Rider's Manual (US Model) R 1150 R

BMW Motorrad On-board documentation

consisting of Rider's Manual and Maintenance Instructions





This symbol indicates precautions and measures which are essential in pro-tecting the rider or other persons from severe or fatal injury.



ACAUTION

Specific instructions and safety precautions intended to prevent damage to the motorcycle. Disregarding them may render the warranty invalid.



Specific instructions on how to operate, control, adjust or look after items of equipment on the motorcycle.

Welcome to BMW

We congratulate you on your choice of a bike from BMW and welcome to the community of BMW riders.

Familiarise yourself with your new bike, so that you can ride it safely and confidently in all traffic situations.

To make sure of this, please read this Rider's Manual carefully before starting to use your new bike. It contains important information on how to operate the controls and how to make the best possible use of all the bike's technical features. In addition, it contains useful hints and information on the correct equipment for machine and rider, to ensure maximum reliability and safety, and advice on how to maintain the value of your bike.

If you have any questions concerning your bike, your BMW motorcycle retailer will gladly provide advice and assistance. We hope you enjoy reading this Rider's Manual and wish you many a pleasant, safe journey on your BMW bike.

Best wishes

BMW Motorrad

General information and controls

General view, left side
Cockpit6
Indicator and warning
lights7
Ignition switch
and steering lock8-9
Left handlebar fitting 10
Right handlebar fitting 11
Hazard warning flashers 12
Seat/helmet holder13
Dualseat14-15
System case16-18

Safety check

Checklist19
Engine oil 20-21
Fuel
Handlebar levers 24-25
Brake system - general 26-27
Brake system - without
BMW Integral ABS 28-30
Brake system - with
BMW Integral ABS 31-34
Clutch
Lights
Shock-absorber
adjustment 40
Suspension
spring preload 41
Wheels
Accessories and loads44-45

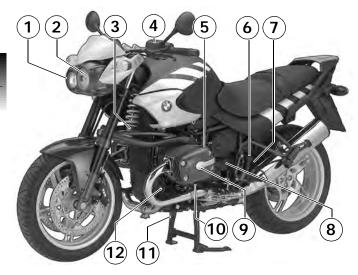
Starting – Riding – Parking

Your first journey 46-4	7
Important notes 48-4	9
Side stand 50-5	1
Center stand 52-5	3
Running in 54-5	5
Before you start 56-5	7
Starting 58-5	9
Indicator and	
warning lights 60-6	1
Riding, gear shifts 62-6	3
Brake system	
- general 64-6	5
Brake system - with	
BMW Integral ABS 66-7	2
BMW Integral ABS	
- Fault table7	3
	~

Arrive safely

Reliability74-75
Service worldwide76
Environmental protection 77
BMW rider's equipment78
BMW motorcycle
equipment79
Training means extra
safety 80
Concluding thoughts

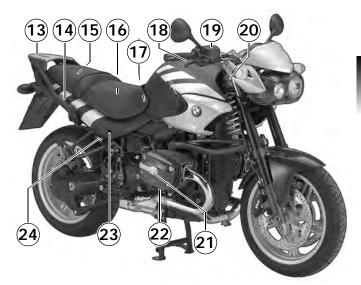
General view, left side



- High-beam headlight (
 → 36-39)
- 2 Driving light (m 36-39)
- Front suspension strut, shock absorber adjustment (m 40)
- 4 Reservoir for clutch fluid (m→ 35)
- 5 Engine oil filler (🗰 21)
- 6 Rear spring strut, spring preload (➡ 41)
- () Figure in parentheses
 - page number with explanation

- Rear suspension strut, shock absorber adjustment (m 40)
- Power socket, 12V
 Provision for connecting additional equipment – max. load 5 A
- 9 Primary spark plug, left
- 10 Secondary spark plug, left
- 11 Main stand^{OE} (m 52, 53)
- 12 Oil level sight glass, engine (₩ 21)

General view, right side

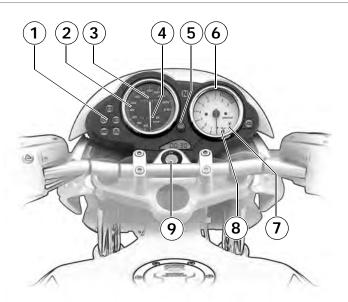


- **13** Luggage carrier^{OE}
- 14 Case carrier^{OE}
- 15 Storage compartment for toolkit
- 16 Fuse box (➡ Maintenance Instructions)
- 17 Air filter (
 → Maintenance Instructions)
- 18 Fuel filler cap (🗰 22)
- () Figure in parentheses
 - page number with explanation

- **19** Brake fluid reservoir for front brake (**■** 29, 33)
- 20 Type plate/vehicle identification number
- 21 Primary spark plug, right
- 22 Secondary spark plug, right
- 23 Brake fluid reservoir for rear brake (➡ 30, 34)
- 24 Helmet/seat lock (m 13)

Cockpit

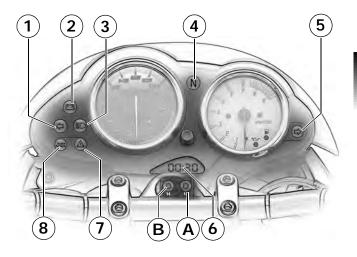




- Indicator and warning lights
 (₩ 7)
- 2 Speedometer
- 3 Odometer
- 4 Trip meter
- 5 Trip meter reset knob
- 6 Tachometer (🗰 56)

- 7 Warning light, fuel level/with approx. 1.3 gallons (5 liters) in reserve **yellow** (₩ 23, 60)
- 8 Warning light, engine oil pressure **red** [™] (₩ 60)
- 9 Ignition switch and steering lock (m − 8)
- () Figure in parentheses
 - page number with explanation

Indicator and warning lights



- 1 Indicator light, left turn indicator repeater green
- 2 Warning light, battery charge current red (
 → 61)
- 3 Indicator light, high (main) beam **blue**
- 4 Indicator light, neutral green N (₩ 57)
- 5 Indicator light, right turn indicator repeater green
 ▷

6 Clock

Adjust by pressing with a ballpoint pen or similar object at point **A** (minutes) or point **B** (hours)

- 7 Warning light, general red
 ▲ (m 61)
- 8 Indicator and warning lights, ABS ^[ABS]/brake failure^{OE} red (₩ 61)
- () Figure in parentheses
 - page number with explanation
- OE Optional equipment



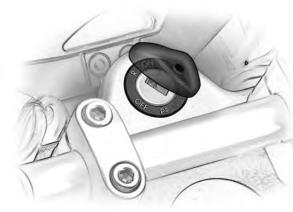
Vehicle keys

You will receive two master keys and one spare key. The key number is on the accompanying plastic tag.

- OA Optional accessories
- OE Optional equipment

The ignition switch and steering lock, fuel filler cap and the helmet/seat lock are all operated with the same key. System cases^{OA} with locks for the same key can be ordered on request.

If the motorcycle is fitted with BMW Integral ABS^{OE}, only RE-SIDUAL BRAKING FUNCTION-ALITY is available when the ignition is switched off (# 69)



Key positions

• Turn the handlebars to full left lock.

WARNING

Never turn the key to OFF or P[<] while riding the motorcycle!

- ON Operating position, ignition, lights and all electrical circuits switched on
- R * Ignition and lights off, steering lock disengaged (handlebars can be turned freely to left or right)
 - * The key can be removed in these positions

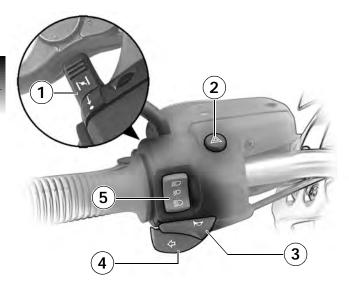
ACAUTION

Engage the steering lock with the handlebars in this position only.

- OFF* Ignition and lights off, steering locked
- P² * Parking light on, steering locked

Switch the parking light on only for limited periods. Note state of battery charge.

