

SANTANA



QUALITY LIGHTWEIGHT TANDEMS





Investment cast
fork crown and oversized
tandem forkblades.

SOVEREIGN



The Santana Sovereign is our best tandem — uncompromised workmanship, detailing and componentry. Though designed primarily for touring, this Santana continues to win more sanctioned road races than all other brands of tandems combined. The Sovereign features an unmatched combination of efficiency and comfort — the best tandem you can buy.



Hand-brazed construction
and four sets of water
bottle braze-ons.

ARRIVA



The Santana Arriva, introduced last year, has already become the best-selling tandem ever. Why? Because it has the features found on expensive custom-built tandems, yet it sells for hundreds of dollars less. Dollar for dollar and feature for feature the Santana Arriva is unquestionably the best buy in a custom-quality tandem.

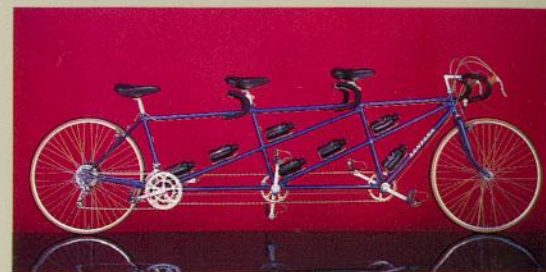
48-spoke wheel and the
Arai RX drum brake with
dual point quick release.

ÉLAN



The Santana Élan is the newest and least expensive member of the Santana family. Like all Santana tandems the Élan features a hand-brazed chrome-moly frameset and a proven component package. Finally, first-time tandem buyers can obtain the quality and dependability of a Santana at a price within their budget.

TRIPLET



ALL-TERRAIN TANDEM



EXPLORER



CHILD-STOKER CONVERSION

With this option you can quickly and easily adapt the rear of the Santana so that a child as young as 3½ years old can ride and pedal from the rear seat. Set-up includes an adjustable bolt-on rear bottom bracket complete with a sealed-bearing spindle, a pair of 127mm alloy cotterless crankarms, alloy pedals, small toe clips with straps, an additional timing chain and chainrings, and a special extra-long rear stem complete with its own set of small taped alloy drop handlebars.

Changeover from adult to child stoker (or vice versa) requires a minimum of tools and five to ten minutes of time. The child stoker attachment will not be required if the child's inseam is at least 5¼" greater than the rear framesize (i.e., a child with a 24¾" inseam can ride the back of a Santana with a 19" rear framesize). Comes completely installed and pretested with all of the parts for rapid changeover to adult configuration. \$300.



Ordering Information

It is easy to obtain your new Santana. We keep nearly 200 finished frames in stock — virtually all of the standard sizes and colors. Assuming the frame of your choice is ready, we can assemble your tandem (with custom component changes if desired) and ship within one week of confirming your order. We ship the tandem to your dealer in a specially-made "trucker-proof" container.

Sizing

If you are uncertain as to which size is best for you, take careful inseam measurements (crotch seam to floor, with pants on and shoes off) and follow these guidelines:

Front. Adequate standover height in front is essential so that the captain can control the bike while starting and stopping. A perfect front size for most riders will be 9.5" less than inseam, and the allowable range will be plus or minus

1.25". If this 2.5" range indicates two of the standard front sizes, then you are advised to consider your preferred riding position while making this decision. If, for instance, you prefer a comparatively upright position, you should lean towards getting the larger frame-size. If, on the other hand, you enjoy the more efficient racing position, you will choose the smaller size. In no case should you choose a size outside of the 2.5" range.

Rear. Figuring the rear size is much easier. Rear stem height is not dependent on framesize and standover height is relatively immaterial. The rear rider normally mounts and dismounts the same way that they would mount or dismount a horse. Further, the stoker will never need to put a foot down when stopping, much less stand over the frame. This explains why "mixteback" and staggered top-tube designs are undesirable — with these designs frame integrity is sacrificed for an imagined comfort. Riders that can barely straddle a 19" frame will find themselves perfectly comfortable on the back of a 25" x 22"

tandem. A good rear size is 8.5" less than inseam, and the allowable range is plus or minus 2.75". If these measurements indicate two of the standard rear sizes for the standard front size already chosen, the possibility of different sized stokers should be considered (children in the family would indicate the smaller size, while riding with taller members of your cycling club might indicate the larger size).

Questions? Call Us!

We hope you'll find that our authorized Santana dealers are the most knowledgeable tandem experts in your area. But if you have further questions please don't hesitate to call Santana Customer Service. Our Customer Service Rep will be happy to answer any of your tandem questions, including questions you might have regarding design, components, features, sizing and availability. And the Santana Customer Service Department will continue to be a valuable resource after you receive your Santana. Our Customer Service Rep can

do everything from advising you about maintenance to shipping you a spare part in a hurry (an overnight parts shipment while you are on a tour can get you back on the road and keep your vacation intact). Our Santana Customer Service was initiated in 1981 and we are still the only bicycle manufacturer with this direct customer-to-factory service.

