

1982



# THE RALEIGH RACING FORMULA

**RALEIGH**



# RALEIGH

Precision, quality and value for money are the key features of TI Raleigh's new lightweight range now being produced in a custom built workshop, acknowledged as being the most advanced of its kind in the world.

Opened in October 1981 by former Raleigh Professional Multi-World Sprint Champion Reg Harris, the new Lightweight Unit combines experience and craftsmanship with the latest technology to ensure that the top of the range 531 models shown in this booklet are superbly engineered down to the most minute detail. This means extreme care not only in producing the frame and forks – the vital heart of any bicycle – but the components which go towards making the complete machine, from lightweight tourer to pure racer. And all parts will have gone through the most exhaustive performance and durability trials in our Test Department.

Naturally only the best TI Reynolds tubing is used and the components to go with it are the ones the experts would use if they were building up their own specialist machine.

Our growing links with Campagnolo, who have chosen our European Pro-Racing Team for their main sponsorship, mean that all our 1982 range of 531 bikes are fitted with their gears. The other components come from the 'league leaders' like Cinelli, Weinmann, Sun Tour, SR, Mavic, ISCA and Clement.

But while our Lightweight Unit is the acknowledged leader in its class, our Specialist



Bicycle Development Unit at Ilkeston offers something even more refined – the expertise that builds machines for the TI Raleigh Campagnolo Racing Team and a host of World and National Champions on road and track.

Headed by Gerald O'Donovan, the small team at Ilkeston has been responsible for advanced developments in material design and use, in conjunction with TI Reynolds, and they can build the right frameset for every rider and every occasion.

And this does not just mean building every frame in ultra light TI Reynolds tubing. Experience gained in top class international racing means getting the right combinations of materials, angles and clearances to suit the rider and the event.

So that, briefly, is the Raleigh Lightweight Story. Look through our range, check the technical specifications and then visit your local Raleigh Dealer. Whatever specification you are looking for, we can give it to you. Precisely.





## TEAM REPLICA 12

Campagnolo Nuovo Record ensemble including gear, chainset, brakes, pedals, seat pin and small flange quick-release hubs. TI Reynolds 531 Team Professional frameset. Mavic GP4 alloy sprint rims. Clement Ritmo tubular tyres. Cinelli alloy bend and stem.

**Colour:** Raleigh Team colours.

### Frame size:

Choice of 8 frame sizes from 52cm (20½") to 65cm (25½").

Available to special order.

Allow three months for delivery.

## GRAN SPORT 12

Campagnolo Gran Sport ensemble including gear, headset, brakes, chainset, pedals, and seat pin.

Full TI Reynolds 531 frame.

Weinmann concave section alloy rims and Campagnolo Nuovo Tipo quick release hubs. Cinelli alloy bend and stem. ISCA Tornado suede saddle.

**Colour:** Pearl Caramel

(or Raleigh Team colours with sprint rims and tubular tyres).

### Frame size:

51cm (20")	700 x 25 wheels.
54cm (21")	700 x 25 wheels.
57cm (22½")	700 x 25 wheels.
60cm (23½")	700 x 25 wheels.
64cm (25")	700 x 25 wheels.







## RECORD ACE 12

Campagnolo Gran Sport gear. SR Custom alloy cotterless chainset. Sun Tour Ultra 6 freewheel and chain. Weinmann 605 alloy quick release side-pull brakes. 73° parallel TI Reynolds 531 frame. Engraved Italiane alloy handlebars with forged alloy stem. Esge narrow section gold chromoplastic mudguards.

**Colour:** Ice Green.

### Frame size:

54cm (21")	27" wheels.
57cm (22½")	27" wheels.
60cm (23½")	27" wheels.
64cm (25")	27" wheels.

## COMPETITION 12

Campagnolo Gran Sport gear. SR Custom alloy cotterless chainset. Sun Tour Ultra 6 freewheel and chain. Weinmann 605 alloy quick release side-pull brakes. 74° parallel TI Reynolds 531 frame. Competition small flange quick release hubs.

### Frame size:

54cm (21")	700 x 25 wheels.
57cm (22½")	700 x 25 wheels.
60cm (23½")	700 x 25 wheels.
64cm (25")	700 x 25 wheels.

