

RETROSPEC ASSEMBLY INSTRUCTIONS MANTRA & DROME MODELS

TOOLS

What we give you: 2 Allen Wrenches (5mm, & 6mm), a 10-function multi-tool

What you need: Scissors or diagonal cutters, Phillips Screwdriver, 15mm open end wrench or adjustable wrench.

UNPACK YOUR BIKE

1 – Cut the shipping straps on the outside of the box.

2 – Remove the box staples as these are sharp and can cut you as you access the bike.

Open up the cardboard flaps, lift it out of its box, and inspect your new bike.

3 – Rotate the fork so that it is facing forward of the bike (**Figure 1**). Place the bike on the ground, so it's standing upright on the fork dropouts and rear tire.

4 – Cut all of the packing zip ties.

5 – Separate the front wheel from the bike by carefully slipping it away from the crank arm, which is resting within the spokes.

6 – Remove the accessory box and set it aside.

7 – Examine your new bike for any visible damage that may have occurred during shipping and make sure you have all of its bits and pieces.

8- Special Note: *For tightening all fasteners, please refer to Appendix D in the back of your owner's manual for all fastener torque specifications.*



SADDLE

1 – Remove the plastic shipping plug from the top of the seat tube (**Figure 2**).

2 – Use the included Allen wrench to loosen the seat clamp at the top of the seat tube.

3 – RECOMMENDED; Apply a thin layer of grease to either the end of the seat post or inside the seat tube

4 - Insert the seat with the seat post into the seat tube of the frame to at least the minimum insertion line on the shaft of the seat post. **WARNING!** *The minimum insertion line must NOT show above the seat tube (**Figure 3**).*

5 - Using the Allen wrench, tighten the seat clamp once it is at the correct height.

Note: You can make the final adjustment to the height of the seat as needed after the bike is assembled.



WARNING! *Using the bike with the minimum insertion line on the lower portion of the seat post showing above the frame could result in a failure of the seat post and/or the frame causing a loss of control with potential injury to rider. Such failures are not covered by warranty as it is improper use of the product.*

HANDLEBARS

1 – Make sure that the handlebar stem and fork are facing towards the front of the bike.

Remove the four face plate bolts from the front of the handlebar stem.

2 – Remove the face plate and place the handlebars in the stem, making sure the handlebars are centered.

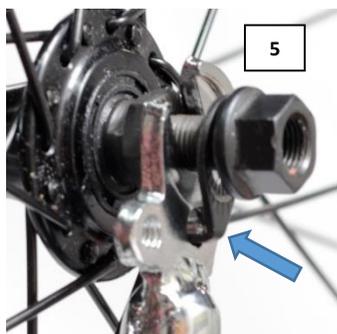
3 – Replace the face plate and insert each of the four bolts tightening each a little bit at a time to ensure even pressure on all four corners using a cross pattern (**Figure 4**).

Note: You'll be able to adjust the angle of the handlebars by loosening the bolts and re-adjusting the bar.



FRONT WHEEL

- 1 – Flip the bike over so it's resting on the saddle and handlebars.
- 2 – Remove the plastic protector from the fork dropouts.
- 3 – Loosen the axle nuts on the unattached front wheel.
- 4 – Place the front wheel into the fork dropouts and insert the safety washers into the small holes on either side of the wheel on the outside of the fork (**Figure 5**).
- 5 – Inspect the wheel to make sure it is centered in the frame. To do this, stand the bike up on its wheels and check to see that the axle is fully in the drop out. Then tighten each axle nut with the wrench, alternating between sides, until each axle nut is properly tightened (**Figure 6**).
- 6 – Return the bike onto its wheels and align the handlebar stem to the front wheel. Once it is aligned to the front wheel, tighten the two stem pinch bolts located at the back of the stem by alternating between them and tightening a little at a time until both are secure and hold the stem in place so it doesn't move from side to side. (**Figure 7**).

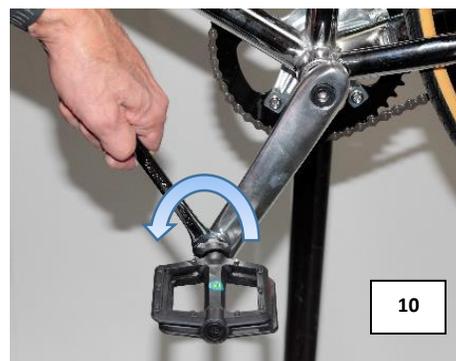
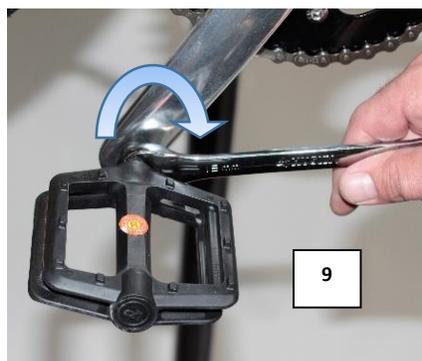


