

FIFTY YEARS PROGRESS
1889-1939

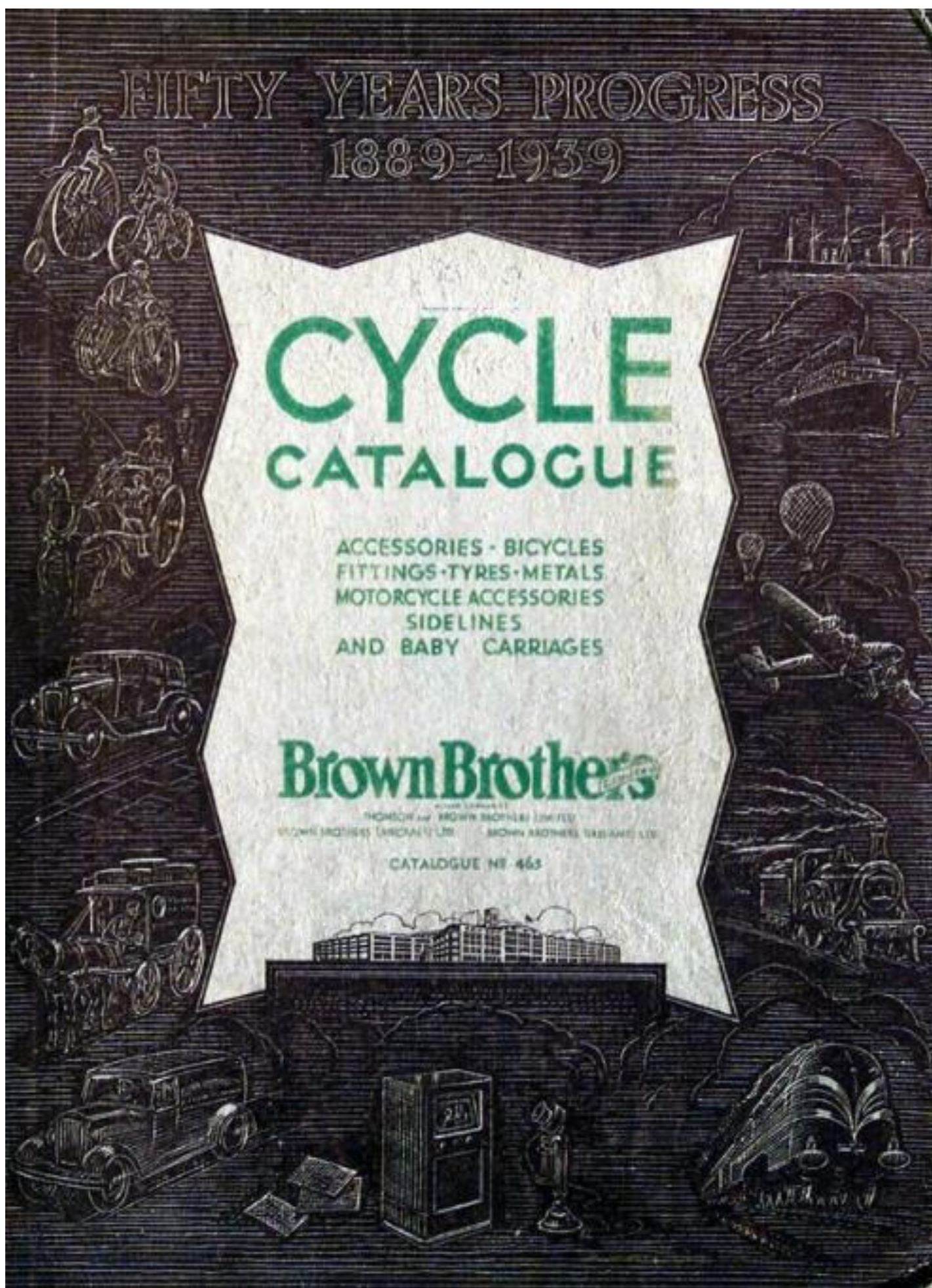
CYCLE CATALOGUE

ACCESSORIES - BICYCLES
FITTINGS - TYRES - METALS
MOTORCYCLE ACCESSORIES
SIDELINES
AND BABY CARRIAGES

Brown Brothers

INCORPORATED IN ENGLAND
THOMSON and BROWN BROTHERS LIMITED
BROWN BROTHERS (LONDON) LTD. BROWN BROTHERS (GLASGOW) LTD.

CATALOGUE NO. 463



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PLEASE ADDRESS ALL POSTAL COMMUNICATIONS FOR HEAD OFFICE TO : BROWN BROTHERS LTD., G.P.O. BOX 194, GREAT EASTERN STREET, LONDON, E.C.2
CODES: PREMIER, A B C (4th & 5th EDITIONS), LIEBER'S, WESTERN UNION, MARCONI'S INTERNATIONAL, BENTLEY'S, and MOTOR TRADE (S.M.P.L.)
Contractors to His Majesty's Government

1939 *Illustrated Catalogue of*

**CYCLE & MOTOR CYCLE
ACCESSORIES & FITTINGS
BICYCLES · TYRES · SIDELINES
BABY CARRIAGES**



The goods illustrated in this Catalogue are obtainable from all Cycle Dealers. A separate Catalogue is issued for Motor Accessories and Tools.



Brown Brothers

INCORPORATED IN GREAT BRITAIN
THOMSON and BROWN BROTHERS LIMITED

BROWN BROTHERS (AIRCRAFT) LTD. BROWN BROTHERS (IRELAND) LTD.

Head Offices and Warehouses (Wholesale and Export only)

Browns Buildings, GREAT EASTERN STREET, LONDON, E.C.2

126 GEORGE STREET, EDINBURGH, 2, AND BRANCHES

CORRESPONDENCE IN ALL LANGUAGES

HOURS OF BUSINESS: 8.40 a.m. till 6 p.m. (Saturdays, 8.40 a.m. till 1 p.m.)

These hours are subject to alteration without notice

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Printed in Great Britain



ADDRESS LABELS
 "MIDLAND" ADDRESS OR
 IDENTIFICATION LABELS OR DISCS

Disc 2" Dia. with Leather Strap.
 For Cycles, Luggage, etc.
 On Display Cards of 1 dozen.
 No. 25/A30/200 per card 3/-

BALLS—(STEEL)

For GAMES, PIN TABLES, Etc.
 $\frac{1}{4}$ " dia.
 No. 25/B14/8 per doz. 1/-
 25/B14/906 per gross —
 25/B14/600 5 gross lots per gross —
 Special Prices quoted for quantities

For Adjusters, see "Chain Adjusters."
 For Acetylene Lamps, see "Lamps."
 For Axies, see "Bracket Spindles."
 For Bags, see "Tool Bags."
 Axies for Box Tricycles, see Hubs.



"B.B.L." BEST QUALITY STEEL BALLS. (British.)

No.	Size	Per gross.	No.	Size	Per gross.	No.	Size	Per gross.
25/B1d/4	$\frac{1}{8}$ " dia.	.. -/9	25/B1f/7	$\frac{1}{4}$ " dia.	.. 1/2	25/B1h/100	$\frac{1}{2}$ " dia.	.. 2/-
25/B1d/4	10 gross boxes	-/8	25/B1f/6	10 gross boxes	1/1	25/B1h/111	10 gross boxes	1/11
25/B1e/5	$\frac{3}{16}$ " dia.	.. 1/-	25/B1g/9	$\frac{3}{8}$ " dia.	.. 1/6	25/B1i/200	$\frac{3}{4}$ " dia.	.. 4/-
25/B1e/5	10 gross boxes	-/11	25/B1g/8	10 gross boxes	1/5	25/B1i/111	10 gross boxes	3/10

"HOFFMANN'S" BEST QUALITY STEEL BALLS (English sizes).

No.	Size	Per gross.	No.	Size	Per gross.	No.	Size	Per doz.
25/B5b/106	$\frac{1}{8}$ " dia.	3/-	25/B5h/102	$\frac{1}{4}$ " dia.	.. 2/4	25/B8d/8	$\frac{1}{2}$ "	per doz. 1/4
25/B5b/105	10 gross boxes	2/11	25/B5h/101	10 gross boxes	2/3	25/B8d/503	per gross	—
25/B5c/6	$\frac{3}{16}$ " dia.	.. -/11	25/B5k/107	$\frac{3}{8}$ " dia.	.. 3/2	25/B8e/9	$\frac{1}{2}$ "	per doz. 1/6
25/B5c/6	10 gross boxes	-/10	25/B5k/106	10 gross boxes	3/-	25/B8e/603	per gross	—
25/B5d/5	$\frac{1}{2}$ " dia.	.. -/11	25/B5l/203	$\frac{3}{4}$ " dia.	.. 4/6	25/B8g/10	$\frac{1}{2}$ "	per doz. 1/8
25/B5d/5	10 gross boxes	-/10	25/B5l/202	10 gross boxes	4/4	25/B8g/704	per gross	—
25/B5e/7	$\frac{3}{8}$ " dia.	.. 1/2	25/B8a/5	$\frac{1}{2}$ "	per doz. -/10	25/B8k/101	$\frac{3}{4}$ "	per doz. 2/2
25/B5e/6	10 gross boxes	1/1	25/B8a/210	per gross	—	25/B8k/911	per gross	—
25/B5f/8	$\frac{1}{2}$ " dia.	.. 1/5	25/B8b/6	$\frac{1}{2}$ "	per doz. 1/-	25/B8m/104	$\frac{1}{2}$ "	per doz. 2/8
25/B5f/8	10 gross boxes	1/4	25/B8b/307	per gross	—	25/B8m/1301	per gross	—
25/B5g/10	$\frac{3}{4}$ " dia.	.. 1/9	25/B8c/7	$\frac{1}{2}$ "	per doz. 1/2	25/B8n/200	$\frac{1}{2}$ "	per doz. 4/-
25/B5g/10	10 gross boxes	1/8	25/B8c/404	per gross	—	25/B8x/300	$\frac{1}{2}$ "	.. 6/-
						25/B9d/403	1"	.. 8/6

Prices of larger sizes quoted on application. Millimetre sizes can be obtained to special order in a few days.

Brass, Manganese-Bronze and Phosphor-Bronze Balls quoted for on application.

SUITABLE FOR:—

"New Departure," "Perry" and "B.W."

Coaster, standard models ($1\frac{1}{2}$ ").

No. 25/B17a/3	.. .. .	each -/6
25/B17a/202	per doz.	—

"New Departure," "Perry" and "B.W."

Coaster, standard models ($1\frac{1}{2}$ ").

No. 25/B17b/2	.. .. .	each -/4
25/B17b/107	per doz.	—

BALL RETAINERS (OR CAGES)

(Foreign.)



Prices include Steel Balls fitted complete.



BALL MAGNET.

For Workshop use. (Foreign)
 $4\frac{1}{2}$ " long x $\frac{1}{2}$ " diameter pointed.
 No. 25/B15/7 each 1/-

SUITABLE FOR:—

"Eadie" Coaster, standard models, small ($1\frac{1}{2}$ "), and "B.S.A." 3-Speed (large size) ($1\frac{1}{2}$ ").

No. 25/B18a/1	.. .. .	each -/3
25/B18a/104	per doz.	—

"Eadie" Coaster, standard models ($1\frac{1}{2}$ ").

No. 25/B18k/2	.. .. .	each -/4
25/B18k/109	per doz.	—

"B.S.A." 3-Speed (small size) ($1\frac{1}{2}$ ").

No. 25/B18m/1	.. .. .	each -/2
25/B18m/10	per doz.	—

Boxes containing Three Dozen assorted Ball Retainers or Cages complete, with Steel Balls fitted, comprising 6 stock patterns.
 No. 25/B19a/409 per box 7/6

Branches:
 Aberdeen, Ayles, Belfast
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Head Office and Warehouse, Wholesale only

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134 GEORGE STREET, EDINBURGH, 2

Branches:
 Hull, Leeds, Liverpool
 London, W.1
 Manchester, Newcastle
 Nottingham, Southampton
 Stockport, Tyneside
 Wolverhampton

BELLS—continued—"LUCAS"



LUCAS "CHALLIS"
3" stamped brass dome.
Nickel Plated (No. 50).

- No. 25/B121a/109 each 2/4
25/B121a/2000 Lots of 12. per doz. —
25/B121a/1808 36. " " —
Ebony (No. 50cb).
No. 25/B121b/109 each 2/4
25/B121b/2000 Lots of 12. per doz. —
25/B121b/1808 36. " " —
Chromium Plated (No. 50cp)
No. 25/B121c/110 each 2/6
25/B121c/2100 Lots of 12. per doz. —
25/B121c/2000 36. " " —



LUCAS "CHALLIS"
3" stamped steel dome.
With two-screw clip.

- Nickel Plated (No. 30).
No. 25/B121g/100 each 1/4
25/B121g/1100 Lots of 12. per doz. —
25/B121g/1008 36. " " —
Ebony (No. 30cb).
No. 25/B121h/100 each 1/4
25/B121h/1100 Lots of 12. per doz. —
25/B121h/1008 36. " " —
Chromium Plated (No. 30cp).
No. 25/B121k/101 each 1/6
25/B121k/1200 Lots of 36. per doz. —



LUCAS BELL METAL DOME BELLS
"King of Bells," 2 1/2" dome.
Chromium Plated (No. 61cp).

- No. 25/B124c/204 each 3/3
25/B124c/2600 Lots of 12. per doz. —
Lucas "Baby," 2 1/2" dome.
Nickel Plated (No. 62).
No. 25/B123a/111 each 2/9



"LUCAS" CHALLIS DOUBLE LEVER
TRIGGER BELLS, No. 50DL

- 3" Stamped Brass Dome, Chromium-plated.
No. 25/B121f/202 each 3/3
25/B121f/2400 Lots of 12. per doz. —



LUCAS "L. S. D."

- 3 1/2" bell metal dome.
Nickel Plated (No. 65).
No. 25/B124e/408 each 6/6



LUCAS "BURBURY"

1 1/4" bell metal dome, with hand clip.

- Nickel Plated (No. 73).
No. 25/B127k/103 each 1/9
25/B127k/1304 Lots of 36. per doz. —
Ebony (No. 73b).
No. 25/B127l/103 each 1/9
25/B127l/1304 Lots of 36. per doz. —
Chromium Plated (No. 73cp).
No. 25/B127m/104 each 1/11
25/B127m/1404 Lots of 36. per doz. —



LUCAS REVOLVING CHIME

2 1/2" dome.

- Ebony (No. 32cb).
No. 25/B124x/206 each 3/6
25/B124x/2800 Lots of 12. per doz. —
Chromium Plated (No. 32cp).
No. 25/B124z/210 each 4/-
25/B124z/3200 Lots of 12. per doz. —



LUCAS "BURBURY"

2 1/2" bell metal dome.

- Nickel Plated (No. 82).
No. 25/B127b/107 each 2/3
25/B127b/1800 Lots of 24. per doz. —
Ebony (No. 82cb).
No. 25/B127c/107 each 2/3
25/B127c/1800 Lots of 24. per doz. —
Chromium Plated (No. 82cp).
No. 25/B127d/109 each 2/5
25/B127d/2000 Lots of 24. per doz. —

Branche
Aberdeen, Ajaccio, Bath
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Glasgow, Inverness

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124 GEORGE STREET, EDINBURGH, 3

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London, W.1
Manchester, Newcastle
Nottingham, Southampton
Sunderland
Waterbury

BRACKET CUPS AND LOCK RINGS—(FOR COTTERLESS BRACKETS)



"B.B.L."

BEST QUALITY BRACKET CUPS

Drilled with Right-hand thread.
Drilled (for Pin Spanner Adjustment).
For Cottered Brackets. $1\frac{1}{2}$ " x 24 thread.

No. "B.B.L." Best Quality.
25/B491a/294 Chromium .. per doz. 3/6
25/B491b/291 Nickel 3/3
25/B491b/3400 .. per gross —

$1\frac{1}{2}$ " (full) x 24 thread (slightly over-size) for use with bracket shells with worn threads.

No. 25/B491c/306 Nickel Plated per doz. 5/-

"B.W." $1\frac{1}{2}$ " x 24 thread.

No. 25/B492a/303 Dull Chromium per doz. 4/6
25/B492b/303 Nickel 4/6

"Brampton." $1\frac{1}{2}$ " x 24 thread.

No. 25/B493p/306 Dull Chromium (924200) 4/8

"B.B.L."
BEST QUALITY BRACKET
CUPS FOR RALEIGH

$1\frac{1}{2}$ " x 26 threads milled with two flats for spanner.

For 1937-9 models.

Right-hand as Raleigh pattern No. 59.

No. 25/B495g/4 each -/6

Left-hand as Raleigh pattern No. 510.

No. 25/B495b/4 each -/6

Lock Rings to suit above as Raleigh pattern No. P207. With 4 slots.

No. 25/B528r/200 .. doz. 3/-



"Brampton." Extra Deep.

No. 25/B504m/311 Dull Chromium (924204) 5/2

For Tandem. $1\frac{1}{2}$ " x 26 thread.

No. 25/B504x/402 Chromium (925621) .. 5/6

No. "B.S.A." Genuine. per doz. 11/-
25/B505c/303 Chromium 11/-

$1\frac{1}{2}$ " x 24 left-hand thread.

"B.B.L." Best Quality. (Pinhole.)

No. Standard Size. per doz.
25/B531a/304 Nickel Plated .. 5/-

25/B531b/304 Black 5/-

25/B531c/309 Chromium 5/6

No. Nickel Plated. per doz.
25/B531p/606 "Oversize" .. 9/6

No. "B.W." (With Two Flats.) per doz.

25/B533a/400 Nickel Plated .. 5/6

25/B533c/400 Dull Chromium .. 5/6

Branches:
Aberdeen, Aston, Belfast
Birmingham, Southampton
Bristol, Cardiff, Carlisle
Croydon, Dublin, Dundee
Exeter, Glasgow
London, Manchester



BRACKET CUPS. ADJUSTING

For Cotterless Brackets.

$1\frac{1}{2}$ " x 24 right-hand thread.

"B.B.L." Best Quality.

No. Standard Size.

25/B501a/202 Nickel Plated per doz. 3/3

25/B501b/202 Black 3/3

25/B501c/206 Chromium 3/9

25/B501p/300 "Oversize" Nickel Plated 8/-

No. "B.W."

25/B503a/307 Nickel Plated per doz. 5/-

25/B503c/307 Dull Chromium .. 5/-

No. "Brampton." per doz.

25/B504b/306 All Black (928202) .. 4/8

25/B504c/306 Dull Chromium (924202) 4/8

"Chater Lea" Genuine.

For Safety Carrier Tricycle, and all Rear Tandem or 14a Front Tandem.

$1\frac{1}{2}$ " x 26 right-hand thread x $\frac{1}{2}$ " deep.

No. with 6 pinholes for adjusting.

25/B507a/1103 Nickel Plated per doz. 15/-

25/B507c/1209 Chromium .. 17/-

For Front Tandem Eccentric Brackets Adjustment.

$1\frac{1}{2}$ " x 26 left-hand thread x $\frac{1}{2}$ " deep.

with 2 pinholes for fixed.

No. To suit No. 12b and 15a Models.

25/B507n/1209 Chromium per doz. 17/-

$1\frac{1}{2}$ " x 26 right-hand thread x $\frac{1}{2}$ " deep.

with 2 pinholes for fixed.

No. To suit No. 14 Model.

25/B507s/1209 Chromium per doz. 17/-

$1\frac{1}{2}$ " x 26 left-hand thread x $\frac{1}{2}$ " deep.

with 6 pinholes for adjusting.

No. To suit No. 14 Model.

25/B507x/1209 Chromium per doz. 17/-



BRACKET CUPS FLANGED

For Cotterless Brackets.

$1\frac{1}{2}$ " x 24 left-hand thread.

"Brampton." (Pinhole.)

No. per doz.

25/B534c/403 Dull Chromium 924201 5/8

Extra Deep. (With Two Flats.)

No. per doz.

25/B534m/403 Dull Chromium 924203 5/8

For Tandem. $1\frac{1}{2}$ " x 26 thread.

(With Two Flats and Two Pinholes.)

No. per doz.

25/B534x/508 Chromium 925620 7/6

Head Office and Warehouses, Watneys only



LOCK RINGS

(for Adjusting Cups).

"B.B.L." Best Quality. (Slotted.)

No. Standard Size. per doz.

25/B521a/103 Nickel Plated .. 1/9

25/B521b/103 Black .. 1/9

25/B521c/108 Chromium .. 2/6

No. Nickel Plated. per doz.

25/B521p/400 "Oversize" .. 6/-

No. "B.W." (Slotted.)

25/B523a/106 Nickel Plated .. 2/-

25/B523c/106 Dull Chromium .. 2/-

No. "Brampton." (Slotted.) doz.

25/B524b/111 All Black 918075 2/6

25/B524c/200 Dull Chromium 914075 2/8

No. For Tandem. per doz.

25/B524x/208 Chromium 915620 3/6

"B.S.A." Genuine. (Pinhole.)

25/B525c/402 Chromium .. 5/6

"Chater Lea" Genuine. (Pinhole.)

For Safety, Tandem and Carrier Tricycle.

No. Right-hand thread.

25/B527a/600 Nickel Plated doz. 8/-

25/B527c/609 Chromium .. 9/-

For Front Tandem Brackets, Eccentric Adjustment.

Left-hand thread to suit No. 14 Model Tandem Front Bracket.

No. 25/B527x/609 Chromium doz. 9/-

"BAYLISS-WILEY" BRACKET
CUPS AND LOCK RINGS FOR
"B.W." PATENT OIL BATH
UNIT BRACKET SET

Black Gun Finish.

$1\frac{1}{2}$ " x 24 right-hand thread. $\frac{1}{2}$ " deep with 4 pinholes for adjusting.

No. 25/B503e/4 each -/6

Lock Ring, slotted with very slight tapered edge flange for above.

No. 25/B523e/3 each -/6

$1\frac{1}{2}$ " x 24 left-hand thread. $\frac{1}{2}$ " deep double flanged, inner flange with slight tapered edge and outer flange with two flats.

No. 25/B533e/6 each -/6

"B.S.A." Genuine. (With Two Flats.)

$1\frac{1}{2}$ " x 24 left-hand thread.

No. per doz.

25/B535c/1000 Chromium .. 13/-

"Chater Lea" Genuine. (With Two Flats.)

For Safety, Carrier Tricycle, and Rear Tandem or No. 14a Front Eccentric. $1\frac{1}{2}$ " x 26 left-hand thread.

No. 25/B537a/1103 Nickel Plated doz. 15/-

25/B537c/1209 Chromium .. 17/-

Branches:
Hull, Leeds, Liverpool
London, W.1
Manchester, Newcastle
Plymouth, Southampton
Stoke-on-Trent
Wolverhampton

GREAT EASTERN STREET, LONDON, E.C.2

126 GEORGE STREET, EDINBURGH, 1

BRACKET CUP DRIVER, BRACKET SHELLS



"MILLENNIUM" BRACKET
CUP DRIVER OR REMOVER

Complete with Spanner.

The large square to screw cup in, and the smaller square to screw cup out. Takes all standard bottom bracket cups.

No. 25/B602a/600 each 8/-

Spanner only for above.

No. 25/B602d/203 each 3/-



FOR GRANBY TAPER TUBE
FRAMES

Size $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1'' \times 1\frac{1}{2}''$ C.L.

For Standard Sets

68° and 59 $\frac{1}{2}$ ° $\times 10\frac{1}{2}''$ high.

Screwed $1\frac{1}{2}'' \times 24$ for B.S.A. or Brampton.

No. 25/B689c/209 Plain .. each 4/3
25/B689d/300 Fish-tailed .. 4/6

Screwed $1\frac{1}{2}'' \times 26$ for Chater Lea.

No. 25/B689g/300 Plain .. each 4/6
25/B689h/303 Fish-tailed .. 4/9

For Upright Sets

63° and 64° $\times 10\frac{1}{2}''$ high.

Size $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1'' \times 1\frac{1}{2}''$ C.L.

Screwed $1\frac{1}{2}'' \times 24$ thread for B.S.A. and Brampton.

No. 25/B680k/209 Plain .. each 4/3

Size $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1'' \times 1\frac{1}{2}''$ C.L.

Screwed $1\frac{1}{2}'' \times 24$ for B.S.A. or Brampton.

No. 25/B680m/209 Plain .. each 4/3
25/B680n/300 Fish-tailed .. 4/6

Screwed $1\frac{1}{2}'' \times 26$ for Chater Lea.

No. 25/B680s/300 Plain .. each 4/6
25/B680t/303 Fish-tailed .. 4/9



BRACKET CUP, DRIVER
OR REMOVER

Suitable for use with Cottered or Cotterless Cups.

No. 25/B603/609 each 10/-

BRACKET SHELLS (COTTERLESS)

"B.B.L." Best Quality.

Size: $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1'' \times 1\frac{1}{2}''$ C.L. 67° $\times 62''$

No. 25/B673c/101 Plain .. each 1/9

For Upright Sets

Size $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1\frac{1}{2}''$ C.L. 61° $\times 65''$,
10 $\frac{1}{2}''$ high.

For $\frac{1}{2}''$ Stays.

No. 25/B673m/101 Plain .. each 1/9
25/B673n/103 Fish-tailed .. 2/-

For 1" Stays.

No. 25/B673p/101 Plain .. each 1/9
25/B673t/103 Fish-tailed .. 2/-

"BRAMPTON" COTTERLESS

For Standard Sets

Size $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1'' \times 1\frac{1}{2}''$ C.L.

68° and 59 $\frac{1}{2}$ °. (830210.)

No. 25/B688a/103 Plain .. each 1/8
25/B688b/105 Fish-tailed .. 1/10

67° and 63°. (830208.)

No. 25/B688c/103 Plain .. each 1/8
25/B688d/105 Fish-tailed .. 1/10

67° and 58 $\frac{1}{2}$ °. (830209.)

No. 25/B688e/103 Plain .. each 1/8
25/B688f/105 Fish-tailed .. 1/10

For Upright Sets

Size $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1\frac{1}{2}''$ C.L. 10 $\frac{1}{2}''$ High.

63° $\times 61\frac{1}{2}''$ Fish-tailed.

For $\frac{1}{2}''$ Chain Stays (No. 830215).

No. 25/B688r/103 each 1/8

For 1" Chain Stays (No. 830214).

No. 25/B688t/105 each 1/10



BRACKET SHELLS (COTTERED)
"B.B.L." Best Quality. 67° $\times 62''$.

Size: $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1'' \times 1\frac{1}{2}''$ C.L.

No. 25/B671c/103 each 2/-

Size: $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1'' \times 1\frac{1}{2}''$ C.L.

No. 25/B671e/103 each 2/-

Size: $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1'' \times 1\frac{1}{2}''$ C.L.

No. 25/B671f/100 each 2/-

"B.S.A." BRACKET SHELLS

Size: $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1'' \times 1\frac{1}{2}''$ C.L. Patt. A.
No. 25/B676a/209 each 3/7



"B.W." PATENT OIL BATH UNIT

Comprising sleeve fitted with two black finish bracket cups, lock ring, steel balls and chromium bracket spindle complete.

No. 25/B675a/200 $1\frac{1}{2}''$ C.L. .. each 2/9
25/B675b/202 $1\frac{1}{2}''$ C.L., G.C.C. .. 3/-

BRACKET (COTTERLESS) WITH
PLAIN SHELL, UNSCREWED BODY

Specially to suit "B.W." Patent Oil Bath Bracket Unit.

Size: $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1'' \times 1\frac{1}{2}''$ C.L.

No. 25/B674/102 each 1/9



"B.W." BOTTOM BRACKET
REAMER

For clearing existing $1\frac{1}{2}''$ diameter screwed bracket shells.

No. 25/B675r/1709 each 25/-

Branches:
Aberdeen, Ayr, Belfast
Birmingham, Southampton
Bristol, Cardiff, Colchester
Croydon, Dublin, Dundee
Exeter, Glasgow, Edinburgh
Glasgow, Inverness

Head Office and Warehouse, Wholesale only

GREAT EASTERN STREET, LONDON, E.C.2

125 GEORGE STREET, EDINBURGH, 3

Branches:
Hull, Leeds, Liverpool
London, W.1
Manchester, Newport
Nottingham, Southampton
Sheffield, Tynes
Wolverhampton

BRACKET SHELLS—continued

**"BRAMPTON" COTTERLESS**

Size $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1'' \times 1\frac{1}{2}''$ C.L.
67° and 62°. (No. 830203.)

No. 25/B686k/10 each 1/3

"B.S.A." GENUINE BRACKET SHELLS (Cotterless)

Size $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1'' \times 1\frac{1}{4}''$ C.L.

No. 25/B677a/209 Patt. A/D .. each 3/7

Size $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1'' \times 1\frac{1}{2}''$ C.L.

No. 25/B677d/209 Patt. B/D .. each 3/7

For Rigid Sets, with Straight Chain Stays.

Size $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1'' \times 1\frac{1}{2}''$ C.L. Patt. A72.

No. 25/B678c/209 For Model 30 .. each 3/7

Size $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1'' \times 1\frac{1}{2}''$ C.L. Patt. A73.

No. 25/B678d/209 For Model 32 .. each 3/7

**TANDEM REAR BRACKET SHELL**

"Brampton."

For bottom, seat and extension tubes.

Size $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1\frac{1}{2}''$ C.L.

Suitable for 20 $\frac{1}{4}$ " frames.

112° and 61 $\frac{1}{2}$ ". (No. 830645.)

No. 25/B692a/109 Plain .. each 2/4

Size $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1\frac{1}{2}''$ C.L.

Suitable for 22" frames.

112° and 61". (830641.)

No. 25/B692c/109 Plain .. each 2/4

25/B692d/111 Fish-tailed .. 2/6

"Chater Lea."

For No. 12B $\times 1\frac{1}{2}''$ C.L. Size $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1\frac{1}{2}''$.

(No. 1239-3.)

No. 25/B706a/208 Plain .. each 3/6

25/B706b/209 Fish-tailed .. 3/8

For No. 15A $\times 1\frac{1}{2}''$ C.L. (No. 1239-2.)

No. 25/B706e/305 Plain .. each 4/6

25/B706f/307 Fish-tailed .. 4/9

**"CHATER LEA"**

For No. 14 $\times 1\frac{1}{2}''$ C.L., or 14A $\times 1\frac{1}{2}''$ C.L.

Size $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1''$. (No. 1239.)

No. 25/B706m/203 Plain .. each 3/-

25/B706n/205 Fish-tailed .. 3/2

**TANDEM FRONT BRACKET SHELL**

"Brampton."

Size $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1\frac{1}{2}''$ C.L.

67° and 68°. (830640.)

No. 25/B691c/203 Plain .. each 3/-

25/B691d/206 Fish-tailed .. 3/4

Size $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1\frac{1}{2}''$ C.L.

64° and 66°. (830643.)

No. 25/B691e/203 Plain .. each 3/-

25/B691f/206 Fish-tailed .. 3/4

"Chater Lea."

Size $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1\frac{1}{2}''$.

For Nos. 12B and 15A $\times 1\frac{1}{2}''$ C.L.

No. 929.

No. 25/B705a/209 Plain .. each 3/8

25/B705b/300 Fish-tailed .. 4/-

For No. 14 $\times 1\frac{1}{2}''$ C.L., or 14A $\times 1\frac{1}{2}''$ C.L.

Size $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1\frac{1}{2}''$. No. 929-1.

No. 25/B705e/209 Plain .. each 3/8

25/B705f/300 Fish-tailed .. 4/-

For No. 90 or 92 Upright Model.

Size $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1\frac{1}{2}''$ C.L. No. 1581.

No. 25/B705g/209 Plain .. each 3/8

25/B705h/300 Fish-tailed .. 4/-

**"BRAMPTON" TANDEM FRONT ECCENTRIC BRACKET SLEEVE**

With Ball Type Lubricator.

For 64° or 67 $\frac{1}{2}$ " Wheel-base Tandems.

Chromium Plated.

No. 25/B693b/309 (955601) .. each 4/-

"Chater Lea"

Front Eccentric Bracket Sleeve.

For No. 14A, 42, 90 and 92 Tandem Sets.

(No. 1004-2.)

Chromium Plated.

No. 25/B705x/402 each 5/6

**"CHATER LEA" TANDEM REAR BRACKET SHELL**

No. 1582.

For No. 90 or 92 Upright Model.

Size $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1''$ Oval to Round

Chain Stay $\times 1\frac{1}{2}''$ C.L.

No. 25/B706s/307 Plain .. each 4/9

25/B706t/309 Fish-tailed .. 4/11

**"CHATER LEA" GENUINE BRACKET SHELLS**

For Safety Rigid Sets.

For Upright Sets.

Size $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1\frac{1}{2}''$ C.L. (No. 1563-1.)

Height 10 $\frac{1}{2}$ ", 61 $\frac{1}{2}$ " and 65".

For $\frac{1}{2}$ " Stays.

No. 25/B698a/106 Plain .. each 2/-

25/B698b/108 Fish-tailed .. 2/3

For $\frac{1}{2}$ " Stays. (No. 1563.)

No. 25/B698c/106 Plain .. each 2/-

25/B698f/108 Fish-tailed .. 2/3

For Standard Sets.

Size $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1'' \times 1\frac{1}{2}''$ C.L.

Height 10 $\frac{1}{2}$ ", 64 $\frac{1}{2}$ " and 60". (No. 917-3.)

No. 25/B703a/106 Plain .. each 2/-

25/B703b/108 Fish-tailed .. 2/-

Size $1\frac{1}{2}'' \times 1'' \times 1\frac{1}{2}''$ C.L.

Height 10 $\frac{1}{2}$ ", 66° and 60". (No. 917-2.)

No. 25/B704a/106 Plain .. each 2/-

25/B704b/108 Fish-tailed .. 2/-

**"BRAMPTON" TANDEM REAR BRACKET SHELL**

For bottom, loop, seat and extension tubes, suitable for lady's 20" or 21" frame or double diamond frame.

Size $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1\frac{1}{2}''$ C.L.

45° or 67° $\times 61\frac{1}{2}$ ". (830642.)

No. 25/B692f/111 Plain .. each 2/-

25/B692g/202 Fish-tailed .. 2/-

Size $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1\frac{1}{2}''$ C.L.

48° $\times 64\frac{1}{2}$ $\times 66\frac{1}{2}$ ". (830644.)

No. 25/B692h/111 Plain .. each 2/-

25/B692k/202 Fish-tailed .. 2/-

No. 25/B692i/111 Plain .. each 2/-

25/B692l/202 Fish-tailed .. 2/-

No. 25/B692j/111 Plain .. each 2/-

25/B692m/202 Fish-tailed .. 2/-

No. 25/B692n/111 Plain .. each 2/-

25/B692o/202 Fish-tailed .. 2/-

No. 25/B692p/111 Plain .. each 2/-

25/B692q/202 Fish-tailed .. 2/-

No. 25/B692r/111 Plain .. each 2/-

25/B692s/202 Fish-tailed .. 2/-

No. 25/B692t/111 Plain .. each 2/-

25/B692u/202 Fish-tailed .. 2/-

No. 25/B692v/111 Plain .. each 2/-

25/B692w/202 Fish-tailed .. 2/-

No. 25/B692x/111 Plain .. each 2/-

25/B692y/202 Fish-tailed .. 2/-

No. 25/B692z/111 Plain .. each 2/-

25/B692aa/202 Fish-tailed .. 2/-

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BRACKET SPINDLES



A = Length from race to end of spindles for left hand crank.

B = Centres.

C = Length from race to end of spindles for right hand crank.



"BRAMPTON'S"

Nickel Plated Finish. For Pinhole Cups.

- 1 1/2" C.L. A 1 1/2" x B 1 1/2" x C 1 1/2". No. 25/B883a/803 (943000) per doz. 11/-
- 1 1/2" C.L. G.C.C. A 1 1/2" x B 1 1/2" x C 1 1/2". No. 25/B883c/803 (943002) per doz. 11/-

Chromium Plated Finish. For Pinhole Cups.

- 1 1/2" C.L. A 1 1/2" x B 1 1/2" x C 1 1/2". No. 25/B842a/803 (945000) per doz. 11/-
- 1 1/2" C.L. G.C.C. A 1 1/2" x B 1 1/2" x C 1 1/2". No. 25/B842c/803 (945002) per doz. 11/-
- 1 1/2" C.L. G.C.C. A 1 1/2" x B 2 1/2" x C 1 1/2". No. 25/B842m/900 (945004) per doz. 12/-

For Milled or Cotterless Cups.

- 1 1/2" C.L. A 1 1/2" x B 2 1/2" x C 1 1/2". No. 25/B843a/803 (945001) per doz. 11/-
- 1 1/2" C.L. G.C.C. A 1 1/2" x B 2 1/2" x C 1 1/2". No. 25/B843c/803 (945003) per doz. 11/-

CHROMIUM PLATED FOR TANDEMS

- 1 1/2" C.L. A 1 1/2" x B 1 1/2" x C 1 1/2". For Front. (945600). No. 25/B845b/1103 .. per doz. 15/-
- 1 1/2" C.L. A 1 1/2" x B 2 1/2" x C 1 1/2". For Rear. (945602). No. 25/B845c/1103 .. per doz. 15/-

"BAYLISS-WILEY."

For Pinhole Cups. N.P.

- 1 1/2" C.L. A 1 1/2" x B 1 1/2" x C 1 1/2". No. 25/B826b/706 (No. 11) per doz. 10/6
- 1 1/2" C.L. G.C.C. A 1 1/2" x B 1 1/2" x C 1 1/2". No. 25/B826c/706 (No. 10) per doz. 10/6

Chromium Plated.

- 1 1/2" C.L. A 1 1/2" x B 1 1/2" x C 1 1/2". No. 25/B827a/706 (No. 1) per doz. 10/6
- 1 1/2" C.L. A 1 1/2" x B 1 1/2" x C 1 1/2". No. 25/B827b/706 (No. 11) per doz. 10/6
- 1 1/2" C.L. G.C.C. A 1 1/2" x B 1 1/2" x C 1 1/2". No. 25/B827c/706 (No. 10) per doz. 10/6
- 1 1/2" C.L. G.C.C. A 1 1/2" x B 1 1/2" x C 1 1/2". No. 25/B827d/706 (No. 2) per doz. 10/6
- 1 1/2" C.L. G.C.C. A 1 1/2" x B 2 1/2" x C 1 1/2". No. 25/B827e/800 (No. 12) per doz. 11/6

For Carrier Cycles (No. 3)

- 1 1/2" C.L. G.C.C. A 1 1/2" x B 2 1/2" x C 1 1/2". No. 25/B827h/800 .. per doz. 11/6
- For Milled or Cotterless Cups. N.P. 1 1/2" C.L. A 1 1/2" x B 2 1/2" x C 1 1/2". No. 25/B828b/706 (No. 15) per doz. 10/6

Chromium Plated.

- 1 1/2" C.L. G.C.C. A 1 1/2" x B 2 1/2" x C 1 1/2". No. 25/B829c/706 (No. 14) per doz. 10/6
- 1 1/2" C.L. A 1 1/2" x B 2 1/2" x C 1 1/2". No. 25/B829b/706 (No. 15) per doz. 10/6
- 1 1/2" C.L. G.C.C. A 1 1/2" x B 2 1/2" x C 1 1/2". No. 25/B829d/706 (No. 2c) per doz. 10/6
- 1 1/2" C.L. G.C.C. A 1 1/2" x B 2 1/2" x C 1 1/2". No. 25/B829g/706 (No. 8) per doz. 10/6

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GREAT EASTERN STREET, LONDON, E.C.2

126 GEORGE STREET, EDINBURGH, 2

- "B.B.L." BEST QUALITY
Nickel Plated. For Pinhole Cups.
- 1 1/2" C.L. A 1 1/2" x B 1 1/2" x C 1 1/2". No. 25/B810b/7 .. each -/9 1/2
 - 25/B810b/609 .. per doz. —
 - 1 1/2" C.L. G.C.C. A 1 1/2" x B 1 1/2" x C 1 1/2". No. 25/B810c/7 .. each -/9 1/2
 - 25/B810c/609 .. per doz. —
 - 1 1/2" C.L. A 1 1/2" x B 2 1/2" x C 1 1/2". No. 25/B810d/8 .. each 1/-
 - 25/B810d/706 .. per doz. —
 - 1 1/2" C.L. G.C.C. A 1 1/2" x B 2 1/2" x C 1 1/2". No. 25/B810e/8 .. each 1/-
 - 25/B810e/706 .. per doz. —

For Cotterless Cups.

- 1 1/2" C.L. A 1 1/2" x B 2" x C 1 1/2". No. 25/B812b/7 Nickel .. each -/9 1/2
- 25/B812b/609 .. per doz. —
- 1 1/2" C.L. G.C.C. A 1 1/2" x B 2" x C 1 1/2". No. 25/B812c/7 Nickel .. each -/9 1/2
- 25/B812c/609 .. per doz. —
- 1 1/2" C.L. A 1 1/2" x B 2" x C 1 1/2". No. 25/B813b/7 Chromium .. each -/10
- 25/B813b/700 .. per doz. —
- 1 1/2" C.L. G.C.C. A 1 1/2" x B 2" x C 1 1/2". No. 25/B813c/7 Chromium .. each -/10
- 25/B813c/700 .. per doz. —

For Hercules Standard. (I.2).

- 1 1/2" C.L. G.C.C. A 1 1/2" x B 2" x C 1 1/2". No. 25/B814b/10 Chromium .. each 1/3
- 25/B814b/906 .. per doz. —

For Hercules Carrier. (I.1).

- 1 1/2" C.L. G.C.C. A 1 1/2" x B 2 1/2" x C 1 1/2". No. 25/B814k/11 Chromium .. each 1/5
- 25/B814k/1006 .. per doz. —

Specially suitable for Raleigh Cycles. Chromium Plated. For Cotterless Cups.

- A 1 1/2" x B 2 1/2" x C 1 1/2" (U). No. 25/B816a/100 .. each 1/6
- A 1 1/2" x B 2 1/2" x C 1 1/2" (U1). No. 25/B816b/100 .. each 1/6
- A 1 1/2" x B 2 1/2" x C 1 1/2" (U2). No. 25/B816c/100 .. each 1/6
- A 1 1/2" x B 2 1/2" x C 1 1/2" (U3). No. 25/B816d/100 .. each 1/6
- A 1 1/2" x B 2" x C 1 1/2" (U4). No. 25/B816e/100 .. each 1/6
- A 1 1/2" x B 2" x C 1 1/2" (U5). No. 25/B816f/100 .. each 1/6
- A 1 1/2" x B 2 1/2" x C 1 1/2" (U6). No. 25/B816g/100 .. each 1/6
- A 1 1/2" x B 2 1/2" x C 1 1/2" (U7). No. 25/B816h/100 .. each 1/6

For 1937/9 Models.

As Raleigh Pattern A8.

- A 1 1/2" x B 2 1/2" x C 1 1/2". No. 25/B816L/100 .. each 1/6

As Raleigh Pattern A16.

- A 1 1/2" x B 2 1/2" x C 1 1/2". No. 25/B816m/100 .. each 1/6
- As Raleigh Pattern A16 G.C.C. A 1 1/2" x B 2 1/2" x C 1 1/2". No. 25/B816n/100 .. each 1/6

Above spindles are plain from end to race, without shouldered ends.

Branches:
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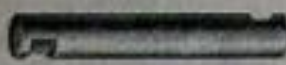
Suitable for various makes of machines.

- 21 Humber, old pattern (wide), G.C.C.
- 21a " " (narrow), G.C.C.
- 33a Rudge, modern.
- 36 Raleigh, roadster, G.C.C. (old pattern).
- 63 Sparkbrook, 1 1/2" C.L. G.C.C.
- 66b " wide, G.C.C.
- 96 Carrier, extra long ends.

- No. 25/B860a/106 .. each 2/3

Other sizes can be made specially at various prices according to pattern.

BRACKET SPINDLES—continued



BOTTOM BRACKET SPINDLES

Plain Bearing

For Fairicycle Juvenile Machines.

3 1/2" long x 1/2" dia. for 1/2" Cotter.

No. 25/B878c/6 each -/9

4 1/2" long x 3/8" dia. for 1/2" Cotter.

No. 25/B878f/6 each -/9

"BAYLISS-WILEY"

Made from 40-Ton Tensile Steel.

1 1/2" C.L. A 1 1/8" x B 2 1/4" x C 1 1/2".

No. No. 15R.

25/B862m/103 Chromium Plated each 1/8

25/B862n/103 All Black 1/8

BRACKET SPINDLE FOR FAIRICYCLE JUVENILE MACHINES

(Cup and Cone pattern)

With fixed right side cone, adjusting left-hand cone, screwed 1/2" x 30 threads, complete with "D" Washer and Lock Nut with two flats, to suit 1/2" cranks. To suit 1 1/2" depth R.H. crank and 1/2" depth for L.H. Crank.

4 1/2" Length overall.

No. 25/B874c/104 each 2/-

FOR CUP AND CONE SPINDLES

Nuts (Hexagon), 1/2" x 20 L.H. thread.

No. 25/B870n/2 each -/3



BRACKET TAP

(B.S.A. Standard Size)

1 1/2" x 24 thread with left and right hand threads combined.

Complete with Tommy Bar.

No. 25/B905r/608 each 8/6

BRACKET TAPS



BRACKET TAP (B.S.A. Standard Size)

1 1/2" diameter x 24 thread.

No. 25/B905e/310 Right hand each 5/9

25/B905f/310 Left 5/9

1 1/2" (1.45) x 26 thread for Brampton Tandem, etc.

No. 25/B905s/804 Right hand each 12/6

25/B905t/804 Left 12/6



BRACKET TAPS

With 2 1/2" long Guide, 6" overall, 1 1/2" diameter x 24 thread, B.S.A. Standard Size. Force

No. 25/B905k/500 Right hand each 7/6

25/B905l/500 Left 7/6



BRACKET TAPS (B.S.A. Standard Size)

1 1/2" diameter x 24 thread. British Made.

No. 25/B905a/500 Right hand each 6/6

25/B905b/500 Left 6/6

Foreign.

No. 25/B905c/303 Right hand each 4/6

25/B905d/303 Left 4/6



"B.B.L." BOTTOM BRACKET CLEARING TAPS

B.S.A. Size. 1 1/2" diameter x 24 thread.

Taps, complete with guide.

No. each

25/B907a/1409 Right hand .. 19/8

25/B907b/1409 Left 19/8

25/B907e/709 Replacement R.H. tap 10/4

25/B907f/709 .. L.H. .. 10/4

25/B907g/106 Guide collars .. 2/-



"CHATER LEA" BOTTOM BRACKET CLEARING TAP

1 1/2" diameter x 26 thread.

For cleaning threads out after brazing

No. Complete with R. and L. taps .. 11/6

25/B908a/303 11/6

25/B908e/206 Replacement R. H. tap .. 11/6

25/B908f/206 .. L. H. .. 11/6

25/B908g/308 .. Guides with Pin .. 11/6



"MILLENNIUM" BOTTOM BRACKET CLEARING TAPS

Complete with guide and wrench.

B.S.A. Size. 1 1/2" diameter x 24 thread.

No. each

25/B906a/1403 Right hand .. 19/6

25/B906b/1403 Left 19/6

25/B906e/909 Replacement R.H. tap 13/-

25/B906f/909 .. L.H. .. 13/-

25/B906g/109 Guide collars .. 2/3

Special size taps can be made to special order.

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126 GEORGE STREET, EDINBURGH, 3

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WEBB "TEN SPOT" CENTRE PULL CALIPER CABLE BRAKES

Chromium Plated.
With solid lever and two bolt hole adjustment to suit various shape bends. With waterproof - covered outer cable. Centre bolt fitting to go through crown or top stay bridge and stay clips.

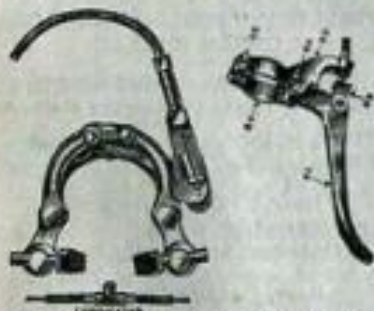
- Front, for Gent.'s or Ladies'.
No. 25/B1317b/500 For D .. each 7/-
Rear, for Gent.'s.
No. 25/B1317e/500 For Rd. .. each 7/-
Rear, for Ladies'.
No. 25/B1317m/500 For Rd. .. each 7/-


"BUFFALO" CENTRAL PULL CALIPER CABLE BRAKES

(Foreign.)

With uncovered enamelled outer wire.

- Front, for Gent.'s or Ladies' Machines.
No. 25/B1331a/202 each 3/-
Rear, for Gent.'s Machines.
No. 25/B1331d/202 each 3/-


"CONSTRICTOR CONLOY" LIGHTWEIGHT RACING CALIPER BRAKE

With Waterproof-covered Outer Wire.
(British Made.)

With horizontal bolt fitting through crown and top bridge tube.
Polished (Model No. 33).

- Gent.'s Front.
No. 25/B1339a/711 each 10/6
Gent.'s Rear.
No. 25/B1339d/801 each 10/9
NOTE:—Stirrups, Shoes, Lever and Clip are all Conloy.

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Glasgow, Liverpool.

BRAKES (CABLE MODELS)

"VINDEC DE LUXE" SIDE PULL CALIPER CABLE BRAKES

Chromium Plated. British Made.
With solid lever and two bolt hole adjustment to suit various shape bends.
With waterproof-covered outer cable.
Centre bolt fitting to go through crown or top stay bridge.

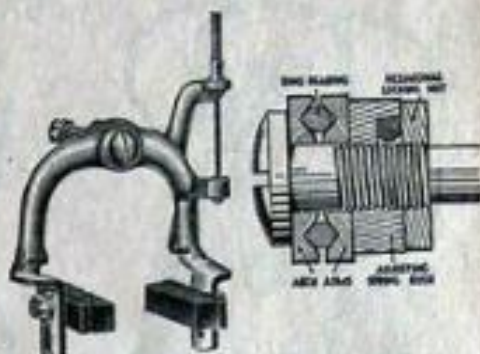
- As fitted to "Vindec" Model C Bicycles.
Front, for Gent.'s or Ladies'.
No. 25/B1323b/300 each 4/-
25/B1323b/3500 per doz. —
Rear, for Gent.'s.
No. 25/B1323e/301 each 4/2
25/B1323e/3000 per doz. —
Rear, for Ladies'.
No. 25/B1323m/302 each 4/3
25/B1323m/3700 per doz. —
With plate to fit over top stay bridge or strut with vertical bolt.
Rear, for Gent.'s.
No. 25/B1323r/302 each 4/3
Rear, for Ladies'.
No. 25/B1323s/303 each 4/4


"LION" CENTRAL PULL CALIPER CABLE BRAKES

With uncovered enamelled outer wire and metal lever. British made.

- Front, for Gent.'s or Ladies'.
No. 25/B1330a/201 Nickel .. each 3/-
25/B1330a/2406 per doz. —
25/B1330b/204 Chromium .. each 3/3
25/B1330b/2706 per doz. —
Rear, for Gent.'s.
No. 25/B1330d/201 Nickel .. each 3/-
25/B1330d/2406 per doz. —
25/B1330e/204 Chromium .. each 3/3
25/B1330e/2706 per doz. —
Rear, for Ladies'.
No. 25/B1330L/201 Nickel .. each 3/-
25/B1330L/2406 per doz. —
25/B1330m/204 Chromium .. each 3/3
25/B1330m/2706 per doz. —

Head Office and Warehouse, Wholesale only


"GRIP-IT" DE LUXE SIDE PULL CALIPER CABLE BRAKE

British made, with waterproof-covered cable and John Bull Brake Blocks.

Fitted with patent adjustable ring bearing, which ensures smooth working and eliminates all side play and loss of braking power.

Stirrup and centre bolt fitting to go through crown and top back stay bridge.

- Chromium Plated.
Front, for Gent.'s or Ladies'.
No. 25/B1326b/309 each 5/-
Rear, for Gent.'s.
No. 25/B1326e/309 each 5/-
Rear, for Ladies'.
No. 25/B1326m/309 each 5/-


"MONITOR" SUPER CAM CALIPER CABLE BRAKES

Black Enamelled with Chromium Plated Lever and Parts.

With solid lever and two bolt hole adjustment to suit various shape bends.

Waterproof-covered Cable.

- Front, Gent.'s or Ladies'.
No. 25/B1353b/407 For "D" .. each 7/-
25/B1353c/407 For 1" round .. 7/-
Rear, for Gent.'s. For round stays.
No. 25/B1353e/407 each 7/-
Rear, for Ladies'. For round stays.
No. 25/B1353m/407 each 7/-
Front, for Tandem.
No. 25/B1353s/506 For "D" forks each 8/-
Rear, for Tandem. Double Gent.'s.
For round stays.
No. 25/B1353w/506 each 8/-
Can be supplied with Sports Pattern Brake Lever at the same price. For illustration see page 37.

Branches:
Ald. Leam, Liverpool,
London, W. I.
Manchester, Newcastle,
Nottingham, Southampton,
Tottenham, Wakefield,
Wolverhampton.

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174 GEORGE STREET, EDINBURGH, 2

BRAKES (CABLE MODELS)—continued



MONITOR SIDE PULL CALIPER CABLE BRAKES

Black enamelled with chromium-plated lever and parts.
With solid lever and two bolt hole adjustment to suit various shape bends.
Waterproof-covered Cable.
Stirrup with horizontal bolt fitting to go through crown on top stay bridge.

"CLIMAX"

Front, for Gent.'s or Ladies' Machines.
No. 25/B1354b/302 .. each 5/-
Rear, for Gent.'s Machines.
No. 25/B1354e/303 .. each 5/-
Rear, for Ladies' Machines.
No. 25/B1354m/303 .. each 5/-

"SPEEDSTER"

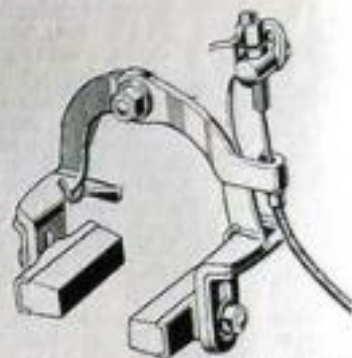
Special for Close-built Cycles.
Front, for Gent.'s or Ladies' Machines.
No. 25/B1355b/307 .. each 5/6
Rear, for Gent.'s Machines.
No. 25/B1355e/307 .. each 5/6



PHILLIPS' "GRAND VITESSE" CALIPER CABLE BRAKE

With Waterproof-covered Cable.
Chromium Plated.
With horizontal bolt fitting through crown.
Front, for Gent.'s or Ladies' Machines.
No. 25/B1361b/210 .. each 3/10
With vertical bolt for top back stay bridge.
Rear, for Gent.'s Machines.
No. 25/B1361e/211 .. each 3/11
With horizontal bolt fitting for top back stay bridge.
Rear, for Gent.'s Machines.
No. 25/B1361r/211 .. each 3/11

The Monitor "Climax" and "Speedster" Brakes are made up with patent stabilizers. The Front Brake being fitted with strong wire arm to brake shoe bolts, and Rear Brake Shoes are made with patent side arms to rest against back stays, to prevent pulling forward when pressure is applied.



PHILLIPS' "GRANDE VITESSE" REAR CALIPER CABLE BRAKES

With horizontal bolt for top back stay bridge, with Waterproof-covered Cable.
Downward pull, suitable for Ladies' machines.
Chromium Plated.
No. 25/B1361h/211 .. each 3/11



PHILLIPS' "PHILCO" CALIPER CABLE BRAKES

With uncovered enamelled outer wire.
With ebonite lever for Roadster Machine.
Front, for Gent.'s or Ladies' Machines.
No. 25/B1362a/203 1/2 Nickel .. each 4/2
25/B1362b/203 1/2 Chromium 4/8
Rear, for Gent.'s Machines.
No. 25/B1362d/204 1/2 Nickel 4/2
25/B1362e/208 1/2 Chromium 4/8
Rear, for Ladies' Machines.
No. 25/B1362l/204 1/2 Nickel 4/2
25/B1362m/208 1/2 Chromium 4/8

With racing pattern lever for Racing Machine.
To suit Westwood, 1" Flat Endrick or Wood.
Front, for Gent.'s or Ladies' Machines.
No. 25/B1363a/202 Nickel 4/2
25/B1363b/206 Chromium 4/8
Rear, for Gent.'s Machines.
No. 25/B1363d/203 Nickel 4/2
25/B1363e/207 Chromium 4/8
Rear, for Ladies' Machines.
No. 25/B1363l/203 Nickel 4/2



PHILLIPS' "AGRIPPA" CALIPER CABLE BRAKES

With two hole adjustment Levers to suit various Handle-bar bends. Waterproof-covered Cable.
With Horizontal Bolt fitting through Crown.
Front, for Gent.'s or Ladies' Machines.
No. 25/B1359a/301 1/2 Nickel each 4/2
25/B1359b/305 1/2 Chromium 4/8
With vertical bolt fitting through top stay bridge.
Rear, for Gent.'s Machines.
No. 25/B1359d/303 Nickel each 4/4
25/B1359f/305 1/2 All Black 4/8
Rear, for Ladies' Machines.
No. 25/B1359L/303 Nickel each 4/2
25/B1359n/305 1/2 All Black 4/8

Clp Fitting.

