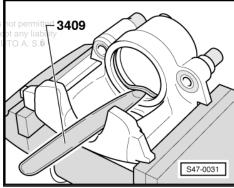
When removing, make sure that the cylinder surface is not damaged.

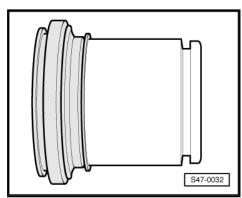
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Installing:

- Clean piston and gasket ring with white spirits and dry off.
- Before inserting the piston and gasket ring, thinly coat with lithium grease - G 052 150 A2- .
- Insert sealing ring into the brake caliper.

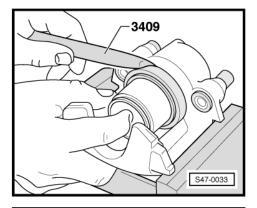






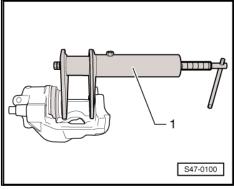
 Insert inner sealing lip of the protective cap with disassembly wedge - 3409- in the groove of the cylinder.

To do so hold the piston in front of the brake caliper.



 Press the piston with the piston jig - T 10145- -1- into the brake caliper.

The outer sealing lip of the protective cap will clip into the piston groove.



1.3 Repairing brake caliper FN3

- ♦ Brake inspection ⇒ page 8.
- Install the complete repair set when undertaking repairs.
- Use only methylated spirits for cleaning the brake.
- ♦ Thinly coat brake cylinder, piston and gasket ring with lithium grease G 052 150 A2- .





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1 - Cover caps

- insert in bushing
- 2 Guide bolt, 30 Nm

3 - Bushing

☐ insert into the brake caliper housing

4 - Dust cap

place on the vent valve

5 - Vent valve, 10 Nm

thinly coat thread with lithium grease -G 052 150 A2- before screwing in

6 - Brake caliper

7 - Brake carrier

crewed to the brake caliper

8 - Spring

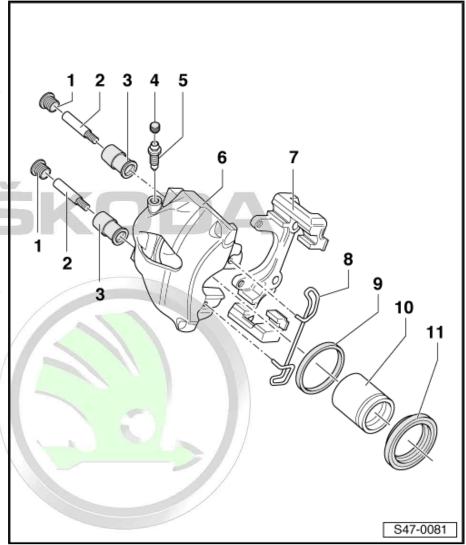
☐ insert with both ends into the bores in the brake caliper

9 - Sealing ring

□ Removing and installing ⇒ page 156

10 - Piston

- Removing and installing ⇒ page 156
- ☐ First thinly coat piston with lithium grease -G 052 150 A2-



11 - Boot

- □ Removing and installing ⇒ page 156 formation in this document. Copyright by ŠKODA AUTO A. S.®
- do not damage when inserting the piston

1.4 Removing and installing piston of brake caliper FN3

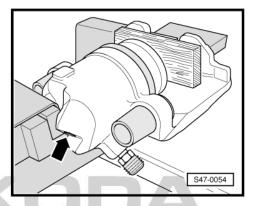
Special tools and workshop equipment required

- Disassembly wedge 3409-
- Piston jig T10145-
- ♦ Assembly tool T10146/6-

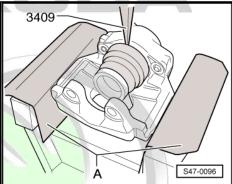
Removing:

Press the piston out of the brake caliper using compressed air.

- Insert wooden plate so that the piston is not damaged.



 Lever off protective cap with disassembly wedge - 3409- from the brake caliper.



Remove gasket ring with disassembly wedge - 3409.

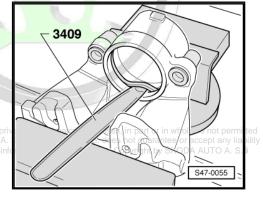


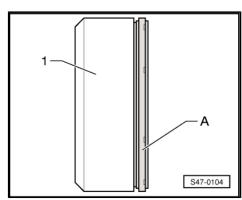
Note

When removing, make sure that the cylinder surface is not damaged.

Installing:

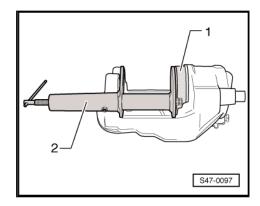
- Clean piston and gasket ring with white spirits and dry offectnes
- Before inserting the piston and gasket ring, thinly coat with lithium grease - G 052 150 A2- .
- Insert sealing ring into the brake caliper.
- Position the protective cap -A- on the assembly tool -T10146/6- -1-.





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Press the protective cap with the assembly tool -1- and the piston jig -2- onto the brake caliper in such a way that it is resting all around the brake caliper.

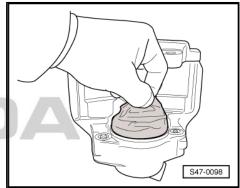


Check fitting of the protective cap.



Note

The protective cap should no longer be removable by hand from the brake caliper.



Lightly press the piston onto the protective cap and interlock in this position, e.g. with the disassembly wedge -2-.

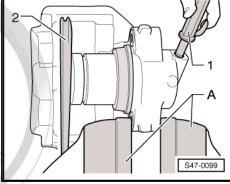


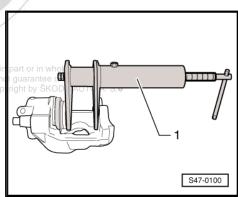
Note

Do not tilt the piston, in order to avoid damage to the protective

- Blow up the protective cap with compressed air (max. 0.3 MPa) -1-. At the same time the protective cap jumps onto the piston.
- Press the piston with the piston jig -1- into the brake caliper.

The outer sealing lip of the protective cap will clip into the piston groove.





2 Repairing rear brake caliper

Repairing brake caliper CII 41 ⇒ page 159

Repairing brake caliper CI 38 ⇒ page 161

Removing and installing the brake caliper piston CII 41 or CI 38 ⇒ page 162

Repairing the brake caliper Bosch BIRIII ⇒ page 163

Removing and installing the brake caliper piston Bosch BIRIII ⇒ page 164

Pre-bleeding the brake caliper <u>⇒ page 166</u>

2.1 Repairing brake caliper CII 41



Note

- ♦ Brake inspection <u>⇒ page 8</u>.
- ♦ Install the complete repair set when undertaking repairs.
- ♦ Use only methylated spirits for cleaning the brake.
- ♦ Thinly coat brake cylinder, piston and gasket ring with lithium grease G 052 150 A2-.
- ♦ The brake calipers must absolutely be pre-bled before installing them in the vehicle (without brake pads) in case of a repair or when replacing them with new brake calipers <u>⇒ page 166</u>.







Octavia II 2004 ➤ , Octavia II 2010 ➤ Brake systems - Edition 11.2017

1 - Brake caliper with lever for the handbrake cable

- replace brake caliper if the lever for the handbrake cable is not sealed
- pre-bleed brake caliper after undertaking replacement <u>⇒ page 166</u>

2 - Dust cap

3 - Vent valve, 10 Nm

thinly coat thread with lithium grease G 052 150 A2- before screwing in

4 - Self-locking screw, 35 Nm

- Replacing
- counterhold on the guide bolt when releasing and tightening

5 - Guide bolt

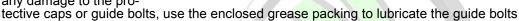
grease before fitting protective cap

6 - Boot

pull onto brake carrier and guide bolt

7 - Brake carrier with guide bolts and boots

- must be assembled with sufficient grease on the guide bolt, supplied as a spare part
- fit a repair set if there is any damage to the pro-



☐ Assignment ⇒ Electronic Catalogue of Original Parts

8 - Brake carrier with guide bolts and boots

- must be assembled with sufficient grease on the guide bolt, supplied as a spare part
- if it a repair set if there is any damage to the protective caps or guide bolts, use the enclosed grease packing to lubricate the guide bolts



Note

When installing make sure that the weight points downwards.

