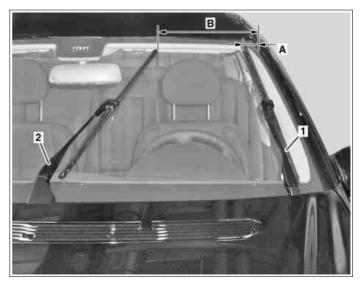
### MODEL 211, 215, 220, 222, 230, 231, 240

### Shown on model 211, wiper system in reversing position

- 1 Driver-side wiper arm
- 2 Passenger-side wiper arm
- A Distance between driver-side wiper blade and A-pillar
- B Distance between front passenger side wiper blade and A-pillar



P82.30-2318-11

4	Check		
⚠ Danger!	Injury hazard from pinching and crushing, in extreme cases extremities can even be cut off when caught in windshield wiper mechanism.	Always remove ignition key when working on windshield wiper mechanism.	AS82.30-Z-0001-01A
I	Move wiper system from parked position	<b>I</b> To do this, turn on ignition (circuit 15 or circuit 15R) and move wiper switch to position "Two". After the wiper system has left the park position, turn off ignition and move wiper switch back to position "Zero".	
2	Manually position wiper system into reversing position	<ul> <li>Distance between wiper blade on driverside to A-pillar (A): Model 211, 215, 220, 230, 231 approx. 50 mm, Model 240 approx. 70 mm.</li> <li>Distance between passenger-side wiper blade and A-pillar (B): MODEL 211 approx. 350 mm, MODEL 211 approx. 600 mm, In MODEL 215, 220, 230 and 240 the distance between the passenger-side wiper blade and the A-pillar (B) results from the distance between the driver-side wiper blade and the A-pillar (A). For left-hand drive vehicles, measured from the upper wiper blade end of the driver-side wiper blade (1) and the front passenger side wiper blade (2) to the inside of the driver-side wiper blade (1) and the front passenger side wiper blade (2) to the inside of the driver-side wiper blade (2) to the inside of the right A-</li> </ul>	
3	Remove wiper blades	pillar. When working on raised driver-side wiper arm (1) or passenger side wiper arm (2), ensure that they do not fold back onto the windshield uncontrolled. Otherwise the windshield is damaged.	
4	Measure angle of incidence of driver-side wiper blade (1) and front passenger side wiper blade (2) to windshield and record	Li See owner's manual.	AR82.30-P-6000-01T

		<ul> <li>When changing from reversing position to parked position, make sure that driver-side wiper arm (1) and passenger-side wiper arm (2) do not make direct contact with windshield.</li> <li>Otherwise the windshield may be scratched.</li> <li>Cover driver-side wiper arm (1) and passenger-side wiper arm (2) with appropriate means (scratch protection).</li> <li>Adjusting tool set</li> </ul>	*211589022100
5	Compare test values with adjustment values		
i	and select correct adjustment measure Notes on wiper arm adjustment		AH82.30-P-0001-01A
		MODEL 222	*BE82.30-P-1001-01M
		MODEL 222	*BE82.30-P-1002-01M
		MODEL 222	*BE82.30-P-1003-01M
		MODEL 222	*BE82.30-P-1004-01M
		MODEL 211, 215, 220, 230, 240	*BE82.30-P-1001-01E
		MODEL 211, 215, 220, 230, 240	*BE82.30-P-1002-01E
		MODEL 211, 215, 220, 230, 240	*BE82.30-P-1003-01E
		MODEL 211, 215, 220, 230, 240	*BE82.30-P-1004-01E
		MODEL 231	*BE82.30-P-1001-01L
		MODEL 231	*BE82.30-P-1002-01L
		MODEL 231 MODEL 231	*BE82.30-P-1003-01L *BE82.30-P-1004-01L
6	Adjust angle of incidence of driver-side wiper arm (1) or front passenger side wiper arm (2)	In the event that the test values deviate from the tolerance range in reversing position or in	BE02.30-F-1004-01E
	in park position	parked position and reversing position.	
		<b>i</b> Distort driver-side wiper arm (1) or front passenger side wiper arm (2) by at least the value of the tolerance deviation in reversing	AR82.30-P-6100-01T
		position.	
		MODEL 222	*BE82.30-P-1003-01M
		MODEL 222	*BE82.30-P-1004-01M
		MODEL 211, 215, 220, 230, 240	*BE82.30-P-1003-01E
		MODEL 211, 215, 220, 230, 240	*BE82.30-P-1004-01E
		MODEL 231 MODEL 231	*BE82.30-P-1003-01L *BE82.30-P-1004-01L
		Adjusting tool set	*211589022100
7	Adjusting wiper system	If the test values of the driver-side wiper arm	211000022100
,	Aujusting wiper system	(1) and front passenger side wiper arm (2) deviate from the tolerance range in park position.	
		MODEL 211 MODEL 215, 220	AR82.30-P-6400-01T AR82.30-P-6400-01M
		MODEL 215, 220 MODEL 222	AR82.30-P-6400-010W
		MODEL 230	AR82.30-P-6400-01R
		MODEL 240	AR82.30-P-6400-01H
		MODEL 222	*BE82.30-P-1003-01M
		MODEL 222	*BE82.30-P-1004-01M
		MODEL 211, 215, 220, 230, 240	*BE82.30-P-1003-01E
		MODEL 211, 215, 220, 230, 240	*BE82.30-P-1004-01E
		Nm	*BA82.30-P-1001-01P
		MODEL 222	
			*BA82.30-P-1005-01A
		MODEL 215, 220, 230	*BA82.30-P-1007-01A
		MODEL 211.0/2/6, 230, 240	
		S Mounting wedge	*110589035900
		S Extraction hook	*140589023300
			*211589022100
0	Cover driver eide winer erm (4) and	Adjusting tool set	211000022100
8	Cover driver-side wiper arm (1) and passenger-side wiper arm (2) using suitable aids and move wiper system out of park position	(b) When moving wiper system out of park position, make sure that driver-side wiper arm (1) and passenger-side wiper arm (2) do not make direct contact with windshield. Otherwise the windshield may be scratched.	

