

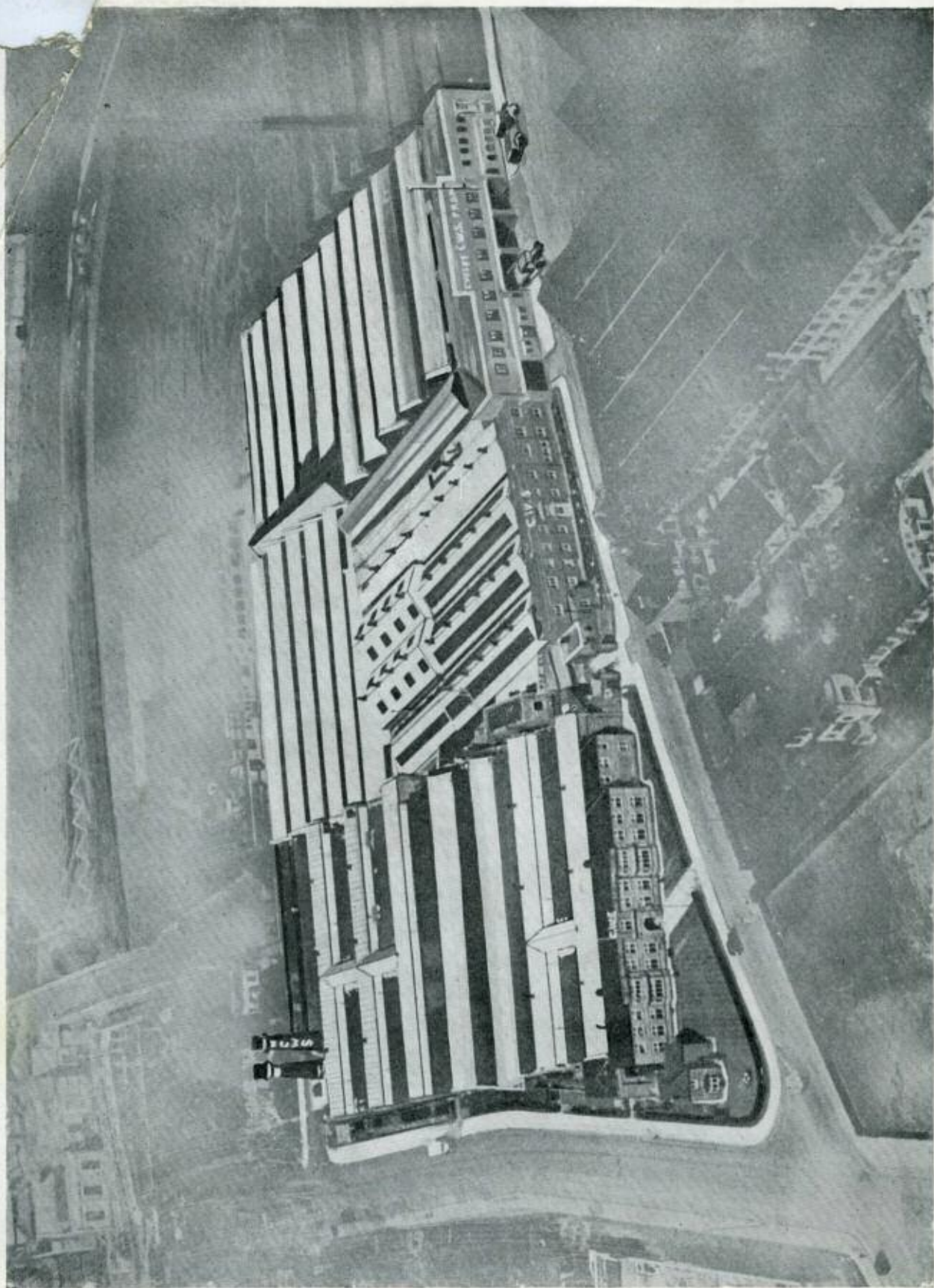
C.W.S

CYCLES



1939

OBTAINABLE
AT ALL
CO-OPERATIVE
SOCIETIES



AERIAL VIEW OF OUR FACTORY MANUFACTURING C.W.S. CYCLES ARE MADE

Introduction

WHAT are the chief points to look for when choosing a Cycle? Strength, easy running, comfort, lightness, rigidity, and of course, value—all these must be considered by the discriminating purchaser.

In offering our 1939 range of **C.W.S. Cycles** we are confident that it satisfies all these requirements to a greater degree possibly than any other make. As in the past, quality has been achieved by the use of **high-grade British materials throughout**, combined with the most modern and efficient methods of production; whilst the tremendous demand enables us to offer the keenest possible value. These qualities have obtained for us for several years in succession **Government contracts** (in which a high standard of quality is the first essential) for the supply of complete cycles and parts.

A perusal of the following pages will reveal a range of models to suit most riders, but we are pleased at all times to build to customer's own specifications, and will gladly quote for your special requirements through your local **Co-operative Society** who will be pleased to deal with your enquiry. Nearly all our Models are of the **low-built safety type** which enables the feet to be placed securely on the ground without dismounting, and with the exception of Models 41, 42, and Juvenile Machines, all are fitted with **Large Cups and 5/32in. Balls** top and bottom to the head bearings which eliminates the loose head trouble. Many Models are fitted with **Oil Bath Bottom Bracket Bearings**. These important features are a great asset to the rider.

Finally, the **C.W.S. Ltd.** guarantees service and satisfaction to every purchaser of these Cycles, which are supplied by all **Co-operative Societies** throughout the country.

SPORTS MODELS.

We specialise in Sports Models and are pleased to build to customer's own requirements.

CO-OPERATIVE WHOLESALE SOCIETY Ltd.
FEDERAL WORKS, TYSELEY, BIRMINGHAM

● Specification

Model 5

FRAME—British High-grade Steel Tubing, Steel Lugs, Cotterless Bracket.

SIZES—20in., 22in., 24in., 26in.

HEAD—Expander Type, Large Cup Races, 5/32in. Balls; gives smooth steering action.

WHEELS—28in. x 1 1/4in. Bayliss-Wiley Hubs, 1/2in. Ball-bearings Front and Rear, Chromium Plated.

HANDLEBARS—Standard Upturned.

BRAKES—Roller Lever, Rim Type.

CHAIN WHEEL AND CRANKS—48 Teeth; 7in. Cranks.

CHAIN—Perry's.

FREE WHEEL—Villiers', 20 Teeth.

GEAR—67.

PEDALS—Rubber.

MUDGUARDS—Steel, Round Section.

TYRES—Dunlop "Roadster."

SADDLE—Dunlop-Bates, 3-Coil, or Lycett's Leather.

FINISH—Enamelled Black on Rust-proof Surface (Coslett Process). Double Lined. Usual bright parts Chromium Plated.

EQUIPMENT—Tool Bag, Spanners, Oiler, Inflator, Reflector.

NOTE—26in. Wheels or All-Black Finish supplied to order without extra charge; 20in. size Frame is fitted with 26in. Wheels as standard.

6-volt **DYNAMO LIGHTING SET**, prices from 17/6 extra, fitted free.

Sturmey-Archer (Type "A.W.") 3-speed Gear, 21/- extra.

● GENTS £4 . 7 . 6



The Federal

CWS

● Specification

FRAME—Low-built Safety Model, Sloping Top Rail, 1in. Drop. British High-grade Steel Tubing, Steel Lugs, Cotterless Bracket, 10½in. high.

SIZES—20in., 22in., 24in. (26in. has 28in. Wheels).

HEAD—Expander Type, Large Cup Races, 5/32in. Balls; gives smooth steering action.

WHEELS—26in. x 1½in. Bayliss-Wiley Hubs, ½in. Ball-bearings Front and Rear, Chromium-plated Rims.

FREE WHEEL—Villiers', 18 Teeth.

HANDLEBARS—North Road Raised.

BRAKES—Roller Lever, Rim Type.

CHAIN WHEEL AND CRANKS—48 Teeth; 6½in. Cranks

GEARS—69, 26in. Wheels; 67, 28in. Wheels.

PEDALS—Rubber.

CHAIN—Perry's.

MUDGUARDS—Steel, Round Section.

SADDLE—Dunlop-Bates, 3-Coil, or Lycett's Leather.

TYRES—Dunlop "Roadster."

FINISH—Enamelled Black on Rust-proof Surface (Coslett Process). Double Lined. Usual bright parts Chromium Plated.

EQUIPMENT—Tool Bag, Spanners, Oiler, Inflator, Reflector.

NOTE—All-Black Finish supplied to order without extra charge.

6-volt **DYNAMO LIGHTING SET**, prices from 17/6 extra, fitted free.

Sturmey-Archer (Type "A.W.") 3-speed Gear, 21/- extra.

Model 29

**LOW-BUILT
SAFETY MODEL**

● **GENTS £4 . 7 . 6**



Federal Popular

CWS

Specification

FRAME—Low-built Safety Model. High-grade British Tubing with Staggered Straight Tubes, Steel Lugs, Cotterless Bracket.

SIZES—20in., 22in.

HEAD—Expander Type, Large Cup Races, 5/32in. Balls; gives smooth steering action.

WHEELS—26in. x 1 1/2in. Bayliss-Wiley Hubs, 1/2in. Ball-bearings Front and Rear. Chromium-plated Rims.

CHAIN WHEEL AND CRANKS—44 Teeth; 6 1/2in. Cranks.

FREE WHEEL—Villiers', 18 Teeth.

GEAR—64.

CHAIN—Perry's.

PEDALS—Rubber.

HANDLEBARS—North Road Raised.

BRAKES—Roller Lever, Rim Type.

MUDGUARDS—Steel, Round Section.

SADDLE—Dunlop-Bates, 3-Coil, or Lycett's Leather.

CHAIN COVER—Metal.

TYRES—Dunlop "Roadster."

FINISH—Enamelled Black on Rust-proof Surface (Coslett Process). Double Lined. Usual bright parts Chromium Plated.

EQUIPMENT—Tool Bag, Spanners, Oiler, Inflator, Reflector.

NOTE—All-Black Finish supplied to order without extra charge.

6-volt DYNAMO LIGHTING SET, prices from 17/6 extra, fitted free.

Sturmev-Archer (Type "A.W.") 3-speed Gear, 21/- extra.

Model 6



LADIES' FEDERAL

FITTED WITH CURVED TOP TUBE

FRAME SIZES—22in., 24in.

WHEELS—28in., W.O., British Hubs.

Other details as Model 6 S.T.

Price **£4.12.6**

Model 6 S.T.

£4.15.0



Ladies' Federal

CWS

● Specification

FRAME—British High-grade Steel Tubing, Steel Lugs, Cotterless Bracket.

SIZES—20in., 22in., 24in., 26in.

HEAD—Expander Type, Large Cup Races, 5/32in. Balls; gives smooth steering action.