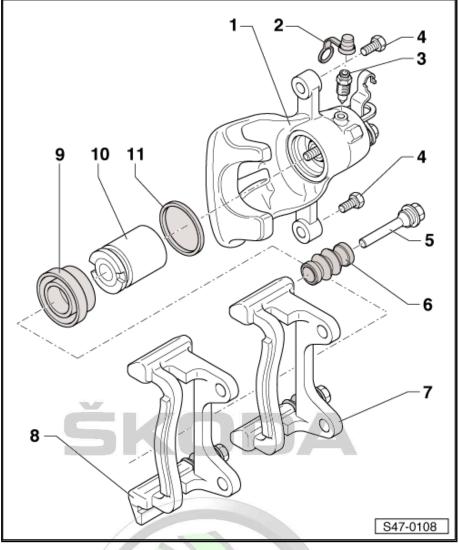
□ Assignment ⇒ Electronic Catalogue of Original parts

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- pull with outer sealing lip onto the piston
- □ Removing and installing ⇒ page 162

10 - Piston with automatic adjusting device

- □ Removing and installing ⇒ page 162
- ☐ thinly coat piston with assembly paste G 052 150 A2- before fitting



11 - Sealing ring

□ Removing and installing ⇒ page 162

2.2 Repairing brake caliper CI 38



Note

- ♦ Brake inspection ⇒ page 8.
- ♦ Install the complete repair set when undertaking repairs.
- ♦ Use only methylated spirits for cleaning the brake.
- ♦ Thinly coat brake cylinder, piston and gasket ring with lithium grease G 052 150 A2-.
- ◆ The brake calipers must absolutely be pre-bled before installing them in the vehicle (without brake pads) in case of a repair or when replacing them with new brake calipers ⇒ page 166.

1 - Brake caliper with lever for the handbrake cable

- replace brake caliper if the lever for the handbrake cable is not sealed
- □ pre-bleed brake caliper after undertaking replacement ⇒ page 166

2 - Dust cap

3 - Vent valve, 10 Nm

 thinly coat thread with lithium grease G 052 150 A2- before screwing in

4 - Self-locking screw, 35 Nm

- replace after each removal
- counterhold on the guide bolt when releasing and tightening

5 - Guide bolt

grease before fitting protective cap

6 - Boot

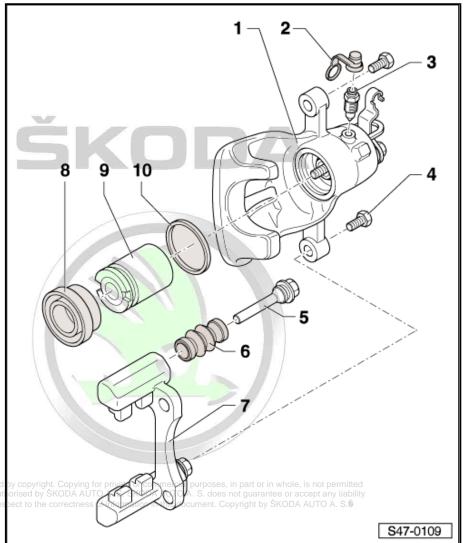
 pull onto brake carrier and guide bolt

7 - Brake carrier with guide bolts and boots

- must be assembled with sufficient grease on the guide bolt, supplied as a spare part
- ☐ fit a repair set if there is any damage to the protective caps or guide bolts, use the enclosed grease packing to lubricate the guide bolts

8 - Boot

pull with outer sealing lip onto the piston





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□ Removing and installing ⇒ page 162

9 - Piston with automatic adjusting device

- □ Removing and installing ⇒ page 162
- ☐ thinly coat piston with assembly paste G 052 150 A2- before fitting

10 - Sealing ring

□ Removing and installing ⇒ page 162

2.3 Removing and installing the brake caliper piston CII 41 or CI 38

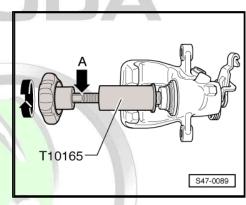
Special tools and workshop equipment required

- ♦ Resetting tool T10165-
- Disassembly wedge 3409-

Removing:

Insert the resetting tool - T10165- in such a way that the collar is resting on the piston.

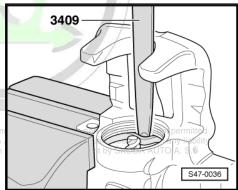
- Release the piston by turning the knurled wheel of the resetting tool - T10165- to the left.
- Use open-jawed spanner on a provided spanner surface -arrow A- if the piston is difficult to move.



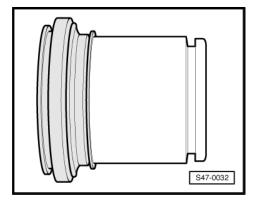
Remove gasket ring with disassembly wedge - 3409-.

Installing:

- Clean piston and gasket ring with white spirits and dry off.
- Before installing the piston and gasket ring thinly coat with lithium grease - G 052 150 A2- .



- Position the protective cap with the outer sealing lip on the piston.
- Insert inner sealing lip of the protective cap with disassembly wedge - 3409- in the groove of the cylinder.



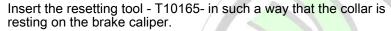
To do so hold the piston in front of the brake caliper.



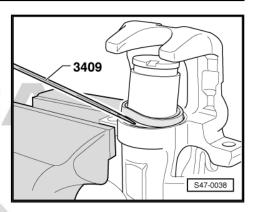
Caution

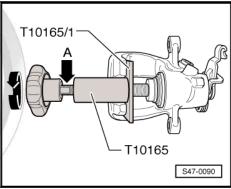
Use the resetting tool - T10165- to adjust the piston.

The automatic adjustment in the brake caliper is destroyed when adjusting the piston with a resetting tool e.g. -T10165- or by actuating the brake pedal.



 Screw the piston by turning the knurled wheel of the resetting tool - T10165- to the right into the brake caliper.





2.4 Repairing the brake caliper Bosch BIRIII



Note

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- ♦ Brake inspection ⇒ page 8.
- ♦ Install the complete repair set when undertaking repairs.
- ♦ Use only methylated spirits for cleaning the brake.
- ♦ Thinly coat brake cylinder, piston and gasket ring with lithium grease G 052 150 A2- .
- ◆ The brake calipers must absolutely be pre-bled before installing them in the vehicle (without brake pads) in case of a repair or when replacing them with new brake calipers ⇒ page 166.

Octavia II 2004 ➤ , Octavia II 2010 ➤ Brake systems - Edition 11.2017

1 - Brake caliper with lever for the handbrake cable

- replace brake caliper if the lever for the handbrake cable is not sealed
- pre-bleed brake caliper after undertaking replacement <u>⇒ page 166</u>

2 - Dust cap

3 - Vent valve, 10 Nm

□ thinly coat thread with lithium grease G 052 150 A2- before screwing in

4 - Self-locking screw, 35 Nm

- Replacing
- counterhold on the guide bolt when releasing and tightening

5 - Guide bolt

grease before fitting protective cap

6 - Boot

pull onto brake carrier and guide bolt

7 - Brake carrier with guide bolts and boots

- must be assembled with sufficient grease on the guide bolt, supplied as a spare part
- fit a repair set if there is any damage to the pro-

tective caps or guide bolts, use the enclosed grease packing to lubricate the guide bolts

□ Assignment ⇒ Electronic Catalogue of Original Parts

8 - Boot

- pull with inner sealing lip onto the piston
- ☐ Removing and installing ⇒ page 164

9 - Piston with automatic adjusting device

- □ Removing and installing ⇒ page 164
- ☐ thinly coat piston with assembly paste G 052 150 A2- before fitting

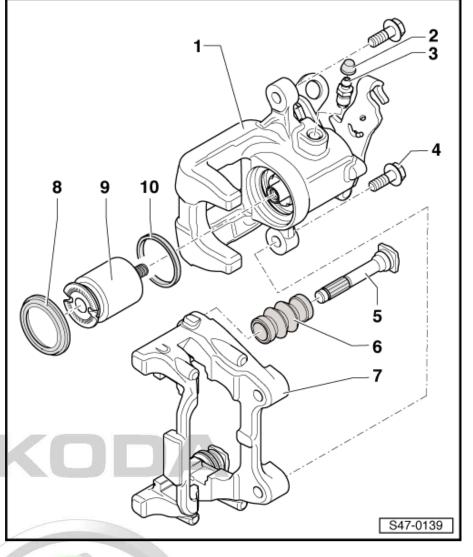
10 - Sealing ring

□ Removing and installing ⇒ page 164

2.5 Removing and installing the brake call whole, is not permitted per piston Bosch BIRIII nis document. Copyright by ŠKODA AUTO A. S.®

Special tools and workshop equipment required

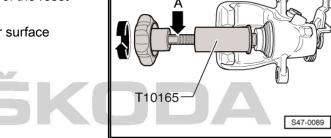
- ♦ Resetting tool T10165-
- Disassembly wedge 3409-



Removing:

Insert the resetting tool - T10165- in such a way that the collar is resting on the piston.

