



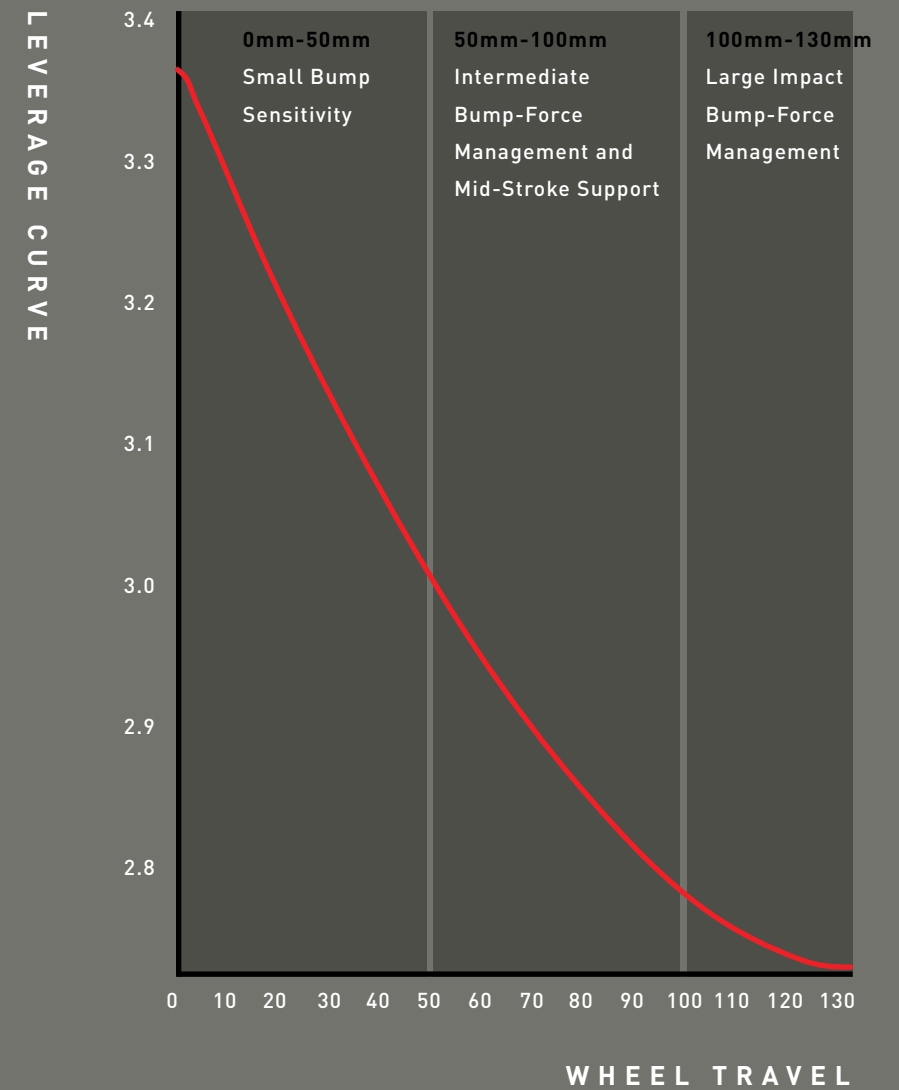
# 2021 STUMPJUMPER SUSPENSION



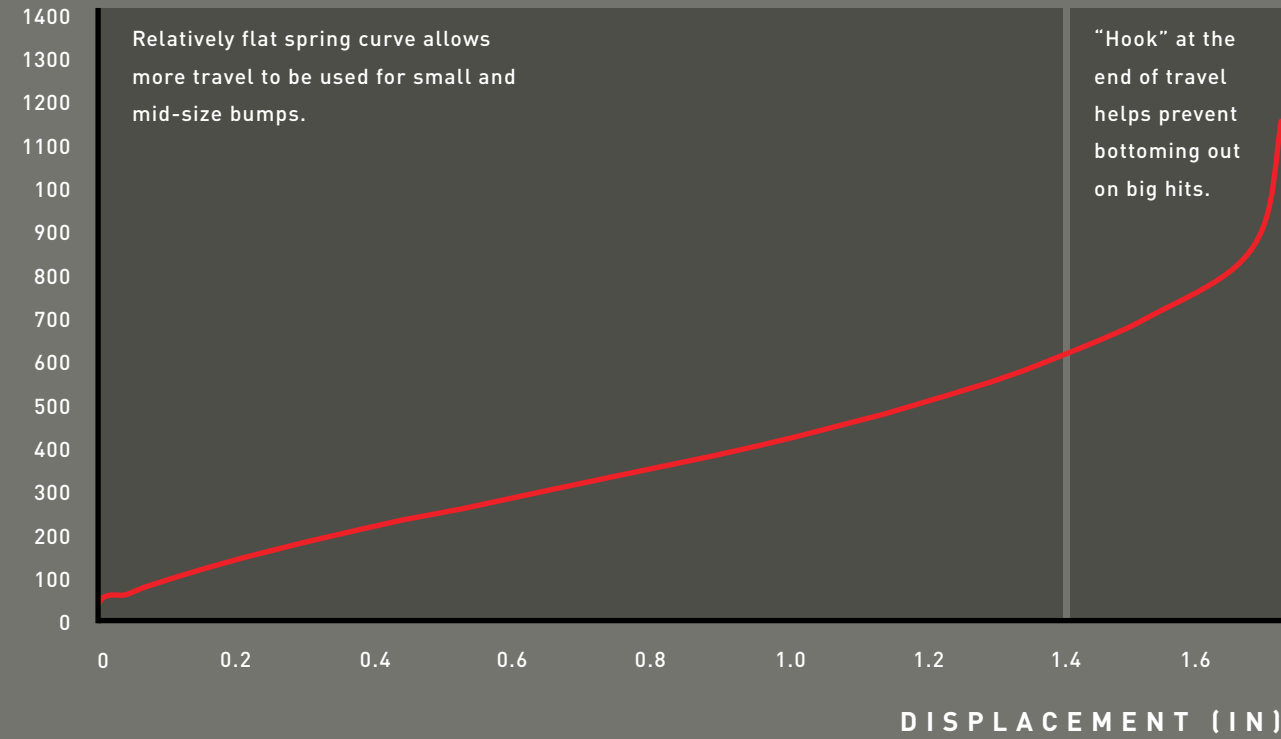
RIDER: CODY KELLEY  
PHOTOS: JUSTIN OLSEN

## LEVERAGE RATE OF RIPPING

The Stumpjumper has a very progressive leverage rate, with a steep slope. This helps achieve a lively, snappy ride, with generous utilization of travel and a good platform to pedal against through the mid-stroke, and great bottoming resistance at the end of the stroke. These are exactly the characteristics you want for a mid-travel trail bike that's designed to see full-size trail duty.