Front, for Gent.'s or Ladies' Machines.
No. 25/B1358a/307 1/2 Nickel .. each 4/2
25/B1358b/305 1/2 Chromium .. 4/8
Rear, for Gent.'s Machines.
No. 25/B1358d/303 Nickel .. each 4/4
25/B1358e/307 Chromium .. 4/10
25/B1358f/305 1/2 All Black .. 4/8
Rear, for Ladies' Machines.
No. 25/B1358L/303 Nickel .. each 4/4
25/B1358m/307 Chromium .. 4/10
25/B1358n/305 1/2 All Black .. 4/8



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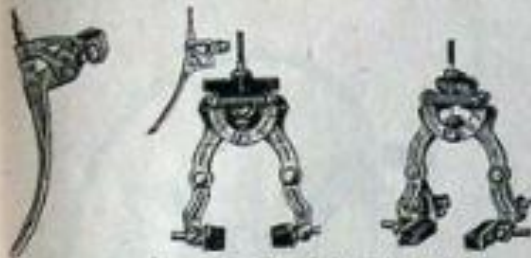
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100 PRINCE STREET, EDINBURGH 2

Branches:
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BRAKES (PHILLIPS' and RESILION)—continued



PHILLIPS' "SELLWELL" CALIPER CABLE BRAKES

With Waterproof-covered Outer Wire.
With ebonite lever for Roadster Machines.
Front, for Gent.'s or Ladies' Machines.
No. 25/B1364a/208 Nickel .. each 3/8
25/B1364b/300 Chromium .. 4/2
25/B1364c/211 All Black .. 4/-
Rear, for Gent.'s Machines.
No. 25/B1364d/210 Nickel .. each 3/10
25/B1364e/302 Chromium .. 4/4
25/B1364f/300 All Black .. 4/2
Rear, for Ladies' Machines.
No. 25/B1364L/210 Nickel .. each 3/10
25/B1364m/302 Chromium .. 4/4
With racing pattern lever for Racing Machines.
To suit Westwood, 1" Flat Endrick or Wood Rims.
Front, for Gent.'s or Ladies' Machines.
No. 25/B1365a/208 Nickel .. each 3/8
25/B1365b/300 Chromium .. 4/2
Rear, for Gent.'s Machines.
No. 25/B1365d/210 Nickel .. each 3/10
25/B1365e/302 Chromium .. 4/4



RESILION "CANTILETTE" CABLE BRAKES

With Waterproof-covered Outer Wire with Two-screw Clip Fittings.
FRONT
For 1 1/2" Ordinary "D" Front Forks.
All Black with Chromium Plated Lever.
No. 25/B1387b/600 .. each 8/-
25/B1387c/508 All Black .. 7/6
For "A. & P." or Reynolds Curved Taper Front Forks
No. 25/B1388c/508 All Black each 7/6
REAR. For 1" or 1 1/4" Round Stays.
All Black with Chromium Plated Lever.
No. 25/B1386b/600 Gent.'s each 8/-
25/B1386f/508 Gent.'s All Black .. 7/6
25/B1386g/508 Lady's All Black .. 7/6



RESILION "ANCHOR" CALIPER CABLE BRAKES

Black Enamel with Chromium Plated Lever and Parts.
Waterproof-covered Outer Wire.
Well made and finished. Weight approx. 12 oz.
Front. For Gent.'s or Ladies'.
For 1 1/2" "D" Forks.
No. 25/B1390b/402 .. each 5/6
Front. For 1" Round Forks.
No. 25/B1390c/402 .. each 5/6
Rear. For Gent.'s.
No. 25/B1390e/402 For Round each 5/6
Rear. For Ladies'.
No. 25/B1390m/402 For Round each 5/6

RESILION "CANTILEVER" CABLE BRAKES

With Waterproof-covered Outer Wire.

FRONT

With Two-screw Clip Fitting. To fit Round Forks.

No.	To fit 1 1/2" Round Forks.	each
25/B1375x/1001	Chromium Plated	13/6
25/B1375z/807	All Black	11/6
No.	To fit 1" Round Forks.	each
25/B1376b/1001	Chromium Plated	13/6
No.	To fit 1 1/2" "D" Forks.	each
25/B1377a/807	Nickel Plated	11/6
25/B1377b/1001	Chromium Plated	13/6
25/B1377c/807	All Black	11/6

To fit "A & P." Curved Taper

No.	Forks "D" to Round.	each
25/B1378b/1001	Chromium Plated	13/6
25/B1378c/807	All Black	11/6

To fit Reynold's H.M. Super Resilient Curved Taper Forks "D" to Round. each
25/B1378h/1001 Chromium Plated 13/6



REAR

With Two-screw Clip Fitting. To fit Round Back Stays.

Nickel Plated.			
No. 25/B1376d/710	Gent.'s	each	10/6
25/B1376e/710	"	"	10/6
Chromium Plated.			
No. 25/B1376e/804	Gent.'s	each	12/6
25/B1376p/904	"	"	12/6
All Black.			
No. 25/B1376f/710	Gent.'s	each	10/6
25/B1376r/710	"	"	10/6
Nickel Plated.			
No. 25/B1376g/710	Ladies'	each	10/6
25/B1376s/710	"	"	10/6

To fit 1" or 1 1/4" "D" Back Stays.

Nickel Plated.			
No. 25/B1377d/710	Gent.'s	each	10/6
Chromium Plated.			
No. 25/B1377e/904	Gent.'s	each	12/6
All Black.			
No. 25/B1377i/710	Gent.'s	each	10/6

Resilion Brakes can be supplied with Coupled Brake Levers at an extra charge.

With Two-screw Clip Fitting, fitted with heavy clutch main cable. Specially suitable for Tandems.

Front. To fit 1 1/2" "D" Forks.				Rear. To fit 1 1/2" Round Back Stays.			
No. 25/B1379a/904	Nickel Plated	..	each 12/6	No. 25/B1379d/904	Two Gent.'s	Nickel Plated	each 12/6
25/B1379b/1010	Chromium Plated	..	14/6	25/B1379e/1010	"	Chromium Plated	14/6
25/B1379c/904	All Black	..	12/6	25/B1379f/904	"	All Black	12/6
Front. To fit 1 1/4" Oval Forks.				Rear. For Gent.'s and Lady-back Tandem.			
No. 25/B1379m/904	Nickel Plated	..	each 12/6	No. 25/B1379g/904	Nickel Plated	..	each 12/6
25/B1379n/1010	Chromium Plated	..	14/6				
25/B1379p/904	All Black	..	12/6				

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Bristol, Cardiff, Colindale
Croydon, Dublin, Dundee
Edinburgh, Edinburgh
Glasgow, Leicester

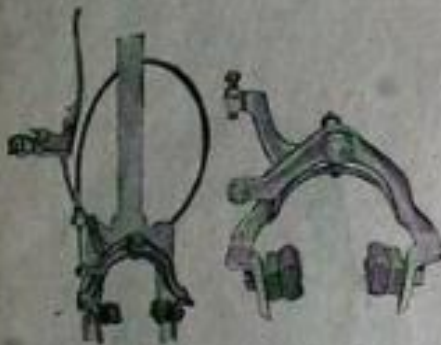
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126 GEORGE STREET, EDINBURGH. 1

Branches:
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Stockport, Tyneside
Wolverhampton

BRAKES—continued



"TABUCCHI" AMBRA SUPERGA SPECIAL LIGHTWEIGHT SIDE PULL CALIPER BRAKES

With aluminium finish waterproof-covered cable to bolt through crown and top stay bridge, with special leaf stirrup take-off spring. Italian manufacture.

Dural.

No. 25/B1440a/803 Front .. each 10/6
25/B1440d/809 Gent.'s Rear .. 11/-

Steel Chromium Plated.

No. 25/B1440t/511 Front .. each 7/6
25/B1440p/511 Gent.'s Rear .. 7/6



SPORTS "V.W." CALIPER BRAKES.

(Foreign.)

With horizontal bolt fitting through crown or top back stay bridge. With aluminium finish waterproof-covered cable.

Chromium Plated. Weight 14 oz.

No. 25/B1453a/402 Front .. each 5/6
25/B1453b/402 Rear 5/6



"WISSNER" LIGHT ALLOY METAL SPECIAL LIGHTWEIGHT SIDE PULL CALIPER BRAKES.

(Foreign.)

With aluminium finish waterproof-covered cable to bolt through crown and top stay bridge, with special leaf stirrup take-off spring.

No. 25/B1441a/600 Front .. each 8/6
25/B1441d/600 Gent.'s Rear .. 8/6

For
**BRAKE REPLACEMENT
CABLES**
see pages 32-34



"GLORIA" TOUR DE FRANCE CALIPER BRAKES. (Foreign.)

With horizontal bolt fitting through crown or top back stay bridge, strong double coil throw-off spring, and aluminium finish waterproof-covered cable.

As used by the continental racing men.

Racing, for narrow rims.

Duralumin.

No. 25/B1445a/1006 Front each 14/-
25/B1445b/1006 Rear 14/-

Steel Chromium Plated.

No. 25/B1445d/503 Front each 7/-
25/B1445e/503 Rear 7/-

Semi-racing, for wider rims and with deeper clearance stirrup.

Duralumin.

No. 25/B1446a/1006 Front each 14/-
25/B1446b/1006 Rear 14/-

Steel Chromium Plated.

No. 25/B1446d/503 Front each 7/-
25/B1446e/503 Rear 7/-

"BOWDEN" SIMPLEX CONTINENTAL SIDE PULL CALIPER BRAKES. (Foreign.)

With horizontal bolt fitting through crown or top back stay bridge, strong double coil throw-off spring, and aluminium finish waterproof-covered cable.

Duralumin. (With lever end cable adjustment).

No. 25/B1450a/905 Front each 12/6
25/B1450b/905 Rear 12/6

Steel Chromium Plated. (With stirrup end cable adjustment).

No. 25/B1451a/503 Front each 7/-
25/B1451b/503 Rear 7/-

Branches:
Aberdeen, Aston, Belfast,
Birmingham, Southampton

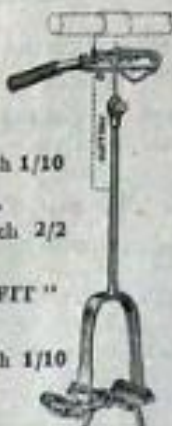
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Branches:
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15, SOUTH STREET, LONDON, E.C. 2

BRAKES—continued
PULL-UP LEVER MODEL (FRONT)
FRONT BRAKES, with pull-up lever and 1/2" clip.

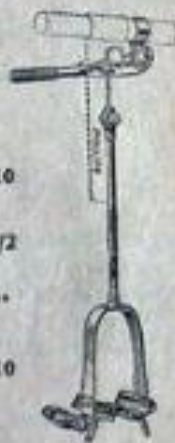
"VINDEC"
 Nickel Plated.
 No. 25/B2004k/104 1/2 each 1/10
 Chromium Plated.
 No. 25/B2004L/107 each 2/2



"VINDEC"
 Nickel Plated.
 No. 25/B2004a/104 1/2 each 1/10



"VINDEC"
 Nickel Plated.
 No. 25/B2004t/104 1/2 each 1/10
 Chromium Plated.
 No. 25/B2004w/107 each 2/2



PHILLIPS' "QUICKFIT"
 Nickel Plated.
 No. 25/B2006k/104 1/2 each 1/10

PHILLIPS' "QUICKFIT"
 Nickel Plated.
 No. 25/B2006a/104 1/2 each 1/10

PHILLIPS' "QUICKFIT"
 Nickel Plated.
 No. 25/B2006t/104 1/2 each 1/10

"VINDEC." For Carrier Cycles, with long pull-up lever, extra long stirrup and large size Carrier Brake Blocks. All Black.
 No. 25/B2005a/206 each 3/6



PHILLIPS' TOGGLE FRONT BRAKES

With short cranked lever.
 To suit ordinary 1" forward lug.

No. 25/B2010d/202 each 3/-



PHILLIPS' "CREDEX"

Front and Rear Brakes fitted with pull-up Levers with clips on Model H Sports Dropped Handlebars, 10" wide without grips with Rear Levers on right-hand side.

With Expander Bolt.

Chromium Plated.
 No. 25/B2075d/710 1/2 .. per set 10/9

Without Expander Bolt.

Nickel Plated.
 No. 25/B2075a/611 .. per set 9/3

Chromium Plated.
 No. 25/B2075c/708 .. per set 10/5

PHILLIPS' "CREDEX" BAR FITTING PULL-UP LEVER BRAKES

Less Handlebar.

Nickel Plated.
 No. 25/B2072a/200 Rear .. each 2/8

Chromium Plated.
 No. 25/B2072c/202 1/2 Rear .. each 3/-



PHILLIPS' JUNIOR FRONT BRAKE

With long pull-up lever, complete with Handlebar. Plated.

Ordinary Raised.

14 1/2" wide, 1/2" dia. and 1/2" stem with Expander Bolt.

No. 25/B2030a/400 .. per set 5/4

PHILLIPS' "PHILCO" FRONT PULL-UP GALIPER ACTION BRAKES

Central Pull.

With Short Cranked Lever and 1/2" Clip.

Suitable for "Eudrick" Rims.



Nickel Plated.
 No. 25/B2008k/203 .. each 3/-

Chromium Plated.
 No. 25/B2008L/206 .. each 3/4



"PIERO" JUNIOR FRONT BRAKE

With long raised pull-up lever to suit 14 1/2" width and clip for 1/2" handlebar stem fitting.

No. 25/B2021a/105 each 2/2
 25/B2021a/1006 doz. —

Specially suitable for Juvenile Cycles.

Exeter
 Aberdeen, Arrol, Belfast
 Birmingham, Bournemouth
 Bristol, Cardiff, Cardiff
 Crystal Palace, Dublin, Glasgow
 Southampton, Edinburgh
 Glasgow, London

Head Office and Warehouse, 114, Leadenhall Street

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Branches
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 Stockton-on-Tees
 Wolverhampton

BRAKES—continued

(PULL-UP LEVER MODEL)



FRONT RIM BRAKE

Nickel Plated.
For Cushion-tyred Toy Cycles.

To bolt on Raised Handlebar, with Round Peg Guide.

For "Faircycles."
Brake complete.

No. 25/B2041a/300 each 4/-
Lever, Bolt, Spring and Rod only.

No. 25/B2041d/104 each 2/-
Bottom Part with Fork Clips only.

No. 25/B2041e/104 each 2/-



FRONT—(JUVENILE)

FRONT SPOON BRAKE

Nickel Plated.
For Cushion-tyred Toy Cycles.

To bolt on Flat Handlebar.

For "Faircycles."
Brake complete.

No. 25/B2045a/110 each 2/6
Lever, Bolt and Rod only.

No. 25/B2045d/101 each 1/6

Bottom Part with Spring and Collar.

No. 25/B2045e/101 each 1/6



HANDLEBARS

14" wide

Nickel Plated with 1/2" Stem.
With 1/2" Celluloid Handles, Brake Lever and 1/2" dia. 1/2" Rod. (Less Bottom Parts.) For "Faircycles."

Flat, with Lap Joint.

No. 25/B2050a/307 per set 5/3

REAR-ROADSTER

REAR BRAKES, with pull-up lever, 1/2" stem-fitting clip, and clip-fitting bell crank.

"VINDEC"

No. 25/B2067a/200 Long, L.H. fitting. Nickel Plated each 2/8

25/B2067d/200 R.H. 2/8

25/B2067k/200 Short Straight, L.H. fitting. Nickel Plated 2/8

25/B2067p/200 R.H. 2/8

25/B2067l/202 L.H. fitting. Chromium 3/-

For Carrier Cycles.

Extra long stirrup and large-size Carrier Brake Blocks.

No. 25/B2068a/302 Long, L.H. fitting. All Black each 4/3

PHILLIPS' "QUICKFIT" Nickel Plated.

No. 25/B2070a/200 Long, L.H. fitting each 2/8

25/B2070k/200 Short straight, L.H. fitting each 2/8



A Single Shoe engages with the inside rubber surface of the rim of each wheel.

BOX CARRIER BRAKES

CHATER LEA FRONT RIM BRAKES

For Box Carrier Tricycles.

No. 25/B2078a/1707 Without Locking Clip each 23/6

25/B2078d/1902 With Locking Clip 25/7

CHATER LEA BACK RIM BRAKE

For Box Carrier Tricycles. Complete with special seat bolt and nut.

No. 25/B2080a/801 Natural Rough Finish each 10/9

25/B2080d/1004 Black Enamelled Finish Stoved 13/9

For Replacement parts to fit Chater Lea Front and Rear Box Carrier Brakes, see pages 45 and 47.

For internal expanding Front and Rear Hub Brakes, see page 159.

ROLLER-LEVER MODEL. FRONT

"VINDEC" FRONT BAND CLIP FITTING ROLLER LEVER BRAKE,
With Round Peg Guides. To suit 1 1/2" x 1/2" dia. Ordinary Raised Handlebar.

Right-hand fitting.

No. 25/B2100a/105 1/2 Nickel Plated each 2/-

25/B2100b/108 Chromium Plated 2/4



Left-hand fitting.

No. 25/B2100L/105 1/2 Nickel Plated each 2/-

25/B2100m/108 Chromium Plated 2/4



PHILLIPS' "PHILCO" JUNIOR FRONT BRAKE

Stud Logs on Ordinary Raised Handlebar, 1/2" dia. x 14 1/2" wide x 1/2" Stem, with Expander Bolt. For 5" Head, 1" "D" Fork Clips, Round Peg Guide.

No. 25/B2180b/400 Nickel Plated per set 5/4

FRONT BOTTOM PARTS ONLY

No. 25/B2290a/101 "Vindec," Plated per set 1/5

25/B2290c/103 All Black 1/9

25/B2295a/101 "Celtonia," Plated 1/5

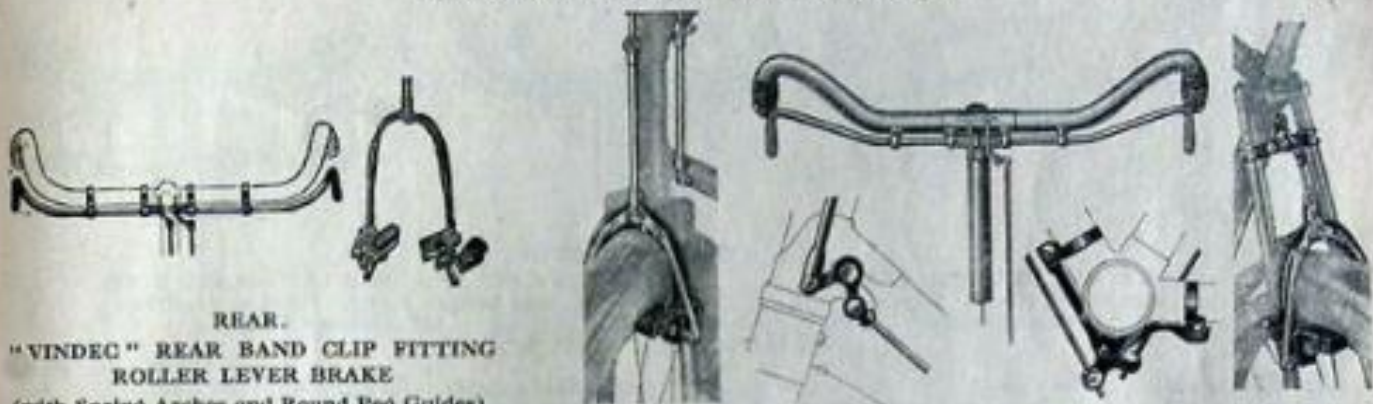
PHILLIPS' FRONT BOTTOM PART ONLY

Comprising long Brake Tube with eye-bolt, extra heavy long stirrup and large size Carrier Brake Blocks with fork clips.

Specially suitable for Low Gravity Carrier Cycles.

No. 25/B2297c/204 Black Enamelled per set 3/3

BRAKES—continued
ROLLER-LEVER MODEL. WITH STUD LUGS.



REAR.

**"VINDEC" REAR BAND CLIP FITTING
ROLLER LEVER BRAKE**
(with Spring Arches and Round Peg Guides).

To suit 18" x 1" dia. Ordinary Raised Handlebar.

Left-hand fitting.

No. 25/B2330a/203 Nickel Plated each 3/-
25/B2330b/205 Chromium Plated .. 3/4

Right-hand fitting.

No. 25/B2330L/203 Nickel Plated each 3/-
25/B2330m/205 Chromium Plated .. 3/4

To suit 14 1/2" wide Juvenile Ordinary Raised
Handlebar, 5" head, 1" frame tubes, "D" stays.

Left-hand fitting.

No. 25/B2340a/203 Nickel Plated each 3/-

"MONITOR" POWER PLUS HANDLEBARS
Complete with Front and Rear Roller Lever Brakes.
Chromium Plated.

Specially suitable for "Endrick" rims, central pull action brake stirrups the same
in operation as The Monitor Super Cam Brakes and have roller lever control.
Bolt fitting bell cranks and clip fitting on bracket tubes.

With rear lever on left-hand side.

18" Ordinary Raised

No. 25/B2897c/1000 Without expander bolt per set 15/-
25/B2897d/1000 With expander bolt fitted 15/9

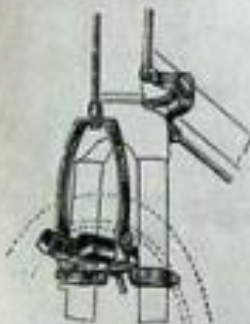
18" High North Road Raised

No. 25/B2898c/1000 Without expander bolt per set 15/-
25/B2898d/1000 With expander bolt fitted 15/9

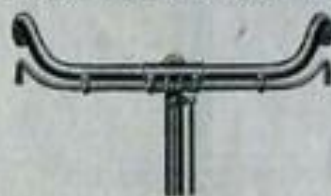
18" North Road Dropped

No. 25/B2899c/1000 Without expander Bolt per set 15/-
25/B2899d/1000 With expander bolt fitted 15/9

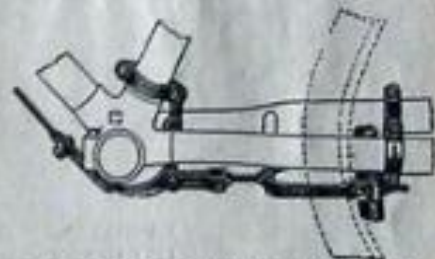
FRONT AND REAR (combined)



**FRONT AND REAR BRAKES, fitted with Roller Levers on
Handlebar.**



WITH STUD LUGS



**FRONT AND REAR ROLLER LEVERS AND RODS
(less bottom parts), fitted on Handlebar.**

18" Ordinary Raised

(With Rear Lever on Left-hand side).

No. 25/B2395a/604 Nickel Plated per set 8/6
25/B2395b/607 with expander bolt .. 8/10
25/B2395c/609 Chromium Plated 9/1
25/B2395e/608 All Black 9/-
25/B2395f/611 with expander bolt .. 9/4

(With Rear Lever on Right-hand side).

No. 25/B2396a/607 Nickel Plated per set 8/10
25/B2396b/610 with expander bolt .. 9/1
25/B2396c/700 Chromium Plated 9/5
25/B2396d/703 with expander bolt .. 9/9
25/B2396e/811 All Black 9/4

"VINDEC"

18" Ordinary Raised

(With Rear Lever on Left-hand side).

No. 25/B2395m/408 Nickel Plated per set 6/4
25/B2395n/411 with expander bolt .. 6/8
25/B2395p/502 Chromium Plated 6/11
25/B2395s/500 All Black 6/10
25/B2395t/503 with expander bolt .. 7/2

(With Rear Lever on Right-hand side).

No. 25/B2396m/411 Nickel Plated per set 6/8
25/B2396n/502 with expander bolt .. 6/11
25/B2396p/504 Chromium Plated 7/3
25/B2396r/507 with expander bolt .. 7/6
25/B2396s/504 All Black 6/9

No. 25/B2395a/100 and 25/B2395m/100 Extra for Handlebars supplied from stock with 1" or 1 1/2" stems .. per set 1/6
-/8 Extra for all Handlebars fitted with expander bolts (where not listed) 9

For Front and Rear Bottom Parts only, see page 28.

For Levers and Rods or Bottom Parts separate, see pages 37, 39 & 43.

Branches:
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Bristol, Cardiff, Cardiff,
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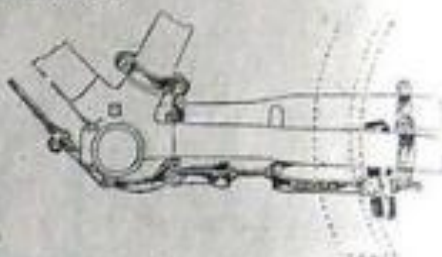
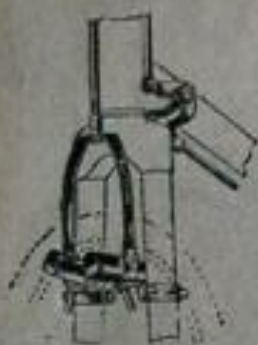
Head Office and Warehouse, Wholesale only:

GREAT EASTERN STREET, LONDON, E.C.2.
114 GEORGE STREET, EDINBURGH, 1

Branches:
Hull, Leeds, Liverpool,
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Wolverhampton

BRAKES—continued

ROLLER LEVER MODEL. FRONT AND REAR (Combined).



FRONT AND REAR BRAKES
Fitted with Roller Levers on Handlebar.
18" Ordinary Raised

FRONT AND REAR LEVERS AND RODS
(less bottom parts). Fitted on Handlebar.
18" Ordinary Raised

WITH STUD LUGS

PHILLIPS' "CELTONIA"

No.	Material	per set
No. 25/B2412a/506½	Nickel Plated	8/6
25/B2412b/507	Nickel Plated, with expander bolt	8/10
25/B2412c/508½	Chromium Plated	9/1
25/B2412d/700	.. .. . with expander bolt	9/5
25/B2412e/508½	All Black, without expander bolt	9/-
25/B2412f/611	.. .. . with	9/4
With Rear Lever on Right-hand Side.		
No. 25/B2413c/700½	Chromium Plated	9/5
25/B2413d/707	.. .. . with expander bolt	9/9

No.	Material	per set
No. 25/B2412m/509½	Nickel Plated	6/7
25/B2412n/500	Nickel Plated, with expander bolt	6/11
25/B2412p/503½	Chromium Plated	7/3
25/B2412r/505	.. .. . with expander bolt	7/7
25/B2412s/502½	All Black, without expander bolt	7/1
25/B2412t/505	.. .. . with	7/5
With Rear Lever on Right-hand Side.		
No. 25/B2413p/508½	Chromium Plated	8/-
25/B2413r/509½	.. .. . with expander bolt	8/3

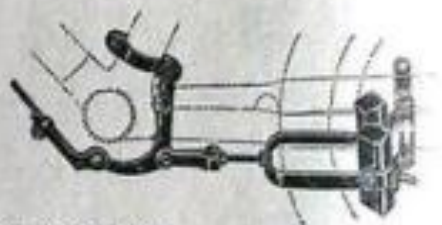
PHILLIPS' "GRABBE," MODEL A, CENTRAL PULL

With Bolt fitting Yoke Bell Crank and Rear Lever on Right-hand Side.

No. 25/B2440a/704	Nickel Plated	per set 9/10
25/B2440c/711½	Chromium Plated	10/8
25/B2440e/505	All Black	11/1

No. 25/B2440m/501	Nickel Plated	per set 8/7
25/B2440p/511	Chromium Plated	9/9
25/B2440s/700	All Black	9/10

For Front and Rear Bottom Parts only,
see page 25.



"PHILLIPS" CARRIER CYCLE BRAKE SETS, WITH HEAVY GAUGE
ORDINARY HIGH RAISED BENDS 18" WIDE AND STEMS 8" LONG
WITH STUD LUGS. Extra Long Stirrups and large-size Carrier Brake Blocks.

FRONT AND REAR BRAKES
Fitted with Roller Levers on Handlebar.
Clip (A) Fitting Bell Crank.

No. 25/B2455a/502	All Black	per set 11/-
With Rear Lever on Right-hand Side.		
No. 25/B2455g/505	Black	per set 11/4
Bolt (D) Fitting Bell Crank.		
No. 25/B2456a/710	Nickel Plated	per set 10/6
25/B2456e/502	All Black	11/-
With Rear Lever on Right-hand Side.		
No. 25/B2456g/505	Black	per set 11/4

FRONT AND REAR ROLLER LEVERS AND RODS
(less bottom parts), fitted on Handlebar.

No. 25/B2455s/504	All Black	per set 8/-
With Rear Lever on Right-hand Side.		
No. 25/B2455w/507	Black	per set 8/1

FRONT AND REAR BOTTOM PARTS ONLY

Clip (A) Fitting Bell Crank		
No. 25/B2457a/410	Nickel Plated	per set 6/9
25/B2457e/410	All Black	6/3
Bolt (D) Fitting Bell Crank		
No. 25/B2458a/410	Nickel Plated	per set 6/9
25/B2458e/410	All Black	6/3
-/9 Extra for all Handlebars fitted with Expander Bolts (where not listed) .. per set -/9		

"PHILLIPS" EXTRA HEAVY CARRIER CYCLE BRAKE SETS, WITH HEAVY GAUGE ORDINARY HIGH RAISED
BENDS 18" WIDE AND STEMS 8" LONG WITH STUD LUGS. Extra Heavy Long Stirrups and large-size Carrier Brake Blocks.
FRONT AND REAR BRAKES, fitted with Roller Levers on Handlebar and 19" long brake tubes. Bolt Fitting Bell Crank.

Specially Suitable for SMALL FRONT WHEEL LOW-GRAVITY CARRIER CYCLES.
No. 25/B2462e/1009 All Black per set 14/6

Branches:
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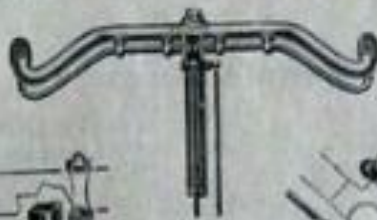
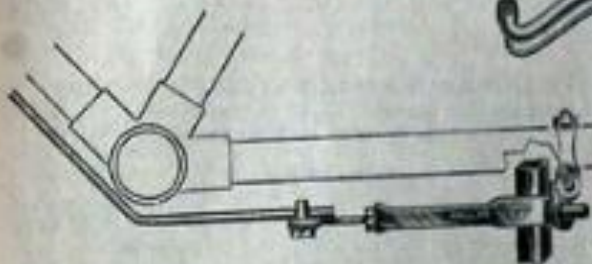
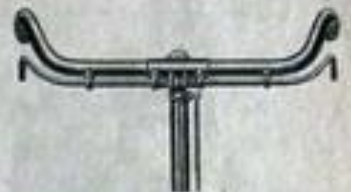
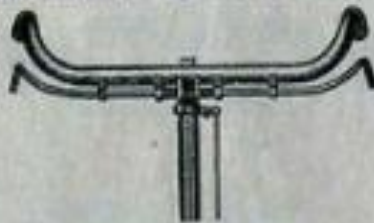
Head Office and Warehouse, Whitehall, E.C.4.

GREAT EASTERN STREET, LONDON, E.C.2

125 GEORGE STREET, EDINBURGH, 2

Branches:
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Wolverhampton

BRAKES—continued
ROLLER LEVER BRAKES FOR JUNIOR BICYCLES.



PHILLIPS' "PHILCO" JUNIOR FRONT AND REAR BRAKES

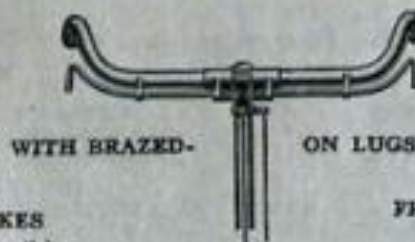
Fitted with Roller Levers on 1" dia. Handlebar, 14 1/2" wide. 1" stem fitted with expander bolt. For 5" heads with 1/2" bell crank lever clip, 1" "D" fork clips, with rear down rod under bracket to stirrup. Round peg guides. Chromium Plated.

Ordinary Raised.		
No. 25/B2595d/511 1/2	.. .. .	per set 8/-
North Road Raised.		
No. 25/B2596d/602	.. .. .	per set 8/4
North Road Dropped.		
No. 25/B2597d/602	.. .. .	per set 8/4

"VINDEC" JUVENILE FRONT AND REAR BRAKES

Fitted with Roller Levers on 1" dia. Handlebar, without expander bolt. For 6" heads, with rear down rod and hanger bracket to stirrup.

14 1/2" Ordinary Raised.		
(With Rear Lever on Left-hand side).		
No. 25/B2588a/604	Nickel Plated	per set 8/6
25/B2588a/603	lots of 1 doz.	—
25/B2588c/609	Chromium Plated	9/1



FRONT AND REAR BRAKES
 Fitted with Roller Levers on Handlebar.

FRONT AND REAR ROLLER LEVERS AND RODS
 Fitted on Handlebar (less bottom parts).

18" Ordinary Raised.

No. 25/B2650a/901	Nickel Plated	per set 12/2
25/B2650b/903 1/2	Nickel Plated, with expander bolt	12/6
25/B2650e/905	All Black	12/8

"BRONKO"

18" Ordinary Raised.

No. 25/B2650m/802	Nickel Plated	per set 10/11
25/B2650n/804 1/2	Nickel Plated, with expander bolt	11/3
25/B2650s/807	All Black	11/5

"VINDEC" CARRIER CYCLE BRAKE SETS, WITH EXTRA HEAVY GAUGE BENDS AND STEMS, BRAZED-ON LUGS, SPOON-END LEVERS, AND 1/2" BRAKE RODS.

Extra Heavy Stirrups and large size Carrier Brake Blocks. Bolt Fitting Bell Crank 1" x 2".

18" Ordinary High Raised, with 10" Stem, with Front and Rear Brakes.

Rear on Left.		Rear on Right.	
No. 25/B2675a/1300	Nickel Plated per set 17/6	No. 25/B2676a/1300	Nickel Plated per set 17/6
-/6 Extra for all Handlebars fitted with Expander Bolts (when not listed)	 per set -/9	

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BRAKE BLOCKS
ASBESTOS



ASBESTOS BRAND GREY FIBRE BRAKE BLOCKS

Grooved Section
No. 25/B3004a/103 doz. pairs 2/-
25/B3004a/1400 gross .. —

Round Top
No. 25/B3004b/103 doz. pairs 2/-
25/B3004b/1400 gross .. —

Wedge Type (wide section)
No. 25/B3004c/103 doz. pairs 2/-
25/B3004c/1400 gross .. —

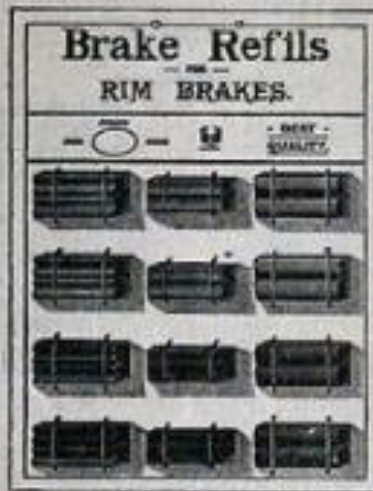
For Bowden and Vindex
Carrier Cycle Brakes.
No. 25/B3004e/2 .. per pair —/1
25/B3004e/110 doz. pairs —



Flat Top (wide section)
No. 25/B3004f/103 per doz. pairs 2/-
25/B3004f/1400 per gross .. —



Wedge Type (narrow section)
No. 25/B3004g/103 per doz. pairs 2/-
25/B3004g/1400 per gross .. —



For Raleigh, Yoko and Hinge, or Singer
Pattern Brakes.

No. 25/B3004r/103 per doz. pairs 2/-
25/B3004r/1400 per gross .. —

On showcards containing 1 doz. pairs, assorted
patterns.

No. 25/B3004x/106 per card 2/-
25/B3004x/1706 per doz. cards —

" FERODO "



" FERODO " (No. 33)
Round Top
Wide Section.
No. 25/B3006b/300 doz. pairs 5/-



" FERODO " (No. 51A)
Flat Top
Wide Section.
No. 25/B3006f/300 doz. pairs 5/-



" FERODO " (No. 53)
Wedge Type (narrow section).
No. 25/B3006g/300 doz. pairs 5/-



" FERODO " (No. 52)
Wedge Type (wide section).
No. 25/B3006h/300 doz. pairs 5/-



" FERODO " (No. 16A)
Grooved Top, 1 1/2" long.
For Rear Calliper Brakes.
No. 25/B3006k/300 doz. pairs 5/-



" FERODO " (No. 56)
For B.S.A.
No. 25/B3006L/300 doz. pairs 5/-



" FERODO " (No. 57B)
For Raleigh Carrier.
Flat Top, 2 1/2" long.
No. 25/B3006m/403 doz. pairs 7/-



" FERODO " (No. 63)
For Allday's and Warwick
Carrier Tricycles, Flat Top.
No. 25/B3006p/300 doz. pairs 5/-

NOTE:—" Ferodo " Brake Blocks are made from a new waterproof material and packed in boxes of 6 pairs, each pair being banded and marked with numbers for attaching to strong show display card with identification chart on back. Cards supplied free with orders for one dozen pairs. See next page for illustration.

Branches
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Head Office and Workrooms, Wholesale only

GREAT EASTERN STREET, LONDON, E.C. 2

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BRAKE BLOCKS ("FIBRAX")—continued

"FIBRAX" BRAKE BLOCK SHOW DISPLAY AND STOCK METAL CABINET

Attractively enamelled in three colours. With Glass Top and Front, contents easily seen and sold, pull-out drawers with ten compartments each to hold three to six pairs of blocks.

CABINET No. 1

Complete with 99 Pairs Brake Blocks. Comprising Pattern Numbers: 3, 21, 51, 70, 70/2, 71, 105, 130, 237, 250, 251, 253, 258 and 260, also three pairs of No. 3 Brake Shoes and 8 Pairs Hub Brake Liners and Rivets, Assorted.

No. 25/B3011p/3800 .. per Cabinet, Complete 61/4

CABINET No. 2

Complete with 102 Pairs Brake Blocks. Comprising Pattern Numbers: 3, 21, 51, 67, 70, 71, 105, 144, 145, 250, 258 and 260.

No. 25/B3011r/3400 .. per Cabinet, Complete 54/10

CABINET No. 3

Complete with 21 Pairs Brake Blocks. Comprising Pattern Numbers: 3, 21, 70, 250, 260, 260/2 and 258, also three pairs of No. 3 Brake Shoes and 8 Pairs Hub Brake Liners and Rivets, Assorted.

No. 25/B3011s/1900 .. per Cabinet, Complete 25/2



"FIBRAX" BRAKE BLOCKS

On Showcards (No. 1).

1 doz. pairs assorted, 12 popular patterns.

No. 25/B3011a/304 .. per card 5/-

On Showcards (No. 2).

1 doz. pairs assorted patterns (Nos. 3, 21, 145).

No. 25/B3011b/304 .. per card 5/-



"TRENCH" CYCLE BRAKE BLOCKS

Manufactured from a mixture of Canvas, Rubber and Fibre Centres, Red Rubber Covered.

Wedge Type (Narrow Section).

No. 25/B3014b/200 doz. pairs 4/-

25/B3014b/2300 gross pairs —

Wedge Type (Wide Section).

25/B3014h/200 doz. pairs 4/-

25/B3014h/2300 gross pairs —

Flat Top (Wide Section).

No. 25/B3014c/200 doz. pairs 4/-

25/B3014c/2300 gross pairs —

For Hercules.

Narrow Section, Deep.

25/B3014L/200 doz. pairs 4/-

25/B3014L/2300 gross pairs —

For Caliper Brakes

No. 25/B3014d/200 doz. pairs 4/-

25/B3014d/2300 gross pairs —

Round Type (Wide Section).

No. 25/B3014a/200 doz. pairs 4/-

25/B3014a/2300 gross pairs —

"B.H.L." RUBBER



RUBBER, ROUND TOP

Wide section.

Medium Quality. Red.

No. 25/B3020a/10 doz. pairs 2/-

25/B3020a/300 gross pairs —

Extra Fine Quality. Grey.

No. 25/B3020b/203 doz. pairs 3/6



RUBBER, ROUND TOP

Popular Quality.

Grey.

No. 25/B3020c/8 doz. pairs 1/-

25/B3020c/700 gross pairs —

Red

No. 25/B3020d/8 doz. pairs 1/-

25/B3020d/700 gross pairs —



GREY RUBBER, WEDGE TYPE

Narrow section.

Popular Quality.

No. 25/B3020g/8 doz. pairs 1/-

25/B3020g/700 gross pairs —



GREY RUBBER, WEDGE TYPE

Medium Quality

Wide section.

No. 25/B3020h/10 doz. pairs 1/6

25/B3020h/300 gross pairs —

Popular Quality.

Red

No. 25/B3021h/8 doz. pairs 1/-

25/B3021h/700 gross pairs —

Grey.

No. 25/B3021k/8 doz. pairs 1/-

25/B3021k/700 gross pairs —

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Head Office and Warehouse, Wholesale only

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Branches:
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BRAKE CABLES

COMBINED BLACK ENAMELLED OUTER CABLE.



With lever end round nipple, adjusting screw and nut, inner wire with nipples soldered on each end, for cable cycle brakes, ready for fitting.

"B.B.L."

Less Cable Stop, suitable for 25/B1330a, b, d, e, t and m "Lion" Central Pull Brakes.

Special Line.

- For Front.
- No. 25/B3044d/4 .. each -/6
 - 25/B3044d/306 .. per doz. —
- For Gent's Rear.
- No. 25/B3044e/6 .. each -/7 1/2
 - 25/B3044e/406 .. per doz. —
- For Ladies' Rear.
- No. 25/B3044f/6 .. each -/9
 - 25/B3044f/506 .. per doz. —

With lever end cup nipple, adjusting screw and nut, inner wire with nipples soldered on each end, for cable cycle brakes, ready for fitting.

"B.B.L."

Less Cable Stop, suitable for Central Pull Brakes.

Special Line.

- For Gent's Front, 1' 9" long.
- No. 25/B3045a/3 .. each -/5
 - 25/B3045a/300 .. per doz. —
- For Gent's Rear, 3' 9" long.
- No. 25/B3045b/5 .. each -/7
 - 25/B3045b/403 .. per doz. —
- For Ladies' Rear, 5' 3" long.
- No. 25/B3045c/6 .. each -/8
 - 25/B3045c/503 .. per doz. —

Phillips' (Genuine).

For "Philco."

- For Gent's Front.
- No. 25/B3045g/5 .. each -/8
 - 25/B3045g/400 .. per doz. —
- For Gent's Rear.
- No. 25/B3045h/6 .. each -/9
 - 25/B3045h/503 .. per doz. —
- For Ladies' Rear.
- No. 25/B3045k/7 .. each -/11
 - 25/B3045k/703 .. per doz. —

"B.B.L."

With Cable Stop suitable for Side Pull Brakes.

Ready for fitting.

Special Line.

- For Gent's Front, 1' 9" long.
- No. 25/B3045d/4 .. each -/6 1/2
 - 25/B3045d/400 .. per doz. —
- For Gent's Rear, 3' 9" long.
- No. 25/B3045e/6 .. each -/8
 - 25/B3045e/503 .. per doz. —
- For Ladies' Rear, 5' long.
- No. 25/B3045f/7 .. each -/9
 - 25/B3045f/603 .. per doz. —



"VINDEC" INNER AND OUTER COMBINED WATERPROOF AND ENAMELLED RIM BRAKE CABLES.

Display box containing 50 Assorted Cables to suit popular makes of Brakes, and those fitted to company-built machines, they made of wood and leatherette covered, with contents printed on back. Only cables in everyday demand included. Each cable packed in transparent waterproof envelope plainly marked with contents.

- No. 25/B3042/2708 .. per box 45/-

For "Tabucchi" Ambra Superge Dural Brake.

- Aluminium finish casing.
- Front for Gent's or Ladies' Machines.
- No. 25/B3044t/10 .. each 1/-
- Rear for Gent's Machine.
- No. 25/B3044w/100 .. each 1/6

"PHILLIPS" GENUINE COMBINED WATERPROOF-COVERED OUTER CABLE AND INNER WIRE.

Phillips' Black Casing.

For Sellwell Brakes (up to 1933).

For Gent's Front.

- No. 25/B3046g/6 .. each -/9
- 25/B3046g/504 .. per doz. —

For Gent's Rear.

- No. 25/B3046h/9 .. each 1/-
- 25/B3046h/800 .. per doz. —

For Ladies' Rear.

- No. 25/B3046k/10 .. each 1/3
- 25/B3046k/900 .. per doz. —

With Round End Pattern Lever End Nipples.

To suit Phillips' No. 3 Levers. For Sellwell Brakes' 1934 Pattern.

For Gent's Front.

- No. 25/B3046gg/6 .. each -/9
- 25/B3046gg/504 .. per doz. —

For Gent's Rear.

- No. 25/B3046hh/9 .. each 1/-
- 25/B3046hh/800 .. per doz. —

For Ladies' Rear.

- No. 25/B3046kk/10 .. each 1/3
- 25/B3046kk/900 .. per doz. —

To suit "Phillite" and "Grand Vite" Side Pull Brakes.

For Front.

- No. 25/B3045l/6 .. each ..
- 25/B3045l/507 .. per doz. ..

For Gent's Rear.

- No. 25/B3045m/9 .. each ..
- 25/B3045m/800 .. per doz. ..

For Ladies' Rear.

- No. 25/B3045n/100 .. each ..
- 25/B3045n/1103 .. per doz. ..

COMBINED WATERPROOF-COVERED OUTER CABLE WITH LEVER END CUP NIPPLE, ADJUSTING SCREW AND NUT. INNER WIRE WITH NIPPLES SOLDERED ONE END, FOR CABLE CYCLE BRAKES READY FOR FITTING.



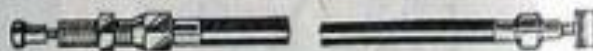
For Side Pull Brakes (with Cable Stop).

With Nipples and Adjuster Screw and Nut.

For "Vindec" or "Webb" Brakes. 25/B1323b, e, m.

"B.B.L."

- No. 25/B3042g/5 For Front .. each -/9
 - 25/B3042h/8 For Gent's Rear .. 1/-
 - 25/B3042k/10 For Ladies' .. 1/3
- Terry's.
- No. 25/B3035a/7 For Front, No. 1285 .. each -/10 1/2
 - 25/B3035b/10 For Gent's Rear, No. 1285A .. 1/3
 - 25/B3035c/100 For Ladies' Rear, No. 1285B .. 1/6



"B.B.L."

SPECIAL LINE.

For Central Pull Brakes (less Cable Stop).

For Gent's Rear, 3' 9" long.

- No. 25/B3042b/8 .. each ..
- 25/B3042b/709 .. per doz. ..

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BRAKE CABLES, ETC.—continued



**"RESILION"
CANTILEVER BRAKE CABLE**

Waterproof covered,
Complete unit with springs, junction box,
adjusters and all nipples soldered on.

For Front Brakes.

No. 25/B3047L/207 .. each 3/10

For Gent.'s Rear Brakes.

No. 25/B3047m/300 .. each 4/6

For Ladies' Rear Brakes.

No. 25/B3047n/304 .. each 5/-

For Two-Gent.'s Tandem Brakes.

No. 25/B3047p/309 .. each 5/6

For Front Tandem.

No. 25/B3047t/308 .. each 5/6



BRAKE CABLE CUP NIPPLES

For enamelled or waterproof casing.

For Phillips' brakes.

No. 25/B3051c/6 .. per doz. -/9

For "Resilion" Brakes.

Blued Finish.

No. 25/B3051e/9 .. per doz. 1/-



**BRAKE BOLTS, Plated, in Box of
One Gross Assorted, fitted with Nuts,**
some with washers.

Comprising 17 patterns for Brake eyes,
Shoes, Caliper levers and clips, stirraps
and stirrup clips, Pull-up levers and stem
clips.

(Everyday requirements.)

No. 25/B3040a/906 .. per box 14/6

Branches:
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Bristol, Cardiff, Cardiff

**"RESILION"
RECONDITIONED CABLES**

Waterproof Covered for Cantilever and
Cantilette Brakes.

Complete unit with springs, junction box,
adjusters and all nipples soldered on.

For Front.

No. 25/B3048a/108 each 2/6

For Gent.'s Rear.

No. 25/B3048b/108 each 2/6

For Ladies' Rear.

No. 25/B3048c/108 each 2/6

For Front Tandem.

No. 25/B3048k/108 each 2/6

For Two-Gent.'s Tandem.

No. 25/B3048L/108 each 2/6

Important.

We have now made arrangements with
the Resilion Co. whereby we can exchange,
from stock, broken or worn cables for
Reconditioned Cable Units at the above
prices.

**"RESILION"
ANCHOR BRAKE CABLES**

Complete with adjusting screw and nut
with nipples soldered on.

For Front.

No. 25/B3049a/100 each 1/6

For Gent.'s Rear.

No. 25/B3049b/100 each 1/6

For Ladies' Rear.

No. 25/B3049c/102 each 1/9

FERRULES

For Waterproof Outer
Cable.

Cycle Size No. 1.

No. 25/B3051g/4 per doz. -/8

25/B3051g/310 per gross —



**"ROSA"
CENTRE CABLE ADJUSTER**

2½" overall. Chromium Plated.

No. 25/B3051w/6 each -/9



**"RESILION"
BRAKE CABLE NIPPLE BARS**

Black only.

For Model Cantilever Brakes.

1½" long for Front.

No. 25/B3052f/400 per doz. 6/-

1" long for Rear.

No. 25/B3052g/400 per doz. 6/-



**BLACK COVERED WATERPROOF
OUTER CABLE** only, for Cable Cycle
Brakes.

Best Quality.

No. 25/B3050a/203 12' length each 3/4

25/B3050b/402 25' 6/3

25/B3050c/900 50' 12/-

25/B3050d/1500 100' 22/6

Silver Finish.

As used on Continental Racing Brakes.

25' lengths.

No. 25/B3050L/400 each 6/3

Duralumin Metal Outer Cable.

(Foreign.)

25' length.

No. 25/B3050x/500 each 7/6



**BRAKE CABLE CUP
NIPPLES**

To fit into Levers, and for use
of outer cable to fit into.

Large size, for waterproof covered.

No. 25/B3051a/6 .. per doz. -/4

Small size, for enamelled casing.

No. 25/B3051b/6 .. per doz. -/4

Nickel Plated for Raleigh.

No. 25/B3051r/6 .. per doz. -/4



"TERRY'S" FERRULES

For Waterproof Outer Cable.

In boxes of 1 Gross assorted.

Sizes Nos. 0, 1 and 2.

No. 25/B3051L/406 .. per box



NUTS FOR CYCLE BRAKE BOLTS

Plated, in Box of One Gross Assorted.

Comprising 7 patterns in various sizes.

threads, suitable for the principal types

of Brake work.

No. 25/B3041x/403 .. per box

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BELL CRANK CLIPS AND BRAKE LEVERS



BELL CRANKS

For "Vindec" and "Phillips" Rear Pull-up or Roller Brakes. Black Enamelled.

Complete with bolts and nuts (as illustrated).

- | | | |
|------------------------------------|---|-------------|
| No. 25/B3064f/4 | Clip Fittings for 1 1/2" Tubes. For left-hand side fitting. | each -/6 |
| 25/B3064f/306 | | per doz. — |
| No. 25/B3064g/4 | For right-hand side fitting. | .. each -/6 |
| 25/B3064g/306 | | per doz. — |
| Bolt Fitting. 1/4" dia. x 2" long. | | |
| No. 25/B3064c/4 | For left-hand side fitting. | .. each -/6 |
| 25/B3064c/303 | | per doz. — |
| No. 25/B3064d/4 | For right-hand side fitting. | .. each -/6 |
| 25/B3064d/303 | | per doz. — |



HEXAGON HEAD BELL CRANK BOLTS

with round shoulders, round Screwed washers, Plain washers, and Hexagon nut, for Phillips' Brakes.

1/4" dia. x 2" long.

- | | | |
|-----------------|---------|-----------------|
| No. 25/B3066p/3 | .. .. . | .. each -/4 1/2 |
| 25/B3066p/209 | | per doz. — |



HEXAGON HEAD BELL CRANK BOLTS

with round shoulders, shaped Collar washers, Plain washers, and Ordinary Hexagon nut for Phillips' Brakes.

3/8" dia. x 2" long.

- | | | |
|-----------------|---------|-----------------|
| No. 25/B3066a/3 | .. .. . | .. each -/4 1/2 |
| 25/B3066a/209 | | per doz. — |



BRAKE LEVERS, PULL-UP, ASSEMBLED COMPLETE WITH CLIP, SPRING AND ROD (less Bottom Parts), NICKEL PLATED

LONG, FOR ORDINARY RAISED

For "Vindec" and "Phillips."

- | | | |
|------------------|----------|----------|
| No. 25/B3078a/11 | Front .. | each 1/5 |
| 25/B3078f/100 | Rear .. | .. 1/5 |

SHORT STRAIGHT, FOR ORDINARY RAISED, FLAT OR DROPPED

For "Vindec" and "Phillips."

- | | | |
|------------------|----------|----------|
| No. 25/B3079a/11 | Front .. | each 1/5 |
|------------------|----------|----------|

SHORT STRAIGHT, WITH HANDLEBAR FITTING

For "Vindec" and "Phillips."

- | | | |
|------------------|----------|----------|
| No. 25/B3081a/11 | Front .. | each 1/5 |
|------------------|----------|----------|

SHORT CRANKED FOR DROPPED

For "Vindec," "Phillips" and No. 21 Toggie.

- | | | |
|-----------------|----------|-------------|
| No. 25/B3080a/9 | Front .. | .. each 1/2 |
|-----------------|----------|-------------|

ROLLER BRAKE LEVERS (Band Clip Fitting), assembled complete with 2 Band Clips, Spring, and Lever Stop, Nut and Washer.

Nickel Plated.

- | | |
|-------------------|------------------------|
| No. 25/B3085b/101 | "Vindec" Front ca. 1/8 |
| 25/B3085f/101 | "Vindec" Rear .. 1/8 |

ROLLER BRAKE LEVERS (Stud Lug Fitting), complete with Nut and Washer only, for fitting to Brakes of the Stud Lug type.

Front—For "Vindec" and "Phillips."

Ordinary Raised

Nickel.

- | | | |
|-----------------|---------|----------|
| No. 25/B3087a/8 | | each 1/1 |
|-----------------|---------|----------|

Chromium.

- | | | |
|-------------|---------|----------|
| 25/B3087b/9 | | each 1/2 |
|-------------|---------|----------|

North Road Raised

- | | | |
|-----------------|---------|----------|
| No. 25/B3087n/9 | | each 1/3 |
|-----------------|---------|----------|

Rear—For Left-hand Fitting, "Vindec" and "Phillips."

Ordinary Raised

Nickel.

- | | | |
|-----------------|---------|----------|
| No. 25/B3088a/8 | | each 1/1 |
|-----------------|---------|----------|

Chromium.

- | | | |
|-------------|---------|----------|
| 25/B3088b/9 | | each 1/2 |
|-------------|---------|----------|

North Road Raised

- | | | |
|-----------------|---------|----------|
| No. 25/B3088n/9 | | each 1/3 |
|-----------------|---------|----------|

North Road Dropped

Nickel.

- | | | |
|-----------------|---------|----------|
| No. 25/B3088p/9 | | each 1/3 |
|-----------------|---------|----------|



SOLID BRAKE LEVERS

Complete with Clip for Caliper Brakes.

For Phillips' "Apollo," "Selfwell," "Philita," "Agrippa" and "Phileo."

- | | | |
|-------------------|----------|----------|
| No. 25/B3093i/100 | Nickel | each 1/5 |
| 25/B3093m/103 | Chromium | .. 1/7 |

For "Vindec" or "Webb."

Chromium Plated.

As fitted to 25/B1323b-e and m Brakes.

- | | | |
|-------------------|---------|----------|
| No. 25/B3090b/106 | | each 2/3 |
|-------------------|---------|----------|



SOLID BRAKE LEVERS

Complete with Clip.

Standard pattern for Monitor Super Cam.

Chromium Plated.

- | | | |
|-------------------|---------|----------|
| No. 25/B3090t/108 | | each 2/3 |
|-------------------|---------|----------|



SOLID BRAKE LEVERS

Complete with Clip.

Sports pattern for Monitor Super Cam.

Chromium Plated.

- | | | |
|-------------------|---------|----------|
| No. 25/B3090s/108 | | each 2/3 |
|-------------------|---------|----------|

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BRAKE LEVERS—continued. BRAKE LEVER CLIPS AND BOLTS



"BARROS"
DUPLEX BRAKE LEVER

Complete with $\frac{1}{2}$ " clip. Prov. Patent.
With two-hole shackle to take front and rear cables with round end nipples.
By slight touch of the hand on duplex lever, equal power and pressure is applied to both front and rear rims, thus eliminating skids on the wettest roads. Should one cable break the other can still be used. Specially suitable for cycle and tandem riders.

