

Easy Folding & Rolling setup – an EVOLVE TRIKES TECHNICAL GUIDE

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This guide is for trikes employing Evolve folding technology. You don't need to be a technical genius, a gymnast or a weightlifter to fold these trikes in under 10 seconds if these guidelines are followed. The trike should have been set up to the Toe-in Adjustment guide.

Quick Folding setup.

For quick folding several items need to be set correctly:

A. Quick Release (QR)

These measures mean the QR does not require adjustment when folding/unfolding:

- QR body is inserted from the left side with the lock nut on the right.
- Adjust QR nut for firm closing when QR is engaged.
- Orient the QR with the lever down when unlocked.
- The QR has a C-section sleeve inside the hinge which:
 - (a) Holds the QR axially to allow the bevelled leading edges of the over-clamp channel to easily slide into the QR.
 - (b) holds the QR rotationally so the QR lever always remains in the same orientation for quick operation.

B. Seat Pivots

For easiest folding:

- All seat pivots should have no free-play other than rotational.
- The seat arm pivot should be tightened to remove any slack but have only slight rotational friction.
- The seat rear pivot and the seat stay pivots should be tightened to provide some rotational friction but not sufficient to prevent it turning under its own weight.

C. Pull cord, Hose

- The pull cord length should be adjusted to be almost tight when the trike is erect.
- The pull cord hose should have a shock cord through it attached from the hose front to the frame eyebolt.
- The shock cord should retract the hose rear end back to the eyebolt.
- The shock cord should be of sufficient diameter to encourage any slack cord to be bunched behind the hose.

Rolling the Folded Trike:

As you can see in our videos, the folded trike can be rolled forward and guided easily by using a guide strap or rack-top bag handle.

WARNING: The folded trike must not be forced backwards. The freewheel in the rear hub allows the folded trike to be rolled forward indefinitely, but rolling the rear wheel backwards can drive the cranks to usually jam a pedal against the rear of the right tire causing high stress on the chain path components. [& if an E2, reportedly sometimes bending/breaking the more vulnerable chain tube brackets.]

Folded Trike Rolling Technique:

Roll the trike forward using the guide strap. When direction change or reversing is needed briefly raising the rear wheel just clear of the ground before again setting it down.

AVOID rolling the trike backwards on the rear wheel (unless the rear wheel has a hosen Smart Hub).
AVOID LIFTING THE REAR WHEEL HIGH OFF THE GROUND when rolling forward as the wheel angles can inhibit rolling, producing high resistance or "waddling".

If the folded trike does not roll forward easily and true then the folded toe-in will need to be set up (see the Toe-in Adjustment guide).

A rear guide strap or rack-top bag handle allows the folded trike to be guided easily over uneven ground. If a guide strap was not provided a loop of 19mm(3/4in) flat webbing (from outdoor stores) can be attached to the rear of the rack or seat. The loop should be set at a height to comfortably roll the trike without having to stoop down, and to easily lift the rear wheel just clear of the ground.

Lifting the Folded Trike

The design of the trike means that the trike's weight is approximately balanced around handlebars. So the easiest most ergonomic lifting can be done by lifting with the handlebar grips.

If lifting is needed (e.g. to put into a car) it is easiest using the handlebar grips (balanced lift).