**Colour:** Polar Blue.







## CLUBMAN 12

Campagnolo 980 gear. SR alloy cotterless 5-pin detachable chainset with alloy chainring guard. Weinmann alloy rims with small flange quick release hubs. Sun Tour Ultra 6 freewheel and chain. Weinmann 610 alloy centre-pull brakes with quick release levers. 73° parallel TI Reynolds 531 frame with

double-buttressed main tubes. Esge narrow section gold chromo-plastic mudguards. Alloy pedals fitted with toe clips and straps.

**Colour:** Claret.

**Frame size:**

54cm (21")	27" wheels.
57cm (22½")	27" wheels.
60cm (23½")	27" wheels.
64cm (25")	27" wheels.

## RAPIDE 12

Campagnolo 980 gear. SR alloy cotterless 5-pin detachable chainset. Sun Tour Ultra 6 freewheel and chain. Weinmann 500 alloy quick release side-pull brakes. 74° parallel TI Reynolds 531 frame with double-buttressed main tubes. Weinmann alloy rims with small flange quick release hubs. Alloy pedals fitted with toe clips

and straps and fluted alloy seat pin.

**Colour:** Fern Green.

**Frame size:**

54cm (21")	700 x 25 wheels.
57cm (22½")	700 x 25 wheels.
60cm (23½")	700 x 25 wheels.
64cm (25")	700 x 25 wheels.





Aad van den Hoek

Ludo de Keulenaar

Ad Wijnands

Gerard Veldscholten

Johan van de Velde

Gerrie Knetemann

Jan Raas

Ludo Peeters



 **RALEIGH**

**1982 PROFESSIONAL**

Equipment includes: TI Raleigh framesets in Reynolds 753 tubing. Campagnolo ensemble. Mavic





Peter Post

Jules de Wever

Henk Lubberding

Frits Pirard

Cees Priem

Jacques Hanegraaf

Leo van Vliet

Frank Hoste

# *Campagnolo*

## **IONAL RACING TEAM**

e. Mavic rims. Cinelli stems and handlebars. Clement tyres. ISCA saddles. Cars by Mercedes Benz.



