

Royal—Owner's Manual—

b.15.01

WARNING!

Riding scooters is an inherently risky activity and could cause serious injury or death.

NEVER ride where there is vehicular traffic.

Reduce risk by only using while wearing full protective gear - helmet, knee pads, elbow pads, wrist guards, and flat soled shoes.

Children using this scooter should be supervised by adults.

PARENTS

You are responsible for your child's safety. Read and explain the information in this manual to your child.

SAFETY

ALWAYS wear helmet, wrist guards, knee pads, elbow pads and flat soled shoes. We strongly recommend wearing gloves, long sleeves, long pants, and hip pads.

NEVER ride where there is vehicular traffic.

NEVER ride without shoes or touch the brake with any part of your body within five minutes of the scooter being used. Friction brakes on scooters get hot enough to burn bare skin.

Children should always be supervised by an adult when riding.

Never ride in the rain or on any slippery surface.

Never ride at night or under poor visibility.

Before riding assess all obstacles and potential dangers both natural and man-made.

Never ride under the influence of alcohol or drugs.

Observe all rules and regulations when riding on public or private lands.

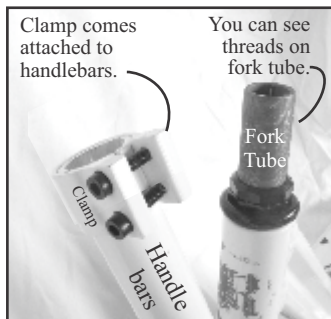
Always ride in control and within the limits of your own ability.

Use common sense and exercise caution at all times.

ASSEMBLY

Royal scooters come pre-assembled except for handlebars. Instructions for attaching handlebars differ depending on the type of fork included on your scooter. Use pictures below to determine which type of fork you have, threaded or threadless, and follow those instructions.

THREADED FORKS



Examples: Royal Guard Scooters, and Royal Scout Dirt Scooter

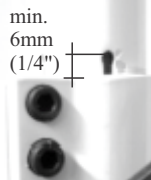
1. Slide handlebars onto fork tube.

Note: You may need to loosen clamp bolts first. If this seems difficult try spinning the bars in a clockwise direction while doing this. This will help "screw" the bars onto the threaded fork tube.

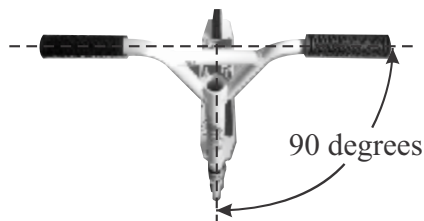


Important: Top of bar slit should be at least 1/4" above clamp to give enough clamping power. If this is not the case raise your bars relative to your clamp to satisfy. Refer to Royal's youtube channel for our related video tech tip:

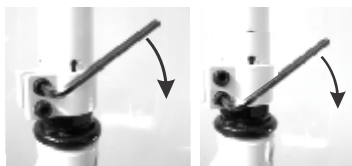
<http://www.youtube.com/royalscooterusa>



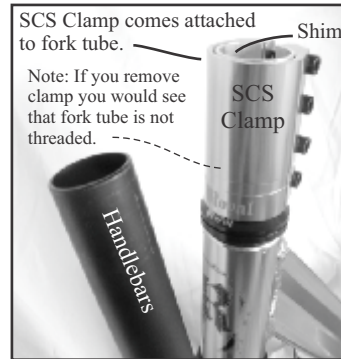
2. Align bars 90 degrees to front wheel so scooter rolls straight when handle bars are in the "straight position" as shown below.



3. In small increments (approx 1/8 turn) tighten clamp bolts - top bolt first, then middle (if any), then bottom. Since tightening one bolt will loosen the others, repeat this several times until all bolts are tight. Finish on the bottom bolt since this one is most important for secure fit.



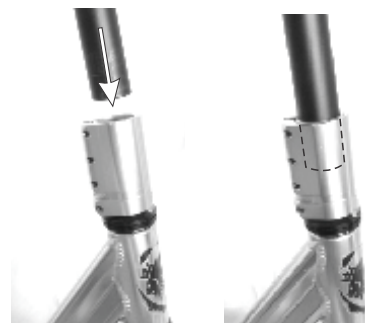
THREADLESS FORKS



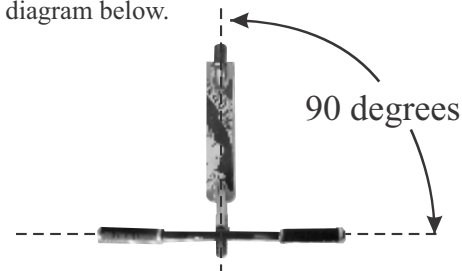
Examples: Royal Knight Scooters, and Royal Scout Pro Dirt Scooter

1. Slide handlebars into SCS Clamp.

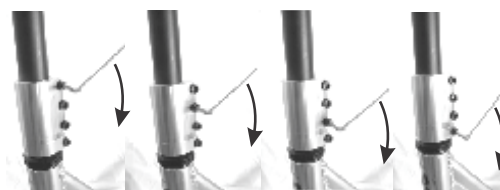
Note: Standard CrMo bars with outside diameter of 1.25" (39.1mm) require a shim within SCS Clamp (see pic above). Oversize bars with outside diameter of 1.375" (34.9mm) do not require shim.



2. Align bars with front wheel. Scooter should roll straight when handle bars are in the "straight position" (i.e. bars at 90 degree angle to direction of travel). See diagram below.



3. In small increments (approx 1/8 turn) tighten SCS clamp bolts - top bolt first, then second, then third, then bottom. Since tightening one bolt will loosen the others, repeat this several times until all bolts are tight.