Left handlebar fitting



WARNING

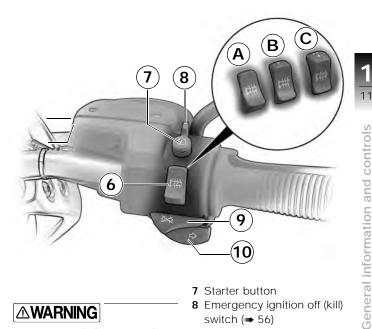
To prevent air from entering the clutch system:

- Do not turn the fitting on the handlebar.
- Do not turn the handlebars in the clamping blocks.

 - 2 Hazard warning flashers switch (➡ 12)

- 3 Horn button
- 4 Left turn indicator switch
 - Press
 - Turn indicators flash
 - To switch off:
 - Press turn indicator cancel switch 9
- 5 Headlight
 - 💭 High (main) beam
 - 🗊 Low (dipped) beam
 - Headlight flasher

Right handlebar fitting

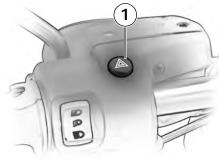


To prevent air from entering the brake system:

- · Do not turn the fitting on the handlebar.
- Do not turn the handlebars in the clamping blocks.
 - 6 Switch for heated handlebar grips^{OE}
 - Heating off А
 - 50% (center position) в
 - С 100%

- 7 Starter button
- 8 Emergency ignition off (kill) switch (m 56)
- 9 Turn-indicator cancel switch
 - Press
 - Left/right indicators off
- 10 Right turn indicator switch
 - Press
 - Turn indicators flash
 - To switch off:
 - Press turn indicator cancel switch 9
- OE Optional equipment

Hazard warning flashers



Hazard warning lights

You cannot activate the hazard warning flashers if the ignition is switched off.

Do not use the hazard warning flashers for longer than absolutely necessary.

Note state of battery charge.

Switching on the hazard warning lights:

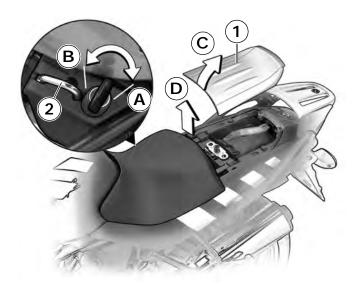
- Switching on the ignition
- Hazard warning switch lights up

- Actuate hazard warning lights switch 1
- Hazard warning lights in operation
- The left/right flashing turn indicator on the indicator light panel (m 7) flashes
- Switch off the ignition
- The hazard warning lights continue to operate
- The light in the hazard warning flasher switch goes out

Switching off the hazard warning lights:

- Actuate hazard warning lights switch 1
- Hazard warning lights switch off
- Left/Right flashing turn indicator on the indicator light panel
 (m 7) off

Seat/helmet holder



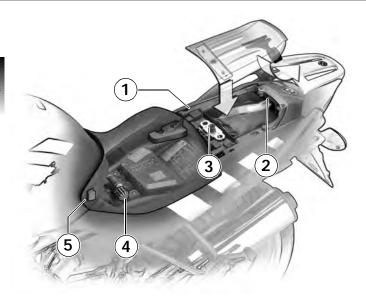
Helmet holder

- Turn key in helmet/seat lock to position B
- The helmet holder 2 is open
- Close the helmet holder by pressing it lightly into the helmet/seat lock until it engages

Removing cover of stowage box:

- Turn key in helmet/seat lock to position A
- Cover 1 is released from its holder

- Remove cover 1 in direction indicated by arrow C
- You now have access to the toolkit and the on-board documentation. You can also remove the front seat
- Lift off the front seat in the direction indicated by arrow D
- You now have access to the fuses (
 Maintenance Instructions, Section 2)

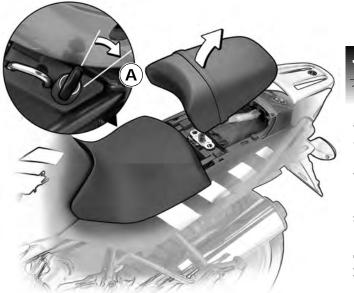


Locking cover of stowage box:

▲ CAUTION

When installing, make sure cover is firmly seated!

- Engage the front seat in catches **5** and **4** on left and right and push it into guide **1**
- Push cover to rear into lock 2 and engage seat holder 3 by pressing it lightly



Rear seat:

Turn the key in the seat lock to

position A

 Rear seat^{OE} is released from its

holder

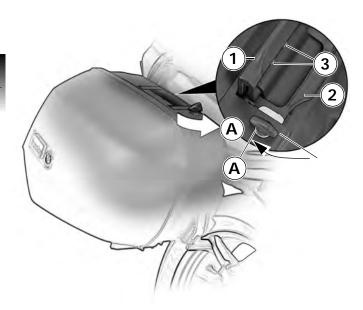
- Remove rear seat^{OE} in direction indicated by arrow
- Front seat can now be removed

Locking the rear seat OF

ACAUTION

When installing, make sure that storage-compartment cover is correctly secured.

 Push rear seat^{OE} to rear into lock and engage seat holder by pressing it lightly (arrow)



After an accident or if the motorcycle has fallen over, check that the System case is correctly secured.

Max. load per System case: 22 lbs (10 kg).

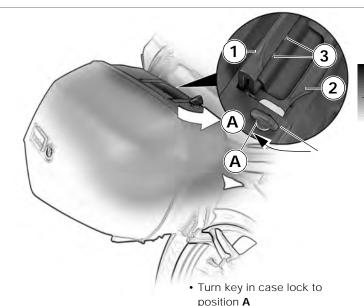
With System cases installed, it is advisable not to exceed 80 mph (130 km/h).

Opening the System case

- Turn key in case lock to position **A**.
- Pull up the carrying handle 1 and catch 2
- The two indicators 3 turn red
- Opening the System case

OA Optional accessories

System case^{OE}



- - Push down catch 2 and carrying handle 1
- The two indicators 3 turn black
- Lock the case and remove the key

Removing System case

- · Turn key in case lock to position A
- Pull up carrying handle 1
- The two indicators 3 turn red
- Remove the key and lift the System case off its holder

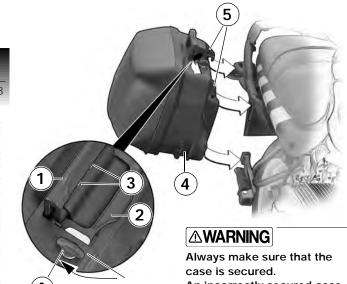
Closing System case

▲ CAUTION

Risk of breaking the locking tongue.

Before closing handle 1 or locking system 2, turn the key in the case lock to position A.

System case^{OE}



Installing System case

▲ CAUTION

Risk of breaking the locking tongue.

Before closing handle **1** or locking system **2**, turn the key in the case lock to position **A**. case is secured. An incorrectly secured case could be lost and endanger other road users.

- Insert the System case into the holder (arrows), making sure that it is firmly seated in the lower holder 4 and the upper hook 5
- Turn key in case lock to position A
- Push down the carrying handle 1
- The two indicators 3 turn black
- Lock the case and remove the key

Use the safety checklist - before every journey

Please perform the safety check accurately. If your motorcycle needs any routine maintenance, you can then attend to it before the journey starts

(
Maintenance Instructions), or, for example have it performed by your authorized BMW motorcycle retailer.

This is to ensure that your motorcycle corresponds with road-vehicle use and safety laws.

Your vehicle must be in perfect technical order: this is a basic prerequisite for your safety and the safety of other road users.

For this reason, check the details in the following sections before you start the journey:

- Engine oil level
- Fuel level
- Positions of the handlebarlever fittings
- Brake fluid level
- Clutch fluid level
- Brakes

- Warning lights and indicator lights
- Lights
- Shock-absorber setting and spring preload
- Condition of wheels and tires, tread depth and tire pressures
- Load, gross weight
- Check at regular intervals as described in the following sections (each time you stop for refuelling):
- Engine oil level
 (every second or third time you stop for refuelling):
- Brake pads

If you encounter any problems or difficulties, it is always best to contact your authorized BMW motorcycle retailer. He will provide the necessary advice and assistance

Checking oil level

Check oil level regularly each time you stop to refuel.

