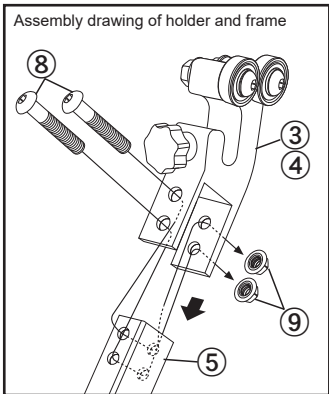


Instructions

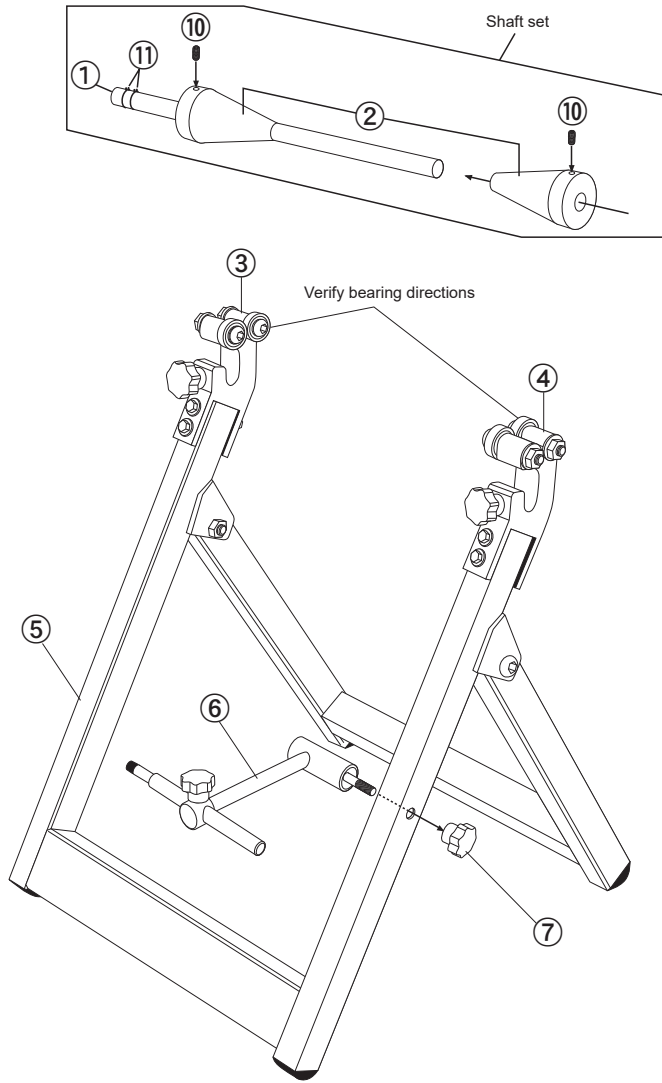
DRC GYRO STAND2

Thank you for purchasing DRC GYRO STAND2.
This product is a wheel truing, balancing and bearing check folding stand. Designed so everyone can easily do wheel works.
Please read instructions carefully for proper use.

Contents of kit



Connect ③④ Holder and ⑤ Frame with ⑧ M6 bolts. Verify that there are no backlash when tightening bolts and nuts. This drawing shows the right side. Bearing position is opposite on the left side.



D365-004E

1.Important notes

- Can be used on rim sizes from 10 to 23 inches.
- *Can not be used for balancing wheel sizes of more than 22 inches due. There will be no clearance for the tire on wheels greater than 22 inches.
- Optional parts are required for wheels where the bearing diameter is less than 15mm.
- Be careful not to catch fingers when folding the stand.

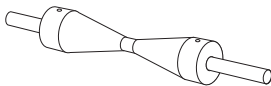
2.Contents of kit

① Shaft	1 ea.	⑤ Frame	1 ea.	⑨ M6 lock nut	4 ea.
② Clamp head	2 ea.	⑥ Arm set	1 ea.	⑩ M6 set screw	2 ea.
③ Holder set L	1 ea.	⑦ Red knob A (Nut type)	1 ea.	⑪ Circlip	2 ea.
④ Holder set R	1 ea.	⑧ Bolt	4 ea.		

3.Optional part

D36-52-191 GYRO Optional 10mm shaft set

For wheels bearing with inner diameter from 10mm to 15mm.