MODEL	TEAM REPLICA 12	GRAN SPORT 12	RECORD ACE 12
<b>Frame Sizes</b>	20½" 21½" 22" 22½" 23" 23½" 24½" 25½"	51cm (20") 54cm (21") 57cm (22½") 60cm (23½") 64cm (25")	54cm (21") 57cm (22½") 60cm (23½") 64cm (25")
<b>Frame Material</b>	Reynolds 531 Double-Butted Tubes and Taper Gauge Stays. Campagnolo Short Forged Ends. Prugnat S4 Lugs.	Reynolds 531 Double-Butted Tubes and Taper Gauge Stays. Vitus Forged Ends. Haden Royal Sovereign Lugs.	Reynolds 531 Double-Butted Tubes and Taper Gauge Stays. Sun Tour GS Forged Ends. Haden Royal Sovereign Lugs.
<b>Frame Angles</b>	Geometry varies according to Frame Size.	74° parallel.	73° parallel.
<b>Headset</b>	Campagnolo Strada.	Campagnolo Sport.	Tange MA60.
<b>Forks</b>	Reynolds 531 Taper Gauge with Vagner Italien Oval Crown and Campagnolo Forged Ends.	Reynolds 531 Taper Gauge with Vagner Italien Oval Crown and Vitus Forged Ends.	Reynolds 531 Taper Gauge Blades with Forged Vagner Crown and Sun Tour GS Forged Ends.
<b>Wheels</b>	Mavic GP4 Alloy Sprint Rims. Campagnolo Nuovo Record Small Flange Quick-Release Hubs. Stainless Double-Butted Spokes.	Weinmann A124 Concave Section Alloy Rims. Campagnolo Nuovo Tipo Small Flange Quick-Release Hubs. Rustless Double-Butted Spokes. (Mavic Monthlery Pro Alloy Sprint Rims on Team GS).	Weinmann 27 × 1¼" Alloy Rims. Competition Small Flange Quick-Release Hubs. Rustless Double-Butted Spokes.
<b>Tyres</b>	Clement Ritmo Tubular.	IRC 700×25C Skinside High Pressure. (Clement Ritmo Tubular on Team GS).	Raleigh 27 × 1¼" Gumwall High Pressure.
<b>Mudguards</b>	No Clearance.	No Clearance.	Esge Narrow Section Gold Chromoplastic.
<b>Handlebar</b>	Cinelli No. 65 Alloy Bend. Yellow Benotto Tape.	Cinelli No. 65 Alloy Bend. Black Cloth Tape. (Engraved Italienne Alloy Bend with Yellow Benotto Tape on Team GS).	Engraved Italienne Alloy Bend. Brown Cloth Tape.
<b>Stem</b>	Cinelli No. 1A	Cinelli No. 1A. (SR Apex Forged Alloy on Team GS).	SR Apex Forged Alloy.
<b>Brakes</b>	Campagnolo Nuovo Record.	Campagnolo Gran Sport.	Weinmann 605 Alloy Side-Pull. Quick-Release with Wheel Guides.
<b>Derailleur</b>	Campagnolo Nuovo Record. Direct Fit Levers.	Campagnolo Gran Sport. Direct Fit Levers.	Campagnolo Gran Sport Front and Rear with Clip-Fit Down Tube Levers.
<b>Chainset</b>	Campagnolo Nuovo Record with 52/42T Super Record Rings. 170mm Cranks.	Campagnolo Gran Sport 5 Arm 52/42T. 170mm Cranks.	SR Custom Alloy Cotterless 52/42T. 170mm Cranks.
<b>Freewheel</b>	Regina Oro. 13-14-15-16-17-18 Teeth.	Sun Tour Ultra 6 Silver. 13-14-15-17-19-21 Teeth.	Sun Tour Ultra 6 Silver. 14-16-18-21-24-28 Teeth.
<b>Chain</b>	Sedisport Gold.	Sun Tour Ultra 6 Narrow.	Sun Tour Ultra 6 Narrow.
<b>Pedals</b>	Campagnolo Nuovo Record.	Campagnolo Gran Sport.	Alloy Quill.
<b>Saddle</b>	Isca Tornado.	Isca Tornado.	Brown Suede.
<b>Seat Pin</b>	Campagnolo Nuovo Record.	Campagnolo Gran Sport.	SR CTP5 fluted Alloy with Single Allen Bolt Adjustment.
<b>Extras</b>	SA Sportif Toe Clips/Straps. TA Allen Key Seat Bolt. Bottle and Alloy Cage.	Christophe Toe Clips. SA Sportif Toe Straps. TA Allen Key Seat Bolt. Bottle Cage Mount. (Water Bottle and Alloy Cage on Team GS.)	Christophe Toe Clips. Leather Toe Straps. Allen Key Seat Bolt. Bottle Cage Mount.
<b>Approx Weight.</b>	22lb (22½" Frame).	23½lb (23½" Frame).	25½lb (22½" Frame).