Chromium Plated.
No. 25/B3091a/203 each 3/3

"CYCLO ROSA"
RUSTLESS SOLID BRAKE
LEVER AND $\frac{1}{2}$ " CLIP



Chromium.
No. 25/B3095e/104 each 2/-

RESILION "ANCHOR" METAL
LEVER AND CLIP

Complete for Caliper Brakes.
Chromium Plated.

No. 25/B3094r/100 each 1/6



LEVER CLIP ONLY

Less Bolts and Nuts.
For "Phillips" Brakes.

No. 25/B3098a/200 per doz. 3/-

BOLT AND HEXAGON NUT

For "Phillips" Pull-up Brake
lever.
Nickel. $\frac{3}{4}$ " long \times $\frac{1}{4}$ ".
No. 25/B3099p/103 doz. 2/6

For "Phillips" Pull-up Handle-
bar stem clips.

Nickel. $1\frac{1}{2}$ " long \times $\frac{1}{4}$ ".
No. 25/B3099a/103 doz. 2/6



EBONITE COVERED PLATED METAL
LEVER AND CLIP

Complete for Cable Brakes.
Phillips' "Sellwell" or "Phileo"
No. 25/B3092a/100 each 1/6



"RESILION"
CANTILEVER
BRAKE LEVERS

Complete with $\frac{1}{2}$ " Clip, Bolt, Nut
and Clamp Block.

For Cantilever and Cantilette Brakes.
Ordinary Pattern.
No. 25/B3096a/108 Nickel each 2/6
25/B3096b/200 Chromium .. 3/-
25/B3096c/108 Black .. 2/6
Cranked Pattern, Right Hand.
No. 25/B3096d/108 Nickel each 2/6
25/B3096e/200 Chromium .. 3/-
25/B3096f/108 Black .. 2/6
Cranked Pattern, Left Hand.
No. 25/B3096g/108 Nickel each 2/6
25/B3096h/200 Chromium .. 3/-
25/B3096k/108 Black .. 2/6



"RESILION" CANTILEVER BRAKE
LEVERS ONLY

For Cantilever and Cantilette Brake.
"C" Curved Pattern.
Chromium.

No. 25/B3097L/101 each 1/7

LEVER CLIPS for Roller Brakes
Suitable for all regular makes of Roller Brakes.
Nickel Plated. To fit $\frac{1}{2}$ " Bars and $\frac{3}{4}$ " Levers.



No.
25/B3098k/201 each -/4
25/B3098k/200 doz. —



"RESILION"
CANTILEVER BRAKE LEVERS ONLY

For Cantilever and Cantilette Brakes.
Ordinary Pattern.
No. 25/B3097b/101 Chromium each 1/7



"RESILION" CANTILEVER
COUPLED BRAKE LEVERS

Complete with $\frac{1}{2}$ " Clip, Bolt, Nut and
Clamp Block.
Ordinary pattern with additional lug for
for use with coupling front and rear levers
to work on one lever.
Chromium.
No. 25/B3096m/208 each 2/-



METAL LEVER AND CLIP

Complete.
For "Lion" Brakes.
Nickel Plated.
No. 25/B3194d/8 each 1/6
Chromium Plated.
No. 25/B3194e/8 each 1/6
For "Wissner" Brakes. (Foreign)
No. 25/B3094w/109 each 2/6



BOLT AND HEXAGON NUT

For "Phillips" Caliper and
Brake Levers.
Nickel. $\frac{1}{2}$ " long \times $\frac{1}{8}$ ".
No. 25/B3099a/100 each 1/6

For "Phillips" Caliper and Sellwell
Brake lever clips.
Nickel. $\frac{1}{2}$ " long \times $\frac{1}{8}$ ".
No. 25/B3099b/9 .. doz. 1/6
For "Phillips" Brake Levers
No. 25/B3093a.
Chromium Plated. $\frac{1}{2}$ " long \times $\frac{1}{8}$ ".
No. 25/B3099d/100 per doz. 1/6

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BRAKE LEVER CLIPS AND RODS, ETC.



STUD LUGS

With Collar and Screwed Nut for Roller Lever Brakes.

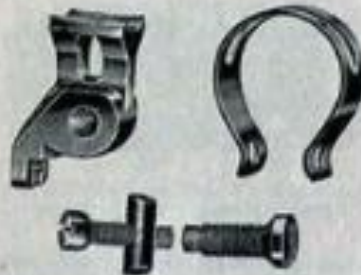
"Vindoc," "Phillips" and "Crabbe."

Nickel Plated.

No. 25/B3146f/100 .. per doz. 3/6

Chromium Plated.

No. 25/B3146g/200 .. per doz. 4/-



RESILION LEVER BAND CLIP FOR GANTILEVER AND GANTILETTE BRAKES, 1935/S PATTERN

With Bolt and Half Round Nut, centre block piece and lever bolt complete.

No. 25/B3100b/100 All Black each 1/6

Black and Chromium.

No. 25/B3100c/11 each 1/4

Lever Band Clip only.

No. 25/B3100e/4 Black .. each -/5

25/B3100f/5 Chromium -/7

Clip Bolt and Half-Round Nut for Band Clip.

No. 25/B3100h/3 Black .. each -/4

25/B3100k/4 Chromium -/6

Lever Bolt only.

No. 25/B3098r/3 Black .. each -/4

25/B3098s/4 Chromium -/6

Lever Clip Liner

No. 25/B3098t/8 .. per doz. 1/-

Centre Block Piece, Black only.

No. 25/B3100w/4 each -/5



BRAKE ROD, with Lug (to rivet in), Chromium Plated, for Front Pull-up Brakes.

"Vindoc," "Phillips."

No. 25/B3149f/200 .. per doz. 3/-



BRAKE ROD, with Lug and Screw, Chromium Plated, for Roller Lever Brakes.

No. 25/B3149k/200 Front per doz. 3/-



BRAKE RODS, with Lugs and Lever Stop, Nickel Plated, for Front Roller Lever Brakes.

For Front on Right-hand side.

"Vindoc," "Phillips" and "Crabbe."

Nickel Plated.

No. 25/B3149L/200 .. per doz. 4/-

Chromium Plated.

No. 25/B3149r/3 each -/6

For Front on Left-hand side.

"Vindoc," "Phillips" and "Crabbe."

Nickel Plated.

No. 25/B3149m/200 .. per doz. 4/-

Chromium Plated.

No. 25/B3149n/3 each -/6



BRAKE ROD, with Lug and Lever Stop, for Rear Roller Brakes.

For Rear on Left-hand side.

"Vindoc," "Phillips" and "Crabbe."

Nickel Plated.

No. 25/B3151a/200 .. per doz. 4/-

Chromium Plated.

No. 25/B3151c/3 each -/6

For Rear on Right-hand side.

"Vindoc," "Phillips" and "Crabbe."

Nickel Plated.

No. 25/B3151L/200 .. per doz. 4/-

Chromium Plated.

No. 25/B3151m/3 each -/6



BRAKE ROD, with Top Lug (to rivet in), Chromium Plated, for Rear Pull-up Brakes.

To fit "Vindoc" and "Phillips."

No. 25/B3150f/200 .. per doz. 4/-



DOWN TUBE FRAME RODS, with Lug and Rivet for Rear Brakes.

To suit "Marco," "Vindoc," "Crabbe," and "Phillips."

No. 25/B3153f/200 .. per doz. 5/-

BRAKE SHOES WITH BLOCKS



Fitted with Rubber Blocks.

Wide section.

Complete with plated bolts, nuts and washers.

Nickel Plated.

No. 25/B3165a/200 per doz. pairs 3/9

All Black.

No. 25/B3165c/200 per doz. pairs 3/9



Fitted with Asbestos Brand Grey Fibre Blocks. Narrow section.

Complete with plated bolts, nuts and washers. Nickel Plated.

No. 25/B3165d/300 per doz. pairs 6/-



Fitted with Rubber Blocks.

Narrow section.

Complete with plated bolts, nuts and washers.

Nickel Plated.

No. 25/B3165g/200 per doz. pairs 3/9

All Black.

No. 25/B3165k/200 per doz. pairs 3/9

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BRAKE SHOES WITH BLOCKS—continued



Fitted with Rubber Blocks
Grooved section, complete with bolts, nuts and washers.
Short pattern, 1 1/4" long.
Specially for Fairycycle Brakes.
No. 25/B3165t/8 Black per pair -/11
For various makes of Toy Cycles.
No. 25/B3165w/3 Plated per pair -/4



Fitted with "Fibrax" Blocks
Narrow section.
Complete with plated bolts, nuts and washers. Nickel Plated.
No. 25/B3166m/409 per doz. pairs 6/6



"JOHN BULL" BRAKE SHOES,
BLACK ENAM., FITTED WITH
BLOCKS FOR RALEIGH
Complete with bolts, nuts and washers.
Packed on Show Cards of 1 doz. pairs.
No. 25/B3167d/504 .. per card 8/-



B.S.A. DETACHABLE BRAKE
SHOES, Oxidized finish, fitted
with Rubber Blocks
For Front Brake.
No. 25/B3171a/101 .. per pair 1/5



Fitted with Asbestos Brand Grey
Fibre Blocks. Wedge Type
Wide section.
Complete with plated bolts, nuts and washers. Nickel Plated.
No. 25/B3166n/300 per doz. pairs 4/6



BRAKE SHOES. Fitted with
"Fibrax" Blocks. Wedge Type
Wide section.
Complete with plated bolts, nuts and Star pattern washers. Nickel Plated.
Packed in boxes of 1 dozen pairs.
No. 25/B3166p/409 per doz. pairs 6/6



BRAKE SHOES, Plated, in box of
1 doz. pairs assorted, fitted with
Rubber, Asbestos and "Fibrax"
Blocks
Comprising 6 patterns, complete with plated
bolts, nuts and Star pattern washers.
No. 25/B3166t/400 .. per box 6/-

PHILLIPS' BRAKE
SHOES, fitted with
Rubber Pads
Complete with bolts and
nuts.
Packed on Show Cards of
1 doz. pairs.
Nickel Plated.
Wide. per card
No. 25/B3170a/207 4/6
Narrow.
No. 25/B3170b/219 5/-
Chromium Plated.
Wide. per card
No. 25/B3170d/211 5/-



Fitted with "Fibrax" Blocks
Wide section.
Complete with plated bolts, nuts and washers. Nickel Plated.
No. 25/B3166d/409 per doz. pairs 6/6



PATENT CAST
NO LOOSE PIECES
BRAKE SHOES, fitted with Rubber
Pads
Wide section.
Complete with plated screws and washers. Nickel Plated.
With Round Pads.
No. 25/B3166w/206 per doz. pairs 3/1
With Wedge Pads.
No. 25/B3166x/206 per doz. pairs 3/1



BRAKE SHOES
Fitted with Carrier Size Blocks
Wedge Type. For Front or Rear
"Vindec" Carrier Brakes
Wide Section.
Complete with bolts, nuts and glass washers.
Nickel Plated.
No. 25/B3169a/800 per doz. pairs 4/6
All Black.
No. 25/B3169c/800 per doz. pairs 4/6



BRAKE SHOES
With Round Studs
Riveted in, complete
with rubber blocks for
25/B1339a, d and e
"Lion" Central Pull
Brakes up to 1937-38.
No. 25/B3171t/4 .. per pair 1/5
25/B3171L/309 .. per doz. pairs 1/5

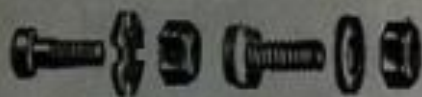
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BRAKE BOLTS AND SPRINGS, ETC.



BRAKE SHOE SCREWS, NUTS AND WASHERS

Plated. $\frac{3}{8}$ " x 30 thread.

With Screw-on Star washer.

No. 25/B3176a/9 per doz. 1/6

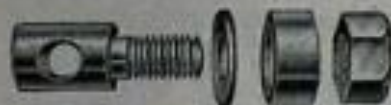
With Plain washer.

No. 25/B3176b/8 per doz. 1/-

"RESILION" BRAKE SHOE NUTS, $\frac{3}{8}$ "

All Black.

No. 25/B3178c/8 per doz. 1/-

BRAKE SHOE EYE OR DRAW BOLT
To fit "Lion" Brake Stirrups, complete with collar, washer and hexagon nut.
No. 25/B3180b/204 .. per doz. 3/6

BRAKE SPRINGS

For Phillips' "Philite" or "Agrippa" for Bolt Fitting.

No. 25/B3184w/106 .. per doz. 2/-

For Vindec Brakes 25/B1323b, e, m.
No. 25/B3184z/2 each -/3For Radnall "Grip-it" Brakes.
Chromium Plated.
No. 25/B3184L/106 .. per doz. 2/6BRAKE SHOE EYE OR DRAW BOLT
To fit "Phillips'" Brake Stirrup to Apollo, Sellwell and Philco.
Complete with collar, washer and hexagon nut.

Nickel Plated.

No. 25/B3180g/200 .. per doz. 3/-

Chromium Plated.

No. 25/B3180h/206 .. per doz. 4/-



BRAKE SPRINGS

For Monitor Super Cam Brakes.
Front and Rear.No. 25/B3184m/3 each -/4 $\frac{1}{2}$

BRAKE SHOE HOLDER OR SLIDE

For Monitor Super Cam Brakes

No. 25/B3181/2 Black each -/3

For Central Pull Brakes
For Phillips' "Sellwell."

No. 25/B3184a/8 Nickel doz. 1/6

Chromium Plated.

No. 25/B3184b/100 doz. 2/-

For "Constrictor."

Nickel Plated.

No. 25/B3184c/106 doz. 2/6



BRAKE SPRINGS

For Monitor Climax Brakes.
Front and Rear.

No. 25/B3184n/2 each -/3

For "Wisner" Caliper Cable Brake.
(Foreign.)

No. 25/B3184x/206 .. per doz. 3/9



LEVER BRAKE SPRINGS

For Front Bar fitting "Phillips'" Brakes.

No. 25/B3185d/9 Plated per doz. 3/-



LEVER BRAKE SPRINGS

For Rear Stem fitting "Vindec" and "Phillips'" Brakes.

No. 25/B3185p/9 Plated per doz. 3/-



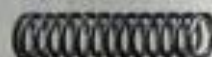
LEVER BRAKE SPRINGS

For Rear Pull-up or Roller Bottom Bracket clip fitting "Vindec" and "Phillips'" Brakes.

No. 25/B3185t/9 Plated per doz. 3/-

LEVER BRAKE SPRINGS
To suit Fairycycle Pull-up Front Brakes.

No. 25/B3185w/300 Plated per doz. 4/-



PLUNGER COIL SPRINGS

Plated.

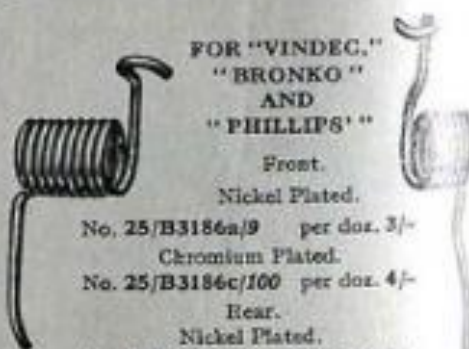
For Spoon Tyre Brakes.

For Fairycycles. 6 $\frac{1}{2}$ " long.

No. 25/B3185x/3 each -/3

For Various Toy Cycles. 3" long.

No. 25/B3185y/3 each -/3

FOR "VINDEC,"
"BRONKO"
AND
"PHILLIPS'"

Front.

Nickel Plated.

No. 25/B3186a/9 per doz. 3/-

Chromium Plated.

No. 25/B3186c/100 per doz. 4/-

Rear.

Nickel Plated.

No. 25/B3186b/9 per doz. 3/-

Chromium Plated.

No. 25/B3186d/100 per doz. 4/-

Branches:
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Birmingham, Bournemouth,
Bristol, Cardiff, Carlisle,
Croydon, Dublin, Dundee,
Exeter, Glasgow, Edinburgh,
Glasgow, London, Manchester,
Newcastle, Nottingham,
Plymouth, Reading, Southampton,
Tottenham, Wakefield.

Head Office and Warehouse, Wholesale only:

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124 GEORGE STREET, EDINBURGH, 2

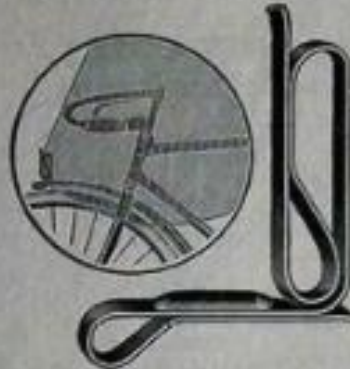
Branches:
Belfast, London, Liverpool,
London, W.1,
Manchester, Newcastle,
Nottingham, Southampton,
Tottenham, Wakefield,
Wolverhampton.

CARRIERS (FRONT)—continued

TERRY'S CRICKET BAT
CYCLE CARRIER CLIPS

For attaching to handlebar and front hub spindle.

No. 25/C123t/190 per pair 1/6
25/C123t/1290 per doz. prs. —

"BROOKES" SPRING-STEEL GAPE
CLIP

Blued Finish.

To fit on front mudguard extension. Packed on display cards of 1 dozen.

No. 25/C124/400 per card 6/-



POCKET ALUMINIUM FLASKS.

Very light and strong, with cork and retaining chain. (Foreign.)

Small size. each 1/9
No. 25/C129a/104
Medium size. each 2/-
No. 25/C129b/106
Large size. each 2/3
No. 25/C129c/108

SIMPLEX TYPE "TOUR DE
FRANCE" FLASK CARRIERS

Continental make. Made from round tinned wire with three metal clips, screws and nuts for handlebar and stem fitting. Complete with polished ribbed aluminium flask with cork.

No. 25/C130t/268 Single .. each 4/-
25/C130n/403 Double 6/6

Aluminium flasks ribbed and polished, with corks.

No. 25/C130r/104 each 2/-



"CYCLO" FLASK CARRIER

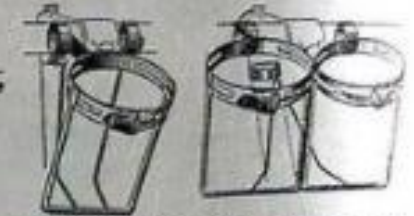
Made from stout round tinned wire, with metal clips for handlebar and forward lug, complete with two Aluminium Flasks, with corks.

Double.
No. 25/C130d/311 Complete each 5/10

Single.
No. 25/C130c/203 each 3/5

Aluminium Flasks only, for above, complete with corks.

No. 25/C130f/103 each 1/11

THE CONTINENTAL ALUMINIUM
FLASK CARRIERS. (Foreign)

With Special Spring Clip which releases or fastens at slightest pressure, eliminates rattle. Complete with stem and handlebar clips, Aluminium Flask, with cork.

No. 25/C130p/305 Single .. each 4/6
25/C130s/600 Double .. each 8/-
Aluminium Flasks only with Corks each 1/9
No. 25/C130w/104 each 1/9



POCKET ALUMINIUM FLASK

Exceptionally strong, very light, with screw-on cap. (Foreign.)

No. 25/C130z/108 each 2/3

REPLACEMENT CORKS TO
SUIT ALUMINIUM FLASKS

Small size to fit Cyclo No. 25/C130f and Continental No. 25/C130w.

No. 25/C130t/103 per doz. 2/-

Large size to fit Aluminium Flasks No. 25/C131h.

No. 25/C131s/103 per doz. 2/-

TERRY'S LIGHT-WEIGHT SINGLE
FLASK CARRIER

With special spring steel band which grips the bottle securely and still enables it to be easily taken out and replaced with one hand when riding.

With clip to fit on handlebar and stem. Rustproof finish, rattle-proof. Each carrier boxed.

Complete less bottle.
No. 25/C131t/108 each 2/6

Bottles only to suit above, if customer requires complete send No. 25/C131b

Branches:
Aberdeen, Ayr, Belfast,
Birmingham, Bournemouth,
Bristol, Cardiff, Chelsea,
Croydon, Dublin, Dundee,
Edinburgh, Exeter, Glasgow,
Hull, Ipswich, Liverpool,
London, W. J.

Head Office and Warehouse, Wholesale only

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Branches:
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London, W. J.
Manchester, Newcastle,
Nottingham, Southampton,
Sheffield, Tyneside

CARRIERS (FRONT)—continued



"BROOKES" NON-RATTLE LIGHT-WEIGHT FLASK CARRIER

Made of strong rustless flat wire with cam action quick release grip fitting to release or fasten bottle and also eliminate all rattle. Handlebar leather strap and stem clip fitting.

- Single.
 No. 25/C131k/208 With Bottle each 3/6
 25/C131L/109 Without Bottle .. 1/6
 Double. Without Bottles.
 No. 25/C131m/198 .. each 2/6
 Double. With Two Bottles.
 No. 25/C131n/408 .. each 6/6
 Aluminium bottles only for above.
 No. 25/C131h/166 .. each 2/-
 25/C131h/1709 .. doz. —



THERMOS CARRIER

Black enamel, with clip to fit on handlebar (less flask). Flask held securely in position by means of a coil spring.

- No. .. each
 25/C132a/11 1/5



TERRY'S TENNIS RACKET OR HOCKEY STICK CARRIER CLIPS

To fit on front fork, does not interfere with the steering, lamp or cyclometer.

- Enamelled.
 No. 25/C132p/104 .. each 2/-
 Plated.
 No. 25/C132r/108 .. each 2/6



DUNN'S IMPROVED STOVE CARRIER CLIPS

To fit on handlebar. Specially suitable for carrying Primus and Optimus stoves on cycle. Useful for Touring Cyclists, etc.

- Black Enamelled, Size 1 to suit No. 96 Primus and Optimus Stoves.
 No. 25/C134a/9 .. each 1/-
 25/C134a/800 .. per doz. —
 Black Enamelled, Size 2 to suit No. 210 Primus and Optimus Stoves.
 No. 25/C134b/9 .. each 1/-
 25/C134b/800 .. per doz. —



"TERRY" PRIMUS STOVE CARRIER SPRING CLIPS

To fit on top tube, with swivel bolt and wing nut. Cadmium Plated. Rustproof finish.

- To suit Nos. 96 and 96t Primus Stoves. Small size.
 No. 25/C134f/6 .. each -/9
 To suit Nos. 210 and 210t Primus Stoves. Large size.
 No. 25/C134g/6 .. each -/9



"B.B.L." STOVE CARRIER CLIPS

Stamped Brass. Brassed, Polished and Lacquered. Hinged with bolt and winged nut, suitable for sweating or brazing to Primus stoves, and to fit on top tube of cycle.

- No. 25/C134s/6 .. each -/8



"B.B.L." STOVE CARRIER CLIPS

Brass Polished and Lacquered. Hinged with bolt and winged nut, suitable for sweating or brazing to Primus stoves, and to fit on top tube of cycle.

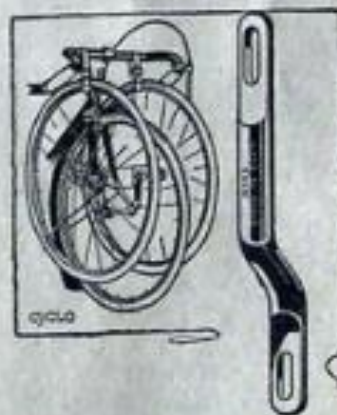
- Heavy Cast Brass.
 No. 25/C134r/8 .. each 1/-



SPRINT WHEEL CRANKED CARRIER BRACKETS

To fit on front hub spindle to carry spare wheels.

- Chromium Plated.
 No. 25/C136c/101 .. per pair 1/7
 Black Enamelled.
 No. 25/C136d/10 .. per pair 1/3



"ROSA" SPRINT WHEEL CRANKED CARRIER BRACKETS

To fit on front hub spindle and designed to suit 26" or 27" wheels.

- Machined, Polished and Chromium Plated. Weight 5 oz. pair
 No. 25/C136r/100 .. per pair 1/6

Brown Brothers
 Aberdeen, Ayr, Belfast
 Birmingham, Southampton
 Bristol, Cardiff, Carlisle
 Exeter, Glasgow, Dundee
 Edinburgh, London
 Glasgow, Inverness

Head Office and Warehouse, Wholesale only

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CARRIERS (REAR)—continued
STAY CLIP FITTING

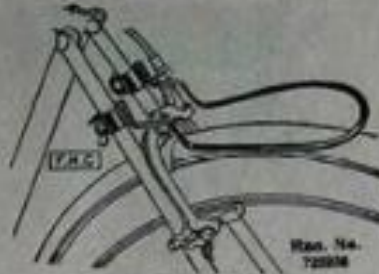


"TERRY"
WIRE FRAME
CAPE CARRIER

Black enamelled with bolt and wing nut fastening to slip round seat pillar.

Weight 2 oz.

No. 25/C147r/8 each 1/-



"GRUBB"
WIRE FRAME CARRIER

To support Touring Bag. Clip to suit Racing pattern round top back stays, and made to clear rear Caliper brake.

No. 25/C148s/9 Ebony each 1/-



THE NEW "GRUBB"
WIRE FRAME CARRIER

To support Tourist Bag, with two cross plates, making it very rigid. Side stays have clip, but can be fitted direct to beam on mudguard eyes. Weight 10 oz., size 11" x 4".

Coated and Black Enamelled.

No. 25/C148L/101 each 1/4



"BROOKES"
WIRE FRAME
CARRIER

To support Touring Bag.

Black Enamelled.

With Bottom Stays and Clips.

No. 25/C148p/8 each 1/-



"MIDLAND" UNIVERSAL

Bag support. Black Enamelled. With Bottom Stays and Clips.

No. 25/C148w/10 each 1/2
25/C148w/904 per doz. —



BROOKES "HANDY" WIRE
BAG SUPPORT

To Clip on Back Stays. Size 9" wide. Black Enamelled. (No. 29k)

No. 25/C148s/10 each 1/3



"BROOKES" NEW CLIPLESS BAG
CARRIER SUPPORT (No. 29k)

Designed to spring round seat stays and hold firmly without any clips. Strong single wire carrier with hooked ends covered.

Black enamelled.

No. 25/C148t/6 each -/9



TUBULAR
CAPE AND
LEGGERS
CARRIER

With neat pouch fitted with two press studs to carry small tools and two 20" straps run through saddle eyelets.

No. 25/T440x/111 Black Rexine each 1/8



"TOURIST"
BAG SUPPORT (No. 37)

Enamelled with Plated Stay Clips.

No. 25/C149d/100 each 1/5



"MIDLAND" UNIVERSAL
IMPROVED BAG SUPPORT

Black Enamelled.

With Bottom Stays and Clips, wide base 13" across, 5 1/2" deep, preventing touring bag from sagging.

No. 25/C148x/100 each 1/5
25/C148x/110s per doz. —



"GLUBBER"
BAG SUPPORT (No. 34)

Enamelled with Plated Stay Clips.

No. 25/C149t/8 each 5/-

Branches:
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Birmingham, Blackburn,
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Croydon, Dublin, Dundee,
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Tisbury, Truro.

GREAT EASTERN STREET, LONDON, E.C.2

CHAINS (CYCLE)



HUXLEY'S
CYCLE SPEED CHAIN

An attachment from the rider to the cycle. This speed chain has been tried out and adopted by many prominent riders who have found that it promotes greater speed with less effort and reduces fatigue when hill climbing.

Complete with clip and hook for attaching to top tube and belt of cyclist.

Each chain packed in carton with fitting instructions.

No. 25/C300/8 Nickel plated each 1/-



"VINDEC" SOLID ROLLER CYCLE CHAIN

High Grade, Thoroughly Tested. Breaking Strain over 1 ton. Perfectly riveted with Free-running Rollers. With Bolt and Nut Fastening. BRITISH MAKE.

No. 25/C320r/110 1/2" pitch x 3/8" x 5' 0" or 120 links each 2/9
25/C320r/110 Lots of 12



THE "COVENTRY" BLOCK CHAIN

With Bolt and Nut Fastening.

No. 25/C345g/1300 1" x 1/2" x 5' or 60 links (135040) each 18/4
25/C345r/1500 1" x 3/4" x 5' or 60 .. (135041) .. 19/7

"RENOLD-ELITE"
CYCLE CHAIN

With Spring Clip Fastening.



1/2" x 1/2". No. 111044.
No. 25/C346a/208 4' 6" or 108 links .. each 4/3
25/C346b/209 4' 7" or 110 4/3
25/C346c/210 4' 8" or 112 4/3
25/C346d/211 4' 9" or 114 4/3
25/C346e/212 4' 10" or 116 4/3
25/C346g/300 5' 0" or 120 4/3

1/2" x 1/2". For Tandems and Derailleur Gears.

No. 25/C346h/308 6' 0" or 144 links (111044) each 5/3

1/2" x 3/8". No. 111046.

No. 25/C346n/211 4' 10" or 116 links .. each 4/3
25/C346r/300 5' 0" or 120 4/3

THE COVENTRY "TRADE CARRIER" CYCLE CHAIN

With Spring Clip Fastening.

No. 25/C350m/305 1/2" x 3/8" x 4' 9" or 114 links (112045) each 5/-



"PANTHER" CYCLE ROLLER CHAIN

With Recessed Rivets, Free-running Rollers. With Spring Clip Fastening. BRITISH MAKE.

No. 25/C310n/109 1/2" x 3/8" x 4' 10" or 116 links .. each 2/6
25/C310n/109 Lots of 12
25/C310r/109 1/2" x 3/8" x 5' or 120 links 2/6
25/C310r/109 Lots of 12

"STANDARD" CYCLE ROLLER CHAIN

With Blue Outer and Straw Colour Inner Plates. Bolt and Nut Fastening. Good Quality. Packed in Attractive Cartons. (Foreign.) 1/2" pitch x 1/2" wide x 116 links.

No. 25/C378e/105 each 2/-
25/C378e/1606 per doz. ..
25/C378e/1600 Lots of 50



"B.S.A." CYCLE CHAIN

No. 25/C331e/401 1/2" pitch x 1/2" x 4' 10" or 116 links each 5/6
25/C331g/402 1/2" .. x 1/2" x 5' 0" or 120 5/6



THE
"COVENTRY"
CYCLE CHAIN

With Spring Clip Fastening.



1/2" x 1/2". No. 111048.
No. 25/C340a/201 4' 6" or 108 links .. each 3/3
25/C340b/202 4' 7" or 110 3/3
25/C340c/202 4' 8" or 112 3/3
25/C340d/202 4' 9" or 114 3/3
25/C340e/203 4' 10" or 116 3/3
25/C340g/203 5' 0" or 120 3/3

1/2" x 1/2". For Tandems and Derailleur Gears.

No. 25/C340h/209 6' 0" or 144 links (111048) each 4/-

1/2" x 3/8". No. 111049.

No. 25/C340k/201 4' 7" or 110 links .. each 3/3
25/C340l/202 4' 8" or 112 3/3
25/C340m/202 4' 9" or 114 3/3
25/C340n/203 4' 10" or 116 3/3
25/C340r/203 5' 0" or 120 3/3

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CHAINS—(CHAIN BOLTS AND CONNECTING LINKS)—continued



"PERRY" BEST BLUE CYCLE CHAIN

With Bolt and Nut Fastening.

No. 25/C354a/201	1" pitch x 1/2" x 4' 6" or 108 links	each 3/3
25/C354b/201	" " x 1/2" x 4' 7" or 110 "	" 3/3
25/C354c/201	" " x 1/2" x 4' 8" or 112 "	" 3/3
25/C354e/202	" " x 1/2" x 4' 10" or 116 "	" 3/3
25/C354g/203	" " x 1/2" x 5' 0" or 120 "	" 3/3
25/C354n/202	" " x 1/2" x 4' 10" or 116 "	" 3/3
25/C354r/203	" " x 1/2" x 5' 0" or 120 "	" 3/3
25/C356g/203	" " x 1/2" x 5' 0" or 96 "	" 3/3

Twin Roller.

No. 25/C356c/201	1" pitch x 1/2" x 5' 0" or 60 links	each 4/5
25/C356g/201	1" " x 1/2" x 5' 0" or 60 "	" 4/5
25/C356r/200	1" " x 1/2" x 5' 0" or 60 "	" 6/11

"PERRY" CARRIER CYCLE CHAIN

With Spring Clip Fastenings.

No. 25/C359f/303	1" pitch x 1/2" x 4' 7" or 110 links	each 4/7
25/C359g/303	" " x 1/2" x 4' 7 1/2" or 111 "	" 4/7
25/C359h/304	" " x 1/2" x 4' 8" or 112 "	" 4/8
25/C359m/307	" " x 1/2" x 5' 0" or 120 "	" 5/-
25/C359r/307	1" " x 1/2" x 5' 0" or 120 "	" 5/-



"COVENTRY" Bolts and Nuts.

No. 25/C396m/8	1/2", 3/4" and 1" x 1/4" doz. 1/-
25/C396n/300	per gross —
25/C396o/8	1/2", 3/4" and 1" x 1/8" doz. 1/-
25/C396n/506	per gross —

"Trade Carrier."

No. 25/C396a/9	1" x 1/2" doz. 1/-
25/C396a/806	per gross —

For Block Chain.

No. 25/C396w/205	1" x 1/2" per doz. 3/6
25/C396x/205	1" x 3/8" " 3/6

"PERRY" Bolts and Nuts.

No. 25/C398a/6	1/2", 3/4" and 1" x 1/4" doz. -/9
25/C398a/509	per gross —
25/C398b/6	1/2", 3/4" and 1" x 1/8" doz. -/9
25/C398b/509	per gross —
25/C398h/7	1" and 1" x 1/2" doz. -/10
25/C398h/609	per gross —

ASSORTED CHAIN BOLTS AND NUTS

Best quality, for "Coventry," "Vindco," "Perry," etc.

Box of 1 gross.

No. 25/C399a/606	per box 9/-
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Box of 6 dozen.

No. 25/C399b/309	per box 5/-
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Smaller quantities.

No. 25/C399d/7	per doz. 1/-
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CRANKED LINKS

"B.S.A." With Bolt and Nut.

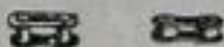
No. 25/C405a/304	1" x 1/2" per doz. 4/5
25/C405b/304	1" x 3/8" " 4/5

"PERRY" With Bolt and Nut.

No. 25/C409a/101	1" x 1/2" per doz. 1/11
25/C409b/101	1" x 3/8" " 1/11
25/C409g/101	1" x 1/2" " 1/11

With rivet, for Carrier Cycle Chain.

No. 25/C409s/109	1" x 1/2" per doz. 3/-
25/C409t/109	1" x 1/2" " 3/-



"RENOLD" SPRING AND INNER LINK

(Nos. 4 and 26 for 111040).

No. 25/C436a/103	1" x 1/2" per doz. 1/9
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(Nos. 4 and 26 for 111041).

No. 25/C436b/103	1" x 3/8" per doz. 1/9
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"B.S.A." CONNECTING LINK

With patent S fastening.

1" x 1/2"

No. 25/C430a/108 doz. 3/4

1" x 3/8"

No. 25/C430b/108 doz. 3/4



"PERRY" DERAIL CYCLE CHAIN

Designed particularly for use on Derailleur Gears, "Cycle," "Trivelox," etc., with spring clip fastening 1/2" x 1/2" x 5' or 120 links.

No. 25/C361g/309	each 5/-
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"RENOLD" CYCLE CHAIN

With Spring Clip Fastening.



No. 25/C365a/208	1" x 1/2" x 4' 6" or 108 links	each 4/7
25/C365b/209	" " x 1/2" x 4' 7" or 110 "	" 4/7
25/C365c/210	" " x 1/2" x 4' 8" or 112 "	" 4/8
25/C365d/211	" " x 1/2" x 4' 9" or 114 "	" 4/8
25/C365e/211	" " x 1/2" x 4' 10" or 116 "	" 4/8
25/C365g/300	" " x 1/2" x 5' 0" or 120 "	" 4/8

For Tandem and Derailleur Gears.

No. 25/C365h/308	1" x 1/2" x 6' 0" or 144 links	each 5/11
No. 25/C365m/211	1" x 1/2" x 4' 9" or 114 links	each 4/8
25/C365n/211	1" x 1/2" x 4' 10" or 116 "	" 4/8
25/C365r/300	1" x 1/2" x 5' 0" or 120 "	" 4/8



"COVENTRY" SPRING LINK

For 1933/6 pattern "Coventry" Chain.

With large diameter rivets.

No. 25/C424a/7	1" x 1/2" per doz. 1/-
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(No. 26 for 111049).

No. 25/C424b/7	1" x 3/8" per doz. 1/-
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For Trade Carrier Chain.

(No. 26 for 112045).

No. 25/C424t/10	1" x 3/8" per doz. 1/-
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"RENOLD-ELITE"

(No. 26 for 111044).

No. 25/C424f/10	1" x 1/2" per doz. 1/-
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(No. 26 for 111046).

No. 25/C424g/10	1" x 3/8" per doz. 1/-
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"PERRY" SPRING LINK

For Cycle Chain.

No. 25/C425k/7	1" x 1/2" per doz. 1/-
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For Carrier Cycle Chain.

No. 25/C425m/10	1" x 1/2" per doz. 1/-
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For Derail Chains.

No. 25/C425n/11	1" x 1/2" per doz. 1/-
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Spring Clips only. (No. 26 for 111041).

No. 25/C425r/3	per doz. 1/-
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"RENOLD" SPRING LINK

(No. 26 for 111040).

No. 25/C426a/10	1" x 1/2" per doz. 1/-
-----------------	------------------------

(No. 26 for 111041).

No. 25/C426b/10	1" x 3/8" per doz. 1/-
-----------------	------------------------

With small diameter rivets for all Renold Chain prior to 1933. These suit old pattern Coventry.

No. 25/C426c/7	1" x 1/2" per doz. 1/-
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25/C426d/7 1" x 3/8" per doz. 1/-

Branches: Aberdeen, Aston, Belfast, Birmingham, Southampton, Bristol, Cardiff, Colindale, Coventry, Dublin, Dundee, Exeter, Glasgow, London, Liverpool, Manchester, Newcastle, Nottingham, Southampton, Swansea, Tyneside, Wakefield, Wolverhampton.

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CHAIN CONNECTING LINKS—continued
CHAIN RIVET EXTRACTORS AND CHAIN RIVET PUNCHES



"COVENTRY" CRANKED DOUBLE LINKS

(No. 30 for 111048).
No. 25/C438a/101 $\frac{1}{2}$ " x $\frac{1}{2}$ " .. doz. 1/9
(No. 30 for 111049).
No. 25/C438b/101 $\frac{1}{2}$ " x $\frac{3}{8}$ " .. doz. 1/9
(No. 30 for 112045).
 $\frac{1}{2}$ " x $\frac{3}{8}$ " for Trade Carrier Chain.
No. 25/C438s/105 .. per doz. 2/3



"RENOLD-ELITE" CRANKED DOUBLE LINK

Complete with spring link.
(Nos. 26 and 30 for 111044).
No. 25/C440a/3 $\frac{1}{2}$ " x $\frac{1}{2}$ " .. each -/4
25/C440a/203 .. per doz. —
(Nos. 26 and 30 for 111046).
No. 25/C440b/3 $\frac{1}{2}$ " x $\frac{3}{8}$ " .. each -/4
25/C440b/203 .. per doz. —
"RENOLD" CRANKED DOUBLE LINK
Complete with spring link.
(Nos. 26 and 30 for 111040).
No. 25/C445a/3 $\frac{1}{2}$ " x $\frac{1}{2}$ " .. each -/4
25/C445a/203 .. per doz. —
(Nos. 26 and 30 for 111041).
No. 25/C445b/3 $\frac{1}{2}$ " x $\frac{3}{8}$ " .. each -/4
25/C445b/203 .. per doz. —



"PENNANT" HARDENED STEEL CENTRE AND PIN PUNCHES

Size 4" x $\frac{1}{2}$ ". On showcards of one dozen assorted.
No. 25/C486/406 .. per card 6/-



SPRING CLIPS ONLY

"RENOLD" $\frac{1}{2}$ " pitch.
(No. 27 for 111040-1).
No. 25/C449a/2 doz. -/3
"PERRY" $\frac{1}{2}$ " pitch.
No. 25/C449p/4 doz. -/6



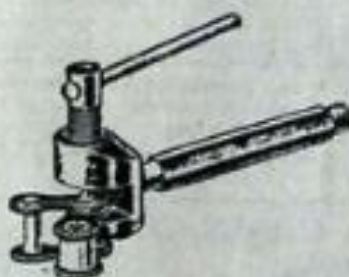
"CAM" CHAIN HOOK

With $\frac{1}{8}$ " centre pin to braze into frames, unplated.
No. 25/C471/5 per doz. 1/-
25/C471/406 per gross —



"CHATER LEA" CHAIN HOOKS

Unplated to braze on.
No. 25/C470/9 per doz. 1/-
25/C470/806 per gross —



CHAIN RIVET EXTRACTOR
For Cycle Chains $\frac{1}{2}$ ", $\frac{3}{8}$ " or $\frac{1}{2}$ " wide.

"KING DICK" (No. G1)
No. 25/C480k/104 each 2/-
"VINDEC"
No. 25/C480v/102 each 1/9



"COVENTRY" CONNECTING LINK

With two bolts and nuts. For Block Chain.
(No. 11 for 135040).
No. 25/C453a/7 1 " x $\frac{1}{2}$ " .. each -/9
(No. 11 for 135041).
No. 25/C453b/7 1 " x $\frac{3}{8}$ " -/9



THE "COVENTRY" CYCLE CHAIN RIVET EXTRACTOR (No. 311500)

Complete with two detachable push-in punches.
No. 25/C480c/111 each 2/6
Push-in punches only for above.
No. 25/C480f/1 each -/2



"PENNANT" CHAIN RIVET EXTRACTOR

Compact, strongly made, simple in construction and use. Instantly removes links from any bicycle, motor cycle or light car chain.
No. 25/C480p/300 each 4/-



"MARCO" CHAIN RIVET PUNCH (British Made)
With Small Pin Point.

No. 25/C485a/406 Size 4" x $\frac{1}{2}$ " per doz. 6/-

"STARRETT"

No. 25/C485k/700 Size 4" x $\frac{1}{2}$ " per doz. 10/6



CHAIN RIVET PUNCH (British Made)

With Small Pin Point.

No. 25/C485r/306 Size 6" x $\frac{1}{2}$ " per doz. 5/-

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CHAIN ADJUSTERS



SPECIAL QUALITY

$\frac{1}{2}$ " hole, $\frac{1}{8}$ " stem. British Made.
With open end caps.

Nickel Plated.

No. 25/C501a/101 per doz. pairs 2/-

25/C501a/1209 per gross .. —

Rustproof Black.

No. 25/C501b/101 per doz. pairs 2/-

25/C501b/1209 per gross .. —

With closed end caps.

Nickel Plated.

No. 25/C501d/101 per doz. pairs 2/-

25/C501d/1209 per gross .. —

Rustproof Black.

No. 25/C501e/101 per doz. pairs 2/-

25/C501e/1209 per gross .. —

$\frac{1}{2}$ " hole (to fit over cone collar), $\frac{1}{8}$ " stem.

With open end caps.

Rustproof Black.

No. 25/C501h/101 per doz. pairs 2/6



CHAIN ADJUSTERS

For Drop-out Fork Ends.

British made with turned over lip to fit into fork end slots and plate to fit over rear, with small wing nuts.

Black Oxidized Finish.

No. 25/C503r/300 .. doz. pairs 4/6

This Chain Adjuster prevents wheel pulling over and will strongly appeal to all users of sports machines.



BEST QUALITY

$\frac{1}{2}$ " hole, $\frac{1}{8}$ " stem. With large closed caps.
Nickel Plated.

No. 25/C502a/204 per doz. pairs 3/6

Black.

No. 25/C502b/204 per doz. pairs 3/6



"ROSA" REAR WHEEL CHAIN ADJUSTERS OR STOPS

For use with "Cyclo" Two- or Three-speed Chain Gears, for instantaneous adjustment.

On show cards of 1 dozen pairs.

No. 25/C518r/7 per pair -/9

25/C518r/809 per card —

Boxes containing 3 doz. pairs

Chain Adjusters. Assorted

No. 25/C505f/409 per box 7/6

This is a very useful assortment for Cycle Agents.



EXTRA STRONG

$\frac{1}{2}$ " hole (to fit over cone collar), or for Carrier Cycles.

$\frac{1}{8}$ " stem, large hexagon nut and large closed caps.

All Black.

No. 25/C502n/300 per doz. pairs 4/-



BEST QUALITY

To slide in fork-end slots, $\frac{1}{2}$ " hole (to fit over cone collar), $\frac{1}{8}$ " stem, and hexagon nut not square (as illustrated). Nickel Plated.

With large closed caps.

No. 25/C503c/209 per doz. pairs 4/-



"Chater Lea" Chain Adjusters Complete

For No. 4a Fork Ends.

No. 25/C510a/101 Nickel. per doz. 4/6

25/C510b/100 Chromium. per doz. 4/6

For No. 5 Fork Ends.

No. 25/C510g/103 Nickel. per doz. 4/6

25/C510h/108 Chromium. per doz. 4/6

For Carrier Hubs.

No. 25/C510i/107 Nickel. per doz. 4/6

CHAIN COVERS



"VINDEC" CELLULOID. FULL LENGTH

Transparent, without disc.

No. 25/C704c/110 19 $\frac{1}{2}$ " centres for 44 T. wheels each 2/8

Black Celluloid, without disc.

No. 25/C705a/110 Juvenile 17" centres for 40 T. wheels each 2/8

25/C705c/110 19 $\frac{1}{2}$ " centres for 44 T. 2/8

25/C705d/110 19 $\frac{1}{2}$ " 48 T. 2/8

BLUEMEL'S "FEATHERWEIGHT"

Black Celluloid.

No. 25/C714c/306 19 $\frac{1}{2}$ " centres for 48 T. wheels each 5/-

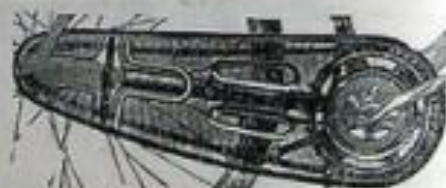


"VINDEC" CELLULOID. FULL LENGTH

Transparent, with plated disc.

No. 25/C702c/200 19 $\frac{1}{2}$ " centres for 44 T. wheels each 2/8

25/C702d/200 19 $\frac{1}{2}$ " 48 T. 2/8



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Head Office and Warehouse, Wheelwrights only:

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Waterbury

CHAIN COVERS—continued



"VINDEC"

METAL CHAIN GUARDS OR TROUSER PROTECTORS

Black enamelled with clips for $1\frac{1}{4}$ " down tube.22 $\frac{1}{2}$ " long for 26" or 28" wheels.

With "D" chain stay clips.

For Roadster Cycles

No. 25/C730e/100	With green line	each 1/6
25/C730e/1100		per doz. —
25/C730f/100	With gold line	each 1/6
25/C730f/1100		per doz. —

With $\frac{1}{2}$ " round chain stay clips for Sports Cycles.

No. 25/C730g/100	With gold line	each 1/6
25/C730g/1100		per doz. —
25/C730h/100	With green line	each 1/6
25/C730h/1100		per doz. —

With black crystal finish panel with "D" clip.

For Roadster Cycles

No. 25/C730e/101		each 1/8
25/C730e/1203		per doz. —

For Juvenile Cycles

With "D" chain stay clips with gold lines

15" long for 14" and 16" wheels.

No. 25/C730a/100		each 1/6
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29 $\frac{1}{2}$ " long for 24" wheels

No. 25/C730c/100		each 1/6
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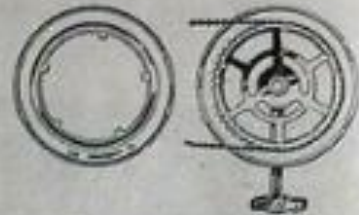
METAL CHAIN GUARD OR COVER

Black enamelled and gold lined.

13" long overall x 6" deep

For Fairycycle

No. 25/C735b/104	each 2/-
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"MIDLAND" CHAIN WHEEL GUARD FOR 48T WHEELS ONLY

This neat device clips on the offside of the chain wheel and protects the rider's trousers from the chain, without the necessity for trouser clips, the ideal fitment for the business rider. Very simple to fit.

Black Enamelled. No. 58B.

No. 25/C738b/10	each 1/6
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Chromium Plated. No. 58 C.P.

No. 25/C738c/102	each 1/6
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White Enamelled. No. 58W.

No. 25/C738d/100	each 1/6
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CHAIN WHEELS AND CRANKS



"B.B.L." British Make Best Quality Double Flanged Fixed Pattern Chain Wheel with Heavy Toughened Cranks, specially suitable for Carrier Cycles.

All Black. $\frac{1}{2}$ " pitch x $\frac{1}{8}$ " wide.

With Gear Case Clearance.

No. 25/C1014c/403	44 T. x 6 $\frac{1}{2}$ " cranks	6/3
25/C1014g/403	48 T. x 7"	6/3

Branches:
Aberdeen, Acton, Belfast
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Croydon, Glasgow, Dundee
Exeter, London, Edinburgh
Liverpool, Manchester

"B.B.L."

BRITISH MAKE. 5-Screw Fixing.

"Joggled." $\frac{1}{2}$ " pitch x $\frac{1}{4}$ " wide.

Square Cranks, Complete with Cotter

6 $\frac{1}{2}$ " supplied for 44 T.6 $\frac{1}{2}$ " or 7" supplied for 48 T. or 52 T.

Chromium Plated.

Without Gear Case Clearance.

No. 25/C1000e/309	44 T.	per set 5/6
25/C1000g/309	48 T.	.. .. 5/6

With Gear Case Clearance.

No. 25/C1001e/309	44 T.	per set 5/6
25/C1001g/309	48 T.	.. .. 5/6

Nickel Plated.

Without Gear Case Clearance.

No. 25/C1005e/304	44 T.	per set 5/-
25/C1005g/304	48 T.	.. .. 5/-
25/C1005k/305	52 T.	.. .. 5/-

With Gear Case Clearance.

No. 25/C1006e/304	44 T.	per set 5/-
25/C1006g/304	48 T.	.. .. 5/-
25/C1006k/305	52 T.	.. .. 5/-

7" Oval Cranks

Without Gear Case Clearance.

No. 25/C1008g/303	48 T.	per set 4/10
Allowance for Left-hand Crank if not required.		
1/5	.. ..	less per set -/7



"B.B.L." British Make

"Joggled." 3-arm design. Fixed Pattern Chain Wheel and Cranks, complete with Cotter.

$\frac{1}{2}$ " pitch x $\frac{1}{4}$ " wide. 7" Oval Cranks, Nickel Plated.

Without Gear Case Clearance.

No. 25/C1036L/302	48 T.
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All Black. $\frac{1}{2}$ " pitch x $\frac{1}{8}$ " wide with square Extra Heavy Toughened Cranks, specially suitable for Carrier Cycles.

With Gear Case Clearance.

No. 25/C1037c/400	44 T.	per set ..
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CHAIN WHEELS AND CRANKS—continued



"B.B.L." British Make. Fixed Pattern.

"Joggled." $\frac{1}{2}$ " pitch \times $\frac{1}{2}$ " wide.

Complete with Cotters.

Square Cranks.

Chromium Plated.

Without Gear Case Clearance.

No. 25/C1025k/304 48 T. \times $6\frac{1}{2}$ " \times $1\frac{1}{4}$ " set 5/-

With Gear Case Clearance.

No. 25/C1026e/305 44 T. \times $6\frac{1}{2}$ " per set 5/-
25/C1026L/305 48 T. \times 7" 5/-

Nickel Plated.

Without Gear Case Clearance.

No. 25/C1030k/301 48 T. \times $6\frac{1}{2}$ " per set 4/6
25/C1030L/301 48 T. \times 7" 4/6
25/C1030r/301 52 T. \times 7" 4/6

With Gear Case Clearance.

No. 25/C1031e/301 44 T. \times $6\frac{1}{2}$ " per set 4/6
25/C1031L/301 48 T. \times 7" 4/6

Juvenile. 36 T. \times $5\frac{1}{2}$ ". Oval Cranks.

Chromium Plated.

No. 25/C1033k/305 per set 5/-



"B.B.L." British Make. Fixed Pattern.

Juvenile Chain Wheel and Oval Cranks.

Chromium Plated.

$\frac{1}{2}$ " pitch \times $\frac{1}{2}$ " wide. To suit $\frac{1}{2}$ " Pedals.

Complete with Cotters.

Without Gear Case Clearance. 4" Cranks for $\frac{1}{2}$ " Axle and $\frac{1}{2}$ " Cotters.

For Faircycles.

No. 25/C1039a/206 26 T. .. per set 3/9

4" Cranks for $\frac{1}{2}$ " Axle and $\frac{1}{2}$ " Cotters.

No. 25/C1040a/206 28 T. .. per set 3/9

4 $\frac{1}{2}$ " Cranks for $\frac{1}{2}$ " Axle and $\frac{1}{2}$ " Cotters.

No. 25/C1040b/206 26 T. .. per set 3/9

25/C1040f/209 32 T. 4/-

25/C1040k/306 36 T. 5/-

With Gear Case Clearance.

No. 25/C1041f/209 32 T. .. per set 3/9

25/C1041L/306 36 T. 5/-

/8 Allowance for Left-hand

Crank if not required. less -/7

Specially made for use on "POLO"

Cycles.

$\frac{1}{2}$ " pitch \times $\frac{1}{2}$ " wide nickel-plated complete with

$\frac{1}{2}$ " cotters. Without Gear Case Clearance.

5 $\frac{1}{2}$ " Cranks for $\frac{1}{2}$ " Axles.

No. 25/C1043b/305 22 T. .. per set 5/-

25/C1043e/306 28 T. 5/-



"WISSNER"

LIGHT ALLOY DOUBLE FLANGED CHAIN WHEEL AND CRANKS

5-screw Fixing.

6 $\frac{1}{2}$ " Cranks, with outside Single Flute complete with Cotters, $\frac{1}{2}$ " pitch, $\frac{1}{2}$ " wide.

(Foreign.)

No. 25/C1150c/1609 46 T. per set 22/6

25/C1150d/1609 47 T. 22/6

25/C1150e/1609 48 T. 22/6



"B.S.A." FLANGED CHAIN WHEEL AND CRANKS

5-screw Fixing.

"B.S.A."

6 $\frac{1}{2}$ " or 7" Cranks. Complete with Cotters.

Without Gear Case Clearance.

Double Flanged.

Chromium Plated.

No. $\frac{1}{2}$ " pitch \times $\frac{1}{2}$ " wide. per set

25/C1074c/1400 42, 44 T. .. 18/9

25/C1074g/1400 46, 48 T. .. 18/9

25/C1074k/1400 52 T. 19/3

No. 1" pitch \times $\frac{1}{2}$ " or $\frac{3}{4}$ " wide. per set

25/C1074L/1400 21, 22 T. .. 18/9

25/C1074m/1400 23, 24 T. .. 18/9

"B.S.A."

Double Flanged. Without Inside Flange.

Complete with Cotters.

With 6 $\frac{1}{2}$ ", 6 $\frac{1}{2}$ " or 7" Cranks.

Without Gear Case Clearance.

Chromium Plated.

No. $\frac{1}{2}$ " pitch \times $\frac{1}{2}$ " wide. per set

25/C1076c/1400 42, 44 T. .. 18/9

25/C1076g/1400 46, 48 T. .. 18/9

25/C1076k/1400 52 T. 18/9

No. 1" pitch \times $\frac{1}{2}$ " or $\frac{3}{4}$ " wide. per set

25/C1076L/1400 21, 22 T. .. 18/9

25/C1076m/1400 23, 24 T. .. 18/9

6 $\frac{1}{2}$ " or 6 $\frac{1}{2}$ " Double Fluted Cranks.

Without Gear Case Clearance.

/108 Chromium Plated extra per set 2/3

"B.B.L." DIRECT DRIVE TANDEM SETS OF CHAIN WHEELS AND CRANKS

6 $\frac{1}{2}$ " Cranks, complete with Cotters for Brampton Fittings.

Chromium Plated $\frac{1}{2}$ " pitch \times $\frac{1}{2}$ " wide.

Front, 42 T. Rear, 42 T. and 46 T.

No. 25/C1050e/1408 .. per set 21/6

Front, 42 T. Rear, 42 T. and 48 T.

No. 25/C1050g/1408 .. per set 21/6

Branches:
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CHAIN WHEELS AND CRANKS—continued



"CHATER LEA" FLANGED CHAIN WHEEL & CRANKS.

3-Arm Pattern.

6½" Double Flated Cranks.

Complete with Cotters.

Without Gear Case Clearance.

Plain Pattern, not Lettered
(as Illustrated.)

Chromium Plated.

No.	½" pitch × ½" wide.	per set
25/C1092c/1705	36, 38, 40, 42, 44 T.	23/2
25/C1092g/1711	46, 48 T. ..	23/10
25/C1092h/1802	50 T. ..	24/2
25/C1092k/1805	52 T. ..	24/6
25/C1092m/1811	56 T. ..	25/2
/9	Extra for 6½" and 7" Cranks	1/-

With "C.L." Regd. Design Wheel.
(Not Illustrated.)