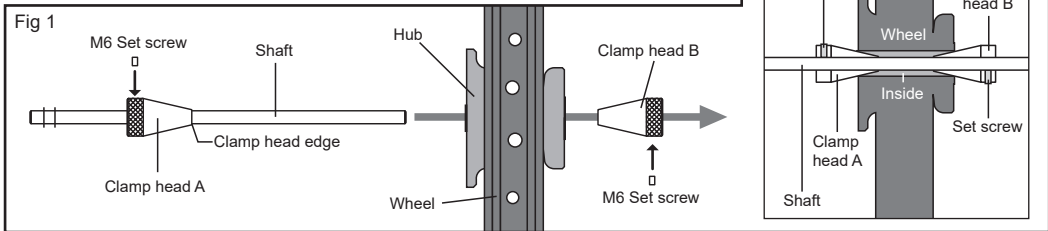


4.Required tools & parts

■For truing	· Spoke wrench	■For balancing	· New balance weight
	· Hex wrench 3mm		· Hex wrench 3mm

5.Set a shaft set on wheel

- 1) Attach Clamp head A on to the shaft.
- 2) Center wheel hub at the middle of shaft and secure Clamp head A by tightening set screw.
- 3) Place Clamp head B on other side.
- 4) While pulling shaft, push Clamp head B on the hub. Then tighten M6 set screw to hold the hub in place.*
- *Make sure to place set screws in opposite positions between Clamp head A and B.
- 5) Make sure clamp heads are securely attached on the hub and with no backlash.

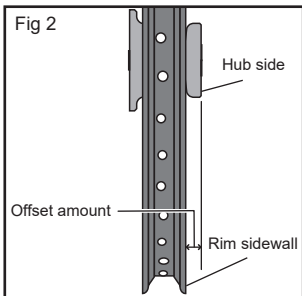


⚠Caution

- ★ Clamp heads may not be able to be set inside of the hub for some models. In this case secure the hub by clamping on both sides with the clamp heads.
- ★ Remove wheel spacers and dust seals before setting the shaft set.

6.Before reassembling

Verify wheel offset amount between out side of hub and rim sidewall before disassembling the wheels.
Measure between outside of hub and rim sidewall distance, for offset amount as shown in Fig 2. Note the offset amount for assembling the wheel.

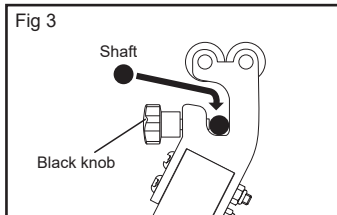


7.Wheel Truing

Remove tire from the wheel for wheel truing.

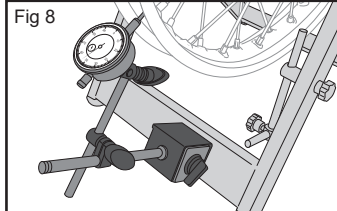
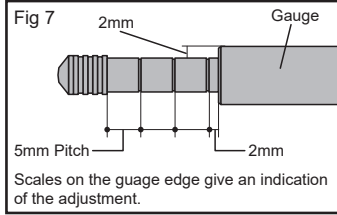
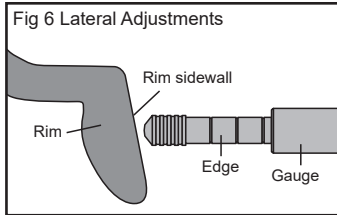
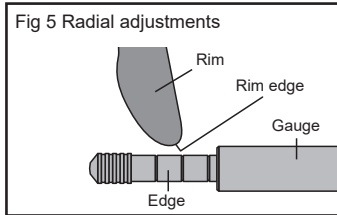
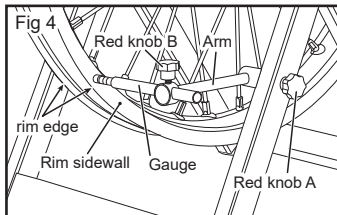
●Setting the wheel

- 1) Set a shaft set on the wheel.(See 5.Set a shaft set on the wheel.)
- 2) Set wheel with shaft set on holders as shown in Fig 3. Tighten black knob to secure the shaft.



●Radial (Vertical) Adjustments

- 1) Loosen Red knob A and move arm to place gauge near the rim edge as shown in Fig 4.
- 2) Place gauge edge near the outer edge of the rim as shown in Fig 5 and tighten Red knob B to secure the gauge.
- 3) Rotate wheel slowly and verify the gap between gauge and outer edge of rim. Adjust to same gap by tightening or loosening spoke nipples with spoke wrench.