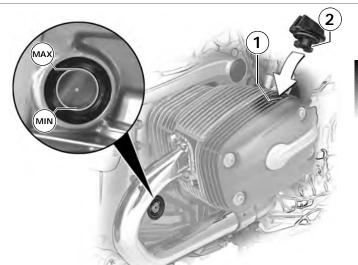
Only check the engine oil when the engine is at normal operating temperature as the oil level can vary by up to 0.39 in (10 mm) in a hot engine or a cold engine at extreme outside temperatures (14 °F / -10 °C). Wait at least five minutes after switching off the hot engine for the oil to collect in the sump. Checking the oil level after the engine has only been used for a short time or is only just warm could lead to wrong interpretations and thereby to an incorrect oil fill because the cold, more viscous oil takes longer to flow back into the sump. This can take up to 12 hours at extreme temperatures (14 °F / -10 °C).

▲ CAUTION

To avoid damage to the engine:

- Never exceed the maximum oil level.
- Always keep the oil level above the minimum mark.
 Always check the oil level with the motorcycle standing upright.
- Check the oil when the engine is at normal operating temperature
- Read the oil level at least five minutes after switching off the engine
- Make sure that the motorcycle is upright
 - ensure that the surface is level and firm.

Engine oil



Check the oil level at the sight glass:

MAX	Upper edge
	Ring marking

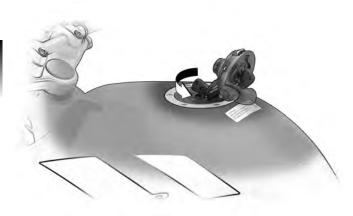
- MIN Lower edge Ring marking
- The difference between the two marks is
 - approx. 0.53 quart (0.5 liter)
- If necessary, unscrew the oil filler screw 2 top up the engine oil through the engine oil filler 1
- Then retighten the oil filler screw 2

▲ CAUTION

Warning light, engine oil pressure **red** (7) indicates no (or very little) oil pressure in the lube-oil system; this light must not be regarded as an oil level check. Oil pressure builds up after 1-2 seconds and the warning light goes out – the **red** engine oil pressure warning light should remain off while the engine is running.

BMW recommends Cast





Refuelling

Fuel is flammable and explosive. Do not smoke. Never bring a naked flame near the fuel tank.

Fuel expands when hot (for instance if the fuel tank is in the sun). For this reason, only fill as far as the lower edge of the filler neck.

ACAUTION

Leaded fuel will destroy the catalytic converter.

Do not run the fuel tank dry or you may damage the engine or the catalytic converter. Wipe off plastic parts immediately if they are wetted with fuel.

- Place motorcycle on side stand
- Make sure the ground is level and firm!
- Open fuel filler cap

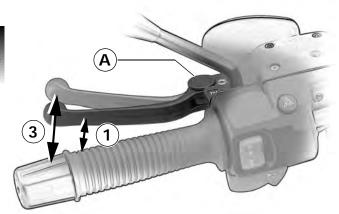


Capacity

The fuel gauge does not operate unless the ignition is switched on.

- Refuel
- Refuel only with super (premium) grade fuel to
 DIN 51607 standard or equivalent, minimum octane number 95 (RON) or 85 (MON),
 AKI 91 Premium
- · Close the fuel filler cap

- Usable tank capacity 5.4 gallons (20.4 liters)
- When the reserve fuel quantity is reached
 (approx. 1.3 gallons/5 liters),
 the orange warning light 1
 comes on



Adjusting clutch lever

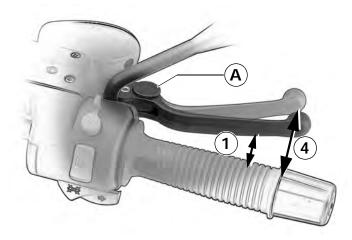
A CAUTION

Sudden changes in play or spongy action may indicate a fault in the hydraulic system. If you are doubtful about the reliability of the hydraulic clutch operating system, it is best to consult an authorized BMW motorcycle retailer.

To prevent air from entering the clutch system:

- Do not turn the fitting on the handlebar.
- Do not turn the handlebars in the clamping blocks.
- Turn knob **A** to set the most comfortable span:
- Setting 1: minimum distance
- Setting 3: maximum distance

Handlebar levers



Adjusting handbrake lever

To prevent air from entering the hydraulic circuit of the brake system:

- Do not turn the fitting on the handlebar.
- Do not turn the handlebars in the clamping blocks.
- Turn knob **A** to set the most comfortable span:
- Setting 1: minimum distance
- Setting 4: maximum distance

Work on the brake system

To ensure reliability have all work on the brake systems carried out by an authorized BMW motorcycle retailer. Checking the brake system

Sudden changes in play or spongy action of the brake lever indicate a possible problem in the brake system. Before riding off, therefore, always check the resistance of the front and rear brake levers and test operation of the brakes.

Do not ride the motorcycle if you have any doubts about the safety of the brake system.

Immediately seek the advice of an authorized BMW motor-cycle retailer.

Checking brake pads

Have the brake pads replaced before they wear to the minimum permissible thickness: have the work performed by an authorized BMW motorcycle retailer. Brake pad wear depends on your personal style of riding. To ensure reliable operation of the brakes: do not allow lining thickness to fall below minimum value (Maintenance Instructions Chapter 2).

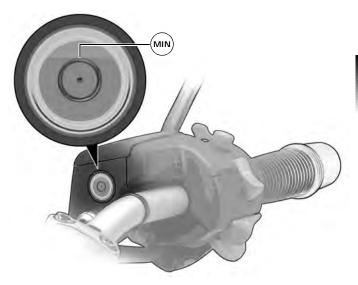
Checking brake fluid level

Gradual wear of the brake pads causes the brake fluid level in the reservoir to drop.

If brake fluid level in the fluid reservoirs for the front or rear brakes has dropped below the MIN mark (➡ 29, 30), have the brake system checked without delay by an authorized BMW motorcycle retailer. Changing brake fluid

Brake fluid is subject to severe thermal loads and absorbs moisture from the atmosphere. Consequently, the brake fluid must be changed regularly (Maintenance Instructions Section 1) by an authorized BMW motorcycle retailer.

Brake system - without BMW Integral ABS



Checking front brake fluid level

Never permit the brake fluid level to drop below the minimum level (MIN mark)

- Hold motorcycle upright or place on main stand^{OE}
 - Make sure the ground is level and firm

Turn the handlebar fully to the left

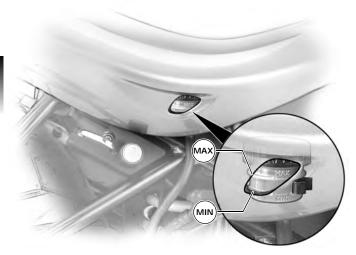
29

Safety check

- Check brake fluid level in sight glass
 - MIN Minimum level (top of marking ring)

Gradual wear of the brake pads causes the brake fluid level in the reservoir to drop.

Brake system - without BMW Integral ABS



Checking rear brake fluid level

Never permit the brake fluid level to drop below the MIN mark on the brake fluid reservoir

- Hold motorcycle upright or place on main stand^{OE}
 - Make sure the ground is level and firm
- Check the brake fluid level
 MAX Maximum level
 MIN Minimum level

Gradual wear of the brake pads causes the brake fluid level in the reservoir to drop. Brake system - with BMW Integral ABS^{OE}

Checking brake fluid level

On a motorcycle equipped with BMW Integral ABS, the brake fluid level in the reservoir does NOT drop as the brake pads wear (**••** 33, 34).

Have the brake system checked immediately by an authorized BMW motorcycle retailer, if the brake fluid level in the reservoir of the brake system drops below the MIN mark (# 33, 34). Changing brake fluid

Brake fluid is subject to severe thermal loads and absorbs moisture from the atmosphere. Consequently, the brake fluid must be changed regularly (Maintenance Instructions Chapter 1) by an authorized BMW motorcycle retailer.

Residual braking function

When the ignition is switched off, before and during self-diagnosis (>> 70), or if the BMW Integral ABS is inoperative, only a RESIDUAL BRAKING FUNCTION remains available for slowing the motorcycle (m 69). When the RESIDUAL BRAKING FUNCTION is active, you must apply CONSIDERABLY higher pressure to the brake lever in question in order to apply the brakes, and lever travel is longer.