WHEELS—28in. x 1 1/2in. Sturmev-Archer 3-speed Gear. Front Hub 1/2in. Ball-bearings. Rims Centred and Lined, Chromium Plated.

HANDLEBARS—Standard Uprturned.

BRAKES—Roller Lever, Rim Type.

CHAIN WHEEL AND CRANKS—48 Teeth; 7in. Cranks.

GEARS—50, 67, 90.

PEDALS—Rubber.

CHAIN—Perry's.

MUDGUARDS—Steel, Round Section.

SADDLE—Lycett's Supple Top Spring Seat.

TYRES—Dunlop "Roadster."

GEAR CASE—Detachable Divided Metal.

FINISH—Enamelled Black on Rust-proof Surface (Coslett Process). Double Lined. Usual bright parts Chromium Plated.

EQUIPMENT—Tool Bag, Spanners, Oiler, Inflator, Reflector.

6-volt **DYNAMO LIGHTING SET**, prices from 17/6 extra, fitted free.

Model 30

**THREE-SPEED AND
GEAR CASE**

● **GENTS £6 . 10 . 0**



Federal Super

CWS

• Specification

FRAME—Low-built Safety Model. British High-grade Steel Tubing with Staggered Straight Tubes, Steel Lugs, Cotterless Bracket.

SIZES—20in., 22in.

HEAD—Expander Type, Large Cup Races, 5/32in. Balls; gives smooth steering action.

WHEELS—26in. x 1 1/4in. Chromium-plated Rims, Centred and Lined. Sturmey-Archer 3-speed Gear. Front Hub has 1/2in. Ball-bearings.

HANDLEBARS—Standard Uprturned.

BRAKES—Roller Lever, Rim Type.

CHAIN WHEEL AND CRANKS—44 Teeth; 6 1/2in. Cranks.

GEARS—47, 64, 85.

PEDALS—Rubber.

CHAIN—Perry's.

MUDGUARDS—Steel, Round Section.

SADDLE—Lycett's Supple Top Spring Seat.

GEAR CASE—Detachable Divided Metal.

TYRES—Dunlop "Roadster."

FINISH—Enamelled Black on Rust-proof Surface (Coslett Process). Double Lined. Usual bright parts Chromium Plated.

EQUIPMENT—Tool Bag, Spanners, Oiler, Inflator, Reflector.
6-volt DYNAMO LIGHTING SET, prices from 17/6 extra, fitted free.

Model 31



LADIES' FEDERAL SUPER

FITTED WITH CURVED TOP-TUBE

Sturmey-Archer 3-speed Gear and Gear Case.

SIZES—22in., 24in.

WHEELS—26in. x 1 1/4in., W.O.
Other details as Model 31 S.T.

Price **£6 . 12 . 0**

• *Model 31* S.T. **£6 . 12 . 0**



Federal Super

CWS

● Specification

FRAME—British High-grade Steel Tubing, Steel Lugs, Cotterless Bracket.

SIZES—20in., 22in., 24in. (26in. has 28in. Wheels).

HEAD—Expander Type, Large Cup Races, 5/32in. Balls; gives smooth steering action.

WHEELS—26in. x 1½in. Bayliss-Wiley Hubs, ½in. Ball-bearings Front and Rear.

FREE WHEEL—Villiers'.

HANDLEBARS—Standard Upturned, Celluloid Covered.

BRAKES—Roller Lever, Rim Type.

CHAIN WHEEL AND CRANKS—48 Teeth; 6½in. Cranks.

GEAR—69, 26in. Wheels; 67, 28in. Wheels.

CHAIN—Perry's.

MUDGUARDS—"D" Section, Steel.

GEAR CASE—Metal.

PEDALS—Rubber.

SADDLE—Lycett's Supple Top Spring Seat.

TYRES—Dunlop "Roadster."

FINISH—Enamelled Black on Rust-proof Surface (Coslett Process). Double Lined, Small Parts Oxidised.

EQUIPMENT—Tool Bag, Spanners, Oiler, Inflator, Reflector.

MODEL 16
GENTS **£5 . 10 . 0**

6-volt **DYNAMO LIGHTING SET**, prices from 17/6 extra, fitted free.

Model 16 and 17

**ALL-WEATHER
FINISH**

MODEL 17. With Cable-operated Internal-expanding Hub Brakes, instead of Rim Brakes. Otherwise as Model 16.

MODEL 17
GENTS **£6 . 5 . 0**



The All-Weather

CWS

● Specification

FRAME—Low-built Safety Model, Sloping Top Rail, 1in. drop. British High-grade Steel Tubing, Steel Lugs, Cotterless Bracket, 10½in. high.

SIZES—20in., 22in., 24in. (26in. has 28in. Wheels).

HEAD—Expander Type, Large Cup Races, 5/32in. Balls; gives smooth steering action.

WHEELS—26in. x 1½in. Sturmey-Archer 3-speed Gear. Front Hub ½in. Ball-bearings. Rims Centred and Lined, Chromium Plated.

HANDLEBARS—North Road Raised.

BRAKES—Roller Lever, Rim Type.

CHAIN WHEEL AND CRANKS—48 Teeth; 6½in. Cranks.

GEARS—52, 69, 93, 26in. Wheels; 50, 67, 90, 28in. Wheels.

PEDALS—Rubber.

CHAIN—Perry's.

MUDGUARDS—Steel, Round Section.

SADDLE—Lycett's Supple Top Spring Seat.

GEAR CASE—Detachable Divided Metal.

TYRES—Avon or John Bull "Service" (Black Gristly).

FINISH—Enamelled Black on Rust-proof Surface (Coslett Process). Double Lined. Usual bright parts Chromium Plated.

EQUIPMENT—Tool Bag, Spanners, Oiler, Inflator, Reflector.

NOTE—All-Black Finish supplied to order without extra charge.

6-volt **DYNAMO LIGHTING SET**, prices from 17/6 extra fitted free.

Model 7

**THREE-SPEED AND
GEAR CASE**

● **GENTS £6 . 10 . 0**



Federal Special

CWS

● Specification

FRAME—British High-grade Steel Tubing, entirely Brazed-up, Cutaway Lugs, Straight Round-tapered Seat and Chain Stays, Quick Forward Drop-out Solid Fork Ends, Bracket, 10½in. high.

SIZES—21in. and 23in.

HEAD—Expander Type, Large Cup Races, 5/32in. Balls; gives smooth steering action.

WHEELS—26in. x 1½in. Double-sided Racing Hubs, Quick-release Wing Nuts, Endrick Rims, Chromium Plated.

FREE WHEEL—Villiers', 18 Teeth.

HANDLEBARS—Lauterwasser Black Bend, Chromium-plated Forward Adjustable Stem, Rubber Grips.

BRAKES—Caliper, Front and Rear.

CHAIN WHEEL AND CRANKS—46 Teeth; 6½in. Cranks.

GEAR—66.

PEDALS—Racing Rat Trap.

CHAIN—Perry's.

MUDGUARDS—Narrow Steel, Cream, Spearpoint Extension with Chromium-plated Tip.

SADDLE—Supple Top Spring Seat.

TYRES—John Bull Black "Club."

FINISH—Enamelled Black on Rust-proof Surface (Coslett Process). Bright parts Chromium Plated.

EQUIPMENT—Touring Bag, Spanners, Oiler, Inflator, Reflector.

6-volt DYNAMO LIGHTING SET, prices from 17/6 extra, fitted free.

Sturmey-Archer (Type "A.W.") 3-speed Gear, 21/- extra.

Model 8

**ALL BRAZED-UP
FRAME**

● **GENTS' SPORTS £5 . 10 . 0**



The Hurricane

CWS

● Specification

FRAME—British High-grade Steel Tubing, entirely Brazed-up. Cutaway Lugs, Straight Round-tapered Seat and Chain Stays. Quick Forward Drop-out Solid Fork Ends. Bracket, 10½in. high.

SIZE—21in.

HEAD—Expander Type, Large Cup Races, 5/32in. Balls; gives smooth steering action.

WHEELS—26in. x 1½in. Double-sided Racing Hubs, Quick-release Wing Nuts, Endrick Rims, Chromium Plated.

FREE WHEEL—Villiers', 18 Teeth.

HANDLEBARS—North Road Dropped, Black Bend. Chromium-plated Forward Adjustable Stem. Rubber Grips.

BRAKES—Caliper, Front and Rear.

CHAIN WHEEL AND CRANKS—46 Teeth; 6½in. Cranks.

GEAR—66.

PEDALS—Racing Rat Trap.

CHAIN—Perry's.

MUDGUARDS—Narrow Steel, Cream, Spearpoint Extension with Chromium-plated Tip.

SADDLE—Supple Top Spring Seat.

TYRES—John Bull Black "Club."

FINISH—Enamelled Black on Rust-proof Surface (Coslett Process). Usual bright parts Chromium Plated.

EQUIPMENT—Touring Bag, Spanners, Oiler, Inflator, Reflector, 6-volt DYNAMO LIGHTING SET, prices from 17/6 extra, fitted free.

Sturmey-Archer (Type "A.W.") 3-speed Gear, 21/- extra

Model 8 L.S.

ALL BRAZED-UP
FRAME

● LADIES' SPORTS £5 . 10 . 0



The Speedway

CWS

● Specification

FRAME—Upright Frame Angles. Reynold's Tubing, entirely Brazed up. Cutaway and Fish-tail Lugs. Straight Round-tapered Seat and Chain Stays. Drop-out Solid Fork Ends, Bayliss-Wiley Oil Bath Bottom Bracket, 10½in. high, Brazed-on Inflator Pegs.

SIZES—21in. and 23in.

HEAD—Expander Type, Large Cup Races, 5/32in. Balls; gives smooth steering action.

FORKS—Russ Pattern, Solid Ends, all Chromium Plated.

WHEELS—26in. x 1½in. Bayliss-Wiley Double-sided Racing Hubs, ½in. Ball-bearings Front and Rear, Quick-release Wing Nuts, Endrick Rims, Chromium Plated. Villiers', 18 Teeth. Free Wheel, and Fixed Sprocket.

HANDLEBARS—Highgate, Chromium Plated; Forward Adjustable Stem, Rubber Grips.

BRAKES—Caliper, Front and Rear.

CHAIN WHEEL AND CRANKS—Williams' 5-pin Flanged, 46 Teeth; 6½in. Cranks.

GEAR—66.

PEDALS—"Grande Vitesse" Racing Rat Trap.

CHAIN—Perry's.

MUDGUARDS—Ivory Celluloid, Spearpoint Extension with Chromium-plated Tip.

SADDLE—Brooks' B.32 Leather.

TYRES—Dunlop "Sprite."

FINISH—Sheen Blue with Continental Bands, or Enamelled Black, on Rust-proof Surface (Coslett Process). Usual bright parts Chromium Plated.

