BMW i8 REAR BRAKES

BRAKE DISCS

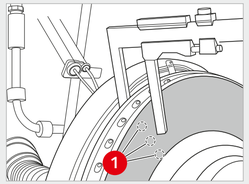
REMOVAL

- Remove rear wheels.
- Release screws (picture 11, n°1). Detach brake-caliper support.
- Installation note:
  - Release both screws on disc and remove the disc.

ASSEMBLY

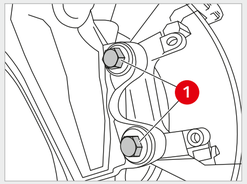
- Clean contact surface of brake disc at wheel hub and remove corrosion. Unevenness on contact surface may result in distortion of brake disc.
- Replace screws from anchor plate (Tightening torque 110 Nm)
- Replace both the disc and the screws that hold it (tightening torque 16 Nm).

10



THICKNESS DIFFERENCE

11



DETACH BRAKE-CALIPER SUPPORT

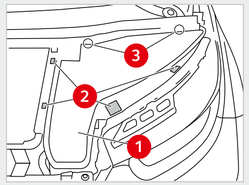
WARNING

- Replace brake discs when:
  - Drop below the minimum brake disc thickness
  - Scoring
  - Heat cracks
  - Thickness difference (Picture 10, n°1)
- Do not strike friction ring with a hammer or similar to release brake disc! If necessary, carefully tap on the base of brake disc chamber with a rubber mallet.
- After completing work: Carry out test braking while driving at low speed.
- Advise the customer to try to avoid drastic braking during the first 200 km after brake replacement.

HYDRAULIC CIRCUIT

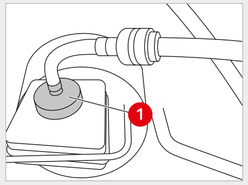
- System filling and bleeding
- Remove cover in the luggage compartment (picture 12)
- Connect bleeder unit with max. 2 bar filling pressure. A second person is needed for this repair work.
- Check relevant equipment manufacturer's operating instructions for each device.
- Charging pressure should not exceed 2 bar.
- Connect bleeder unit (picture 13, n°1) on expansion tank and switch it on.
- Connect diagnostic equipment to vehicle and select brake bleeding procedure.
- Connect vent hose with collecting vessel (picture 14) to vent valve on rear right brake caliper.
- Open vent valve and purge until clear, bubble-free brake fluid emerges.
- Close vent valve; (torque front brake 10Nm, rear brake 15Nm).
- When bleeding all wheels, start at the rear right. Follow same procedure on rear left, front right and front left wheel brake.
  - Switch off bleeder unit and remove from expansion tank.
- Check brake fluid level. If necessary, top up/draw off to "MAX" level.
- Close expansion tank.
- Pay attention to seal (picture 15, n°1) in sealing cap.

12



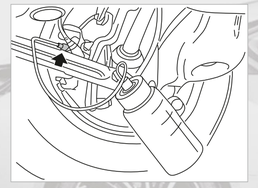
REMOVE COVER

13



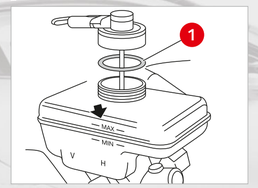
CONNECT BLEEDER UNIT

14



CONNECT VENT HOSE

15



PAY ATTENTION SEAL IN SEALING CAP

INSTALLATION GUIDE

BMW i8 REAR BRAKES

BRAKE FLUID

BRAKE FLUID	
Product	DOT 4, Low viscosity
Capacity	1.0 litre
Maintenance intervals	Every 2 years

BRAKE FLUID DOT4 LOW VISCOSITY	
FBX025	250 ml
FBX050	500 ml
FBX100	1 lt

FERODO PART NUMBERS, BRAKE PAD SET			
FDB4376 (set) **OE:** 34216788284 34216796741 **WVA:** 24561 24562 **Brake system:** TRW	**Brake pad**	**(mm)**	
	Length	106.1	
	Height 1	56.3	
	Height 2	63.3	
	Thickness	17.8	

SAFETY INFORMATION FOR HANDLING ELECTRIC/HYBRID VEHICLES:

WARNING

HIGH-VOLTAGE SYSTEM - DANGER TO LIFE

Each job on the vehicle must be assigned by properly trained personnel. Before work is started, this person must place the vehicle in the operating condition required to perform the relevant activity. The instructions and directions given by this person must be followed. No work may be carried out without this qualified person being consulted first.

