

1395  
4/10

# brodie research

and technology inc.

## DEALER PRICE LIST

Season 91

CATALYST: Frame & fork.....	\$ 720.00	(1950)
XT.....	\$1260.00	
SOVEREIGN: Frame & fork.....	\$ 750.00	(1080)
XT.....	\$1290.00	
GATORBLADE FORK: powder coated black, available with 1" or 1 1/8" steerer, w/65mm of thread, 165/185/215/245mm.....		
	\$129.00	
HANDBUILT STEM: internal cable routing 130/140/150mm, hand painted, 5 or 15 degree rise.....		
	\$56.50	
CUSTOM HANDBUILT STEM.....		
	\$79.75	
BRODIE LOVEHANDLES: (black/pair).....		
	\$22.95	
	10+.....	\$21.95
	30+.....	\$19.95
BRODIE BRAKE BOOSTER: 68g. inc hardware.....		
	\$14.75	
	10+.....	\$13.75
	30+.....	\$11.75
BRODIE SUPERLIGHT BARS: 168g. ....		
	\$19.50	
	10+.....	\$18.50
	30+.....	\$16.50
TITANIUM BARS: 165g. 4 degree bend, .1" bulge.....		
	\$80.00	
BRODIE TITANIUM HARDWARE:		
	LIGHTning Kit (complete set).....	\$57.50
	10+.....	\$55.75

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BRODIE FRAME SERVICE

Brodie Pump Peg.....	\$20.00
Generic Pump Peg.....	\$12.00
Fender Eyelets.....	\$20.00
Rack Braze-ons.....	\$20.00
Hite Rite Braze-ons.....	\$20.00
Frame & Fork Alignment.....	\$55.00 < less
Change Brake Position.....	\$50.00
Frame Reconstruction.....	CALL

ANY COMBINATION OF SERVICING SUBJECT TO \$15.00 CHARGE. PAINT EXTRA

TERMS: C.O.D. or 3% prepaid. F.O.B. Blaine.



# **brodie research**

*and technology inc.*

Brodie Research is pleased to announce that starting in 1991 all orders can be placed directly to our office.

Brodie Research, builders of high quality mountain bikes, now offers you direct ordering for Brodie products. We manufacture a range of specialty mountain bikes and components, designed and tested with performance in mind and with no compromise to quality.

This year you can choose from two bicycle models, the Catalyst, built with Tange Concept tubing, and the Sovereign made of Tange Logic tubing. Both are equipped with a brodie Gatorblade composite fork and are available in your choice of colors. We offer them as frame and fork or as complete bikes, with hand-built wheels, top mount XT shifters and rear seat-stay mounted "U"-brake with brodie Brake Booster and brodie Love Handles handle-bar extentions.

Also available: Custom (or non-custom) frame painting by The Art Dept, including frame preparation and inspection. Full frame repair and upgrading services including alignments and all listed options. And of course tube and drop-out replacements for all makes of bikes. Basically, brodie research offers you all manufacturing facilities of the highest quality, second to none, direct to you.

All orders are shipped via UPS from our warehouse in Blaine, Washington.

The advantages to you are obvious, the savings to your customer are sure to satisfy.

Enclosed you will find a current price list as well as technical information on Brodie Research products.

Looking forward to being part of your prosperous season.

Davis - if you need further info, just call! LZ



# sovereign

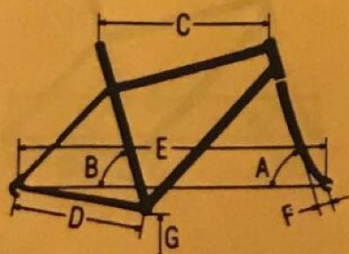
THE HOTTEST RACING BIKE FOR 1991

Exclusively designed for the enthusiastic rider, the SOVEREIGN represents the finest in mountain bike construction.

Hand-Built by Paul Brodie using Tange Logic tubing, TIG welded to the proven brodie geometry, and equipped with the Gatorblade fork, the SOVEREIGN is designed to perform in the most arduous conditions with great agility.