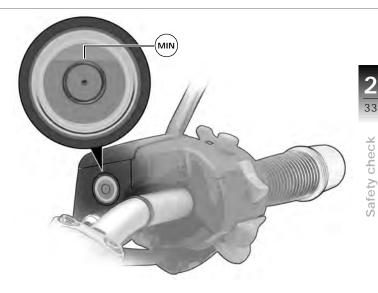
When the RESIDUAL BRAKING FUNCTION is active, the ABS function is unavailable in the brake systems in question.

When the RESIDUAL BRAKING FUNCTION is active, maintain a defensive riding style and proceed immediately to the nearest authorized BMW motorcycle retailer.

Ser NOTE

When the RESIDUAL BRAKING FUNCTION is active, it is advisable to set adjuster **A** (\implies 25) on the front-brake lever to position 4.

Brake system - with BMW Integral ABS^{OE}



Checking front brake fluid level

Never permit the brake fluid level to drop below the minimum level (MIN mark)

- Hold motorcycle upright or place on main stand^{OE}
 - Make sure the ground is level and firm

- Turn the handlebar fully to the left
- Check bake fluid level in sight glass
 - MIN Minimum level (top of marking ring)

The brake fluid level in the brake fluid reservoir remains constant despite wear of the brake pads.

Brake system - with BMW Integral ABS^{OE}



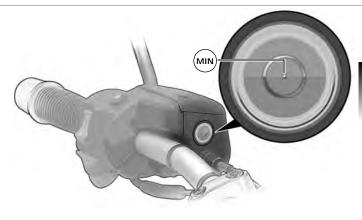
Checking rear brake fluid level

Never permit the brake fluid level to drop below the MIN mark on the brake fluid reservoir

- Hold motorcycle upright or place on main stand^{OE}
 - Make sure the ground is level and firm
- Check the brake fluid level
 MIN Minimum level

The brake fluid level in the brake fluid reservoir remains constant despite wear of the brake pads.

Clutch



Checking fluid level in the clutch fitting

▲ CAUTION

If the fluid level drops, assume that a fault may be present in the clutch system.

Have the clutch system checked immediately by an authorized BMW motorcycle retailer.

Never permit the fluid level to drop below the minimum level (MIN mark)

The fluid level in the reservoir rises as the clutch wears.

- Place motorcycle on side stand
 - Make sure the ground is level and firm
- Turn the handlebar fully to the right
- Check fluid level in sight glass
 MIN Minimum level (center of sight glass)

Checking lights

▲ CAUTION

Check that all lights are operational at the start of each journey.

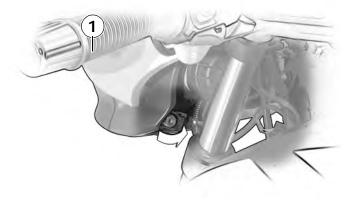
If turn indicator repeater flashes at twice the usual speed: inoperative flasher bulb. BMW Integral ABS^{OE}: General warning light ON (\clubsuit 7): Check brake light or tail light. If the tail light is inoperative, the brake light is dimmed and acts as a tail light. When you apply the brakes the brake light shines at full brightness. To change bulbs in parking lights, headlight (dipped and main beams), rear/brake lights, turn indicators and the number-plate light: (Im Maintenance Instructions, Chapter 2)

Headlight setting, RHD/ LHD traffic

For trips in countries where the traffic drives on the opposite side of the road: Adjust the headlight accordingly (Maintenance Instructions ➡ Chapter 2). When necessary, you can resort to the assistance of a certified workshop, preferably your authorized BMW motorcycle retailer.

OE Optional equipment

Lights



Adjusting beam throw

When the basic setting is correct, headlight beam throw is regulated when spring preload is adjusted to suit load.

Have the headlight basic setting adjusted by an authorized BMW motorcycle retailer.

Adjust beam height so that oncoming traffic is not dazzled. Make sure that the throw of the light cone adequately illuminates the road ahead of you.

Adjusting to suit load

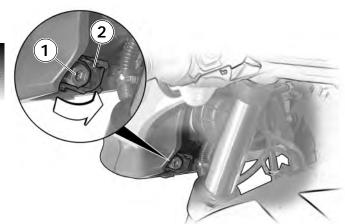
- Change the spring strut setting to suit the load (➡ 41)
- Spring preload has an effect on headlight throw

Only if the load carried on the motorcycle is very high, the headlight beam can also be lowered by moving pivot lever **1**. This shortens the beam throw.

Pivot lever 1:

- A = neutral position
- \mathbf{B} = high load

Lights





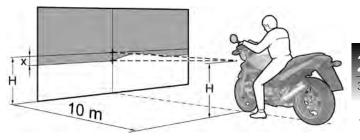
Use adjusting screw **1** only for adjusting the basic setting of the headlight.

Headlight basic setting

Do not prop the motorcycle on the center or side stand.

- Check tire pressures and correct if necessary
- Set the spring-strut adjuster to the position for one-up riding
- Make sure lever 2 is horizontal (neutral position)
- Position the motorcycle on a level surface 33 feet (10 meters) (headlight) from a light-colored wall, and with the rider's weight (approx. 187 lbs/85 kg) on the seat

Lights

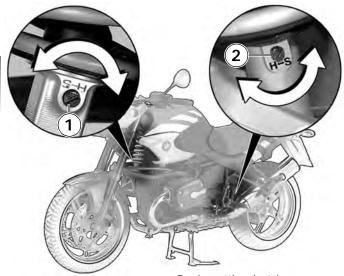


- Measure the distance H from the ground to the center of the headlight
- Transfer this height **H** to the wall and draw a cross on the wall at this point
- Draw a second cross (x = 5.9 in/15 cm) lower
- Switch on the low-beam headlight
- Turn adjusting screw 1 to align the headlight in such a way that the light-dark cutoff starts in the middle of the bottom cross and rises to the right to the height of the upper cross, before dropping again.

- Adjusting screw 1:
 - Turn screw counterclockwise: higher
 - Turn screw clockwise: lower

Have the headlight basic setting checked by a certified workshop, preferably an authorized BMW motorcycle retailer.

Shock-absorber adjustment



40

Safety check

Before the journey starts, adjust the front shock absorber to suit road surface conditions and intended riding style. Adjust the rear shock absorber to suit the gross weight and load on the motorcycle.

- Place the motorcycle on the side stand or center stand^{OE}
- Adjust the front/rear shock absorbers with a screwdriver

Basic setting (solo):

- Turn adjusting screw 1 or 2 in direction indicated by arrow H (clockwise) as far as it will go
- Turn adjusting screw 1 or 2 two turns in the direction indicated by arrow S (counterclockwise)

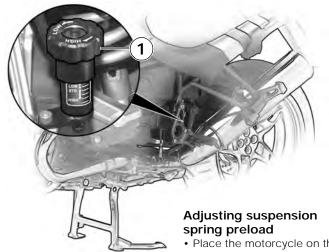
Hard setting "H":

 Fully tighten adjusting screw 1 or 2

Soft setting "S":

- Fully back off adjusting screw 1 or 2
 - OE Optional equipment

Suspension spring preload



Before the journey starts, adjust spring preload according to the gross weight. For safety reasons, never attempt to alter spring preload while the motorcycle is being ridden. Always stop the motorcycle before adjusting.If spring preload is changed, the shock absorber has to be adjusted accordingly. Place the motorcycle on the side stand or center stand^{OE} Safety check

 Adjust spring preload at handwheel 1

Basic setting, solo:

- Turn knob 1 as far as it will go counter-clockwise as indicated by the "LOW" arrow
- Turn knob 1 one mark to the right in the direction indicated by the **"HIGH**" arrow.

Setting for two-up and luggage:

• Turn handwheel **1** fully to the right as indicated by the **"HIGH"** arrow

Checking wheel rims

Have damaged wheel rims checked and, if necessary, replaced by an authorized BMW motorcycle retailer.

Checking tire treads

Comply with statutory legal requirements concerning minimum tread depth. Worn tires can impair handling.

Measure tread depth at the center of the tire tread

BMW's minimum tread depth recommendation:

Front 0.08 in (2 mm) Rear 0.12 in (3 mm) Screwing valve caps on tightly

At high road speeds, tire valves have a tendency to open as a result of centrifugal force. Use only metal valve caps with rubber seals. Valve caps that are screwed on well prevent air from escaping suddenly.