		i To do this, turn on ignition (circuit 15 or circuit 15R) and move wiper switch to position "Two". After the wiper system has left the park position, turn off ignition and move wiper switch back to position "Zero".	
9	Install wiper blades	<ul> <li>When working on raised driver-side wiper arm (1) or passenger side wiper arm (2), ensure that they do not fold back onto the windshield uncontrolled.</li> <li>Otherwise the windshield is damaged.</li> <li>See owner's manual.</li> </ul>	
10	Perform wiper system function check		

### Test and adjustment values of wiper arms

Number	Designation			MODEL 211.2	MODEL 211.0/6
	Angle of incidence of wiper arm on driver-side in reversing position	Left-hand drive vehicle	۲°	-0,53,5	-0,53,5
		Right-hand drive vehicle	4°	+0,5+3,5	+0,5+3,5

### Test and adjustment values of wiper arms

Number	Designation			MODEL 215	MODEL 220
	Angle of incidence of wiper arm on driver-side in reversing position	Left-hand drive vehicle	ď°	-1,06,0	-1,06,0
		Right-hand drive vehicle	۲°	+1,0+6,0	+1,0+6,0

### Test and adjustment values of wiper arms

Number	Designation			MODEL 230	MODEL 240
	Angle of incidence of wiper arm on driver-side in reversing position	Left-hand drive vehicle	۲°	-1,06,0	-1,04,0
		Right-hand drive vehicle	۲°	+1,0+6,0	+1,0+4,0

#### Wiper arm test and adjustment values

Number	Designation			MODEL 231
	Angle of incidence of wiper arm on driver-side in reversing position	Left-hand drive vehicle	۲°	-24
		Right-hand drive vehicle	ď°	+2+4

### Test and adjustment values for wiper arms

Number	Designation			MODEL 222
BE82.30-P-1001-01M	Angle of incidence of driver-side wiper arm in reversing position	Left-hand drive vehicle	۲°	-2,43,0
		Right-hand drive vehicle	۲°	+2,4+3,0

### Test and adjustment values of wiper arms

Number	Designation			MODEL 211.2	MODEL 211.0/6
BE82.30-P-1002-01E	Angle of incidence of passenger-side wiper arm in reversing position	Left-hand drive vehicle	4°	-0,53,5	-0,53,5
		Right-hand drive vehicle	4°	+0,5+3,5	+0,5+3,5

### Test and adjustment values of wiper arms

Number	Designation	MODEL 215	MODEL 220
© Doimlor AC 8/11/14 C/08/14	or 82.20 p. 6000t. Check winer arms and edjust		Dogo 2 of 6

BE82.30-P-1002-01E	Angle of incidence of passenger-side wiper arm in reversing position	Left-hand drive vehicle	۵°	-0,54,0	-0,54,0
		Right-hand drive vehicle	۲°	+0,5+4,0	+0,5+4,0

### Test and adjustment values of wiper arms

Number	Designation			MODEL 230	MODEL 240
	Angle of incidence of passenger-side wiper arm in reversing position	Left-hand drive vehicle	۲°	-0,54,0	0,03,0
		Right-hand drive vehicle	۲°	+0,5+4,0	+0,0+3,0