- Frame Tubing: Tange Logic. TIG weld.
- Fork: Gatorblade. Powder coated black. 1 1/8 steerer.
- Fittings: Slotted cable stops, 2 water bottle bosses.
- Colors: DuPont Imron Paints.
- Components: Shimano XT. brodie Love Handles. brodie Brake Booster. Selle Italia Turbo saddle.
- Stem: brodie Handbuilt ICR, 130mm-140mm-150mm.
- Wheels: Handbuilt using Wheelsmith spokes and Araya RM-17 rims.
- Tires: Specialized Ground-Control.
- Options: Litening Kit.  
brodie Pump Peg.  
Choice of extra braze-ons.  
Custom Paint by The Art Dept.

Geometry:



	LBS	A	B	C	D	E	F	G
16"	6.0	70.5	74	22.0	16.75	41.75	1.75	11.8
18"	6.1	70.5	74	22.9	16.75	42.40	1.75	11.8
19"	6.2	70.5	74	23.2	16.75	42.75	1.75	11.8
20.5"	6.3	70.5	74	23.6	16.75	43.25	1.75	11.8

\*Specifications subject to change without notice\*



# ***catalyst***

HIGH END PERFORMANCE. THE ULTIMATE FROM BRODIE

Using Tange Concept tubing, Paul Brodie has built a bicycle exemplified by Mountain Bike Action as having "...performance and design you can't buy anywhere else." The Catalyst, equipped with the Gatorblade fork, has proven itself to be one of the hottest racing mountain bikes available; an extremely rugged frameset.

Frame Tubing: Tange Concept. TIG weld.

Fork: Gatorblade. Powder coated black. 1 1/8 steerer.

Fittings: Slotted cable stops, 2 water bottle bosses.

Colors: DuPont Imron Paints.

Components: Shimano XT. brodie Love Handles. brodie Brake Booster. Selle Italia Turbo saddle.

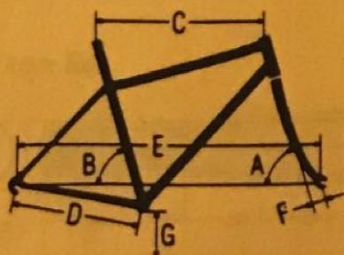
Stem: brodie Handbuilt ICR, 130mm-140mm-150mm.

Wheels: Handbuilt using Wheelsmith spokes and Araya RM-17 rims.

Tires: Specialized Ground Control.

Options: Litening Kit.  
brodie Pump Peg.  
Choice of extra braze-ons.  
Custom Paints by The Art Dept.

Geometry:



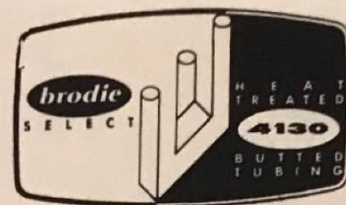
	LBS	A	B	C	D	E	F	G
16"	6.0	70.5	74	22.0	16.75	41.75	1.75	11.8
18"	6.2	70.5	74	22.9	16.75	42.4	1.75	11.8
19"	6.3	70.5	74	23.0	16.75	42.75	1.75	11.8
20.5"	6.5	70.5	74	23.5	16.75	43.25	1.75	11.8

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## Prestige Concept Tubes Advance ATB Performance.

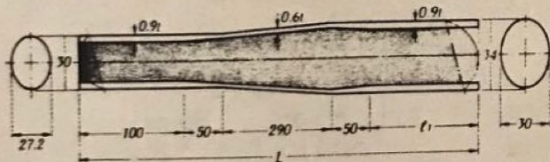
Introducing Prestige Concept MTB—a new-generation tube set for the high-performance off-road bicycle. Prestige quality and a new tube shaping and butting Concept realize a breakthrough in off-road frame performance.

In addition to double butting, Prestige Concept MTB's top and down tubes feature oval construction with enlarged outer diameters at the head tube. These enlarged ovals offer greater resistance to shock loads and significantly increase frame strength.

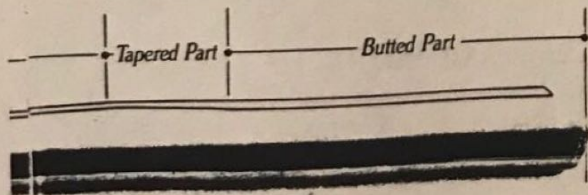
The seat tube features an enlarged oval shape at the bottom which strengthens and stiffens the bottom bracket. The seat tube's round top end uses a unique new "bulge butt" in which the beefy 1.3mm wall thickness is added to the outside diameter of the tube for added strength.