EQUIPMENT—Touring Bag, Spanners, Oiler, Inflator, Reflector.

6-volt DYNAMO LIGHTING SET, prices from 17/6 extra, fitted free.

Model 10

UPRIGHT FRAME
SHEEN BLUE
FINISH

● GENTS' SPORTS £6 . 7 . 6



The Wizard

CWS

● Specification

FRAME—Reynold's Tubing, Cutaway and Fish-tailed Lugs, entirely Brazed-up. Straight Round-tapered Seat and Chain Stays. Solid Drop-out Fork Ends, Bayliss-Wiley Oil Bath Bottom Bracket, 10½in. high. Brazed-on Inflator Pegs.

SIZE—21in.

HEAD—Expander Type, Large Cup Races, 5/32in. Balls; gives smooth steering action.

FORKS—Russ Pattern, Solid Ends, all Chromium Plated.

WHEELS—26in. x 1½in. Bayliss-Wiley Double-sided Racing Hubs, ½in. Ball-bearings Front and Rear. Quick-release Wing Nuts, Endrick Rims, Chromium Plated.

FREE WHEEL—Villiers', 18 Teeth.

HANDLEBARS—North Road Drop, Chromium Plated; Forward Adjustable Stem. Rubber Grips.

BRAKES—Calliper, Front and Rear.

CHAIN WHEEL AND CRANKS—Williams' 5-pin Flanged, 46 Teeth; 6½in. Cranks.

GEAR—66.

PEDALS—"Grande Vitesse" Racing Rat Trap.

CHAIN—Perry's.

MUDGUARDS—Ivory Celluloid, Spearpoint Extension, with Chromium-plated Tip.

SADDLE—Lycett's "Aero," Supple Leather Top Spring Seat.

TYRES—Dunlop "Sprite."

FINISH—Sheen Blue with Continental Band, or Enamelled Black, on Rust-proof Surface (Coslett Process). Bright parts Chromium Plated.

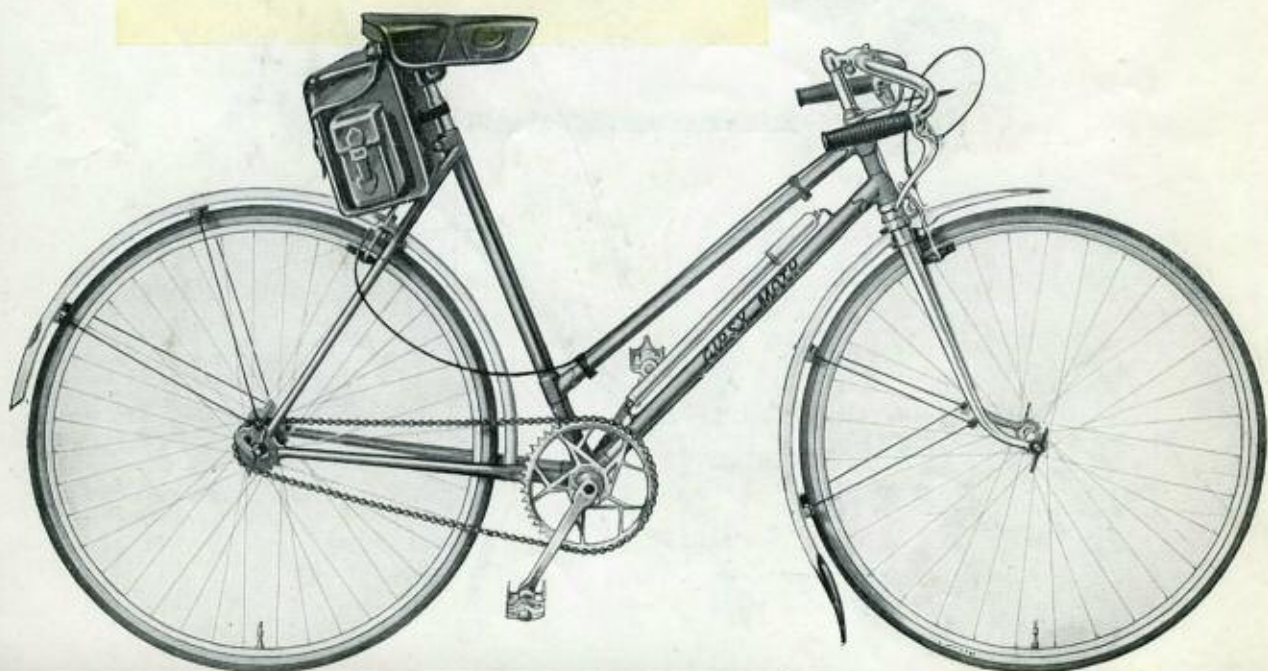
EQUIPMENT—Touring Bag, Spanners, Oiler, Inflator, Reflector.

6-volt DYNAMO LIGHTING SET, prices from 17/6 extra, fitted free.

Model 11

**SHEEN BLUE
FINISH**

● **LADIES' SPORTS £6 . 7 . 6**



The Gipsy Moth

CWS

● Specification

FRAME—Upright Frame Angles. Cutaway and Fish-tail Lugs. Cotterless Bracket. **Reynold's High Manganese Butted Tubing.** Round-tapered Seat and Chain Stays. All Brazed-up Rear. Forward Drop-out Solid Fork Ends. Brazed-on Mudguard Eyes, and Inflator Pegs. Chromium-plated Rear Fork Ends. Ground Clearance 10½in. Wheelbase approximately 41½in.

SIZES—21in. and 23in. **FORKS**—Chromium-plated Crown and Ends. **Reynold's Super-resilient Blades.** Solid Drop-out Ends. Brazed-on Mudguard Eyes and Adjustable Lamp Bracket.

HEAD—Expander Type, Large Cup Races, 5/32in. Balls; gives smooth steering action.

WHEELS—26in. x 1½in. Endrick Rims, Double-butted Spokes. Bayliss-Wiley Double-sided Racing Hubs. Locked Cones, 16 and 18 Teeth Fixed Sprockets. Rims Centred and Lined. Quick-release Wing Nuts.

CHAIN WHEEL AND CRANKS—46 Teeth; 6½in. Fluted Cranks.

GEARS—75 and 66.4.

HANDLEBARS—Continental Bend, Chromium Plated; Forward Adjustable Stem. Tape Grips.

BRAKES—Resilion Cantilever, Model A, Front and Rear

SADDLE—Brooks' B.11 Leather.

CHAIN—Reynold's.

PEDALS—"Grande Vitesse" Racing Rat Trap.

MUDGUARDS—Bluemel's White "No-weight," Spearpoint Extension.

TYRES—Dunlop "Sprite."

FINISH—Sheen Green with Continental Bands, or Black Enamelled, on Rust-proof Surface (Coslett Process). All bright parts Chromium Plated.

EQUIPMENT—Tourist Bag, Spanners, Oiler, Inflator, Reflector. 6-volt **DYNAMO LIGHTING SET**, prices from 17/6 extra, fitted free.

Model 26

HIGH MANGANESE
TUBING
RESILION "A"
BRAKES

● GENTS' SPORTS £7 . 19 . 6



The Greyhound

CWS

● Specification

Model 41

FRAME—Upright Frame Angles, 73° Head, 71° Seat. Reynold's "531" Butted Steel Tubing, Cutaway and Fish-tail Lugs, specially Filed and Lightened. Pencil-tapered Seat Stays and 2in. Chain Stays. All Brazed-up Rear. Brazed-on Mudguard Eyes, Reflector Eye and Inflator Pegs. Bayless-Wiley Oil Bath Bottom Bracket with Hollow Axle, 10 $\frac{1}{2}$ in. high. Chromium-plated Fork Ends, Forward Drop-out. Wheelbase 41in.

SIZE—21in.

FORKS—Russ Pattern, Reynold's "531" Blades, all Chromium Plated. Solid Drop-out Fork Ends. Brazed-on Adjustable Lamp Bracket.

HEAD—Brampton Head-clip Fitting.

WHEELS—Dunlop Special Light-weight Endrick Rims, 26in. x 1 $\frac{1}{2}$ in., Chromium Plated. Double-butted Spokes. British "Solite" Hubs.

CHAIN WHEEL AND CRANKS—Williams' Special Racing, Flanged, 46 Teeth; 6 $\frac{1}{2}$ in. Cranks.

GEAR—Cyclo "Poly" Derailleur 3-speed; 15, 17, 19 Sprockets, giving Gears of 80, 70, 62.

HANDLEBARS—Reynold's Hiduminium Bailey Bend, on Adjustable Hiduminium Girder Stem with 2 $\frac{1}{2}$ in Forward Extension. Tape Grips.

BRAKES—Resilion Cantilever Chromium-plated Model "A," Front and Rear.

SADDLE—Mansfield "North Road Racing," with Hiduminium Frame, or Brooks' B17 "Flyweight" (as shown)

CHAIN—Renold's.

PEDALS—"Grande Vitesse" Racing Rat Trap.

MUDGUARDS—Bluemel's White "No-weight," Quickly Detachable.

TYRES—Dunlop High-pressure Road Racing.

LUBRICATION—Tecalemit Oil Gun.

FINISH—Pastel Blue or Grey, with Continental Bands or Black Enamel, on Rust-proof Surface. Usual bright parts Chromium Plated.

EQUIPMENT—Tourist Bag, Spanners, Oil Gun, Inflator, Reflector.

6-volt **DYNAMO LIGHTING SET**, prices from 17/6 extra, fitted free.

"531" TUBING
"POLY" 3-SPEED

● **GENTS' SPORTS**

£12 . 12 . 0



The Autocrat

CWS

● Specification

Model 42

FRAME—Upright Frame Angles, 73° Head, 71° Seat. Reynold's "531" Butted Tubing. Cutaway and Fish-tailed Lugs. Bayliss-Wiley Oil Bath Bottom Bracket, Ground Clearance 10½in. Round-tapered Seat and Chain Stays. All Brazed-up Rear. Forward Drop-out Solid Fork Ends, Brazed-on Mudguard Eyes, and Inflator Pegs. Chromium Plated Rear Fork Ends. Wheelbase 41in.

SIZES—21in. and 23in.

FORKS—Chromium-plated Crown and Ends. Russ Pattern. Reynold's "531" Blades, Solid Drop-out Fork Ends. Brazed-on Mudguard Eyes and Adjustable Lamp Bracket.

HEAD—Brampton Head Clip.

WHEELS—26in. x 1½in. Endrick Rims, Double-butted Spokes, Bayliss-Wiley Special Free Wheel Unit Hub for Derailleur Gear, and "Feather-weight" Front Hub. Rims Centred and Lined. Quick-release Wing Nuts.

CHAIN WHEEL AND CRANKS—46 Teeth; 6½in. Fluted Cranks.