▸▸

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BMW i8 REAR BRAKES

BRAKE PADS

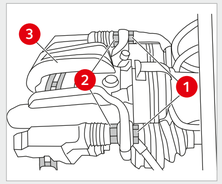
REMOVAL

- Position vehicle onto a lift.
- Release the handbrake.
- Remove the rear wheels.
- Remove brake pad wear sensor.
- Unscrew guide bolts (Picture 1, n°1).
- If necessary, grip at hexagon head (Picture 1, n°2).
- Remove brake caliper (Picture 1, n°3).
- Remove brake pads (Picture 2, n°1) in direction of arrow from caliper carrier.
- Check the thickness of the pads and of the disc.
- Use a brake caliper tool to wind back the brake piston up to the limit.

ASSEMBLY

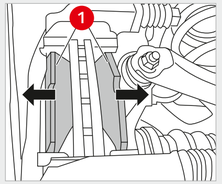
- When installing new pads, slightly bevel edges of the pad (Picture 3, n°1). (Dimension A must not exceed maximum 1 mm).
- Check dust boot for damage and renew if necessary.
- Clean contact surface (picture 4, n°1) of brake piston with brake cleaner and apply a thin coating of brake pad paste (Dust boot must not come into contact with brake pad paste as this may cause the dust boot to swell).
- Clean the following contact surfaces with brake cleaner and apply a thin coating of brake pad paste:
  - Contact surface of the caliper (picture 5, n°1)
  - guide surface for the brake pads (picture 6, n°1) on the brake caliper mounting.
  - both sides of T-head of brake pad (picture 7, n°1)
- Brake pad with bulge (picture 8, n°1) is intended for accommodating the brake pad wear sensor and must be fitted on the piston side.
- Remove lining springs (picture 9, n°1) and replace them.
- Replace guide bolts (torque 35 Nm).
- Install new brake pad sensor.
- Finally, switch on ignition and, using electrical parking brake operating element, open parking brake once, close once and open again.

1



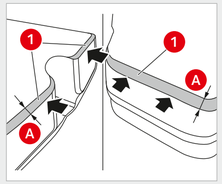
UNSCREW GUIDE BOLTS

2



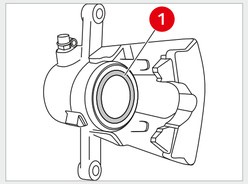
REMOVE BRAKE PADS

3



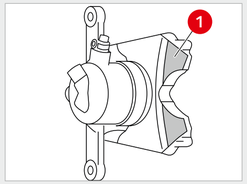
SLIGHTLY BEVEL EDGES OF THE PAD

4



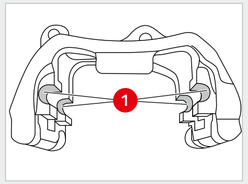
CLEAN CONTACT SURFACE

5



CLEAN THE CONTACT SURFACE AND APPLY BRAKE PAD PASTE

6

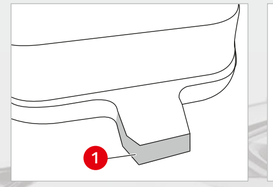


CLEAN THE GUIDE SURFACE AND APPLY BRAKE PAD PASTE

WARNING

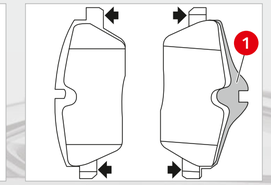
- When working on rear brakes, ensure that the push button for the electrical parking brake cannot be activated. To be completely sure that the handbrake cannot be activated, the service function 'workshop mode' must be run with diagnostic equipment. This opens the handbrake and disables it temporarily.
- Tie brake caliper and do not allow it to hang from brake hose.
- Retaining pins and expanding spring: for vehicles older than 48 months it is recommended to replace the retaining spring.
- The Brake pad wear sensor must be replaced after removal (it loses its retention capability).
- If the vehicle has a warning displayed for the brake pads, this can be reset with diagnostic equipment.
- When pressing piston back, note brake fluid level in expansion tank. Overflowing brake fluid will damage the paintwork.
- The brake discs must also be renevwed upon each brake pad exchange.
- When installing new brake pads, the brake fluid level must be brought up to max marking.
- Read and comply with notes on braking in new brake discs / brake pads; Carry out test braking while driving at low speed. Advise the customer to try to avoid drastic braking during the first 200 km after brake replacement.
- Switch on ignition and, using electrical parking brake operating element, apply parking brake once, release once and apply again.

7



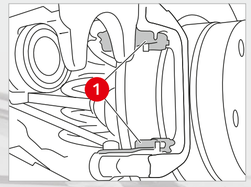
CLEAN BOTH SIDES OF T-HEAD AND PPLY BRAKE PAD PASTE

8



BRAKE PAD WITH BULGE FITTED ON THE PISTON SIDE

9



REPLACE LINING SPRINGS

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