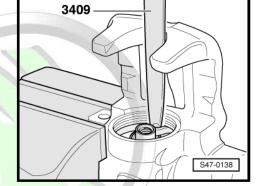
- Release the piston by turning the knurled wheel of the resetting tool T10165- to the left.
- Use open-jawed spanner on a provided spanner surface -arrow A- if the piston is difficult to move.



 Remove protective cap and gasket ring with disassembly wedge - 3409- .

Installing:

- Clean piston and gasket ring with white spirits and dry off.
- Before installing the piston and gasket ring thinly coat with lithium grease - G 052 150 A2- .



- Position the new protective cap with the inner sealing lip on the piston.
- Insert outer sealing lip of the protective cap with the disassembly wedge 3409- in the shoulder on the brake caliper.
- Carefully press on the protective cap up to the stop using the disassembly wedge - 3409- .
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Note

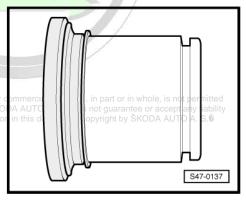
- Pay attention to the correct position of the protective cap in the brake caliper.
- ♦ Do not damage the protective cap when pressing it on.



Caution

Use the resetting tool - T10165- to adjust the piston.

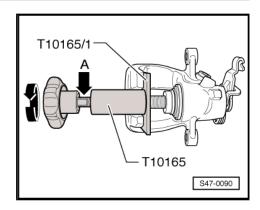
The automatic adjustment in the brake caliper is destroyed when adjusting the piston with a resetting tool e.g. -T10165- or by actuating the brake pedal.



Octavia II 2004 ➤ , Octavia II 2010 ➤ Brake systems - Edition 11.2017

Insert the resetting tool - T10165- in such a way that the collar is resting on the brake caliper.

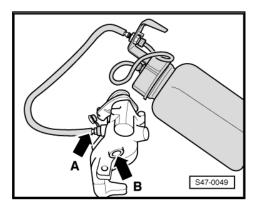
- Screw the piston by turning the knurled wheel of the resetting tool - T10165- to the right into the brake caliper.
- Check the correct position of the protective cap in the shoulder on the piston, if necessary correct the position using the disassembly wedge - 3409- .



2.6 Pre-bleeding the brake caliper

Set up brake caliper for pre-bleeding as shown in the fig.

- Open vent valve -arrow A-.
- Using a commercially available ventilation reservoir pour in brake fluid until bubble-free brake fluid drips out of the threaded bore (brake hose connection) -arrow B-.
- Close vent valve.







3 Checking the master brake cylinder for tightness

Special tools and workshop equipment required

- ♦ Brake system tester e. g. -V.A.G 1310 A-
- ♦ Adapter M 10 e.g. -V.A.G 1310/6-

Test requirements:

- Function and tightness of the brake system (brake lines, brake hoses, brake calipers, hydraulic unit) O.K.
- Unscrew and remove the bleeder screw on one of the front brake calipers.
- Connect the brake system tester e.g. V.A.G 1310 A- to the brake caliper and bleed.
- Push down brake pedal until the pressure gauge indicates 5 MPa (50 bar). Throughout the test which lasts 45 s the pressure loss must not exceed 0.4 MPa (4 bar). If the loss of pressure is higher, replace the master brake cylinder.
- Separate brake system tester e.g. V.A.G 1310 A- .
- Screw the bleeder screw into the caliper and bleed the brake caliper.



4 Bleeding brake system

Bleeding the brake system with the brake filling and bleeding device ⇒ page 168

Bleeding the brake system without using the brake filling and bleeding device <u>⇒ page 171</u>

Change brake fluid ⇒ page 172

4.1 Bleeding the brake system of air with the brake filling and bleeding device

Special tools and workshop equipment required

- ◆ Brake filling and bleeding device , e. g. -VAS 5234-
- ♦ Brake fluid ⇒ page 8



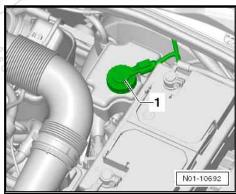
WARNING

- The brake fluid is hygroscopic, i.e. it retains humidity from the ambient air, and must therefore always be stored in airtight containers.
- Brake fluid must never come into contact with fluids containing mineral oils (oil, petrol, cleaning agent). Mineral oils damage the plugs and boots of the brake system.
- ◆ Drained (used) brake fluid must never be used again.
- ◆ The brake fluid is toxic, avoid skin contact.
- ♦ Because of its caustic effect, the brake fluid must not come into contact with paint.
- Rinse off spilled brake fluid using plenty of water.
- Dispose of brake fluid in compliance with the applicable waste disposal and environmental regulations.
- Bleeding brake system on vehicles with ABS or TCS/ESP (ESC), as for vehicles without ABS.
- ◆ Only use new brake fluid in accordance with the specification ⇒ page 8.

A pre-pressure of 0,2 MPa (2 bar) is required to bleed the brake system.

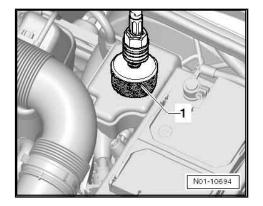
Unscrew cap -1- from the brake fluid reservoir.

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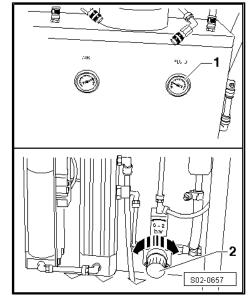




- Connect the thread plug -1- of the brake filling and bleeding device e.g. -VAS 5234- to the brake fluid reservoir.
- Switch on the brake filling and bleeding device e.g. -VAS 5234and activate the system with a brake fluid pressure of 0.2 MPa
 Operating instruction of the brake filling and bleeding device .



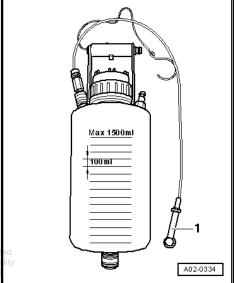
- Set the pressure e.g. by turning the regulating valve -2-.





- Provide a suitable catch pan for used brake fluid.
- Remove the dust caps of the bleeder valves at the brake calipers.







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Fit the hose of the bleeding bottle -1- onto the vent valve.



Note

- Use the tool set for brake bleeding VAS 6564- to loosen and tighten. While doing so, pull the bleeder hose through the socket insert with a corresponding hollow adapter piece from this set.
- Fit a torque wrench on the socket insert with a corresponding hollow adapter piece for tightening the vent valve.
- In view of the different versions of the wheels and the brake calipers, tightening the bleeder valves using the set of tools for brake bleeding - VAS 6564- (with the torque wrench inserted) cannot always be performed due to lack of space.
- In this case, the corresponding wheels must be removed from the vehicle. Do not exchange the wheels and mark their position to the wheel hub.
- Loosen bleeder valve.
- Extract as much brake fluid as possible until even the smallest air bubbles have escaped.
- Close vent valve.
- Tighten vent valve to corresponding tightening torque
 ⇒ page 153
- Repeat this procedure for all brake calipers in the prescribed sequence until the brake system is fully bled.

Bleeding sequence

- 1. Rear right brake caliper
- 2. Rear left brake caliper
- Front right brake caliper
- Front left brake caliper

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- Inspect pedal position and idle travel at brake pedal. Idle travel: el: max. 1/3 of pedal travel.
- Repeat the whole procedure if necessary (several times), until
 perfect bleeding is achieved.

Vehicles with ABS

- Perform basic setting of the ABS control unit using the diagnostic unit VAS- ⇒ Vehicle diagnostic tester.
- Proceed by referring to the read-out on the display of the diagnostic unit.

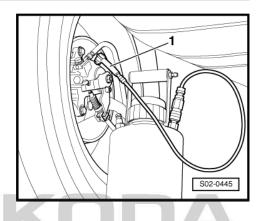


Caution

Before the basic setting of the ABS control unit is performed, first of all the brake system must be fully bled until even the smallest air bubbles have escaped from the system.

The air bubbles would penetrate into the ABS hydraulic unit when performing the basic setting of the ABS control unit.

It is very difficult to remove these air bubbles from the ABS hydraulic unit.