GEARS—"Cyclo" Derailleur 3-speed, 57, 66, 85.

HANDLEBARS—Continental Bend, Chromium Plated, Forward Adjustable Stem. Tape Grips.

BRAKES—Monitor "Super-Cam" Caliper, Front and Rear.

SADDLE—Brooks' B.11 Leather.

CHAIN—Reynold's.

PEDALS—"Grande Vitesse" Racing Rat Trap.

MUDGUARDS—Bluemel's White "Light-weight," Spear-point Extension, Quickly Detachable.

TYRES—Dunlop "Sprite."

FINISH—Sheen Steel Blue with Continental Bands, or Black Enamelled, on Rust-proof Surface (Coslett Process). All bright parts Chromium Plated.

EQUIPMENT—Tourist Bag, Spanners, Oiler, Inflator, Reflector. 6-volt DYNAMO LIGHTING SET, prices from 17/6 extra, fitted free.

"531" TUBING
CYCLO 3-SPEED

● GENTS' SPORTS £8 . 17 . 6



The Flash

CWS

● Specification

Model 32

FRAME—Upright Frame Angles. Reynold's Steel Tubing, entirely Brazed-up. Curaway Lugs. Straight Round-tapered Seat and Chain Stays. Quick Forward Drop-out Solid Fork Ends. Bayliss-Wiley Oil Bath Bottom Bracket, 10 $\frac{1}{2}$ in. high.

SIZES—21in. and 23in.

HEAD—Expander Type. Large Cup Races, 5/32in. Balls; gives smooth steering action.

WHEELS—26in. x 1 $\frac{1}{2}$ in. Sturmey-Archer "A.M." Pattern (medium Ratio) 3-speed Gear. Front Hub $\frac{1}{2}$ in. Balls, Quick-release Wing Nuts, Endrick Rims, Chromium Plated.

HANDLEBARS—Lauterwasser Black Bend, Chromium-plated Forward Adjustable Stem, Rubber Grips.

BRAKES—Caliper, Front and Rear.

CHAIN WHEEL AND CRANKS—46 Teeth; 6 $\frac{1}{2}$ in. Cranks.

GEARS—49.8, 66.4, 88.5.

PEDALS—Racing Rat Trap.

CHAIN—Perry's.

MUDGUARDS—Narrow Steel, Cream, Spearpoint Extension with Chromium-plated Tip.

SADDLE—Supple Top Spring Seat.

TYRES—Dunlop "Sports" (Black).

FINISH—Enamelled Black with Continental Band, on Rust-proof Surface (Coslett Process). Double Lined. Usual bright parts Chromium Plated.

EQUIPMENT—Tool Bag, Spanners, Oiler, Inflator, Reflector.

6-volt **DYNAMO LIGHTING SET**, prices from 17/6 extra, fitted free.

This Machine is also obtainable fitted with Sturmey-Archer 2-speed Type T.F., or Villiers' 2-speed, instead of 3-speed, to special order.

UPRIGHT FRAME
STURMEY-ARCHER
"A.M." 3-SPEED

● **GENTS' SPORTS £6 . 12 . 6**



The Seagull

CWS

● Specification

FRAME—Upright Frame Angles. Reynold's Steel Tubing, entirely Brazed-up. Cutaway Lugs, Straight Round-tapered Seat and Chain Stays. Quick Forward Drop-out Solid Fork Ends. Bayliss-Wiley Oil Bath Bottom Bracket, 10½in. high.

SIZES—21in. and 23in.

HEAD—Expander Type. Large Cup Races, 5/32in. Balls; gives smooth steering action.

WHEELS—26in. x 1½in. Rear, "Tri-velox" 3-speed Gear. Front Hub ½in. Balls, Quick-release Wing Nuts. Endrick Rims, Chromium Plated.

HANDLEBARS—Highgate Chromium-plated Bend, Forward Adjustable Stem, Rubber Grips.

BRAKES—Caliper, Front and Rear.

CHAIN WHEEL AND CRANKS—46 Teeth; 6½in. Cranks.

GEARS—57, 66, 85.

PEDALS—Racing Rat Trap.

CHAIN—Perry's.

MUDGUARDS—Narrow Steel, Cream, Spearpoint Extension with Chromium-plated Tip.

SADDLE—Supple Top Spring Seat.

TYRES—Dunlop "Sports" (Black).

FINISH—Enamelled Black with Continental Band, on Rust-proof Surface (Coslett Process). Usual bright parts Chromium Plated.

EQUIPMENT—Touring Bag, Spanners, Oiler, Inflator, Reflector.

6-volt **DYNAMO LIGHTING SET**, prices from 17/6 extra, fitted free.

Model 34

UPRIGHT FRAME
"TRI-VELOX"
3-SPEED

● GENTS' SPORTS £6 . 19 . 6



The Silver Dawn

CWS

● Specification

FRAME—Upright Frame Angles. Reynold's Steel Tubing, entirely Brazed-up. Cutaway Lugs, Straight Round-tapered Seat and Chain Stays, Quick Drop-out Fork Ends. Bayliss-Wiley Oil Bath Bottom Bracket, 10½in. high.

SIZES—21in. and 23in.

WHEELS—26in. x 1½in. Cyclo "Star" 3-speed Gear, fitted with Special Bayliss-Wiley Free Wheel Unit Hub. Front Hub ½in. Balls, Quick-release Wing Nuts. Endrick Rims, Chromium Plated.

HEAD—Expander Type, Large Cup Races, 5/32in. Balls; gives smooth steering action.

HANDLEBARS—Lauterwasser Black Celluloid-covered Bend, Chromium-plated Forward Adjustable Stem, Rubber Grips.

BRAKES—Calliper, Front and Rear.

CHAIN WHEEL AND CRANKS—46 Teeth; 6½in. Cranks.

GEARS—57, 66, 85.

PEDALS—Racing Rat Trap.

CHAIN—Perry's.

MUDGUARDS—Narrow Steel, Cream, Spearpoint Extension, Chromium-plated Tip.

SADDLE—Supple Top Spring Seat.

TYRES—Dunlop "Sports" (Black).

FINISH—Enamelled Black with Continental Band, on Rust-proof Surface (Coslett Process). Bright parts Chromium Plated.

EQUIPMENT—Touring Bag, Spanners, Oiler, Inflator, Reflector.

6-volt DYNAMO LIGHTING SET, prices from 17/6 extra, fitted free.

Model 35

UPRIGHT FRAME
CYCLO "STAR"
3-SPEED

● GENTS' SPORTS £6 . 7 . 6



The Whippet

CWS

● Specification

Model 14 R.B.

FRAME—Low-built Safety Model. British High-grade Steel Tubing, entirely Brazed-up. Cutaway Lugs, Straight Round-tapered Seat and Chain Stays, Quick Drop-out Fork Ends. Bracket 10½in. high.

SIZES—21in. and 23in.

HEAD—Expander Type, Large Cup Races, 5/32in. Balls; gives smooth steering action.

WHEELS—26in. x 1½in. Bayliss-Wiley Hubs, ½in. Ball-bearings in Front and Rear. Westwood Rims, Chromium Plated.

FREE WHEEL—Villiers', 18 Teeth.

HANDLEBARS—Chromium-plated Raised Comfort Celluleid Grips.

BRAKES—Rim Type, Roller Lever.

CHAIN WHEEL AND CRANKS—46 Teeth; 6½in. Cranks.

GEAR—66.

CHAIN—Perry's.

MUDGUARDS—Steel, Narrow Section, Spearpoint Extension.

PEDALS—Rubber or Rat Trap.

SADDLE—Supple Top Spring Seat.

TYRES—John Bull "Service" (Black).

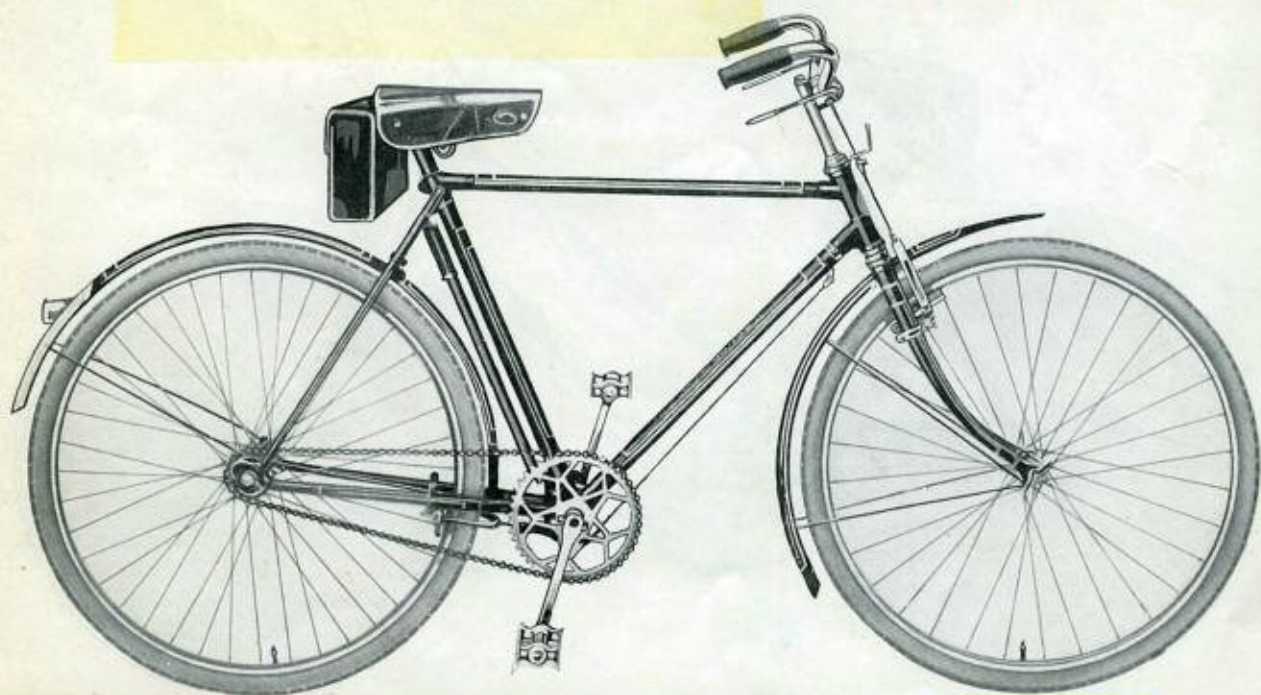
FINISH—Enamelled Black on Rust-proof Surface (Coslett Process). Double Lined. Usual bright parts Chromium Plated

EQUIPMENT—Bag, Spanners, Oiler, Inflator, Reflector.

6-volt **DYNAMO LIGHTING SET**, prices from 17/6 extra, fitted free.