- Tires cold:

- Remove valve caps
- Check/correct tire pressure

Checking tire pressures

Incorrect tire pressures have a considerable influence on handling and on tire life. Adjust tire pressures to suit total weight. Never exceed either the motorcycle's gross weight or the individual wheel load limits (# 45).

Tire pressures:

	Front	Rear
Solo	(2.2 bar)	(2.5 bar)
	32.0 psi	36.3 psi
Two-up	(2.5 bar)	(2.7 bar)
	36.3 psi	39.2 psi
Passenger		
with luggage(2.5 bar) (2.9 bar)		
	36.3 psi	42.0 psi
 Screwing on valve caps 		

Accessories and loads

BMW cannot examine or test each product of outside origin on the accessories and tyres market to ensure that it can be used on or in connection with BMW motorcycles without constituting a safety hazard. Even approval by a technical inspectorate or an official permit (General Operating Permit) cannot always provide this guarantee. Tests conducted by these instances cannot make provision for all operating conditions experienced by BMW motorcycles and consequently, they are not sufficient in some circumstances.

BMW accessories and other products approved by BMW can be obtained from your BMW motorcycle retailer.

Correct loading

WARNING

Overloading can impair the handling of your motorcycle.

- Make sure that the weight is uniformly distributed between right and left
- Pack heavy items at the bottom

Accessories and loads



- Max. load in each case* (left and right): 22 lbs (10 kg)
- Max. load on luggage carrier and in tank-top backpack^{OA} approx. 11 lbs (5 kg) each
- Check that fastenings are correctly positioned and tight

With cases installed, it is advisable not to exceed 80 mph (130 km/h).

A CAUTION

Do not exceed the gross weight limit of 992 lbs (450 kg). Do not exceed the wheel load limits of 397 lbs (180 kg) at the front and 660 lbs (300 kg) at the rear.

Reset the suspension spring preload and the shock absorbers to match the total weight (+ 40, 41, 43).

The total weight consists of:

- Motorcycle with full tank
- Rider
- Passenger
- Luggage

Handling your motorcycle safely

Each motorcycle has a character all its own. It is time now for you to familiarise yourself with the way your own motorcycle behaves:

- acceleration
- roadholding
- cornering
- braking ...

These are all things you need to become familiar with.

ACAUTION

BMW Integral ABS^{OE} incorporates a brake booster, so braking efficiency is significantly higher than with conventional brake systems.

The tires need to cover a certain distance before they acquire their full road grip (= 55).

When riding at high speed, always bear in mind that various boundary conditions such as: settings of the spring and shock-absorber system, unbalanced loading, loose clothing, low tire pressures, worn tires, etc.,

can affect the handling of your motorcycle.

OE Optional equipment

Safe motorcycling does not depend on the motorcycle alone.

Your own skill and commonsense are needed too.

The key to genuine safety on the road is a sensible balance between the motorcycle's technical features and the rider's skill, so that together they form a single efficient unit.

Riding safely in traffic calls for a sense of responsibility to your rear passenger and to other road users.

Do not ride the motorcycle after drinking alcoholic beverages. Even small amounts of alcohol or drugs, particularly if taken in conjunction with medicines, will adversely affect your perception and your ability to assess situations and make decisions, and also slow down your reflexes.

Take to the road now by all means, but think carefully about everything you do.

BMW Integral ABSOE

motorcycle equipped with BMW Integral ABS^{OE} (m 66)

When the ignition is switched off or if the BMW Integral ABS fails, only a "RESIDUAL BRAKING FUNCTION" is available (# 69). Under these circumstances you must apply CONSIDER-ABLY higher pressure to the brake levers in order to apply the brakes, and lever travel is longer.

Risk of fire

High temperatures occur at the exhaust system, particularly if a catalytic converter is installed.

Make sure that whether riding or standing still or when the motorcycle is parked, no easily flammable material (for example hay, grass, leaves, clothing or luggage etc.) can come into contact with the hot exhaust system.

CALIFORNIA PROPOSITION 65 WARNING

Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Battery posts, terminals, and related accessories contain lead and lead compounds. Wash hands after handling.

Risk of poisoning

Exhaust fumes contain carbon monoxide, which is colorless and odorless but highly toxic.

Inhaling the exhaust fumes therefore represents a health hazard and can even cause loss of consciousness with fatal consequences. Do not run the engine in an enclosed space.

Risk of fatal accident

Your motorcycle is equipped with Digital Motor Electronics (Motronic) and an increasedoutput ignition system.

When the engine is running or the ignition switched on, never touch electrically live parts of the ignition system or the digital motor electronics.

Catalytic converter

ACAUTION

To avoid damage to the catalytic converter:

- Do not run the fuel tank dry
- Push-start only when the engine is cold
- Do not run the engine with a spark plug lead detached
- Do not exceed the enginespeed limits marked on the tachometer
- Comply with all specified maintenance intervals
- Stop the engine at once if it misfires
- In the event of misfiring or a severe drop in engine power, immediately consult an authorized BMW motorcycle retailer.

If misfiring or malfunction of the fuel-air mixture preparation system cause unburned fuel to reach the catalytic converter, there is a risk of it overheating and being damaged.



Placing motorcycle on side stand

WARNING

For safety reasons, never sit on the motorcycle with the side stand extended.

A CAUTION

Stop the engine before using the side stand.

Make sure the surface under the stand is firm.

On a gradient, the motorcycle should always face uphill; select 1st gear.

- Switch off the ignition
- Keep both feet on the ground
- Hold the left handlebar grip with your left hand
- Keep your right hand on the right handlebar grip and the handbrake lever
- Hold the motorcycle upright and balanced
- Use your left foot at the extension pin to extend the side stand fully (arrow)
- Slowly lean the motorcycle to the side until its weight is taken by the stand and dismount from the motorcycle
- Turn the handlebars to full left lock (m 9)
- Check that the motorcycle is firmly supported

51

Starting - Riding - Parking



Lifting motorcycle off the side stand

When the ignition of a motorcycle fitted with BMW Integral ABS^{OE} is switched off, only a "RESIDUAL BRAKING FUNC-TION" is available (# 69). The side stand must be fully retracted before you ride off.

 Riding with the side stand extended is a safety risk.

- Turn the ignition key to the "R" or "ON" position (#9)
 Handlebars unlocked
- Both feet on the ground, no weight on the motorcycle
- Hold the left handlebar grip with your left hand
- Keep your right hand on the right handlebar grip and the handbrake lever
- Slowly raise the motorcycle to the upright position and keep it balanced
- Sit on the motorcycle and use your left foot to retract the side stand

Center stand^{OE}



Place motorcycle on center stand

For safety reasons, never sit on the motorcycle with the center stand extended.

▲ CAUTION

Switch off the engine before using the center stand. Make sure the surface under the stand is firm.

- · Switch off the ignition
- Hold the left handlebar grip with your left hand
- Hold the lifting handle with the right hand
- Place your right foot on the pin used to extend the center stand, and press the stand down until its curved feet touch the ground
- Place your right foot on the tread surface of the stand
- Apply all your body weight to the stand
- Pull the motorcycle to the rear and upwards (arrow) until it rests on the center stand
- Check that the motorcycle is firmly supported

Center stand^{OE}

53

Starting – Riding – Parking



Removing motorcycle from center stand

- Riding with the center stand extended is a safety risk

- Ignition key in "R" or "ON" position (m 9)
 - Steering column lock unlocked
- Hold the left handlebar grip with your left hand
- Place your right hand on the frame
- Push the motorcycle forwards off the stand
- Check that the stand has fully retracted
 - OF Optional equipment

▲ CAUTION

Exceeding the specified engine speeds while running in will lead to increased engine wear.

N

While running in the motorcycle, vary the throttle opening and engine-speed range frequently.

Try to do most of your riding during this initial period on twisting, fairly hilly roads rather than high-speed main roads and highways.

Running-in engine speeds From 0 to 600 miles (1,000 km)

- Engine speed max. 4,000 rpm and no full-load acceleration
- Do not omit the first inspection after 600 miles (1,000 km).

Make an appointment with your authorized BMW motorcycle retailer in good time, so that the work can be performed punctually.