Continued for all vehicles

- Disconnect the brake filling and bleeding device .
- Disconnect the brake filling and bleeding device from the brake fluid reservoir.
- After bleeding close the relevant vent valve and fit dust cap.
- If necessary, correct the brake fluid level in the brake fluid res-
- Perform a test drive. While doing so, at least one ABS adjustment must be carried out on vehicles with ABS!

4.2 Bleeding the brake system of air without using the brake filling and bleeding de-

Special tools and workshop equipment required

- Bleeding bottle (commercially available)
- Brake fluid ⇒ page 8



WARNING

- The brake fluid is hygroscopic, i.e. it retains humidity from the ambient air, and must therefore always be stored in airtight containers.
- ♦ Brake fluid must never come into contact with fluids containing mineral oils (oil, petrol, cleaning agent). Mineral oils damage the plugs and boots of the brake system.
- Drained (used) brake fluid must never be used again.
- The brake fluid is toxic, avoid skin contact.
- Because of its caustic effect, the brake fluid must not come into contact with paint.
- Rinse off spilled brake fluid using plenty of water.
- Dispose of brake fluid in compliance with the applicable waste disposal and environmental regulations.
- Bleeding brake system on vehicles with ABS or TCS/ESP (ESC), as for vehicles without ABS.
- Only use new brake fluid in accordance with the specification <u>⇒ page 8</u> .
- While bleeding continuously check the brake fluid level in the brake fluid reservoir and top up brake fluid if necessary up to the "MAX" marking.
- Remove the dust caps of the bleeder valves at the brake cal-
- Provide a suitable catch pan for used brake fluid.
- Build up pressure in the brake system by pumping repeatedly the brake pedal.



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- Fit the hose of the bleeding bottle -1- onto the corresponding bleeder valve.
- Press brake pedal and then loosen the bleeder valve.

By doing so, the procedure for bleeding the brakes is performed.

- Tighten the bleeder valve with the brake pedal pressed down.
- Release brake pedal.
- Repeat this procedure until even the smallest air bubbles have escaped from the system.
- Close the relevant bleeder valve and fit on dust cap.
- Repeat this procedure for all brake calipers in the prescribed sequence until the brake system is fully bled.

Bleeding sequence

- 1. Rear right brake caliper
- 2. Rear left brake caliper
- 3. Front right brake caliper
- 4. Front left brake caliper
- Inspect pedal position and idle travel at brake pedal. Idle travel: max. 1/3 of pedal travel.
- Repeat the whole procedure if necessary (several times), until perfect bleeding is achieved.

Vehicles with ABS

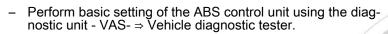


Caution

Before the basic setting of the ABS control unit is performed, first of all the brake system must be fully bled until even the smallest air bubbles have escaped from the system.

The air bubbles would penetrate into the ABS hydraulic unit when performing the basic setting of the ABS control unit.

It is very difficult to remove these air bubbles from the ABS hydraulic unit.

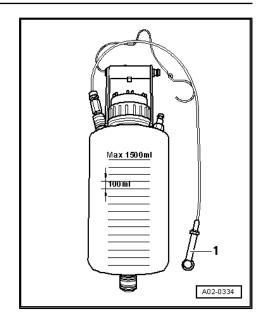


Continued for all vehicles

Perform a test drive. While doing so, at least one ABS adjustment must be carried out on vehicles with ABS!

4.3 Change brake fluid

⇒ Maintenance : Booklet Octavia II







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5 Summary of Components: brake servo unit/master brake cylinder

Summary of components - left-hand drive <u>⇒ page 173</u>

Summary of components - right-hand drive ⇒ page 176

Fitting position of the cap from the brake fluid reservoir ⇒ page 177

Vacuum pump for brake servo unit (vehicles with diesel engines) ⇒ page 178

Brake vacuum pump - V192- (vehicles with petrol engines) ⇒ page 178

Checking the non-return valve ⇒ page 181

Checking vacuum system ⇒ page 181

Removing and installing the pressure sensor for the brake servo unit -G294- ⇒ page 185

5.1 Summary of components - left-hand drive



Note

The master brake cylinder and the brake servo unit can be replaced independently of one another.



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1 - Foot controls

- different versions
- □ Assignment ⇒ Electronic Catalogue of Original parts

2 - Self-locking nut, 25 Nm

□ replace after each removal

3 - Brake servo

- on petrol engines, the required negative pressure is drawn from the intake manifold or it is generated with a vacuum pump
- Vehicles fitted with petrol engines and automatic gearbox are equipped with a brake vacuum pump - V192-⇒ page 178 .
- vehicles using a diesel engine are fitted with a vacuum pump for generating a low pressure ⇒ page 178
- □ Inspect proper operation:
- With the engine off press down brake pedal repeatedly with force (this reduces the pressure already present in the device).

Now step on and hold brake pedal with medium pressure and start engine. If the brake servo is functioning properly, the brake pedal will be felt to go down as the servo takes effect.

- ☐ if there are faults replace completely
- □ Removing and installing ⇒ page 192

4 - Gasket

- for brake servo
- □ Assignment ⇒ Electronic Catalogue of Original parts

5 - Vacuum line

■ with non-return valve

6 - Pressure sensor for the brake servo unit -G294-

- only on vehicles with petrol engines with brake vacuum pump
- □ Removing and installing ⇒ page 185
- ☐ Check ⇒ Vehicle diagnostic tester

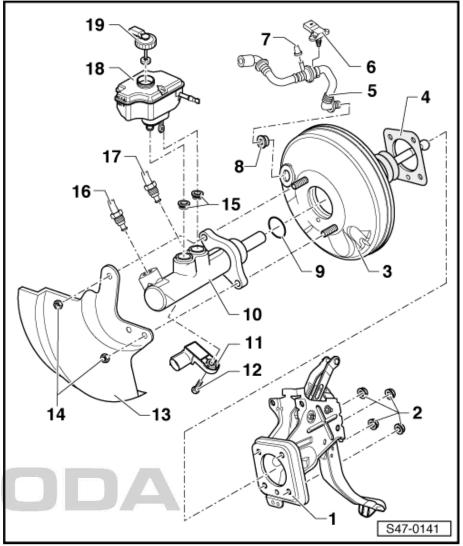
7 - Dummy plug

- 8 Sealing grommet A AUTO A. S. ŠKODA AUTO A. S. does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by ŠKODA AUTO A. S.® for the connection of the vaccum hose

9 - Sealing ring

10 - Master brake cylinder

cannot be repaired



☐ if there are faults replace completely
☐ Removing and installing <u>⇒ page 186</u>
□ Assignment ⇒ Electronic Catalogue of Original Parts
11 - Brake light switch -F- and brake pedal switch -F47-
☐ installed from 11/05
☐ Fitting location: on master brake cylinder
☐ Removing and installing <u>⇒ page 139</u>
☐ Check ⇒ Vehicle diagnostic tester
12 - Screw, 5 Nm
13 - Protection plate
□ Assignment ⇒ Electronic Catalogue of Original Parts
14 - Self-locking nut, 25 Nm
□ replace after each removal
15 - Sealing grommets
 moisten with brake fluid and press in brake fluid reservoir
16 - Brake line, 14 Nm
☐ Master brake cylinder/push rod piston circuit to hydraulic unit
17 - Brake line, 14 Nm
 Master brake cylinder/push rod piston circuit THV to hydraulic unit
18 - Brake fluid reservoir
19 - Screw cap
 Check fitting position ⇒ page 177

5.2 Summary of components - right-hand drive



Note

The master brake cylinder and the brake servo unit can be replaced independently of one another.

1 - Screw cap

Check fitting position ⇒ page 177

2 - Brake fluid reservoir

3 - Sealing grommets

moisten with brake fluid and press in brake fluid reservoir

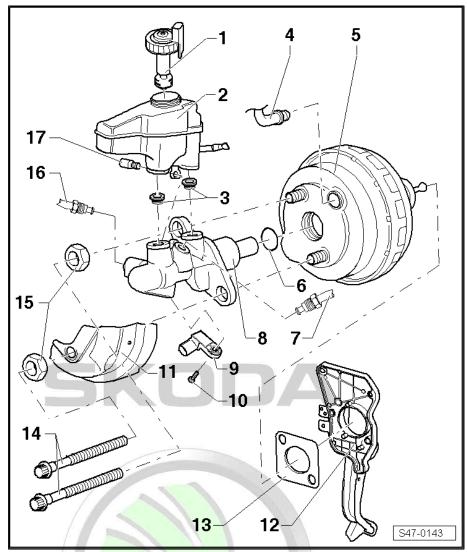
4 - Vacuum hose

positioned in the brake servo unit

5 - Brake servo

- on petrol engines, the required negative pressure is drawn from the intake manifold or it is generated with a vacuum pump
- Vehicles fitted with petrol engines and automatic gearbox are equipped with a brake vacuum pump - V192-⇒ page 178 .
- vehicles using a diesel engine are fitted with a vacuum pump for generating a low pressure ⇒ page 178
- ☐ Inspect proper operation:
- With the engine off press down brake pedal repeatedly with force

(this reduces the pressure already present in the device).