Santana Customer Service (714) 621-6943

*(Weekdays 9:00 a.m. — 5:00 p.m.
Pacific Time)*

Suggested retail prices do not include shipping or applicable sales tax. Specifications and prices are subject to change without notice. Water bottles are photographed in order to show standard braze-on positions — bottles and cages are optional.
Printed 10/84.

Comparison Chart:

Use the empty columns to compare Santana with other brands... and you'll discover why Santana is the leader in lightweight tandems.

FRAMESET	SOVEREIGN	ARRIVA	ÉLAN
Hand brazed construction	●	●	●
Direct Lateral Frame Design	●	●	●
New Columbus Tandem-85 tubeset	●		
Chrome-Moly tubing throughout	●	●	●
Custom quality workmanship	●	●	
35mm x 22mm forkblades	●	●	
Investment cast fork crown	●	●	●
35mm x 22mm chainstays	●		
Non-indented chainstays	●	●	●
1 1/8" Diameter Downtube	●		
Rack and waterbottle braze-ons	●	●	●
DuPont Imron metallic paint	●		
DuPont Imron Clearcoat	●	●	
Roller bearing headset	●		
Campi-Dimension Headset	●	●	●
COMPONENTS			
Shimano Deore X-T cantilevers	●	●	
Arai "RX" Tandem Hub brake	●	●	●
No-tool dual Q-R for Arai brake	●	●	●
New Modolo Pro-Tandem brake levers	●		
Extra wide alloy handlebars	●	●	●
Santana-Specialized rear stem	●	●	
Forged aerodynamic front stem	●		
Delrin-lined cable housings	●	●	●
DRIVETRAIN			
Special 1:1 or lower low gear	●	●	●
Ultra-wide 25"-112" gearing	●		
Suntour bar-end gear controls	●	●	●
New Suntour Le Tech derailleurs	●		
Sealed bearing bottom brackets	●	●	
Sealed bearing pedals	●		
Cotterless alloy triple crankset	●	●	●
WHEELS			
48 spoke front and rear	●	●	●
Dishless wheel design	●	●	●
Sealed bearing hubs	●	●	
Swiss stainless D.T. spokes	●	●	●
Anodized hard alloy rims	●	●	●
Special grey surface hardening	●		
Quick release front hub	●	●	
Kevlar-belted tires	●		
AVAILABLE OPTIONS			
Quick-change child stoker attachments	●	●	●
Custom frame sizes	●		
Custom paint colors	●		
Custom braze-ons	●		
Custom component substitutions	●	●	
Alternate length crankarms	●	●	
Custom gearing changes	●	●	
Custom men's/mixte frame style	●		
Frameset available separately	●	●	●

TRIPLET

Multiply your tandem experience with a Santana Sovereign for three. Agile enough for a family tour – strong enough for a three-man breakaway. Santana has produced these unique bikes since 1979. Available by custom order only. \$4250.

ALL-TERRAIN TANDEM

Share the excitement of off-road fun on the first tandem designed specifically for high-speed travel over uncertain terrain. Not just fat tires – but a whole new design and geometry. Santana's well known quality and craftsmanship plus the newest state-of-the-art mountain bike components. \$2500.

EXPLORER

For some people the excitement begins where the pavement ends. Whether it's the Alaskan Highway or the roughest roads of the Idaho outback, the Explorer delivers Santana performance on all road surfaces. Santana defines a new breed of tandem – ultra-wide touring tires, all-terrain geometry, and rugged touring components. \$2500.

**Features Previously Unavailable
on Inexpensive Tandems:**

Hand-Brazed Chrome-Moly Frameset.
48-Spoke Wheels with DT Stainless-Steel Spokes.
Brazed-On Rack and Water Bottle Fittings.

ÉLAN

FRAME

Suggested Retail \$1275

Sizes	21x20, 22½x20½, 24x21.
Colors	Caribbean blue powder paint.
Frame	Santana/Ishiwata chrome-moly tubing throughout with oversize double butted frame tubes, heavy gauge chainstays, and oval bottom tube.
Fork	Heavy gauge 28mm x 20mm chrome-moly forkblades with reinforced steering tube and investment cast crown.
Braze-Ons	Complete braze-on package for the cantilever brakes and all cable runs. Brazed-on mounting points for waterbottles and a Seatstay rack. Special braze-on for the Arai brake anchor arm.

COMPONENTS

Brakes	Dia-Compe brazed-on cantilevers plus the Arai "RX" with exclusive dual point quick releases. Mafac Pro levers.
Headset	Steel.
Seatposts	Alloy.
Front Stem	Alloy with recessed allen key fittings.
Rear Stem	Alloy.
Bars	Wide alloy.
Saddles	Avocet touring.