# SPECIFICATIONS

MODEL	COMPETITION 12	CLUBMAN 12	RAPIDE 12
<b>Frame Sizes</b>	54cm (21") 57cm (22½") 60cm (23½") 64cm (25")	54cm (21") 57cm (22½") 60cm (23½") 64cm (25")	54cm (21") 57cm (22½") 60cm (23½") 64cm (25")
<b>Frame Material</b>	Reynolds 531 Double-Butted Tubes and Taper Gauge Stays. Vitus Forged Ends. Haden Royal Sovereign Lugs.	Reynolds 531 Double-Butted Main Tubes. Raleigh High Tensile Stays with Sun Tour GS Forged Ends. Haden Olympic Lugs.	Reynolds 531 Double-Butted Main Tubes. Raleigh High Tensile Stays with Vitus Forged Ends. Haden Olympic Lugs.
<b>Frame Angles</b>	74° parallel.	73° parallel.	74° parallel.
<b>Headset</b>	Tange MA60.	Tange MA60.	Tange MA60.
<b>Forks</b>	Reynolds 531 Taper Gauge with Vagner Italien Oval Crown and Vitus Forged Ends.	Raleigh 20-30 High Tensile Steel Blades with Forged Vagner Crown and Sun Tour GS Forged Ends.	Raleigh 20-30 High Tensile Steel Blades with Forged Vagner Crown and Vitus Forged Ends.
<b>Wheels</b>	Weinmann 700C Alloy Rims. Competition Small Flange Quick-Release Hubs. Rustless Double-Butted Spokes.	Weinmann 27 × 1¼" Alloy Rims. Atom Small Flange Alloy Quick-Release Hubs.	Weinmann 700C Alloy Rims. Atom Small Flange Alloy Quick-Release Hubs.
<b>Tyres</b>	Raleigh 700 × 25C Gumwall High Pressure.	Raleigh 27 × 1¼" Gumwall High Pressure.	Raleigh 700 × 25C Gumwall High Pressure.
<b>Mudguards</b>	No Clearance.	Esge Narrow Section Gold Chromoplastic.	No Clearance.
<b>Handlebar</b>	Engraved Italienne Alloy Bend. Black Cloth Tape.	Raleigh Italienne Alloy Bend. Black Cloth Tape.	Raleigh Italienne Alloy Bend. Black Cloth Tape.
<b>Stem</b>	SR Apex Forged Alloy.	SR Custom Light Alloy.	SR Custom Light Alloy.
<b>Brakes</b>	Weinmann 605 Alloy Side-Pull. Quick-Release with Wheel Guides.	Weinmann 610 Alloy Centre-Pull. Quick-Release Brake Levers.	Weinmann 500 Alloy Side-Pull. Quick-Release.
<b>Derailleur</b>	Campagnolo Gran Sport Front and Rear with Clip-Fit Down Tube Levers.	Campagnolo 980 Front and Rear with Clip-Fit Down Tube Levers.	Campagnolo 980 Front and Rear with Clip-Fit Down Tube Levers.
<b>Chainset</b>	SR Custom Alloy Cotterless 52/42T. 170mm Cranks.	SR Alloy Cotterless 5 Pin Detachable with Alloy Chainring Guard. 52/42T. 170mm Cranks.	SR Alloy Cotterless 5 Pin Detachable 52/42T. 170mm Cranks.
<b>Freewheel</b>	Sun Tour Ultra 6 Silver. 13-14-15-17-19-21 Teeth.	Sun Tour Ultra 6 Silver. 13-14-15-18-21-24 Teeth.	Sun Tour Ultra 6 Silver. 13-14-15-18-21-24 Teeth.
<b>Chain</b>	Sun Tour Ultra 6 Narrow.	Sun Tour Ultra 6 Narrow.	Sun Tour Ultra 6 Narrow.
<b>Pedals</b>	Alloy Quill.	Alloy Quill.	Alloy Quill.
<b>Saddle</b>	Black Suede.	Black Suede.	Black Suede.
<b>Seat Pin</b>	SR CTP5 fluted Alloy with Single Allen Bolt Adjustment.	SR CTP5 fluted Alloy with Single Allen Bolt Adjustment.	SR CTP5 fluted Alloy with Single Allen Bolt Adjustment.
<b>Extras</b>	Christophe Toe Clips. Leather Toe Straps. TA Allen Key Seat Bolt. Bottle Cage Mount.	Christophe Toe Clips. Leather Toe Straps. Frame Fitting Inflator. Bottle Cage Mount.	Christophe Toe Clips. Leather Toe Straps. Frame Fitting Inflator. Bottle Cage Mount.
<b>Approx Weight.</b>	23½lb (22½" Frame).	26½lb (23½" Frame).	25lb (22½" Frame).



# What's behind the name on the frame?

If a cycle frame carries the Reynolds 531, 531SL or 753 transfer it has a matchless combination of qualities.

Reynolds frames achieve levels of responsiveness, lightness and strength, demanded by world champions and winners in all facets of the sport.