Nickel Plated.

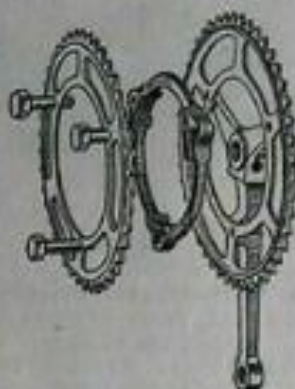
No.	½" pitch × ½" wide.	per set
25/C1100c/1406	42 T. ..	19/4
25/C1100c/1409	44 T. ..	19/8
25/C1100g/1500	46 T. ..	20/-
25/C1100g/1503	48 T. ..	20/4
/9	Extra for 6½" or 7" Cranks	1/-

Chromium Plated.

No.	1" pitch × ½" or ⅝" wide.	per set
25/C1105c/1705	21, 22 T. ..	23/2
25/C1105g/1711	23, 24 T. ..	23/10
25/C1105m/1805	25, 26 T. ..	24/6
/9	Extra for 6½" or 7" Cranks	1/-

Chromium Plated.

No.	½" pitch × ½" wide.	per set
25/C1106c/1702	42 T. ..	22/10
25/C1106c/1705	44 T. ..	23/2
25/C1106g/1707	46 T. ..	23/6
25/C1106g/1711	48 T. ..	23/10
/9	Extra for 6½" or 7" Cranks	1/-



"CHATER LEA"

TANDEM SETS CHAIN WHEEL
(C.L. DESIGN) AND CRANKS

Complete with Cotters.

For No. 14a, 42, 90 and 92 Tandem Fittings.
Front, up to 44 teeth; rear, up to 44, 46 and
48 teeth.

Chromium Plated.

No.	½" pitch × ½" wide.	per set
25/C1118g/4204	With 6½" Cranks	56/5

Front, up to 44 teeth; rear, up to 44 and
52 teeth.

Chromium Plated.

No.	½" pitch × ½" wide.	per set
25/C1119g/4209	With 6½" Cranks	57/1

Other sizes can be supplied to order at prices
according to sizes required.

An extra charge will be made on above sets
if supplied with plain wheels in lieu of C.L.
Design.



"WILLIAMS UTILITY"
CHAIN WHEEL AND CRANKS

5-Screw Fixing.

Complete with Cotters.

½" Pitch × ½" Wide.

Chromium Plated.

44 and 48 Teeth. 6½" or 7" Cranks.	Joggled. Without Gear Case Clearance.
No. 25/C1126a/309	.. per set 5/4
25/C1126a/4400	.. doz. sets ..

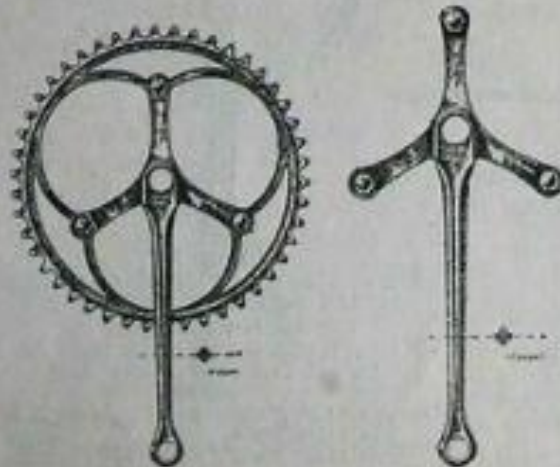
44 and 48 Teeth. 6½" or 7" Cranks.	Joggled. With Gear Case Clearance.
No. 25/C1126c/309	.. per set 5/4
25/C1126c/4400	.. doz. sets ..

Nickel Plated.

44, 48, 52 Teeth. 6½" or 7" Cranks.	Joggled. Without Gear Case Clearance.
No. 25/C1126k/304	.. per set 5/4
25/C1126k/3900	.. doz. sets ..

Joggled. With Gear Case Clearance.	
No. 25/C1127k/304	.. per set 5/4
25/C1127k/3900	.. doz. sets ..

"DURAX"
LIGHTWEIGHT DOUBLE FLANGED CHAIN WHEELS AND CRANKS



(Foreign).

Complete with Cotters.

Extensively used by the
International Racing Cyclists.

3 arm Pattern.

Nickel chrome steel

with 4 flutes.

Weight per set, 24 oz.

46 T × ½" × ½" × 6½"

No. 25/C1148c/1700

48 T × ½" × ½" × 6½"

No. 25/C1148e/1700

Nickel steel

with grooved cranks.

Weight per set, 29 oz.

46 T × ½" × ½" × 6½"

No. 25/C1149c/1702

48 T × ½" × ½" × 6½"

No. 25/C1149e/1702

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CHAIN WHEELS AND CRANKS—continued

Direct Drive.



"WILLIAMS" D34 DIRECT-DRIVE TANDEM SETS OF CHAIN WHEELS AND CRANKS.

Chromium Plated.
6½" Cranks. Complete with Cotters.
For Brampton Tandem Fittings.

½" pitch × ½" wide.

- Front, 42 T.; Rear, 42 & 44 T.
No. 25/C1180b/2200 set 33/-
Front, 42 T.; Rear, 42 & 46 T.
No. 25/C1180e/2200 set 33/-
Front, 42 T.; Rear, 42 & 48 T.
No. 25/C1180h/2200 set 33/-
Front, 42 T.; Rear, 42 & 52 T.
No. 25/C1180m/2200 set 33/-

We can obtain to special order in a few days
sizes 44, 44 & 46; 44, 44 & 48; 44, 44 & 52 T.

CHAIN WHEELS, with 5 Screws fitted.
"B.B.L." JOGGLED, BRITISH MADE.

Nickel Plated. ½" × ½".

- No. 25/C1200e/106 44 T. .. each 2/3
25/C1200g/106 48 T. 2/3
25/C1200k/108 52 T. 2/6

Chromium Plated. ½" × ½".

- No. 25/C1201e/109 44 T. .. each 2/6
25/C1201g/109 48 T. 2/6
25/C1201k/111 52 T. 2/9

"B.S.A."

Double Flanged.

Chromium Plated.

- No. ½" pitch × ½" wide.
25/C1207g/402 42, 44, 46, 48 T. each 5/6
25/C1207k/407 52 T. 6/1
No. 1" pitch × ½" or ¾" wide.
25/C1207m/402 21, 22, 23, 24 T. each 5/6

Without Inside Flange.

- No. ½" pitch × ½" wide.
25/C1211g/402 42, 44, 46, 48 T. each 5/6
25/C1211k/407 52 T. 6/1
No. 1" pitch × ½" or ¾" wide.
25/C1211m/402 21, 22, 23, 24 T. each 5/6



WILLIAMS SD31 SEMI-DETACHABLE TANDEM SETS OF CHAIN WHEELS AND CRANKS.

6½" Cranks. Complete with Cotters.
For Brampton Tandem Fittings.
Chromium Plated.

- No. Front, 42 T.; Rear, 42 & 48 T. × ½" × ½"
25/C1181h/1509 set 23/9



WILLIAMS DIRECT DRIVE TANDEM SETS OF CHAIN WHEELS AND CRANKS.

6½" Cranks, 3-arm pattern. Complete with
Cotter. For Brampton or Sun Tandem
Fittings.

- Chromium Plated. ½" pitch × ½" wide.
Front, 32 T.; Rear, 52 T and 43 T.
No. 25/C1182h/1406 set 21/6

CHAIN WHEELS

(With 5 Screws Fitted)

"WILLIAMS" B100.
DOUBLE FLANGED.

Chromium Plated. ½" × ½".

- No. 25/C1240a/201 40, 42, 44 T. each 3/3
25/C1240a/203 46, 48 T. .. 3/6
25/C1240b/206 50, 52 T. .. 3/10

Nickel Plated. ½" × ½".

- No. 25/C1240g/110 36, 44 T. each 2/6
25/C1240g/200 46, 48 T. .. 2/9
25/C1240k/203 52 T. 3/3

Nickel Plated. ½" × ¾".

- No. 25/C1241g/110 36, 42, 44 T. each 2/6
25/C1241g/200 46, 48 T. .. 2/9
25/C1241k/203 52 T. 3/3

Chromium Plated.

- 20, 21, 22, 23, 24 T. × 1" pitch × ½" wide.
No. 25/C1242d/203 each 3/3
21, 22, 23, 24 T. × 1" pitch × ¾" wide.

- No. 25/C1242g/203 each 3/3

All Black. ½" × ½" wide.

- No. 25/C1245a/111 44 T. .. each 2/9
25/C1245a/201 46, 48 T. .. 3/-

"WILLIAMS" D34 DIRECT-DRIVE TANDEM CHAIN WHEELS ONLY.
3-Arm Pattern.

Chromium Plated. ½" pitch × ½" wide.

Front Chain Wheels only.

No. 25/C1368b/209 42 T. .. each 4/-

Inside Drum Chain Wheels only.

No. 25/C1369b/606 42 T. .. each 8/9

Outside Chain Wheels only.

No. 25/C1369m/500 44 T. .. each 6/9

25/C1369n/500 46 T. 6/9

25/C1369p/300 48 T. 6/9

25/C1369r/500 52 T. 6/9

42 T. and 44 T. combined.

No. 25/C1370b/1106 each 15/6

42 T. and 46 T. combined.

No. 25/C1370c/1106 each 15/6

42 T. and 48 T. combined.

No. 25/C1370h/1106 each 15/6

42 T. and 52 T. combined.

No. 25/C1370m/1106 each 15/6

"WILLIAMS" B109 DUREL.

With Narrow Inside Flange.

Chromium Plated. ½" × ½".

No. 25/C1248a/1100 44 T. .. each 16/-

25/C1248a/1100 46 T. 16/-

25/C1248a/1100 48 T. 16/-

"WILLIAMS" B100.

Without Inside Flange.

Chromium Plated. ½" × ½".

No. 25/C1249g/203 40, 42, 44 T. each 3/6

25/C1249g/205 46, 48 T. .. 3/9

25/C1249k/209 50, 52 T. .. 4/-

"WILLIAMS" UTILITY.

Joggled. ½" × ½".

Nickel Plated.

No. 25/C1255f/107 44 T. .. each 2/4

25/C1255k/107 48 T. 2/4

25/C1255m/109 52 T. 2/6

Chromium Plated.

No. 25/C1256f/110 44 T. .. each 2/8

25/C1256k/110 48 T. 2/8

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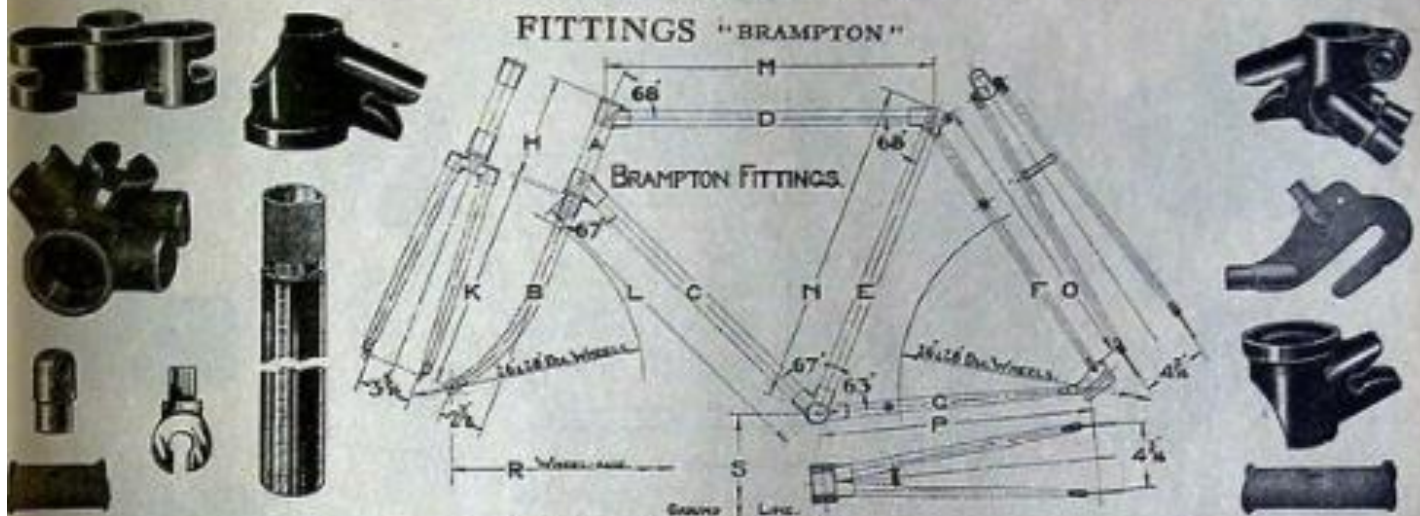
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FITTINGS "BRAMPTON"



EXPANDER HEAD, COTTERLESS LOW BRACKET MODEL FOR VARIOUS FRAME SIZES
Malleable Cast Lugs. For 1 1/2" Tubes and 1" Parallel Top. Straight Round Tapered Chain Stays.

Comprising:

Crowns, 906° D, 1 1/4", Head Stem, 5 1/4" to 8 1/4"
Top Lugs, 1 1/4" x 1" x 68°.
Bottom Lugs, 1 1/4" x 1 1/4" x 68°.
Seat Lugs, 1 1/4" x 1" x 65°.
Stay Eyes, 1/2" Rd.

Fork Ends Plain, with Eyes.
Front Fork Ends, Lock Nuts, 1/2".
Lamp Brackets, 1/2".
Bracket Shells, 1 1/4" x 1 1/4" x 1/2" x 1 1/4" C.L.
68° and 59 1/2°.
Chain Stay Struts, Seat Stay Struts.

Seat Bolts and Nuts.
Ball Races, black (2). Crown Races.
Flanged and Adjusting Bracket Cups.
Lock Rings. Bracket Lubricators.
Screwed Ball Races, 1/2".
Bracket Axles, 1 1/4" C.L.

GENT.'S SETS COMPLETE. With Chromium Plated Completion Parts.

With Plain Lugs.

No. 25/F85b/903 per set 12/6

With Cut-away and Fish-tailed Lugs and Milled Crown.

No. 25/F85c/910 per set 13/3

GENT.'S SET COMPLETE. With Upright Frame Lugs.

As Gent.'s set above, but with the following variations:

Top Lug 1 1/4" x 1" x 70°. Bottom Lug 1 1/4" x 1 1/4" x 63°. Seat Lug 1 1/4" x 1" x 70°.
Bracket Shell 1 1/4" x 1 1/4", 10 1/2" high x 63° and 61 1/2°.

Complete Sets.

With Chromium Plated Completion Parts.
With Cut-away and Fish-tailed Lugs and Milled Crown.

For 1/2" Chain Stays.

No. 25/F85f/1000 per set 13/6

For 3/4" Chain Stays.

No. 25/F85h/1000 per set 13/6

Set of 4 Upright Frame Lugs only.

Comprising Top and Bottom Lug, Seat Lug, Bracket Shell as above
Cut-away and Fish-tailed.

For 1/2" Chain Stays.

No. 25/F86i/310 per set 5/3

For 3/4" Chain Stays.

No. 25/F86h/310 per set 5/3

LADY'S SPORTS MODEL SET

For Parallel Down Tube Frame Set.

Top Head Lug, 1 1/4" x 1" x 113°.
Bottom Head Lug, 1 1/4" x 1 1/4" x 67°.
Seat Tube Frame Lug, 1 1/4" x 1" x 67°.
Bracket Shell, 1 1/4" x 1 1/4" x 1" x 1 1/4" C.L.
67° x 63°.
Seat Lug 1 1/4".

Complete Sets.

With Chromium Plated Completion Parts.
With Plain Lugs.

No. 25/F85m/1000 per set 13/6

With Cut-away and Fish-tailed Lugs and Milled Crown.

No. 25/F85p/1007 per set 14/3

For Non-Parallel Down Tube Frame Set.

Top Head Lug, 1 1/4" x 1" x 107°.
Bottom Head Lug, 1 1/4" x 1 1/4" x 65°.
Seat Tube Frame Lug, 1 1/4" x 1" x 75°.
Bracket Shell, 1 1/4" x 1 1/4" x 1" x 1 1/4" C.L.
67° x 55 1/2°.
Seat Lug 1 1/4".

Complete Sets.

With Chromium Plated Completion Parts.
With Plain Lugs.

No. 25/F85r/1000 per set 13/6

With Cut-away and Fish-tailed Lugs and Milled Crown.

No. 25/F85s/1007 per set 14/3



BRAMPTON "HAWK" SPORTS ROAD RACER SET OF LUGS
For Upright Frame Low Bracket Model.

Special Cut-away Malleable Cast Lugs, as illustrated. For 1 1/4" Tubes and 1" Parallel Top.

Comprising:

Crown, D.
Top Lug, 1 1/4" x 1" x 73°.
Bottom Lug, 1 1/4" x 1 1/4" x 60°.
Seat Lug, 1 1/4" x 1" x 73°.
No. 25/F84c/1006

Stay Eyes, 1/2" Rd.
Fork Ends Plain, with Eyes. Front Fork Ends.
Bracket Shells, 1 1/4" x 1 1/4" x 1/2" x 1 1/4" C.L. 60° and 40°.
Chain Stay Strut. Seat Stay Strut.

per set 14/-

Sets of 7 parts as illustrated.

Comprising: Top Lug, Bottom Lug, Crown, Bracket Shell, Seat Lug and Eyes.

No. 25/F84d/711 10/6

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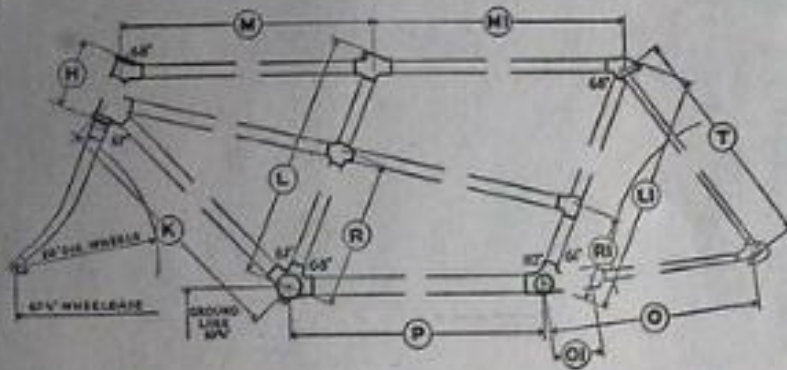
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Sheffield, York

FITTINGS—continued

("BRAMPTON'S" TANDEM SETS)



"BRAMPTON'S" TANDEM FITTINGS FOR CENTRAL STAY OR SINGLE CROSS TUBES

Head Clip Model with Drop-out Fork Ends and Cotterless Bracket. Chromium Plated.

Comprising the following parts:

- Steering Stem Crown
- Top Head Lug
- Bottom Head Lug
- Front Seat Lug
- Rear " " Cons
- Front Bracket Shell
- Rear " " "

- Chain Stay Bridge Seat
- Rear Fork Ends
- Lamp Bracket
- Bottom Head Race Cup
- " " " Cons
- Bracket Flange Caps
- Adjusting Caps

- Bracket Lock Ring
- Front Bracket Axle
- Rear " " "
- Split Cotter Bolts
- Front Fork Ends
- Front Cross Lug
- Back " T " Lug
- Eccentric Bracket Sleeve

- Mudguard Stud Bolt and Washers
- Seat Lug Bolt and Nut
- Head Lock Nuts
- Head Clip
- Ball Races
- Top Eyes
- Bottom Eyes
- Seat and Handlebar Clip

- Set of 48 (only 1/2) nuts for Head
- Set of 36 (only 1/4) nuts for 2 Brackets
- Set of 4 Lubricators
- Rear Wing Nuts
- Front " " "
- Front & Rear Conical Chain Wheel & Chain

TWO GENT'S SET. Complete
1 1/2" C.L., 67 1/2" Wheel Base, 10 1/2" Bracket, for 1 1/2" Central Bottom Tube.
With Plain Lugs.

No. 25/F97b/5503 per set 77/9

With Cut-away and Fish-tailed Lugs and Milled Crown.
No. 25/F97c/5703 per set 80/6

1 1/2" C.L., 63 1/2" to 64 1/2" Wheel Base, 10 1/2" to 10 1/2" Bracket, for 1 1/2" Central Bottom Tube.
With Plain Lugs.

No. 25/F97h/5503 per set 77/9

With Cut-away and Fish-tailed Lugs and Milled Crown.
No. 25/F97k/5703 per set 80/6

GENT. FRONT AND LADY BACK SET. Complete
1 1/2" C.L., 67 1/2" Wheel Base, 10 1/2" Bracket, for 1 1/2" Central Bottom Tube.

For 22" Lady's Back. As Two Gent's set above, but with the following variations: Lady's Front Seat Lug, Lady's Loop Lug, Lady's Rear Seat Lug, Lady's Rear Cross Lug.
With Plain Lugs.

No. 25/F97m/6000 per set 80/-

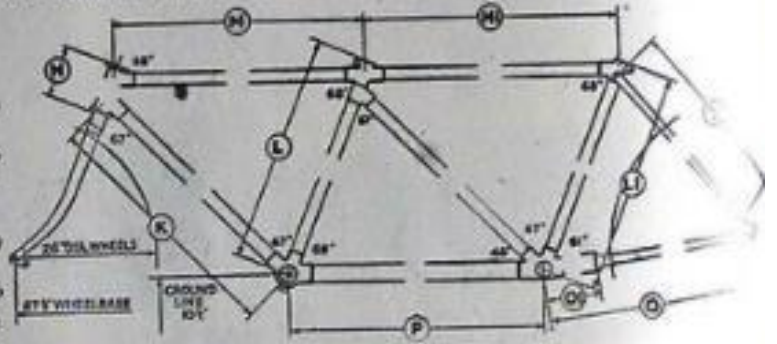
With Cut-away and Fish-tailed Lugs and Milled Crown.
No. 25/F97n/6203 per set 83/-

GENT. FRONT AND LADY BACK SET. Complete

For 20" or 21" Lady's Back. As Two Gent's set above, but with the following variations: Lady's Front Seat Lug, Lady's Loop Lug, Two Rear Cross Lugs, Lady's Rear Seat Lug, Special Rear Bracket Shell, for 1 1/2" Central Bottom Tube.
With Plain Lugs.

No. 25/F97s/5600 per set 75/9

With Cut-away and Fish-tailed Lugs, and Milled Crown.
No. 25/F97t/5800 per set 81/9



DOUBLE DIAMOND TWO GENT'S SET. Complete

As Two Gent's set above, but with the following variations: Bottom Head Lug, Top Diamond Frame Lug, Rear Bracket Shell, for 1 1/2" C.L., 67 1/2" Wheel Base, 10 1/2" Bracket, for 1 1/2" Central Bottom Tube.
With Plain Lugs.

No. 25/F98b/5503 per set 77/9

With Cut-away and Fish-tailed Lugs and Milled Crown.
No. 25/F98e/5703 per set 80/6

1 1/2" C.L., 63 1/2" to 64 1/2" Wheel Base, 10 1/2" to 10 1/2" Bracket, for 1 1/2" Central Bottom Tube.
With Plain Lugs.

No. 25/F98h/5503 per set 77/9

With Cut-away and Fish-tailed Lugs and Milled Crown.
No. 25/F98k/5703 per set 80/6

FITTINGS (CHATER LEA)—continued



"CHATER LEA" FITTINGS. Comprising:

Head with Clip or Expander ($\frac{1}{2}$ " balls), Bracket, Gent's or Ladies', up to 46 teeth Chain Wheel (C.L. Design), and 6 $\frac{1}{2}$ " Double Fluted Cranks, Rigid Seat Lug, and Stay Eyes, and Rear Fork Ends (No. 4a, 5a, or 6), Front Fork Ends, Bridge Pieces (Less Hubs and Pedals). Tube Lug included with Lady's Set.

GENT'S "RIGID" ROAD RACER SETS (PARALLEL TOP)

No.	Top Lug	Seat Lug	Bottom Lug	Height of Bracket	Wheel Base	No.	Top Lug	Seat Lug	Bottom Lug	Height of Bracket	Wheel Base
No. 3	1 $\frac{1}{2}$ " x 1" x 68"	1 $\frac{1}{2}$ " x 1" x 68"	1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " x 64 $\frac{1}{2}$ "	10 $\frac{1}{2}$ " x 64 $\frac{1}{2}$ " & 60"	42"	No. 5	1 $\frac{1}{2}$ " x 1" x 66"	1 $\frac{1}{2}$ " x 1" x 66"	1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " x 66"	10 $\frac{1}{2}$ " x 66" & 60"	43 $\frac{1}{2}$ "
No. 3 Set.	Chromium Plated.					No. 6	1 $\frac{1}{2}$ " x 1" x 73"	1 $\frac{1}{2}$ " x 1" x 73"	1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " x 61 $\frac{1}{2}$ "	10 $\frac{1}{2}$ " x 61 $\frac{1}{2}$ " & 65"	43 $\frac{1}{2}$ "

No.	Head Clip Model	Per set
25/F105b/3703	Head Clip Model	49/8
25/F105d/3408	Expander Model	46/2
No. 5 Set. Chromium Plated.		
25/F106b/3703	Head Clip Model	49/8
25/F106d/3408	Expander Model	46/2

No.	Head Clip Model	Per set
25/F102b/3703	Head Clip Model	49/8
25/F102d/3408	Expander Model	46/2

No.	Head Clip Model	Per set
25/F102m/3703	Head Clip Model	49/8
25/F102r/3408	Expander Model	46/2

The Wheel Base of No. 5 Set can be reduced to 42 $\frac{1}{2}$ " by substituting Chain Struts 16 $\frac{1}{2}$ " long, and by a further 1 $\frac{1}{2}$ " to 41 $\frac{1}{2}$ " by using a semi-straight fork 1 $\frac{1}{2}$ " rake.

All above Fork Ends for Cycle are supplied with Bottom Seat Stay Ends to fit $\frac{1}{2}$ " inside diameter Seat Stay Tubes.

LADIES' "RIGID" ROAD RACER SETS

No.	Top Lug	Seat Lug	Bottom Lug	Height of Bracket	Wheel Base	No.	Top Lug	Seat Lug	Bottom Lug	Height of Bracket	Wheel Base
No. 5L	1 $\frac{1}{2}$ " x 1" x 68 $\frac{1}{2}$ "	1 $\frac{1}{2}$ " x 1" x 68 $\frac{1}{2}$ "	1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " x 66"	10 $\frac{1}{2}$ " x 66" & 60"	43 $\frac{1}{2}$ "	No. 6L	1 $\frac{1}{2}$ " x 1" x 68 $\frac{1}{2}$ "	1 $\frac{1}{2}$ " x 1" x 68 $\frac{1}{2}$ "	1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " x 61 $\frac{1}{2}$ "	10 $\frac{1}{2}$ " x 61 $\frac{1}{2}$ " x 65"	43 $\frac{1}{2}$ "

STANDARD FRAME With No. 5L Frame Lugs.

No.	Head Clip Model	Per set
25/F109b/3700	Head Clip Model	50/3
25/F109d/3501	Expander Model	46/9

EXTRAS are not included in prices of "Chater Lea" Fittings.

"G.L." REGD. DESIGN OR PLAIN 3-ARM CHAIN WHEELS

Nickel or Chromium Plated.	each
3 48 teeth x $\frac{1}{2}$ "	.. -/4
8 50 teeth x $\frac{1}{2}$ ", or 23, 24 teeth x 1"	.. -/8
9 52 .. x $\frac{1}{2}$ ", or 25, 26 .. x 1"	1/-
103 56 .. x $\frac{1}{2}$ ", or 27 teeth x 1"	.. 1/8
10 Cranks, 6 $\frac{1}{2}$ " or 7" long	per pair 1/-
8 Heads fitted with $\frac{1}{8}$ " balls	each -/8

If fittings are required with cut-away Lugs, or Polished and Blued, they can be supplied at an extra charge.
 /8 Extra for cut-away fish-tailed Lugs for Gent's or Ladies' .. per set 1/-
 Extra for Head and Seat Lugs Polished and Blued.
 /100 For Gent's .. per set 1/4
 /102 .. Ladies' 1/7

UPRIGHT FRAME

Set No. 6t. with $\frac{1}{2}$ " Chain Stay Bracket.

No.	Head Clip Model	Per set
25/F107b/3708	Head Clip Model	50/3
25/F107d/3501	Expander Model	46/9

Set No. 6L with $\frac{1}{2}$ " Chain Stay Bracket.

No.	Head Clip Model	Per set
25/F107m/3708	Head Clip Model	50/3
25/F107r/3501	Expander Model	46/9

CONTINENTAL LIGHTWEIGHT ROAD OR PATH RACE FITTINGS FOR GENT'S UPRIGHT FRAME (Foreign.)

Extra light malleable castings carefully and evenly machined cut away and fish-tailed parts to a very fine degree.

For 1 $\frac{1}{2}$ " Tubes and 1" Parallel Top. With Chromium-plated parts.

- Comprising:
 Bracket Shell, 1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " x 1" x 1 $\frac{1}{2}$ " C.L. 60° and 63°.
 Rear Fork Ends, Dropped Forged. $\frac{1}{2}$ " Chain and $\frac{1}{2}$ " Seat.
 Hexagon Head Lock Nuts, 1" x 24 T.
 Front Fork Ends, Dropped Forged, $\frac{1}{2}$ " O.D.

- Serrated Head Adjusting Washer.
 Top Ball Race Seating.
 Bottom Ball Race Seating.
 Crown Ball Race.
 Screwed Expander Race, serrated.

Complete Sets with Oval Front Forks, Chain and Seat Stays Ribbed for Strength and Design. Complete Sets less Forks, Chain and Seat Stays.

No.	Per set	No.	Per set
No. 25/F150c/2106	.. per set 29/-	No. 25/F150l/2506	.. per set 21/-
With English type Head Lugs shouldered for Ball Races for Head Clip and Lock Nut $\frac{1}{2}$ " x 30 T.	.. per set 29/-	No. 25/F150n/2506	.. per set 21/-

These fittings are made by one of the finest Continental makers and are used by most of the well-known Continental riders.

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FITTINGS—continued

"SUN" LIGHTWEIGHT ROAD OR PATH RACE FITTINGS FOR GENT.'S UPRIGHT FRAME.

With Plain lugs.

For 1 1/4" Tubes and 1" Parallel Top.

Comprising:

- | | |
|---|------------------------------------|
| Crown "D," 1 1/4" | Seat Bolt and Nut |
| Top Lug, 1 1/4" x 1" x 73° | Ball Races, Black (2) |
| Bottom Lug, 1 1/4" x 1 1/4" x 61° | Crown Race |
| Seat Lug, 1 1/4" x 1" x 73° | Flanged and Adjusting Bracket |
| Stay Eyes, 3/8" Rd. | Cups |
| Bracket Shell, 1 1/4" x 1 1/4" x 1" x 1 1/2" C.L. 61° and 65° | Bracket Lubricators |
| Chain and Seat Stay Tubular Struts | Bracket Lock Rings |
| Rear Fork Ends, Plain | Head Clip, with Tecalet Lubricator |
| Head Lock Nuts, 1" x 24 Thread | Bracket Axle, 1 1/4" C.L. |
| Front Fork Ends | Chain Stay Eyes, 3/8" |
| Lamp Bracket with Brazed on Serrated Lug and Set Screw | Bottom Seat Stay Eyes, 3/8" |
| Head Clip Spacing Washer | Pair Pump Pegs |
| | Two Pair Mudguard Stay Eyes |
| | Chain Hook |
| | Reflector Eye |

Complete sets with Chromium Plated and Black Completion Parts as above.

- | | | | | | |
|-------------------|----------------------------|----|----|---------|------|
| No. 25/F200a/1006 | Bottom Lug for 1/2" Balls. | .. | .. | per set | 15/9 |
| No. 25/F200b/1006 | Bottom Lug for 3/8" Balls. | .. | .. | per set | 15/9 |

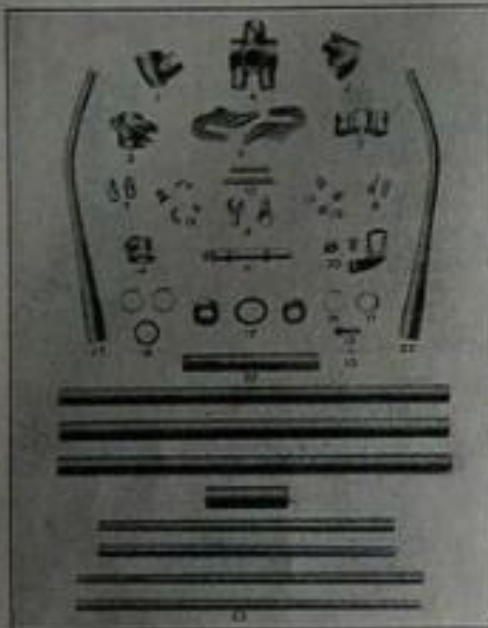
As above, complete with "A.P." Chrome Molybdenum 22g Plain Frame Tubes, Head Tube, Screwed Head Stem, Curved Taper Forks 18/21g, 1" Straight Tapered Chain and Seat Stays.

- | | | | | | |
|-------------------|----------------------------|----|----|---------|------|
| No. 25/F201a/2409 | Bottom Lug for 1/2" Balls. | .. | .. | per set | 35/3 |
| No. 25/F201b/2409 | Bottom Lug for 3/8" Balls. | .. | .. | per set | 35/3 |

As above, complete with "Reynolds" "H.M." Batted Frame Tubes, Head Tube, Screwed Head Stem, Curved Taper Forks 18/20g, 1" Straight Tapered Chain, and Seat Stays.

- | | | | | | |
|-------------------|----------------------------|----|----|---------|------|
| No. 25/F201L/2503 | Bottom Lug for 1/2" Balls. | .. | .. | per set | 37/9 |
| No. 25/F201M/2503 | Bottom Lug for 3/8" Balls. | .. | .. | per set | 37/9 |

Extra for Cut-away and Fish-tailed lugs.
/10 Extra per set 1/4



SEE PAGE 150 FOR SUN PATENT TANDEM FOOT OPERATED HEEL BRAKE LEVER.

"SUN" GENT.'S UPRIGHT FRAME LUGS

In sets of 4 comprising:

- | | |
|---|--|
| Top Head Lug, 1 1/4" x 1" x 73°. | Bracket Shell, 1 1/4" x 1 1/4" x 1" x 1 1/2" C.L. 61° and 65°. |
| Bottom Head Lug, 1 1/4" x 1 1/4" x 61°. | Seat Lug only, 1 1/4" x 1" x 73° with 3/8" Spigots. |

Plain.

No. 25/F203a/209 For 1/2" Ball Races per set 4/-

Plain.

No. 25/F203b/209 For 1/2" and 3/8" Ball Races per set 4/-



SPECIAL DESIGN CUT-AWAY LUGS. (Continental Pattern).

In sets of 5 comprising:

- | | |
|--|--|
| Top Head Lug, 1 1/4" x 1" x 73°. | Seat Lug, 1 1/4" x 1" x 73° with 3/8" Spigots. |
| Bottom Head Lug, 1 1/4" x 1 1/4" x 61°. | Crown, Machined all over for D. |
| Bracket Shell, 1 1/4" x 1 1/4" x 1" x 1 1/2" C.L. 61° and 65°. | |

Design No. 1.

For 1/2" and 3/8" Ball Races.

No. 25/F203f/403 per set 6/-

Design No. 2.

For 1/2" and 3/8" Ball Races.

No. 25/F203h/403 per set 6/-

Design No. 3.

For 1/2" and 3/8" Ball Races.

No. 25/F203L/403 per set 6/-

Branches
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136 GEORGE STREET, EDINBURGH. 2

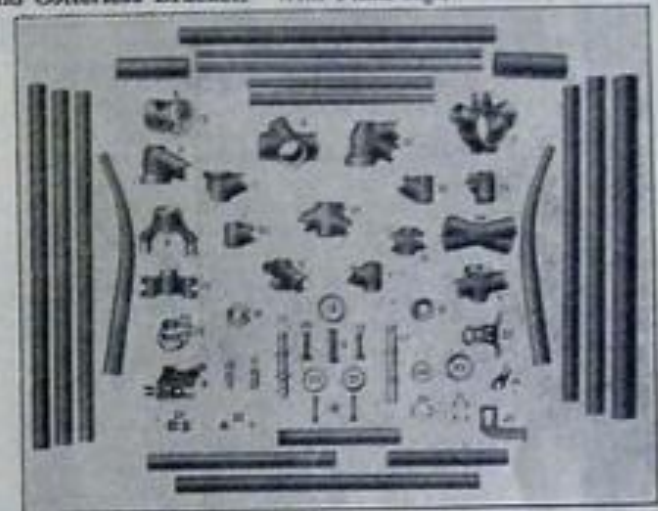
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FITTINGS ("SUN," "VINDEC")—continued

"SUN" TANDEM FITTINGS FOR CENTRAL STAY OR SINGLE CROSS TUBES.
Head Clip Model with Drop-out Fork Ends and Cotterless Bracket. With Plain lugs.

Comprising the following parts:

Crown	Bottom Head Race	Seat Lug Bolt and Nut
Top Head Lug	Cone	Head Lock Nuts
Bottom Head Lug	Bracket Flange Caps	Head Spacing Washer
Front Seat Lug	Bracket Adjusting Cups	Head Clip
Rear Seat Lug	Bracket Lock Ring	Ball Races
Front Bracket Shell	Front Bracket Axle	Top Eyes
Rear Bracket Shell	Rear Bracket Axle	Bottom Eyes
Chain Stay Bridge	Bracket Split Cotter Bolts	Pair Pump Pegs
Seat Stay Tubular Bridge	Front Fork Ends	Two Pair Mudguard Stay Eyes
Rear Fork Ends with Adjusters	Front Cross Lug	Set of 4 Lubricators (Treadmill pattern)
Fork Lamp Bracket	Back Cross Tube Lug	Chain Hook
Bottom Head Race	Eccentric Bracket Sleeve and Set Pin	Reflector Eye
Cop		



Complete Sets with Chromium Plated and Black Completion Parts.

FOR TWO GENT'S SET.

No. 25/F205a/3103 per set 46/9

FOR GENT, FRONT AND LADY BACK.

As Two Gent's Set above, but with the following variations:
Lady's Front Seat Lug, Lady's Loop Lug, Lady's Rear Seat Lug,
Lady's Rear Cross Lug.

No. 25/F205t/3206 per set 48/9

As above Two Gent's, with "Reynolds" complete set of all Frame Tubes, Head Tube, Screwed Head Stem, Round Tapered Chain and Rear Stays and Front Forks.

No. 25/F206a/4906 "A," Plain Round Tubes .. 72/-

25/F206b/5103 "A," Butted Round Tubes .. 76/9

25/F206c/6506 "H.M.," Plain and Butted Tubes 95/9

As above, Gent, Front and Lady Back, with "Reynolds" complete set of all Frame Tubes, etc.

No. 25/F207a/4909 "A," Plain Round Tubes .. 74/-

25/F207b/5209 "A," Butted Round Tubes .. 78/6

25/F207c/6609 "H.M.," Plain and Butted Tubes 100/-

FOR TWO GENT'S SET (only). DOUBLE DIAMOND.
As above, but with the following variations: Bottom Head Lug-
Top Diamond Frame Lug.

No. 25/F210a/3008 per set 46/-

As above, with "Reynolds" complete set of all Frame Tubes, Head Tube, Screwed Head Stem, Round Tapered Chain and Seat Stays and Front Forks.

No. 25/F211a/4703 "A," Plain Round Tubes .. 70/-

25/F211b/5003 "A," Butted Round Tubes .. 75/6

25/F211c/6403 "H.M.," Plain and Butted Tubes 86/9

Cut-away and Fish-tailed lugs can be supplied at an extra charge



"VINDEC" LIGHTWEIGHT ROAD OR PATH RACE FITTINGS. COTTERLESS LOW BRACKET MODEL.

For 1 1/2" Tubes and 1" Parallel Top. Straight Round Tapered Chain Stays. Comprising the following parts:

Crown D, 1 1/2"	Top Head Lug	1 1/2" x 1" x 68"	For Upright Frame.	1 1/2" x 1" x 73"	Rear Fork End Plates
Seat Lug Eyes	Bottom Head Lug	1 1/2" x 1 1/2" x 67"		1 1/2" x 1 1/2" x 61"	Front Fork Ends
Bottom Stay Eyes	Seat Lug	1 1/2" x 1" x 68"		1 1/2" x 1" x 73"	Chain and Seat Stay Strut
Chain Stay Eyes	Bracket Shell	1 1/2" x 1 1/2" x 1 1/2" C.L. 65° and 59 1/2°		1 1/2" x 1 1/2" x 1 1/2" C.L. 61° and 65°	Pump Pegs (Pair)
Chain Hook					Mudguard Eyes (Pair)
					Reflector Eye

FOR STANDARD FRAME Complete as above.

For 1/2" Chain Stays.

No. 25/F250g/700 With Plain Lugs. .. per set 9/3

With Cut-away and Fish-tailed Lugs and Milled Crown.

No. 25/F250t/706 per set 10/-

SET OF 4 STANDARD FRAME LUGS

Comprising: Top and Bottom Lug, Seat Lug, Bracket Shell as above. Plain.

No. 25/F250w/206 per set 3/6

Cut-away and Fish-tailed.

No. 25/F250z/300 per set 4/3

FOR UPRIGHT FRAME Complete as above.

For 1" Chain Stays. For 1/2" Chain Stays.

No. 25/F251a/700 per set 9/3 No. 25/F251g/700 per set 9/3

With Cut-away and Fish-tailed Lugs and Milled Crown.

No. 25/F251d/706 per set 10/- No. 25/F251h/706 per set 10/-

SET OF 4 UPRIGHT FRAME LUGS

Comprising: Top and Bottom Lugs, Seat Lug, Bracket Shell as above. With Plain Lugs.

No. 25/F251t/206 per set 3/6 No. 25/F251w/206 per set 3/6

Cut-away and Fish-tailed.

No. 25/F251x/300 per set 4/3 No. 25/F251z/300 per set 4/3

Can be supplied with 1/2" or 3/4" Ball Races at the same prices.

Branches:
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Head Office and Warehouse: Wholesale only

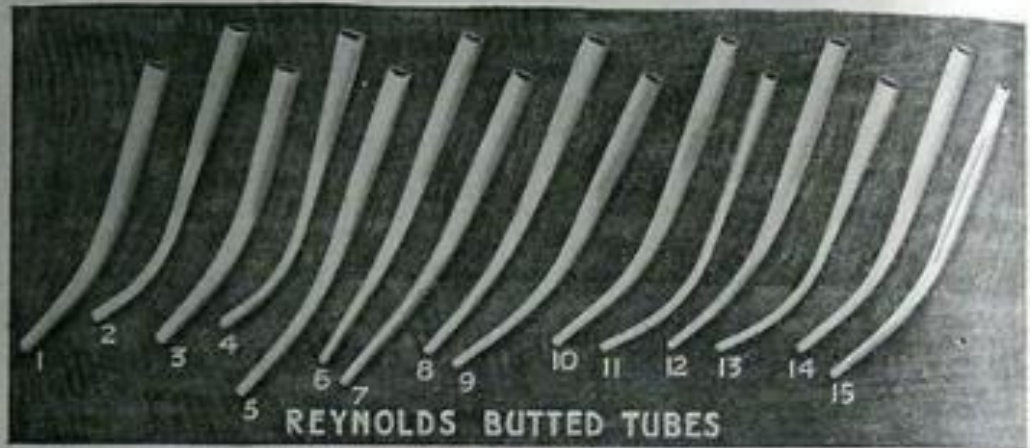
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GREAT EASTERN STREET, LONDON, E.C. 2

128 GEORGE STREET, EDINBURGH, 3

FRONT FORK BLADES (WITH OPEN ENDS)

- Pattern See List Nos. for
Nos. Type.
- 1....25/F383c
 - 2....Supplied to Special Order
 - 3....25/F379d
 - 4....Supplied to Special Order
 - 5....Supplied to Special Order
 - 6....25/F380a
 - 7....25/F380c and 25/F384b
 - 8....Supplied to Special Order
 - 9....25/F380f and t, 25/F384c,
and 25/F392c
 - 10....Supplied to Special Order
 - 11....25/F390a
 - 12....Supplied to Special Order
 - 13....25/F384L and 25/F393c
 - 14....25/F386d and s, 25/F384d
 - 15....25/F386c, 25/F387c and
25/F388c



REYNOLDS BUTTED TUBES

"REYNOLDS"
FRONT FORK BLADES
A, BEST QUALITY

Oval to Round, 14 G.
Tandem Size for "Chater Lea."
No. 25/F379d/209 2 1/2" rake per pair 4/2

"D" to Round.

For "B.S.A.," "Brampton" or
"Sun" Ends.
18 G.

- No. 25/F380a/108 1 1/2" Rake per pair 2/6
- 25/F380a/1906 per doz. pairs —
- 25/F380c/108 2" Rake per pair 2/6
- 25/F380c/1906 per doz. pairs —
- 25/F380d/108 2 1/2" Rake per pair 2/6
- 25/F380d/1906 per doz. pairs —
- 25/F380f/108 3" Rake per pair 2/6
- 25/F380f/1906 per doz. pairs —

18 x 20 Taper Gauge.

- No. 25/F380a/110 2 1/2" Rake per pair 2/10
- 25/F380t/110 3" 2/10

For "Brampton" or "Sun" Tandem
Ends.

16 x 14 G.

- No. 25/F383c/209 3" Rake per pair 4/2

"REYNOLDS"
FRONT FORK BLADES
ROUND, TAPERED TO ROUND

For "B.S.A.," "Brampton" or
"Sun" Ends.

A, QUALITY. 17 x 20 Taper Gauge.

1/2" Round, not Fluted, for Path Racer.
No. 25/F386c/110 3" Rake per pair 2/10

1/2" Round, Fluted, for Path Racer.
No. 25/F387c/110 3" Rake per pair 2/10

1" Round, Fluted, for Road Racer.
18 x 20 G.

- No. 25/F388c/110 3" Rake per pair 2/10

CONTINENTAL FRONT
FORK BLADES

(Foreign.) Oval to Round 1 1/2"
Size 1 1/2" x 1 1/2" O/S Dia. of fork
Ribbed for strength and design.
No. 25/F396c/109 per pair 2/6

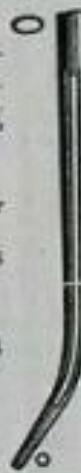
"CHATER LEA"
FRONT FORK LINERS

Flat Sheet Metal for "D" or
Oval Cycle Forks (No. 1449).

- No. 25/F410a/2j per pair -/3

For Oval Tandem Forks
(No. 1449-2).

- No. 25/F410a/3 per pair -/4



"REYNOLDS" HIGH MANGANESE
For Strength and Ductility.
As used in Aircraft Construction.
18 x 20 Taper Gauge.

Oval to Round. Continental Pattern.
Size 1 1/2" x 1 1/2" outside diameter of oval to fit 1 1/2"
diameter Round Fork Ends.

- No. 25/F382c/302 3" Rake .. per pair 1 1/2

Size 1 1/2" x 1 1/2" outside diameter of oval to fit 1 1/2"
diameter Round Fork Ends to suit Cycle

- Nos. 25/F431 a, t and 25/F431b.

No. 25/F382e/302 3" Rake .. per pair 1 1/2

"D" to Round, 18 x 20 Taper Gauge.

For "B.S.A.," "Brampton" or "Sun" Ends.

- No. 25/F384b/209 2" Rake .. per pair 1 1/2
- 25/F384c/209 3" 1 1/2
- 25/F384d/209 2 1/2" 1 1/2

Super-Resilient Curved Taper, 3" Rake.

Oval to Round, Tandem size, for "Chater Lea."

- No. 25/F384f/309 16 x 20 G. .. per pair 1 1/2

"D" to Round, Cycle size.

To suit "Brampton," "B.S.A." or "Sun" Ends.

- No. 25/F384L/301 18 x 17 x 20 G. .. per pair 1 1/2

1/2" Round to Round, Cycle size.

To suit "Brampton."

- No. 25/F390a/301 18 x 17 x 20 G. .. per pair 1 1/2

"REYNOLDS" No. 531 SUPER STEEL

18 x 20 Taper Gauge.

For "B.S.A." or "Brampton" Ends.

1/2" Round.

- No. 25/F391c/211 2" Rake .. per pair 1 1/2

"D" to Round.

- No. 25/F392c/211 3" Rake .. per pair 1 1/2

Super-Resilient Curved Taper.

"D" to Round, Cycle size.

18 x 17 x 20 Taper Gauge.

- No. 25/F393c/304 3" Rake .. per pair 1 1/2

"B.B.L."
CHROMIUM PLATED COVER

For 25/F422e Crowns.

- No. 25/F420a/6 each 1/4
- 25/F420a/506 per doz. —

BOX CROWNS

Malleable Castings. For Round Forks

"BRAMPTON"

Profiled, 1" stem, 1 1/2" wide.

- No. 25/F423b/101 1/2" Round (810022)
- 25/F423f/102 1" .. (810023)

"SUN" 1/2" Round, Machined all over.

- No. 25/F424b/101 1 1/2" wide .. each 1/2



BOX CROWNS

FOR "D" FORKS. 1" stem.

"Brampton," Malleable Casting.

Profiled, with Drifted Pockets. No. 810002.

- No. 25/F422f/11 1 1/2" side each 1/2
- 25/F422f/1006 per doz. —

Not Profiled or Drifted Pockets. No. 810000.

- No. 25/F422e/6 1 1/2" wide each -/8

Unprofiled for Carrier Cycles. No. 810003.

- No. 25/F422k/9 2 1/2" side each 1/-

Machined Top with Drifted Pockets.

For Tandems.

- 1 1/2" stem for 1 1/2" "D" Forks. 2" wide.
- No. 25/F422r/11 (No. 810601) each 1/2

"B.B.L."

Malleable Casting, Machined all over.

- No. 25/F420a/11 1 1/2" wide each 1/4
- 25/F420a/1006 per doz. —

Malleable Casting, Top only Machined.

- No. 25/F420c/6 1 1/2" side each -/8
- 25/F420c/500 per doz. —

"B.S.A." Genuine Machined all over.

- No. 25/F420r/300 1 1/2" wide each 3/10
- 25/F420r/3406 per doz. —

- 25/F420s/300 1 1/2" wide each 3/10
- 25/F420s/3406 per doz. —

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GREAT EASTERN STREET, LONDON, E.C. 2

FORK CROWNS AND FRONT AND REAR FORK ENDS



CONTINENTAL DROPPED FORGED STEEL BOX FORK CROWNS (Foreign.)

Machined and specially cut away. For Oval Forks. Size $1\frac{1}{2}$ " x $\frac{1}{2}$ ". To suit 25/F382c and 25/F396c Oval Forks. With $1\frac{1}{2}$ " clearance, 1" stem. No. 25/F427r/208 each 3/6



CONTINENTAL DROPPED FORGED STEEL BOX FORK CROWNS (Foreign.)

Machined and specially cut away. With $1\frac{1}{2}$ " clearance, 1" stem. To suit 25/F382c and 25/F396c Oval Forks. For Oval Forks. Size $1\frac{1}{2}$ " x $\frac{1}{2}$ ". No. 25/F427i/208 each 3/6 For "D" Forks. Size $1\frac{1}{2}$ " x $\frac{1}{2}$ ". No. 25/F427w/208 each 3/6



CONTINENTAL FRONT FORK ENDS

Best Quality Dropped Forging. To suit 25/F396c Fork Blades. With Mudguard Eye. (Foreign.) With ends to enter $\frac{1}{2}$ " dia. Fork Blades. No. 25/F540/9 per pair 1/- 25/F540/700 doz. pairs --



FRONT FORK ENDS

Machined and slotted $\frac{1}{8}$ " hole $\frac{1}{2}$ " and Plain Ends. For Round End Forks.

"BRAMPTON"

With Mudguard Eye. No. 860201. No. 25/F537d/9 per pair 1/- Without Mudguard Eye. No. 860200. No. 25/F537a/8 per pair 1/-



STANDARD PATTERN COMPLETE WITH TOP AND BOTTOM STAY ENDS

PRESSED STEEL

No. 25/F582s/100 per pair 1/6 "BRAMPTON" With Top and Bottom Stay Ends. With Cam Adjusters. No. 25/F585d/306 per pair 4/6



BOX CROWNS MILLED OR GAPPED

For "D" Forks. For 1" Stem. "B.S.A." Genuine. Machined all over. No. 25/F426e/300 $1\frac{1}{2}$ " wide each 3/10

"Brampton," for "D."

Profiled Malleable Casting with Drifted Pockets. No. 810002. No. 25/F426m/100 $1\frac{1}{2}$ " wide each 1/4 25/F426m/1106 per doz. --

"Brampton," for Round.

Profiled for $\frac{1}{2}$ ". Malleable Casting 810022. No. 25/F426r/102 $1\frac{1}{2}$ " wide each 1/7 25/F426r/1306 per doz. -- Profiled for 1". Malleable Casting 810023. No. 25/F426s/106 $1\frac{1}{2}$ " wide each 2/-

"B.B.L."

Malleable Casting, for "D." $1\frac{1}{2}$ " wide. Top only Machined. No. 25/F427c/7 each -/9 25/F427c/600 per doz. --

Machined all over, for "D" Forks. No. 25/F427i/101 each 1/8

For $\frac{1}{2}$ " Round Forks.

Milled or Gapped $1\frac{1}{2}$ " wide. No. 25/F427L/103 each 2/-

Fish-tailed $1\frac{1}{2}$ " wide.

No. 25/F427m/103 each 2/-

"BRAMPTON" SLOPING TOP

Malleable Cast. Box Crowns. For $1\frac{1}{2}$ " "D" Forks. Profiled, for Tandems. $1\frac{1}{2}$ " stem. Plain. No. 810600. No. 25/F432t/11 2" wide each 1/3

Milled or capped each end. No. 810600. No. 25/F432w/101 2" wide each 1/5



"CHATER LEA" FRONT FORK ENDS

$\frac{1}{2}$ " Dia. Ends. To suit $\frac{1}{2}$ " Cycle Spindle. No. 25/F541h/7 Inset per pair -/9 25/F541k/7 Central .. -/9

$\frac{1}{2}$ " Dia. Ends. To suit $\frac{1}{2}$ " Tandem Spindle. No. 25/F541e/8 Inset per pair -/10

"B.S.A."

Machined and slotted $\frac{1}{8}$ " hole $\frac{1}{2}$ " and Plain Ends. Without Mudguard Eye. For Round Fork Ends. No. 25/F539h/9 per pair -/11 25/F539h/803 per doz. pairs --



"B.B.L." for OVAL (Continental)

Size of Oval, $1\frac{1}{2}$ " x $\frac{1}{2}$ ". To suit 25/F382e Oval Forks. Milled or Gapped. No. 25/F431a/101 $1\frac{1}{2}$ " wide each 1/7 Oval size, $1\frac{1}{2}$ " x $\frac{1}{2}$ ". Fish-tailed $1\frac{1}{2}$ " wide. To suit 25/F382c and 25/F396c Oval Forks. No. 25/F431b/103 each 2/- "Chater Lea," Machined all over. For "D" Forks. No. 25/F428c/109 $1\frac{1}{2}$ " wide each 2/3 25/F428e/109 $1\frac{1}{2}$ " 2/3 For $\frac{1}{2}$ " Round Forks, Cycle. No. 25/F428p/106 $1\frac{1}{2}$ " wide each 2/- For Oval Forks, Tandem, $1\frac{1}{2}$ " stem. No. 25/F429t/200 $1\frac{1}{2}$ " wide each 2/8



"B.B.L." FLAT DOUBLE PLATE CROWNS

To suit Continental Oval Forks. Size of Oval, $1\frac{1}{2}$ " x $\frac{1}{2}$ ". To suit 25/F382e Oval Forks. No. 25/F431t/202 $1\frac{1}{2}$ " wide each 3/- 25/F431w/202 2" pair 3/-



FRONT FORK ENDS

"BRAMPTON" TANDEM Machined and slotted $\frac{1}{2}$ ". Plain Ends. No. 860631. Also suitable for 25/F375t and w Short acute 2" Stake Blades by reversing left for right. No. 25/F537t/10 per pair 1/1 With Round Ends to enter $\frac{1}{2}$ " diameter Fork Blades. Specially made to suit 25/F375c, g and p. also 25/F392g and p Front Forks. Machined special Angle Slots to suit $\frac{1}{2}$ " Spindles. No. 25/F541w/7 Inset per pair -/9 25/F541w/809 doz. pairs -- 25/F541x/7 Central per pair -/9 25/F541x/609 doz. pairs --



"B.S.A." RIGID "DROP-OUT"

Complete with cam adjusters and $\frac{1}{2}$ " top and $\frac{1}{2}$ " bottom stay ends, for $\frac{1}{2}$ " flat chain stays. No. 25/F583d/608 per pair 8/10

Branches: Birmingham, Aston, Bolton, Bradford, Burnley, Darlington, Doncaster, Glasgow, London, Liverpool, Manchester, Newcastle, Nottingham, Oldham, Preston, Rotherham, Sheffield, Salford, Wakefield, Wigan.

