



Top Notch Bicycle Frames

PO BOX 2631
Petaluma, CA 94953
PH/Fax 707-775-2453
info@soulcraftbikes.com

Crank and chainring set up on Soulcraft mountain and Dirt Bomb frames

If you're running a mountain crank with an "integrated" spindle and crank (where the spindle is bonded/welded/pressed into one of the crank arms), then you don't have a choice on spindle length. Most of these types of cranks (Shimano, 15G, Race Face, TruVativ, etc.) are designed with a 49.5mm to 51.5mm chainline which will work fine on all of our frames with standard 22/32/44 gearing or a 32T or 34T single ring.

If you're running a square taper crank/BB then it depends on the brand of crank and size of chainring. We recommend the White Industries ENO crank with either a White Industries or Phil Wood BB, or the Paul mountain crank with a Campy BB or Phil Wood Campy BB. Keep in mind all Soulcraft BB shells are 68mm wide. White Industries designs their rear hubs around a 47.5mm chainline (centerline of frame to center of freewheel teeth), although as I write this they are working on a hub with a 51.5mm chainline. To match the 47.5mm chainline they recommend a White 113mm or Phil Wood BRS13S 113mm spindle on their ENO cranks. Keep in mind that most other singlespeed hubs are designed around a 51.5mm chainline, so if you're running a White Industries crank with a Paul or Phil hub, you will want to run a White 121mm or Phil BRS23S 122mm spindle to get the chainline to match. On the Paul cranks, you need to run a Campy BB like the BB6-VL1G 111mm or the Phil Wood BRS10R 110.5mm, both of which give you a 51.5mm chainline. If you're running a cassette type rear hub with a single cog and spacers then you have free reign on chainline as you can adjust the cog side to side with the spacers.

The other consideration is chainring size. With a 113mm BB, you can only run a 32T on our frames. Any bigger (34T or 36T), and you will need to use a longer spindle such as a Phil BRS16S 116mm or the longer spindles mentioned above. The resulting chain lines with a White Industries ENO crank would be 49mm for the 116 spindle or 51.5mm for the 121/122 spindles. So what happens when you want to run a 34T ring on your ENO crank along with a White Industries ENO rear hub? This would mean a 49mm or 51.5mm chainline on the crank (with a 116mm or 121/122mm spindle) but a 47.5mm chainline for the hub. That's a misalignment of 1.5mm or 4mm, which, depending on who you talk to, is either the end of the world or no big deal. Since you're talking to us right now, we'll say that we don't think it's a huge deal. If you run a 3/32" 8 spd chain (as all singlespeeders should), the chain will have no problem dealing with the difference. If you try to run a "singlespeed" chain, which is not designed to shift, you will have noise and possibly derailment problems because those chains are not designed to flex from side to side. When using any other square taper crank than a White Industries, we can't really help you. We're just not familiar with all the brands, chainlines, offsets, etc, although most are designed around either a 47.5mm or 51.5mm chainline. Your best bet is to see what their specs are for chainline and choose the appropriate length spindle to achieve your target chainline.