Prestige Concept MTB's variable diameter tubing offers a higher level of performance and a distinctive new look for off-road bicycle frames. It's a reflection of Tange's continuing commitment to improving the off-road bicycle.

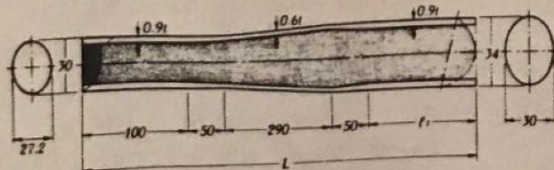
Top Tube



Prestige Concept uses an oval-shaped top tube featuring an enlarged outer diameter at the head tube end. The high-tech appearance is further enhanced by greater frame strength with minimum weight increase. (wall thickness: 0.9/0.6/0.9mm)



Down Tube

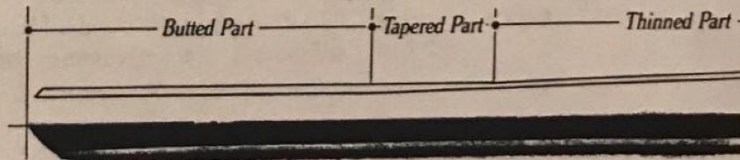


Prestige Concept down tube features the same configuration as the top tube. Its oval shape, with a larger outside diameter at the head tube end, improves frame strength and adds a distinctive new look. (wall thickness: 0.9/0.6/0.9mm)

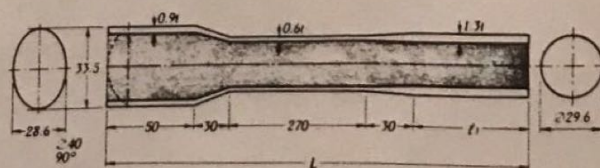


"Cr-Mo" Composition (SAE 4130)

C	Si	Mn	Mo	S	P	Cr
0.33%		0.6%		0.04% Max.		1.0% Max.
	0.35%		0.25%	0.035% Max.		



Seat Tube



The Prestige Concept seat tube uses an enlarged oval at the bottom bracket and a unique bulge-butted round end at the top tube end. Bulge butting is a new process that adds extra wall thickness to the outside tube diameter. (wall thickness: oval 0.9mm/center 0.6mm/bulge butt 1.3mm)



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## **Product Description**

**GATORBLADE FORK:** Aluminum crown and drops married to custom drawn chro-moly blades make this composite fork light and super strong. Available for 1" or 1 1/8" steer tubes. 165/185/215/245 mm. 65 mm of threads. 1 3/4 Rake. 2.1 Lbs.

**BRODIE STEMS:** Hand built stock or custom stems with internal cable routing, light and trick. TIG welded. Single pinch bolt. 5 or 15 degree rise.

**LOVE HANDLES:** Forged aluminum bar extensions. Very popular, a definite help for climbing and a more comfortable position on those long arduous rides. Black finish with allen key. 210 grms.

**BRAKE BOOSTERS:** A must for all U-brakes, prevents spreading of the brake pivots therefore increasing brake efficiency. Lighter and stronger than U-II. 68 grms.

**BRODIE SUPERLITE BARS:** Lite aluminum butted bar, perfect compliment to BRODIE STEMS. 168 grms. 4 Degree bend. 22" Long.

**BRODIE TITANIUM BARS:** Ultra light, shock absorbing, custom designed, very different, the ultimate for the lightness freak. "3/2.5" Titanium. 165 grms. 4 Degree bend. 1" Bulge.

**BRODIE LUBRICANTS:** New for '91, high quality white lithium grease for professional use only. And for hard core underwater riding, a red, highly fibrous grease impervious to water washout and salt corrosion.

**BRODIE TITANIUM HARDWARE:** Just in, Cantilever Brake Bolts, Brake Lever Kits made up of 2 Slotted Cable Adjusters and 2 Fastening Bolts, Stem Kits made up of 1 Handlebar Binder Bolt and 1 Expander Bolt, Seat-post Binder Bolts and 5mm Water Bottle Bolts

**BRODIE T-SHIRTS:** Wild at heart.

**BRODIE WATER BOTTLES:** Specialized bottle, Brodie graphics.

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**BRODIE RESEARCH FRAME SERVICES:** Complete frame and fork servicing, upgrading and overhaul. Repair done on all makes of lug-less bikes. Braze-ons of all sorts added on or removed. Frame alignments and stress inspections.