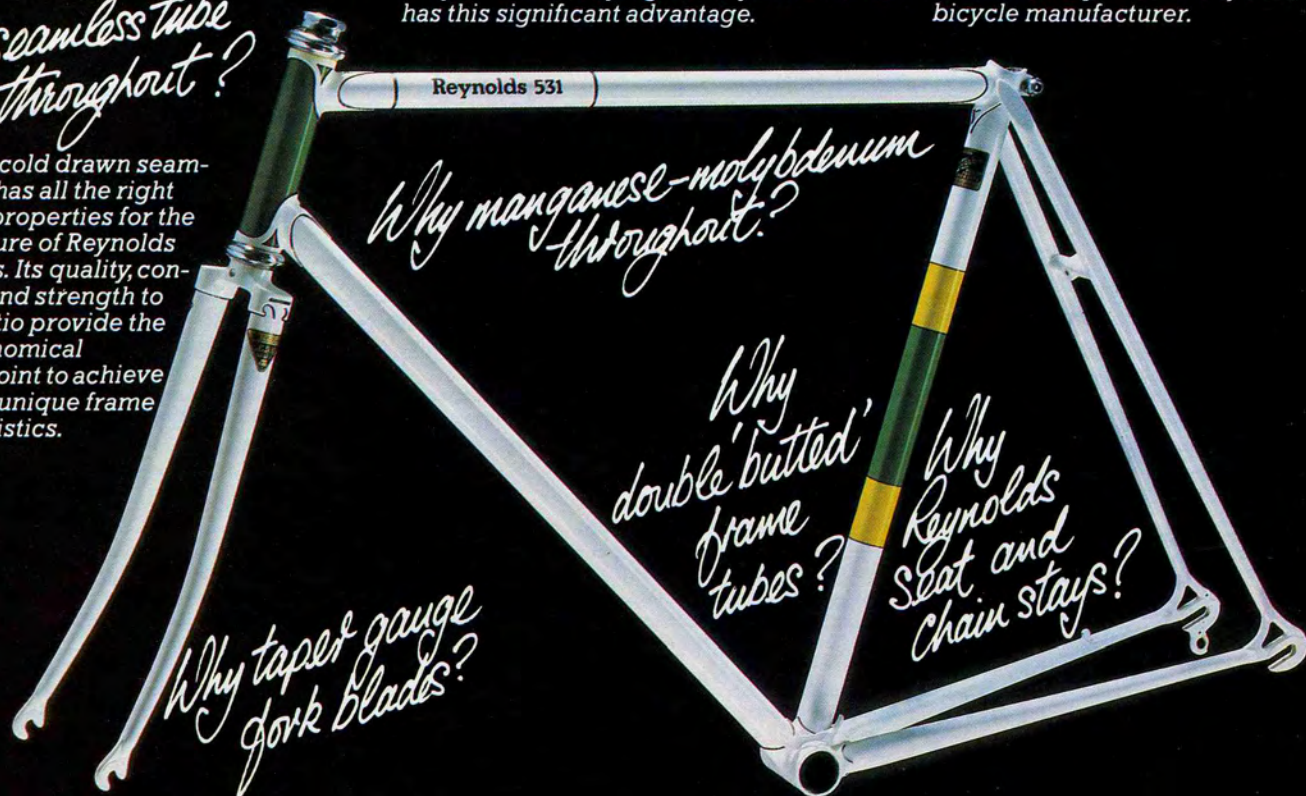
*Why seamless tube throughout?*

Precision cold drawn seamless tube has all the right physical properties for the manufacture of Reynolds frame sets. Its quality, consistency and strength to weight ratio provide the most economical starting point to achieve Reynolds unique frame characteristics.

We use manganese-molybdenum steel because it has a 50 ton tensile strength and retains a far greater proportion of its strength after brazing than other competitive materials. Therefore, you can achieve a far stronger frame for a given weight or a far lighter frame for a given strength. Only a frame carrying the Reynolds name has this significant advantage.

*Why transfers?*

Reynolds transfers are your guarantee of the tube in your frame and are strictly controlled to protect the cyclist, dealer and bicycle manufacturer.



When ordinary tube is tapered, the process causes it to thicken towards the tip, giving undesirable performance characteristics. Reynolds single butt the tube first so that after tapering the result is a fork blade that has constant gauge throughout giving strength at the crown with all the resilience you need. There's a variety of fork rakes and tip forms to suit all purposes from racing to touring.

The butting process invented by Reynolds gives tube strength where stress is greatest - at the joints, and lightness in the centre of the tube for improved performance. Tube walls are thickened at the ends and thinned at the centre while retaining a constant outside tube diameter.

When the rest of the frame achieves the high performance of Reynolds components it is important that seat and chain stays are designed to match. A full range made in manganese-molybdenum will meet all specification requirements.