PEDALS

- 1 – Locate the pedal stamped “R” on the end of the spindle (this is the **RIGHT** pedal (**Figure 8**)).
- 2 – **RECOMMENDED**; Apply some grease to the pedal threads prior to installation. Carefully insert the right pedal into the right side crank arm (the side with the chain) and thread it **clockwise** . You should be able to thread the pedal in part of the way by hand with minor resistance. If it seems difficult and binds, stop, remove the pedal, realign the threads and try again. Be sure you are turning the right pedal axle in a clockwise direction! (**Figure 9**).
- 3 – Tighten the pedal with a 15mm or adjustable wrench until the pedal is securely attached to the crank arm. The pedals need to be tightened with a considerable amount of force so that they do not come lose.
- 4 – Locate the pedal stamped “L” on the end of the spindle (this is the **LEFT** pedal),
- 5 – Thread it **counterclockwise**  and tighten with a 15mm or adjustable wrench following the instructions in step #3 above. (**Figure 10**).

NOTE:

Be sure to tighten both pedals with an adjustable wrench or 15mm open end wrench to the recommended torque specification otherwise they will unscrew while riding causing an unsafe condition for the rider and damaging the threads in the crank



BRAKES

NOTE: We *highly* recommend taking your bike to a local bike shop and having your brakes set-up by a professional mechanic before your first ride.

Your Mantra bicycle is equipped with front and rear side-pull brakes.

Your Drome bicycle is equipped with a front side-pull brake.

If you decide to attempt adjusting the brakes yourself:

1 - Be sure that the brake pads are aligned with the curve of the rim and that they contact the rim surface flat and evenly (**Figure 11**). The brake shoe angle and height can be adjusted by loosening the Allen bolt attaching the brake shoe to the brake arm. Notice that the brake shoe can articulate a certain amount up and down and side to side.

2 - Loosen the brake cable anchor at the brake arm held by an Allen bolt allowing the brake cable to freely glide through its anchor.

3 - Squeeze the brake arms together until the brake shoes contact the rim surface. Be sure that the black release lever at the brake arm anchor is in the down position. Pull the cable taught through its anchor and tighten the cable anchor bolt (**Figure 12**).

4 - Squeeze the brake lever hard several times to take the stretch out of the cable and make sure that it does not slip through its anchor. If the cable tension is too tight to allow the wheel to spin freely, loosen the anchor bolt and give the cable some slack. If the cable has too much slack and you cannot apply enough stopping force to the rim, repeat procedure #3 to take the slack out of the cable.

Be sure that the brake arms are evenly spaced from the wheel and there is some clearance between the brake pads and the rim surface. If the brake pads are not evenly spaced from the wheel, you can balance the spacing by gripping the brake assembly and rotating until it is centered with the wheel



REFLECTORS

1 – Attach the plastic brackets to the handlebar and seat post (**Figure 13 & 14**).

2 – Slide the reflectors onto the brackets (white in the front, red in the back).

3 – Attach the wheel reflectors onto the spokes of the wheels (these may already be installed from the factory).



FLIP - FLOP REAR HUB - To switch between the fixed cog and the freewheel cog

- 1 – Loosen the nut on the rear wheel chain tensioner until it is loose enough to swing out of the way of the frame dropout.
- 2 – Loosen the axle nuts.
- 3 – Push the wheel towards the front of the bike to loosen the chain and slip the chain off of the cog.
- 4 – Remove the rear wheel, remove the axle nuts and washers, switch the chain tensioner to the opposite side of the axle and replace the axle washers and nuts.
- 5 – Flip the wheel around and place it back into the frame.
- 6 – Replace the chain on the cog.
- 7 – Pull the wheel back so the chain is taut and tighten the nut on the end of the chain tensioner to adjust chain tension. Do not over tighten the chain. There should be approximately $\frac{1}{4}$ " of chain slack up and down when properly adjusted.
- 8 - While holding the wheel centered in the frame, tighten the axle nuts a little at a time alternating between each one until the axle nuts are tight holding the rear wheel securely in the frame.

TIRES

- Locate the tire manufacturer's recommended inflation pressure found on the tire sidewall (listed as "PSI").
- Using a hand or floor pump with a gauge, begin to inflate the tire to half its recommended inflation pressure and check to see that the tire is properly seated on the rim. Be sure to inspect both sides of the tire for proper fit.
- If the tire is seated unevenly or bulges out along the rim, let some air out of the tire and reposition the tire by hand so that it sits evenly on the rim.
- Continue to inflate the tire to the manufacturer's recommended pressure.
- Do not exceed the recommended pressure as this will cause an unsafe condition potentially causing the tire to unexpectedly explode.
- Do not use a compressed air device to inflate your tires as the rapid inflation of the tire can cause it to blow off the rim.
- **Tires and tubes are not warranted against damage caused by over-inflation or punctures from road hazards.**

BEFORE YOUR FIRST RIDE

We strongly recommend you take your bike to a professional bike shop and have them check your work and fine tune the bike to ensure your bike is safe to ride.

SERIAL NUMBER

It is important that you locate and record the serial number of your bicycle in case of a recall or if the bicycle is stolen. The serial number can be found under the crank bottom bracket stamped into the frame.