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Branches: Mill Lane, Liverpool, London, W.1, Piccadilly, Newcastle, Nottingham, South Shields, Glasgow, Trade, Wakefield.

FORK ENDS (REAR)—continued

"BRAMPTON"
(No. 860220)

"Drop-Out" Pattern, Plain
With loose chain stay ends, and loose bottom stay ends.

No. 25/F5871/103 per pair 1/8

Regl. Design
No. 763780.**"ROSA" DOUBLE REAR FORK END PLATES**

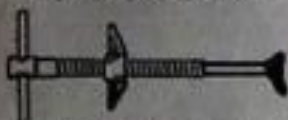
Sizes: $1\frac{1}{2} \times 1\frac{1}{2}$ "
No. 25/F608r/102 per pair 1/6
Sizes: $\frac{3}{4} \times \frac{3}{4}$ "
No. 25/F608t/102 per pair 1/6

**CONTINENTAL REAR FORK ENDS**

Best Quality Dropped Forging. To suit 25/F821 Chain Stays and 25/F873 Seat Stays. With Mudguard Eye. (Foreign) Seat stay end to enter $\frac{1}{8}$ " Chain stay end to enter $\frac{1}{8}$ ".

No. 25/F596/108 per pair 2/-
25/F596/1600 doz. pairs—**FORK END SCREWS**

Square Head.
Size $\frac{1}{8} \times \frac{1}{8} \times 32$ thread.
"B.B.L." Nickel Plated.
No. 25/F632a/5 per doz. -/9
25/F632a/406 per gross—

**"DREADNOUGHT" FORK EXPANDER**

Registered Design.
Is of great service, springing open the forks when removing front wheel; enables the back tyre to be changed without taking out wheel. Cannot slip.

No. 25/F666d/200 each 2/9

**"CHALLENGE" FORK EXPANDER (Foreign)**

Plated, with fynut screw and rubber-covered lugs to prevent scratching enamel. Overall length, $5\frac{1}{2}$ ", suitable for tool bag.

No. 25/F660a/10 each 1/3

**"BRAMPTON"**

Tandem, "Drop-Out" Pattern. With loose bottom seat stay end lugs.

For Central Stay (No. 870641)

No. 25/F588a/103 per pair 1/8

With loose bottom, eyes for Lateral Stay (No. 870640).

No. 25/F588d/108 per pair 2/3

**"CHATER LEA" FORK ENDS (279-280)**

For Dropped Chassis or Standard Model Box Carriers, to suit 1×16 G. "D" Chain Stays, and $\frac{3}{4} \times 16$ G. "D" Seat Stays, without Mudguard Stay Bolt, complete with Adjusters.

No. 25/F595a/502 per set 6/11

FORK ENDS PARTS

Fork Ends only, less Adjuster.

No. 25/F595b/309 per pair 5/-

FORK END SCREWS

"B.B.L." Nickel Plated. Hexagon Head.

Size: $\frac{1}{8} \times \frac{1}{8} \times 32$ thread.

No. 25/F634a/7 per doz. 1/-

25/F634a/606 per gross—

**"ROSA" IMPROVED FORK EXPANDER**

Simple and effective.

No. 25/F660g/303 each 4/11

**"MILLENNIUM" FORK EXPANDER**

Improved type for cycle fork.

No. 25/F660m/400 each 5/3

**"CHATER LEA" RIGID**

Ordinary slotted, with loose stay eyes (less adjuster).

Cycle. No. 684-3.

No. 25/F591a/10 per pair 1/1

25/F591a/909 doz. pairs—

Tandem. No. 684-2.

No. 25/F591b/10 per pair 1/1

25/F591b/909 doz. pairs—

**"OSGEAR" DOUBLE FORK END PLATES**

(No. 25a). (Foreign.)

No. 25/F605z/100 per pair 1/4

Give perfect adjustment of hub spindle when used in conjunction with the Derailleur Gear.

**"JOHN BULL"**

Black Rubber. For 1" tubes. On cards of 1 dozen.

No. 25/F686e/400 per doz. 6/-

**"BROWN" FORK EXPANDER**

Simple and easy to use, as the above illustration shows.

No. 25/F660r/506 each 7/6

**"CHATER LEA" RIGID**

Forward opening, with loose stay eyes.

With Chromium adjusters.

Cycle. No. 939-6.

No. 25/F591g/204 per pair 3/1

Tandem. No. 939.

No. 25/F591h/204 per pair 3/1

Less adjusters.

Cycle. No. 939-6.

No. 25/F591d/100 per pair 1/4

Tandem. No. 939.

No. 25/F591e/100 per pair 1/4

**"CHATER LEA" RIGID**

Forward opening, with loose stay eyes, non-adjuster type.

Serrated, with $\frac{1}{8}$ " slots.

Cycle. No. 1553-1.

No. 25/F591r/10 per pair 1/1

Tandem. No. 939-3.

No. 25/F591s/11 per pair 1/2

Plain, with $\frac{1}{8}$ " slots.

Cycle. No. 1553.

No. 25/F591t/9 per pair 1/1

Tandem. No. 939-2.

No. 25/F591w/10 per pair 1/1

**"SIMPLEX" DOUBLE FORK END PLATES**

(Foreign.)

Specially suitable for "Simplex" Derailleur Gears.

No. 25/F606/10 per pair 1/1

No. 25/F606/10 per pair 1/1

No. 25/F606/10 per pair 1/1

No. 25/F606/10 per pair 1/1

No. 25/F606/10 per pair 1/1

No. 25/F606/10 per pair 1/1

No. 25/F606/10 per pair 1/1

No. 25/F606/10 per pair 1/1

No. 25/F606/10 per pair 1/1

No. 25/F606/10 per pair 1/1

No. 25/F606/10 per pair 1/1

No. 25/F606/10 per pair 1/1

No. 25/F606/10 per pair 1/1

No. 25/F606/10 per pair 1/1

No. 25/F606/10 per pair 1/1

No. 25/F606/10 per pair 1/1

No. 25/F606/10 per pair 1/1

No. 25/F606/10 per pair 1/1

No. 25/F606/10 per pair 1/1

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GENT.'S

No. 25/F703b/7 1" dia. x 24" long. each -/11
25/F703b/609 per doz. —

22 Gauge Straight Plain Gauge Tubes. Bright Finish.

No. 25/F706b/8 1" dia. x 24" each 1/-
25/F706b/703 per doz. —
25/F707b/8 1½" dia. x 24" each 1/-
25/F707b/703 per doz. —

For SCREWED and SLOTTED BUTTED HEAD STEMS See page 149.

TAPERED FRAME TUBES FOR "GRANBY" TAPERED TUBE FRAMES

"A. & P." Chrome Molybdenum. For Standard Set.

Top Tube: ½" to 1½", 22 G.

No. 25/F728a/209 21½" long each 4/-
25/F728aa/209 23" 4/-

Bottom Tube: 1" to 1½", 22 G.

No. 25/F728b/209 21½" long each 4/-
25/F728bb/209 23" 4/-

Seat Tube: 1½" to 1¾", 22 G.

No. 25/F728c/209 22" long each 4/-
25/F728d/209 26" 4/-

TAPERED FRAME TUBES FOR "GRANBY" TAPERED TUBE FRAMES

"Reynolds" High Manganese. For Upright Set.

Top Tube: 1" Parallel x 20" long, 24/20 G.
No. 25/F729a/308 each 2/6

Bottom Tube: 1½" to 1¾" x 24" long, 22 G.
No. 25/F729b/304 each 5/-

Seat Tube: 1½" to 1¾" x 26" long, 24 G.
No. 25/F729c/306 each 5/3

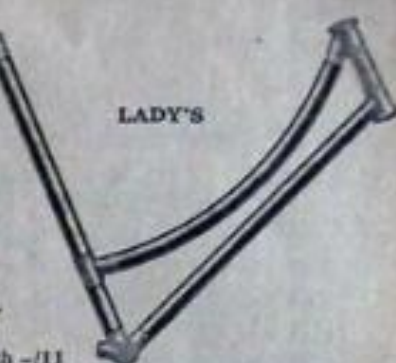


Can also be supplied with Round Taper Gauge Front Forks and Plain Tapered Chain Stays if required.

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LADY'S

FRAME TUBES

"ACCLES AND POLLOCK"
WELDLESS STEEL ROUND FRAME
TUBES

18 Gauge Straight Plain Gauge Tubes. Bright Finish.

No. 25/F700b/8 1" dia. x 24" long each 1/-
25/F700b/709 per doz. —
25/F701b/8 1½" dia. x 24" long each 1/-
25/F701b/709 per doz. —

20 Gauge Straight Plain Gauge Tubes. Bright Finish.
¾" dia. x 24" long. 1½" dia. x 24" long.

No. 25/F702b/7 each -/11 No. 25/F704c/7 each -/11
25/F702b/609 per doz. — 25/F704c/609 per doz. —
No. 25/F704f/9 1½" dia. x 27" long each 1/2
25/F704f/806 per doz. —

20 Gauge Curved Loop Tubes ¾" dia.

Bright Finish.

(For Ladies' Frames)

No. 25/F710a/9 For 7" Heads each 1/11

"ACCLES AND POLLOCK" CHROME MOLYBDENUM STEEL ROUND FRAME TUBES

For Greater Strength and Lightness.

GENT.'S (Sets of 4), 1" or 1½" and 1¾" Head. Plain Gauge, 22 Gauge.

No. 25/F719a/407 per set 6/10

Stocked in the following lengths:

Top Tube 1" x 23" long
Bottom Tube 1½" x 22½" ..
Seat Tube (Plain) 1½" x 23½" ..
Head (Plain Gauge) 1½" x 7½" ..

TUBES FOR "CHATER LEA" CARRIER TRICYCLE FITTINGS

For Dropped Chassis Model

		each
/110	Head to Bracket 1½" x 16 G.	2/5
/104	" " " 1½" x 16 G.	1/8
/102	Front Down Tube 1½" x 16 G.	1/7
/10	Seat Tube 1½" x 17 G.	1/2
		per doz.
/609	Briggs and ends for Seat Stays	7/9
		each
/6	Bracket to Strut Bridge 1½" x 16 G.	-/7

"REYNOLDS" BUTTED FRAME TUBES, WITH FRONT FORKS, CHAIN AND SEAT STAYS

For Brampton's Road Racer Fittings, comprising: Butted Frame Tubes, Outside Head Tube, "D to Round" Taper Gauge Front Forks, Round Tapered Seat Stays and Round Tapered Fluted Chain Stays.

Complete set of 10 Tubes, packed in cardboard box.

"A" BEST QUALITY

19 x 22 G. To make up any size Frames, 21", 22", 23" or 24"
No. 25/F740a/906 For 26" wheels per set 14/5

Branches:
Bull. Lane, Liverpool
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Newcastle, Newcastle
Nottingham, Nottingham
Preston, Preston
Sheffield, Sheffield
Wolverhampton

20 Gauge for Head 1½" dia.

"A" Best Quality.

No. 25/F712p/100 24" long each 1/5
Chrome Molybdenum.

No. 25/F713p/200 24" long .. each 3/-
25/F713m/709 7½" .. per doz. 11/6

"CHATER LEA" CURVED LOOP TUBES

For Standard Model Box Carrier Tricycles.
1½" dia. x 14 gauge. 48" long.

No. 25/F733c/211 each 4/3



"B.B.L." VICE TUBE CLAMP

To hold tubes in vice, from sizes ranging 1" to 1½" dia. to prevent damage whilst filing or sawing.

A very popular and handy tool, required in every workshop. Malleable Cast Steel jaws with spring steel clamp.

No. 25/F740/606 each 8/6

COMPLETE SETS OF TUBES FOR "CHATER LEA" DROP CHASSIS MODEL BOX CARRIER TRICYCLE FITTINGS

Including Front Down Tube 1½" x 16 G. x 28½" long, Seat Tube 1½" x 17 G. x 21½" long, straight Seat Stays 1½" D x 16 G. x 18½" long, straight Chain Stays 1" D x 16 G. x 13" long, Extension Tube 1½" round x 16 G. x 4½" long, Top Tube Head to Bracket 1½" round x 16 G. x 30½" long, Bottom Tube Head to Bracket 1½" round x 16 G. x 29½" long.

Tubes complete.
No. 25/F733d/902 per set 12/2

FRAME CHAIN AND SEAT STAY BRIDGES, ETC.—continued



CHAIN STAY BRIDGE
"CHATER LEA"

$\frac{1}{4}$ " Round \times $\frac{1}{4}$ " D to suit Standard or Dropped Chassis (No. 1417).
No. 25/F916c/201 each 2/9

"BRAMPTON" For Tandems.
 $\frac{1}{4}$ " \times $\frac{1}{4}$ " Round. (870600)
No. 25/F912b/103 each 1/8
 $\frac{1}{4}$ " \times $\frac{1}{4}$ " Round. (870602)
No. 25/F912c/103 each 1/8



"B.B.L." STRUT JOINT

For Cranked Chain Stays.
No. 25/F920k/100 per doz. 2/6



BOTTOM SEAT STAY END LUGS,
ROUND, TO SUIT RIGID FRAMES

"B.S.A." Genuine. $\frac{1}{2}$ " Round.
No. 25/F957b/101 per pair 1/5
25/F957b/1206 per doz. pairs —

"B.B.L." Slotted at Angle,
 $\frac{1}{2}$ " Round, for No. 25/F865d.
No. 25/F957c/31 per pair -/4
25/F957c/303 per doz. pairs —

$\frac{1}{2}$ " Round, Special Small Round Stays, for
No. 25/F860d.
No. 25/F957d/3 per pair -/4

"B.B.L." for Brampton or Sun
 $\frac{1}{2}$ " Round, Slotted at Angle.
No. 25/F957e/3 per pair -/4

"Brampton" $\frac{1}{2}$ " Round for Tandem
Slotted at Angle. (No. 870651)
No. 25/F957k/3 per pair -/4

"CHATER LEA" GENUINE
 $\frac{1}{2}$ " Round for Tandem (No. 709-1).
No. 25/F957s/3 per pair -/4

$\frac{1}{2}$ " Round for Cycle (No. 709-3).
No. 25/F957w/3 per pair -/4

$\frac{1}{2}$ " Round for Cycle (No. 709-4).
No. 25/F957x/3 per pair -/4



DISTANCE STRUT PIECE

For Lady's loop tubes.

"B.B.L."
No. 25/F991a/103 per doz. 3/-

"B.S.A." Genuine
No. 25/F991d/607 per doz. 8/10



"CHATER LEA" CHAIN STAY
EXTENSION STRUT LUG (No. 1494)

$\frac{1}{2}$ " round \times $\frac{3}{8}$ " oval for No. 14a Tandems.
No. 25/F917/11 each 1/2



SEAT STAY BRIDGES

For $\frac{1}{2}$ " D Stays. Roadster or Racing.

Best Quality.

No. 25/F935a/10 each 1/2

"B.S.A." GENUINE

Pattern B10 Roadster.

No. 25/F935f/106 each 2/-



"BRAMPTON" SEAT STAY STRUT

$2\frac{1}{8}$ " for Cycle or Tandem (No. 860050).
No. 25/F938s/104 per doz. 1/9



**TOP STAY END LUGS FOR ROUND
STAYS TO SUIT RIGID FRAMES**

$\frac{1}{2}$ " Spigot.

"B.S.A." Genuine. $\frac{1}{2}$ " Round.
No. 25/F958a/101 pair 1/5
25/F958a/1206 doz. pairs —

"B.B.L."
 $\frac{1}{2}$ " Round, $\frac{1}{2}$ " Spigot, for 25/F865d.
No. 25/F958c/4 per pair -/5
25/F958c/402 per doz. pairs —

"Brampton" (No. 870303). $\frac{1}{2}$ " Round.
No. 25/F958f/4 per pair -/5
25/F958f/209 per doz. pairs —

$\frac{1}{2}$ " Round for "Brampton" Tandem
(No. 870650)
No. 25/F958k/4 per pair -/6

"Chater Lea"
 $\frac{1}{2}$ " for $\frac{1}{2}$ " Round, $\frac{1}{2}$ " Spigot (No. 683).
For Cycle or Tandem.

No. 25/F958s/4 per pair -/5
 $\frac{1}{2}$ " for $\frac{1}{2}$ " Round, $\frac{1}{2}$ " Spigot (No. 683-2).
For Cycle.

No. 25/F958t/4 per pair -/5



CHAIN STAY END LUGS
To suit Fork Ends for Rigid Frames.

"Chater Lea."
 $\frac{1}{2}$ " round. Cycle (No. 940-2).
No. 25/F919b/3 per pair -/4

$\frac{1}{2}$ " round. Tandem (No. 940).
No. 25/F919c/3 per pair -/4

"B.B.L." for "Brampton" or "Sun."
 $\frac{1}{2}$ " round.
No. 25/F919f/3 per pair -/4

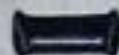


BRIDGE PIECE

For $\frac{1}{2}$ " D Cranked Seat Stays.

"B.B.L."

No. 25/F938f/100 per doz. 2/6



CHAIN STAY STRUT. $1\frac{1}{2}$ " for Cycle.

"BRAMPTON" (No. 860000).
No. 25/F938L/10 per doz. 1/1

"CHATER LEA" No. 1874.
No. 25/F938n/203 per doz. 3/-



BOTTOM SEAT STAY ENDS

For D section Stays.

Best Quality.

For $\frac{1}{2}$ " D.
No. 25/F955b/5 per pair -/7

For $\frac{1}{2}$ " D.
No. 25/F955c/5 per pair -/7



"CHATER LEA" TOP STAY END
LUGS

For Round Stays to suit Rigid Frames.

With Sloping Sides.

$\frac{1}{2}$ " for $\frac{1}{2}$ " Round, $\frac{1}{2}$ " Spigot (No. 1588).
For Cycle or Tandem.

No. 25/F958w/8 per pair -/7
25/F958w/503 per doz. pairs —

$\frac{1}{2}$ " for $\frac{1}{2}$ " Round, $\frac{1}{2}$ " Spigot (No. 1588-1).
For Cycle.

No. 25/F958x/5 per pair -/5
25/F958x/403 per doz. pairs —

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FREE WHEELS



"B.B.L." FREE WHEEL

Fitted with 2 full rows of Balls.

Good Quality. (British Make.)

		$\frac{1}{2}$ " pitch.	each
No. 25/F1211e/106	16 T. x $\frac{1}{2}$ "		2/6
25/F1211g/106	18 T. x $\frac{1}{2}$ "		2/6
25/F1211k/106	20 T. x $\frac{1}{2}$ "		2/6
25/F1212e/106	16 T. x $\frac{3}{4}$ "		2/6
25/F1212g/106	18 T. x $\frac{3}{4}$ "		2/6
25/F1212k/106	20 T. x $\frac{3}{4}$ "		2/6

		$\frac{1}{2}$ " pitch.	each
No. 25/F1213d/108	15 T. x $\frac{1}{2}$ "		2/8

Also Screwed Specially to customer's own pattern.

1406 each 6/9



"LION SUPERB" FREE WHEEL

Ball Bearing. British Make.

18 Teeth x $\frac{1}{2}$ " Pitch x $\frac{1}{2}$ ".

No. 25/F1223g/105	..	each 2/3
25/F1223g/1608	..	per doz. —



MINIATURE FREE WHEELS

14 teeth, $\frac{1}{2}$ " pitch x $\frac{1}{2}$ ".
1" x 20 Thread.

"B.B.L." Plain Bearing.

No. 25/F1247c/11	..	each 1/4
25/F1247c/1609	..	per doz. —

"B.B.L." Ball Bearing.

No. 25/F1247m/104	..	each 1/10
25/F1247m/1609	..	per doz. —

"B.W." Plain Bearing.

No. 25/F1249c/100	..	each 1/6
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"B.W." Ball Bearing.

No. 25/F1249m/105	..	each 2/1
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"PEERO" FREE WHEEL

Best Quality. (British Make.)

		$\frac{1}{2}$ " pitch.	each
No. 25/F1230e/108	16 T. x $\frac{1}{2}$ "		2/9
25/F1230f/108	17 T. x $\frac{1}{2}$ "		2/9
25/F1230g/108	18 T. x $\frac{1}{2}$ "		2/9
25/F1230h/108	19 T. x $\frac{1}{2}$ "		2/9
25/F1230k/108	20 T. x $\frac{1}{2}$ "		2/9
25/F1230m/109	22 T. x $\frac{1}{2}$ "		2/11
25/F1231g/108	18 T. x $\frac{3}{4}$ "		2/9
25/F1231k/108	20 T. x $\frac{3}{4}$ "		2/9



"VINDEC" FREE WHEEL

British Make, with Cadmium Rustless finish Sprocket, fitted with one full row of large size balls.

		$\frac{1}{2}$ " Pitch.	each
No. 25/F1240e/108	16 T. x $\frac{1}{2}$ "	..	2/9
25/F1240g/108	18 T. x $\frac{1}{2}$ "	..	2/9
25/F1240k/108	20 T. x $\frac{1}{2}$ "	..	2/9
25/F1241g/108	18 T. x $\frac{3}{4}$ "	..	2/9
25/F1241k/108	20 T. x $\frac{3}{4}$ "	..	2/9

"VINDEC" HEAVY CARRIER CYCLE FREE WHEEL. British Make.

With Two Full Rows of Balls.

Screwed "B.S.A." size, 1 1/2" Bore x 24 Thread. 22 Teeth x $\frac{1}{2}$ " Pitch x $\frac{1}{4}$ " Wide. Straw Colour Finish.

No. 25/F1243/200	..	each 3/-
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A Free Wheel which can be thoroughly recommended for Carrier Cycle Work.



"B.W." FREE WHEEL

$\frac{1}{2}$ " pitch.

No. 25/F1253e/108	16 T. x $\frac{1}{2}$ "	each 2/9
25/F1253g/108	18 T. x $\frac{1}{2}$ "	.. 2/9
25/F1253k/108	20 T. x $\frac{1}{2}$ "	.. 2/9
25/F1254g/108	18 T. x $\frac{3}{4}$ "	.. 2/9
25/F1254k/108	20 T. x $\frac{3}{4}$ "	.. 2/9



"COVENTRY" ELITE FREE WHEEL

		$\frac{1}{2}$ " pitch.	each
No. 25/F1265e/108	16 T. x $\frac{1}{2}$ "	..	2/9
25/F1265f/108	17 T. x $\frac{1}{2}$ "	..	2/9
25/F1265g/108	18 T. x $\frac{1}{2}$ "	..	2/9
25/F1265h/108	19 T. x $\frac{1}{2}$ "	..	2/9
25/F1265k/108	20 T. x $\frac{1}{2}$ "	..	2/9
25/F1266g/108	18 T. x $\frac{3}{4}$ "	..	2/9
25/F1266k/108	20 T. x $\frac{3}{4}$ "	..	2/9



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FREE WHEELS—continued



"T.D.C." BALL BEARING FREE WHEEL

- $\frac{1}{2}$ " pitch.
 No. 25/F1275e/107 16 T. $\times \frac{1}{2}$ " each 2/6
 25/F1275g/107 18 T. $\times \frac{1}{2}$ " .. 2/6
 25/F1276g/107 18 T. $\times \frac{3}{8}$ " .. 2/6
 25/F1276k/107 20 T. $\times \frac{3}{8}$ " .. 2/6



"CYCLO" QUADRUPLE FREE WHEEL

For use with "Cyclo" Four-speed Derailleur Gear. Made in the following sizes:

- 1st Gear: 13, 14, 15, 16 T. $\times \frac{1}{2}$ " $\times \frac{1}{2}$ "
 2nd Gear: 17, 18, 19 T. $\times \frac{1}{2}$ " $\times \frac{1}{2}$ "
 3rd Gear: 20, 21, 22 T. $\times \frac{1}{2}$ " $\times \frac{1}{2}$ "
 4th Gear: 25, 26, 28 T. $\times \frac{1}{2}$ " $\times \frac{1}{2}$ "
 No. 25/F1294c/311 Complete, each 9/3
 Free Wheel less 1st, 2nd and 4th Gear Sprockets.
 No. 25/F1294f/309 each 5/-



"PERRY" FREE WHEEL

- $\frac{1}{2}$ " pitch.
 No. 25/F1300e/108 16 T. $\times \frac{1}{2}$ " each 2/9
 25/F1300g/108 18 T. $\times \frac{1}{2}$ " .. 2/9
 25/F1300k/108 20 T. $\times \frac{1}{2}$ " .. 2/9
 25/F1300l/109 21 T. $\times \frac{1}{2}$ " .. 2/11
 25/F1301g/108 18 T. $\times \frac{3}{8}$ " .. 2/9
 25/F1301k/108 20 T. $\times \frac{3}{8}$ " .. 2/9
 25/F1301m/109 22 T. $\times \frac{3}{8}$ " .. 2/11

"PERRY" INSET FREE WHEEL

- $\frac{1}{2}$ " pitch $\times \frac{1}{2}$ " For Double Cog Hubs
 No. 25/F1309g/106 16 T. .. each 2/9
 25/F1309k/106 20 T. 2/9

"COVENTRY" DOUBLE CROWN FREE WHEEL

- For Two-speed Chain Gear.
 $\frac{1}{2}$ " pitch $\times \frac{1}{2}$ "
 Made in sizes, 16/17, 18/19, 18/20 and 19/21.
 No. 25/F1270/303 each 5/-

"CYCLO" FREE WHEELS

For use with "Cyclo" and "Witmy" Two-speed Chain Gears.
 $\frac{1}{2}$ " $\times \frac{1}{2}$ ".



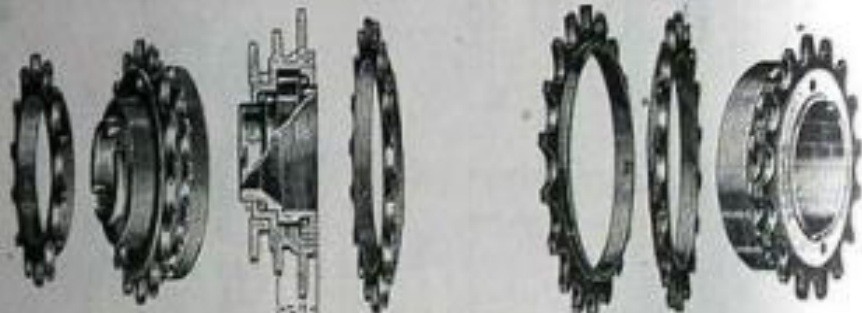
"Cyclo" Double Cog Free Wheel

- Sizes:
 Free Wheel, 16, 17, 18, 19, 20, 21 and 22 T.
 Sprockets, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 and 28 T.
 No. 25/F1284c/311 complete each 5/3
 Free Wheel, less Loose Low Gear Sprocket.
 No. 25/F1284f/210 each 3/9



"Cyclo" Triple Cog Free Wheel. $\frac{1}{2}$ " $\times \frac{1}{2}$ "

- Made in the following sizes:
 Small: 13, 14, 15, 16, 17, 18 T.
 Middle: 17, 18, 19, 20, 21, 22 T.
 Large: 18, 19, 20, 21, 22, 23, 24, 25, 26, 28 T.
 No. 25/F1290c/508 .. complete each 7/6
 Free Wheel, less Small and Middle Gear Sprockets.
 No. 25/F1290f/300 each 4/-
 Please state sizes of sprocket required when ordering. In order to save delay in delivery, please give us alternative sizes in case we cannot send immediately.



"SIMPLEX" CHAMPION THREE-SPEED FREE WHEELS (FOREIGN)

- $\frac{1}{2}$ " $\times \frac{1}{2}$ " made in the following sizes:
 Boss Type, No. M.3.
 High Gear: 14, 15, 16 T. (loose).
 Middle Gear: 16, 17, 18 T. (fixed).
 Low Gear: 17, 18, 19, 20, 21, 22, 23, 24 T. (loose).
 No. 25/F1296b/605 Complete each 8/6
 Plain Type, No. E.3.
 High Gear: 16, 17 T. (fixed).
 Middle Gear: 17, 18, 19, 20, 21, 22, 23, 24 T. (loose).
 Low Gear: 20, 21, 22, 23, 24 T. (loose).
 No. 25/F1296p/605 Complete each 8/6
 Can be supplied in low gear, sizes 25 to 30 T.
 III Extra each 2/6
 Can be supplied with Duralumin cogs in lieu of Steel cogs at an extra charge.

SUPER CHAMPION "OSGEAR" THREE-SPEED FREE WHEELS (FOREIGN)

- $\frac{1}{2}$ " $\times \frac{1}{2}$ " made in the following sizes.
 Boss Type
 High Gear: 14, 15 T. (loose).
 Middle Gear: 16, 17 T. (fixed).
 Low Gear: 17, 18, 19, 20 T. (loose).
 Complete.
 No. 25/F1298b/605 each 8/6
 Plain Type.
 High Gear: 16, 17 T. (fixed).
 Middle Gear: 17, 18, 19 T. (loose).
 Low Gear: 20, 21, 22 T. (loose).
 Complete.
 No. 25/F1298p/508 each 7/6

"VILLIERS" FREE WHEELS

- For Two- and Three-speed Chain Gears.
 $\frac{1}{2}$ " pitch $\times \frac{1}{2}$ ".
 Double Cog.
 No. 25/F1332e/303 16 and 18 T. each 4/9
 25/F1332f/303 17 .. 19 T. .. 4/9
 Triple Cog.
 Top Gear: 14, 15 and 16 T.
 Middle Gear: 17, 18 and 19 T.
 Low Gear: 20, 21, 22 and 23 T.
 All sprockets are loose and each boss varies.
 No. 25/F1332i/406 each 6/-



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FREE WHEELS—continued.

FREE WHEEL ADAPTER



VILLIERS "MODEL-DE-LUXE"
Fitted with one central full row of balls.
1" pitch.

No. 25/F1322e/108	16 T. x 1" each	2/9
25/F1322f/108	17 T. x 1" ..	2/9
25/F1322g/108	18 T. x 1" ..	2/9
25/F1322h/108	19 T. x 1" ..	2/9
25/F1322k/108	20 T. x 1" ..	2/9
25/F1322m/109	22 T. x 1" ..	2/11
25/F1323g/108	18 T. x 1" ..	2/9
25/F1323k/108	20 T. x 1" ..	2/9
25/F1323m/109	22 T. x 1" ..	2/11

"VILLIERS" CARRIER

Specially suitable for heavy carriers.
22 Teeth. 1" pitch x 1/2" wide.
No. 25/F1337m/606 1 1/2" bore each 9/6

"VILLIERS" INSET FREE WHEEL

For use on double cog hubs. 1" pitch x 1/2".
No. 25/F1328e/108 16 T. each 2/9
25/F1328g/108 18 T. .. 2/9
25/F1328k/108 20 T. .. 2/9

FREE WHEEL PAWLS

No. 25/F1666a/6	For "B.S.A."	per doz. 1/-
25/F1666b/6	"B.W."	.. 1/-
25/F1666c/6	"Coventry"	.. 1/-
25/F1666d/6	"Peero"	.. 1/-
25/F1666e/7	"Perry"	.. 1/-
25/F1666h/106	"Cyclo"	.. 2/-

FREE WHEEL PAWLS

Half-Moon pattern, for Micrometer Free Wheels.

No. 25/F1668b/6	..	per doz. 1/-
"CYCLO" (Old pattern up to 1932.)		
No. 25/F1668h/106	..	per doz. 2/-

FREE WHEEL PAWLS "B.B.L."

For Nos. 25/F1211 and 25/F1212.
No. 25/F1669b/6 .. per doz. 1/-
For Miniature No. 25/F1247.
No. 25/F1669m/6 .. per doz. 1/-

"SIMPLEX" FREE WHEEL PARTS

No. 25/F1677a/106	Springs	doz. 2/-
25/F1677d/6	Pegs	.. 1/-



"STURMEY ARCHER" FREE WHEEL

Spined (instead of screwed) to fit Two-speed Hubs.
1" pitch x 1/2".

No. 25/F1316e/109	16 T. ..	each 2/9
25/F1316f/109	17 T. ..	.. 2/9
25/F1316g/109	18 T. ..	.. 2/9
25/F1316h/109	19 T. ..	.. 2/9
25/F1316k/109	20 T. ..	.. 2/9



FREE WHEEL PARTS

PAWL SPRING

For "B.B.L." or "T.D.C."
No. 25/F1676b/2 .. per doz. -/9
For Miniature.
No. 25/F1676m/2 .. per doz. -/6

ROUND FREE WHEEL SPRINGS

B.S.A. size.
No. 25/F1681a/3 .. per doz. -/9
25/F1681a/200 .. per gross —



"TERRY'S" FREE WHEEL SPRINGS

In boxes of 1 gross assorted.
No. 25/F1664a/208 .. per box 4/-



"VILLIERS" MIDGET FREE WHEEL

14 T. x 1/2" pitch x 1/2".
1" bore x 20 thread.

No. 25/F1340a/101 .. each 1/8

For Juvenile Tricycle
With Plain Boss 1/2" Bore.

No. 25/F1340g/104 .. each 2/-

FREE WHEEL ADAPTER

1/2" bore. Outside thread 1 1/2" x 24.
This enables a standard size Cycle Free Wheel to be used on shafts when required for special purposes. Being soft it can be turned out by customer to required size of shaft.

No. 25/F1355/104 .. each 2/-
25/F1355/1506 .. per doz. —

FREE WHEEL PAWLS "VILLIERS"

For Standard.
No. 25/F1667f/6 .. per doz. 1/-
For Model-de-Luxe.
No. 25/F1667g/6 .. per doz. 1/-
For Carrier.
No. 25/F1667k/7 .. per doz. 1/3
"SIMPLEX"
No. 25/F1667s/106 .. per doz. 2/-

STURMEY ARCHER FREE WHEEL LOCK RINGS

For Spined Free Wheels for Two-speed Hubs.
No. TF. 124.
No. 25/F1660/504 .. doz. 8/-

FREE WHEEL PAWL SPRINGS

No. 25/F1675a/4 "B.S.A." .. per doz. 1/-
25/F1675b/3 "B.W." .. -/9
25/F1675c/3 "Coventry" .. -/4
25/F1675d/3 "Peero" .. -/9
25/F1675e/3 "Perry" .. -/9
25/F1675h/8 "Cyclo" .. 1/-
"Sturmev Archer"
No. 25/F1675m/3 .. per doz. -/9
25/F1675p/3 "Villiers" .. -/9
"Villiers" Carrier.
No. 25/F1675r/4 .. per doz. 1/-

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FREE WHEEL PARTS—continued

BALL SEPARATORS

For Free Wheels.

No. 25/F1687/3 per doz. 1/9
 25/F1687/100 per gross —

FREE WHEEL SPACING OR ADJUSTING WASHERS

No. 25/F1689/3 per doz. 1/-

For CYCLO FREE WHEEL PARTS

see page No. 195.



No. 25/F1688/205 per box 3/9

BOX OF SUNDRY REPAIR PARTS FOR FREE WHEELS

Containing:
 1 gross of assorted
 Pawls, Springs, Screws,
 Rivets, Rollers, Oil
 Hole Covers, etc.

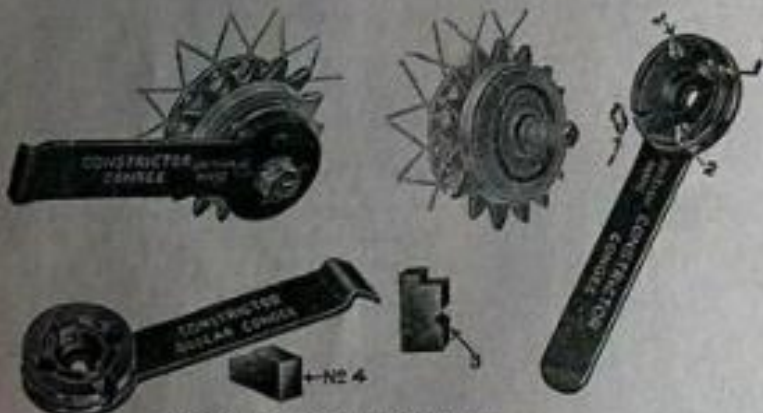


CYCLO "ROSA" SPROCKET REMOVER JIG AND FREE WHEEL HOLDER COMBINED

For bolting down to bench. Sliding adjusting plate with peg for various size sprockets. A most useful tool for the workshop.

No. 25/F1694/1006 each 15/-

FREE WHEEL REMOVERS



CONSTRUCTOR "CONGEE" FREE WHEEL REMOVER AND TYRE LEVER

Each spanner is fitted with two pairs of pegs for wide and narrow slots to suit various Free Wheels. Remove spring and take out pegs not required, and replace when not in use. The existing nut and washer on spindle of hub are used to hold spanner in position. It is necessary to do up this nut fairly tight, and when you have released the Free Wheel slightly from the hub, you must naturally loosen the nut to allow it to be unscrewed.

For use with ordinary Free Wheels.
 No. 25/F1693c/203 each 3/-
 For use with "Osgear" Boss Type Free Wheels.
 No. 25/F1693e/203 each 3/-

"T.D.C." FREE WHEEL REMOVER

With two pegs. For standard Free Wheels.
 No. 25/F1693t/108 each 2/3



CYCLO "ROSA" ADJUSTABLE FREE WHEEL REMOVERS

Will remove Cyclo and all principal makes of Free Wheels. The screwed pegs can be adjusted to suit the varying peg holes or slots. Specially suitable for the Workshop.
 No. 25/F1693k/406 each 5/9

"CYCLO" FREE WHEEL REMOVING TOOL PATENT NO 428031 REGD DESIGN NO 798793



"ROSA" FREE WHEEL REMOVERS
 Makes the removal of the tight Free Wheel a simple matter. Fix the remover in vice by the two flats, and with the peg inserted in the slots of Free Wheel, turn the wheel round. The leverage obtained is sufficient to remove the tightest Free Wheel.
 Two-peg pattern, for Standard and "Cyclo" Double Free Wheels.
 No. 25/F1693g/102 With narrow pegs each 1/-
 Two-peg pattern, for "Cyclo" Triple Free Wheels.
 No. 25/F1693h/102 With wide pegs each 1/-

SIMPLEX FREE WHEEL REMOVERS

(Foreign).
 Two Peg Pattern.
 For E Type Plain Free Wheels.
 No. 25/F1693l/104 each 1/-
 For M Type Boss Free Wheels.
 No. 25/F1693m/104 each 1/-



"MILLENNIUM" FREE WHEEL REMOVER

By means of the pointed set screw and sliding jaw, the inner and outer rings of the clutch are held securely together to the frame of the tool, which is held in a vice. It is then an easy matter to unscrew the Free Wheel by turning the wheel.

No. 25/F1693a/1207 each 17/-

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FRONT WHEEL DRIVE

THE HELP-IN-HAND AUXILIARY FRONT WHEEL DRIVE OR GEAR

This device has been invented to assist cyclists when climbing any slight, long, or steep gradients.

British made. Fully Patented.

Comprising the following:—

Free wheel 16T x 1/2" x 1/2", plate with screwed boss to take free wheel, and with inside plate with bolts and nuts to fit on hub flange, spindle extension nut. Auxiliary handlebar with handles and double stems, guide and clip to fit on existing handlebar stem, fork clip with tubular spring box, chain and long pull rod.

Easily fitted to almost any make or type of cycle. Full instructions with each attachment.

No. 25/F1730/2206 each 30/-

When ordering please state make and type of machine, whether fitted with Hub Brakes, cable or rod control and if so whether on near or offside.



Operation.—When riding up a hill a cyclist normally pulls on his bars in order to apply more pressure to his pedals. Most of this effort is wasted on the normal type of machine, but when applied to the secondary handlebar incorporated in the "Help-in-Hand," the machine is driven forward without the rider realising he is actually propelling it. This series of strong pulls cuts out all the awkward moments experienced when the machine is almost stationary, with the pedals at top-and-bottom dead centre, thus saving the greatest strain on the legs.

As the rider becomes more conversant with the operation he will be astonished at the ease with which he can surmount gradients.



"B.B." OIL BATH METAL GEAR CASE

Best quality.

Enamelled black (Not lined).

Specially suitable for "Vindee" Popular Model Lightweight Bicycle, with Drop-out Fork Ends.

No. 25/G50e/906 18 1/2" centres for 48 T. wheels each 14/-

Enamelled black, with two rows of gold lines.

Specially suitable for "Vindee" Bicycles, Models "M." and "M.B."

No. 25/G52f/809 18 1/2" centres for 48 T. wheels each 13/3

25/G52L/809 19 1/2" 48 T. 13/3

Enamelled black, with red and gold lines

Specially suitable for "Vindee" Bicycles, Models "S." and "S.B."

No. 25/G53f/809 18 1/2" centres for 48 T. wheels each 13/3

25/G53L/809 19 1/2" 48 T. 13/3

Special line. Enamelled plain black.

No. 25/G54d/709 19 1/2" centres for 44 T. wheels each 11/-

25/G54k/709 19 1/2" 48 T. 11/-

25/G54t/709 20" 48 T. 11/-

Above Oil Bath Gear Cases are suitable for standard B.S.A. specification with combination brazed up fixed back stays or detachable top back stays.

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GEAR CASES



"HALYCON" BLACK CLOTH

With two rows of gold-colour stitching.

No. 25/G10c/300 19 1/2" centres for 44 T. wheels each 4/6

25/G10d/300 19 1/2" 48 T. 4/6



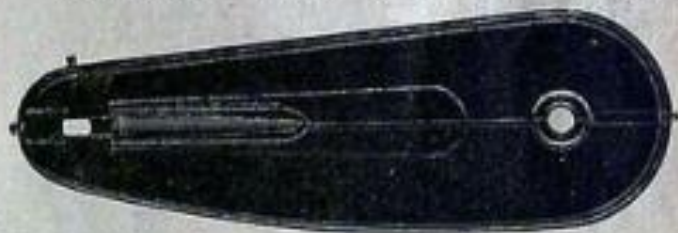
"HALYCON" BLACK CLOTH

Special Line

(Without colour stitching.)

No. 25/G19c/208 19 1/2" centres for 44 T. wheels each 3/11

25/G19d/208 19 1/2" 48 T. 3/11



"B.B." ORDINARY METAL GEAR CASE

Enamelled black, without plated disc.

No. 25/G72d/609 19 1/2" centres for 44 T. wheels each 10/-

25/G72g/609 19 1/2" 48 T. 10/-

25/G72h/609 20" 48 T. 10/-



GRADOMETER

With clip to fit on 1/4" handlebars, chromium-plated brightly-polished case with coloured indicator. This novel indicator registers the rise or fall of roads. Is useful for riders with variable gears and for ascertaining gradients of hills on club runs, road trials, etc.

No. 25/G100/204 each 3/6

HANDLEBARS AND BENDS

BEST QUALITY MAKE AND FINISH



"HALF DROPPED"
With 1" Forward Lug, 2" Drop, 2" Forward Bend, 1/2" top, 1/2" stem, 7" long.

Nickel Plated.
16" wide.

No. 25/H284L/301 each 4/7



"MARSH"

DROPPED LEVEL GRIP
With 1" Forward Lug, 5" Drop, 5" Forward Bend.

1/2" top, 1/2" stem, 5" long.
Chromium Plated. 15" wide.

No. 25/H293h/604 each 9/6

"NORTH ROAD" DROPPED

With 1" Forward Lug, 3" Drop, 2" Forward Bend, 1/2" top, 1/2" stem, 7" long.



Nickel Plated.

No. 25/H296n/301 18" wide each 4/7
No. 25/H296r/302 20" wide .. 4/8

Chromium Plated.

No. 25/H297n/403 15" wide each 6/5
No. 25/H297r/404 20" wide .. 6/6



"NORTH ROAD" REVERSIBLE

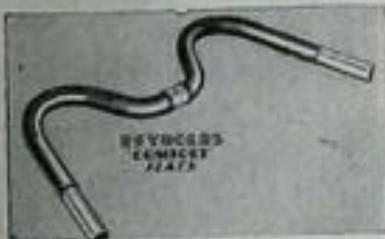
3" Raised or Dropped, 2" Forward Bend.

1/2" top, 1/2" stem, 7 1/2" long.
Chromium Plated.
15" wide.

No. 25/H305n/600 each 9/-

Any handlebar, except No. 25/H305n, can be supplied with Expander.

-/6 Extra on List Prices each -/8



REYNOLDS HIGH MANGANESE EXTRA LIGHT TAPER GAUGE

Light in weight, springy though very strong.

20 Gauge in Centre, tapering to 23 Gauge at ends.

"COMFORT," FLAT

Rough, 1/2" dia. with ferrule.

No. 25/H330n/206 18" wide each 3/8

With 3/8" dia. brazed-on plated ferrule.

Chromium Plated.

No. 25/H333n/405 18" wide each 6/7

Black Celluloid Covered.

1/2" dia. including covering.

No. 25/H334n/306 18" wide each 5/3

"REYNOLDS" ALUMINIUM RR.56

Aluminium Alloy Handlebar Bends.

"COMFORT" FLAT

1/2" dia. with 3/8" ferrule, 18" wide.

No.	Finish	each
25/H334xa/603	Polished	8/4
25/H334xb/609	Jet Black	11/7
25/H334xd/609	Gilt	11/7
25/H334xe/609	Silver	11/7
25/H334xf/609	Pale Blue	11/7
25/H334xg/609	Deep Blue	11/7
25/H334xh/609	Red	11/7
25/H334xk/609	Med.-Green	11/7



"COMFORT," SEMI-DROPPED

17" Wide, 1 1/2" Dropped.

With 3/8" dia. plated brazed-on ferrules.

Chromium Plated.

No. 25/H338m/405 each 6/7

Black Celluloid Covered.

1/2" dia. including covering.

No. 25/H339m/306 each 5/3

REYNOLDS ALUMINIUM RR.56 ALUMINIUM ALLOY HANDLEBAR BENDS

Comfort Semi-Dropped.

17" wide, 1 1/2" dropped, 1/2" dia. with 3/8" ferrule. Weight 8 1/2 oz.

Polished.

No. 25/H339xa/603 each 8/4



"RAISED"
With 1" Forward Lug, 2" Raised Bend, 1/2" top, 1/2" stem, 7" long, 18" wide.

Nickel Plated.

No. 25/H308n/303 .. each 4/10

Chromium Plated.

No. 25/H309n/403 .. each 6/5

"NORTH ROAD" RAISED

With 1" Forward Lug, 3" Raised, 2" Forward Bend.

1/2" top, 1/2" stem, 7" long.

Nickel Plated.
18" wide.

No. 25/H300n/301 ea. 4/7

20" wide.

No. 25/H300r/302 ea. 4/8

Chromium Plated.

18" wide.

No. 25/H301n/403 ea. 6/5

20" wide.

No. 25/H301r/404 ea. 6/5



"COMFORT," FULL DROPPED
16 1/2" Wide, 3 1/2" Drop.

With 3/8" dia. plated brazed-on ferrules.

Chromium Plated.

No. 25/H343L/406 each 6/10

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HANDLEBAR BENDS—continued
BEST QUALITY MAKE AND FINISH.



"LAUTERWASSER" PATTERN, FLAT
1" dia., 3 1/2" forward bend, Rough, fitted with 3/8" dia. brazed-on rough ferrule.

No. 25/H361h/106	15" wide	each	2/3
25/H361L/107	16" ..	..	2/4
25/H361m/107	17" ..	..	2/4
25/H361n/107	18" ..	..	2/4

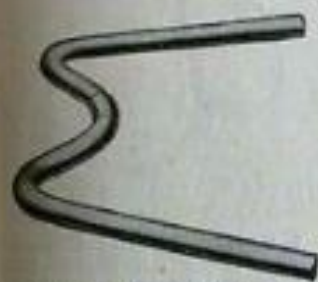
1" dia. fitted with 3/8" dia. brazed-on plated ferrules.

Chromium Plated.

No. 25/H363h/301	15" wide	each	4/8
25/H363L/302	16" ..	..	4/9

Black Celluloid Covered, 1" dia. including covering.

No. 25/H364h/210	15" wide	each	4/3
25/H364L/211	16" ..	..	4/4



"ANLAY" PATTERN, FLAT

1" dia., 2 1/4" forward bend, 22" wide. Rough, 1/2" dia., fitted with 3/8" dia. brazed-on rough ferrule.

No. 25/H381t/107	each 2/4
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1" dia., fitted with 3/8" dia. brazed-on plated ferrule.

No. 25/H383t/301	Chromium	each	4/7
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Black Celluloid Covered,

1" dia. including covering.

No. 25/H384t/211	each 4/4
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"TOUR DE FRANCE"

The Standard Bend of the Tour 3" forward bend, 6" drop, 16" wide.

1" dia., fitted with 3/8" dia. brazed-on ferrules.

No. 25/H411L/110	Rough	..	2/9
25/H411L/311	Chromium Plated	5/10	



"BAILEY" PATTERN, DROPPED
Rough, 1/2" dia. fitted with 3/8" dia. brazed-on ferrule.

No.	Wide.	Drop.	Forward Bend.	each
25/H401L/200	16"	6 1/2"	4"	3/-
25/H401m/200	17"	6 1/2"	4 1/2"	3/-
25/H401n/202	18"	6 1/2"	4 1/2"	3/3

Chromium Plated.

No.	Wide.	Drop.	Forward Bend.	each
25/H403h/311	15"	6 1/2"	4"	5/10
25/H403L/311	16"	6 1/2"	4"	5/11
25/H403m/400	17"	6 1/2"	4 1/2"	6/-
25/H403n/400	18"	6 1/2"	4 1/2"	6/-
25/H403p/401	19"	6 1/2"	4 1/2"	6/1
25/H403r/402	20"	6 1/2"	4 1/2"	6/3

Black Celluloid Covered 1/2" dia. including covering.

No.	Wide.	Drop.	Forward Bend.	each
25/H404h/302	15"	6 1/2"	4"	4/11
25/H404L/304	16"	6 1/2"	4"	5/-
25/H404m/304	17"	6 1/2"	4 1/2"	5/-

"REYNOLDS" ALUMINIUM RR 56 ALUMINIUM ALLOY HANDLEBAR BENDS POLISHED FINISH

"Bailey" Pattern, Dropped.
1" dia., 4" forward bend, 6 1/2" drop, with 3/8" dia. ferrule.
16" wide.

No. 25/H404xa/204	each 9/9
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"BULLA" PATTERN DROPPED HANDLEBAR BENDS

1 1/2" dia. fitted with 3/8" dia. brazed ferrules. 7" drop, 3 1/2" forward bend, 8" straight top.

Chromium Plated.

No. 25/H423L/402	16" wide	each	6/3
25/H423m/403	17" ..	..	6/4

Similar pattern to Bailey bends but with straight top.

"WYLD" PATTERN, DROPPED

Rough, 1/2" dia., 7" drop, 3 1/2" forward bend. Fitted with 3/8" dia. brazed-on rough ferrule.

No. 25/H596h/111	14 1/2" wide	each	2/11
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"GRANSLEY"

Rough, 1/2" dia. fitted with 3/8" dia. brazed-on rough ferrule.

No.	Wide.	Drop.	each
25/H416L/105	16"	2"	2/1
25/H416n/105	18"	2 1/2"	2/1



"SPEEN"
1" dia., 6" drop, 8" forward bend.

Rough, with 3/8" dia. brazed ferrule.

15" wide

No. 25/H351h/109	each 2/8
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Chromium Plated

No. 25/H353h/310	15" wide	each	5/9
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"SPRENCHLEY" FLAT

1 1/2" forward bend, 3" Straight Centre. 20" wide

Rough, 1/2" dia. fitted with 3/8" dia. brazed-on ferrule.

No. 25/H371r/106	each 2/3
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1" dia., fitted with 3/8" dia. brazed-on plated ferrule.

Chromium Plated

No. 25/H373r/301	each 4/7
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Black Celluloid Covered

1" dia. including covering.

No. 25/H374r/210	each 4/3
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"ALL ROUNDER"

2" forward, 4" flat centre, 1 1/2" Drop. 1" dia., fitted with 3/8" dia. brazed-on plated ferrule, 2" forward bend.

Rough.

No. 25/H391n/106	22" wide	each	2/1
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Chromium Plated.

No. 25/H393n/211	22" wide	each	4/5
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Black Celluloid Covered.

No. 25/H394n/211	22" wide	each	4/5
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"W" PATTERN FLAT

Rough, 1/2" dia. fitted with 3/8" dia. brazed-on ferrule, 1" forward bend, 5" flat centre.

No. 25/H501r/105	20 1/2" wide	each	2/2
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1" dia. fitted with 3/8" dia. brazed-on plated ferrules.

Chromium Plated.

No. 25/H503r/303	20 1/2" wide	each	4/11
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Black Celluloid Covered.

No. 25/H504r/209	20 1/2" wide	each	4/2
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HANDLEBAR BENDS—continued
BEST QUALITY MAKE AND FINISH.



"CONTINENTAL"
1" dia. with 3/8" dia. brazed ferrules
6 1/2" drop, 4" forward bend.

Rough.
No. 25/H406n/200 18" wide each 3/-
25/H406p/201 19" 3/2

Chromium Plated.
No. 25/H408n/310 18" wide each 5/9
25/H408p/311 19" 5/11
25/H408r/400 20" 6/-

Black Celluloid covered, 1" dia., including covering.
No. 25/H409n/390 18" wide each 4/6

"PELISSIER"

1" dia. with 3/8" dia. brazed ferrules,
13 1/2" wide, 5 1/2" drop, 3 1/2" forward.

Chromium Plated.
No. 25/H518L/310 each 5/9

"REYNOLDS" ALUMINIUM RR.56 ALUMINIUM ALLOY HANDLEBAR BENDS POLISHED FINISH

"Continental"

1" dia. with ferrule 6 1/2" drop, 4" forward bend.
No. 25/H409zn/705 18" wide each 9/10



FLAT (Ordinary)

Rough, 1" dia. fitted with 3/8" dia. brazed-
on rough ferrule.

No. 25/H431b/100 15" wide each 1/6
25/H431L/100 16" 1/6
25/H431m/101 17" 1/7
25/H431n/101 18" 1/7

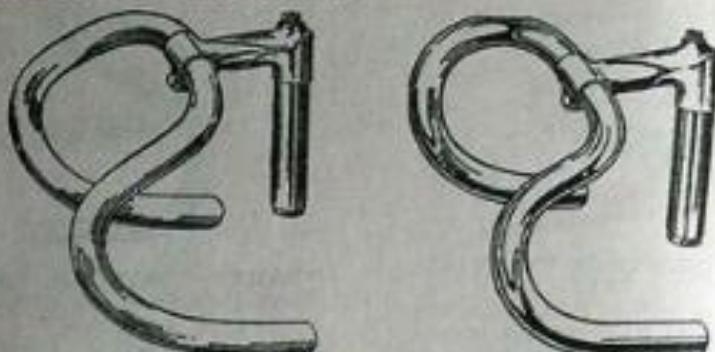
Chromium Plated.

No. 25/H433b/208 15" wide each 4/-
25/H433L/208 16" 4/-
25/H433m/209 17" 4/1
25/H433n/209 18" 4/1

Black Celluloid Covered 1" dia. including covering.

No. 25/H434g/204 14" wide each 3/6
25/H434h/204 15" 3/6
25/H434i/204 16" 3/6
25/H434m/206 17" 3/7
25/H434n/206 18" 3/7

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"A.V.A." SUPER DURA DURALUMIN HANDLEBAR BENDS
(Foreign.)

(Less Stems.)

Polished 3/8" with Ferrule.

"A. MAGNE"

16 1/2" wide, 6 1/2" drop, 3 1/2" forward.
No. 25/H415xm/600 each 8/-

"JEAN AERTS"

15" wide, 5 1/2" drop, 2 1/2" forward.
No. 25/H415xa/600 each 8/-

See page 143 for "A.V.A." Dura Handlebar Stems.



"CH. PELISSIER"

15 1/2" wide, 5 1/2" drop, 3 1/2" forward.
No. 25/H415xp/600 each 8/-

"A. LEDUCQ"

15" wide, 6 1/2" drop, 3 1/2" forward.
No. 25/H415xl/600 each 8/-



"BINDA" PATTERN DROPPED

1" dia. fitted with 3/8" dia. brazed ferrule.
5 1/2" forward bend, 5 1/2" drop with flat
straight centre.

Rough.

No. 25/H426L/109 16" wide each 2/8
25/H426n/110 18" 2/10

Chromium Plated.

No. 25/H428L/310 16" wide each 5/9
25/H428n/311 18" 5/11



"CIMALI" ALUMINIUM ALLOY HANDLEBAR BENDS

Highly Polished Finish. 1" diameter
without ferrule. (Continental make.)

CHAMPION DU MONDE BENDS

15 1/2" wide, 7" drop, 3" forward.
No. 25/H414xc/611 each 8/-



"TOUR DE ANGLETERRE" PATTERN DROPPED

1" dia. fitted with 3/8" dia. brazed ferrule.
4" forward bend, 7" drop with flat straight
centre.

Rough.

No. 25/H436L/202 16" wide each 3/3

Chromium Plated.