From 600 miles to 1,200 miles (1,000 km to 2,000 km)

- Engine speeds can be gradually increased after 600 miles (1,000 km)
- Avoid lengthy periods at full load until 1,200 miles
 (2,000 km) have been covered

Running in new tires

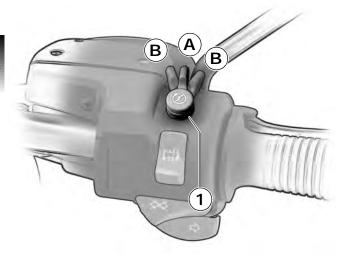
New tires have a smooth surface. This must be roughened by riding in a restrained manner at various heel angles until the tires are run in. This running in procedure is essential if the tires are to achieve maximum grip. Running in new brake pads

New brake pads must "bed down" and therefore do not achieve their optimum friction levels during the first 300 miles (500 km). This slight initial reduction in braking efficiency can be compensated for by exerting greater pressure on the lever. Try to avoid all unnecessary hard braking during this initial period.

A CAUTION

Comply with the notes on BMW Integral ABS^{OE} (m 66-73).

OF Optional equipment



Switching on the ignition

- Move the kill switch to the run position A
- Turn ignition key to ON

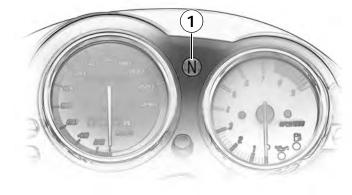
In an emergency only:

- Move switch **1** to the **B** position.
- The Motronic, fuel pump and starter motor electrical circuits are out of action



If you move the kill switch to the **B** position while the ignition is on (switch in **ON** position), the BMW Integral ABS^{OE} remains operational (\Rightarrow 66-73).

OE Optional equipment



Fully retract the side stand



If the side stand is extended and a gear engaged, you cannot start the motorcycle.

Select neutral

 Neutral indicator light 1 comes on green N (→ 7).



Engine does not start:

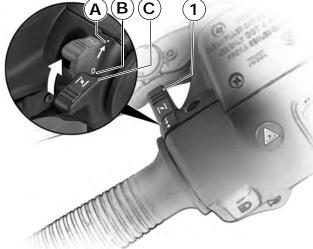
Move the gear lever to the
 position or disengage the clutch

Engine stops when first gear is engaged:

 Fully retract the side stand; if necessary, consult the troubleshooting table (Imp Service and Technical Booklet, Section 2)

Starting





Starting

▲ CAUTION

If you attempt to start the engine when the battery is flat, you will hear the relay chattering. Further attempts will damage the starter relay and starter motor.

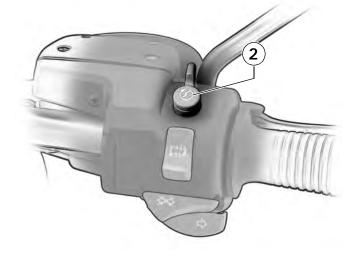
Before trying again: Recharge the battery.

Do not warm up the engine with the motorcycle at a standstill – risk of overheating or fire!

Ride away immediately after starting the engine.

To avoid overheating the aircooled engine and possible damage as a result, avoid even short warm-up periods at a standstill. Avoid high engine speeds after a cold start.

Starting



Starting - Riding - Parking

59

Do not turn the throttle twistgrip when starting the engine.

- Choke
- Correct position of choke lever 1:
 - Lever up, in position A: cold start
 - Lever down, in position C: engine at operating temperature
- When starting, pull lever **1** to position **A** (arrow) and hold it in this position

- Press starter pushbutton 2
 The engine starts
- Turn the throttle twistgrip carefully
- Release lever 1
 Lever 1 in position B
- Return choke lever 1 to position C as soon as possible (as soon as the engine runs smoothly)



Fuel level

When the warning light 1 comes on, there are still approx. 1.3 gallons (5 liters) of fuel in the tank.

Engine oil pressure

Warning light 2 goes out above idle speed.

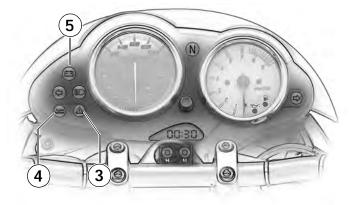
▲ CAUTION

If warning light 2 comes on during the journey, take the following action as soon as traffic conditions permit:

- Declutch
- Press the kill switch
- · Bring the motorcycle safely to a halt
- Check engine oil level (20)

If the warning light comes on even though the oil level is correct, you must consult a certified workshop, preferably an authorized BMW motorcycle retailer.

Indicator and warning lights



Warning light, general

General warning light **3** lights up if the BMW Integral ABS^{OE} develops a fault (***** 73), or if the tail light or brake light is inoperative.

ABS warning light OE

The ABS warning light **4** lights up if the BMW Integral ABS develops a fault (**••** 73)

Battery charge current

Warning light **5** goes out above idle speed.

61

Starting – Riding – Parking

ACAUTION

If warning light **5** comes on during the journey: Immediately consult an authorized BMW motorcycle retailer.

OE Optional equipment



Engine speed

Limit engine speed in accordance with engine temperature, using the highest engine speeds only when the engine has reached its regular operating temperature. When the tachometer needle enters the red zone on the dial, the fuel supply is interrupted in order to protect the engine against overspeeding.



The governor cuts in at 7,900 rpm.

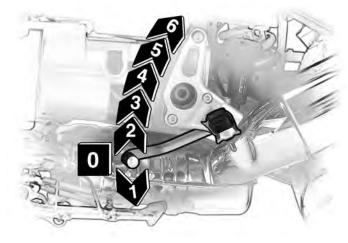
Load changes

Try not to open or close the throttle abruptly, particularly on wet or slippery roads.

Gear shifts

Never slip the clutch excessively when changing gear. Vary your speed only by using the throttle in a suitable gear, not by slipping the clutch.

Riding, gear shifts



Moving off and upshifts:

- Pull the clutch lever in
- Press down on the gearshift lever (to select first gear) and take your foot off the lever
- Smoothly re-engage the clutch
- Increase engine speed slightly as necessary
- Accelerate when the clutch is fully engaged
- Upshift into 2nd, 3rd, 4th, 5th and 6th gears, in the same way, but lifting the gear lever

Downshifts:

- Close the throttle (twistgrip)
- Pull the clutch lever in
- Select the next-lower gear: opposite direction to arrow
- Smoothly re-engage the clutch

Wet brakes

After the motorcycle has been washed, ridden through water or ridden in the rain, the brake disks and pads may be wet (or iced-over in winter), and may not take effect immediately.

Warning:

The brakes have to dry before they start to bite.

Salt on brakes

The full breaking effect can be delayed if the motorcycle is ridden on salt-covered roads and the brakes are not applied for some time.

Warning:

The layer of salt on the brake disks and pads must first be worn away.

Oil and grease on brakes

WARNING

Warning: Brake disks and pads must be free from oil or grease.

Dirt or mud on brakes

When riding on loose surfaces or muddy roads, the brakes may fail to take effect immediately because of dirt or moisture on the disks or brake pads.

Warning:

The brakes must first be applied until the disks and pads are clean. Dirt on the brakes increases the rate of pad wear.

Warning: If the brake lever can be moved right to the limit of its travel without producing braking action (i.e. without resistance), a mechanical or hydraulic fault may exist. Immediately consult an authorized BMW motorcycle retailer.

Sensitive electronic control

It takes skill and sensitive control of the brakes to pull up safely on a motorcycle. If the front wheel brake locks and the wheel skids, the necessary longitudinal and lateral stabilizing forces are lost, and a fall can result.

For this reason, the rider seldom makes full use of available braking performance in an emergency.

BMW Integral ABS is the latestgeneration BMW ABS development: by preventing both wheels from locking and optimising braking-force distribution by means of the integral function it offers much improved braking performance (m 68). Full use is made of technical braking capacity to minimize braking distances, even when road conditions are poor. When the motorcycle is ridden in a straight line, the BMW Integral ABS is able to handle emergency braking safely.

Safety margin

But remember: the potentially shorter braking distances which BMW Integral ABS permits must not be used as an excuse for careless riding. ABS is primarily a means of ensuring a safety margin in genuine emergencies.