●Lateral (Side to Side) Adjustments

- 1) Loosen Red knob A and move arm to place gauge near the rim sidewall as shown in Fig 4.
- 2) Place gauge edge near the rim sidewall as shown in Fig 6 and tighten Red knob B to hold the gauge.
- 3) Rotate wheel slowly and verify the gap between gauge head and rim sidewall. Adjust to same gap by tighten or loosen spoke nipples with spoke wrench.

⚠Caution

- ★ Wheels truing is set when the offset amount is the same distance as shown in Fig 2.
- ★ Scales on the gauge edge gives an indication of the adjustment as shown in Fig 7.

★ Verify all nipples are tightened to a suitable tightening torque.

★ Please refer your service manual for tightening torque of nipples and rim maximum swing amount.

●Bearing check

Bearing can be checked during wheel truing.

- 1) Attach shaft set on the wheels as show in Fig 1.
- 2) Set wheel with shaft set on the holder as shown in Fig 3.
- 3) Rotate wheel slowly and check bearing for smooth rotation. It is time to change the bearings when the wheel does not rotate smoothly.

●Adjustment using a dial gauge

A dial gauge with a magnetic base can be attached to the front side of the frame. as shown in Fig 8. Using a dial gauge makes it easier to perform highly accurate runout adjustment.

*Be careful not to damage the rim with the dial gauge.

8 .Wheel Balancing

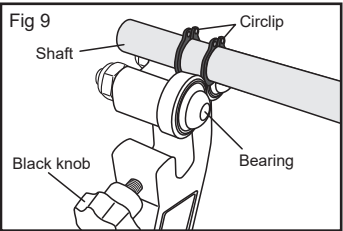
Check wheel balance with tire attached.

●Setting the wheel

- 1) Set the shaft set on the wheel.(See 5.Set a shaft set on the wheel.)
- 2) Place the shaft so that the bearing is between the two circlips as shown in Fig 9. This two circlips prevent the shaft from moving right and left and falling off from the bearing during work.
- 3) Verify smooth wheel rotation.

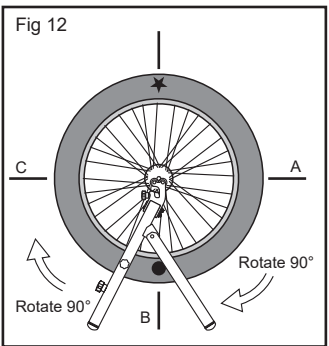
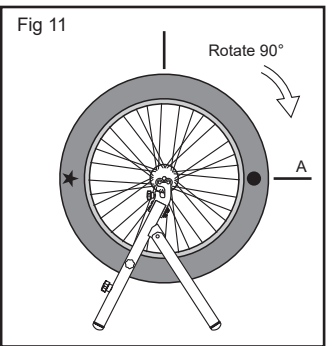
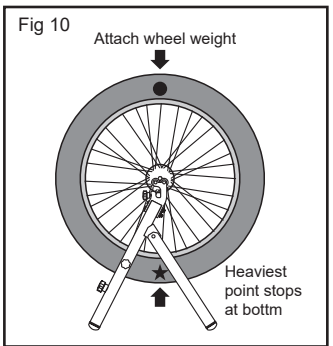
★Remove old wheel balance weight.

★Verify tire bead is in the correct position and air pressure is correct.



●Wheel Balancing adjustment

- 1) Rotate wheel slowly and verify stopping point. Rotate wheel several times. If stopping points are not in the same position, the wheel is balanced. If stopping points are at the same position, the wheel is not balanced. Heaviest point on this wheel is ★bottom position.(Fig 10)
- 2) The opposite position of the ★heaviest point is ●lightest point. Attach balance weight on the lightest position.(Fig 10)
- 3) Rotate wheel to position A(90 degrees). Verify ★heaviest point and ●lightest point are in a horizontal position.(Fig 11)
- 4) After confirm the balancing, rotate wheel 90 degrees to B and C positions and see if wheel is balanced at these different positions. Wheel Balancing is set if the wheel is balanced at all angles.(Fig 12)



9.Storage

GYRO STAND2 can be folded to a very compact size.

*Be careful of gauge bending.

*Be careful not to catch fingers when folding the stand.

Size after folding
Width 340mm X Length 370mm X Height 110mm