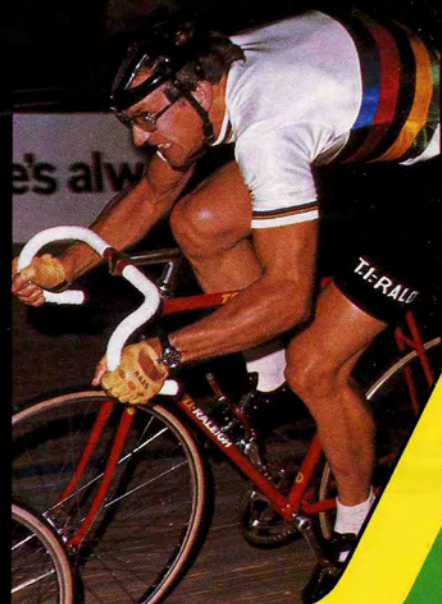
## Reynolds

right from start to finish.



TI Reynolds Limited, PO Box 232, Hay Hall, Redfern Rd, Tyseley, Birmingham, England, B11 2BG. Telephone: 021 706 3333. Telex: 338181

For quantities of 500 sets or less, contact The Holdsworth Co. Ltd. Oakfield Road, London, England, SE20 8DE. Tel: 01 659 1811. Telex: 947 073.







## GET INTO GEAR

Getting into Gear with TI Raleigh means much more than choosing the right bike for your style of riding, whether it's out-and-out racing, touring or quiet weekend cycling.

The right type of clothing can mean keeping dry in the rain and warm in winter.

Raleigh wear is produced by experts based on the designs of the clothing worn by the TI Raleigh Campagnolo professional racing team. Racing vests, shorts, caps, tracksuits and track mitts are stylish and functional in a range of sizes. There are even racing vests for children.

This experience has now been extended

into other sports and leisure accessories, including ladies' jogging suits, sweatshirts, T shirts, sports bags, pullovers, rainsuits and rain tops. All produced to the same quality as the racing clothing.

For the bike itself, the Raleigh Ralpar range includes panniers, locks, handlebar tape, grips and end stops, touch-up paint spray cans and much more, for security and safety.

All of the Get into Gear and Raleigh Ralpar items are available through your Raleigh dealer.

Get into Gear with Raleigh and Ralpar.





## FRAME SETS

If you're really looking for a first-class performer you can get an off-the-shelf Raleigh Professional 531 Team Replica frameset with 73°/74° geometry, Campagnolo Record headset, Vagner fork crown and Campagnolo fork ends in a choice of six frame sizes from 52cm (20½in) to 65cm (25½in).

On the other hand, if you want a specialist machine built to your own specifications you'll probably want an ultra light-weight frame in Reynolds 753

tubing as shown in the picture. Developed in close co-operation with us, this high strength manganese-molybdenum tubing is acknowledged as the world's best by top professional riders. TI Raleigh Team framesets are handmade in Ilkeston by the men behind the world's most successful professional racing team.

You can share in the vast experience of this team by having a 753 frameset built to your own exclusive specification.

### 753 Dynaflite

We can also offer a limited supply of framesets in our exciting Dynaflite ovoid tubing. Each tube is designed and shaped for its specific role in the frame.

### 531

The original favourite on which Team Raleigh made its name. We make 531 frames for any form of cycle sport.

### 531 SL

A lighter alternative to 531, particularly suitable for road and

track time trials. Also for use on road race machines on better road surfaces.

### Specialist Unit

For full details of all these specialist frames in the TI Raleigh Team range contact your local dealer. Or write direct with full details of your own requirements to:

Specialist Bicycle Development Unit,  
TI Raleigh Ltd., Digby St., Ilkeston,  
Derbyshire.

To TI Raleigh, Lenton Boulevard, Nottingham.  
Please send me your free colour catalogue.

Name \_\_\_\_\_

Age \_\_\_\_\_

Member of Cycling Club \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

For further information about all the models in the Raleigh Racer range just send off the coupon for a free colour catalogue.



...trust it

Our policy of continual improvement means that product specification and appearance may be changed while the booklet is still in use. Spring 1982.

# RALEIGH

TI RALEIGH LTD, NOTTINGHAM, ENGLAND.