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BRAKE DISC USER MANUAL

A GLOBAL BRAND OF 

AWARDS:



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Meng Kah Auto Parts Trading Sdn. Bhd. incorporated in the year 1998, with the core business of importing and distributing motorcycle parts and accessories. With a successful venture, it has created a brand "Racing Boy" to meet the high demand and expectation of its customers. The services include in-house designing, testing, developing and manufacturing of high quality and stylish products.

In the year 2013, Racing Boy has again rebranded itself as "RCB" to further solidify as an international name. Today, RCB design and manufacture a full range of accessories that includes rims, absorbers, braking systems, engine parts and handling systems. RCB, a leading international brand.

Safety Symbols

In this manual, mounting instructions and other technical documents, important information concerning safety is distinguished by the following symbols :

Danger!

The Danger Symbol: If not observed, have a high degree of probability that they will cause serious injury or even death.

Warning!

The Warning Symbol: If not observed, could possibly cause injury.


Caution!

The Caution Symbol: if not observed, could result in damage to the vehicle

This RCB product has been designed to comply with applicable safety standards. Products are not intended to be used differently from the specific use for which they have been designed and manufactured. Use for any other purpose, or any modification to, or tampering with, the Product can affect the performance of the Product and may render the Product unsafe. Such modification or improper use will void the Limited Warranty, and may subject the individual so using the Product to liability for bodily injury or property damage to others.


Danger!

This Product is vital to the safe operation of the vehicle on which it is installed, and it is intended to be installed only by a skilled, qualified individual who has been trained and/ or is experienced in the installation and use for which the Product is intended. The installer must be equipped with the proper tools of his trade, and with the knowledge and experience to deal with vehicle repairs. Improper or incorrect installation, whether caused by a failure to faithfully and completely follow these Instructions or otherwise, will void the Limited Warranty and could subject the installer to liability in the event of personal injury or property damage. RCB shall not be liable for any damage or injury caused to or by any person operating a vehicle on which a replacement product has been improperly installed.

 The used product replaced by this Product must not be installed on any other product. Property damage and personal injury, including death, could result.

Warning!

In this course of replacing the product, and related items such as brake fluid, brake pads, brake shoes, and the like, the installer will be exposed to fluids and parts that may be deemed to be "hazardous waste" under applicable laws, rules and regulations. All such wastes must be handled, recycled and or disposed of in accordance with all applicable laws, rules and regulations. The failure to do so can subject the generator of the hazardous waste to penalties under environmental laws, and could result in bodily injury or property damage to the generator or others.


 Always check that the brake fluid level in the reservoir is between the minimum and maximum levels indicated on the reservoir. An incorrect level can cause brake fluid leaks or reduced brake system efficiency. Too much or too little brake fluid in the reservoir could cause the brakes not to perform properly, and personal injury, including death, could result.

Warning!

To avoid creating a defective installation, avoid sharply striking and/ or damaging the Product, its parts and its components, as this can impair their efficiency and may cause them to malfunction. If necessary, replace any damaged part or component.


To avoid injury:

- Always wear gloves during disassembly and assembly of components with sharp edges.
- Do not allow skin surfaces to make direct contact between the pad and shoe linings since this could cause abrasions.
- Ensure correct connection of any electrical contacts, checking that the warning lights come on. If they do not, non-operation of the warning lights can cause a reduction in efficiency of the braking system, or brake signaling failure.

 Avoid contact of grease and other lubricants with the braking surfaces of the disc and pads as this could affect the efficiency of the braking system and cause serious physical damage.

Caution!

Check that the bearing seats are free from dirt. Any dirt present can damage the seats during assembly operations and shorten bearing life.

 Do not use sharp tools when fitting rubber components, since this can damage them. Be sure to replace damaged components.

 Every time the discs are changed you should also replace the pads.

Notice

This feature only available for a certain model of motorcycle.

FRONT BRAKE DISC



REMOVE THE FRONT WHEEL

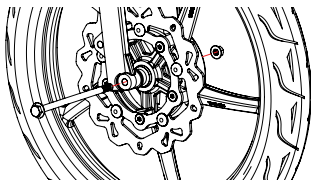
Notice

- Keep any type of magnets (including magnetic pick-up tools, magnetic screwdrivers, etc.) away from the front wheel sensor or front wheel sensor rotor; otherwise, the sensor or rotor may be damaged, resulting in improper performance of the ABS system.
- Do not drop the front wheel sensor rotor or subject it to shocks.
- If any solvent gets on the front wheel sensor rotor, wipe it off immediately.

