



COMPATIBILITY GUIDE



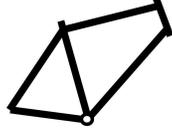
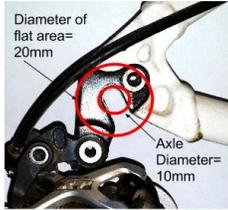
ATTENTION DIY'ers, makers, builders, hackers, tinkerers, fabricators, and bicycle mechanics...the Leap FreeRadical is the project for you! By taking on the project of installing a Leap on your bike, you'll not only create your dream cargo- and passenger-hauling machine, but your feedback on the experience will also help us understand how we can better tweak the Leap to fit the broad range of bikes calling out for cargo conversion. Your Leap conversion may require some creative wrenching, trips to the hardware store for *just* the right bolt and maybe even some hacksawing, filing, and grinding to optimize the parts or fit.

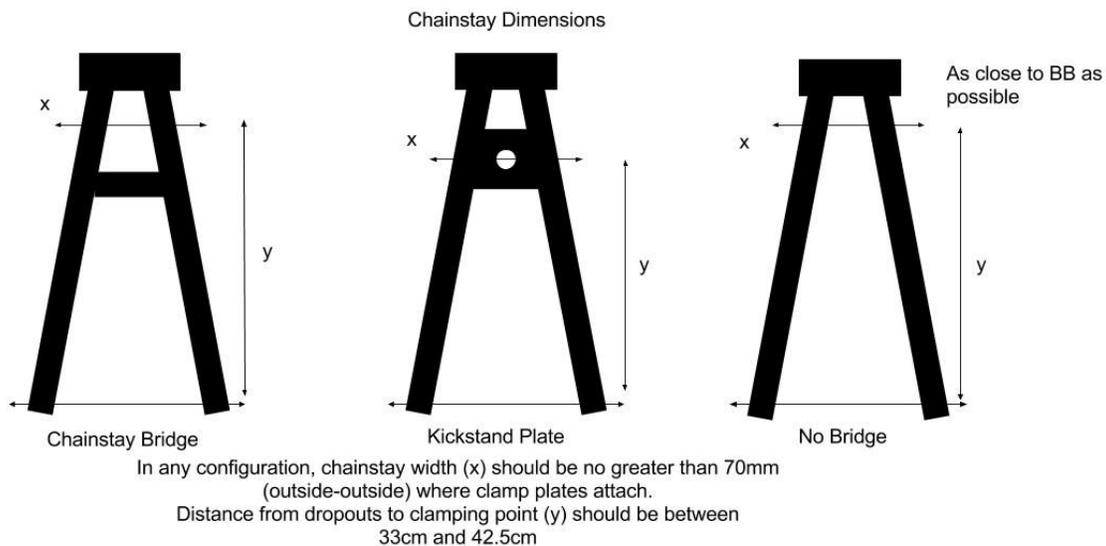
The Leap will work best with bikes that meet the specifications detailed below. Even if your bike meets all of the specifications, the Leap kit might still require tweaking and/or modification to attach properly and run smoothly. On the other hand, if you've got a cool bike (cruiser? fat bike? tadpole trike?) that doesn't meet all of the requirements, but you're up for the challenge of creating your dream machine, the Leap is a fantastic DIY cargo bike platform to build upon!

If you're up for it, read on...



Frame Specifications

Frame type	Rigid frame with steel, aluminum, or titanium construction. Not intended for use with carbon fiber frames or full suspension bikes.	
Rear dropout spacing.	135mm, symmetrical (not offset from the centerline of the bike).	
Rear dropout type	Open dropout (vertical, horizontal, or track end) for 10mm axle, with a flat area 20mm in diameter around outside of dropout (see picture). Bikes with hooded dropouts or other projections that extend more than 17mm from the interior face of the dropout may interfere with the leap mounting points/frame depending on their location.	
Chainstay width at clamping point	70mm - or will require the fabrication of wide "adapter plate".	See diagram below (x)
Chainstay length	Distance from dropout to forward clamping point: 33cm to 42.5cm	See diagram below (y)

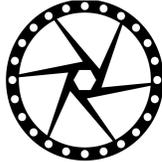


Note: Leap will affect your bike's frame geometry. In addition to lengthening your wheel base, it may also change the bottom bracket height, head tube angle, and seat tube angle.

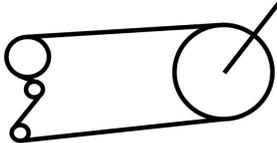


Wheel Specifications	
Supported wheel sizes	20", 24", 26", 650b, 27.5", 650b+, 700c, 29", 29+
Maximum tire width	3"/75mm
Rear axle dimensions (Quick Release or bolt-on axles only. Not compatible with thru-axle rear wheels).	10x135mm
Brake type	Disc brake compatible

- Leap is designed to work best using the same size wheels as the bicycle to which you're connecting the Leap. See our [article on wheel sizing](#) for more information.

Brake Specifications	
Brake type	Disc Brake Only, 74mm Post Mount
Minimum Rotor Size	180mm

- Bikes with rim brakes can be converted, but will need a disc brake compatible rear wheel and a rear disc brake to complete the conversion.
- Conversions with hydraulic disc brakes will need to purchase and install a longer hose for the rear brake (not provided by Xtracycle).
- Refer to brake manufacturer specifications for required spacers if using a rotor larger than 180mm.

Drivetrain Specifications	
Supported drivetrain types	Front and Rear Derailleurs, Internally Geared Hubs*, Singlespeed*
Number of derailleur gears	up to 3 front, up to 11 rear**

- *Chain-driven internally geared hubs and single speeds will work with a spring loaded chain tensioning device (e.g. [Surlly Singelator](#), [Paul Melvin](#)).
- **Bikes with 11 speeds, wide tires, and/or small (20 or 24" wheels) may experience some chain/tire clearance issues. See our [article on wheel sizing](#) for more information.
- **Chain extensions for 11 speed drivetrains not offered by Xtracycle at this time.
- Not compatible with coaster brake or fixed gear drivetrains.



Leap Package Includes:	Leap Frame with all mounting hardware
	Xtra-long rear derailleur cable and housing
	Xtra-long rear brake cable and housing (for mechanical disc brakes)
	LT2 V-Racks
	RackLocks
	FlightDeck LT2

Accessories	The Leap is designed to use the Xtracycle LT2 system of cargo and passenger carrying accessories.
Cargo Accessories	X3 CargoBay , X3 SlingSet , X3 HiViz Lids
	U-Tube LT2 (Leap Specific)
	KickBack 3
	SideCar
	CarryHandle
Passenger Accessories	Hooptie LT2
	Front & Rear Yepp Kid Seat Adapters
	MagicCarpet & Mini MagicCarpet
	Wheel Skirt
Other Accessories	Chain Roller (needed for use with the KickBack)
	Pannier Rail
	Tail Light Bracket
	Chain Extension for 8 , 9 , or 10 speed chains (with 2 quick links)