- Now step on and hold brake pedal with medium pressure and start engine. If the brake servo is functioning properly, the brake pedal will be felt to go down as the servo takes effect.
- ☐ if there are faults replace completely
- □ Removing and installing ⇒ page 192

6 - Gasket

for brake servo

7 - Brake line, 14 Nm

☐ Master brake cylinder/push rod piston circuit THV to hydraulic units, in part or in whole, is not permitted

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8 - Master brake cylinder

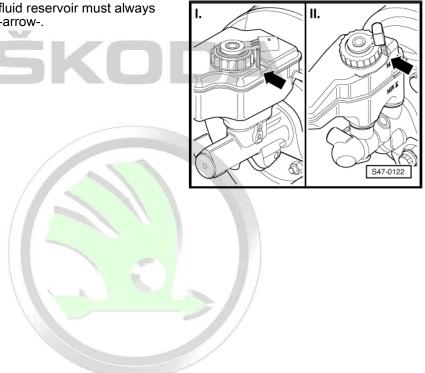
- cannot be repaired
- ☐ if there are faults replace completely
- □ Removing and installing ⇒ page 186

- ☐ Assignment ⇒ Electronic Catalogue of Original Parts
- 9 Brake light switch -F- and brake pedal switch -F47-
 - ☐ mounted as of 11.2005
 - ☐ Fitting location: on master brake cylinder
 - ☐ Removing and installing ⇒ page 149
 - ☐ Check ⇒ Vehicle diagnostic tester
- 10 Screw, 5 Nm
- 11 Protection plate
 - ☐ Assignment ⇒ Electronic Catalogue of Original Parts
- 12 Foot controls
 - different versions
 - ☐ Assignment ⇒ Electronic Catalogue of Original parts
- 13 Gasket
 - ☐ Assignment ⇒ Electronic Catalogue of Original parts
- 14 Screw, 25 Nm
 - serves, at the same time, to secure the brake master cylinder and the brake servo unit.
- 15 Nut, 50 Nm
 - replace after each removal
- 16 Brake line, 14 Nm
 - ☐ Master brake cylinder/push rod piston circuit to hydraulic unit
- 17 Screw, 3.5 Nm

5.3 Fitting position of the cap from the brake fluid reservoir

The rig pin of the cap from the brake fluid reservoir must always point to the recesses in the reservoir -arrow-.

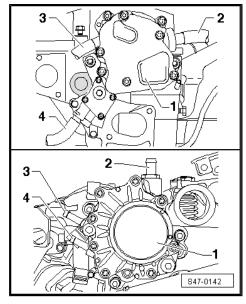
- I Left-hand drive
- II Right-hand drive



5.4 Vacuum pump for brake servo unit (vehicles with diesel engines)

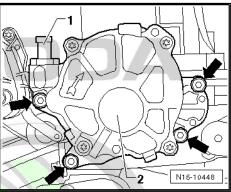
Vacuum pump for engines TDI PD:

- 1 Tandem pump (vacuum pump and fuel pump)
- 2 Vacuum hose with non-return valve (to brake servo unit)
- 3 Fuel line
- 4 Fuel line
- Removing and installing the tandem pump ⇒ Engine; Rep. gr. 20 .



Vacuum pump for engines TDI CR:

- 1 Vacuum line to brake booster
- 2 Vacuum pump
- Removing and installing vacuum pump ⇒ Engine; Rep. gr.



5.5 Brake vacuum pump - V192- (vehicles with petrol engines)

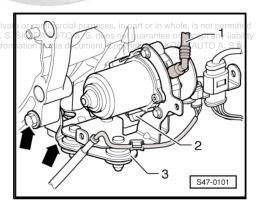
The brake vacuum pump - V192- is located at the front of the gearbox.

No provision is made for repairing the brake vacuum pump - V192- . The brake vacuum pump - V192- must be replaced if a fault arises.

Check ⇒ Vehicle diagnostic tester

Removing:

- Remove the vacuum hose -1- from the brake vacuum pump V192- .
- Disconnect the plug connection -2- of the brake vacuum pump
 V192- .
- Remove all the plug connections and cables from the support -3-.
- Unscrew bracket -3- with brake vacuum pump V192--arrows-.

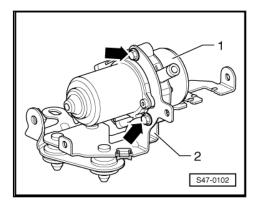




 Unscrew brake vacuum pump - V192- -1- from bracket -2--arrows-.

Installing:

Installation is carried out in the reverse order.









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Specified torques:

Brake vacuum pump - V192- to support	8 Nm
Support to automatic gearbox	25 Nm

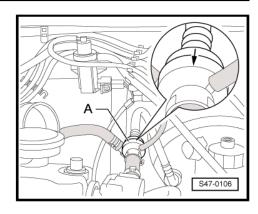




5.6 Checking the non-return valve

- The non-return valve must let the air pass through in the direction of the arrow -A-.
- Non-return valve must remain closed in opposite direction.

Pay attention to correct installation position!



5.7 Checking vacuum system

The following instructions are intended to help you find the causes of problems effectively and objectively in the event of complaints about the brake servo or in the event of a so-called »»hard brake pedal««.

This check relates to the following components:

- Brake booster.
- ♦ Oil seal between brake master cylinder and brake servo.
- Non-return valve.
- Vacuum hoses with connectors.
- Vacuum pump (if included).

The measuring results will be influenced by the geographical location. The higher the location is above sea level, the lower the air pressure will be.

Take note of the following test requirements:

- Visual inspection of all vacuum hoses for damage (e.g. cracks or marten bite) and to check that they are correctly and firmly attached
- ♦ Ensure cleanliness when working on vacuum system.
- ♦ Before starting work, clean engine compartment if necessary.

Special tools and workshop equipment required

♦ Vacuum gauge for brake servo - VAS 6721-

5.7.1 Connecting vacuum gauge for brake servo - VAS 6721-

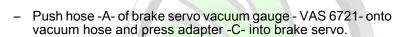
Pull vacuum hose out of brake servo.

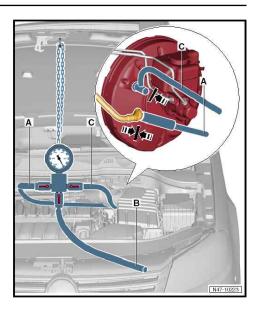
First press the brake pedal several times in order to facilitate removal of the vacuum hose.

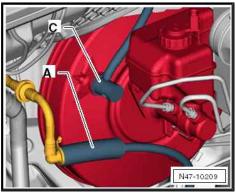


 Place brake servo vacuum gauge - VAS 6721- between them -see following illustrations-.

Posi- tion	Com- po- nent	Meaning
A	Cut- off valve	In direction of vacuum hose, non-return valve and, if included, vacuum pump
В	Cut- off valve	 Open to facilitate removal of brake servo vacuum gauge - VAS 6721- Open to simulate a fault source Connection of manual vacuum pump - VAS 6213-
С	Cut- off valve	In direction of brake servo







5.7.2 unless a **Checking vacuum generation** not guarantee or accept any liabil with 1 control of the second second



Note

- ♦ The average air pressure of the earth's atmosphere at sea level is 1013 mbar and decreases steeply as the altitude increases (approx. 100 mbar/1,000 m altitude). Local and time variations also influence the vacuum generation.
- A cold engine, a switched-on air-conditioning system as well as engine idling have an adverse influence on generation of a vacuum.
- Before starting work, check all vacuum hoses for damage (e.g. cracks or marten bite) and to check that they are correctly and firmly attached
- Place vacuum gauge for brake servo VAS 6721- in between
 ⇒ page 181 .

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- Open locking valve -A-.
- Close cut-off valves -B+C-.
- Start warm engine (> 60°C), press accelerator briefly (engine speed greater than 2000/min).
- Read indicated measured value.

Normally (see notes), the vacuum that is generated should be between 700 and 950 mbar (depending on engine size).

