

We thank you for purchasing the TorqueWorks Racing LR001 Dual-sided swingarm. We're confident you'll be happy with its light weight, performance, and design. If you've never torn down or replaced your swingarm before, the directions below will help guide you through the process:

Installing the Swingarm

- 1.** Remove the rear wheel and axle from your existing swingarm. If you are using a TT or NF swingarm, don't forget the 3mm and spring screw that goes through the axle for tensioning.
- 2.** Disconnect the lower shock mount from the swingarm by loosening the setscrew underneath the swingarm and sliding out the shock mount pin.
- 3.** Remove the shock and upper mount by removing the two 3mm screws from the tail plates.
- 4.** TT motorcycle owners: remove one of the E-clips from the upper shock post, take out the post, reinstall the E-clip, and reinsert the post back into the upper shock mount, outside the E-clips. Use the included rubber tubing to keep the upper shock mount against the E-clip.
- 5.** Loosen the setscrews that secure the front sprocket and spur gear mount to the layshaft.
- 6.** Depending on the model you have, remove the two E-clips or 3mm screws/washers from the ends of the layshaft. You should be able to start to slide the layshaft out from one side, but don't do that just yet. If the layshaft does not want to slide, you might need to fully remove the setscrews from the front sprocket and spur gear mount.
- 7.** Remove the two screws that secure the right side layshaft mount to the right chassis plate and set aside along with the 6x13mm bearing. Note the number of and position of the spacers/washers used between the bearing and spur gear mount and set aside.
- 8.** Using a long screwdriver (no more than 6mm diameter), push the layshaft out from the left side to the right side. When the tip of the screwdriver reaches the spur gear mount, pull the layshaft out the rest of the way from the right side. This will keep the front sprocket, spacer, and chain assembly intact. Note which way the layshaft goes.
- 9.** Remove the spur gear mount, noting its orientation.
- 10.** Mount the lower shock mount to the TorqueWorks Racing swingarm with the 3x30mm screw. A dab of threadlock compound on the screw is recommended.
- 11.** Withdraw the screwdriver from the left side enough to remove the existing swingarm, and put the TorqueWorks Racing swingarm in its place, carefully working the shock and upper shock mount post into place.
- 12.** Replace the layshaft from the right side, letting it push the screwdriver back out. You may have to wiggle the screwdriver a bit to get the layshaft through some of the left side spacers.
- 13.** Replace the spur gear mount, spacers, and the right side layshaft mount. Replace the layshaft mount screws and the two screws or E-clips on the end of the layshaft.
- 14.** Tighten the setscrews for the front sprocket and spur gear mount, making sure to tighten them down on the flat spots on the layshaft.
- 15.** Fasten the upper shock mount post to the tail plates.

Installing the Axle

- 1.** Remove your old axle from the rear hub.
- 2.** Insert the TorqueWorks Racing axle through the left (sprocket side) of the rear hub.
- 3.** TT Rear Brake Users, go to step **5**. If installing on a bike with no rear disc brakes, use one of the two included aluminum spacers on the exposed axle, then install the removable end-cap.
- 4.** Hold the wheel/axle assembly horizontally and place it centered above the swingarm to place the chain on the rear sprocket, and then slide the axle between the two arms. If either the axle is too long or part of the axle is exposed between the removable end-cap and the spacer, then the wrong spacer was used. Replace with the other one.
- 5.** In installing a TT rear brake, do not use any of the included spacers or the removable end-cap. Hold the wheel/axle assembly horizontally and place it centered above the swingarm to place the chain on the rear sprocket, drop the axle below the swingarm to slide the brake mount on the axle, then raise the axle up between the arms. Depending on your rear hub, 6mm shims or washers might be needed between on the axle between the rear brake mount and the end of the axle.
- 6.** Secure the axle with two 4mm screws and washers. Because of the wide face of the axle end-caps on both sides, no tensioning screw/spring is needed.

Notes: If additional shimming or spacing is needed on the layshaft or axle, use Traxxas 3981 6x9.5x.05mm Teflon washers. Chain tension should be loose enough to let the wheel spin free, but not so loose as to touch the swingarm. We recommend the Alleven RC's Microdrive chain/sprocket setup for best performance.

Happy Riding!
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