LOW-BUILT
SAFETY MODEL

● GENTS £5 . 10 . 0



Federation
Light Roadster

CWS

● Specification

FRAME—Low-built Safety Model, British High-grade Steel Tubing, entirely Brazed-up. Cutaway Lugs. Straight Round-tapered Seat and Chain Stays, Drop-out Fork Ends. Bracket 10 $\frac{1}{2}$ in. high.

SIZE—21in.

HEAD—Expander Type, Large Cup Races, 5/32in. Balls; gives smooth steering action.

WHEELS—26in. x 1 $\frac{1}{2}$ in. Bayliss-Wiley Hubs, $\frac{1}{2}$ in. Ball-bearings in Front and Rear Hubs. Westwood Rims, Chromium Plated.

FREE WHEEL—Villiers', 18 Teeth.

HANDLEBARS—Chromium-plated Raised Comfort. Celluloid Grips.

BRAKES—Rim Type, Roller Lever.

CHAIN WHEEL AND CRANKS—46 Teeth; 6 $\frac{1}{2}$ in. Cranks.

GEAR—66.

CHAIN—Perry's.

CHAIN COVER—Metal.

PEDALS—Rubber.

MUDGUARDS—Steel, Narrow Section, Spearpoint Extension.

SADDLE—Supple Top Spring Seat.

TYRES—John Bull "Service" (Black).

FINISH—Enamelled Black on Rust-proof Surface (Coslett Process). Double Lined. Usual bright parts Chromium Plated.

EQUIPMENT—Bag, Spanners, Oiler, Inflator, Reflector.

6-volt DYNAMO LIGHTING SET, prices from 17/6 extra, fitted free.

Model 15 R.B.

LOW-BUILT
SAFETY MODEL

● LADIES £5 . 10 . 0



Federation
Light Roadster

CWS

● Specification

FRAME—Low-built Safety Model. British High-grade Steel Tubing, entirely Brazed-up. Cutaway Lugs. Straight Round-tapered Seat and Chain Stays. Quick Drop-out Fork Ends. Bracket 10½in. high.

SIZES—21in. and 23in.

HEAD—Expander Type. Large Cup Races, 5/32in. Balls; gives smooth steering action.

WHEELS—26in. x 1½in. Baylis-Wiley Hubs, ½in. Ball-bearings in Front and Rear. Endrick Rims, Chromium Plated.

HANDLEBARS—Raised Comfort, Chromium Plated, Celluloid Grips.

BRAKES—Caliper, Front and Rear.

CHAIN WHEEL AND CRANKS—46 Teeth; 6½in Cranks.

FREE WHEEL—18 Teeth.

GEAR—66.

PEDALS—Rubber.

CHAIN—Perry's.

MUDGUARDS—Narrow Steel, Spearpoint Extension.

SADDLE—Supple Top Spring Seat.

TYRES—Dunlop "Sports" (Black).

FINISH—Enamelled Black on Rust-proof Surface (Coslett Process). Bright parts Chromium Plated. Double Lined.

EQUIPMENT—Touring Bag, Spanners, Oiler, Inflator, Reflector.

6-volt **DYNAMO LIGHTING SET**, prices from 17/6 extra, fitted free.

Model 36

LOW-BUILT
SAFETY MODEL

● GENTS £5 . 10 . 0



Sports Roadster

CWS

● Specification

Model 37

FRAME—Low-built Safety Model, British High-grade Steel Tubing, entirely Brazed-up. Cutaway Lugs. Straight Round-tapered Seat and Chain Stays. Quick Drop-out Fork Ends. Bracket 10½ in. high.

SIZE—21 in.

HEAD—Expander Type. Large Cup Races, 5/32 in. Balls; gives smooth steering action.

WHEELS—26 in. x 1¼ in. Bayliss-Wiley Hubs, ¾ in. Ball-bearings Front and Rear. Endrick Rims, Chromium Plated.

HANDLEBARS—Raised Comfort, Chromium Plated. Celluloid Grips.

BRAKES—Calliper, Front and Rear.

CHAIN COVER—Metal.

CHAIN WHEEL AND CRANKS—46 Teeth; 6½ in. Cranks.

FREE WHEEL—18 Teeth, Villiers'.

GEAR—66.

PEDALS—Rubber.

CHAIN—Perry's.

MUDGUARDS—Narrow Steel, Spearpoint Extension.

SADDLE—Supple Top Spring Seat.

TYRES—Dunlop "Sports" (Black).

FINISH—Enamelled Black on Rust-proof Surface (Coslett Process). Double Lined. Bright parts Chromium Plated.

EQUIPMENT—Touring Bag, Spanners, Oiler, Inflator, Reflector.

6-volt **DYNAMO LIGHTING SET**, prices from 17/6 extra, fitted free.

**LOW-BUILT
SAFETY MODEL**

● **LADIES £5 . 10 . 0**



Sports Roadster

CWS

● Specification

Model 23

FRAME—Low-built Safety Model. British High-grade Steel Tubing. Cutaway and Fish-tailed Lugs, all Brazed-up. Straight Round-tapered Seat and Chain Stays. Forward Drop-out Solid Fork Ends. Baylis-Wiley Oil Bath Bottom Bracket, 10½in. high.

SIZES—21in. and 23in.

HEAD—Expander Type, Large Cup Races, 5/32in. Balls; gives smooth steering action.

WHEELS—26in. x 1½in. Rear Sturmey-Archer 3-speed Gear; Front Hub ½in. Ball-bearings. Endrick Rims, Centred and Lined.

HANDLEBARS—Raised Comfort Pattern, Chromium Plated. Celluloid Grips.

BRAKES—Monitor "Super-Cam" Caliper, operated by Roller Levers, Front and Rear.

CHAIN WHEEL AND CRANKS—Williams', 46 Teeth; 6½in. Cranks.

GEARS—50, 66, 89.

CHAIN—Renold's.

PEDALS—Rubber.

MUDGUARDS—Narrow Steel, Spearpoint Extension.

GEAR CASE—Detachable Divided Metal, with Hinged Rear Portion to facilitate Wheel Removal.

SADDLE—Lycett's Supple Top Spring Seat.

TYRES—Dunlop "Sports" (Black).

FINISH—Black Enamelled on Rust-proof Surface (Coslett Process). Double Lined. Bright parts Chromium Plated.

EQUIPMENT—Touring Bag, Spanners, Oiler, Inflator, Reflector. 6-volt DYNAMO LIGHTING SET, prices from 17/6 extra, fitted free.

SPORTS FRAME
3-SPEED AND
GEAR CASE

● GENTS £6 . 19 . 6



Federation Tourist

CWS

● Specification

FRAME—Low-built Safety Model, British High-grade Steel Tubing Cutaway and Fish-tailed Lugs. All Brazed-up. Straight Round-tapered Seat and Chain Stays. Forward Drop-out Solid Fork Ends. Bayliss-Wiley Oil Bath Bottom Bracket, 10½in. high.

SIZE—21in.

HEAD—Expander Type, Large Cup Races, 5/32in. Balls; gives smooth steering action.

HANDLEBARS—Raised Comfort, Chromium Plated. Celluloid Grips.

WHEELS—26in × 1½in. Rear Sturmey-Archer 3-speed Gear; Front Hub ½in. Ball-bearings, Endrick Rims, Centred and Lined. Chromium Plated.

BRAKES—Monitor "Super-Cam" Caliper, operated by Roller Levers, Front and Rear.

CHAIN WHEEL AND CRANKS—Williams', 46 Teeth; 6½in. Cranks.

GEARS—50, 66, 89.

PEDALS—Rubber.

CHAIN—Renold's.

MUDGUARDS—Narrow Steel, Spearpoint Extension.

GEAR CASE—Detachable Divided Metal, with Hinged Rear Portion to facilitate Wheel Removal.

SADDLE—Lycett's Supple Top Spring Seat.

TYRES—Dunlop "Sports" (Black).

FINISH—Black Enamelled on Rust-proof Surface (Coslett Process). Double Lined. Usual bright parts Chromium Plated.

EQUIPMENT—Touring Bag, Spanners, Oiler, Inflator, Reflector. 6-volt DYNAMO LIGHTING SET, prices from 17/6 extra, fitted free.

Model 24

SPORTS FRAME
3-SPEED AND
GEAR CASE

● LADIES £6 . 19 . 6



Federation Tourist

CWS

● Specification

Model 20

FRAME—Double Gents' or Gent's Front and Lady Rear. Reynold's "A" Quality Tubing, Stays, and Fork Sides. Twin Lateral Stays from Head to Rear Fork Ends, giving Strength and Rigidity. Forward Drop-out Fork Ends. Eccentric Adjustment to front Bottom Bracket. Quick-release Wing Nuts Adjusters to Rear Wheel. Brazed-on Pump Pegs and Adjustable Lamp Bracket.

SIZES—Double Gents', 21in. x 21in. Lady Back, 21in. Front, 20in. Rear.

WHEELS—26in. x 1½in. Heavy-gauge Spokes, Westwood Rims, Centred and Lined. Chromium Plated.

HANDLEBARS—Front, Marsh Level. Rear, North Road Flat. Celluloid Covered. Adjustable Stems. Shockstop Super-sponge Rubber Grips.

BRAKES—Sturmey-Archer Internal-expanding Tandem Brake Hubs, Front and Rear. Cable-cum-Rod control.

CHAIN WHEEL AND CRANKS—Special Tandem Set, 48 Teeth; 6½in. Cranks.

GEAR—"Cyclo" Derailleur 3-speed, 54, 69, 89.

PEDALS—Rubber or Rat Trap.

MUDGUARDS—Bluemel's "No-weight" Ivory Celluloid.

CHAINS—Renold's.

SADDLES—Terry's Club, No. 1198 or No. 1199.

TYRES—Dunlop "Tandem."

FINISH—Enamelled Black, on Rust-proof Surface (Coslett Process). Double Lined. Bright parts Chromium Plated.

EQUIPMENT—Touring Bag, Spanners, Oiler, Inflator, Reflector.

6-volt **DYNAMO LIGHTING SET**, prices from 17/6 extra, fitted free.

TWIN LATERAL
STAYS
CYCLO 3-SPEED

● £16 . 10 . 0



The Tandem

CWS

● Specification

FRAME—Double Diamond, Reynold's "A" Quality Tubing, all Brazed-up. Forward Drop-out Fork Ends. Eccentric Adjustment to Front Bottom Bracket. Brazed-on Pump Pegs, Mudguard Eyes, Reflector Eye, Adjustable Lamp Bracket Brazed on Front Fork. Short Wheelbase, 64in. Bottom Bracket height (approximately) 10½in.

SIZES—Double Gents', 21in. x 20½in. Lady Back, 21in. x 20½in.

WHEELS—26in. x 1½in. Heavy-gauge Spokes, Endrick Rims, Centred and Lined, Chromium Plated. Tandem Hubs.