If the measured value is not reached even through the preconditions (see notes) have been met, the vacuum system must first be checked for tightness.

 For comparison purposes, generate the vacuum with the manual vacuum pump - VAS 6213- ⇒ page 184.

Open cut-off valve -B- to facilitate removal of hose connections and adapter.

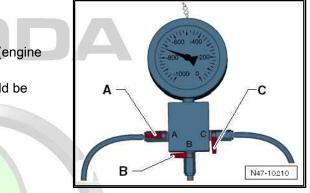
5.7.3 Checking for leaks

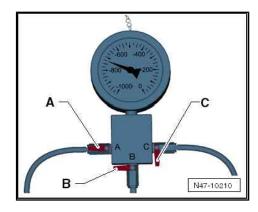


Note

- ♦ The average air pressure of the earth's atmosphere at sea level is 1013 mbar and decreases steeply as the altitude increases (approx. 100 mbar/1,000 m altitude). Local and time variations also influence the vacuum generation.
- A cold engine, a switched-on air-conditioning system as well as engine idling have an adverse influence on generation of a vacuum.
- Before starting work, check all vacuum hoses for damage (e.g. cracks or marten bite) and to check that they are correctly and firmly attached
- Place vacuum gauge for brake servo VAS 6721- in between
 ⇒ page 181 .
- Open locking valve -A-.
- Close cut-off valves -B+C-.
- Start warm engine (> 60°C), press accelerator briefly (engine speed greater than 2000/min).

Normally (see notes), the vacuum that is generated should be between 700 and 950 mbar (depending on engine size).





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- Open cut-off valve -C- to evacuate brake servo.
- Switch off engine.
- Read and make a note of measured value shown.

A vacuum decrease of 400 mbar in 12 hours is permissible.

If the vacuum decrease is greater, then check for leaks in the vicinity of ...

1 - Brake servo

or

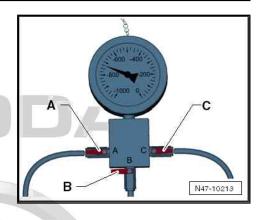
 Non-return valve, vacuum hoses with connectors and vacuum pump/intake manifold.

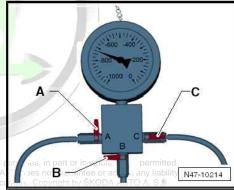
If there are large leaks, the vacuum decreases steeply within a few seconds.

Vacuum check in vicinity of brake servo:

 After generation of vacuum, close cut-off valve -A- in order to check brake servo vacuum system.

Vacuum check in vicinity of non-return valve, vacuum hoses with connectors and vacuum pump/intake manifold:

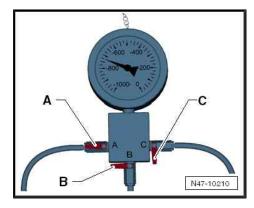




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Once vacuum has been generated, close the shut-off valve
 -C- in order to check the vacuum system of the brake servo
 vacuum gauge - VAS 6721- up to the intake manifold or the
 vacuum pump.

Open cut-off valve -B- to facilitate removal of hose connections and adapter.



5.7.4 Vacuum generation with manual vacuum pump - VAS 6213-

Instead of vacuum generation by means of engine or vacuum pump, the vacuum can be generated with the manual vacuum pump - VAS 6213- in certain cases.

- Connect manual vacuum pump VAS 6213- to vacuum hose from connection -B- on brake servo vacuum gauge - VAS 6721- .
- Open cut-off valve -B-.
- Generate vacuum with hand vacuum pump VAS 6213- until between 600 and 950 mbar is shown on brake servo vacuum gauge - VAS 6721- .
- Subsequently, carry out the corresponding checks.

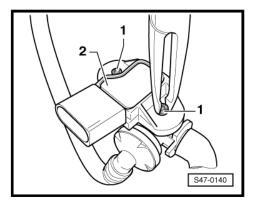
5.8 Removing and installing the pressure sensor for the brake servo unit -G294-

Removing:

- Disconnect the plug from the pressure sensor for the brake servo unit -G294- .
- Pull the vacuum line with the pressure sensor for the brake servo unit -G294- out of the brake servo unit.
- Unlatch clamps -1- e.g. with pliers.
- Carefully lever off the pressure sensor for the brake servo unit
 -G294- -2- from the vacuum line.

Installing:

Installation is carried out in the reverse order.







6 Master brake cylinder

Remove and install master brake cylinder - left-hand drive ⇒ page 186

Remove and install master brake cylinder - right-hand drive ⇒ page 189

6.1 Removing and installing master brake cylinder - left-hand drive

Special tools and workshop equipment required

- ♦ Repair kit 1H0 698 311 A-
- ♦ Brake filling and bleeding device , e. g. -VAS 5234-

Removing:

- On models fitted with a coded radio, pay attention to the coding, determine if necessary.
- Remove battery ⇒ Electrical System; Rep. gr. 27.
- Remove inlet connection and air filter ⇒ Engine; Rep. gr. 23
 or ⇒ Engine; Rep. gr. 24 .
- Remove battery ⇒ Electrical System; Rep. gr. 27.

Vehicles with turbocharger engines

- Disconnect the plug of the air mass meter G70.
- Remove suction hose between air filter and exhaust gas turbocharger ⇒ Engine; Rep. gr. 23 or ⇒ Engine; Rep. gr. 21.
- Remove the connecting hose between the filler tube and the exhaust gas turbocharger (if necessary remove the whole filler tube) ⇒ Engine; Rep. gr. 21.

Continued for all vehicles

- Lay sufficient non-fluffing cloths around the engine and gearbox.
- Extract as much brake fluid as possible from the brake fluid reservoir.

For vehicles with manual gearbox

 Detach the return hose -B- of the clutch master cylinder from the brake fluid reservoir and attach it slightly higher.

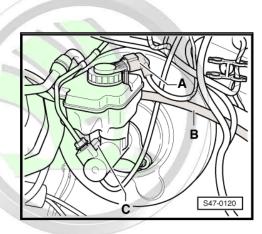
Continued for all vehicles

- Disconnect plug -A- from brake fluid level warning contact .
- Remove the brake fluid reservoir, to this end press the latches at the reservoir outwards and at the same time pull the brake fluid reservoir out of the sealing plugs.

on vehicles as of 11/2005

 Disconnect plug connection -C- from brake light switch - F- (on vehicles with the brake light switch - F- on the master brake cylinder).

Continued for all vehicles



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- Unscrew the brake lines -1- at the master brake cylinder, close the brake lines with the screw plugs from the repair kit - 1H0 698 311 A- .
- Unscrew nuts -2- from brake master cylinder.
- If present, remove the protection plate.
- Carefully remove brake master cylinder from brake servo.

Installing:

Installation is carried out in the reverse order.

When installing, pay particular attention to the following points:



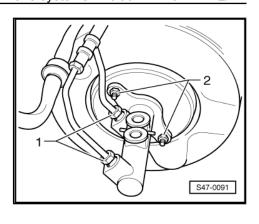
Note

If the battery earth strap is disconnected and connected, carry out certain additional operations ⇒ Electrical System; Rep. gr. 27.

When installing the master brake cylinder with the brake servo unit pay attention to the correct positioning of the pressure rod in the master brake cylinder.

After installing, it is necessary to:

- Bleed brake system ⇒ page 168.
- Bleed clutch ⇒ Gearbox; Rep. gr. 30.





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Specified torques:

Brake master cylinder to brake servo ◆ Use new nuts!	25 Nm
Brake lines to master brake cylinder	14 Nm





6.2 Removing and installing master brake cylinder - right-hand drive

Special tools and workshop equipment required

- ♦ Repair kit 1H0 698 311 A-
- ◆ Brake filling and bleeding device , e. g. -VAS 5234-

Removing:

Remove engine cover ⇒ Engine.; Rep. gr. 13

Vehicles with diesel engines TDI PD without DPF

- Remove connecting hose to intake manifold flap ⇒ Engine;
 Rep. gr. 21 .
- Slacken the fuel lines at the engine head ⇒ Relevant engine;
 Rep. gr. 21.
- Remove top cover for timing chain ⇒ Engine; Rep. gr. 13.

Vehicles with diesel engines TDI PD with DPF

Remove diesel particle filter ⇒ Engine; Rep. gr. 26.

Vehicles with diesel engines TDI CR

Remove diesel particle filter ⇒ Engine; Rep. gr. 26.