No. 25/H438L/401 16" wide each 6/1



"CIMALI" ALUMINIUM ALLOY HANDLEBAR BENDS

Highly Polished Finish. 1" diameter
without ferrule. (Continental make.)

TOUR DE FRANCE

17" wide, 6 1/2" drop, 3 1/2" forward.
No. 25/H414xl/611 each 8/-

Cimali Alloy Bends are highly polished
does not rub off and leave the bars
black when in use.

Very light and exceptionally strong.

NOTE.—These Bends are made in
1" diameter as the Continental rider prefers
this size, as it enables a better grip on
does not put quite such a strain on the
muscles as with 1 1/8" diameter.

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HANDLEBAR BENDS—continued
BEST QUALITY MAKE AND FINISH



"HIGHGATE" (Shallow Level Grip)
5½" drop, 5½" forward bend.
Rough, ½" dia. fitted with ⅜" dia. brazed-on rough ferrule.

No. 25/H446h/109	15" wide	each	2/8
25/H446L/110	16"	2/9	
25/H446m/110	17"	2/9	

Chromium Plated.

No. 25/H448g/311	14" wide	each	5/10
25/H448h/311	15"	5/10	
25/H448m/400	17"	6/-	
25/H448n/400	18"	6/-	
25/H448p/401	19"	6/2	
25/H448r/403	20"	6/4	

Celluloid Covered.

½" dia. including covering, fitted with ⅜" dia. brazed-on plated ferrule.

Black.

No. 25/H449g/301	14" wide	each	4/8
25/H449h/301	15"	4/8	
25/H449m/302	17"	4/9	
25/H449r/303	20"	4/11	

"HIGHGATE" EXTRA SHALLOW LEVEL GRIP HANDLEBAR BENDS

½" dia., 4" drop, 5½" forward bend. Rough with ⅜" dia. rough brazed-on ferrule.

No. 25/H451m/110	17" wide	each	2/9
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Chromium Plated with ⅜" dia. brazed ferrule.

No. 25/H453b/311	15" wide	each	5/10
25/H453m/400	17"	6/-	

Black Celluloid Covered, ½" including covering fitted with ⅜" dia. plated brazed-on ferrule.

No. 25/H454b/301	15" wide	each	4/8
25/H454m/302	17"	4/9	

"HIGHGATE" (Shallow Level Grip)

½" dia., 5½" drop, 5½" forward bend. With ⅜" dia. ferrule.

"REYNOLDS" ALUMINIUM RR.56 ALUMINIUM HANDLEBAR BENDS

Polished.			
15" wide, weight 9½ oz.			
No. 25/H449xa/701	.. ..	each	9/5
16" wide, weight 10 oz.			
No. 25/H449xa/703	.. ..	each	9/7
17" wide, weight 10½ oz.			
No. 25/H449xa/704	.. ..	each	9/9
10" wide.			
No. 25/H449xa/705	.. ..	each	9/11
19" wide.			
No. 25/H449xa/706	.. ..	each	10/-



"HIGHGATE" Standard
Nickel Plated, ½" dia. fitted with ⅜" dia. brazed-on plated ferrule.
15" wide, 7½" drop, 6" forward bend.

No. 25/H457h/305	each	5/2
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"ROVER"

½" dia., 8" drop, 5" forward bend. Rough, with ferrule.

No. 25/H531n/209	18" wide	each	2/7
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"MAJOR TAYLOR"

½" dia., 6" drop, 2½" forward bend. Fitted with ⅜" dia. brazed-on plated ferrule. Nickel Plated.

No. 25/H462m/209	18" wide	each	4/1
Chromium Plated.			
No. 25/H463n/302	18" wide	each	4/9

"SHIRLEY"

Similar pattern to Major Taylor. ½" dia., 6" drop, 3" forward bend. Nickel Plated, ½" dia. fitted with ⅜" dia. brazed-on plated ferrule.

No. 25/H542r/302	20" wide	each	4/9
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REAR TANDEM

½" dia., 5½" drop, 6½" forward bend, 9" straight top. Fitted with ⅜" dia. brazed-on ferrule.

No. 25/H528p/311	19½" wide	each	5/10
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"Reynolds" Aluminium is 25% stronger than H.M. and less than one-third its weight, and will appeal to the "lightweight" cyclists. These colourings are not coatings, but the actual surface of the metal, dyed and at the same time oxidized, which forms a perfect protection against any corrosion.



"LAUTERWASSER" PATTERN DROPPED

½" dia., 3½" drop, 5½" forward bend. Rough ½" dia., fitted with ⅜" dia. brazed-on rough ferrule.

No. 25/H466h/106	15" wide	each	2/3
25/H466L/107	16"	2/4	
25/H466m/107	17"	2/4	
25/H466n/107	18"	2/4	

Chromium Plated.

No. 25/H468h/303	15" wide	each	4/11
25/H468L/304	16"	5/-	
25/H468m/305	17"	5/1	
25/H468n/305	18"	5/1	

Black Celluloid Covered, ½" dia., including covering.

No. 25/H469h/210	15" wide	each	4/3
25/H469L/211	16"	4/4	
25/H469m/211	17"	4/4	
25/H469n/211	18"	4/4	

Ivory White Celluloid Covered, ½" dia. including covering.

No. 25/H469hw/210	15" wide	each	4/3
25/H469Lw/211	16"	4/4	

"LAUTERWASSER" PATTERN SHALLOW DROPPED

½" dia., 2" drop, 5½" forward bend. Fitted with ⅜" dia. brazed-on ferrules. 15" wide.

Chromium Plated.			
No. 25/H468hu/303	.. ..	each	4/11
Black Celluloid Covered, ½" dia., including covering.			
No. 25/H469hu/210	.. ..	each	4/3

"REYNOLDS" ALUMINIUM RR.56 ALUMINIUM ALLOY HANDLEBAR BENDS

POLISHED AND ANODIC COLOURING

"Lauterwasser" Pattern Dropped, ½" dia., 5½" forward bend, 3" drop, with ⅜" dia. ferrule.

15" wide.			
No.			
25/H469xa/607	Polished	each	8/9
25/H469xb/901	Jet Black	..	12/-
25/H469xc/901	Gold	..	12/-
25/H469xd/901	Silver	..	12/-
25/H469xe/901	Pale Blue	..	12/-
25/H469xf/901	Deep Blue	..	12/-
25/H469xg/901	Red	..	12/-
17" wide.			
No. 25/H469xa/609	Polished	each	9/-

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HANDLEBAR BENDS—continued

BEST QUALITY MAKE AND FINISH



"KRAMER" ORIGINAL BEND

Adopted by all the Stars of the Sprint.
5½" forward bend, 9" drop, 16" wide, ½" dia., fitted with ½" dia. brazed on ferrule.
No. 25/H536L/111 Rough .. each 2/10
25/H538L/377 Chromium .. 5/11



"RIBBIT"

½" dia., 8½" drop, 5" forward bend.
Rough, ½" dia. fitted with ½" dia. brazed-on rough ferrule.
No. 25/H551k/200 15½" wide each 3/-
Chromium Plated.
No. 25/H553k/400 15½" wide each 6/-
Black Celluloid Covered.
½" dia., including covering.
No. 25/H554k/304 15½" wide each 5/-



"C.-B." PATTERN DROPPED HANDLEBAR BENDS

(Also known as Shawbury Pattern.)

3½" drop, 6" forward bend.
Rough, ½" dia., fitted with ½" dia. brazed-on rough ferrule.
No. 25/H621h/109 15" wide each 2/8
25/H621L/109 16½" 2/8
Chromium Plated.
No. 25/H623h/307 15" wide each 3/4
Black Celluloid Covered, ½" dia., including covering, ½" Nickel Plated ferrule.
No. 25/H624h 301 15" wide each 4/8
25/H624L 301 16½" 4/8

For "HELP-IN-HAND" FRONT WHEEL DRIVE see page 127.

HANDLEBAR STEM EXPANDERS

HANDLEBAR STEM EXPANDERS

To fit ½" tube.
Complete with cones and washers.
Nickel Plated.

Good Quality, ½" diameter.
No. 25/H648b/31 6" long each -/6
25/H648b/309 .. per doz. —
25/H648e/31 8" .. each -/6
25/H648e/309 .. per doz. —
25/H648b/4 10" .. each -/6
25/H648b/308 .. per doz. —
25/H648n/4 12" .. each -/6
25/H648n/309 .. per doz. —

Chromium Plated.
No. 25/H649b/4 6½" long each -/6
25/H649e/4½ 8½" -/7
25/H649b/5 10" -/8

Complete with cone less washer ½" diameter. To fit 1" tube.

Chromium Plated.
No. 25/H650e/W 8½" long each -/9



HANDLEBAR STEM EXPANDERS

To fit ½" tube.

Complete with cones and washers.

Nickel Plated (Foreign).

Special Line, ½" diameter.

No. 25/H651e/2½ 8½" long each -/4
25/H651e/201 .. per doz. —
25/H651e/2400 .. per gross —



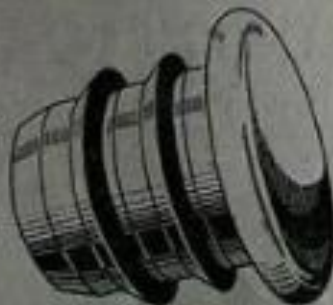
HANDLEBAR BEND FERRULES

For brazing on ½" dia. handlebars to ½" outside diameter.

No. 25/H645c/103 "B.B.L." 400 7/8

"CHATER LEA" SPLIT FERRULES (No. 1460)

No. 25/H645k/106 .. per doz. 7/8



"SHOCKSTOPS" HANDLEBAR PLUGS (Regd. Design. Pat. Appl. For) Colors: BLACK, RED, BLUE, CREAM, GREEN

"SHOCKSTOP" RUBBER HANDLEBAR END PLUGS OR STOPS

Packed in display cartons of 12 pairs. One pair on showcard, eleven pairs wrapped in cellophane.

No. 25/H646s/400 Black .. doz. pairs 6/-
25/H646t/400 Red 6/-
25/H646w/400 Blue 6/-
25/H646x/400 Cream 6/-
25/H646z/400 Green 6/-

HANDLEBAR MUFFS SEE PAGE 144



DUNLOP HANDLEBAR END STOPS

Black Rubber End Stops or Plugs for handlebars or bends. Fitted with rustless screw, washer and threaded plate to expand rubber when inserted in end of bar and so prevent pulling out.

Packed on show cards of 6 pairs.

No. 25/H646/300 per card 4/8

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HANDLEBAR STEMS



"B.B.L." HANDLEBAR STEMS
CHROMIUM PLATED

1/2" dia. to suit bends with 3/8" dia. ferrules. Fitted with plated bolts, 1/2" x 26 T. 6 1/2" long.

Their design and appearance are in keeping with present lightweight cycle requirements.

Fitted with double bolt clip, especially suitable for celluloid covered bends.

Without Expander Bolt.			
No. 25/H673c/206	1 1/2" forward	.. ..	each 3/9
25/H673d/206	2"	.. ..	.. 3/9
With Expander Bolt.			
No. 25/H673n/300	1 1/2" forward	.. ..	each 4/6
25/H673p/300	2"	.. ..	.. 4/6
2 1/4" Forward Curved.			
With Expander Bolt.			
No. 25/H676b/300	.. ..	.. ..	each 4/6
Without Expander Bolt.			
No. 25/H676e/306	.. ..	.. ..	each 3/9

"B.B.L."
QUICK RELEASE
ADJUSTABLE
HANDLEBAR
STEMS



1/2" dia., complete with lug, bolt, nut and washers, and two bush pieces to suit bends with 3/8" dia. ferrules.

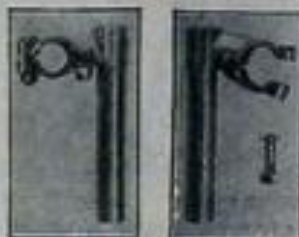
Chromium Plated.			
With 1" extended forward lug.			
Without Expander Bolt.			
No. 25/H681c/209	.. ..	.. ..	each 3/9
With Expander Bolt.			
No. 25/H681d/301	.. ..	.. ..	each 4/3
With 2" extended forward lug.			
Without Expander Bolt.			
No. 25/H681g/211	.. ..	.. ..	each 3/11
With Expander Bolt.			
No. 25/H681h/304	.. ..	.. ..	each 4/6

"B.B.L." ADJUSTABLE HANDLEBAR STEMS
Chromium Plated. With lug, bolt and nut with forward extension. To suit bends with 3/8" dia. ferrules.

SPECIAL LINE WITH FLUSH JOINTS

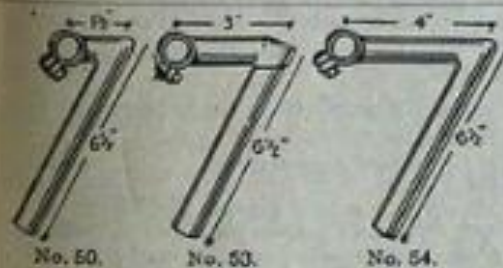
1 1/2" forward with 1/2" stem for Cycle.

Without Expander Bolt.			
No. 25/H683p/207	.. ..	.. ..	each 3/10
With Expander Bolt.			
No. 25/H683r/300	.. ..	.. ..	each 4/6



1/2" dia. 1 1/2" forward with Hinged Pattern Lug for quick and easy release of Handlebar Bends. Very neat.

Without Expander Bolt.			
No. 25/H683b/304	.. ..	.. ..	each 5/-
2 1/4" forward with 1" stem for Tandem.			
Without Hinged Lug.			
Without Expander Bolt.			
No. 25/H683k/306	.. ..	.. ..	each 5/3



"ROSA" HANDLEBAR STEMS

1/2" dia. to suit bends with 3/8" dia. ferrules. Fitted with Bolt and Nut, 1/2" x 26 T.

Their design and appearance are in keeping with present lightweight cycle requirements.



Chromium Plated. Without Expander Bolt.			
No. 25/H684h/109	Straight Pattern, 6 1/2" long (No. 51)	.. ..	each 2/6
25/H685a/204	1 1/2" forward, 6 1/2" long (No. 50)	.. ..	.. 3/6
25/H685p/204	2" .. 6 1/2" .. (No. 52)	.. ..	.. 3/6
25/H685r/204	3" .. 6 1/2" .. (No. 53)	.. ..	.. 3/6
25/H685e/210	4" .. 6 1/2" .. (No. 54)	.. ..	.. 4/3

2 1/4" Forward Curved. 6 1/2" long.			
Without Expander Bolt. (No. 57.)			
No. 25/H737p/200	Chromium Plated	.. ..	.. each 3/-
With Expander Bolt. (No. 57E.)			
No. 25/H737t/206	Chromium Plated	.. ..	.. each 3/9
For Tandem. 1" dia. stem. 1 1/2" forward. 6 1/2" long to suit 3/8" dia. ferrules. (No. 58).			
Without Expander Bolt.			
No. 25/H746r/206	Chromium Plated	.. ..	.. each 3/9
With Expander Bolt.			
No. 25/H746x/211	Chromium Plated	.. ..	.. each 4/5

Chromium Plated. With Expander Bolt.			
No. 25/H686p/209	2" forward, 6 1/2" long (No. 52)	each 4/2

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HANDLEBAR STEMS—continued

ADJUSTABLE HANDLEBAR STEMS

8" long x 1/2" to suit bends with 1/2" dia. ferrules.
With Lug Bolt and Nut.
With 1" Extended Forward Lug.

"A. & P." With Flush Joints. No. 1,

Chromium Plated. 1/2" Stem.

No. 25/H700c/208 Without Expander Bolt each 4/-
25/H700d/301 With 4/8

For HANDLEBAR MUFFS
see page 144.



"B.B.L."

"A. & P."

ADJUSTABLE HANDLEBAR STEMS

8" long x 1/2" to suit bends with 1/2" dia. ferrules.
With Lug Bolt and Nut.
With 1" Extended Forward Lug.

"A. & P." With Flush Joints. No. 1,

Chromium Plated. 1" stem.

No. 25/H700k/300 Without Expander Bolt each 4/-

"B.B.L."

Nickel Plated. 1/2" Stem.

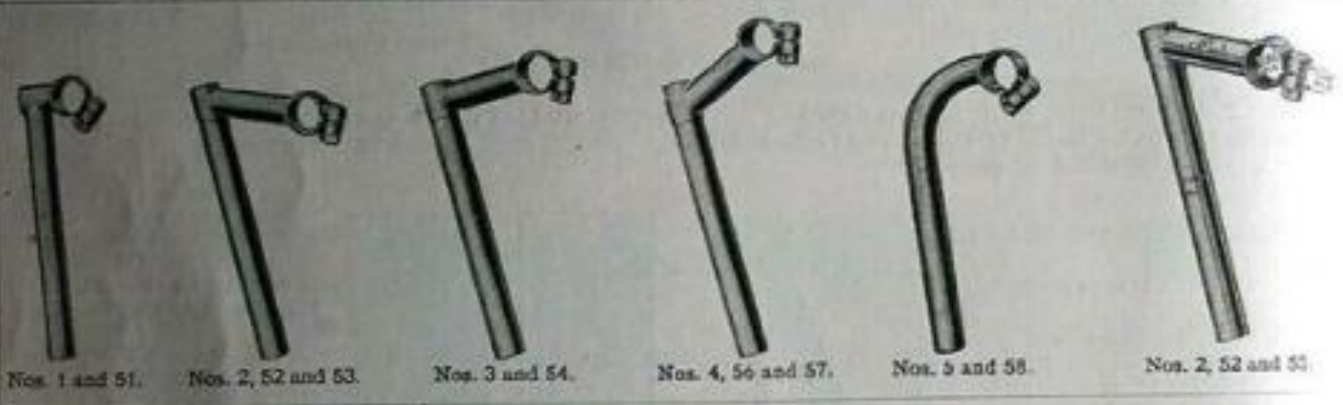
No. 25/H701a/199 Without Expander Bolt each 2/-

25/H701b/200 With 3/-

Chromium Plated. 1/2" Stem.

No. 25/H701c/200 Without Expander Bolt each 3/-

25/H701d/203 With 3/-



Nos. 1 and 51.

Nos. 2, 52 and 53.

Nos. 3 and 54.

Nos. 4, 56 and 57.

Nos. 5 and 58.

Nos. 2, 52 and 53.

LIGHTWEIGHT ADJUSTABLE HANDLEBAR STEMS

These Stems are built on an entirely new principle. They are made wholly from tube without any malleable castings or sheet parts. To facilitate fitting, the stem lugs are machined 1" and with each stem two packing pieces or liners are supplied to accommodate standard 1/2" ferrules on bends. By this arrangement they are easily fitted up without damage to plating or celluloid covering of handlebar bends.

All Chromium Plated, 1/2" Stem, with Lug Bolt and Nut.

"A. & P." "KROMO" (CHROME MOLYBDENUM)

With 1" Extended Forward Lug, No. 51.

No. 25/H702c/311 Without Expander Bolt .. each 5/10

With 2" Dropped Extended Forward Lug, No. 52.

No. 25/H707c/407 Without Expander Bolt .. each 6/10

With 3" Dropped Extended Forward Lug, No. 53.

No. 25/H709c/407 Without Expander Bolt .. each 6/10

With 2" Extended Forward Lug, No. 54.

No. 25/H711c/407 Without Expander Bolt .. each 6/10

25/H711d/500 With 7/6

With 2" Raised Extended Forward Lug, No. 56.

No. 25/H720d/500 With Expander Bolt .. each 7/6

With 3" Raised Extended Forward Lug, No. 57.

No. 25/H721d/500 With Expander Bolt .. each 7/6

With Curved Extended Forward Lug, No. 58.

No. 25/H735b/308 Without Expander Bolt .. each 5/6

25/H739b/406 With 6/9

REYNOLDS "H.M." (HIGH MANGANESE)

With 1" Extended Forward Lug, No. 1.

No. 25/H702p/311 Without Expander Bolt .. each ..

25/H702r/405 With

With 2" Dropped Extended Forward Lug, No. 2.

No. 25/H707p/409 Without Expander Bolt .. each ..

With 3" Dropped Extended Forward Lug, No. 2.

No. 25/H709p/409 Without Expander Bolt .. each ..

25/H709r/503 With

With 2" Extended Forward Lug, No. 3.

No. 25/H711r/503 With Expander Bolt .. each ..

With 3" Extended Forward Lug, No. 3.

No. 25/H712r/503 With Expander Bolt .. each ..

With 2" Raised Extended Forward Lug, No. 4.

No. 25/H720r/503 With Expander Bolt .. each ..

With 3" Raised Extended Forward Lug, No. 4.

No. 25/H721r/503 With Expander Bolt .. each ..

With Curved Extended Forward Lug, No. 5.

No. 25/H735p/311 Without Expander Bolt .. each ..

25/H739p/409 With

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HANDLEBAR STEMS—continued

ADJUSTABLE HANDLEBAR STEMS.

8" long x 1/2" to suit bends with 3/8" ferrules, with lug bolt and nut. With Dropped Extended Lug.

CHROMIUM PLATED

Without Expander Bolt.

"A. & P."

With flush joints. No. 2—2" Forward.

- No. 25/H703c/302 1/2" Stem. .. each 4/9
- 25/H703k/306 1" 5/3

No. 3—3" Forward. 1/2" Stem.

- No. 25/H704c/302 1/2" Stem. .. each 4/9
- 25/H704k/306 1" 5/3

"B.B.L."

2" Forward. 1/2" Stem.

- No. 25/H706c/203 each 3/4

3" Forward.

- No. 25/H708c/203 each 3/4



"B.B.L."

"A. & P."

With Expander Bolt.

"A. & P."

With flush joints. No. 2—2" Forward.

- No. 25/H703d/307 1/2" Stem. each 5/5

No. 3—3" Forward.

- No. 25/H704d/307 1/2" Stem. each 5/5

"B.B.L."

2" Forward. 1/2" Stem.

- No. 25/H706d/206 each 3/9

3" Forward.

- No. 25/H708d/206 each 3/9



"A. & P." SPECIAL CONTINENTAL HANDLEBAR STEMS

7" long x 1/2" dia., 3 1/2" forward drop extension. Chromium Plated. Without Expander Bolt.

- No. 25/H705/309 each 5/8



"A. & P." ADJUSTABLE HANDLEBAR STEM

8" long x 1/2" dia. stem.

Chromium Plated. No. 5.

3" Extended. Without Expander Bolt.

- No. 25/H710c/302 each 4/9



ADJUSTABLE HANDLEBAR STEMS

5" long overall x 1/2" to suit 1" bends, fitted with expander bolt.

"A. & P." 1" Forward.

Chromium Plated.

- No. 25/H724d/205 each 3/7

"A. & P." 3" Dropped Extended Lug.

Nickel Plated.

- No. 25/H728b/211 each 4/4

Chromium Plated.

- No. 25/H728d/304 each 5/-

"A. & P." CURVED HANDLEBAR STEM

8" long. With lug bolt and nut.

With 3" extension x 1/2" stem.

With Flush Joints, No. 8.

Nickel Plated

- No. 25/H736a/205 each 3/7

Chromium Plated.

- No. 25/H736b/210 each 4/3

With 4" extension x 1/2" stem.

Nickel Plated.

- No. 25/H736e/205 each 3/7

Chromium Plated.

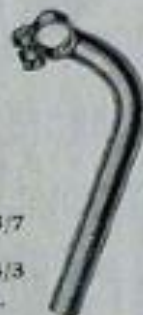
- No. 25/H736f/210 each 4/3

"B.B.L."

With 3" extension x 1/2" stem.

Chromium Plated.

- No. 25/H736m/208 each 3/11



"A. & P." CURVED HANDLEBAR STEM

8" long, with lug bolt and nut, fitted with expander bolt. With Flush Joints. No. 8X.

With 3" extension x 1/2" stem.

Chromium.

- No. 25/H738b/309 each 5/7

With 3" extension x 1" stem.

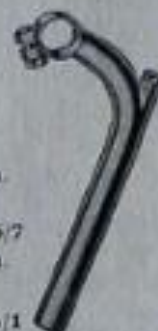
Chromium.

- No. 25/H738d/401 each 6/1

With 4" extension x 1/2" stem.

- No. 25/H738e/303 Nickel each 4/10

- 25/H738f/309 Chromium .. 5/7



"CAM"

SPECIAL ADJUSTABLE HANDLEBAR STEM

7" long x 1/2" dia. with 5" round extension. With Dorned Ends.

Complete with adjustable clip, bolts and nuts.

Fitted with Expander Bolt.

- No. 25/H740b/303 Chromium each 4/11

Without Expander Bolt.

- No. 25/H740a/300 Chromium each 4/6

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HANDLEBAR STEMS—continued



"ALL ROUNDER" UNIVERSAL ADJUSTABLE STEM
(Patent applied for.)

Any position, any angle, a micrometer adjustment, from a 1° to 3° forward, rise or drop position.

The last word in adjustable stem device.

Fitted with Expander Bolt.

Chromium.

No. 25/H740m/410 .. each 7/3

Without Expander Bolt.

Nickel.

No. 25/H740p/310 .. each 5/9



CONSTRUCTOR CURVED STEM

"CONSTRUCTOR" QUICK ADJUSTABLE HANDLEBAR STEM

1/2" dia. Stem, complete with Lug Bolt and Nut to suit bends with 3/8" dia. ferrules. Curved. Chromium plated.

Without Expander Bolt.

No.		each
25/H770b/303	1 1/2" Extended	4/5
25/H770d/304	2 1/2" Extended	4/6
25/H770f/305	3 1/2" Extended	4/7



"CHATER LEA" ADJUSTABLE HANDLEBAR STEM WITH EXTENDED LUG

9" long, to suit bends with 3/8" dia. ferrule with big bolts and nuts.

Chromium Plated.

Without Expander Bolt.

With 1/2" Stem. No. 1458-1.

No. 25/H756c/603 .. each 8/3

With 1" Stem. No. 1458-2.

No. 25/H756m/607 .. each 8/10

"H.B.L." ADJUSTABLE HANDLEBAR STEMS
With Lug Bolt and Nut. To suit Bend with 3/8" dia. ferrule.

With 1/2" stem for cycle.

Special cut-away and fish-tailed design Lugs.

Continental Style.

Chromium Plated.

No. 25/H682d/303 2 1/2" Forward each 4/3

25/H682f/303 3 1/2" Forward .. 4/3



"A. & P."

ADJUSTABLE HANDLEBAR STEM
6" long x 1/2" dia. with 7/8" square extension, complete with adjustable clip, bolts and nuts.

Fitted with Expander Bolt.

No. 25/H742b/600 Chromium each 7/6

Without Expander Bolt.

No. 25/H742d/407 Chromium each 6/10

1" Stem for Tandem. Without Expander.

No. 25/H742dd/411 Chromium each 7/4



"A. & P." HANDLEBAR STEM AND SEAT PILLAR

Combined for Tandem.

Complete with adjustable clip, bolts and nuts.

With Round Ends for both handlebar clip and saddle clip. Nickel plated.

12" long x 1 1/4" dia.

No. 25/H744t/605 .. each 8/2



Webb Type.

"A. & P."

ADJUSTABLE HANDLEBAR STEM
6 1/2" long x 1/2" dia., with 7/8" square extension. Domed End fitted with reinforced steel plate. Fitted with expander bolt and nut, complete with adjustable clip, bolts and nuts.

Fitted with Expander Bolt.

No. 25/H742f/510 Chromium each 8/11

Without Expander Bolt.

No. 25/H742g/511 Chromium each 8/11

1" Stem for Tandem. Without Expander.

No. 25/H742h/512 Chromium each 8/11



"A. & P." HANDLEBAR STEM AND SEAT PILLAR

Combined for Tandem.

12" long x 1 1/4" dia., complete with adjustable clip, bolts and nuts. With Square End for handlebar clip and Round End for saddle clip.

No. 25/H744a/410 Nickel each 7/4

25/H744e/509 Chromium .. 8/2



Short Wheelbase

THE "BREWER" REAR TANDUM ADJUSTABLE HANDLEBAR STEM
(Less Handlebar Clip).

To clip on front seat pin either 1 1/2" or 1 3/4". Fitted with spare lamp bulb holder at top of stem.

Chromium Plated. Weight 10 oz.

No. 25/H748c/403 .. each 6/6

This special stem also gives a better position for both capes, as they drop down between the bars and saddle.

For Short Wheelbase Tandems.

Chromium plated (Steel).

No. 25/H748e/302 .. each 4/6

Will fit any tandem, but cutting off the rear part of the T Seat Pin the same double clip is used.

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HANDLEBAR STEM LUGS—continued



"CHATER LEA" BACK TANDEM HANDLEBAR CLIP

$\frac{1}{2}$ " for T pattern seat pillar and $\frac{1}{2}$ " handlebar, No. 1041.

Nickel Plated,
No. 25/H820a/211 each 3/10
Chromium plated,
No. 25/H820b/305 each 4/6



BACK TANDEM HANDLEBAR CLIP "CHATER LEA,"

No. 1041-1.

$1\frac{1}{2}$ " for Straight or L pattern seat pillar and $\frac{1}{2}$ " handlebar.

Nickel Plated,
No. 25/H821a/211 each 3/10

Chromium Plated,
No. 25/H821b/305 each 4/6



"CAM" ADJUSTABLE HANDLEBAR STEM DOUBLE CLIP

Profiled all over. Weight 5 oz. Size, $\frac{3}{8}$ " x $\frac{1}{2}$ ", complete with two Bolts and Nuts.

Chromium Plated.
No. 25/H822b/108 each 2/6



"A. & P." ADJUSTABLE HANDLEBAR STEM CLIP

With two bolts and nuts to fit square extension forward stem, and to take handlebar bent fitted $\frac{3}{8}$ " dia. ferrules.

Nickel Plated,
No. 25/H823a/111 each 2/10
Chromium Plated,
No. 25/H823b/203 each 3/4



"CHATER LEA" HANDLEBAR CLIP LUG

With bolts and nuts. To suit 1" dia. Box Carrier, No. 1423.

Tricycle Handlebar.
No. 25/H824a/304 per pair 4/5
Bolt and nut only, Nickel Plated,
No. 25/H824d/41 each -/51

"BRAMPTON"

Size, $1\frac{1}{8}$ " x $\frac{3}{8}$ ".

Chromium plated. (No. 555640.)
No. 25/H818b/202 each 2/11



"B.B.L." ADJUSTABLE FORWARD STEM LUG

For $\frac{1}{2}$ " Stem, to suit bends with $\frac{3}{8}$ " diam ferrules, with Bolt and Nut.

3" Dropped.
No. 25/H830r/11 each 1/3
3" Right Angle.
No. 25/H830d/11 each 1/3
3" Raised.
No. 25/H830k/11 each 1/3



"B.B.L." ADJUSTABLE 1" FORWARD STEM LUG

For $\frac{1}{2}$ " Stem, to suit bends with $\frac{3}{8}$ " diam. ferrules, with Bolt and Nut.

No. 25/H830a/9 each 1/2



"CHATER LEA" ADJUSTABLE FORWARD STEM LUG

$1\frac{1}{2}$ " Forward.

To suit bends with $\frac{3}{8}$ " diam. ferrules, with Nickel Plated Bolt and Nut.

For $\frac{1}{2}$ " Stem. (No. 756.)
No. 25/H835a/107 each 2/1
For 1" Stem. (No. 756/4.)
No. 25/H835c/107 each 2/1



"ROSA" HANDLEBAR STEM LUGS

Carefully machined on jigs, and true to size, so as to make clean and easy building up. Polish all over. To suit bends with $\frac{3}{8}$ " diam. ferrules, to telescope $\frac{1}{2}$ " x 16 or 17 gauge tube. The light cast stem Lugs made, and pleasing in appearance.

Complete with Chromium Plated Bolt and Nut.

No. 25/H832a/10	For any length extension (A)	each
25/H832b/8	Elbow extension for above 80° (B) .. .. .	.. .. .
25/H832c/11	With $1\frac{1}{2}$ " extension 75° (C) .. .. .	.. .. .
25/H832d/100	With 2" oval shape extension 70° (D) .. .. .	.. .. .
25/H832e/100	With 3" oval shape extension 75° (E) .. .. .	.. .. .
25/H832h/106	Push on end cap $\frac{1}{2}$ " (H) .. .. .	.. .. .

"CHATER LEA" ADJUSTABLE EXTENDED FORWARD STEM LUG

(No. 756-3.)

3" Forward.

For $\frac{1}{2}$ " stem, to suit bends with $\frac{3}{8}$ " diam. ferrules, with Nickel Plated Bolt and Nut.

No. 25/H835r/108 each 2/3

"BROOKE'S" CYCLE HANDLEBAR MUFFS

Black Rubber Cloth, lined with a special needle loom felt. Makes them exceedingly warm and comfortable; also waterproof. Plenty of room is allowed for brake-work, etc. Can easily be fitted in a few moments.

No. 25/H860h/204 per pair 3/6



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HEAD CLIPS, ETC.



BOX PATTERN HEAD CLIPS

With hollowed bolt and nut.
Solid Pattern (not Pressed).

"B.B.L." BEST QUALITY

Standard Size $\frac{1}{4}$ " for $\frac{1}{8}$ " balls.

No. 25/H900a/101	Nickel	..	each 1/8
25/H900a/1206			per doz. —
25/H900b/103	Chromium	..	each 1/10
25/H900b/1400			per doz. —
25/H900c/11	All Black	..	each 1/3
25/H900c/1006			per doz. —

Size 1" full, for $\frac{1}{2}$ " balls.

No. 25/H900d/101	Nickel	..	each 1/8
25/H900d/1206			per doz. —

"B.S.A." GENUINE

Size $\frac{1}{4}$ " for $\frac{1}{8}$ " balls.

No. 25/H904b/211	Chromium	..	each 3/10
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"BRAMPTON"

Standard size $\frac{1}{4}$ " for $\frac{1}{8}$ " balls. For Cycle.

No. 25/H905b/1408	Chromium (855106)	doz.	19/6
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Size 1" full, for $\frac{1}{2}$ " balls. For Cycle.

No. 25/H906b/1408	Chromium (855101)	doz.	19/6
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Size 1" full, with unseated loose ball race and hardened, for $\frac{1}{2}$ " balls. For Carrier Cycle.
Plain bolt and nut.

No. 25/H906t/108	Chromium (855104)	each	2/2
25/H906m/108	Black (858104)	..	2/-

Size $1\frac{1}{2}$ " with inserted race, for $\frac{1}{2}$ " balls. Tandem.

No. 25/H906r/200	Chromium (855620)	each	2/8
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"CHATER LEA"

Open Pattern.

With plain nut and bolt.

Size 1" full, for $\frac{1}{2}$ " balls. No. 1584.

No. 25/H918a/302	Nickel	..	each 4/2
25/H918b/305	Chromium	..	4/6

Size 1" full, for $\frac{1}{2}$ " balls. No. 1080-3.

No. 25/H918h/308	Chromium	..	each 4/10
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Size $1\frac{1}{2}$ " for $\frac{1}{2}$ " balls, for Tandem. No. 1082-1.

No. 25/H918p/306	Nickel	..	each 4/8
25/H918r/309	Chromium	..	5/-



OPEN PATTERN HEAD CLIPS

With plain bolt and nut.

"B.B.L." BEST QUALITY

Solid Pattern (not Pressed).

Size 1" full, for $\frac{1}{2}$ " balls.

Chromium.			
No. 25/H901b/102	..	each	1/9
25/H901b/1300		per doz.	—

Size $\frac{1}{4}$ " for $\frac{1}{8}$ " balls for cycles.

Nickel.			
No. 25/H910a/100	..	each	1/6
25/H910a/1109		per doz.	—

"B.B.L." Best quality.
Nickel Plated.
Head Clip Bolts and Nuts.
Boxes containing 3 dozen assorted
Also suitable for Seat Lugs.
No. 25/H939w/400 .. per box 6/-

"BRAMPTON"

With plain bolt and nut.

Standard size $\frac{1}{4}$ " for $\frac{1}{8}$ " balls.

Chromium (855100).			
No. 25/H915b/1402	per doz.	19/-	

Black (858100).			
No. 25/H915c/1311	per doz.	18/6	



HEAD CLIP BOLTS AND NUTS

Standard size, with hollowed body.

"B.B.L." Best quality.

Nickel Plated.			
No. 25/H930a/200	..	per doz.	3/-
25/H930a/2306		per gross	—

Chromium Plated.			
No. 25/H930b/203	..	per doz.	3/6

All Black.			
No. 25/H930c/200	..	per doz.	3/-

"B.S.A." GENUINE.

Chromium.			
No. 25/H931b/500	..	per doz.	6/7



HEAD CLIP BOLTS AND NUTS

Also suitable for Seat Lugs. $\frac{1}{2}$ " diameter

"B.B.L." Medium Quality.

Nickel Plated.

No. 25/H937e/100	$1\frac{1}{2}$ " long	per doz.	1/6
25/H937e/1103		per gross	—

"B.B.L." All Black.

Best Quality.

No. 25/H938e/104	$1\frac{1}{2}$ " long	per doz.	2/-
25/H938e/1503		per gross	—

Nickel Plated.

No. 25/H939e/103	$1\frac{1}{2}$ " long	per doz.	2/-
25/H939e/1406		per gross	—

25/H939e/103	$1\frac{1}{2}$ " long	per doz.	2/-
25/H939e/1406		per gross	—

25/H939g/103	$1\frac{1}{2}$ " long	per doz.	2/-
25/H939g/1406		per gross	—

25/H939k/105	$1\frac{1}{2}$ " long	per doz.	2/3
25/H939k/1606		per gross	—

25/H939m/106	$1\frac{1}{2}$ " long	per doz.	2/3
25/H939m/1706		per gross	—

25/H939p/108	2" long	per doz.	2/6
25/H939t/204	2 $\frac{1}{2}$ "	..	3/6

Chromium Plated.

No. 25/H940c/108	$1\frac{1}{2}$ " long	per doz.	2/6
25/H940c/1906		per gross	—

25/H940e/108	$1\frac{1}{2}$ " long	per doz.	2/6
25/H940e/1906		per gross	—

25/H940g/109	$1\frac{1}{2}$ " long	per doz.	2/8
25/H940g/2006		per gross	—

25/H940k/111	$1\frac{1}{2}$ " long	per doz.	2/9
25/H940k/2206		per gross	—

Size $\frac{1}{2}$ " dia. $1\frac{1}{2}$ " long x 26 thread to suit Brampton Tandem Head Clips.

No. 25/H940p/500	per doz.	8/-
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"Chater Lea."

Size $1\frac{1}{2}$ " x $\frac{1}{2}$ " for Cycle.

No. 25/H941a/402	Nickel Plated	doz.	5/6
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Chromium Plated.

No. 25/H941b/502	..	doz.	7/-
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Size $1\frac{1}{2}$ " x $\frac{1}{2}$ " for Tandem.

No. 25/H941p/406	Nickel Plated	doz.	6/-
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Chromium Plated.

No. 25/H941r/508	..	doz.	7/6
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STEERING HEAD LOCKS

"B.B.L." Best quality.

Nickel Plated.

No. 25/H960a/302	..	per doz.	4/9
25/H960a/3700		per gross	—

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HEAD TUBE DIES



HEAD TUBE DIE HOLDER AND GUIDE

Made with taper cutting edges for screwing head tubes.

Holder Complete with Die

No. 25/H1246a/1600	Size $\frac{11}{16}$ " x 30 thread	.. ..	each 24/-
25/H1246d/1600	.. 1" x 24 .. ..	.. ..	24/-
25/H1246t/1600	.. 1" x 26	24/-

Tandem Size.

No. 25/H1246k/2100	Size $1\frac{1}{4}$ " x 26 thread	each 31/6
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Extra Dies.

No. 25/H1246p/809	Size $\frac{11}{16}$ " x 30 thread	each 10/2
25/H1246a/809	.. 1" x 24	10/2
25/H1246t/809	.. 1" x 26	10/2

Tandem Size.

No. 25/H1246w/1109	Size $1\frac{1}{4}$ " x 26 thread	each 17/6
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"B.B.I." HEAD TUBE DIE HOLDER WITH GUIDE

For screwing head tubes. Stock sizes $\frac{11}{16}$ " x 30 thread (B.S.A. size). Stock sizes 1" x 24 and 26 thread.

Complete with holder.

No. 25/H1247a/1503	Extra dies.	.. ..	each 20/4
No. 25/H1247c/1004	Outside diameter size $1\frac{1}{4}$ " dia. x $\frac{1}{4}$"	.. ..	each 13/8
No. 25/H1247d/300	Extra Guides.	.. ..	each 3/9

Reducing cutters to reduce 1" tube to $\frac{11}{16}$ "

No. 25/H1247e/1006 each 13/3

Please state size when ordering.

REDUCING CUTTERS

To reduce 1" tubes to $\frac{11}{16}$ " to fit

No. 25/H1246a.

No. 25/H1246e/809 each 10/2



HEAD TUBE DIE HOLDER WITH GUIDE

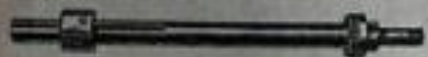
For screwing head tubes, can be adjusted to cut $\frac{1}{16}$ " under or over size. Foreign. 11" overall.

$31/32$ " x 30 thread.

No. 25/H1249a/900 each 12/-

1" x 24 thread.

No. 25/H1249c/900 each 12/-



"B.B.I."

BALL HEAD REAMER

For truing the cup seatings of ball heads after the frames are built up. Made to suit any length of head.

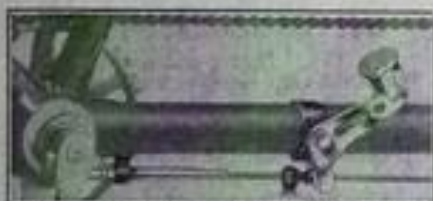
For "B.S.A." Size Lugs and Races.

Reamer complete.

No. 25/H1255a/1806 each 24/8

Extra cutters.

No. 25/H1255e/903 each 12/4



THE "SUN" PATENT TANDEM HEEL BRAKE LEVER

With strong clip for fitting to $1\frac{1}{8}$ " diameter main tubes, to be used in conjunction with rod operated rear Tandem internal expanding brake hubs. For direct drive only.

Chromium Plated.

No. 25/H1266c/809 each 9/-

All Black enamelled.

No. 25/H1266e/600 each 8/-

This Brake Lever can be fitted very quickly and easily on any tandem machine already having a rod brake similar to the illustration shown, and having a main tube $1\frac{1}{8}$ " diameter. The rider has two means of working his rear brake, either by hand or foot, both entirely independent of each other. The hand brake is used in traffic where a very quick application of the brake is of course necessary. The foot brake is generally used on long or short hills, or when the rider's hand gets cramped or cold while using the hand-operated brake. The foot braking is much more powerful than hand braking, as it is a direct pull without any friction from wires, bends, etc., and this must be borne in mind by the rider when braking with foot. At the same time the foot brake can be applied as delicately as desired. There is no possibility of complications arising through one of the two operations getting out of order and so affecting the other. The operations are so entirely independent of each other that this cannot possibly happen.



"MILLENNIUM" HEAD TUBE DIE

Can be adjusted to cut $\frac{1}{16}$ " under or over size marked. Stock sizes $\frac{11}{16}$ " x 30 thread (B.S.A.) and 1" x 24 and 26 thread.

Complete with holder.

No. 25/H1248a/1500	.. ..	each 20/4
25/H1248c/506	Extra dies	.. ..
25/H1248d/10	Extra guides	.. ..

Reducing cutter to reduce 1" tube to $\frac{11}{16}$ "

No. 25/H1248e/506 each 7/6

Please state size when ordering.

HEAD LUG REAMER WITH REVOLVING GUIDE

For truing the cup seatings of ball heads after the frames are built up. Suitable for any length of head.

For "B.S.A." Size Lugs and Races.

Complete.

No. 25/H1255h/1200 each 18/-



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HUBS (ORDINARY)—continued

"B.B.L."
AND
"VINDEC"



"B.B.L." TRANSPORT CARRIER CYCLE HUBS.
(English made.)

For Tradesmen's Cycles, specially strong, with long spindles and best chrome steel cones.

1 1/2" front and rear hub spindles. All black.
1 1/2" chain line, without gear case clearance.

No. 25/H1410a/310	36/40 holes	..	per pair	5/3
25/H1410d/110	Front Hub, 36 holes	..	each	2/6
25/H1410g/200	Rear .. 40 ..	..	..	2/9

1 1/2" chain line, with gear case clearance.

No. 25/H1410b/401	32/40 holes	..	per pair	5/6
25/H1410c/110	Front Hub, 32 holes	..	each	2/6
25/H1410h/203	Rear .. 40 ..	..	..	3/-



"VINDEC" REAR HUBS

Small barrel, 1/2" diameter, 1 1/2" chain line.

Reversible, double screwed for one cog and lock ring on each side, fitted with cone locking nuts and solid spindle. Less cogs and lock rings. (English made.)

No. 25/H1421a/209	Nickel Plated	..	..	each	3/10
25/H1421b/209	Chromium Plated	..	..	..	3/10



"VINDEC" WIDE FLANGE RACING REAR HUB
(less Cog and Lock Nut).

1 1/2" chain line, drilled 40 holes, width of flanges 2 1/2", 1/2" dia. of barrel, 3/4" wide over cones, length of spindle 5 1/2". Specially designed for track work. Fitted with Cone Lock nut.

No. 25/H1423g/205	Nickel Plated	each	3/6
25/H1423h/205	Chromium Plated	3/9
25/H1423k/205	All Black	3/6

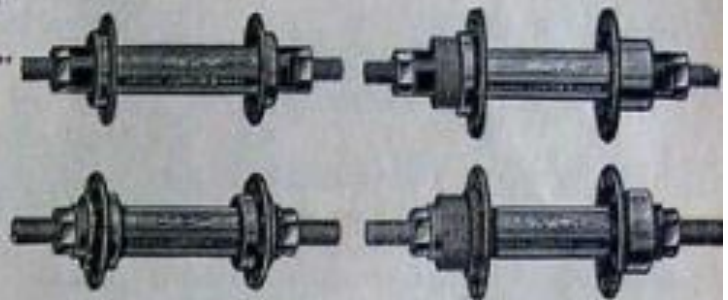
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"B.B.L." JUNIOR HUBS

1 1/2" chain line. Screwed 1" dia. x 20 threads to suit free wheel.
Front and Rear, 20 holes.

No. 25/H1414a/108	Plain Bearing.	Black	per pair	2/6
25/H1415a/200	Ball Bearing.	Nickel	..	2/9
25/H1415b/200	" "	Chromium	..	2/9
25/H1415c/10	" "	"	Front	each 1/2
25/H1415d/102	" "	"	Rear	.. 1/7

Rear drilled 28 holes, to suit Faircycles.

No. 25/H1415f/200	Ball bearing.	Chromium	..	each	2/9
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"VINDEC" FRONT HUBS

Small barrel, 1/2" diameter, 32 holes. (English made.)

Fitted with cone locking nuts and solid spindle.

No. 25/H1421p/111	Nickel Plated	..	..	each	2/8
25/H1421r/111	Chromium Plated	..	..	..	2/8



"VINDEC" TANDEM FRONT HUB

32 holes, width of flanges 2 1/2", barrel 1/2", width over cone locking nuts, 3 1/2", length of spindle, 5 1/2"

No. 25/H1422h/203	Chromium Plated	each	3/-
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"VINDEC" TANDEM REAR HUB
(less cogs and lock rings).

With solid spindle, reversible, double screwed for one cog and lock ring on each side, fitted with cone locking nuts.

40 holes, 1 1/2" C.L., width of flanges, 2 1/2", barrel 1/2", width over cone locking nuts 4 1/2", length of spindle 6 1/2".

No. 25/H1422b/205	Chromium Plated	each	3/6
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HUBS (ORDINARY)—continued

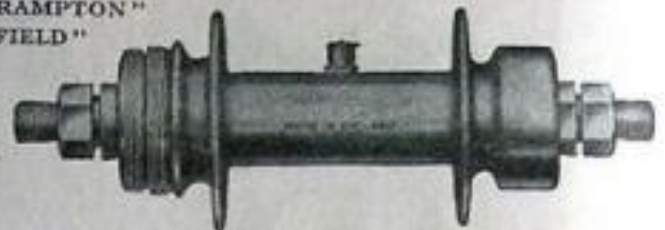
"VINDEC," "BRAMPTON"
and "BLUMFIELD"



"VINDEC" FRONT CARRIER HUBS
Large diameter barrel, wide flange.
For Tradesmen's Cycles.

Specially strong, with shouldered spindle and cast chrome steel cones. Drilled 32 holes. (British made.)

No. 25/H1426d/200	Nickel Plated	.. ..	each 2/9
25/H1426f/200	All Black	.. ..	.. 2/9



"VINDEC" REAR CARRIER HUBS
Large diameter barrel, wide flange.
For Tradesmen's Cycles.

Specially strong, with shouldered spindle and cast chrome steel cones. Drilled 40 holes. 1 1/4" chain line, screwed for cog and lock nut. (British made.)

No. 25/H1426g/202	Nickel Plated	.. ..	each 3/-
25/H1426k/202	All Black	.. ..	.. 3/-



"BRAMPTON"
NARROW BARREL TUBULAR FRONT HUB

Drilled 32 holes. Chromium Plated. 1/2" Spindle, 1/2" Balls. (No. 104.)
No. 25/H1432r/190 1/2 each 1/5



"BRAMPTON,"
REAR RACING HUB (less cogs and lock rings).

With solid spindle, reversible, double screwed for fitting one cog and lock ring on each side.

Enables gear ratio to be quickly changed by reversing wheel. Drilled 40 holes. 1 1/4" chain line only. With cone lock nuts.

No. 25/H1442g/206	Nickel Plated. (733004)	.. ..	each 3/6
25/H1442h/202	Chromium Plated. (735004)	.. ..	.. 4/6



"BRAMPTON"
MINIATURE JUVENILE REAR HUB

20 holes. Screwed 1" dia. x 20 thread. 1 1/8" chain line.

No. 25/H1439b/101 1/2	Chromium Plated. (No. 121)	each 1/6
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"BRAMPTON," FRONT RACING HUB

With cone locking nuts fitted.

No. 25/H1444p/108	Nickel Plated. (713900)	each 2/-
25/H1444s/108	All Black. (718900)	.. ..	.. 2/-



"BLUMFIELD'S" LIGHTWEIGHT RACING HUBS

Spindles made from Kayser Ellison 3 per cent. Nickel Steel, heat-treated to give 60-ton tensile. Cones made from Kayser Ellison Alloy Ball Bearing Steel, beautifully ground after hardening.

Lightest yet made.



Rear Hubs, 4" over cone lock nuts. Weight 8 1/2 oz.

Single Sided, screwed for one cog and lock ring only.

No. 25/H1452b/611	Chromium, with round end spindle	.. ..	each 9/3
25/H1452k/611	All Black	.. ..	.. 9/3
25/H1452m/611	Chromium plated, with flat end spindle	.. ..	.. 9/3
25/H1452n/611	All Black	.. ..	.. 9/3

Rear Hubs, 4 1/4" over cone lock nuts.

Single Sided, screwed for Derailleur Gears.

No. 25/H1453b/611	Chromium, with round end spindle	each 9/3
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Rear Hubs, 4" over lock nuts. Weight 9 1/2 oz.
Rear: 40 holes, 1 1/4" chain line, with cone lock nuts.
Double screwed for fitting one cog and lock ring on each side.
No. 25/H1452a/607 Nickel plated, with round end spindle each 8/9
25/H1452b/611 Chromium 9/3
25/H1452c/611 All Black 9/3
25/H1452o/611 Chromium, with flat end spindle .. 9/3
25/H1452f/611 All Black 9/3
Front Hub to Match.—Drilled 32 holes, 3 1/2" over cone lock nuts.
Weight 4 1/2 oz.
No. 25/H1452p/406 Nickel Plated each 6/-
25/H1452r/611 Chromium Plated 6/6
25/H1452s/611 All Black 6/6

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HUBS (ORDINARY)—continued

"SIMPLEX" AND "BAYLISS WILEY"



"SIMPLEX" DURALUMIN RACING HUBS

With solid steel spindles, hollowed ends, cone locking nuts and washers. Rear double screwed for fitting cog and lock ring on both sides, 1 1/2" C.L. drilled 32 and 40 holes (Foreign).
No. 25/H1456/1103 pair 15/-

Above can be used with Simplex, Osgear, Cyclo, etc., Derailleur gears by alterations of cones, to allow extra length of spindle on Derailleur side and by fitting extra nut for clearance.



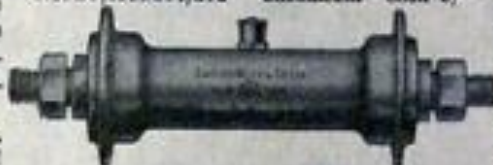
"B.W." REAR HUBS

Wide flange. Less cog and lock ring.

Drilled rear, 40 holes.

1 1/2" chain line, without gear case clearance
No. 25/H1460b/202 Chromium each 3/-

1 1/2" chain line, with gear case clearance
No. 25/H1460c/202 Chromium each 3/-



"B.W." FRONT HUBS

Medium barrel 1 1/2" dia. 32 holes.

No. 25/H1460p/109 Nickel each 2/5

25/H1460r/109 Chromium .. 2/6



"B.W." FREE WHEEL CYCLE HUB

1 1/2" C.L. drilled 40 holes chromium plated. Single sided, screwed with one cog.

No. 25/H1461c/600 each 7/-

Double sided, screwed with two cogs and one lock ring.

No. 25/H1461f/606 each 9/0

Double sided, screwed with three cogs suitable for Derailleur gears and opposite side screwed with cog and lock ring.

No. 25/H1461m/703 each 10/-

Single sided, screwed with three cogs suitable for Derailleur gears.

No. 25/H1461k/606 each 9/0

Sprocket sizes, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22 x 1/2" pitch x 1/2".



"B.W." REAR HUB (less cogs and lock rings).

With solid spindle and cone locking nuts, reversible, double screwed for fitting one cog and lock ring on each side. Drilled 40 holes.

1 1/2" chain line, without gear case clearance.

No. 25/H1462b/209 Chromium each 3/10



"B.W." FRONT HUBS

To suit No. 25/H1462b, with solid spindle, fitted with cone locking nuts. Drilled 32 holes.

No. 25/H1462r/111 Chromium each 2/8



"B.W." FEATHERWEIGHT FRONT RACING HUBS

32 holes.

No. 25/H1464p/302 Nickel each 4/5

25/H1464r/302 Chromium 4/5

25/H1464s/302 All Black 4/5



"B.W." FEATHERWEIGHT REAR RACING HUBS (less cogs and lock rings).

Reversible, double screwed for fitting one cog and lock ring on each side. Drilled 40 holes. A superior hub with hollow spindle end as far as cones. Cast Chrome Steel Cones, accurately ground, ends of hubs fitted with screwed aluminium dust washers.

1 1/2" chain line. Weight per pair, 14 1/2 oz.

No. 25/H1464a/406 Nickel each 6/3

25/H1464b/406 Chromium 6/3

25/H1464c/406 All Black 6/3



"B.W." FEATHERWEIGHT REAR RACING HUB

Single sided, screwed for one cog and lock ring only.

40 holes, 1 1/2" chain line.

No. 25/H1465a/402 Nickel each 5/10

25/H1465b/402 Chromium 5/10

25/H1465c/402 All Black 5/10

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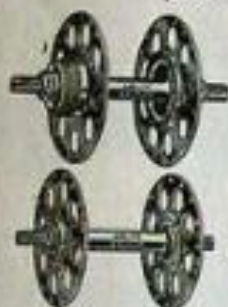
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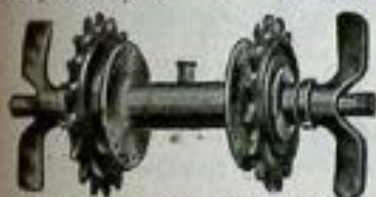
HUBS—continued

(BRITISH HUB CO.'S) "B.S.A.," "CHATER LEA" AND BOX CARRIER



B.H. "AIRLITE" CONTINENTAL LARGE FLANGE RACING HUBS

Chromium Plated.
Solo Rear. 1 1/2" C.L. 40 holes.
Double Screwed for cog and lock ring on both sides.
No. 25/H1489b/1205 .. each 16/6
Double Screwed for cog and lock ring and for Cogear or Simplex Derailleur gear.
No. 25/H1489f/1205 .. each 16/6
Single Screwed for cog and lock ring.
No. 25/H1489c/1205 .. each 16/6
Solo Front Hub. 32 holes.
No. 25/H1489e/807 .. each 11/6
Tandem Rear Double Screwed for cog and lock ring on both sides. 1 1/2" C.L. 40 Holes.
No. 25/H1489w/1398 .. each 18/-
Tandem Front Hub. 32 Holes.
No. 25/H1489s/904 .. each 12/6



"B.S.A." HUBS. PATTERN E.