### Wiper arm test and adjustment values

Number	MODEL 231			
BE82.30-P-1002-01L	Angle of incidence of passenger-side wiper arm in reversing position	Left-hand drive vehicle	۲°	-13
		Right-hand drive vehicle	٤°	+1+3

### Test and adjustment values for wiper arms

Number	Designation			MODEL 222
BE82.30-P-1002-01M	Angle of incidence of passenger-side wiper arm in reversing position	Left-hand drive vehicle	4°	-4,04,2
		Right-hand drive vehicle	4°	+4,0+4,2

### Test and adjustment values of wiper arms

Number	Designation			MODEL 211.2	MODEL 211.0/6
	Angle of incidence of driver-side wiper arm in parked position	Left-hand drive vehicle	ď°	+2,5+6,5	+2,5+6,5
		Right-hand drive vehicle	ď°	-2,56,5	-2,56,5

### Test and adjustment values of wiper arms

Number	Designation			MODEL 215	MODEL 220
	Angle of incidence of driver-side wiper arm in parked position	Left-hand drive vehicle	ď°	+2,0+6,0	+2,0+6,0
		Right-hand drive vehicle	۲°	-2,06,0	-2,06,0

### Test and adjustment values of wiper arms

Number	Designation			MODEL 230	MODEL 240
	Angle of incidence of driver-side wiper arm in parked position	Left-hand drive vehicle	۵°	+2,0+6,0	+3,0+5,0
		Right-hand drive vehicle	۲°	-2,06,0	-3,05,0

### Wiper arm test and adjustment values

Number	MODEL 231			
BE82.30-P-1003-01L	Angle of incidence of driver-side wiper arm in parked position	Left-hand drive vehicle	ď°	+3+5
		Right-hand drive vehicle	४°	-35

Number	MODEL 222			
BE82.30-P-1003-01M	Angle of incidence of driver-side wiper arm in park position	Left-hand drive vehicle	۲°	+3,6+5,4
		Right-hand drive vehicle	۲°	-3,65,4

### Test and adjustment values of wiper arms

Number	Designation			MODEL 211.2	MODEL 211.0/6
BE82.30-P-1004-01E	Angle of incidence of passenger-side wiper arm in parked position	Left-hand drive vehicle	۲°	+2,5+6,5	+2,5+6,5
		Right-hand drive vehicle	ď°	-2,56,5	-2,56,5

### Test and adjustment values of wiper arms

Number	Designation			MODEL 215	MODEL 220
BE82.30-P-1004-01E	Angle of incidence of passenger-side wiper arm in parked position	Left-hand drive vehicle	۲°	+2,0+6,0	+2,0+6,0
		Right-hand drive vehicle	ď°	-2,06,0	-2,06,0

### Test and adjustment values of wiper arms

Number	Designation			MODEL 230	MODEL 240
	Angle of incidence of passenger-side wiper arm in parked position	Left-hand drive vehicle	۲°	+2,0+6,0	+3,0+5,0
		Right-hand drive vehicle	ď°	-2,06,0	-3,05,0

### Wiper arm test and adjustment values

Number	Designation			MODEL 231
BE82.30-P-1004-01L	Angle of incidence of passenger-side wiper arm in parked position	Left-hand drive vehicle	۲°	+3+5
		Right-hand drive vehicle	ď°	-35

### Test and adjustment values for wiper arms

Number	Designation			MODEL 222
BE82.30-P-1004-01M	Angle of incidence of passenger-side wiper arm in park position	Left-hand drive vehicle	४°	+3,4+5,6
		Right-hand drive vehicle	۲°	-3,45,6

## Nm Windshield wiper

Number	Designation			MODEL 222
BA82.30-P-1001-01P	Screw/bolt, wiper system to body	M8	Nm	11

## Nm Windshield wiper

Number	Designation		MODEL 215	MODEL 220
BA82.30-P-1005-01A	Nut, wiper system	Nm	20	20

### Nm Windshield wiper

Number	Designation	MODEL 230
BA82.30-P-1005-01A	Nut, wiper system Nm	10

## Nm Windshield wiper

Number	Designation	MODEL 211.0	MODEL 211.2
BA82.30-P-1007-01A	Nut/bolt, wiper system to partition wall Nm	11	11

Nm Windshield wiper

Number	Designation		MODEL 211.6	MODEL 230
BA82.30-P-1007-01A	Nut/bolt, wiper system to partition wall	Nm	11	10

# Nm Windshield wiper

Number	Designation		MODEL 240
BA82.30-P-1007-01A	Nut/bolt, wiper system to partition wall	١m	10

