

● Pedal

aluminium
cnc machined and forged
mainly or lasercut

steel
pressed steel

Consumer cost
low £10 high £70

● Crank

aluminium
forged, cnc machining

steel
pressed/forged and welded

carbon
carbon layup moulded

Consumer cost
low £300 high £800

● Chain Ring

aluminium
cnc machining /hydraulic press

steel
cnc machining or pressed

Consumer cost
low £6 high £100

● Bottom brackets

aluminium
machined

Consumer cost
low £20 high £300

● Cassettes

aluminium
cnc machining

steel
stamped and pressed

Consumer cost
low £10 high £70

● Derailleur

mixed materials
multiple small parts

Consumer cost
low £5 high £700

● Hub

mixed materials
cnc machined or moulded,
free hub bearings

Consumer cost
low £10 high £70

● Seat Post

aluminium
hollow forged, cnc machined

Consumer cost
low £5 high £600

● Seat Post Clamp

aluminium
forged

● Saddle

carbon
stainless steel rails/nylon
upper

● Handlebar

aluminium
butted aluminium tubing -
cnc bending machine

carbon
moulded

Consumer cost
low £100 high £600

● Brake Levers

aluminium

composite carbon

Consumer cost
low £10 high £120

● Frame

aluminium
cutting and welding of
tubing

carbon
steel

Consumer cost
low £400 high £2000

● Rim

aluminium
extruded aluminium box
sectioned, welded joint or
sleeve jointed pinned and
welded

carbon
carbon layup

Consumer cost
low £300 high £3000

● Brake Discs and pads

mixed materials
cnc machining

Consumer cost
low £3 high £60



<u>Frog Bike Components</u>	<u>Current Brand</u>	<u>Material</u>	<u>Volume per bike</u>
Headset	Neco	Aluminium	1
Spacers		Plastic	3
Top Cap	Neco	Aluminium	1
Seat Post		Aluminium	1
Seat post Clamp		Aluminium	1
Saddle		Aluminium rails	1
Handlebars		Aluminium	1
Handlebar Bung		Plastic	2
Gear Shifter			1
Brake Lever	Tektro	Aluminium	2
Grips		Plastic and aluminium locking rings	2
Brake Calliper	Tekto	Aluminium	2
Tyre	Kenda	Rubber	2
Inner Tube	Kenda	Rubber	2
Valve cap	Kenda	Plastic	2
Spokes		Steel	48
Spoke Nipples		Steel	48
Quick Release skewer	Quando	Aluminium	2
Hub	Quando	Aluminium	2
Rim		Aluminium	2
Wheel Reflectors		Plastic	4
Crankset		Aluminium and steel chain ring	1
Bottom Bracket	Thun	Plastic and Steel	1
Chain Guard		Plastic	2
Cassette		Steel	1
Pedal		Rice Husk	2
Rear Derailleur	Shimano or Microshift	Aluminium	1
Chain	KMC	Steel	1
Frames		Aluminium	1
Forks		Aluminium	1





- frameset**
- 1 fork
 - 2 frame
 - 3 hanger
 - 4 headset
 - 5 spacer
 - 6 top cap
 - 7 seat post
 - 8 seat post clamp
 - 9 saddle

- handlebar assembly**
- 11 handlebars
 - 12 gear shifter
 - 13 brake lever
 - 14 gear cable
 - 15 brake cable
 - 16 grips
 - 17 brake calliper
 - 18 stem

- wheel**
- 10 tyre
 - 19 spoke
 - 20 quick release skewer
 - 21 spoke nipple
 - 22 hub
 - 23 rim
 - 24 valve

- chainset**
- 25 crankset
 - 26 bottom bracket
 - 27 chain
 - 28 cassette
 - 29 pedal
 - 30 rear derallieur