Reversible, screwed on both sides, 1 1/2" chain line. Less cogs, lock rings, and wing nuts. With cone locking nuts. Chromium Plated. Rear. 40 Holes.
No. 25/H1477b/693 .. each 8/3
Front. 32 Holes.
No. 25/H1477r/405 .. each 5/9

Axle only 1" dia.
Screwed Ends (No. 1421)
No. (Less Cones, Nuts and Washers.) each
25/H1508p/607 Bright, length 32" .. 8/10
25/H1508r/607 .. " 33" .. 8/10
25/H1508s/607 .. " 34" .. 8/10
25/H1508w/607 .. " 35" .. 8/10



Side Hubs complete with Stub Axles. Screwed and fitted with Lock Nuts. (Note these hubs are made in rights and lefts and cannot be used for either side.)
No. 25/H1509c/2207 All Black pair 30/1



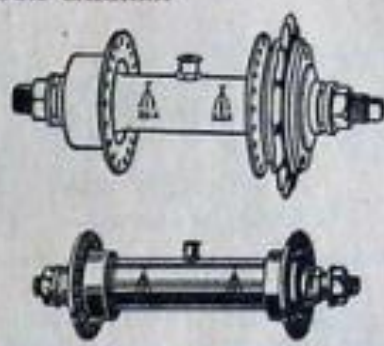
B.H. "SIVADA" RACING HUBS

Rear Double Screwed for fitting cog and lock ring on both sides. Cast shells with 3/8" dia. barrel, special spindles fitted with carbon chrome steel cones and lock nuts.
1 1/2" C.L. Chromium Plated. 40 Holes.
No. 25/H1492b/208 .. each 3/8
Front only to match. 32 Holes.
No. 25/H1492a/108 .. each 2/4



"B.S.A." LIGHT STEEL HUBS

Hub shells turned from solid bar to obtain lightness, wide inside flange to make wheel rigid. Adjusting cone side is locked by a washer sliding along slot of spindle and secured by a lock nut.
(Less cogs, lock ring and wing nuts.) Chromium Plated. 1 1/2" chain line.
Rear for single cog. 40 Holes.
No. 25/H1474b/609 .. each 9/-
Rear for double cog. 40 Holes.
No. 25/H1474e/609 .. each 9/-
Front to suit. 32 Holes.
No. 25/H1474r/406 .. each 6/-



"B.S.A." HUBS (less cog and lock ring)

Chromium Plated.
1 1/2" chain line, with gear case clearance. Pattern B/1.
No. 25/H1475r/405 Front, 32 holes each 5/9



"B.S.A." REAR HUB. PATTERN D.

With Extended Flange.
Less cog, lock ring, and wing nuts. 1 1/2" chain line. Drilled 40 Holes. With cone locking nuts. Chromium.
No. 25/H1476b/603 .. each 6/11

For AXLE LUGS, PLATES, BOLTS and NUTS see page 240.
For GEE SPRINGS see page 317.



"CHATER LEA" FOR BOX CARRIER TRICYCLE

Standard Model. Side Hubs complete with Axle 1" dia. Drilled 40 Holes.
No. 25/H1508e/2308 Black 32" pair 31/4
25/H1508f/2308 .. 33" .. 31/4
No. 25/H1508g/2308 Black 34" pair 31/4
25/H1508h/2308 .. 36" .. 31/4

For Dropped Chassis Model.
Stub Hub Axles only, with lock nut, 5 1/2" overall screwed, 1" x 24 thread. To suit Axle Lugs and screwed 1/2" x 20 thread for side cones.
No. 25/H1509p/209 Left-hand side each 3/8
25/H1509r/209 Right-hand side .. 3/8
Front Hub Axle, Plain Solid. 1" diameter, 25 1/2" long.
No. 25/H1509b/203 .. each 2/11
Cranked Front Hub Axle Lugs, No. 1442-3
Screwed for above hubs.
No. 25/H1509t/500 4 1/2" centres pair 6/7

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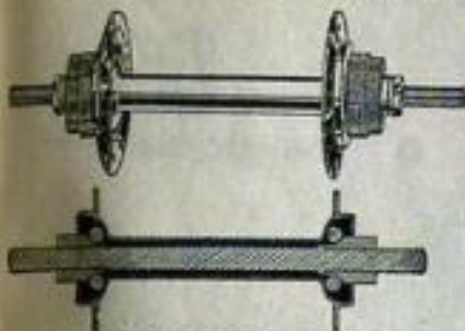
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HUBS (ORDINARY AND EXPANDING BRAKE)—continued

**"TABUGGI" LIGHTWEIGHT**

RACING HUBS. (Foreign.)

Chromium Plated.

Shell and cups made from finest Chrome Nickel Steel in one piece, heat treated and ground. $\frac{1}{8}$ " dia. barrel.

The Oiling System is also distinctive, having inlets on the outside of housing direct into bearing. With cone locking nuts and grooved spindles.

"AMBRA SUPERGA" with Flanges made of special Duralumin, which are shrunk on to the barrel by a patented process, giving immense strength and resistance. Solid spindle.**"AMBRA SECUNDUS"** with barrel and flanges turned from the solid piece of finest Sheffield chrome nickel steel, spindles bored for lightness.Rear, $1\frac{1}{2}$ " C.L., drilled 40 holes. $\frac{1}{8}$ " balls. Double cog (less cogs and locking rings), $2\frac{1}{2}$ " width of flange, $4\frac{1}{2}$ " width over lock nuts, $5\frac{1}{2}$ " length of spindle.**"AMBRA SUPERGA"**(weight $7\frac{1}{2}$ oz.)

No. 25/H1539a/1001 .. each 13/6

"AMBRA SECUNDUS"(weight $9\frac{1}{2}$ oz.)

No. 25/H1539d/710 .. each 10/6

Front, drilled 32 holes. $\frac{1}{8}$ " balls. $4\frac{1}{2}$ " width over cone and nut, $2\frac{1}{2}$ " width of flange, $4\frac{1}{2}$ " length of spindle.**"AMBRA SUPERGA"** (weight $4\frac{1}{2}$ oz.)

No. 25/H1539p/800 .. each 8/-

"AMBRA SECUNDUS" (weight $4\frac{1}{2}$ oz.)

No. 25/H1539t/410 .. each 6/6

**"CYCLO" SUPER-IDEAL
TANDEM INTERNAL EXPANDING
BRAKE HUB**

Complete with Handlebar Lever and Cable-cum-Rod Control. Chromium Plated.

Rear, with equal Flanges $5\frac{1}{2}$ " dia. Drilled 40 holes.No. 25/H1540d/2002 $1\frac{1}{2}$ " C.L. each 27/-

Front, Drilled 32 holes.

No. 25/H1540p/1909 .. each 25/-

Specially designed for heavy tandem work. Equal sided flanges on Rear Hub only ensuring perfect wheel building, and safeguard against spoke breakage. Smooth and extremely powerful finger touch action.

**SPOKE LENGTHS AND BUILDING
INSTRUCTIONS FOR "CYCLO"
"SUPER IDEAL" HUB BRAKES**

Spoke Lengths.

No. 25/H1540d Rear Hub

 $9\frac{1}{2}$ " on Drum Side for $26" \times 1\frac{1}{2}"$. $9\frac{1}{2}$ " on Gear Side for $26" \times 1\frac{1}{2}"$. $9\frac{1}{2}$ " on Drum Side for $26" \times 1\frac{1}{2}"$. $9\frac{1}{2}$ " on Gear Side for $26" \times 1\frac{1}{2}"$.

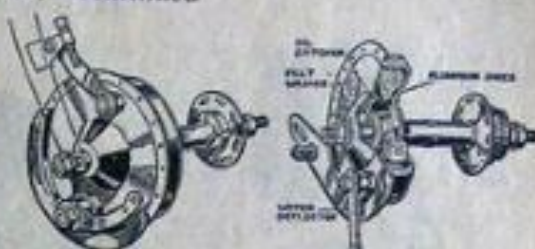
No. 25/H1540p Front Hub

 $9\frac{1}{2}$ " on Drum Side for $26" \times 1\frac{1}{2}"$. $10\frac{1}{2}$ " on Plain Side for $26" \times 1\frac{1}{2}"$. $9\frac{1}{2}$ " on Drum Side for $26" \times 1\frac{1}{2}"$. $10\frac{1}{2}$ " on Plain Side for $26" \times 1\frac{1}{2}"$.

Above are for Endrick or Westwood Rims.

For $26" \times 1\frac{1}{2}"$, add $\frac{1}{4}"$ to above sizes of $26" \times 1\frac{1}{2}"$. For $28"$ Wheels, add $1"$ to above sizes. 13 G. Spokes should be used. The correct lacing for these hubs should be one over two. The gear side should be laced first and pulled down for requirements to build over cones.

See page 150 for Sun Patent Tandem Heel Brake Levers to be used in conjunction to rod operated Tandem rear internal expanding brake hubs.

**"BLUMFIELD" INTERNAL
EXPANDING BRAKE HUBS**

Complete with Duralumin two-position Handlebar Lever to suit various shape Bends and Waterproof Cable Control.

Front Hub, For Cycles. 32 holes.

No. With Brake-on Fork Clip.

25/H1543c/806 All Black .. each 16/3

No. With Detachable Fork Clip.

25/H1543f/806 All Black .. each 16/3

Front Hub, For Tandem.

No. With Brake-on Fork Clip.

25/H1543s/906 All Black .. each 18/6

No. With Detachable Fork Clip.

25/H1543x/906 All Black .. each 18/6

Rear Hub, For Cycles $1\frac{1}{2}"$ C.L. 40 holes.

No. With Detachable Stay Clip.

25/H1544d/900 Chromium Plated ea. 19/3

25/H1544f/806 All Black .. 17/9

Rear Hub, For Cycles $1\frac{1}{2}"$ C.L. 40 holes.

With Detachable Stay Clip.

No. For Derailleur Gear.

25/H1544n/900 All Black .. each 18/6

Rear Hub, For Two-Gent. Tandem, $1\frac{1}{2}"$ C.L. 40 holes. With all cable operated.

No. With Detachable Stay Clip.

25/H1545d/1100 Chromium Plated ea. 23/-

25/H1545f/1000 All Black .. 21/6

No. For Derailleur Gear.

25/H1545n/1100 All Black .. ea. 22/6

No. Cable-cum-Rod Operated.

25/H1546d/1100 Chromium Plated ea. 23/-

25/H1546f/1000 All Black .. 21/6

No. For Derailleur Gear.

25/H1546n/1100 Chromium Plated ea. 24/-

25/H1546x/1000 All Black .. 22/6

BRITISH "CYKLBRAKE"

Internal Expanding Rear Brake Hub.

Drilled 40 holes (less cog and lock ring). $1\frac{1}{2}"$ Chain Line. Black Finish, with connecting rod.For Carrier Tricycles with $\frac{1}{2}"$ spindles.Screwed $1\frac{1}{2}" \times 24$ Thread.

Without Brake Lever.

No. 25/H1554d/1203 .. each 16/5

With Ratchet Lever and Rod complete.

No. 25/H1554e/1708 .. each 23/7

For Transport Carrier Tricycles with $\frac{3}{8}"$ spindles.Screwed $1\frac{1}{2}" \times 24$ Thread.

Without Brake Lever.

No. 25/H1554g/1510 .. each 21/1

With Ratchet Lever and Rod complete.

No. 25/H1554h/2103 .. each 28/3

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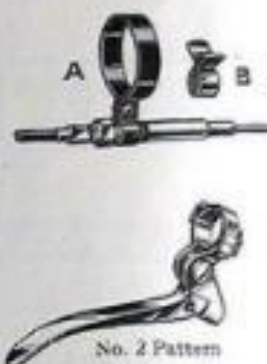
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HUBS (EXPANDING BRAKE)—continued



BRITISH "CYKLBRAKE"

The "Cyklbrake" internal expanding Brake Hub. It can be used with either free wheel or fixed cog.

Complete with Standard Type No. 1 Handlebar Lever with Band Clip and Waterproof Cable Control.

Front, drilled 32 holes.

"Solo" for Gent's Cycles. 3" Brake Drums.

No. 25/H11552p/600	Nickel Plated	each 9/-
25/H11552r/906	Chromium Plated	13/6
25/H11552s/600	All Black	9/-

"Super Tandem." 4" Brake Drums.

No. 25/H11552t/900	Nickel Plated	each 13/6
25/H11552w/1299	Chromium Plated	17/-
25/H11552x/900	All Black	13/6

Rear, drilled 40 holes. 1 1/2" Chain Line.

Screwed 1 1/2" x 24 thread, to take cog and lock ring.

"Solo." For Gent's Cycles. 3" Brake Drums.

No. 25/H11552a/600	Nickel Plated	each 9/-
25/H11552b/906	Chromium Plated	12/6
25/H11552c/600	All Black	9/-

Screwed and made specially suitable for Derailleur Chain Speed Gear.

"Solo." For Gent's Cycles. 3" Brake Drums.

No. 25/H11552g/600	Nickel Plated	each 9/-
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REAR "SUPER TANDEM" HUB (Cable-rod Model). 4" Brake Drums.

Complete with Handlebar Lever and Waterproof Cable Control to bottom bracket, with lug for bracing on the under side of front bottom bracket, and long rod fitting to hub. 1 1/2" chain line, 40 holes.

No. 25/H11550h/906	Nickel Plated	each 14/-
25/H11550k/1403	Chromium Plated	19/-
25/H11550l/906	All Black	14/-

Screwed and made specially suitable for Derailleur Chain Speed Gears.

No. 25/H11550t/906	Nickel Plated	each 14/-
25/H11550w/1403	Chromium Plated	19/-
25/H11550x/906	All Black	14/-

Can be supplied with a detachable clip for existing machines in place of brake clip at the same price.

No. 2 Pattern Solid Levers with two screw clips, can be supplied in lieu of No. 1 Pattern -/6 extra per hub each -/9

NOTE.—When building up wheels with "Cyklbrake" Hubs it is necessary to build central to "over-cone" measurement so as to obtain the correct chain line, and to do this the wheel has to be slightly "dished."



BRITISH "SOLO CYKLBRAKE" HUB

Complete with Connecting Rod, from front hub to lug to screw on front brake tube, and from Rear Hub to chain stay clip with hanger, to fit existing down rod.

Can also be supplied with both front and rear hanger lug to screw to crown and bottom bracket.

For conversion of existing ordinary cycles.



Rear (less cog and lock ring), screwed 1 1/2" x 24 thread, drilled 40 holes, 1 1/2" C.L. 3" Brake Drums.

No. 25/H11550b/706	Chromium Plated	each 11/6
25/H11550c/600	Nickel Plated	9/-

Front. 32 holes.

No. 25/H11550s/600	Nickel Plated	each 9/-
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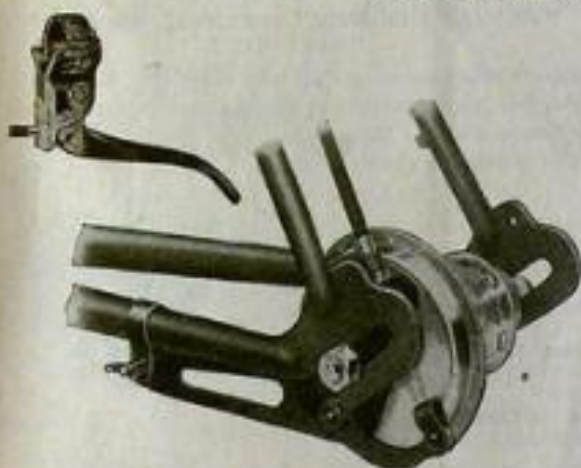
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HUBS (EXPANDING BRAKE)—continued



"PERRY" CABLE LENGTHS

Front (lever to brake shoe arm) 2' 10 1/2"
 Rear (lever to brake shoe arm) 4' 6 1/2"
 Rear for Tandems Cable-cum-Rod inclusive (lever to brake shoe arm) 7' 1"

SPOKE LENGTHS

Westwood or Eadrick Rims 26" x 1 1/4"
 Front, 11 1/2" and 11 3/8". Rear 11 3/8" and 11 1/2"
 Westwood or Eadrick Rims 26" x 1 1/2"
 Front, 11 3/8" and 11 1/2". Rear, 11 1/2" and 11 1/2"
 For 28" Rims add 1" to each of the above sizes.

"PERRY" INTERNAL EXPANDING BRAKE HUBS

Front, for Cycles.

Drilled 32 holes, shouldered spindles and Cast Carbon Chrome Steel Cones.

Complete with Handlebar Lever and Waterproof Covered Cable Control.

No. 25/H1556h/1000 Chromium Plated .. each 13/9
 25/H1556k/1000 All Black 13/9

Complete with Connecting Rod, from Front Hub, including fork clip, stirrup with front tube, top joint bolt, and eye to fit existing down rod.

No. 25/H1556b/1000 Chromium Plated .. each 13/9

Complete with Handlebar Lever and Waterproof Covered Cable Control.

For Tandem Machines.

No. 25/H1558p/1209 Nickel Plated .. each 17/-
 25/H1558r/1209 Chromium Plated 17/-
 25/H1558s/1209 All Black 17/-

Rear, for Cycles.

Drilled 40 holes. Screwed 1 1/2" x 24 thread to take cog and lock ring. Shouldered spindles and Cast Carbon Chrome Steel Cones. 1 1/2" Chain line.

Complete with Handlebar Lever and Waterproof Covered Cable Control.

No. 25/H1557b/1100 Chromium Plated .. each 15/3
 25/H1557k/1100 All Black 15/3

Complete with Handlebar Lever and Waterproof Covered Cable Cable-cum-Rod Model, with Large Brake Drum 3 1/2" dia. Brake, specially suitable for Tandems.

No. 25/H1559r/1309 Chromium Plated .. each 18/6
 25/H1559s/1309 All Black 18/6

"STURMEY-ARCHER" INTERNAL EXPANDING BRAKE HUBS

Complete with Handlebar Brake Lever Waterproof Covered Cable Control, with detachable Front Fork and Rear Stay Clips.

Rear, for Gent's Solo Cycle. 1 1/2" C.L.
 40 holes.

No. Model BRC
 25/H1560b/1100 Chromium Plated ea. 15/3
 25/H1560c/1100 All Black 15/3

If supplied with Wing Nuts -/9. extra each hub 1/-

Spoke Lengths: For 26" x 1 1/2" rims 10 3/8" and 11 1/2" long.
 " 26" x 1 1/4" " 10 1/2" " 11 1/2" "
 " 26" x 1 1/2" " 10 1/2" " 11" "
 " 28" x 1 1/2" " 11 1/2" " 12" "

These lengths are for three cross lacing on fronts and four cross lacing on rears.

Front, for Solo Cycle. 32 holes.

No. Model BFC
 25/H1560r/1000 Chromium Plated ea. 13/9
 25/H1560s/1000 All Black 13/9

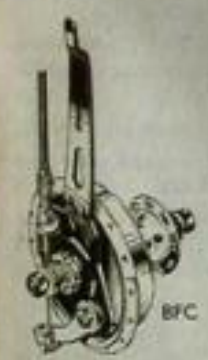
If supplied with Wing Nuts /9. extra each hub 1/-

Can be supplied with Rod Control bottom parts, minus brake tubed top parts (in lieu of Cable Control), suitable for Solo machines (not made for Tandem Rod Control) with Handlebar Roller Levers and Rods, at same prices.

For replacement parts for above, see pages 183 to 191.

Rear, for Two Gent's Tandem Machines. Screwed to take Ordinary Free Wheel and Derailleur not Cog and Lock Ring. 1 1/2" C.L., 40 holes. Model BRT

No. 4 1/2" Brake Drum.
 25/H1560e/1309 Chromium Plated ea. 18/6
 25/H1560f/1309 All Black 18/6



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HUBS (EXPANDING BRAKE, COASTER AND TWO- AND THREE-SPEED)—continued

"ROYAL ENFIELD" INTERNAL EXPANDING BRAKE HUBS

Complete with Lever and Waterproof Cable Control, with detachable Front Fork and Rear Stay Clips. Large Brake Drum, 3 1/2" x 1/4", with Flanged Dustproof Cover Plates on both sides. 1/2" Balls.



- Rear, for Cycle, 1 1/4" C.L. 40 holes.
No. 25/H1561c/800 All Black each 15/6
- Rear, for Two Gent. Tandem, 1 1/4" C.L. 40 holes.
No. 25/H1561k/800 All Black each 15/6
- Front, for Cycle, 32 holes.
No. 25/H1561s/700 All Black each 14/-
- Front, for Tandem, 32 holes.
No. 25/H1561z/700 All Black each 14/-

SPOKE LENGTHS for "R.E."

For Cycles or Tandems. For Front or Rear.

- For 26" x 1 1/4" Rims x 11 1/2"
- " 26" x 1 1/4" " x 11 1/4"
- " 26" x 1 1/4" " x 11 1/8"

For 28" Rims add 1" to each of the above sizes. 14 G. for Cycles and 13 G. for Tandems are recommended. Spoke crossings are three over Front and four over Rear.

"PHILLIP'S GRABBE" INTERNAL EXPANDING BRAKE HUBS

Complete with Connecting Rod, from Front Hub, including Head Tube, Top Joint, Eye-bolt and Nut, and from Rear Hub, including all Bottom Parts to Head Tube, with Top Joint, Eye-bolt and Nut.



- Complete with Handlebar Lever and Waterproof Cable Control.
Front Hub, for Gent.'s Cycles.
Drilled 32 holes.
No. 25/H1566b/704 All Black each 9/4

Rear Hub, for Gent.'s Cycles. Drilled 40 holes.
1 1/4" Chain Line.

- Screwed 1 1/4" x 24 thread, to take cog and lock ring.
No. 25/H1568a/704 All Black each 9/9
- 25/H1568f/704 Chromium 9/9



"EADIE" COASTER HUB

With cogs 8, 9, 10 teeth x 1" pitch x 1/2" or 3/4"
.. .. 16, 18, 20 " x 1/2" " x 1/2" " 3/4"
Narrow Pattern Shell. 40 Holes.
1 1/2" and 1 1/4" Chain Line.

With Square End and Flat Spindles.

- No. 25/H1570b/1006 Chromium each 13/9
- 25/H1570c/1006 All Black .. 13/9

With Round End Spindles.

- No. 25/H1570e/1006 Chromium each 13/9
- 25/H1570f/1006 All Black .. 13/9

Model T with Free Wheel.

- Top Tube Control for Safety. 40 holes.
No. 25/H1578b/1600 Chromium each 20/6
- 25/H1578c/1600 Black .. 20/6

- Top Tube Control for Tandem. 40 holes.
No. 25/H1578h/1600 Chromium each 20/6
- 25/H1578k/1600 Black .. 20/6

- Handlebar Control for Safety. 40 holes.
No. 25/H1578r/1600 Chromium each 20/6
- 25/H1578s/1600 Black .. 20/6

- Handlebar Control for Tandem. 40 holes.
No. 25/H1578w/1600 Chromium each 20/6
- 25/H1578x/1600 Black .. 20/6



"PERRY" COASTER HUB

With One Sprocket. Chromium Plated.
No. 25/H1571b/1003 each 13/3
Chain lines 1 1/4" and 1 1/2". Drilled 40 Holes.
Cogs:
8, 9, 10 teeth .. 1" x 3/8"
16, 18, 20 " .. 1" x 1/2" or 3/4"



"PERRY" COASTER HUB

Fitted with Double Cogs, Two Wing Nuts and Slip-on Chain Stay Clip, quickly detachable, specially suitable for lightweight motor machines.

Chain Line 1 1/4". Drilled 40 Holes.
Made in 16, 17, 18, 19, 20, 21, 22 and 23 teeth.
Sprockets for 1/2" pitch x 1/2" chain.
Chromium Plated. Complete.
No. 25/H1572L/1109 each 13/9

Model TF with Fixed Cog.

- Top Tube Control for Safety. 40 holes.
No. 25/H1577b/1503 Chromium each 20/6
- 25/H1577c/1503 Black .. 20/6

- Top Tube Control for Tandem. 40 holes.
No. 25/H1577h/1503 Chromium each 20/6
- 25/H1577k/1503 Black .. 20/6

- Handlebar Control for Safety. 40 holes.
No. 25/H1577r/1503 Chromium each 20/6
- 25/H1577s/1503 Black .. 20/6

- Handlebar Control for Tandem. 40 holes.
No. 25/H1577w/1503 Chromium each 20/6
- 25/H1577x/1503 Black .. 20/6

"STURMEY-ARCHER" TWO-SPEED GEAR HUBS

Complete with Cog, Quick Release Fittings and Wing Nuts.



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HUBS (TWO- AND THREE-SPEED)—continued



**STURMEY-ARCHER THREE-SPEED
MEDIUM RATIO GEAR HUBS**
Model AM.

Complete with Quick Release Fittings and Wing Nuts. Top tube control, 40 holes. Chromium Plated.

For Solo Machines.

With Splined Sprockets.

No. 25/H1581b/2008 each 26/-

With handlebar trigger control.

No. 25/H1581bt/2208 each 29/-

Splined Sprocket. Sizes 14, 15, 16, 17, 18 and 20 T. $\times \frac{1}{4}'' \times \frac{1}{4}''$.

For Tandem.

With Screwed Sprockets.

No. 25/H1581h/2008 each 26/-

Screwed Sprocket. Sizes 16, 17, 18 and 20 T. $\times \frac{1}{4}'' \times \frac{1}{4}''$.

Gear Ratios 15-55% increase over normal
Direct drive 13-46% decrease.



**"STURMEY-ARCHER"
THREE-SPEED GEAR**
Model AW.

Complete with Cog.

With Top Tube Control.

For Safety Cycles, 40 Holes.

No. 25/H1585b/1811 Chromium each 23/9
25/H1585c/1811 Black 23/9

For Safety Cycles, 36 Holes.

No. 25/H1585e/1811 Chromium each 23/9

For Tandem Machines, 40 Holes.

No. 25/H1585h/1811 Chromium each 23/9
25/H1585k/1811 Black 23/9

With Handlebar Control and Ordinary Nuts. For Safety Cycles, 40 Holes.

No. 25/H1585r/1811 Chromium each 23/9
25/H1585s/1811 Black 23/9

With Quick Release Fitting and Wing Nuts. For Safety Cycles, 40 Holes.

No. 25/H1585m/1908 Chromium each 24/9
25/H1585n/1908 Black 24/9



**"STURMEY-ARCHER" TWO-SPEED
CLOSE RATIO GEAR HUBS**
(Model TG).

Complete with quick release fittings and wing nuts. Top Tube Control for Safety, 40 holes. Chromium Plated.

Suitable for Solo or Tandem Machines.

13-46% Reduction.

With Fixed Cog.

No. 25/H1579b/1503 each 19/6

Splined Sprocket Sizes.

14, 15, 16, 17, 18, 19, 20 and 22 T. $\times \frac{1}{4}'' \times \frac{1}{4}''$.

With Free Wheel.

No. 25/H1580b/1600 each 20/6

Splined Free Wheel Sizes.

16, 17, 18, 19 and 20 T. $\times \frac{1}{4}'' \times \frac{1}{4}''$.



**"STURMEY-ARCHER"
TRIGGER CONTROL
AND PARTS**
See page 185

NOTE.—"Sturme-Archer" Three-Speed Gears can be supplied for any width of back jaw down to 4".
Chain lines $\frac{1}{4}''$ to $\frac{1}{2}''$ inclusive.
Drilled 40 Holes.

Cogs, Screwed: 8, 9 T. $1'' \times \frac{1}{4}''$ and $\frac{3}{8}''$
16, 18, 20 T. $\frac{1}{4}'' \times \frac{1}{4}''$.. $\frac{1}{4}''$

**"STURMEY-ARCHER" FOUR-
SPEED GEAR**
Model AF.

Complete with Cog, Trigger Control and Wing Nuts. For Cycles, 40 Holes. Chromium Plated.

1st (Low Gear) .. 25% decrease from normal gear.
2nd (Intermediate Low Gear) 10% decrease from normal gear.
3rd (Normal Gear) Direct Drive
4th (High Gear) .. 9-1% increase over normal gear.

No. 25/H1586b/2108 each 39/-
Four-speed Gear is an ounce or so lighter than three-speed gears, although it provides an extra gear.

Outside dimensions are the same as the AW, AM or AR Gear Hubs.



**"STURMEY-ARCHER"
THREE-SPEED CLOSE RATIO GEAR
HUBS, Model AR.**

Complete with Quick Release Fittings and Wing Nuts, top tube control, 40 holes. Chromium Plated. Suitable for Solo machines.

No. 25/H1582b/2300 each 29/-

With Handlebar Trigger Control.

No. 25/H1582bt/2500 each 32/-

Splined Sprocket Sizes.

14, 15, 16, 17, 18 and 20 T. $\times \frac{1}{4}'' \times \frac{1}{4}''$.

Gear Ratios 7-24% increase over normal,
Direct Drive 6-76% decrease.

**"STURMEY-ARCHER"
CLOSE RATIO THREE-SPEED HUBS**
Model ES.

Complete with Cog.

With Quick Release Fitting and Wing Nuts.

With Top Tube Control for Safety, 40 Holes.

No. 25/H1583c/1811 Black each 23/9
36 Holes.

No. 25/H1583e/1811 Chromium each 23/9
25/H1583f/1811 Black 23/9

Gear Ratios 12-5% increase over normal,
Direct Drive 11-1% decrease.



TBC

**"STURMEY-ARCHER"
TWO-SPEED GEAR HUB**

With Internal Expanding Brake.

25% Reduction.

Complete with Cog, 40 Holes.

With Quick Release Fitting and Wing Nuts.

Model TBFC with Fixed Cog.

Top Tube Control for Safety.

No. 25/H1617b/2200 Chromium each 28/-
25/H1617c/2200 Black 28/-

Top Tube Control for Tandem.

No. 25/H1617h/2200 Chromium each 28/-

Model TBC with Free Wheel.

Top Tube Control for Safety.

No. 25/H1618b/2200 Chromium each 29/-
25/H1618c/2200 Black 29/-

Top Tube Control for Tandem.

No. 25/H1618h/2200 Chromium each 29/-
25/H1618k/2200 Black 29/-

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HUBS (THREE SPEED)—continued



"STURMEV-ARCHER" THREE-SPEED WIDE RATIO HUB
With Internal Expanding Brake.
Model AT.

For Two-Gent.'s Tandem Machines.
With all Cable or Cable-cum-Rod Control for Expanding Brake.

1½ C.L. for Direct Drive Tandem.
No. 25/H1587L/2800 Chromium each 35/-
25/H1587m/2800 Black 35/-

If supplied with Wing Nets,
/B extra each Hub 1/-

Gear Ratios 33¼% increase over normal,
Direct Drive 25% decrease.



"STURMEV-ARCHER" THREE-SPEED WIDE RATIO HUB
With Internal Expanding Brake.
Model ABC. For Gent's Cycle.

Complete with Handlebar Brake Lever,
Waterproof Covered Cable Control and Top
Tube Gear Control. Drilled 40 Holes.

No. 25/H1587b/2603 Chromium each 32/6
25/H1587c/2603 Black 32/6

Cogs (Screwed) :

8, 9 teeth × 1" pitch × ¼" and ⅜" wide
16, 18, 20 teeth × ½" .. × ⅜" .. ⅝" ..

Gear Ratio 33¼% increase over normal,
Direct Drive 25% decrease.



"PERRY-STURMEV" THREE-SPEED HUB

With Internal Expanding Brake.

Gear Ratios 33¼% increase over normal,
Direct Drive 25% decrease.

Complete with Handlebar Brake Lever with
Waterproof Covered Cable Control and Finger
Grip Adjustment and Top Tube Gear Control.
Drilled 40 Holes.

For Gent's Cycle.

No. 25/H1589a/2602 Nickel .. each 32/6
25/H1589b/2603 Chromium .. 32/6
25/H1589c/2603 Black 32/6

With 3½" dia. Brake Drum, Cable-cum-Rod,
with Spring Bracket Attachment. Specially
for Two-Gent.'s Tandem Machines.

No. 25/H1589L/2800 Chromium each 34/-

Cogs (Screwed) :

8 and 9 teeth × 1" pitch × ¼" and ⅜" wide
16, 18, 20 .. × ½" .. × ⅜" .. ⅝" ..

For Replacement Parts for "Sturmev-Archer" Hubs
see pages 183 to 191.

"CYCLO" THREE STAR STANDARD SINGLE WIRE DERAILLEUR GEARS

Complete with top tube control
with waterproof covered cables
and Triple Free Wheel. Less hub.

Sprocket sizes ½" × ¼" for Solo
machines.

Low Gear, 18, 19, 20, 21, 22, 23 T.
Middle Gear, 17, 18, 19 T.
Top Gear, 13, 14, 15, 16 T.

Clip Fitting.

With Black Cables.

No. 25/H1616p/1500 each 22/6

With Silver Cables.

No. 25/H1616r/1500 each 22/6

Braze-on Fitting.

With Black Cables.

No. 25/H1616s/1500 each 22/6

With Silver Cables.

No. 25/H1616t/1500 each 22/6

Can be supplied with Cyclo Unit Combined Free Wheel Hub in lieu
of Derailleur Free Wheel. Sprocket sizes, 12, 13, 14, 15, 16, 17, 18,
19, 20, 22 and 23 T.

/304 extra each 5/-

Three Star Gear is limited in action to a 23 T low gear sprocket.

"CYCLO-OPPY" THREE-SPEED DERAILLEUR GEAR

Chromium-plated parts with
down tube control with
silver finish water-proof
covered cables. Complete
with Triple Free Wheel.

Sprocket size ½" × ¼" for
Solo machine.

With Standard Free Wheel
sizes as follows :

Low Gear, 18, 19, 20, 21,
22, 23, 24 T.
Middle Gear, 17, 18 T.
Top Gear, 13, 14, 15, 16,
17 T.

Clip Fitting.

No. 25/H1616b/2000 .. each 30/-

Braze-on Fitting.

No. 25/H1616c/2000 each 30/-

With Boss type Free Wheel, sizes as below :
(Suitable for Standard racing hub).

Low Gear, 18, 19, 20, 21, 22 T. Middle Gear, 16, 17 T.
Top Gear, 13, 14, 15, 16 T.

Clip Fitting.

No. 25/H1616e/2000 each 30/-

Braze-on Fitting.

No. 25/H1616f/2000 each 30/-

Can be supplied with Cyclo Unit Combined Free Wheel Hub in lieu
of Derailleur Free Wheel. Sprocket sizes, 12, 13, 14, 15, 16, 17,
19, 20, 22 and 23 T.

/304 extra each 5/-



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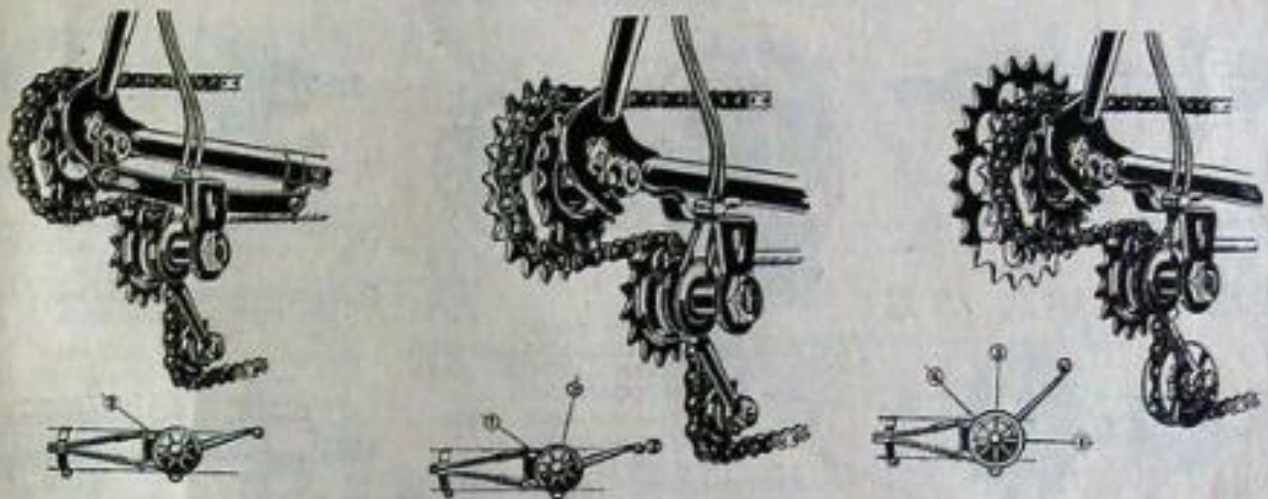
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HUBS—"CYCLO" (TWO- THREE- AND FOUR-SPEED)—continued



"CYCLO" DERAILLEUR ROLLER CHAIN SPEED GEARS WITH CHROMIUM PLATED PARTS

Complete with Top Tube Control, Double Cable and Free Wheel

- Double Cog Jockey Tension Model.**
Three-Speed. Without Rear Hub.
For Cycles.
- No. 25/H1590b/1608 each 25/-
For Two-Gent.'s Tandem Machines.
No. 25/H1590m/1808 each 28/-
Twist Grip with Dummy Handle to match.
/202 Extra each 4/3
"Cyclo" Gears supplied with low Gear
Sprockets over 22 T.
/8 extra each 1/-
- Two-speed, for use on ordinary Standard
Hubs (less hub). For Cycles.**
- No. 25/H1590b/1304 each 20/-
For Two-Gent.'s Tandem Machines.
No. 25/H1590e/1604 each 23/-
- Three-speed with Special Rear Hub, 40
holes, with extra long collars. For Cycles.**
- No. 25/H1590r/1908 each 29/6
For Two-Gent.'s Tandem Machines.
No. 25/H1590w/2300 each 34/6
- Duralum "Super Cyclo" Three-Speed
Without Rear Hub.**
For Cycles.
- No. 25/H1592b/1903 each 28/6
For Two-Gent.'s Tandem Machines.
No. 25/H1592e/2103 each 31/6
With Special Rear Hub, 40 holes.
For Cycles.
- No. 25/H1592r/2203 each 33/-
For Two-Gent.'s Tandem Machines.
No. 25/H1592w/2507 each 38/-
- Single Cog and Pulley Jockey Tension
Model.**
- Two-speed, for use on ordinary Standard
Hubs (less hub). For Cycles.**
- No. 25/H1593b/1410 each 22/-
For Tandem Machines.
No. 25/H1593e/1610 each 25/-
- Three-speed with Special Rear Hub, 40 holes
with extra long collars. For Cycles.**
- No. 25/H1593r/2102 each 31/6
For Tandem Cycles.
No. 25/H1593w/2406 each 36/6
Without Rear Hub. For Cycles.
No. 25/H1593h/1802 each 27/-
Without Rear Hub. For Tandem Machines.
No. 25/H1593m/2002 each 30/-
- Duralum "Super Cyclo" Three-Speed.
With Special Rear Hub, 40 holes.**
For Cycles.
- No. 25/H1594r/2309 each 35/-
For Tandem Machines.
No. 25/H1594w/2701 each 40/-
Without Rear Hub. For Cycles.
No. 25/H1594b/2009 each 30/6
Without Rear Hub. For Tandem Machines.
No. 25/H1594e/2209 each 33/6
- Gears can be supplied with Black Hubs at
the same prices.
- Four-Speed With Special Rear Hub,
40 Holes.**
Double Cog Jockey Tension Model.
For Cycles.
- No. 25/H1600b/2404 each 36/6
For Two-Gent.'s Tandem Machines.
No. 25/H1600L/2708 each 41/6
- Single Cog and Jockey Pulley Tension
Model.**
For Cycles.
- No. 25/H1602b/2404 each 36/6
For Tandem Machines.
No. 25/H1602L/2708 each 41/6
If supplied with Duralum parts.
/207 Extra each 3/6
"Cyclo" Three-Speed Gears supplied with
low Gear Sprocket over 22 T.
/8 extra, each 1/-
- Note.—Only supplied with the "V" Special
Braze-on Four-Speed Bracket.
- The Low Gear Sprocket is Left-hand Thread
and interchangeable. The Third Gear
Sprocket is the Free Wheel. The Second and
First Gear Sprockets are also interchangeable
and Right-hand Thread.

FREE WHEEL AND SPROCKET SIZES

 $\frac{1}{2} \times \frac{1}{2}$

2 Speed.

Free Wheel: 16, 17, 18, 19, 20, 21 and 22 T.
Sprockets: 17, 18, 19, 20, 21, 22, 23, 24, 25,
26 and 28 T.

3 Speed.

Top Gear: 13, 14, 15, 16, 17, 18 T.
Middle Gear: 17, 18, 19, 20, 21, 22 T.
Low Gear: 13, 19, 20, 21, 22, 23, 24, 25, 26
and 28 T.

4 Speed.

1st Gear: 13, 14, 15, 16 T. $\times \frac{1}{2} \times \frac{1}{2}$.
2nd Gear: 17, 18, 19 T. $\times \frac{1}{2} \times \frac{1}{2}$.
3rd Gear: 20, 21, 22 T. $\times \frac{1}{2} \times \frac{1}{2}$.
4th Gear: 25, 26, 28 T. $\times \frac{1}{2} \times \frac{1}{2}$.

- "CYCLO"
TWO- AND THREE-SPEED GEARS
(Not Tandem)**
Can be supplied with "Cyclo-Unit"
Hub combined with Free Wheel.
In lieu of ordinary Hub and Free Wheel.
Sprocket Sizes 12 to 26 T. Interchangeable
on all Gears.
- /4 extra each -/6
On Gear less Hub.
- /304 extra each 5/-



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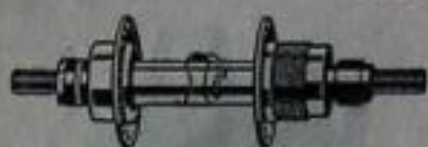
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HUBS (TWO- AND THREE-SPEED)—continued



"CYCLO" DERAILEUR REAR
CYCLE HUB

Single Screwed for use with Triple Free Wheels and Chain Speed Gears. Drilled 40 Holes. $4\frac{1}{4}$ " wide over packing washers.

No. 25/H1597b/300 Chromium each 4/6
25/H1597c/300 Gun Black .. 4/6



"CYCLO-UNIT" HUB COMBINED
WITH FREE WHEEL

Chromium Plated. 40 Holes.

Hub complete with Two-Speed Free Wheel.

Top gear: 13, 14 and 15 T.

Normal gear: 14, 15, 16, 17 and 18 T.

No. 25/H1597a/704 each 11/-

Hub complete with Three-Speed Free Wheel.

Low gear: 15, 16, 17, 18, 19, 20 and 21 T.

Middle gear: 13, 14, 15, 16, 17 and 18 T.

Top gear: 12, 13, 14, 15, 16 and 17 T.

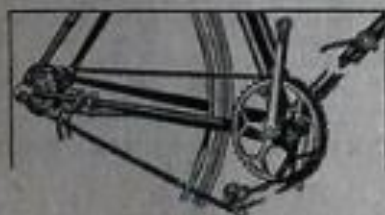
No. 25/H1597d/800 each 12/-

All Sprockets are interchangeable.

The Hub is specially designed to give correct clearance and Free Wheel support—all bearings are running in dust-proof grease-retaining cups. The width over packing washers is $4\frac{1}{4}$ ". No loose ball bearings. Extra large pawl—pawl action and ratchet are the strongest to be found in any existing free wheel—springs easily detached.

For cleaning and dismantling, one nut only to unscrew.

The only free wheel giving a 12 T. sprocket.



"CYCLO ACE" THREE-SPEED
CLOSE RATIO DERAILEUR CHAIN
SPEED GEAR

Complete with Aluminium Disc Spoke Protector, Triple Free Wheel, Chain Stay Clip and Chain Guide, Down Tube Jockey Arm, Seat Tube Chain Guide Clip, Twin Waterproof Covered Cable and Quadrant Lever and Clip.

For Solo Model only.

Low gear: 18, 19, 20 and 21 T. (fixed)

Middle gear: 17 and 18 T. (loose)

Top gear: 15, 16 and 17 T. (loose)

No. 25/H1603/1198 (Steel hub) .. each 17/6

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"CYCLO" TANK
INTERNAL EXPANDING BRAKE HUB
AND THREE-SPEED UNIT FREE
WHEEL COMBINED

With H-bar Lever and Cable Control.
40 Holes. Chromium Plated.

For Solo $1\frac{1}{4}$ " C.L.

No. 25/H1596L/1808 each 28/-

For Tandem $1\frac{1}{4}$ " C.L.

No. 25/H1596a/2000 each 30/-

Complete with "Cyclo" Deraileur Top Tube Control and Double Cog Jockey Tension System.

For Solo $1\frac{1}{4}$ " C.L.

No. 25/H1596r/2904 each 44/-

For Tandem $1\frac{1}{4}$ " C.L.

No. 25/H1596t/3209 each 49/-

Low gear: 17, 18, 19, 20 and 21 T.

Middle gear: 13, 14, 15, 16, 17 and 18 T.

Top gear: 12, 13, 14 and 15 T.

All Sprockets are interchangeable.

The Hub is specially designed to give correct clearance and Free Wheel support—all bearings are running in dust-proof grease-retaining cups. No loose ball bearings. Extra large pawl—pawl action and ratchet are the strongest to be found in any existing free wheel—springs easily detached.

For cleaning and dismantling, one nut only to unscrew.

The only free wheel giving a 12 T. sprocket.



"SIMPLEX" DERAILEUR REAR
STEEL CYCLE HUBS.

(Foreign.)

Specially screwed for use with three-speed gear and screwed opposite side for cog and lock ring. 40 holes. Chromium Plated.

No. 25/H1598b/404 each 5/9

FREE WHEEL AND SPROCKETS

Sizes $\frac{1}{2}$ " x $\frac{1}{2}$ ".

Boss Type and Selection Standard.

High Gear - 14, 15, 16 T. (loose).

Middle Gear - 15, 17, 18 T. (fixed).

Low Gear - 17 to 24 T. (loose).

Plain Type.

High Gear - 16 to 17 T. (fixed).

Middle Gear - 17 to 24 T. (loose).

Low Gear - 18 to 24 T. (loose).



"CYCLO" DERAILEUR REAR
CYCLE HUBS

Double Screwed for Triple and Single Free Wheel. Drilled 40 Holes. $4\frac{1}{4}$ " wide over packing washers.

No. 25/H1597e/300 Chromium each 4/6
25/H1597f/300 Gun Black .. 4/6



"CYCLO" DERAILEUR REAR
TANDEM HUB

Double Screwed for Single and Triple Free Wheels. $5\frac{1}{4}$ " wide over packing washers. Drilled 40 Holes.

No. 25/H1597h/404 Chromium each 5/6
25/H1597k/404 Gun Black .. 5/6



CYCLO "POLY" PROFESSIONAL
TYPE THREE-SPEED DERAILEUR
GEAR. Cadmium Plated parts.

Weight, less Triple Free Wheel, 11 oz. Complete with Top Tube single uncovered control and Triple Free Wheel.

Complete with "Cyclo" Rear Hub.
No. 25/H1615a/2300 Solo .. each 35/-

Without "Cyclo" Rear Hub.
No. 25/H1615p/2000 Solo .. each 28/-

Low gear: 18, 19 and 20 T.

Middle gear: 17 and 18 T.

Top gear: 14, 15 and 16 T.

Complete with "Cyclo" Unit Hub. Sprockets sizes as for Hub Unit. Complete Triple Free Wheel.

No. 25/H1615w/2304 Solo .. each 35/-

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HUBS—(THREE-SPEED)—continued

"CONSTRUCTOR OSGEAR" DERAILLEUR SUPER CHAMPION CHAIN SPEED GEAR. (Foreign.)
With Triple Plain Pattern Free Wheel, with smallest Cog 16 or 17 T., Middle Cog 17, 18 or 19 T. Large Cog 20, 21 or 22 T.

Steel Fitments.	
No. 25/H1604b/1408	Top Tube Control .. each 19/6
25/H1604e/1408	Down 19/6

Conloy Fitments.	
No. 25/H1604h/1505	Top Tube Control .. each 20/6
25/H1604m/1505	Down 20/6

With Triple Boss Pattern Free Wheel, with smallest Cog 14 or 15 T., Middle Cog 16 or 17 T. Large Cog 17, 18, 19 or 20 T.

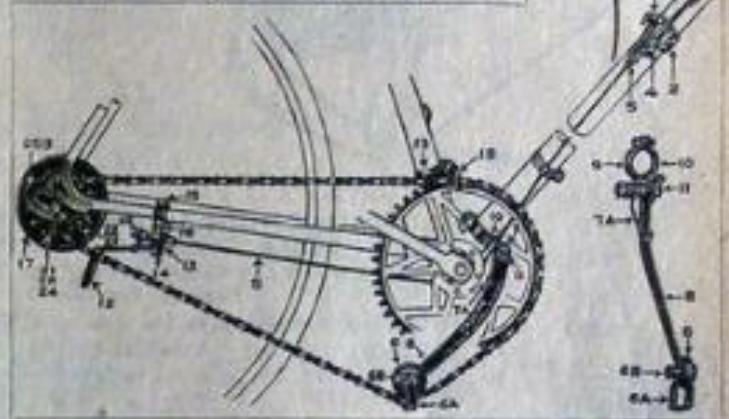
Steel Fitments.	
No. 25/H1605b/1505	Top Tube Control .. each 20/6
25/H1605e/1505	Down 20/6

Conloy Fitments.	
No. 25/H1605h/1602	Top Tube Control .. each 21/6
25/H1605m/1602	Down 21/6

"Osgear" Derailleur Rear Cycle Hubs, specially screwed for use with Triple Free Wheels with the other size screwed to take fixed cog and lock ring, 40 holes (less wing nuts).

No. 25/H1597m/702	Chromium Plated .. each 9/6
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For Cycles.
Complete with Aluminium Disc Spoke Protector, Chain Fork Guide Anchor, Triple Free Wheel, Chain Stay Clip and Chain Guide, Down Tube Jockey Arm, Seat Tube Chain Guide Clip, Waterproof Covered Cable and Cable Adjuster and Quadrant Lever and Clip.



"CONSTRUCTOR OSGEAR" DERAILLEUR SUPER CHAMPION "GRAND SPORT" CHAIN SPEED GEAR (Foreign.)

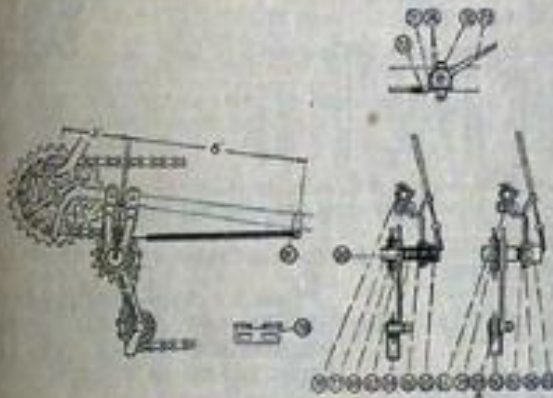
For Cycles.
Complete with Jockey Double Roller System, Triple Free Wheel, Waterproof Covered Cable and Quadrant Lever and Clip.

Double Sprocket Model. Steel Fitments.
With Triple Plain Pattern Free Wheel, with smallest Cog 16 or 17 T., Middle Cog 17, 18 or 19 T. Large Cog 20, 21 or 22 T.

Top Tube Control.	
No. 25/H1604r/1611	.. .. . each 22/6

With Triple Boss Pattern Free Wheel, with smallest Cog 14 or 15 T., Middle Cog 16 or 17 T. Large Cog 17, 18, 19 or 20 T.

Top Tube Control.	
No. 25/H1605r/1709	.. .. . each 23/6



"SIMPLEX" CHAMPION DERAILLEUR THREE-SPEED GEARS. (Foreign.)

With quick Detachable Tension Arm and Roller System Pulleys, Protector to prevent Chain Slipping off pulleys.

Complete with Cable Top or Down Tube Control and Free Wheels.

For Solo Machines.

Light Tourist Model No. 1.

Less Hub with Fork end fixing Plate Attachment for 1/4" Chain.

No. 25/H1607a/1611 each 22/6
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Light Tourist Model No. 2.

Less Hub with Chain Stay Bracket Clip to Braze on.

No. 25/H1609a/1809 each 25/-
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Professional Model No. 4.

Less Hub with Fork End Fixing Plate Attachment for 1/4" Chain.

No. 25/H1611a/2208 each 30/-
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"SIMPLEX" CHAMPION DU MONDE DERAILLEUR FOUR-SPEED GEARS. (Foreign.)

Professional Model No. 4.

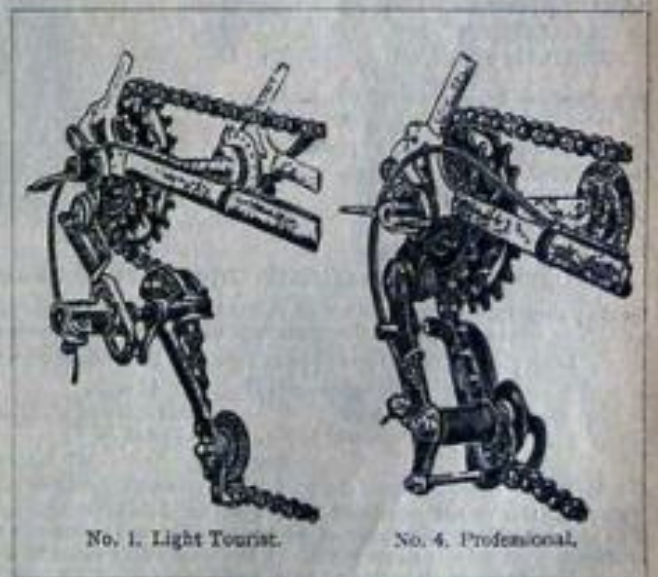
For Solo Machines less Hub with Fork End Fixing Plate Attachment for 1/4" Chain.

No. 25/H1611d/2502 each 33/6
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Can be supplied to suit Tandem Machines. *!!!* Extra .. 2/6

Sizes 25 to 30 T. can be supplied at an extra charge.

Can be supplied with Duralium Cogs in lieu of Steel Cogs at an extra charge.



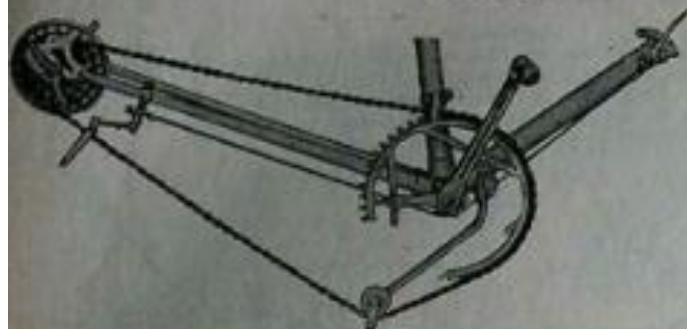
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HUBS (TWO- AND THREE-SPEED)—continued

"SIMPLEX" SELECTION STANDARD DERAILLEUR
THREE-SPEED GEAR. (Foreign.)

Complete with Aluminium Spoke Disc Protector, boss type Triple Free Wheel, Chain Stay Clip with patent Fork Arm Chain Guide, Jockey Arm with Down Tube Clip Fitting, Seat Tube Chain Guide Clip, Waterproof covered Cable with Down Tube Quadrant Lever and Clip, For $\frac{1}{8}$ " Chain.

All parts made of light metal alloy.

No. 25/H1612a/1408 Less Hub each 19/6

With Hub and Octagonal Detachable Cogs and Lock Ring.

No. 25/H1612e/3702 each 49/-

CYCLO "WITMY" IMPROVED PATENT TWO-SPEED CLOSE RATIO
DERAILLEUR ROLLER CHAIN SPEED GEAR

Complete with Single Waterproof Cable, Top Tube Control and Free Wheel.
Black and Chromium Plated Finish.

Weight, approximately 15 oz. less Hub.

Complete with "Cyclo" Rear Hub.

No. 25/H1614a/1300 For Solo .. each 19/6
25/H1614g/1508 .. Tandem .. 23/6

Complete without Rear Hub.

No. 25/H1614p/1000 For Solo .. each 15/-
25/H1614t/1104 .. Tandem .. 17/-

The following combination of Free Wheels
supplied from stock:—

16 T. x 17, 18, 19, 20 T. 17 T. x 18, 19, 20, 21 T.
18 T. x 19, 20, 21, 22 T. 19 T. x 20, 21, 22, 23 T.
20 T. x 21, 22, 23, 24 T. 21 T. x 22, 23, 24, 25 T.

Complete with "Cyclo-Unit" Hub
combined with Free Wheel.

Weight 26 oz.

Will fit any existing machine with
 $\frac{1}{4}$ " clearance between Fork Ends.
For Solo.

No. 25/H1614w/1304 .. each 20/-

The following combination of Sprockets
supplied from stock:—

13 x 14 T. 14 x 15 T. 15 x 16 T.
13 x 15 T. 14 x 16 T. 15 x 17 T.
13 x 16 T. 14 x 17 T. 15 x 18 T.
13 x 17 T. 14 x 18 T. 15 x 19 T.

Easily fitted to any machine without Gear Case. This Gear is suitable for use with ordinary Hubs as well as the "Cyclo." It is instantly removed, being held by the wheel spindle nut and one wing nut only.

For Roadster Cycle with $\frac{1}{2}$ " D Stays.