DRIVETRAIN

Crankset	Sugino 52x46x34.
Bottom Bracket	Sugino.
Pedals	Alloy with Christophe toe clips and straps.
Derailleurs	Suntour wide-range rear and Compe-V front.
Shifters	Suntour bar-end shift levers.
Freewheel	Suntour Perfect 14-34.
Chain	Shimano Uniglide.

WHEELS

Hubs	Suzue 48° front and rear.
Rims Anodized	Ukai hard-alloy 48° 27x1⅞."
Spokes	DT Stainless.
Tires	National Tandem-120 27x1⅞" high-strength.

New Features for 1985:

*La Prade Micro-Adjust Seatposts.
New Stronglight Tipo-199 Crankset.
Shimano Deore XT Cantilever Brakes.*

ARRIVA

FRAME

Suggested Retail \$1775

Sizes	20x18, 22x20, 24x20, 24x22.
Colors	Translucent powder paint with DuPont Imron clear topcoat: Radiant Red and Brilliant Blue.
Frame	Santana/Ishiwata chrome-moly tubing throughout with oversize double butted frame tubes, oversize non-indented chainstays, and oval bottom tube.
Fork	Oversized 35mm x 22mm chrome-moly forkblades with reinforced steering tube and investment cast crown.
Braze-Ons	Complete braze-on package for the cantilever brakes and all cable runs. Brazed-on mounting points for rear Seatstay rack, four waterbottles and the Arai brake anchor arm.

COMPONENTS

Brakes	Shimano Deore-XT cantilever brakes. Arai "RX" tandem hub brake with exclusive dual-point quick releases. Mafac Pro levers.
Headset	Specialized steel.
Seatposts	SR Laprade alloy.
Front Stem	SR with recessed allen key fittings.
Rear Stem	Specialized/Santana alloy with aerodynamic styling.
Bars	SR wide alloy.
Saddles	Avocet touring.

DRIVETRAIN

Crankset	New Stronglight Tipo-199 with 54x48x32 chainrings.
Bottom Bracket	Precision sealed bearing.
Pedals	SR alloy with black anodized cages. Christophe toe clips and straps.
Derailleurs	Suntour wide-range Mountech rear and Compe-V front.
Shifters	Suntour bar-end shift levers.
Freewheel	Suntour Pro-Comp 14-32.
Chain	Shimano Uniglide, black and gold.

WHEELS

Hubs	Suzue 48" sealed bearing. QR Front.
Rims Anodized	Ukai hard-alloy 48" 27x1 1/8"
Spokes	DT Stainless.
Tires	Specialized Touring-II 27x1 1/8"

New Features for 1985:

*The New Columbus Tandem Tubeset.
Specialized Sealed-Bearing Pedals.
Grey-Anodized Hard Alloy Rims.*

SOVEREIGN

FRAME

Suggested Retail \$2675

Sizes	20 1/2 x 19 1/2, 22x19, 22x21, 23 1/2 x 20 1/2, 23 1/2 x 22 1/2, 25x22, 25x24, plus custom sizes.
Colors	DuPont Imron metallic paint and clear topcoat. Four standard colors: Bright Red Metallic, Rich Brown Metallic, Deep Blue Metallic, and Slate Grey Metallic. Custom colors available.
Frame	New Columbus Special Tandem-85 tubeset with oversize double butted frame tubes, oversize chainstays, and oval bottom tube.
Fork	Columbus 35mm x 22mm chrome-moly forkblades with reinforced steering tube and investment cast crown.
Braze-Ons	Complete braze-on package for the cantilever brakes and all cable runs. Brazed-on mounting points for fenders, rear Seatstay rack, front Lo-Rider rack, four waterbottles, and a pump. Special braze-ons for the Arai brake anchor arm and for a pair of stainless steel chainstay protectors (spare spokes). Custom braze-ons are available.

COMPONENTS

Brakes	Shimano Deore-XT cantilever brakes. Arai "RX" tandem hub brake with dual QR. New Modolo Pro-Tandem levers.
Headset	Stronglight/Spidel alloy with roller bearings.
Seatposts	SR Laprade alloy micro-adjust.
Stems	Specialized/Santana fully forged alloy front and rear.
Bars	Specialized/Santana extra-wide alloy bars with dual width bend.
Saddles	Vetta anatomic leather.

DRIVETRAIN

Crankset	Stronglight 106-txt competition with 54x49x32 chainrings.
Bottom Bracket	Precision tandem-strength sealed bearing bottom brackets.
Pedals	Specialized alloy sealed bearing pedals with Italian zytel clips and Cinelli toe straps.
Derailleurs	New Suntour LeTech front and rear.
Shifters	Suntour bar-end shift levers.
Freewheel	Suntour New-Winner 13-34 full-width six speed.
Chain	Shimano Uniglide, black and gold.

WHEELS

Hubs	Phil Wood 48" sealed bearing. QR Front.
Rims	Grey Anodized Ukai hard-alloy 48" 27x1 1/8"
Spokes	DT Stainless.
Tires	Specialized K-4 27x1 1/8" Kevlar belted.