- Lay sufficient non-fluffing cloths around the engine and gearbox.
- Extract as much brake fluid as possible from the brake fluid reservoir.
- Remove filler neck for washer-fluid reservoir and lay it to one side.
- Remove the coolant expansion bottle and lay it to one side.
- Slacken the fuel feed and fuel return line from the plastic clip.
- Separate the plug connection from the solenoid valve of the diesel particle filter.
- Unscrew the bracket for the solenoid valve and lay it to one side.

Continued for all vehicles

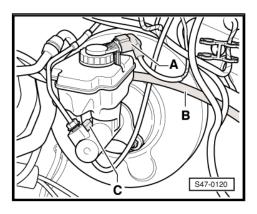
- Lay sufficient non-fluffing cloths around the engine and gear or private or commercial purposes, in part or in whole, is not permitted unless authorised by SKODA AUTO A. S. ŠKODA AUTO A. S. does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by ŠKODA AUTO A. S.
- Extract as much brake fluid as possible from the brake fluid reservoir.

For vehicles with manual gearbox

 Detach the return hose -B- of the clutch master cylinder from the brake fluid reservoir and attach it slightly higher.

Continued for all vehicles

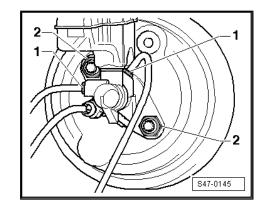
Disconnect plug -A- from brake fluid level warning contact .





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- Unscrew the brake lines -1- at the master brake cylinder, close the brake lines with the screw plugs from the repair kit - 1H0 698 311 A- .
- Unscrew nuts -2- from brake master cylinder.
- If present, remove the protection plate.



 Slightly pull off the master brake cylinder from the brake servo unit.

on vehicles as of 11/2005

 Disconnect plug connection -1- from brake light switch - F- (on vehicles with the brake light switch - F- on the master brake cylinder).

Continued for all vehicles

- Carefully remove the master brake cylinder -4-.

Installing:

- Installation is carried out in the reverse order.

When installing, pay particular attention to the following points:



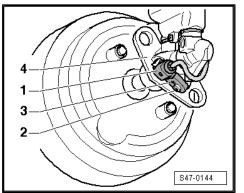
Note

If the battery earth strap is disconnected and connected, carry out certain additional operations ⇒ Electrical System; Rep. gr. 27.

 When installing the master brake cylinder with the brake servo unit pay attention to the correct positioning of the pressure rod in the master brake cylinder.

After installing rit is necessary to: or commercial purposes, in part or in whole, is not permitted unless authorised by SKODA AUTO A. S. SKODA AUTO A. S. does not guarantee or accept any liability

- Bleed brake system page 168 in this document. Copyright by ŠKODA AUTO A. S. €
- Bleed clutch ⇒ Gearbox; Rep. gr. 30.



Specified torques:

Brake master cylinder to brake servo ◆ Use new nuts!		50 Nm
Brake lines to master brake cylinder	~-	14 Nm





7 Brake servo

Functional test ⇒ page 192.

Remove and install brake servo unit - left-hand drive ⇒ page 192

Remove and install brake servo unit - right-hand drive ⇒ page 195

7.1 Check function

- With the engine off press down brake pedal repeatedly with force (this reduces the pressure already present in the device).
- Now step on and hold brake pedal with medium pressure and start engine. If the brake servo is functioning properly, the brake pedal will be felt to go down as the servo takes effect.

7.2 Removing and installing brake servo unit - left-hand drive

Special tools and workshop equipment required

♦ Brake filling and bleeding device , e. g. -VAS 5234-

Removing:

Removing driver side trim panel ⇒ Body Work; Rep. gr. 70.

Vehicles up to 11/2005

- Unplug connector -1- from the brake light switch (if present).
- Remove brake light switch -2- (if present) by turning 45° to the left.

Continued for all vehicles

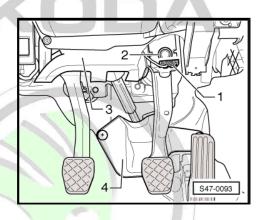
- Separating the brake pedal from the brake servo unit
 ⇒ page 137
- Remove master brake cylinder ⇒ page 186.

Vehicles with LPG drive

- Unscrew the evaporator from the evaporator holder and lay it to one side ⇒ 1.6/72 kW; 75 kW engine; Rep. gr. 24.
- Remove evaporator holder ⇒ 1.6/72 kW; 75 kW engine; Rep. gr. 24.

Continued for all vehicles

Remove vacuum hose from the brake servo unit.



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- Unscrew nuts -1- from brake servo unit.
- Carefully remove the brake servo unit from the vehicle.

Installing:

Installation is carried out in the reverse order.



Note

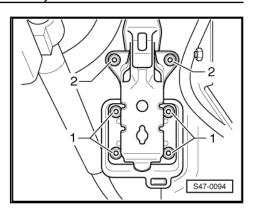
If the battery earth strap is disconnected and connected, carry out certain additional operations ⇒ Electrical System; Rep. gr. 27.

After installing, it is necessary to:

- Bleed brake system ⇒ page 168.
- Bleed clutch ⇒ Gearbox; Rep. gr. 30.

Vehicles up to 11/2005

Setting the brake light switch ⇒ page 138.







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Specified torques:

Brake servo unit to foot controls ◆ Use new nuts!	25 Nm
Brake master cylinder to brake servo ◆ Use new nuts!	25 Nm
Brake lines to master brake cylinder	14 Nm





7.3 Removing and installing brake servo unit - right-hand drive

Special tools and workshop equipment required

- ♦ Brake filling and bleeding device , e. g. -VAS 5234-
- ♦ Screw plug set for engine VAS 6122/40-
- ♦ Supporting device T30099-
- ♦ Supporting plate T30099/1-
- ♦ Hook MP9-200/3-

Removing:

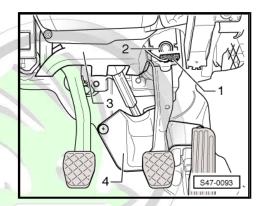
- Removing driver side trim panel \Rightarrow Body Work; Rep. gr. 70 .

Vehicles up to 11/2005

- Unplug connector -1- from the brake light switch (if present).
- Remove brake light switch -2- (if present) by turning 45° to the left.

Continued for all vehicles

Separating the brake pedal from the brake servo unit
 ⇒ page 145 .





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- Remove bulkhead plenum chamber ⇒ Body; Rep. gr. 66.
- Remove vacuum hose from the brake servo unit.

Vehicles with diesel engines TDI PD with DPF

Remove diesel particle filter ⇒ Engine; Rep. gr. 26

- Remove master brake cylinder ⇒ page 189
- Remove the connecting hose between the intake manifold flap and the compressed air cooler ⇒ Engine; Rep. gr. 21.
- Remove suction hose between exhaust gas turbocharger and air filter ⇒ Engine; Rep. gr. 23
- Close the exhaust gas turbocharger e.g. with plugs from the plug set for engine - VAS 6122/40-.
- Unscrew the screws for the connection pipe of the exhaust gas recirculation from the exhaust pipe ⇒ Engine; Rep. gr. 21.
- Remove inlet connection with mechanical exhaust gas recirculation valve and intake manifold flap ⇒ Engine; Rep. gr. 23.
- Remove intake manifold ⇒ Engine; Rep. gr. 23.



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 Remove master brake cylinder ⇒ page 189 correctness of information in this document. Copyright by \$KODA AUTO A. S.®
- Remove the connecting hose between the intake manifold flap and the compressed air cooler ⇒ Engine; Rep. gr. 21.
- Remove suction hose between exhaust gas turbocharger and air filter ⇒ Engine; Rep. gr. 23
- Close the exhaust gas turbocharger e.g. with plugs from the plug set for engine - VAS 6122/40-.
- Unscrew the screws for the connection pipe of the exhaust gas recirculation from the exhaust pipe ⇒ Engine; Rep. gr. 21.
- Remove inlet connection with mechanical exhaust gas recirculation valve and intake manifold flap ⇒ Engine; Rep. gr. 23.
- Remove intake manifold ⇒ Engine; Rep. gr. 23.

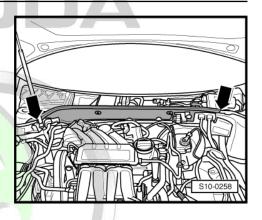
Vehicles with diesel engines TDI CR

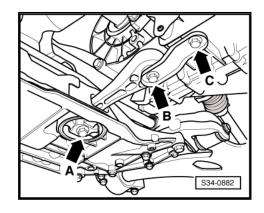
Remove diesel particle filter ⇒ Engine; Rep. gr. 26 .