**THE ART DEPARTMENT:** The paint dept, headed by Art Tyler, uses only durable IMRON paints. You can choose from any combination of designs, mixes and matches meticulously applied.



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## GATORBLADE TECH SHEET

The Gatorblade fork has now been available for close to two years and after some radical changes we are pleased to present what we believe to be a superior product than any other composite fork on the market.

Using top quality tubing and a 6061-T6 aluminum extrusion Brodie Research has designed a composite fork that has virtually no flex yet offers precision steering and smooth shock absorption.

The crown is CNC machined to exacting tolerances. It is then heated to 375° F in a special oven, removed and the steering column inserted. Within seconds, the crown and steering column become permanently, thermally bonded.

The fork blades are cut to length, and a 6061-T6 recessed aluminum plug is press-fit into the top, to be drilled and counterbored for the socket head allen screw. The brake bosses are then brazed on and the blades get a black powder coat for a long lasting finish.

The crown and steering column are now threaded from each side, and the fork blades are tightened with precision torque into place using 12.9 grade 8mm socket head allen screws with a thread locking compound. The crown is slightly smaller than the fork legs, thus, when the legs are bolted into place, the crown spreads slightly and grabs them in a vise-like grip. The custom drop-outs are CNC machined from 2024-T3 aluminum and are bonded in at this point.

The fork is now complete except for a 4 step alignment process. A lot of work goes into it but we feel that the quality is clearly evident after the first ride.

The evolution of the Gatorblade has come by extensive off-road testing in all sorts of west coast conditions as well as on our "Fork Flopper". Specially designed by Brodie Research to test the resiliency and strength of forks, this machine has enabled us to pin-point problem areas of a variety of forks. This research has been a great asset towards the conception of the Gatorblade. Today all Brodie mountain bikes come equipped with the Gatorblade and many races have proven its performance and longevity.

The Gatorblade is available in black powder coated blades with natural finished aluminum crown and drops. Custom IMRON finishes on request.



# PAIN'T PRICE LIST:

US 1991

1. STRIP FRAME & FORK	40.00
2. PAINT FRAME AND FORK	73.00
3. PAINT FRAME ONLY	61.00
4. PAINT FORK ONLY	16.00
5. NON-STOCK COLOUR (SEE IMRON CHART)	18.00 *
6. FORK SEPARATE COLOUR FROM FRAME	6.00 *
7. CUSTOM COLOUR FOR FORK	11.00 *
8. DECALS AND INSTALLATION	11.00 *
9. CLEAR COAT FRAME & FORK	25.00 *
10. 2 COLOUR FADE W/ CLEAR COAT	46.00 *
11. 3 COLOUR FADE	59.00 *
12. 2 COLOUR FADE WITH REVERSE SPLATTER	82.00 *
13. 1 COLOUR SPLATTER	23.00 *
14. 2 COLOUR SPLATTER	37.00 *
15. 1 COLOUR SPONGE W/ CLEAR COAT	63.00 *
16. 2 COLOUR SPONGE	84.00 *
17. REAR TRIANGLE MASKED TO MATCH FORK	86.00 *
18. CUSTOM PAINT MASKING (PER HOUR)	45.00
19. AIRBRUSH WORK (PER HOUR)	45.00

\* ADD THIS PRICE TO BASE PRICE OF \$73.00.

All packaging, boxing, and shipping charges extra.

Paint: choose from 27 stock Imron colors:

Orange 5080  
Flame Red 8554  
Purple 75334  
Sky Blue 78387  
Light Blue 5079  
Bright Blue 5205  
Black 99

Med. Blue 42811  
Med. Green 78261  
Light Green 62703  
Lime 5181  
Med. Yellow 224  
Tan 96704  
White 508

Silver Met.44434  
Smoke Grey Met.44489  
Light Violet Met.44491  
Dark Violet Met.44493  
Lt.Cont.Blue Met.44438  
Mariner Blue Met.7446  
Med.Rich Blu Met.44428

Sea Green Met.45024  
Jade Geen Met.14283  
Spanish Gold Met.43820  
Plum Metallic.44481  
Sovereign Blue Met.68125

Plus our own "custom" mix  
- Deep Purple