GEAR—Tri-velox 3-speed, 54, 69, 89.

HANDLEBARS—Marsh Level, Celluloid Covered. Adjustable Stems. Shock-stop Super Sponge-rubber Grips.

BRAKES—Resilion Cantilever Model "A," Front and Rear.

CHAIN WHEEL AND CRANKS—Special Tandem Set, 48 Teeth; 6½in. Cranks.

CHAINS—Renold's.

MUDGUARDS—Bluemel's "No-weight" Ivory Celluloid.

PEDALS—Rat Trap or Rubber.

SADDLES—Supple Top Spring Seats.

TYRES—Dunlop "Tandem Sprite."

LUBRICATION—Tecalemit Oil Gun.

FINISH—Enamelled Black on Rust-proof Surface (Coslett Process). Bright parts Chromium Plated.

EQUIPMENT—Touring Bag, Spanners, Oil Gun, Inflator, Reflector.

6-volt **DYNAMO LIGHTING SET**, prices from 17/6 extra, fitted free.

Model 40

TRI-VELOX 3-SPEED
RESILION "A"
BRAKES

● £15 . 15 . 0



The Tandem

CWS

● Specification

FRAME—British Steel Tubing, Steel Lugs.

SIZE—18in. only.

WHEELS—24in. x 1 $\frac{1}{2}$ in. British-made Hubs, Westwood Rims, Chromium Plated.

HANDLEBARS—Standard Upturned.

BRAKES—Roller Lever.

MUDGUARDS—Round Section, Steel.

CHAIN WHEEL AND CRANKS—40 Teeth; 5 $\frac{1}{2}$ in. Cranks.

PEDALS—Rubber.

FREE WHEEL—British, Ball-bearing.

CHAIN—Perry's.

SADDLE—Supple Top Spring Seat.

TYRES—Dunlop Manufacture.

FINISH—Enamelled Black on Rust-proof Surface (Coslett Process). Double Lined. Usual bright parts Chromium Plated.

EQUIPMENT—Touring Bag, Spanners, Oiler, Inflator, Reflector.

Model 21 and 22

MODEL 21
BOYS **£4.4.0**

MODEL 22
GIRLS **£4.7.6**

The Girl's Model 22 may also be supplied with a straight tube frame (as shown on Model 28) to special order at no extra charge.



Juveniles

CWS

● Specification

Model 38

FRAME—British Steel Tubing, Steel Lugs, Straight Seat Stays.

SIZE—18in. only.

WHEELS—24in. x 1 $\frac{1}{2}$ in. British-made Hubs, Endrick Rims.
Chromium Plated.

HANDLEBARS—North Road Dropped.

BRAKES—Caliper, Front and Rear.

CHAIN WHEEL AND CRANKS—40 Teeth; 5 $\frac{1}{2}$ in. Cranks.

PEDALS—Rat Trap.

FREE WHEEL—British, 18 Teeth, Ball-bearing.

CHAIN—Perry's.

MUDGUARDS—Narrow Steel, Spearpoint Extension.

SADDLE—Supple Top Spring Seat.

TYRES—Palmer "Viking."

FINISH—Sheen Blue, or Enamelled Black, on Rust-proof
Surface (Coslett Process). Lined. Usual bright parts
Chromium Plated.

EQUIPMENT—Touring Bag, Spanners, Oiler, Inflator, Reflector.

● BOYS £4 . 5 . 0



The Despatch Rider

CWS

● Specification

Model 27 and 28

- FRAME**—British Steel Tubing, built with Steel Lugs.
SIZE—18in. only.
WHEELS—20in. x 1½in. British-made Hubs, Westwood Rims, Chromium Plated.
HANDLEBARS—Upturned.
BRAKES—Roller Lever.
CHAIN WHEELS AND CRANKS—28 Teeth; 4½in. Cranks.
PEDALS—Rubber.
FREE WHEEL—British, Ball-bearing. 16 Teeth
CHAIN—Perry's.
MUDGUARDS—Steel, Round Section.
SADDLE—3-Coil.
TYRES—Dunlop Manufacture.
FINISH—Enamelled Black on Rust-proof Surface (Coslett Process). Double Lined. Usual bright parts Chromium Plated.
EQUIPMENT—Inflator, Oiler, Tool Bag, Tools, Reflector.

**MODEL 27
BOYS**

£3 . 10 . 0

**MODEL 28
GIRLS**

£3 . 10 . 0



The Junior

CWS

EXTRAS

THESE EXTRAS APPLY ONLY TO CYCLES WHERE ORDERED ON A
NEW MACHINE AND NOT INCLUDED IN STANDARD SPECIFICATIONS

	Retail
	£ s. d.
Sturmey-Archer 3-speed, Standard Type, A.W. Pattern	1 1 0
Sturmey-Archer 3-speed, Medium Ratio, A.M. Pattern	1 3 0
Sturmey-Archer Standard Type 3-speed with combined Expanding Brake Hub, A.B.C. Pattern	1 7 6
Sturmey-Archer T.F. 2-speed (fixed sprocket or free wheel)	0 16 9
Sturmey-Archer A.R. Close Ratio 3-speed	1 5 3
Handlebar Trigger control for Sturmey-Archer 3-speed Gears	0 3 0
Cyclo "Standard" Derailleur 3-speed Gear on Sports Models	1 1 0
Cyclo "Star" Derailleur 3-speed Gear on Sports Models	1 1 0
Tri-velox 3-speed Gear on Sports Models	1 12 6
Perry Coaster Hub, instead of rear rim brake	0 7 6
Eadie Coaster Hub, instead of rear rim brake	0 10 0
Expanding Brake Hubs, Front and Rear (on Models 5, 6, 29, 6 S.T., 8, 8 L.S., 10, 11, 14 R.B., 15 R.B., 36, 37), per pair	1 0 0
Expanding Brake Hubs, Front and Rear (on Models 7, 23, 24, 30, 31, 31 S.T., 32, 34, 35, 42), per pair	0 14 6
Metal Gear Case	0 8 0
Detachable Divided Metal Gear Case	0 12 6
Enamelling in Colour, Royal Blue, Maroon, Mid Green—Cycles	0 6 6
Sheen Finish, Light Blue, Light Green—Cycles	0 6 6
Enamelling in above Colours —Tandems	0 10 0
Enamelling Ivory Finish—Cycles	0 10 6
Enamelling Ivory Finish—Tandems	0 15 0
28in. Frame with Double Top Tube	0 7 0

HANDLEBARS

ALTERNATIVE HANDLEBAR BENDS TO THOSE
INCLUDED IN STANDARD SPECIFICATION



Marsh Level



North Road Drop



Lauterwasser



North Road Upturned



Highgate



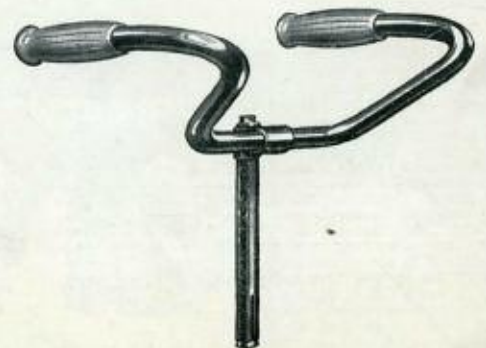
Continental



Bailey



Flat North Road



Extra Deep North Road Comfort
Bend, Raised or Dropped

LUCAS AND MILLER BELLS



LUCAS
N^o 216

Ebony-black finish ... 1/-
Chrome-plated finish ... 1/2



N^o 230

Ebony-black finish ... 1/4
Chrome-plated finish ... 1/6



LUCAS
N^o 236

Ebony-black finish ... 9d.
Chrome-plated finish ... 11d.



LUCAS
N^o 256

Ebony-black finish ... 1/4
Chrome-plated finish ... 1/6



LUCAS-CHALLIS
N^o 50

Ebony-black finish ... 2/4
Chrome-plated finish ... 2/6



N^o 82.

Ebony-black finish ... 2/3
Chrome-plated finish ... 2/5



Miller's No. "Five 20"

Ebony-black finish ... 1/2
Chrome-plated finish ... 1/4



Miller No. "Four 20"

Ebony-black finish ... 10d.
Chrome-plated finish ... 1/-



Miller's No. "Seven 20"

Ebony-black finish ... 1/4
Chrome-plated finish ... 1/6

BABY SIDECARS

MODEL No. 7
SINGLE SEATER
£4.5.0

MODEL No. 8
TWO-SEATER SIDECAR
£5.3.3

A superbly Streamlined New Model with increased depth and longer Hammock Seat, suitable for the smallest child. The Rigid Windscreen and Side-screens afford absolute security, and a Weather-proof Hood with Ventilation Window is provided. Safety Straps and Holding Rail inside for the baby are standard; a roomy Locker is included behind the Seat. Distinctive Two-colour Fabric Body Finish, picked out in Gold, is supplied. Cream Top Panels with Red, Green, or Black sides, or alternatively all Black or all Cream. Suitable for fitting to any Cycle.



Further improvements in design assure absolute protection from draughts, sun, or rain. A Ventilator is fitted to the Hood and can be opened or closed at will. The Sidecar is designed to carry two children up to 2½ years of age, and is noted for its lightness and extremely generous specification. Safety Straps are provided for both kiddies, and a small Luggage Compartment is to be found behind the Rear Seat. Optional colour specification as given for Model No. 7, make this Sidecar an extremely attractive proposition.

BATTERY LAMPS



LUCAS
No. 69A

LUCAS No. 69

Price	3/3
No. 69RS, with Rubber Bracket,	4/-
Spare Battery	8d.
Bulbs, No. C253	3d.



LUCAS
No. 68

LUCAS No. 68

Price	2/6
Spare Battery	8d.
Bulbs, No. C253	3d.



LUCAS No. 69DRS

LUCAS DIMMER

No. 69DRS, Rubber Bracket,	Price ...	4/3
Spare Battery	8d.	
Spare Bulb, No. C253	3d.	



5A5

5A5 BATTERY LAMP

A new Streamlined model. Rust-proofed and finished with high-gloss scratchproof Black Enamel. Quick-release Hinged Front, Chromium-plated Brass. Silver-plated broad beam Reflector. Screw down "on-off" Switch.

PRICE 5/-



LUCAS No. 310RS

DIMMER MODEL

No. 310RS, with Rubber Socket,

Price	6/9
Spare Bulb, No. C253	3d.
Spare Battery	8d.



4A4.

MILLER'S 4A4

A popular priced Streamlined Head Lamp fitted with Ribbed Glass. Finished in high-gloss scratchproof Black Enamel.

PRICE... .. 3/11

ALL LAMPS SUPPLIED COMPLETE



No. 121

MILLER'S 121

Popular-priced Square-pattern Lamp. Specially treated to prevent rusting. Screwed Front. Screw down "on-off" Switch. Stormproof. Finished with high-gloss scratchproof Black Enamel.