- You have to familiarise yourself with the new, electronically assisted braking. Try the brakes several times when you take your motorcycle out for the first time. Find out for yourself how the brakes feel
- Never ride without due care and attention, or assume that good fortune will protect you from your own foolhardiness
- Keep within the permitted speed limits
- Take care when cornering.
 When you apply the brakes on a corner, the motorcycle's weight and momentum take over and even BMW Integral ABS^{OE} is unable to counteract their effects.

Partially integral brakes

The integral brake function interlinks the front and rear brakes, so both wheels are braked when you operate the brake lever.

The electronic controller in the BMW Integral ABS^{OE} computes the braking-force distribution between front and rear wheels, and applies the brakes accordingly.

The baking-force distribution depends on load and is recalculated every time the ABS controller comes into action. In this partially integral brake configuration, the integral braking function is activated only when you pull the handbrake lever. The footbrake lever acts only on the rear brake.

Brake servo

The hydraulic pump in the BMW Integral ABS^{OE} actively boosts the braking force acting on the wheel when the brakes are applied.

By boosting the braking force in this way, the BMW Integral ABS^{OE} achieves a higher braking efficiency than standard brake systems.

ABS - anti-lock brake system^{OE}

ABS prevents the wheels locking under heavy braking when the motorcycle is travelling in a straight line, thus contributing significantly to road safety.

OE Optional equipment

RESIDUAL BRAKING FUNCTION

If the BMW Integral ABS^{OE} develops a fault, a RESIDUAL BRAKING FUNCTION only is available in the brake circuits in question. The RESIDUAL BRAKING FUNCTION is the braking efficiency without the hydraulic servo assistance of the BMW Integral ABS^{OE}. Under these circumstances, therefore, you must apply

CONSIDERABLY higher pressure to the brake levers in question in order to apply the brakes, and lever travel is longer.

When the RESIDUAL BRAKING FUNCTION is active, the ABS function is unavailable in the brake system in question.

When the RESIDUAL BRAKING FUNCTION is active, the integral braking function is partially or entirely unavailable.

When the RESIDUAL BRAKING FUNCTION is active, maintain a defensive riding style and proceed immediately to the nearest authorized BMW motorcycle retailer.

When the RESIDUAL BRAKING FUNCTION is active, it is advisable to set adjuster $A \iff 25$ on the frontbrake lever to position 4.

The RESIDUAL BRAKING FUNCTION is active under the following circumstances:

- Ignition off
- Before and during self-diagnosis
 (m 70)
- Fault in the BMW Integral ABS^{OE} (m 73)

When the RESIDUAL BRAKING FUNCTION is active for both brake circuits, the noise of the pump is no longer audible when you operate the brake levers.



Self-diagnosis with pull-away test

The BMW Integral ABS performs self-diagnosis and a pullaway test to ensure its operability.

Self-diagnosis is performed automatically when you switch on the ignition.

Self-diagnosis is not performed unless both brake levers are in their fully released positions.

Only the RESIDUAL BRAKE FUNCTION is available until self-diagnosis is completed (•• 69).

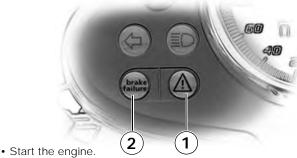
- Release the brake levers, if necessary
- Switch on the ignition Initially:
- ABS warning light 2: flashes at 4 Hz (➡ 56)
- General warning light 1:
 ON
- Self-diagnosis is in progress

Then:

- ABS warning light 2: flashes at 1 Hz
- General warning light 1:
 OFF
- Self-diagnosis successfully completed

OE Optional equipment

Brake system - with BMW Integral ABS^{OE}



- Move off
- ABS warning light 2:
 OFF (as of approx. 3 mph (5 km/h) road speed)
- Pull-away test successfully completed
- BMW Integral ABS is available

Starting on gradients:

Always switch on the ignition with gear engaged, clutch lever released and both brake levers released.

Self-diagnosis cannot be performed if you do not follow this procedure.

When self-diagnosis completes, apply the brakes, disengage the clutch, and start the engine.

Flashing at 1 Hz = 1 flash per second (slow flashing) Flashing at 4 Hz = 4 flashes per second (fast flashing)

OE Optional equipment



If the BMW Integral ABS establishes a fault in both brake circuits, a RESIDUAL BRAKING FUNCTION only is available (# 69).

WARNING

If the RESIDUAL BRAKING FUNCTION is active (=+ 69), maintain a defensive riding style and immediately consult an authorized BMW motorcycle retailer.

If there is a fault in the ABS system, the reserves of safety normally afforded by ABS are not available until the fault has been accurately identified and addressed. There is a risk of dropping the machine if the brakes are applied too hard and the front wheel locks or the rear wheel lifts clear of the ground as a result of a high level of front tire adhesion. Do not ride the motorcycle if you have any doubts about the safety of the brake system.

General war- ning light ∆	ABS warning light/ brake failure	Malfunctions
OFF	ON	Only RESIDUAL BRAKING FUNCTION available in both circuits (m 69)
OFF	Flashes at 1 Hz	ABS not available Pull-away test not completed (🗰 70)
OFF	Flashes at 4 Hz	Only RESIDUAL BRAKING FUNCTION available in both circuits (# 69) Self-diagnosis not completed (# 70)
ON	OFF	Tail light/brake light inoperative (Mainte- nance Instructions IIII) Chapter 2)
ON	Flashes at 1 Hz	At least one brake circuit without ABS (🗰 68)
ON	Flashes at 4 Hz	At least one brake circuit in RESIDUAL BRAKING FUNCTION mode (I 69)
Alternate flashing at 1 Hz	Alternate flash- ing at 1 Hz	 Fluid level in BMW Integral ABS too low. Check the motorcycle as follows: Ignition OFF: is brake pressure OK at the brake levers? Are the brakes acting on both wheels? Is the brake system free from leaks, no signs of brake fluid escaping? If the test outcome is negative it will be necessary to diagnose the brake system and address any faults as necessary.
Alternate flas- hing at 4 Hz	Alternate flas- hing at 4 Hz	Fluid level in the BMW Integral ABS is too low, perform the checks listed above. Only RESIDUAL BRAKING FUNCTION available in at least one circuit WARNING Do not ride the motorcycle if you have any doubts about the depend- ability of the brake system.

Know-how...

Technical design features available to motorcycles have become more and more sophisticated in recent years. Motronic, electronic ignition, the catalytic converter, or the use of four valves per cylinder are clear signs that far more than basic technical knowledge may be needed to solve certain problems. In addition, hightech materials are increasingly taking the place of conventional materials, once again calling for thorough and expert knowledge if they are to be handled correctly during repair work.

To be sure of keeping pace with the new standards, take the motorcycle to an authorized BMW motorcycle retailer. The authorized BMW motorcycle retailer employs personnel who attend regular and comprehensive training courses.

Your authorized BMW motorcycle retailer also receives all the current technical information and is therefore always upto-date with the latest developments.

...technical features...

The authorized BMW motorcycle retailer's staff has the experience and all the necessary facts at its disposal when it comes to solving problems quickly and effectively. The workshops are equipped with leading edge technology, e.g. with special tools and diagnosis testers developed by **BMW** diagnosis system



otherwise be noticed until it is too late to put them right at moderate cost

The staff in the authorized BMW motorcycle retailer or workshop know every detail of your motorcycle and can take remedial action if necessary before minor faults develop into serious problems. By having the necessary repairs done properly and in good time, you save time and money in the long run.

Regular visits to the workshop for routine servicing are strongly recommended even after the warranty period has elapsed. They are the only way to be genuinely certain that your BMW is being kept in perfect working order.

For goodwill work after the warranty period has expired, evidence of regular maintenance by an authorized BMW motorcycle retailer is essential.

...service

You can obtain accurate advice in all cases, and make appointments with a firm completion deadline which we will comply with punctually. But the most gratifying feeling of all is that your BMW is in genuinely good shape when it leaves the authorized BMW motorcycle retailer's workshop - and above all, safe.

BMW Service worldwide

And if your travels take you even further afield, you have no need to worry: we are represented in more than 100 countries of the world.



Note:

BMW service partners are listed in the Service Stations booklet for Europe or Asia, available from any authorized BMW motorcycle retailer.

Development...

Motorcyclists have an intensive relationship with nature. BMW has made sure that they continue to enjoy the best possible prospects for successful riding in the future.

For instance, your new Boxer is available with exhaust emission control by closed-loop, threeway catalytic converter.

