D.I.D®

ACE WHEEL

Instruction & Maintenance Manual

Ace Wheel Overview

1) This product is intended for racing use only and for use in closed areas.

2) Failure to understand the product may result in fatal accidents.

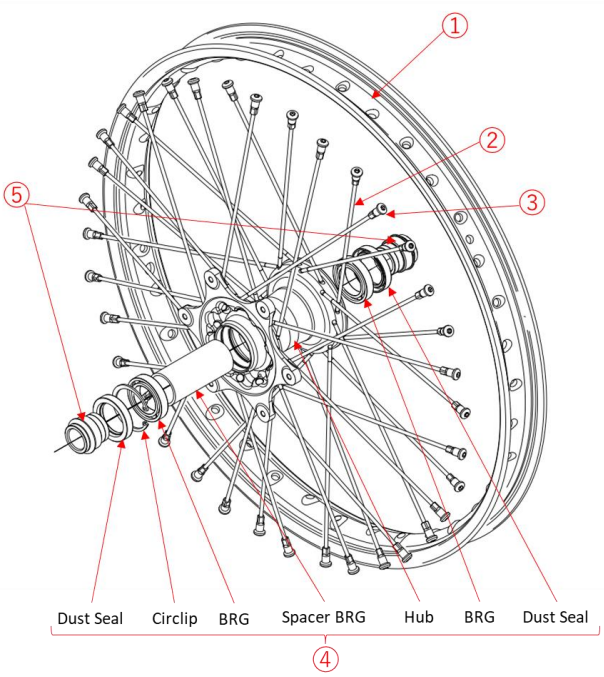
3) Installation and maintenance should be performed by a professional mechanic who understands the characteristics of off-road bikes.

Ace Wheel Components (*Example: KTM)

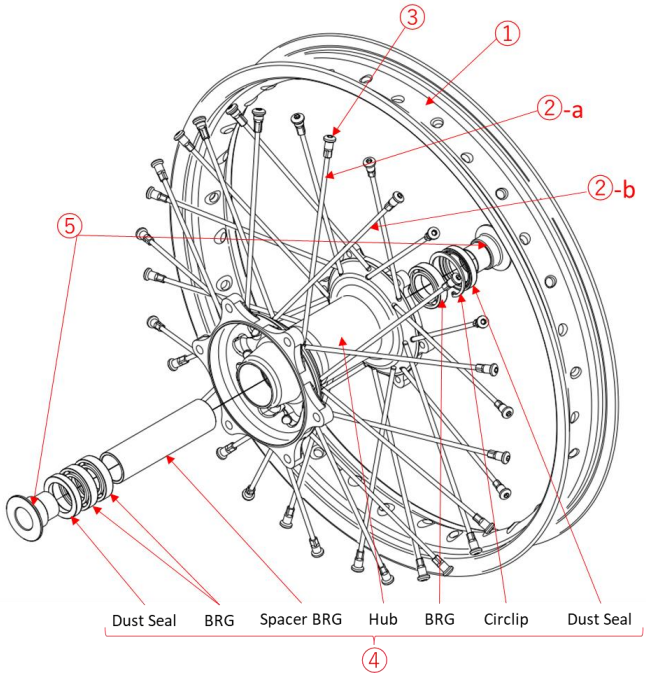
*** For Ace Wheel for other manufacturers' motorcycle, the product structure may vary. (Example: The front Circlip is only included with the KTM Ace wheel.)**

**** Product image below for illustration purposes only. Actual product may vary.**

Front



Rear



Front

① 21X1.60 D.I.D Ace Wheel Rim (1)

② D.I.D Ace Wheel Front Spokes (36)

③ D.I.D Ace Wheel Front Nipples (36)

④ D.I.D Ace Wheel Front Hub Assy (1)

*Hubx1, BRGx2, Dust Sealx2, Spacer BRGx1, Circlipx1

⑤ D.I.D Ace Wheel Front Collar Axle (2)

Rear

① 19X2.15 D.I.D Ace Wheel Rim (1)

②-a D.I.D Ace Wheel Rear Inner Spokes (16)

②-b D.I.D Ace Wheel Rear Outer Spokes (16)

③ D.I.D Ace Wheel Front Nipples (32)

④ D.I.D Ace Wheel Front Hub Assy (1)

*Hubx1, BRGx3, Dust Sealx2, Spacer BRGx1, Circlipx1

⑤ D.I.D Ace Wheel Rear Collar Axle (2)

Ace Wheel Spoke Torque

4) Since the spoke torque of a new wheel varies greatly after it is first used, be sure to perform a "break-in run".

Note:

a) For break-in, run at a low speed and check the spoke torque every 15 minutes. Perform this step 3 times.

b) Gradually increase the speed and impact of jumps and landings.

c) Careful "break-in run" will ensure that the wheels retain their performance for a long time.

d) The set spoke torque: FR= Minimum 4.0 Nm and RR= Minimum 4.0 Nm.

5) Wheel offset is as follows:

i) KTM: Front=25mm & Rear= 53mm

ii) YAMAHA: Front=27.3mm & Rear= 48.6mm

iii) HONDA: Front=27.8mm & Rear= 49.3mm

*Note: Measuring distance of wheel offset to be:

Front= (Between mounting surface of brake disc and edge of rim)

Rear= (Between mounting surface of sprocket and edge of rim).

6) Check the rim for cracks and spoke torque before riding.

7) In case the spoke torque is higher than the set torque, loosen the nipple and adjust the torque in the tightening direction.

8) Eliminate uneven tension throughout the spokes

Ace Wheel Maintenance

9) Remove the wheel runout in case it becomes larger, which can improve vibration and poor handling problem.

*Note: Regarding the criteria value of radial / lateral runout, refer to the OEM service manual.

10) When riding on muddy or sandy surfaces, mud and sand can get into the tire mounting face (under the rim strip). This can cause instability of spoke torque so clean the tire mounting surface after each ride.

11) Check the dust seal regularly. In case there is dirt inside the collar axle, the dust seal may be worn out.

12) Check the bearing rotation regularly and replace the bearing in case it has rotation failure.

13) The contact point between the lip of the dust seal and the collar axle is subject to wear. Note that the collar axle is a consumable part and should be replaced when it’s worn out.

14) The mounting bolts for the sprocket and brake disc should be OEM product. They should be checked and tightened regularly.

*Note: As for the sprocket, OEM or OEM-type product should be used.

15) Due to the characteristics of the product, the color of this product may fade significantly under the influence of ultraviolet rays and other factors especially where it's left outdoors for long periods of time.

*Please verify model year for your motorcycle