PRICE ... 1/9



EVER READY LAMP

PRICE	1/9
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222

MILLER'S 222

Square - pattern Lamp. Specially treated to prevent rusting. New design Chromium-plated Brass Front Rim with Hasp Fastening.

PRICE 2/6

LATEST PATTERN DYNAMO LAMPS

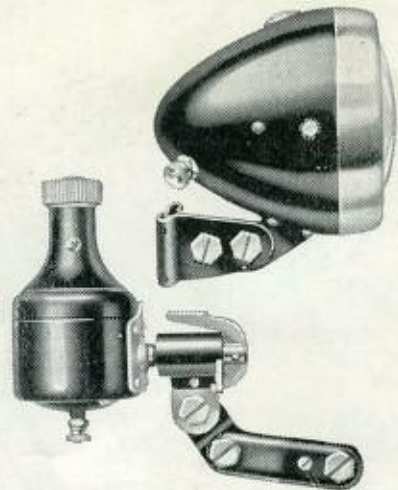


No. 325. 6-VOLT SET

Dynamo incorporates Tail Lamp and approved Reflector, and has new-type totally-enclosed pivoting action. Mud Shield standard fitting. This is the lightest 3½-watt Dynamo yet produced. New Streamlined Light-weight Head Lamp. Quick-release Front, Chromium-plated Brass. Standby battery space. 3-watt Gas-filled Main Bulb.

PRICE 21/-

ALL MILLER DYNAMOS FITTED WITH NEW TRIGGER RELEASE AND UNIVERSAL BRACKET WHICH WILL FIT ALL PATTERN BACK STAYS



THE NEW No. 528. 6-VOLT, 3.25-WATT SET

Head Lamp modern, Light-weight and Streamlined, with Press-button Control.

Dynamo can be adapted for either Front or Rear Wheel Drive, and can be used in conjunction with a Tail Lamp. PRICE—

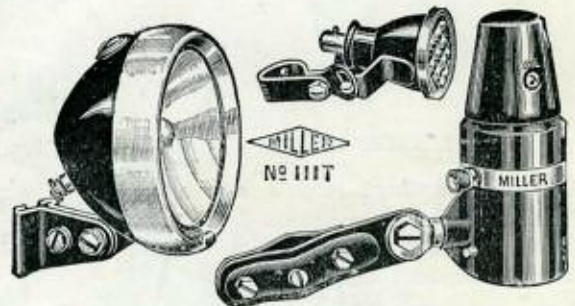
All-Black with Chromium-plated Rim ... 12/6
All Chromium 15/6



No. 324R. 6-VOLT SET

All-Chrome Head Lamp with Quick-release Hinged Front and Moulded Glass. Dynamo incorporates the Tail Lamp.

PRICE 23/6



No. 111T. 6-VOLT SET

Dynamo. A new Front-wheel-fitting Dynamo Set, fitted with Mud Shield. Head Lamp Streamlined and fitted with Car-type Gas-filled Bulb. Tail Lamp fitted with approved Prismatic Reflector Lens and specially-designed Bulb, giving greater resistance to road shocks and longer life.

PRICE 17/-



No. 586 SET

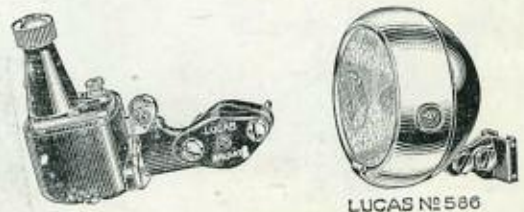
An exceptionally low-priced set, but not in any way a "cheap" set.

Dynamo is No. C25J, a full-size 6-volt type, as in the more expensive sets, but with a Universal Bracket built into Base.

Head Lamp is light yet strongly made, with a large Silver-plated Reflector which gives a powerful beam; "Difusa" Front Glass ensures a wide, even spread of light.

Rear Lamp is No. 49.

Dynamo Set, No. 586, retail 16/-



No. CD18 SET

Latest model Light-weight Set.

Head Lamp has large Silver-plated Reflector, giving a good beam. "Difusa" Front Glass.

Dynamo, which is 6-volt, is an entirely new model and offers very little drag resistance. Trigger-action Release.

Dynamo Set, No. CD18, Ebony and Chromium, retail, 12/6

LATEST PATTERN DYNAMO LAMPS

NEW No. 507 SET

This set has the new No. 507 Head Lamp, light, attractive and strong. Correctly-shaped Parabolic Silvered Reflector. Dimming Switch, Main and Pilot Bulbs, space for standby dry battery. Ebony Black, Chromium-plated Rim, with Green Side Glasses. Front easily detachable for cleaning. Non-slip Locking Metal Bracket. No. C25HF Dynamo. No. 49 Rear Lamp with "Realite" Reflecting Glass. Cables and Bulbs. Supplied less battery.

PRICE. Dynamo Set, No. 507, retail ... 19/6

No. 507/6 SET

As No. 507 set except for Head Lamp No. 507/6, which has no provision for a battery and therefore no Switch or Pilot Bulb. The Bracket is slightly different.

Dynamo Set, No. 507/6, retail ... 17/6



LUCAS No. 507



LUCAS C25HF DYNAMO

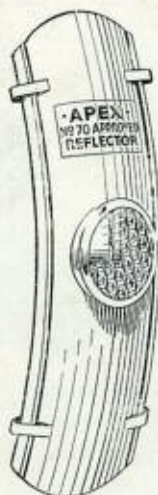
No. 304 DYNAMO SET

Bold, pleasing design. Lamp has Flash-lamp type Battery neatly housed behind Reflector. Green Side Glasses. Controlling Switch has three positions—"on," "battery," and "dim." Dimming device enables rider to dim his driving light when meeting oncoming traffic. Battery is switched on when the Dynamo is not generating, as when putting the Cycle away at night, or for roadside repairs, &c. Dynamo is 6-volt. Supplied less Battery.

Dynamo Set, No. 304, Ebony and Chromium, retail, 21/-

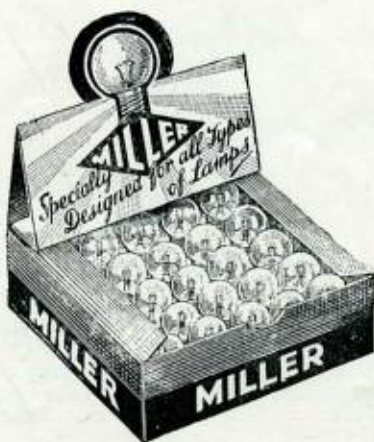


LUCAS C25HF DYNAMO



No. 70 "APEX" REFLECTOR PATCH

PRICE ... 9d. each.



MILLER LAMP BULBS

PRICE ... 3d. to 1/- each.



LUCAS DYNAMO MUDGUARD

A handy fitment designed to prevent mud being flung off the dynamo pulley on to the rider's clothes.

PRICE ... 6d. each.



No. 21 FAIRLIGHT REFLECTOR
Stay Fitting.

PRICE ... 8d. each.

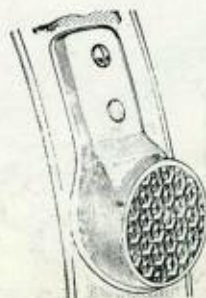


SPECIAL LONGLIGHT BATTERIES
Guaranteed up to standard voltage

Twincell. PRICE ... 6d. each.

Flat. PRICE ... 4d. each.

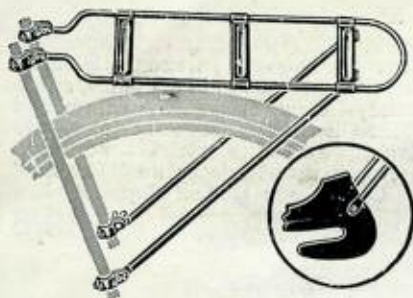
EVER-READY No. 800 BATTERY
PRICE ... 8d. each.



P & H No. 46 REFLECTOR

PRICE ... 7d. each.

ACCESSORIES (Various)



**DREADNOUGHT LIGHT-WEIGHT
SPORTS CARRIER**

No. 47.
PRICE 1/8



**SMITH'S SPEEDOMETER AND
MILES RECORDER**

Records the speed you are travelling
and the total mileage. For 26in. or
28in. wheels.
PRICE 19/6

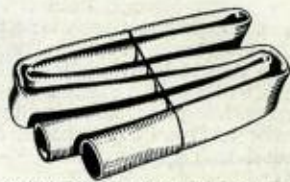


MIDLAND TOURING BAG SUPPORT
No. 910.
PRICE each 1/2



**COOPER STEWART MODEL C5
SPEEDOMETER
AND MILES RECORDER**

For 26in. or 28in. wheels. This model
records speed up to 40 miles per
hour, also total mileage.
PRICE 19/6



SHOCKSTOPS HANDLE BAR SLEEVING
28" Lengths
Colours. RED, BLACK, CREAM, GREEN & BLUE

No. 68.
PRICE pair 1/-

PRICE per length 1/-



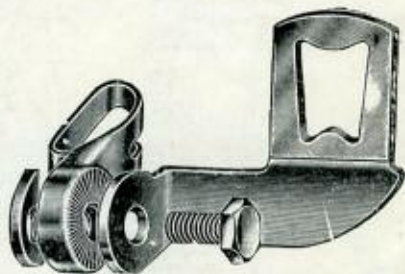
LUCAS GEM CYCLE LOCK

PRICE 2/-



THE RESILION ANCHOR BRAKE

Light and durable in action. Front
for D or taper forks. Chromium.
PRICE 5/6
Rear for 1/2in. or 3/4in. stays.
Chromium.
PRICE 5/6



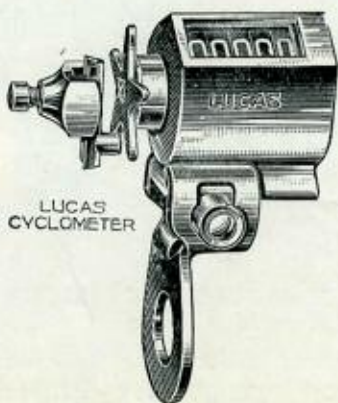
**DETACHABLE FORK LAMP
BRACKET**

For D or round forks. Black finish.
No. 21.
PRICE each 10 1/2d.



**BROOKES' ULTRA LIGHT-WEIGHT
TOE CLIP**

Chromium plated. With chrome
straps. No. 9.
PRICE pair 2/4



**LUCAS
CYCLOMETER**

For 26in. and 28in. Chromium plated.
PRICE each 2/11



SADDLE COVER

A new model, made specially to suit
a Terry type spring top saddle.
Well-padded. Supplied in best
quality fawn felt.
No. 764.
PRICE 1/9

TOURIST BAGS

MADE OF THE BEST MATERIALS FOR HARD WEAR



MODEL No. 1335.