Remove master brake cylinder ⇒ page 189.

Continued for all vehicles

Unscrew screws of pendulum support -arrow B- and -arrow C-.





- Unscrew the screws -1- of the brake servo unit and remove.

Vehicles with diesel engines TDI CR

- Remove cover for timing belt.
- Attach the engine on the right to the supporting device -T30099- .
- Partially lower the engine on the right vehicle side by approx.
 60 to 70 mm ⇒ Engine; Rep. gr. 10 or ⇒ Engine; Rep. gr.
 13, while doing so pay attention to all the lines.
- Slightly pull the engine towards the front with the assistance of a second mechanic.
- Swivel the brake servo unit with a pressure rod via the camshaft belt pulley.

Vehicles with diesel engines TDI PD

- Swivel the brake servo unit in the space above the exhaust gas turbocharger.
- Slightly tilt the engine forward.

Continued for all vehicles

- Remove the brake servo unit from the vehicle.

Installing:

Installation is carried out in the reverse order.



Note

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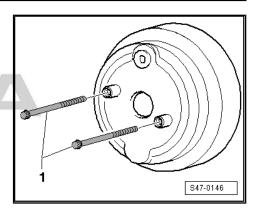
If the battery earth strap is disconnected and connected, carry out certain additional operations ⇒ Electrical System; Rep. gr. 27.

After installing, it is necessary to:

- Bleed brake system ⇒ page 168.
- Bleed clutch ⇒ Gearbox; Rep. gr. 30.

Vehicles up to 11/2005

Setting the brake light switch ⇒ page 149.





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Specified torques:

Brake master cylinder to brake servo ◆ Use new nuts!	50 Nm
Screw for brake servo unit to foot controls	
Brake lines to master brake cylinder	14 Nm



8 **Brake line**

Repairing brake line ⇒ page 199

Flaring tool - Summary of components ⇒ page 201

Work instruction ⇒ page 201

8.1 Repairing brake lines

Using the brake line flaring tool - VAS 6056- , the brake lines can be crimped with a pipe outside diameter of 5 mm, without damaging the coating. So that in certain cases parts of the brake lines can be replaced cheaply.



Note

- Brake lines must only be bent max. 90°, otherwise they kink or present deformations, which constrain the line cross-section in an unauthorized manner.
- Preferably separate brake lines at underbody.
- The positions of the intermediate pieces must be selected so that they cannot chafe on moving parts.
- ♦ Do not grease spindle and only clean with methylated spirits.

Special tools and workshop equipment required

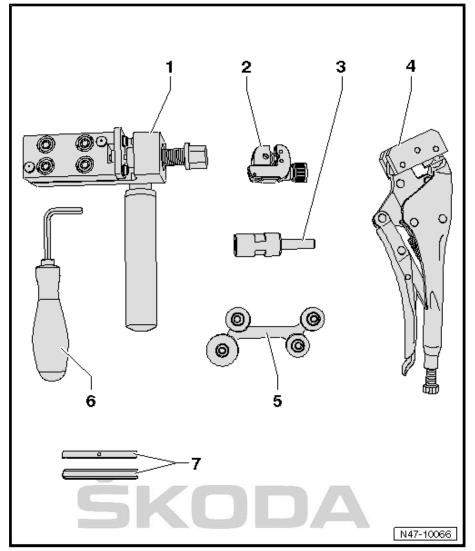
- ◆ Brake line flaring tool VAS 6056-
- Brake filling and bleeding device, e.g. -VAS 5234-

List of individual tools:

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- 1 Flaring tool VAS 6056/1-
 - ☐ The flaring chucks -VAS 6056/6- are included in the flaring tool -VAS 6056/1-
- 2 Pipe cutter VAS 6056/2-
- 3 Brake line-peeler VAS 6056/3 -
 - ☐ The grub screws (in the shank and sideways) are adjusted and must not be altered!
- 4 Gripping pliers with plastic chuck jaws VAS 6056/4 -
- 5 Pipe bending tool VAS 6056/5-
- 6 Offset screwdriver SW6
- 7 Flaring chucks VAS 6056/7-





8.2 Flaring tool - summary of components

1 - Flaring tool upper part

unscrew for changing the flaring chucks

2 - Attachment for door handle

must be unscrewed to access securing bolt for upper part

3 - Fixing screw

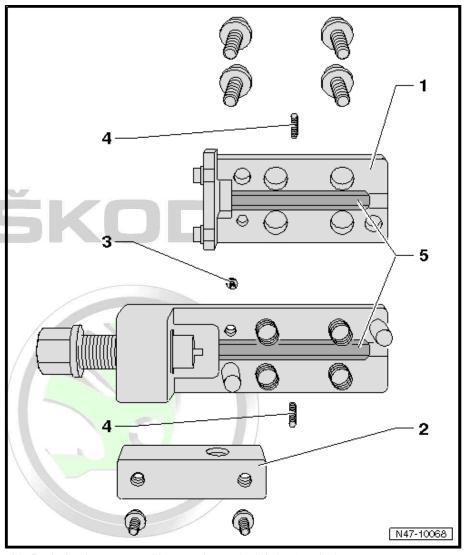
□ For flanging tool upper

4 - Grub screws for flaring chucks

- For centring and holding the flaring chucks
- 2 mm hexagon socket

5 - Flaring chucks

- Various
- Assembly instructions ⇒ page 201



Mounting instruction for flaring chucks:

- ♦ VAS 6056/6 (dark) for black brake lines
- VAS 6056/7 (bright) for green brake lines

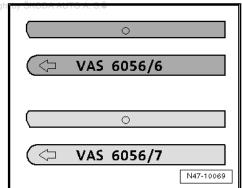


Note

The arrow, on the rounded side of the flaring chucks, must point to the housing edge and the straight side of the flaring chucks must be installed to the spindle, otherwise the flaring head is not properly formed.

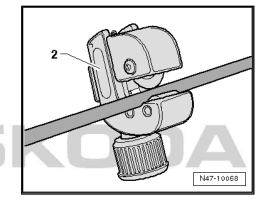
8.3 Work instruction

Unscrew the affected brake line on the brake caliper or wheelbrake cylinder, while doing so collect escaping brake fluid and dispose according to the specifications.



Octavia II 2004 ➤ , Octavia II 2010 ➤ Brake systems - Edition 11.2017

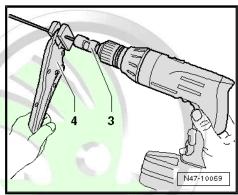
- Cut through the brake line in a suitable location (straight, freely accessible piece) with the pipe cutter -2-.
- Remove the part to be replaced.
- Degrease the surface of the brake line.

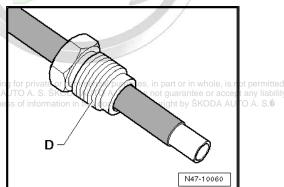


- Clamp the brake line in the gripping pliers -4- tight enough, so that it protrudes approx. 50 mm out of the plastic chuck jaws.
- Tension the peeler -3- in a boring machine and place it onto the brake line.
- Peel off the coating of the brake line using the slower speed of the boring machine and by exerting a slight pressure against the brake line.

The length of the peeling is determined by the stop in the peeler.

- Separate the peeler from the brake line and remove peel residues.
- Remove the gripping pliers and push the pipe screw -D- onto the brake line.





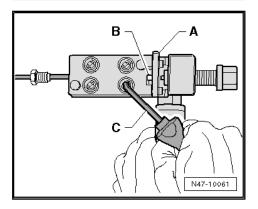
Push the brake line -B- against the stop -A- in the flaring tool.



Note

When tightening the Allen screws the brake line must lie against the stop, otherwise the flaring head does not function properly.

Pre-tension the brake line in the flaring tool so that the brake line can no longer be moved. Fold up the stop -A- and then tighten the Allen screws crosswise completely with the offset screwdriver -C-.



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- Turn the spindle in the flaring tool up to the stop.
- Turn back the spindle once again.
- Loosen the Allan screws crosswise.
- Take the brake line out of the flaring tool, clean and check the brake line as well as the flaring head.

Briefly flush the part of the brake line still in the vehicle:

- Connect brake filling and bleeding device, e.g. -VAS 5234-.
- Fit the hose of the bleeding bottle onto the flaring head of the brake line and allow the brake filling and bleeding device e.g. -VAS 5234- to run briefly, until some brake fluid has passed through.
- Purge the brake line that you will be fitting with compressed
- Assemble the brake lines together with the connecting piece
- Install brake line.
- Bleed brake system ⇒ page 168.