...waste disposal...

Behind the scenes, in the repair shop, we do not neglect the pro-environmental aspects of our work either.

Wherever possible, we use environmentally acceptable biodegradable materials. We ensure strict compliance with all environmental legislation, for example the correct disposal of old oil, which is now classified as hazardous waste in many countries.

...recycling

Alongside the correct disposal of environmentally hazardous materials, recycling is another high-priority issue for BMW. For example, plastics that are marked according to type can more easily be returned to the materials cycle. Remember: when it comes to making repairs to your motorcycle, the authorized BMW motorcycle workshop is far better equipped to protect the environment than you are at home.

BMW rider's equipment



The essentials

To reach your destination safely every time, there is only one choice:

- Helmet
- Suit
- · Gloves
- Boots

It is foolish to ride without these items of clothing. This even applies to short journeys, and to every season of the year.

Well-planned riding pleasure

Many motorcyclists have learned the hard way that the proper clothing contributes so much to riding pleasure. You must feel comfortable and relaxed - and your own safety must never be endangered. There is no doubt about it: when buying motorcycling clothing, you simply cannot set your sights too high. It is good to know that the BMW brand can be trusted to supply you with safe, high-quality rider's clothing as well. Information on the latest prod-

Information on the latest products is always available from your BMW motorcycle retailer.

BMW motorcycle equipment



Always an idea ahead

This is our motto – and it is one we live up to. For many years now, BMW has offered the enthusiast everything capable of enhancing the fascination of motorcycling. A unique programme that is regularly updated and offers plenty of scope for choosing items according to individual preferences.

Ask your BMW motorcycle retailer for the latest upgrades and retrofits.

Every accessory product is made to the same exemplary standards of design, function and quality as the motorcycle itself. This calls for a great deal of experience, but our engineers are themselves enthusiastic motorcyclists who know what is needed. Accessories and motorcycle equipment are included when a new motorcycle is being developed, and their practical features optimised in a series of thorough tests. This is your guarantee of the high quality you expect from BMW

Cornering and braking need to be practiced

Develop a "sixth sense" for potentially dangerous situations. What this means: look ahead, plan how to avoid possibly dangerous situations and study other road users' behavior with a degree of healthy scepticism.

- Take bends smoothly and rhythmically, avoiding violent braking and acceleration
- Approach bends slower than you feel they can be taken; a neat riding style will get you to your destination more safely than sheer speed
- Ride at the inner edge of the ideal line, look ahead and plan to leave the bend as smoothly as you entered it

Allow for reaction time when judging braking distances.

- At a speed of 31 mph (50 km/h), for instance, one second's hesitation means that about 46 feet (14 metres) are covered additionally before the brakes are applied
- At 56 mph (90 km/h), this distance grows to 82 feet (25 metres)

Practice applying the brakes with and without an extra load on the motorcycle, and study its reactions on various kinds of road surface.

Work up to the wheel lock limit gradually.

BMW has a worthwhile safety contribution to make in this area too – BMW Safety Training. These programmes are a wonderful opportunity: systematic basic and follow-up training enables you to master situations close to the limit and keep your motorcycle under supreme control whatever happens.

Now it is your turn.

- Regular care is important, with all functions checked before the journey starts
- Use only genuine BMW accessories. They comply with all the relevant safety requirements and are perfectly matched to your BMW
- Your BMW motorcycle retailer is best placed to service your motorcycle
- Do not under any circumstances install unapproved extras: the use of unapproved accessories constitutes a safety risk and voids your insurance and the motorcycles permit
- Technical modification should be performed by a trained mechanic at your BMW motorcycle dealership



Note:

Your local BMW motorcycle retailer can supply you with useful items to accompany the Service and Technical Booklet.

- BMW breakdown kit
- BMW Repair Manual
- BMW set of circuit diagrams
- BMW Motorrad Tour Service

It is good to know you have thought of everything, isn't it?

Our aim is to make your journey safer

We want you to reach your destination safely – and for riding your BMW Boxer to be the most delightful leisure pastime in the world!

Α

ABS - anti-lock brake system, 68 Active brake with ABS changing the brake fluid, 31 checking brake fluid level, 31 Anti-lock braking system notes, 73

В

BMW Integral ABS troubleshooting chart, 73 Brake fluid changing, 28 Brake fluid level checking, 28 checking front, 29, 33 checking rear, 30, 34 Brake pads, checking, 27 Brake servo, 68 Brake system checking, 26 general, 26, 27 with BMW Integral ABS, 32 without BMW Integral ABS, 28, 29, 30 Braking, precautions, 64

С

Capacity, 23 Catalytic converter, 49 safety instructions, 49 Center stand, 52, 53 Checking brake fluid level, 28 Choke

cold start, 10, 59 Choke lever operation, 59 position, 10 Clock (in cockpit), 7 Closing the System case, 17 Clutch fluid level, 35 Clutch lever, 24 Cockpit layout, 6 cover, 13, 14

D

Dipswitch, 10 Dualseat, 15 adjusting, 13, 14 closing the storage compartment, 15

E

Engine oil Filler, 21 filler, 4 Engine oil level sight glass, 4 Engine oil pressure warning light, 60

F

Front brake brake fluid reservoir, 5 Front brake fluid level, 29, 33 Front brake lever, 25

P

82

f

83

ndex

Fuel, 22 octane number, 23 refuelling, 22 Fuel filler cap, 5 Fuse box, 5

G

Gear shifts, 62, 63 General view left side, 4 right side, 5

н

Handlebar fitting left, 10 right, 11 Handlebar levers, 24 clutch 24 handbrake, 25 Hazard warning flashers, 12 Headlight beam throw adjustment, 36 Heated handlebar grips, 11, 12 Helmet holder, 13 High/low (dipped) headlight switch, 10 Horn, 10 Hydraulic fluid clutch, 35

I

Ignition switch and steering lock, 6 function, 8, 9 Ignition, switching on, 56, 57 Indicator and warning lights ABS, 7 battery charge, 7 engine oil pressure, 6 fuel level, 6 high (main) headlight beam, 7 neutral indicators, 7 Indicator lights ABS, 61 battery charge, 61 engine oil pressure, 60 fuel tank level, 60 Installing System case, 18 Instruments, 6

Κ

Kill switch, 11

L

Lights general instructions, 36 headlight beam throw, 36

М

Motorcycle equipment, 79

Ν

Neutral, 57

0

Octane number (fuel), 23 Oil filler, engine, 4 Oil level engine oil pressure, 6, 60 sight glass, 4 Opening the System case, 16 Overheating, 58

Ρ

Partially integral brakes, 68 Power socket, 4

R

Removing System case, 17 Residual braking, 32 Residual braking function, 69 Rider's equipment, 78 Riding, 62 Running in, 55

S

Safety check, 19 Safety instructions catalytic converter, 49 Explanation, 86 general, 48, 49 Seat, single, 15 Service worldwide, 76 Shock absorbers, 40 Side stand, 50, 51 Spring preload, front, 41 Spring strut, 4 Starter button, 11 Starting the engine, 58 Storage compartment, 15 System case, 16

Т

Tachometer, 6 Tire pressures, 43 Tire valve caps, 42 Tires running-in, 55 Toolkit, 5, 15 Tread depth, tires, 42 Troubleshooting chart, 73 Troubleshooting, ABS, 73 Turn indicator switch left, 10 right, 11 Turn indicators indicator lights, 7 Turn-indicator cancel switch, 11 Type plate, 5

V

Valve caps, 42

W

Warning lights ABS, 61 battery charge, 61 engine oil pressure, 60 fuel tank content, 60 general, 61 Wheels, 42

P

84

Details described or illustrated in this booklet may differ from the motorcycle's actual specification as purchased, the accessories fitted or the national-market specification. No claims will be entertained as a result of such discrepancies. Dimensions, weights, fuel consumption and performance data are quoted to the customary tolerances.

The right to modify designs, equipment and accessories is reserved.

Errors and omissions excepted.

© 2002 BMW Motorrad Not to be reproduced either wholly or in part without written permission from BMW Motorrad,

After Sales. Printed in Germany

BMW recommends Castrol



BMW Motorrad Printed information

Order No.: 01 47 7 677 437 09.2002 1st edition US / RF



The Ultimate Driving Machine