Hidene Material. Two Front-fastening Straps. Cadmium-plated Patent Stud Fasteners. Box Girder Suspension. Two Saddle and one Pillar Straps.

Size, 13in. x 10½in. x 8in. to 6in. Each **7/-**
Cape Straps, 6d. per pair extra.



MODEL No. 682.

Black Rubber Drill. One Front-fastening Strap. Saddle Straps. Steel Stiffener.

Size, 10in. x 7½in. x 3½in. Each **1/6**



MODEL No. 1314.

High-grade Bag. Rubber-faced Material. Two Front-fastening Straps. Two Suspension and one Pillar Strap. Cadmium-plated Stud Fasteners. Two Side Pockets with Hooded Flaps, fitted with Straps for fastening. Size, 13in. x 8in. x 6½in. to 6in. Each **3/11**
Cape Straps, 6d. per pair extra.



MODEL No. 763.

Rubber-faced Material. Two Front-fastening Straps. Cadmium-plated Patent Stud Fasteners. Compo-plywood Lined Ends. Wire Cape Strap Loops. Two Suspension and one Seat Pillar Strap.

Size, 13in. x 9in. x 7in. to 5in. Each **5/6**
Cape Straps, 6d. per pair extra.



MODEL No. 181.

Black Waterproof Material. One Front-fastening Strap. Cadmium-plated Stud Fastener. Stiffened Ends.

Size, 9in. x 6in. x 7in. to 4½in. Each **2/3**



MODEL No. 765.

Hidene Material. Two Front-fastening Straps. Two Suspension and one Seat Pillar Strap. Cadmium-plated Stud Fasteners. Two Outside Pockets. Leather Protecting Belt.

Size, 13in. x 9in. x 7in. to 5in. Each **6/-**
No. 765L. All Leather. Each **9/-**
Specification as above.
Cape Straps, 6d. per pair extra.

ALL-WEATHER MODEL OILSKINS



P.17. The "ALL-WEATHER MODEL"

Velveteen Collar, Thumb Tabs, Waterproof Gusseted Neck Opening, Buckle and Strap at Neck, Wide Skirt—measuring 120in., in Black or Gold Oilskin.

39in. Price **13/6**

42in. Price **13/9**

LEGGINGS to match, 28in., 30in., 32in., with Clip Fastening.

Per pair **9/9**

P.30. The LIGHT-WEIGHT SPEEDMAN CAPE.

Self-collar Neck with Diagonal Opening which protects rider in heavy rain. Made in Gold and Black Oilskin.

42in. only Price **11/-**

LEGGINGS to match, 28in., 30in., 32in., with Clip Fastening.

Per pair **9/3**

P.33. The STANDARD

Recommended for hard wear. Storm Collar, Cross-over Fastening. Made in Black or Gold Oilskin.

39in. Price **9/-**

42in. Price **10/-**

If fitted with Zip Fastener at Neck, 2/- extra.

LEGGINGS to match, 28in., 30in., 32in., with Clip Fastening.

Per pair **8/9**

W.16. OILSKIN SOU'WESTERS

Black or Gold. Price **2/9**

COMPETITION SUITS, GOLD OR BLACK OILSKIN

Light Material, Standard Size. Good Quality Cheap Suits. Cape, Leggings, and Sou'wester. Three-piece complete.

Price **13/9**

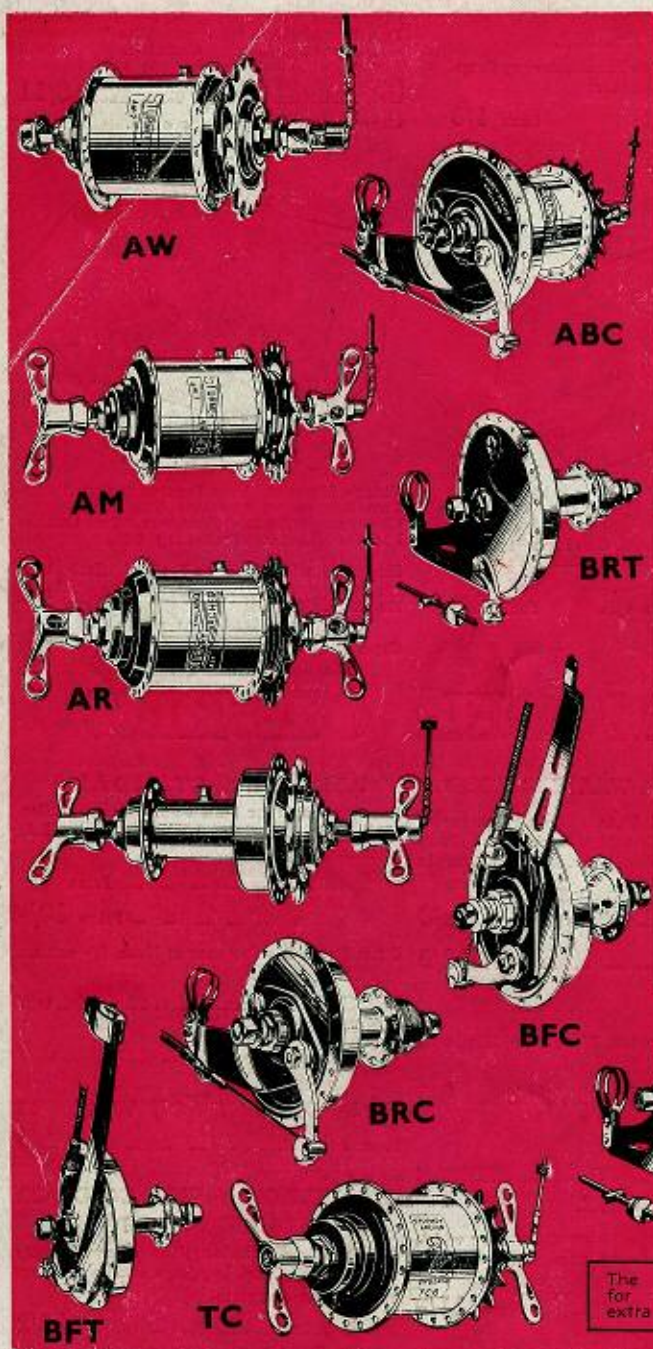
Cheaper Model Price **10/6**

WATERPROOF CLOTH PONCHOS AND LEGGINGS also in stock.

The Gears that Make Cycling easy



HUB GEARS & HUB BRAKES



We recommend Sturmev-Archer Hub Gears and Hub Brakes as fitments to our machines, as they provide a complete range of gears to suit every class of rider. Neat, light, totally enclosed, and oil bathed to ensure sweet and silky running, Sturmev-Archer Gears are renowned for their reliability under all riding conditions. Sturmev-Archer Expanding Brake Hubs are delightfully smooth in action, and the exceptional strength and durability of the mechanism ensures long life and absolute efficiency. An important feature is that the defacing of the rim is entirely eliminated.

RECORDS MADE WITH STURMEY-ARCHER GEARS BY FAMOUS RECORD HOLDERS

S. H. Ferris. Edinburgh-London: 20 hours 19 minutes—1 hour 30 minutes faster than previous time; Land's End-John o' Groats (860 miles): 2 days 6 hours 33 minutes—2 hours 28 minutes better than previous record; 1,000 miles: 2 days 22 hours 40 minutes—3 hours 12 minutes better than previous record.

Bert James. Liverpool-London record: 9 hours 27 minutes—beating previous record by 3 minutes; Won "100 Miles" record in 3 hours 45 minutes 51 seconds—beating previous time by nearly 10 minutes; London to York (200 miles): 8 hours 44 minutes. Also 12-hour record (250 miles), seven miles more than Southall's, and 17 miles more than Opperman's, both set up in 1934.

Charles Holland broke the Liverpool-Edinburgh record in 10 hours, beating the previous record by 12 minutes. For 210 miles he averaged the incredible speed of 21 m.p.h., much of it over difficult, hilly Scottish country.

AW 21/- 3-speed Hub. 33% increase, 25% reduction from normal. Suitable for all types of cycles.

ABC 27/6 Ratios as AW pattern Hubs. Incorporating a hand-operated internal expanding brake. Suitable for all types of cycles.

AM 23/- Medium Ratio 3-speed Hub. 15.55% increase, 13.46% decrease. Suitable for Sports and Racing Cycles.

TF 16/9 2-speed Hub. 25% reduction from normal. Supplied with either fixed or freewheel. Suitable for Sports, Tandem or Carrier Cycles. Adds 9lbs only to weight of machine.

AR 25/3 Close-Ratio 3-speed Hub. 7.24% increase, and 6.76% decrease. Specially suitable for Racing and Record Events. As used by Ferris in his "End to End" and 1,000 miles record rides.

BFC Front Hub with internal expanding brake. Suitable for all types of Solo Cycles.

BRC Rear single-speed Hub with internal expanding brake. Suitable for all types of Solo Cycles.

TC 16/9 Close-Ratio 2-speed Hub. 13.46% reduction from normal. Supplied with either fixed or freewheel. Essentially a hub for the sporting rider.

AT 28/6 Tandem 3-speed Hub. With internal expanding brake large diameter (4 3/4") brake drum. 33% increase and 25% decrease from normal. Suitable for all types of Tandems.

BFT Tandem Front Hub with internal expanding brake. Large diameter (4 3/4") brake drum.

BRT Tandem single-speed Rear Hub. Large diameter (4 3/4") brake drum. Suitable for Derailleur

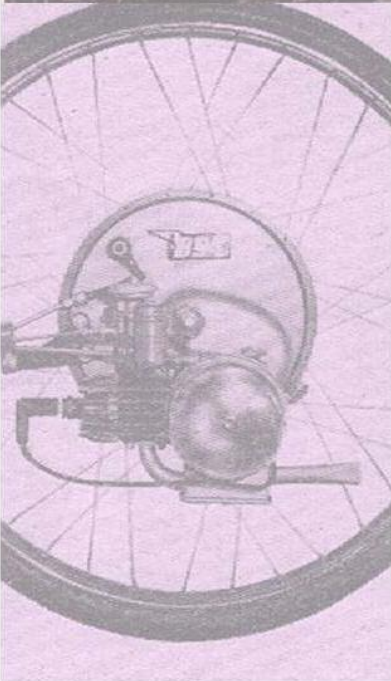
The prices quoted are for hubs fitted as an extra to a new machine

The New Sturmev-Archer Handle Bar Trigger Control can be used on any machine fitted with a Sturmev-Archer 3-speed Hub, at an extra charge of 3/-. This control provides an instantaneous change of gear by the flick of a finger.

The Brakes that Make Cycling safe.

Holders of over 50% of important British Road Records.

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