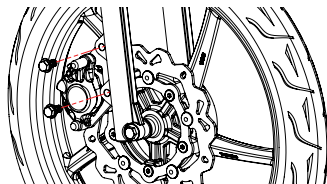
- First jack up your motorcycle securely in order to unload the wheel.

Warning!

Securely support the vehicle so that there is no danger of it falling over.



- Unscrew the nut on the pin and loosen the screws of the fork joint feet, on both sides if present, without taking them out.
- Remove the pin keeping the wheel slightly raised to permit extraction of the pin.
- Remove the wheel.



- Loosen the fastening screws of the caliper.
- Move the caliper away from the disc.
- Hook the caliper or calipers to the vehicle chassis by means of appropriate supports.

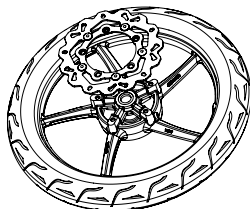
Warning!

During all the operations described below, the caliper fluid inlet hose must NOT be disconnected.

Caution!

Do not apply the brake lever when removing the brake caliper.

RELEASE THE OLD BRAKE DISC

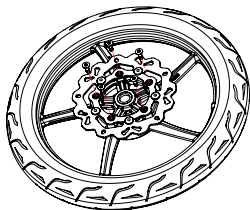


- Rest the wheel on a rest surface.
- Unscrew and remove the disc fastening screws.
- Remove the disc to be replaced.
- Clean the area where the disc rests on the wheel using a degreasing product.

Warning!

Ensure that the solvent does not come into contact with parts of the wheel that could be damaged (rubber and paint). Absorb with paper.

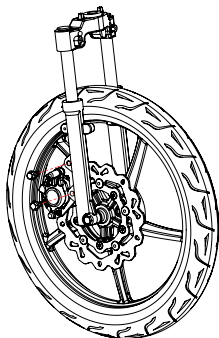
FIT THE FRONT BRAKE DISC



- Fit the new brake disc.
- Use torque wrench to tighten the fastening bolts to the torque specified by the vehicle manufacturer, in diagonally opposite sequence.

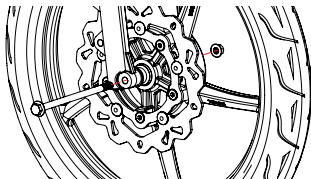
Warning!

Always replace badly corroded or damaged fastening bolts with new ones.



- Install the front caliper to the fork joint.
- Compress the suspension to bed the fork joint.
- Tighten the screws of the fork joint foots using a torque wrench, applying the torque prescribed by vehicle manufacturer.

REFIT THE FRONT WHEEL



- Insert the wheel in the fork joint observing the forward rotation direction indicated on the wheel.
- Clean with a damp cloth and lubricate the surface of the pin to facilitate insertion.
- Insert the pin keeping the wheel in the correct position with one hand and centring the spacer and the milometer transmission, if provided.
- Position the screws of the feet of the fork joint, on both sides if present, only tightening them far enough to keep them in position.
- Tighten the nut on the pin to torque prescribed by the vehicle manufacturer.

REAR BRAKE DISC



REMOVE THE REAR WHEEL

Notice

- Keep any type of magnets (including magnetic pick-up tools, magnetic screwdrivers, etc.) away from the front wheel sensor or front wheel sensor rotor; otherwise, the sensor or rotor may be damaged, resulting in improper performance of the ABS system.
- Do not drop the rear wheel sensor rotor or subject it to shocks.
- If any solvent gets on the rear wheel sensor rotor, wipe it off immediately.

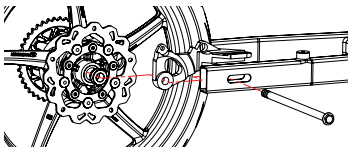
- Stand the vehicle on a level surface.

Warning!

Securely support the vehicle so that there is no danger of it falling over.

TIP

Place the vehicle on a center stand so that the rear wheel is elevated.



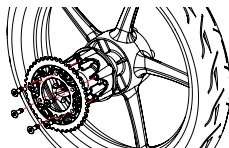
- Unscrew the nut on the pin.
- Remove nut and washer.
- Remove the pin keeping the wheel slightly raised to permit extraction of the pin.
- Remove the spacer.
- Gently push the wheel towards the vehicle.
- Slide the chain out of the sprocket resting it on its side.
- Remove the wheel.
- Release the old brake disc. Refer to "Front Brake Disc" on page 5

FIT THE REAR BRAKE DISC

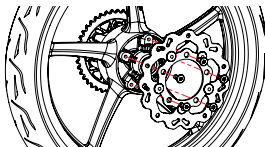
- Clean the supporting surfaces, all the seats and all the components involved in the refitting operation using a degreasing product.