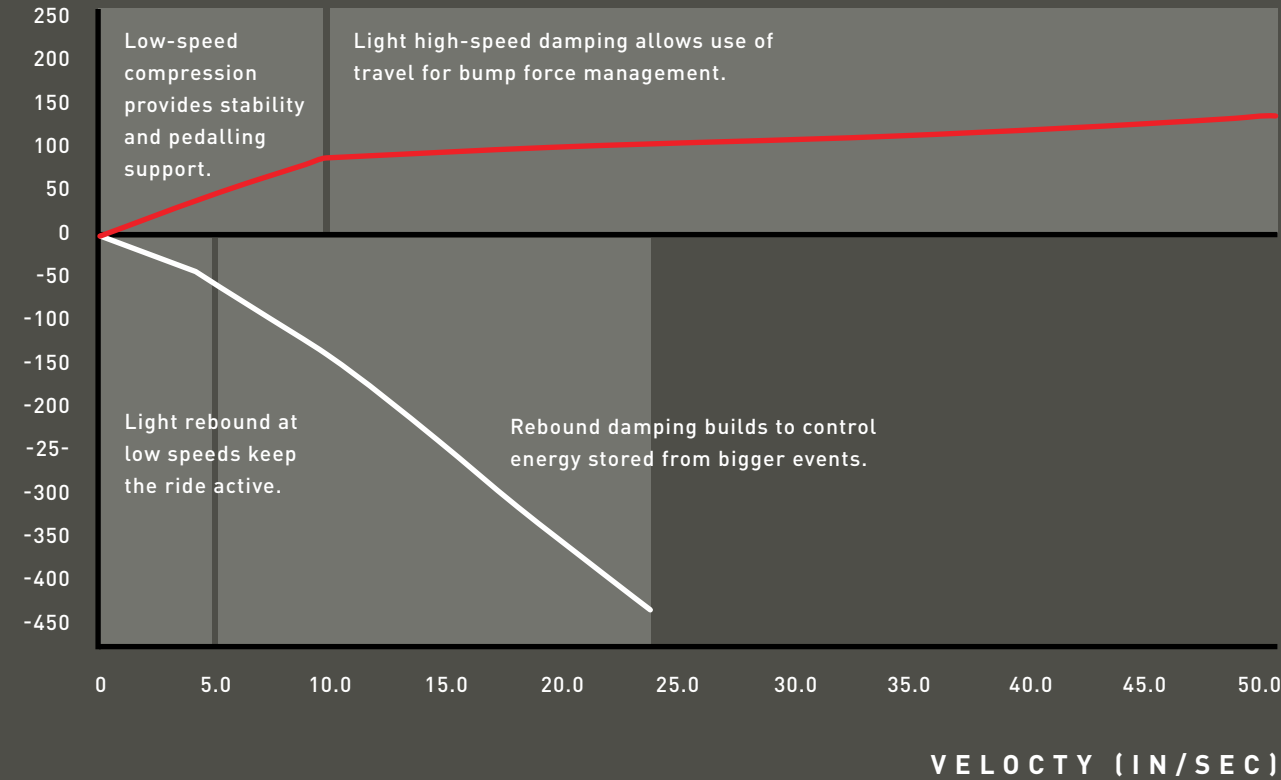
FORCE (LBS)



### SPRING TUNING

To work in concert with our steep leverage ratio, we used a larger volume spring than stock to provide a more gradual spring ramp. This spring rate enables more usable travel in trail conditions we ride in most, while still maintaining progression for good bottoming resistance.

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### COMPRESSION DAMPING

Our goal was excellent pedaling performance and mid-stroke pedaling support without sacrificing bump performance. To achieve this, we used Fox's Digressive piston to add low speed compression without over-producing on high shaft speeds normally associated with square edge bumps. We tuned the piston very light in order to give just enough support but still remain active and excel in rough terrain.



### REBOUND DAMPING

We wanted to keep the shock active without packing, and still allow for a responsive shock, as well as provide the rebound support needed for larger events where the spring stores a lot of energy. That's a big ask. To achieve that, we created a custom progressive rebound tune. This keeps the rebound quick and responsive toward the top of the stroke, but ramps up for deep stroke support where the spring is storing its maximum energy.



The combination of the progressive leverage ratio and mildly progressive spring rate results in precisely the ride we dreamed of for our mid-travel trail ripper. What you feel on the trail is a lively, snappy ride for the first two-thirds of travel, then - thanks to the increasing spring rate - excellent bump force management and resistance to bottoming in big events.

To ensure sufficient rebound with fast, deep hits, the progressive rebound damping catches big impacts. But, because rebound damping is lighter through the mid-stroke, it comes back quick so it's ready to handle the next impact.