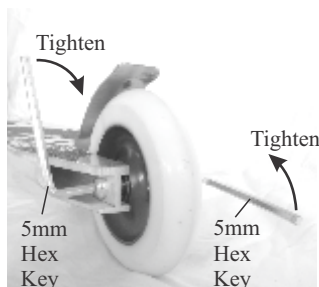
ADJUSTMENT

Royal scooters come “pre-dialed” straight from the factory. However, since everyone has different adjustment preferences, and because some parts will loosen up after time, adjustment instructions for wheels and headsets (the two most common components to cause rattles) are given below.

WHEEL ADJUSTMENT

Proper axle screw adjustment depends on rider preference.

- Riders that prefer a highly “dialed” sound (no rattles) should tighten their axle screws until axles, spacers, and bearings no longer rattle.
- Riders that care most about speed should tighten their axle screws all the way then loosen a quarter turn at a time until their wheels spin as desired. Its more likely for rattles to be heard when wheels are adjusted for maximum speed.



Tire Pressure:

For Dirt Scooters, tire pressure should be adjusted to suit terrain. Low pressure (10-20psi) decreases speed but increases traction. High pressure (>40psi) does the opposite. Never exceed the maximum pressure recommended on either tires or hubs.

HEADSET ADJUSTMENT

The trick to adjusting headsets is to make them tight enough to remove any play (lateral movement) from the system, but not so tight that the bars don’t spin freely or smoothly. High-end threadless headsets with sealed bearings such as the Royal Crown Threadless Headset are easier to adjust than entry level threaded headsets because the precision of the bearings is much higher. Threaded headsets can be upgraded to Threadless headsets, but additional parts are required (i.e. Threaded forks and a compression system such as an SCS Clamp).

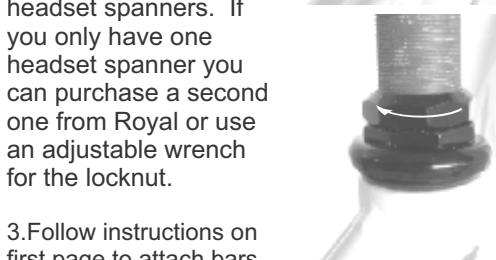
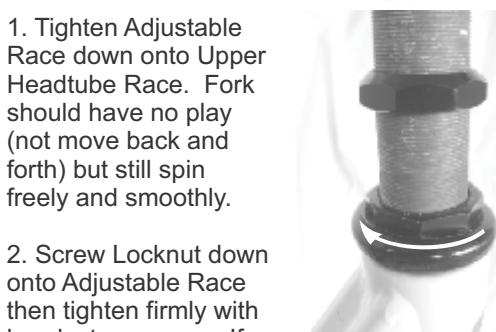
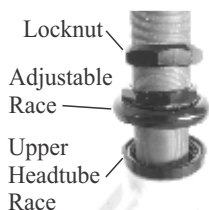
THREADED HEADSETS

Note: handlebars have been removed from this sample to better show the headset parts. It is possible to tighten headsets without removing handlebars.

1. Tighten Adjustable Race down onto Upper Headtube Race. Fork should have no play (not move back and forth) but still spin freely and smoothly.

2. Screw Locknut down onto Adjustable Race then tighten firmly with headset spanners. If you only have one headset spanner you can purchase a second one from Royal or use an adjustable wrench for the locknut.

3. Follow instructions on first page to attach bars.



VS. THREADLESS HEADSETS

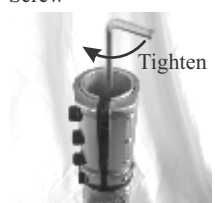
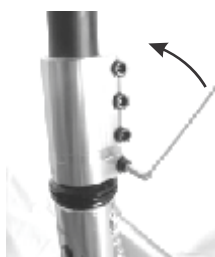
1. Loosen all four SCS Clamp Screw and remove handlebars.
2. Look inside top of SCS Clamp. You will see the head of the SCS Adjustment Screw.

3. Use 5mm hex key to tighten or loosen the SCS Adjustment Screw as needed. Fork should have no lateral play but still spin freely and smoothly.

Note: Check that your SCS Clamp is facing the direction you want it to (i.e. forward) before you tighten the screw. Tip: If you cannot get enough leverage to turn the hex key you can use a wrench to grip the hex key as shown.

4. When you are happy with your adjustment tighten the bottom SCS clamp screw to secure SCS Clamp to Fork.

5. Follow instructions on first page to attach handlebars.



MAINTENANCE

1. Before each ride, check that all hardware is tight (nuts, bolts, screws,..) and all components are functioning properly.
2. Avoid contact with water (especially bearings).
3. Replace wheels when they become worn or uneven - www.royalscooters.com.
4. Replace bearings if they don’t roll smoothly or become noisy - www.royalscooters.com.

WARRANTY

ROYAL CONSUMER WARRANTY POLICY:

ROYAL SCOOTERS WARRANTS PRODUCTS AGAINST DEFECTS IN WORKMANSHIP AND/OR MATERIALS TO THE ORIGINAL RETAIL PURCHASER FOR A PERIOD OF ONE YEAR FROM THE ORIGINAL DATE OF RETAIL PURCHASE. WARRANTY IS LIMITED TO MANUFACTURER'S DEFECTS IN WORKMANSHIP OR MATERIALS. THE WARRANTY IS VOID IF THE PRODUCT IS DAMAGED DUE TO MISUSE OR ABUSE, MODIFICATIONS TO THE PRODUCT, IMPROPER ASSEMBLY OR REPAIRS, OR DAMAGE INCURRED IN COMPETITION OR COMMERCIAL USE. WARRANTY CLAIMS SHALL BE FILED DIRECTLY TO ROYAL SCOOTERS VIA THE ROYAL WEBSITE:

www.royalscooters.com

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