Warning!

Ensure that the solvent does not come into contact with parts of the wheel that could be damaged (rubber and paint). Absorb with paper.

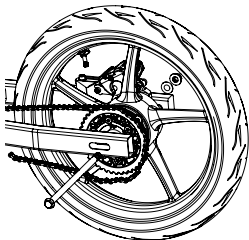


- Position the sprocket on the rear wheel.
- Re-tighten the sprocket fastening screws, if provided, applying the tightening torque prescribed by the vehicle manufacturer.



- Position the brake disc to the rim.
- Insert the new fastening screws and tighten them with a torque wrench.

REFIT THE REAR WHEEL



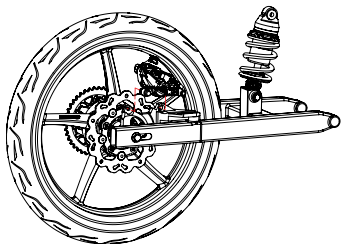
- Slightly lubricate the surface of the pin to facilitate insertion.
- Insert the wheel into the fork.
- Reposition the caliper on the brake disc.
- Gently push the wheel towards the vehicle.
- Reposition the chain on the sprocket .
- Correctly reposition the spacer.
- Insert the pin, checking that it fits into the hole provided on the caliper supporting bracket and that the caliper is correctly positioned in its seat on the fork.
- Check correct positioning of the pin in its seat on the fork.
- Correctly reposition the washer and nut.
- Position a shim (e.g. a screwdriver) between the chain and the sprocket.
- Rotate the wheel far enough to block the shim between the chain and the sprocket.



Caution!

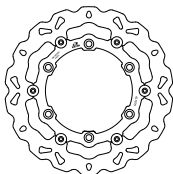
This operation eliminates the need to tension the chain.

- Tighten the nut on the pin to tightening torque prescribed by the vehicle manufacturer.
- Rotate the wheel in the opposite direction and remove the shim.
- Check correct tensioning of the chain according to the directions provided by the vehicle



- Reposition the caliper on the brake disc.
- If the pads obstruct insertion of the caliper on the disc, press firmly with your hands on the pads to retract the pistons.
- Tighten the fastening screws of the caliper of calipers, applying the tightening torque prescribed by the vehicle manufacturer.
- Check the brake fluid level and top up if necessary with new fluid in compliance with the recommendations of the vehicle manufacturer.
- Remove the vehicle from the stands.
- Repeatedly operate the brake lever/ pedal until the normal resistance has been restored and check braking efficiency.

CHECKING THE BRAKE DISC



Damage/galling → Replace

Warning!

Never attempt to make any repairs to the disc.

Measure The Brake Disc Thickness

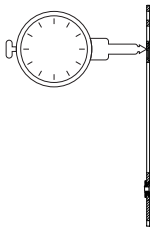
- Measure the brake disc thickness at a few different locations.
- Out of specification → Replace.

Warning!

In order to achieve optimum braking performance with a new brake disc, always replace the brake pads at the same time.

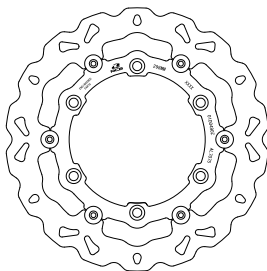
While working on the brakes, make sure that no grease, paste, brake fluid or other chemicals come into contact with the surface of the brake pads.

Measure The Brake Disc Runout



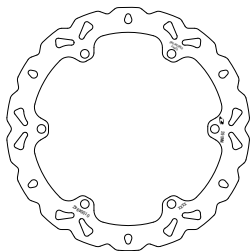
- Place the vehicle on suitable stand to make sure the wheel to be measured is elevated.
- Remove the brake caliper.
- Hold the dial gauge at a right angle against the brake disc surface.
- Measure the runout 1.5mm (0.06in) below the edge of the brake disc.
- **Brake disc runout limit: 0.15mm (0.0059in)**
- Out of specification → replace the brake disc.

S-SERIES ALLOY DISC



- Floating Brake Disc
- Alloy 7075 (Aircraft Grade)
- Enhance durability level
- Improve Safety & Performance
- Provide Effective Braking Power
- Anodised anti Rust
- Better Heat Dissipation

E-SERIES STEEL DISC



- High Quality Buttons
- Heat treated Stainless Steel
- Enhance durability level
- Improve Safety & Performance
- Provide Effective Braking Power
- Better Heat Dissipation



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