Gent's. Type SG. $\frac{1}{2}$ " x $\frac{1}{2}$ ".

No. 25/H1622b/1100 11" Ratio .. each 15/-
25/H1622c/1100 24" 15/-
25/H1622d/1100 36" 15/-

Lady's. Type SL.

No. 25/H1622e/1100 11" Ratio .. each 15/-
25/H1622f/1100 24" 15/-
25/H1622g/1100 36" 15/-

For Tandem Machines with extra length of
cable for $\frac{1}{2}$ " Round Chain Stays, $\frac{1}{2}$ " x $\frac{1}{2}$ ".

Double Gent's. Type T.

No. 25/H1622r/1206 11" Ratio .. each 17/-
25/H1622s/1206 24" 17/-
25/H1622t/1206 36" 17/-

VILLIERS TWO-SPEED GEARS.

Screwed $1\frac{1}{2}$ " x 24 T. to fit existing
hubs. Complete with top tube control.
Free Wheels and Fixed Cogs, less Hub.

Size 20/19 x 19/20 Giving 11% increase
.. 20/18 x 18/20 .. 24% ..
.. 21/18 x 18/21 .. 36% ..

For Racing Cycles with $\frac{1}{2}$ " Round Stays.

Gent's. Type RG. $\frac{1}{2}$ " x $\frac{1}{2}$ ".

No. 25/H1622h/1100 11" Ratio .. each 15/-
25/H1622k/1100 24" 15/-
25/H1622l/1100 36" 15/-

Lady's. Type RL.

No. 25/H1622m/1100 11" Ratio .. each 15/-
25/H1622n/1100 24" 15/-
25/H1622p/1100 36" 15/-

For Carrier Cycles with $\frac{1}{2}$ " D Stays.

Type C. $\frac{1}{2}$ " x $\frac{1}{2}$ ".

25/H1622x/1206 24" Ratio .. each 17/-

"SUPER-INAX" DERAILLEUR THREE-SPEED GEAR. (Foreign.)

Single pulley type with Protector to prevent chain slipping off, and aluminium disc
Spoke Protector. Complete with silver aluminium finish cable.

Lever Control to fit Top or Down Tube and Free Wheel with Sprockets.

Sprocket sizes $\frac{1}{2}$ " pitch x $\frac{1}{2}$ " wide.

Top Gear: 13, 14 and 15 T. Middle Gear: 16, 17 and 18 T.

Low Gear: 17, 18, 19, 20, 21 and 22 T.

For Solo.

No. 25/H1629/1609 each 22/6

Pulley arm is fixed to the inside of the fork end and held in position by shoulder between
fork end slot with securing nut and washer outside; also acting as a wheel stop. This
enables the wheel to be removed without disturbing the gear itself. In fact the wheel is
removed and replaced as on an ordinary single gear machine.



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HUBS (THREE-SPEED)—continued



"TRIVELOX" DERAILLEUR THREE-SPEED GEARS.
Double Cog Jockey Tension Model.

- Solo.
 $\frac{1}{2}$ " Round Chain Stays. $1\frac{1}{2}$ " C.L. $1\frac{1}{4}$ " T.T.C.
Model A1. Without Hub Brake.
 No. 25/H1620b/2108 Chromium .. each 32/6
 25/H1620c/2108 Black 32/6
Model A2. With Internal Expanding Hub Brake.
 Handlebar Control.
 No. 25/H1621b/2808 Chromium .. each 43/-
 25/H1621c/2808 Black 43/-
 Sprocket sizes $\frac{1}{2}$ " pitch x $\frac{1}{2}$ " wide
 High Gear 14, 15, 16, 17, 18 teeth
 Middle Gear 17, 18, 19, 20, 21 ..
 Low Gear .. 19, 20, 21, 22, 23, 24, 25, 26 ..

- Tandem, for Double Gear's.
 $\frac{1}{2}$ " Round Chain Stays. $1\frac{1}{2}$ " C.L. $1\frac{1}{4}$ " T.T.C.
Model A3. Without Hub Brake.
 No. 25/H1620m/2304 Chromium .. each 35/-
 25/H1620n/2304 Black 35/-
Model A4. With Internal Expanding Hub Brake.
 Complete with Handlebar Lever and Waterproof Cable Control to Hub.
 No. 25/H1621m/3004 Chromium .. each 45/6
 25/H1621n/3004 Black 45/6

Special Fork End Plates with Stay Eyes drilled can be supplied for bolting Jockey Pulley Guide Support to allow Quick Release of wheel without disturbing the Gear, in lieu of Chain Stay Clip Attachment.
 /204 For Cycles extra per pair 2/-
 /204 For Tandems 2/-
 Supplied with Cable-cum-Rod at same Price.

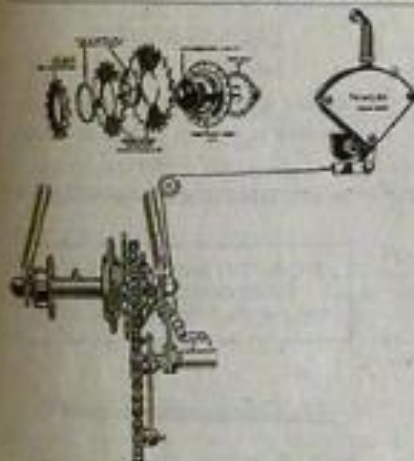
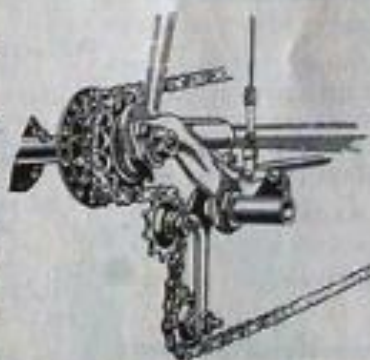
It is always best to build the gear side first, lacing the spokes as tight as possible before commencing on the opposite side. This should automatically show the correct dish required for centralising the rim.
NOTE.—Chain is in perfect alignment on all Model A gears.



"TRIVELOX" DERAILLEUR THREE-SPEED GEARS.

Double Cog Jockey Tension Model with Top Tube Control.

- Model B1. Solo without Hub Brake.**
 No. 25/H1619p/1804 Chromium .. each 27/6
Model B2. Solo with Internal Expanding Hub Brake.
 No. 25/H1619s/2504 Chromium .. each 38/-
 Sprocket sizes $\frac{1}{2}$ " x $\frac{1}{2}$ ".
 Top Gear 12, 13, 14, 15, 16 T.
 Middle and Low Gear 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28 T.
Model C1. Solo with Screw-on Free Wheel (without Hub).
 No. 25/H1619w/1608 each 25/-
Model C2. Tandem.
 No. 25/H1619x/1704 each 26/-
 Sprocket sizes, $\frac{1}{2}$ " x $\frac{1}{2}$ ".
 Top Gear 14, 15, 16, 17, 18 T.
 Middle Gear 17, 18, 19, 20, 21 T.
 Low Gear .. 19, 20, 21, 22, 23, 24, 25, 26 T.
 Sprockets for Model A are interchangeable with Model C.



"TRIVELOX" MODEL B HUB AND FREE WHEEL COMBINED

Complete with 3 sprockets. Suitable for most makes of Three-speed Derailleur Gears. Chromium Plated.

Sprocket sizes as for Model B.
 No. 25/H1619h/900 each 13/6

For Model A2 or B2 Solo $1\frac{1}{2}$ " C.L. with Brake for 26" x $1\frac{1}{2}$ " Endrick.
 Spokes $10\frac{1}{2}$ " x 13 x 15G S/B on brake side, laced over three.
 .. $9\frac{1}{2}$ " x 13 x 15G S/B on gear side, .. one.
 For Model A1 or B1 Solo $1\frac{1}{2}$ " C.L. without Brake for 26" x $1\frac{1}{2}$ " Endrick.
 Spokes $11\frac{1}{2}$ " x 15G or 15/17G on plain side, laced over four.
 .. $11\frac{1}{2}$ " x 13 x 15G S.B. on gear side, .. four.

For Model A4 Tandem $1\frac{1}{2}$ " C.L. with Brake for 26" x $1\frac{1}{2}$ " Rim.
 Spokes $9\frac{1}{2}$ " x 12/14G S/B on brake side, laced over two.
 .. $9\frac{1}{2}$ " x 12/14G S/B on gear side, .. one.
 For Model A3 Tandem $1\frac{1}{2}$ " C.L. without Brake for 26" x $1\frac{1}{2}$ " Rim.
 Spokes $11\frac{1}{2}$ " x 14G or 14/16G on plain side, laced over four.
 .. $9\frac{1}{2}$ " x 12/14G S/B on gear side, .. one.

Building and Spoke Lengths.

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HUB COGS

"B.B.L." HUB COGS

Screwed standard bore, 1 1/2" x 24 thread

1/2" Pitch x 1/2" wide.

12, 13, 14, 15, 16, 17 or 18 teeth.

No. 25/H1660g/6	.. ..	each	-/9
25/H1660g/509	.. ..	per doz.	—
25/H1660k/6	19 or 20 T.	each	-/9
25/H1660k/509	.. ..	per doz.	—
25/H1660m/7	21 or 22 T.	each	-/10
25/H1660p/9	24 T.	.. ..	1/2

1/2" Pitch x 3/8" wide.

14, 16 or 18 teeth.

No. 25/H1661g/6	.. ..	each	-/9
25/H1661g/509	.. ..	per doz.	—
25/H1661k/6	20 T.	each	-/9
25/H1661k/509	.. ..	per doz.	—
25/H1661m/7	22 T.	-/10
25/H1661p/9	24 T.	1/2

15 T. x 1/2" Pitch x 1/2" wide.

No. 25/H1663e/6	each	-/9
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1" Pitch.

6, 7, 8, or 9 teeth.

No. 25/H1666g/7	1" wide	each -/10
25/H1667g/7	3/4"	-/10



LIGHTWEIGHT HUB COGS

1/2" Pitch x 1/2" wide. Screwed 1 1/2" x 24 thread.

"B.W."

Central Cutout. 17, 18, 19 and 20 T.			
No. 25/H1684k/603	.. ..	doz.	9/-
Offset Plain. 14, 15 and 16 T.			
No. 25/H1685f/603	.. ..	doz.	9/-
Offset Cutout. 17, 18 and 20 T.			
No. 25/H1685k/603	.. ..	doz.	9/-
22 T.			
No. 25/H1685k/609	.. ..	doz.	10/-

"T.D.C."

Offset. Cadmium plated.

No. 25/H1700e/509	16 T.	Plain	doz. 9/-
25/H1700f/509	17 T.	.. ..	9/-
25/H1700g/509	18 T.	Cutout	.. 9/-
25/H1700h/509	19 T.	.. ..	9/-
25/H1700k/509	20 T.	.. ..	9/-



"B.B.L." HUB COGS

Not Hardened.

1" Pitch x 24 Thread.

1 1/2" Bore.

1/2" wide.

No. 25/H1670k/100	14 T.	.. ..	each 1/6
25/H1670k/104	16 T.	.. ..	2/-
25/H1670k/105	18 T.	.. ..	2/3
25/H1670k/108	20 T.	2/6
22 T. x 1/2" wide.			

1 1/2" Bore x 24 Thread.

No. 25/H1670m/111	each	3/-
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24 T. x 1/2" wide.

No. 25/H1670p/202	each	3/3
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3/8" wide. 1 1/2" Bore.

No. 25/H1671k/101	14 T.	each 1/6
25/H1671k/104	16 T.	2/-
25/H1671k/105	18 T.	2/3
25/H1671k/108	20 T.	.. ..	2/6

1 1/2" Bore x 24 Thread.

22 T. x 3/8" wide.

No. 25/H1671m/111	each	3/-
-------------------	-------	------	-----

24 T. x 3/8" wide.

No. 25/H1671p/202	each	3/3
-------------------	-------	------	-----

1/2" Pitch x 1/2" or 3/8"

1 1/2" Bore x 24 Thread.

No. 25/H1672/206	25 T.	.. ..	each 3/9
25/H1672/209	28 T.	.. ..	4/3
25/H1672/300	30 T.	.. ..	4/6
25/H1672/303	32 T.	.. ..	5/-
25/H1672/509	43 T. x 1/2"	.. ..	7/6

Stocked in above sizes.

We can also supply in a few days other sizes, from 14, rising by one tooth, to 60 teeth in 1/2" pitch x 1/2" or 3/8".



HUB COGS FOR "BAYLISS WILEY," UNIT COMBINED FREE WHEEL HUBS

Teeth specially machined to work with Derailleur Gear.

12, 13, 14, 15, 16, 17, 18, 19 and 20 T. 1/2" x 1/2"			
No. 25/H1687a/603	.. ..	doz.	9/-
21 and 22 T. x 1/2" x 1/2"			
No. 25/H1687l/609	.. ..	doz.	10/-

Standard Hub Sprockets will fit, but will not work satisfactorily with Derailleur gears. All sprockets are interchangeable on all gears.



"B.S.A." GENUINE HUB COGS

Screwed standard bore, 1 1/2" x 24 thread.

1/2" Pitch. No. 1 Pattern Central.

16, 18 or 20 teeth.

No. 25/H1651/102	1/2" wide	each 1/7
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1/2" Pitch. No. 2 Pattern Offset.

No. 25/H1652/102	18 T. x 1/2" wide	each	1/7
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1/2" Pitch. No. 3 Pattern Offset.

14, 15, 16, 17, 18, or 20 teeth.

No. 25/H1653/102	1/2" wide	each 1/7
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16, 18 or 20 teeth.

No. 25/H1654/102	3/8" wide	each 1/7
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1" Pitch. No. 3 Pattern Offset.

7, 8, or 9 teeth.

No. 25/H1655/102	1/2" wide	each 1/7
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25/H1656/102	3/8" wide	1/7
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1/2" Pitch. No. 4 Pattern Offset.

18 or 20 teeth.

No. 25/H1657/102	1/2" wide	each 1/7
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25/H1658/102	18 T. x 3/8" wide	1/7
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"CHATER LEA" HUB COGS

Screwed standard bore, 1 1/2" x 24 thread.

1/2" Pitch.

13, 14, 15, 16, 17 and 18 teeth.

No. 25/H1690g/10	1/2" wide	each 1/1
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19 and 20 teeth.

No. 25/H1690k/101	1/2" wide	each 1/6
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21 teeth.

No. 25/H1690m/104	1/2" wide	each 1/8
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For Carrier Hubs.

Screwed 1 1/2" x 24 thread. 1/2" pitch x 3/8".

No. 25/H1696m/106	22 teeth	each 1/11
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HUB COGS—continued



"BLUMFIELD"

$\frac{1}{2}$ " pitch x $\frac{1}{2}$ " wide.

Offset, Mottled Finish.

No. 25/H1688c/100	14 T. Plain	each 1/3 doz. —
25/H1688c/1103	..	each 1/3 doz. —
25/H1688d/100	15 T. ..	each 1/3 doz. —
25/H1688d/1103	..	each 1/3 doz. —
25/H1688e/100	16 T. Cutout	each 1/3 doz. —
25/H1688e/1103	..	each 1/3 doz. —
25/H1688f/100	17 T. ..	each 1/3 doz. —
25/H1688f/1103	..	each 1/3 doz. —
25/H1688g/100	18 T. ..	each 1/3 doz. —
25/H1688g/1103	..	each 1/3 doz. —



"PERRY" DOUBLE LIGHTWEIGHT HUB COGS

Screwed $1\frac{1}{2}$ " x 24 thread. $\frac{1}{2}$ " pitch x $\frac{1}{2}$ " wide.

No. 25/H1706c/106	14 & 17 T.	each 2/3
25/H1706d/106	15 & 18 T.	.. 2/3
25/H1706e/106	16 & 19 T.	.. 2/3
25/H1706f/106	17 & 20 T.	.. 2/3
25/H1706g/106	18 & 21 T.	.. 2/3
25/H1706k/106	16 & 18 T.	.. 2/3

"STURMEY-ARCHER" HUB COGS

To suit old Models A, K, N, TBC, BRC and BRT Hubs.

To suit current Models AT, ABC, BRC and BRT Hubs.

Screw-on Pattern 16, 17, 18, 19 and 20 teeth, $\frac{1}{2}$ " x $\frac{1}{2}$ " and 16, 18 T., $\frac{1}{2}$ " x $\frac{3}{8}$ ".

No. 25/H1707a/6	..	each -/9
-----------------	----	----------

To suit old Models KS and KSW.

To suit new Models AM, AR, TF and TC.

Splined or Slotted Pattern to push on.

No. 25/H1707p/8	14 T. x $\frac{1}{2}$ " x $\frac{1}{2}$ "	each 1/-
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15, 16, 17, 18, 19 and 20 teeth, $\frac{1}{2}$ " x $\frac{1}{2}$ ".

No. 25/H1707r/6	..	each -/9
25/H1707t/100	22 T. x $\frac{1}{2}$ " x $\frac{1}{2}$ "	.. 1/6



"VILLIERS" LIGHTWEIGHT HUB COGS

$\frac{1}{2}$ " pitch x $\frac{1}{2}$ " wide.

Offset. 6, 7, 8 and 9 T.

No. 25/H1708a/706	..	per doz. 11/-
Central. 6, 7, 8 and 9 T.	..	per doz. 11/-
No. 25/H1708k/706	..	per doz. 11/-
$\frac{1}{2}$ " pitch x $\frac{3}{8}$ " wide.	..	per doz. 11/-
Offset. 6, 7, 8 and 9 T.	..	per doz. 11/-
No. 25/H1709a/706	..	per doz. 11/-
Central. 6, 7, 8 and 9 T.	..	per doz. 11/-
No. 25/H1709k/706	..	per doz. 11/-
$\frac{1}{2}$ " pitch x $\frac{1}{2}$ " wide.	..	per doz. 11/-

Central.

Sizes: 12, 13, 14, 15, 16, 17, 18, 19, 20 T.

No. 25/H1710k/606	..	per doz. 10/-
21, 22 T.	..	per doz. 11/-

Offset.

12, 13, 14, 15, 16, 17, 18, 19, 20 T.

No. 25/H1711k/606	..	per doz. 10/-
21, 22 T.	..	per doz. 11/-

Note.—9 and 18 teeth and up are supplied in Cut-out pattern.



WILLIAM'S DUREEL SUPER LIGHTWEIGHT HUB COGS

Screwed $1\frac{1}{2}$ " x 24 thread, $\frac{1}{2}$ " pitch x $\frac{1}{2}$ " wide.

Offset Pattern.

No. 25/H1716a/111	14 T.	..	each 2/9
25/H1716t/111	15 T.	..	.. 2/9
25/H1716g/111	16 T.	..	.. 2/9
25/H1716h/111	17 T.	..	.. 2/9
25/H1716k/111	18 T.	..	.. 2/9
25/H1716l/202	19 T.	..	.. 3/-
25/H1716m/202	20 T.	..	.. 3/-

Central Pattern.

No. 25/H1717g/111	16 T.	..	.. 2/9
25/H1717l/202	19 T.	..	.. 3/-
25/H1717m/202	20 T.	..	.. 3/-

For Dureel Chain Wheels and Cranks, see page 78.

Other sizes to special order.



"CONSTRICTOR" HUB COGS LIGHT OFFSET PATTERN

$\frac{1}{2}$ " Pitch x $\frac{1}{2}$ " wide.

Sizes: 13, 14, 15, 16, 17, 18, 19, 20 teeth.

No. 25/H1702k/19	..	each 1/-
25/H1702k/7 $\frac{1}{2}$	lots of 5 and over	..

"CYCLO" PHOSPHOR-BRONZE LIGHT HUB COGS MACHINED

Specially made for Path Racing.

$\frac{1}{2}$ " pitch x $\frac{1}{2}$ " wide.

Sizes: 13, 14 T.

No. 25/H1703/360	..	each 1/-
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"B.B.L." COGS WITH BOSS

To suit cycle chain 305 dia. roller, $\frac{1}{2}$ " parallel bars

$\frac{1}{2}$ " pitch x $\frac{1}{2}$ " wide.

8, 9, 10, 11, 12 T.

No. 25/H1714/102	..	13, 14 T.
25/H1715c/104	..	15, 16, 17, 18 T.

No. 25/H1715g/110	..	19, 20 T.
25/H1715k/201	..	29 T.
25/H1715t/308	..	29 T.

$\frac{1}{2}$ " pitch x $\frac{3}{8}$ " wide.

No. 25/H1718/102	..	10, 12 T.
25/H1719c/103	..	14 T.
25/H1719g/110	..	16, 18 T.
25/H1719k/201	..	20 T.
25/H1719m/204	..	22 T.
25/H1719p/204	..	24 T.

8 T. 9 T. 10 & 11 T. 12 T.

Dia. of Boss, small end

$\frac{1}{2}$ "	$\frac{1}{2}$ "	$1\frac{1}{8}$ "
Overall Width.		

$\frac{1}{2}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	17 to 20
Dia. of Boss, small end			

$1\frac{1}{2}$ "	Overall Width.		
$\frac{1}{2}$ "	Overall Width.		

We can also supply specially to order few days, sizes:

21, 22, 23, 24 and 25 T. x $\frac{1}{2}$ " x $\frac{1}{2}$ ".
8, 9, 11, 13, 15, 17, 19, 21, 22, 23, 24 & 25 x $\frac{1}{2}$ " x $\frac{3}{8}$ ".

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HUB COGS—continued AND LOCK RINGS



HUB COG ADAPTERS AND LOCK RING

Inner bore is $\frac{1}{2}$ " plain. Outer thread is $1\frac{1}{2}$ " x 24. (Cog extra.)

No. 25/H1720/106 each 2/-
25/H1720/1609 doz. —

HUB COGS FOR DERAILLEUR GEARS

$\frac{1}{2}$ " pitch x $\frac{1}{2}$ " wide Right-hand thread.

For "Trivelox" 1936/7 Model.
High gear for three-speed with narrow flange on both sides, screwed $1\frac{1}{2}$ " bore.
14, 15, 16, 17 and 18 T.

No. 25/H1732c/108 each 2/-
Middle gear for three-speed with narrow flange on both sides, screwed $2\frac{1}{4}$ " bore.
17, 18, 19, 20 and 21 T.

No. 25/H1732f/108 each 2/-
Low gear for three-speed splined, not flanged.
20, 21, 22, 23, 24, 25 and 26 T.

No. 25/H1732k/106 each 2/-



"BLUMFIELD" LIGHTWEIGHT HUB LOCK RINGS

Mottled finish with four slots.
Standard size.

No. 25/H1740/4 each -/5
25/H1740/309 per doz. —



"B.W." HUB COG LOCK RINGS

Blued finish. Bevelled one side.
Standard size.

No. 25/H1741L/107 per doz. 2/6



"B.B.L." HUB COG LOCK RINGS

Standard size.

To suit cogs 6 T. x 1" or 12 T. x $\frac{1}{2}$ " pitch.
No. 25/H1741a/109 per doz. 2/8
To suit cogs 7 T. x 1" or 13 T. x $\frac{1}{2}$ " pitch and upwards.

No. 25/H1741d/105 per doz. 2/3
25/H1741d/1606 per gross. —

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HUB COGS FOR DERAILLEUR GEARS

$\frac{1}{2}$ " pitch x $\frac{1}{2}$ " wide.

For "Simplex."

High gear or small cog for boss type No. M3 with single flange. Screwed $1\frac{1}{2}$ " bore.

No. 25/H1730c/109 14, 15 and 16 T. each 2/3

Middle or low gear for plain No. H3 or low or high for boss type No. M3 Free Wheels, interchangeable with single flange. Screwed $2\frac{1}{4}$ " bore.

17, 18, 19, 20, 21, 22, 23 and 24 T.

No. 25/H1730k/108 each 2/3

25/H1730k/200 25 and 26 T. .. 2/8

25/H1730k/203 27 and 28 T. .. 3/-

25/H1730k/207 29 and 30 T. .. 3/5

High gear or small cog, push on octagonal bore with wide flange.

No. 25/H1731c/108 14, 15 and 16 T. each 2/3

Middle and low gear, push on octagonal bore with narrow flange.

15, 16, 17, 18, 19, 20, 21, 22, 23 and 24 T.

No. 25/H1731f/108 each 2/3

25/H1731f/200 25 and 26 T. .. 2/8

25/H1731f/203 27 and 28 T. .. 3/-

25/H1731f/207 29 and 30 T. .. 3/5

Duralumin cogs can be supplied at an extra charge to special order in a few days.

For "Constrictor Osgear."

High gear or small cog for boss type.
13, 14, 15 and 16 T.

No. 25/H1726c/103 each 1/8

Middle or low gear for plain or low or high for boss type free wheels, interchangeable.

With single flange Screwed $2\frac{1}{4}$ " bore.
17, 18, 19, 20, 21, 22 and 23 T.

No. 25/H1728k/105 each 1/10

High gear on plain and middle on Boss type are fixed to body of free wheel.



HUB COG LOCK RINGS "VILLIERS"

Dull plated. Rustless finish. Standard size.

For 12 or 13 T.

No. 25/H1741a/110 per doz. 3/-

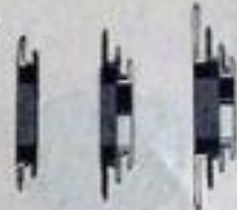
For 14 T. and upwards.

No. 25/H1741p/109 per doz. 2/6

"STURMEY-ARCHER"

Black finish to suit three-speed and two-speed fixed Hubs K 36.

No. 25/H1741m/4 each -/6



HUB COGS FOR DERAILLEUR GEARS

$\frac{1}{2}$ " pitch x $\frac{1}{2}$ " wide.

For "Cyclo" and "Whitby."

Low gear for two-speed with single flange screwed $2\frac{1}{2}$ " bore. Left-hand thread.

17, 18, 19, 20, 21, 22, 23, 24, 25 and 26 T.

No. 25/H1725a/106 each 2/-

High gear or small cog for three-speed or 1st gear on four-speed, with single flange, screwed $1\frac{1}{2}$ " outside. Right-hand thread.

13, 14, 15, 16, 17 and 18 T.

No. 25/H1725c/104 each 1/9

Middle gear for three-speed or second gear for four-speed with double flange, screwed $2\frac{1}{4}$ " bore and $1\frac{1}{2}$ " bore. Right-hand thread.

17, 18, 19, 20, 21 and 22 T.

No. 25/H1725f/108 each 2/3

Low gear for four-speed with single flange, screwed $2\frac{1}{4}$ " bore. Left-hand thread.

25, 26 and 28 T.

No. 25/H1725m/108 each 2/3

For "Cyclo" Unit Combined Free Wheel Hubs.

Teeth specially machined to work with Derailleur gears.

12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25 and 26 T. x $\frac{1}{2}$ " x $\frac{1}{2}$ ".

No. 25/H1725t/111 each 1/3

Standard Hub Sprockets will fit, but will not work satisfactorily with Derailleur gears. All sprockets are interchangeable on all gears.

12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25 and 26 T. x $\frac{1}{2}$ " x $\frac{1}{2}$ ".

No. 25/H1725t/111 each 1/3

Standard Hub Sprockets will fit, but will not work satisfactorily with Derailleur gears. All sprockets are interchangeable on all gears.



"CHATER LEA"

With two pin holes. Blued. No. 1427-1.

To suit cogs 6 T. x 1" or 13 T. x $\frac{1}{2}$ " pitch.

No. 25/H1742a/500 per doz. 6/7

To suit cogs 7 T. x 1" or 14 T. x $\frac{1}{2}$ " pitch and upwards. No. 1427.

No. 25/H1742d/402 per doz. 5/6

To suit Carrier Hubs No. 491.

Screwed $1\frac{1}{2}$ " x 24 T. (No. 1406).

No. 25/H1742g/500 per doz. 6/7



HUB COG SPACING OR PACKING WASHERS

$1\frac{1}{2}$ " bore x $\frac{1}{16}$ " thick.

No. 25/H1746a/8 "B.B.L." per doz. 1/-

"Chater Lea."

No. 25/H1746c/9 per doz. -/11

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HUB REPAIR PARTS

REPLACEMENT PARTS FOR "NEW-DEPARTURE" COASTER HUBS. 1913 TO 1924 MODELS



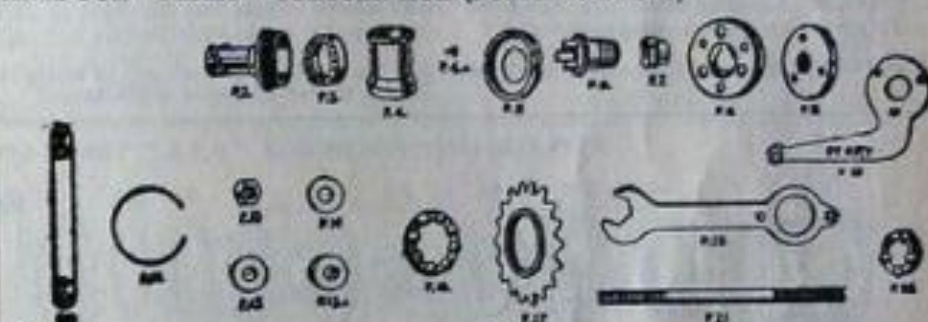
No.	25/HA1/302	Hub Shell ..	each	4/9
	25/HA2/106	Driver ..	..	2/3
	25/HA3/100	Clutch Sleeve ..	..	1/6
	25/HA4/6	Spindle, without nuts and cones ..	..	-/9
	25/HA5/6	Lock Nut for Sprocket ..	..	-/9
	25/HA6/100	Brake Clutch ..	..	1/6

No.	25/HA7/3	Cone (adjusting) ..	each	-/4
	25/HA8/13	Brake Box (obsolete, withdrawn)		
	25/HA9/13/10	Brake Disc or Cover ..	each	1/3
	25/HA10/13	Brake Arm, with bolt and nut (less clip) (obsolete, withdrawn)		

No.	25/HA11/13	Clip, with one bolt and nut (for brake arm) (obsolete, withdrawn)		
	25/HA12/6	Transfer Spring or Sleeve ..	each	-/9
	25/HA13/106	Spindle Nut ..	doz.	2/-
	25/HA14/6	Washer, plain (thin) ..	..	-/9
	25/HA14t/100	Washer, plain (thick) ..	..	1/6
	25/HA15/106	Convex Washer ..	..	2/-
	25/HA16/6	Ball Cage, large (with balls) ..	each	-/9
	25/HA17	Sprocket (obsolete, withdrawn)		
	25/HA19/6	Spanner ..	..	-/9
	25/HA20/6	Ball Cage, small (with balls) ..	..	-/8

REPLACEMENT PARTS FOR "PERRY" COASTER HUB (POSITIVE DRIVE)

No.	25/HP2/106	Driver ..	each	2/3
	25/HP3/6	Positive Collar ..	..	-/9
	25/HP4	Positive Sleeve (obsolete, withdrawn)		
	25/HP4a/9	Screws (for 25/HP4) ..	doz.	1/2
	25/HP5/6	Lock Nut ..	..	-/9
	25/HP6/100	Brake Clutch ..	..	1/6
	25/HP7/300	Cone ..	per doz.	4/6
	25/HP8	Brake Box (obsolete, withdrawn)		
	25/HP9	Brake Cover (Ditto)		
	25/HP10/100	Brake Arm, with one bolt and nut (less clip) ..	each	1/6
	25/HP11	Clip, with one bolt and nut (for brake arm) (obsolete, withdrawn)		
	25/HP12/100	Drag Spring ..	doz.	1/6
	25/HP13/106	Axle Nut ..	..	2/-
	25/HP14/6	Washer (thin) ..	..	-/9
	25/HP15/100	.. (convex) ..	..	2/-



No.	25/HP15a/100	Washer (thick) ..	doz.	1/6
	25/HP16/6	Ball Cage, large (with balls) ..	each	-/9
	25/HP17	*Sprockets (obsolete, withdrawn)		

No.	25/HP19/6	Spanners ..	each	-/9
	25/HP20/6	Ball Cage, small (with balls) ..	..	-/8
	25/HP21/6	Axle ..	..	-/9

REPLACEMENT PARTS FOR "PERRY" OR "B.W." IMPROVED COASTER HUB (FRICTION DRIVE).



No.	25/HP301/106	Complete ..	per doz.	2/3
	25/HP302/9	Locking Washer ..	..	1/3

No.	25/HP303	(obsolete, withdrawn)		
	25/HP304/2	Notched Washer ..	..	-/6
	25/HP305/206	Brake Arm ..	..	3/6

No.	25/HP306/107	Brake Cone ..	each	2/-
	25/HP307/3	Dust Cap ..	per doz.	-/6
	25/HP308/201	Ball Ring & Balls ..	..	3/-
	25/HP309/409	Hub Shell & Lubricator ..	..	6/-
	25/HP310/105	Brake Cylinder ..	1/10	
	25/HP311/107	Brake Actuator ..	..	2/1
	25/HP312/11	Roller Guide Line ..	..	1/2
	25/HP313/5	Driving Rollers ..	doz.	-/6
	25/HP314/7	Sprocket ..	..	-/10
	25/HP315/105	Driving Sleeve ..	..	1/10
	25/HP316/5	Dust Cap ..	per doz.	-/6
	25/HP317/203	Sprocket Lock Ring ..	..	3/-
	25/HP318/9	Axle and Cone ..	..	11
	25/HP319	Curved Washer (obsolete, withdrawn)		
	25/HP320/11	Axle Nuts ..	doz.	1/6
	25/HP321/102	Spanner	1/9
	25/HP322/201	Step	3/-

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HUB REPAIR PARTS—continued

REPLACEMENT PARTS FOR "EADIE" COASTER HUB WITH POSITIVE DRIVE.

No.		
25/H61r/407	Shell, with Cups and Serrated Ring ..	each 6/1
25/H62r/108	Friction Plate ..	2/3
25/H63r/101	Brake Spring and Phosphor Bronze Ring ..	1/5
25/H64r/101	Brake Cone and Lever ..	1/5
25/H65r/7	Brake Lever ..	-/9
25/H66r/10	Clutch Nuts with Springs and Screws ..	1/1
25/H67r/9	R.H. Caps ..	-/11
25/H68r/106	Driving Screw ..	1/11
25/H69r	Chain Rings (see page 171.)	
25/H70r/8	L.H. Caps ..	each -/8
25/H71r/5	Chain Stay Clips, complete ..	-/7
25/H72r/5	Lock Nuts, with Oil-hole Cover ..	-/7
25/H73r/2	Ball Retainers (with Balls) large ..	-/3
25/H74r/2	Doitto, ditto, small ..	-/3
25/H75r/10	Clutch Nut Spring ..	doz. 1/1
25/H76r/500	Adjusting Cone ..	6/9
25/H77r/10	Clutch Nut Spring Screw ..	1/1

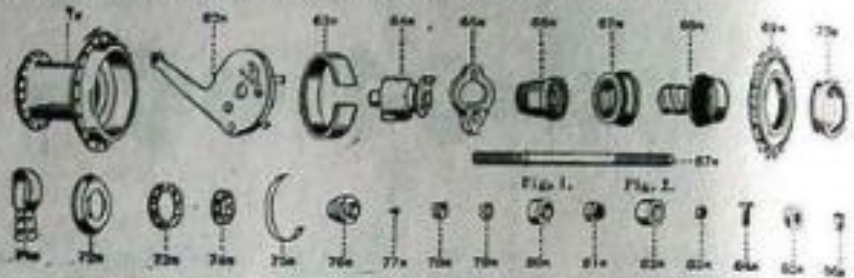


Fig. 1. For Cam Adjustment.

Fig. 2. For Draw Bar Adjustment.

No.		
25/H78r/10	Split Collar, narrow ..	1/1
25/H79r/10	" " wide ..	1/1
25/H80r/108	Packing piece for B.S.A. Spindles ..	2/3
25/H81r/108	Spindle Collar ..	2/3
25/H82r/108	Packing piece for Round Spindles ..	2/3
25/H83r/10	Chain Stay Clip Nut ..	1/1
25/H84r/10	Chain Stay Clip Screw ..	1/1

No.		
25/H85r/108	Spindle Nuts ..	doz. 2/3
25/H86r/108	Lubricator ..	2/3
25/H87r/705	Spindle fitted with (No. 25/H81r) Collar ..	10/-
25/H88r/500	Lock Ring for 1 1/2" chain line ..	6/9
25/H89r/10	Eccentric Stop Pin for Expanding Brake ..	1/1

NOTE.—Right-hand Cups and Clutch Nuts of the Positive Drive pattern will in future be supplied in place of those of the Friction type, the latter now being obsolete.

REPLACEMENT PARTS FOR "B.S.A." THREE-SPEED GEARS.



No.		
25/H182a/211	Shell ..	each 3/10
25/H183a/204	Sliding Carrier, only ..	4/5
25/H183ac/407	Sliding Carrier, fitted with Pawls, Pegs and Springs ..	6/1
25/H184a/205	Right-hand Cup or Driving Ratchet, new pattern, complete with 25/H188a ..	3/-
25/H185a/204	Pinion Carrier, only ..	3/-
25/H186a/108	Driving Piece ..	2/3
25/H187a/204	End Plate, only ..	3/-
25/H187ac/209	End Plate, fitted with Pawls, Pegs and Springs ..	3/8
25/H189a/4	Plate for Sliding Carrier ..	-/5
25/H190a/108	Cover for Right-hand Cup or Driving Ratchet ..	doz. 2/3

No.		
25/H191a	Hub Rings (see page 171.)	
25/H192a/309	Spindle, with fixed cone and locking piece ..	each 5/-
25/H192ac/509	B.S.A. Spindle, complete with the following parts: 192a, 193a, 194a, 195a, 196a, 199a, 200a, 201a, 202a, 206a, 208a, 209a, ..	7/9
25/H193a/108	Coupling Screw ..	doz. 2/3
25/H194a/108	Coupling Rod Spring ..	2/3
25/H195a/108	Coupling Screw Spring ..	2/3
25/H196a/7	Chain and Connecting Rod ..	each -/9
25/H197a/10	L.H. Cone Washer ..	doz. 1/1
25/H198a/204	Stud Pinion ..	4/5

No.		
25/H199a/108	Ball Retainer, 1/4" ..	doz. 2/3
25/H200a/108	Ball Retainer, 3/8" ..	2/3
25/H201a/206	Actuating Screw Nut ..	2/3
25/H202a/4	Cone Cover ..	each -/4
25/H203a/5	Adjusting Cone with small diameter dust cover or washer to suit Hubs up to 1935 pattern ..	each -/4
25/H203ac/8	Adjusting Cone with large diameter dust cover or washer to suit Hubs 1935/6 pattern ..	each -/4
25/H204a/7	Fixed Cone ..	2/3
25/H205a/10	Cone Locking Piece ..	doz. 2/3
25/H206a/206	Actuating Screw ..	2/3
25/H208a/10	Coupling Bush ..	2/3
25/H209a/10	Bush for Spindle ..	2/3
25/H210a/10	Pinion Peg ..	2/3
25/H211a/108	Sliding Carrier Pawl Peg ..	2/3
25/H212a/10	Pawl Peg ..	2/3
25/H213a/108	Actuating Pin ..	2/3
25/H214a/5	Oil-hole Cover ..	2/3
25/H215a/4	Split Pin ..	2/3
25/H216a/5	Toggle Connection Piece Nut ..	2/3
25/H217a/108	End Plate Pawl ..	2/3
25/H218a/108	Sliding Carrier Pawl ..	2/3
25/H219a/4	Pawl Spring ..	2/3
25/H220a/5	Step ..	each -/4
25/H221a/5	Guide Nut ..	2/3
25/H222a/2	Cone Packing Washer ..	doz. 2/3
25/H223a/5	Spindle Cover Nut (Lady's) ..	each -/4
25/H224a/10	Spindle Fixing Washer ..	doz. 1/1
25/H230a/206	Three-speed Hub Spanner ..	3/1

NOTE.—Part No. 25/H188a cannot be supplied separate, only supplied combined with 25/H184a. In ordering, the Chain line should be stated, and special mention made when required for use with machines built of B.S.A. Fittings.

For Prices of Control Parts, see page 183.

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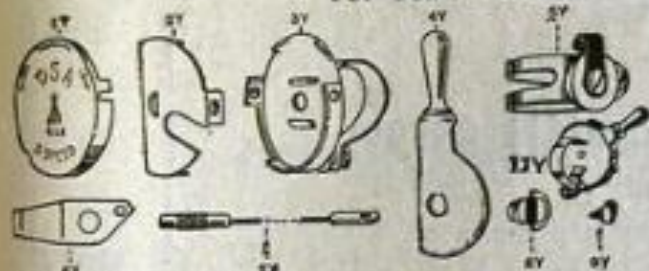
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HUB REPAIR PARTS—continued

TOP TUBE CONTROL PARTS FOR "B.S.A." THREE-SPEED



No. 25/H11y/5	Cover Plate	each	-/7
25/H2y/108	Connecting Plate	doz.	2/3
25/H3y/10	Back Plate, with Clip, Bolt and Screw	each	1/1

No. 25/H4y/5	Lever, complete	each	-/7
25/H5y/8	Guide Clip, with Bolt and Nut complete .. .. .	..	-/10
25/H6y/10	Control Spring	doz.	1/1
25/H7y/8	Control Wire, with Connection	each	-/10
25/H8y/108	Control Connecting Rivet	doz.	2/3
25/H9y/10	Control Cover Screw .. .. .	..	1/1
25/H10y/304	Top Tube Control, complete, with Guide Clip	each	4/5
25/H11y/201	Control Lever, assembled with Clip, Bolt and Nut .. .. .	..	2/9
25/H12y/108	Cable Connecting Tube	doz.	2/3

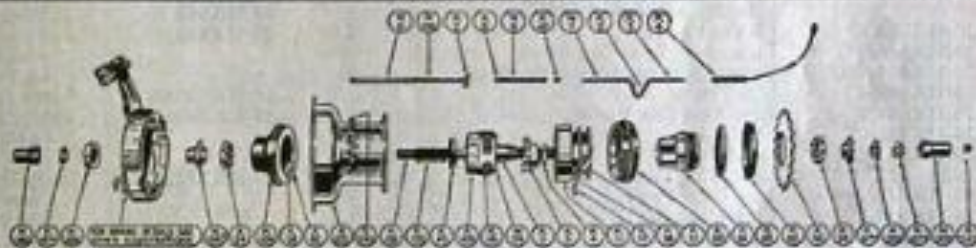
HANDLEBAR CONTROL PARTS FOR "B.S.A." THREE-SPEED

No. 25/H12x/108	Lever Caps, top	doz.	2/3
25/H13x/108	.. .. . bottom .. .. .	..	2/3
25/H15x/208	.. .. . top half of Clips .. .. .	..	3/4
25/H16x/208	.. .. . Clip Bolt and Nut .. .. .	..	3/4
25/H17x/208	Control Lever, assembled	each	3/7
25/H18x/8	Cable Outer Casing .. .. .	..	-/10
25/H19x/108	.. .. . Connecting Tube	doz.	2/3
25/H20x/10	.. .. . Caps .. .. .	..	1/1
25/H21x/10	.. .. . Wire Nipple .. .. .	..	1/1
25/H22x/8	.. .. . Wire and Nipples	each	-/10



No. 25/H23x/4	Cable Stop Clip only	each	-/5
25/H24x/5	.. .. . Pin and Nut	doz.	-/6
25/H25x/8	.. .. . Guide Clip, complete	each	-/10
25/H26x/108	.. .. . Guide Pulley only	doz.	2/3
25/H27x/500	Handlebar Control, complete with Cable, Guide and Stop Clip .. .. .	..	6/7
25/H28x/108	Cable Screws and Nuts	doz.	2/3
25/H29x/10	.. .. . Brass Connection .. .. .	..	1/1

WE CARRY LARGE AND REGULAR STOCKS OF PARTS FOR COASTER HUBS AND SPEED GEARS. ORDERS PROMPTLY DESPATCHED



REPLACEMENT PARTS FOR "STURMEY-ARCHER" THREE-SPEED INTERNAL EXPANDING BRAKE HUBS MARK "KB" OLD PATTERN OR "AB" NEW PATTERN CYCLE AND "KT" OLD PATTERN OR "AT" NEW PATTERN TANDEM

No. 25/HK10c/104	Cam Lever Nut or K175	doz.	2/-
25/HK101/208	Axle, 6"	each	4/-
25/HK101a/208	Axle (Tandem), 6 1/2" .. .. .	..	4/-
25/HK102/304	Hub Shell (40 holes) .. .. .	..	5/-
25/HK102a/304	Hub Shell (36 .. .) .. .. .	..	5/-
25/HK103/204	Planet Cage .. .. .	..	3/6
25/HK103x/308	Planet Cage with Pinions .. .. .	..	5/6
25/HK104/204	L.H. Ball Cup .. .. .	..	3/6
25/HK104x/210	L.H. Ball Cup with Pawls .. .. .	..	4/3
25/HK105/8	L.H. Cone with Cone Cover Cap (K59) .. .. .	..	1/-
25/HK106/31	L.H. Adjustable Washer .. .. .	..	-/5
25/HK107/108	Brake Arm .. .. .	..	2/6
25/HK108cx/210	Brake Shoe with Friction Lining (K115) and Spring to suit	pair	4/3
25/HK112/31	Brake Operating Cam with K114 Washer for K107	each	-/5
25/HK115/102	Friction Linings with 5 Rivet Holes (Old Type) .. .. .	..	pair 1/8
25/HK116/104	Brake Shoe Spring with Long Hook (Old Pattern)	doz.	2/-
25/HK117/104	Fulcrum Sleeve for K107 .. .. .	..	2/-
25/HK123/104	Rivet for Brake Lining 1/2" long x 1/8" dia. gross	doz.	2/-
25/HK124/104	Brake Arm Clip (Sports Model, Round)	doz.	2/-
No. 25/HK125/104	Cage End Cap Spring	doz.	2/-
25/HK134/104	Brake Shoe Spring .. .. .	..	2/-
25/HK135/8	Oil Ceiling Washer for L.H. Ball Clip .. .. .	..	1/-
25/HK136/102	Brake Linings with 5 Rivet Holes per pair .. .. .	..	1/8
25/HK751/104	Axle, 6 1/2" long for 1 1/2" chain line (Tandem) .. .. .	..	each 2/-
25/HK751x/110	Ditto, with K754 Sun Pinion (Tandem) .. .. .	..	2/9
25/HK751a/104	Axle 6 1/2" (Tandem) .. .. .	..	2/-
25/HK751ax/110	Axle 6 1/2" with K754 Sun Pinion (Tandem) .. .. .	..	2/9
25/HK752x/504	Shell 40 Holes (Tandem) .. .. .	..	8/-
25/HK752ax/504	Shell 36 holes (Tandem) .. .. .	..	8/-
25/HK754/8	Sun Pinion 20 T. (NCCH) (Tandem) .. .. .	..	-/8
25/HK755/10	Sliding Clutch "AT" (NCCH) (Tandem) .. .. .	..	1/3
25/HKZ3/408	Axle, 6" with Sleeve and Indicator .. .. .	..	each 7/-
25/HKZ4/408	Axle, 6 1/2" .. .. .	..	7/-
25/HKZ9/308	Axle, 6" complete with Sleeve, less Indicator .. .. .	..	5/3
25/HKZ10/308	Axle, 6 1/2" .. .. .	..	5/3
25/HN43/104	Brake Arm Clip (Cycle ordinary)	doz.	2/-
25/HS386/8	Brake Arm Clip Thumb Nut (Sports Model) .. .. .	..	1/-
25/HS546/8	Brake Arm Clip Thumb Screw (Sports) .. .. .	..	1/-
25/HX90/8	Brake Arm Clip Bolt (Cycle ordinary) .. .. .	..	1/-

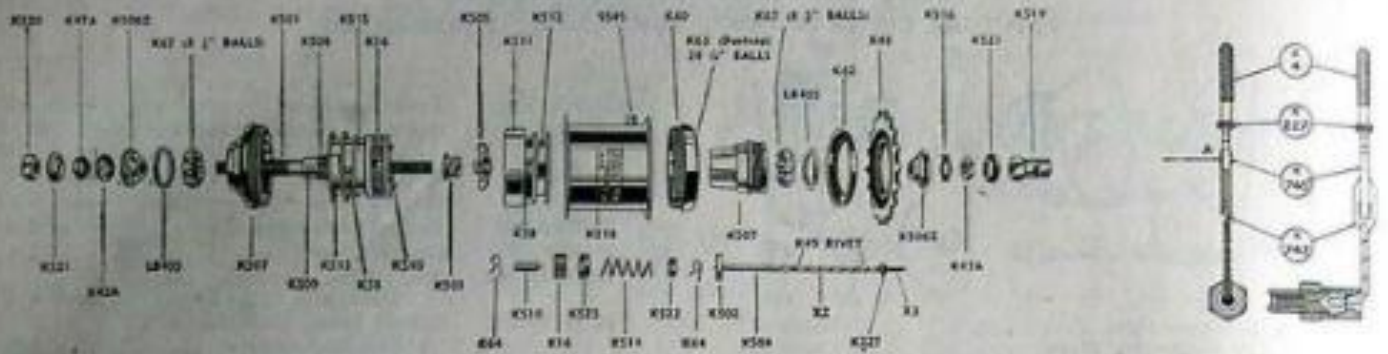
For Prices of parts for "Perry" Three-Speed Brake Hubs, other than above parts for "KB," see same interchangeable parts listed under "Sturmey-Archer" Mark "K" or "KS" Pattern. Prices of all other parts see same interchangeable Part Nos. listed under Mark "K." Prices of Control Parts, see pages 185, 187 and 188.

Branches: Aberdeen, Arona, Belfast, Birmingham, Bournemouth, Bristol, Cardiff, Carnon, Coventry, Dublin, Dundee, Edinburgh, Glasgow, London, Liverpool, Manchester, Newcastle, Nottingham, Southampton, Swansea, Tyneside, Wolverhampton.

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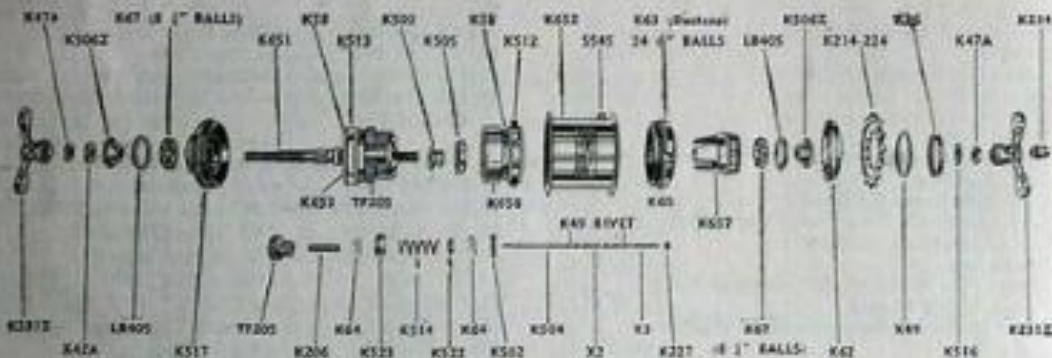
HUB REPAIR PARTS—continued



REPLACEMENT PARTS FOR "STURMEV-ARCHER" THREE-SPEED GEARS. MARK "AW" PATTERN

No.	Description	No.	Description
25/HDD5978/106	Driver Holder for Sprocket Removal for Mark "A" range of Hubs .. each 2/3	25/HK517/108	Left-hand Ball Cup .. each 2/4
25/HK501/100	Axle only, 5 1/4" long .. 1/6	25/HK518/208	Shell, 40 holes, for 13 G. spokes .. 4/-
25/HK501a/100	Axle, 6 1/4" long .. 1/6	25/HK518a/208	Shell, 36 holes, for 13 G. spokes only .. 4/-
25/HK501ac/105	Axle, 6 1/4" long, fitted with Sun Pinion .. 2/1	25/HK519/208	Shell, 40 holes, for 14 G. spokes .. 4/-
25/HK501x/105	Axle, 5 1/4" long, fitted with Sun Pinion .. 2/1	25/HK519/4	Right-hand Axle Nut 1/6
25/HK502/104	Axle Key .. doz. 2/-	25/HK520/104	Left-hand Axle Nut doz. 2/-
25/HK503/208	Sleeve 4/-	25/HK521/8	Axle Lock Washer 1/-
25/HK504ax/8	Indicator Spindle, 2 1/4" long, with chain and connection for K501a .. each 1/-	25/HK522/8	Clutch Spring Cap 1/-
25/HK504x/8	Indicator Spindle, 2 1/4" long, with chain and connection for K501 .. 1/-	25/HK523/8	Cap for Axle Key 1/-
25/HK505/8	Sliding Clutch 1/-	25/HK657/200	Driver, without LB405 Dust Cap .. each 3/-
25/HK506x/7	Cone, with Dust Cap fitted 1/10	25/HLB404/8	Cone Dust Cap doz. 1/-
25/HK507/200	Driver, without LB405 Dust Cap .. 3/-	25/HLB405/100	Dust Cap for L.H. Ball Cup or Driver .. 1/6
25/HK508/4	Sun Pinion 1/6	25/H8545/8	Lubricator 1/-
25/HK509/8	Dowel for Sun Pinion .. doz. 1/-	25/HK42a/8	Left-hand Packing Washer 1/4" thick (omitted if Hub is required only 4 1/2" wide overall) .. 1/-
25/HK510a/8	Pinion Pin 1/-	25/HK740x/6	Screwed Connection with K741 Spring each -/8
25/HK511/200	Gear Ring each 3/-	25/HK742x/8	Indicator, 2 1/4" long, with Chain and Connector Plate for K751, K501 and K651 Axles 1/-
25/HK512/200	Gear Ring Pawl doz. 3/-	25/HK742ax/8	Indicator, 2 1/4" long, with Chain and Connector Plate for K501a and K651a Axles 1/-
25/HK513/200	Low Gear Pawl 3/-	25/HK742bx/8	Indicator, 2 1/4" long, with Chain and Connector Plate for K751a Axle .. 1/-
25/HK514/8	Clutch Spring 1/-		
25/HK515/204	Planet Cage each 3/6		
25/HK516/8	Right-hand Cone Locking Washer .. doz. 1/-		

For Prices of all other Parts, see same interchangeable Part Nos. listed under Mark "K." For Prices of Control Parts, see pages 185, 187 and 188.



REPLACEMENT PARTS FOR "STURMEV-ARCHER" THREE-SPEED GEARS. MARK "AM" PATTERN

No.	Description	No.	Description
25/HK36	Lock Rings, see page 170.	25/HK652a/208	Shell, 36 holes each 4/-
25/HK206/104	Pinion Pin doz. 2/-	25/HK653/204	Planet Cage 3/6
25/HK214 to 224	Sprockets, see page 169.	25/HK657/200	Driver, without LB405 Dust Cap .. 3/-
25/HK651/202	Axle, 5 1/4" long each 3/3	25/HK658/200	Gear Ring 3/-
25/HK651a/202	Axle, 6 1/4" long 3/3	25/HTF205/100	Planet Pinion 1/6
25/HK652/208	Shell, 40 holes 4/-		

For Prices of all other Parts, see same interchangeable Part Nos. listed under Mark "K" and "KSW" Pattern. For Prices of Control Parts, see pages 185, 187 and 188.

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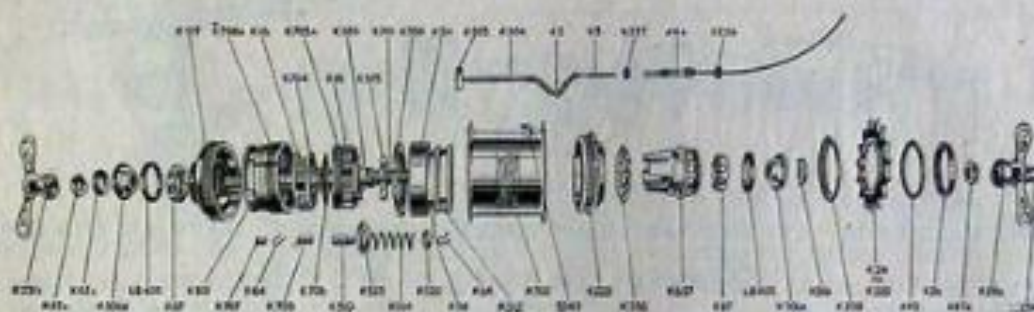
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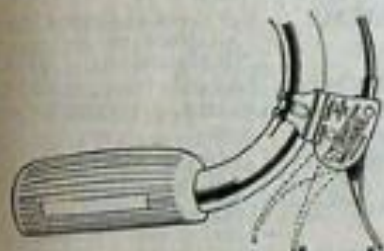
HUB REPAIR PARTS—continued



REPLACEMENT PARTS FOR "STURMEY-ARCHER" GEARS, MARK "AR" PATTERN

No.		No.	
25/HK214 to 220	Sprockets, see page 169.	25/HK704/200	Intermediate Planet Cage each 3/-
25/HK701/202	Axle (Standard) each 3/3	25/HK705/8	Intermediate Pinion Pin doz. 1/-
25/HK701a/202	Axle (extra long) 3/3	25/HK706/4	Spacing Shim (fitted between the two planet cages) -/6
25/HK702a/208	Shell, 36 holes 4/-	25/HK707/8	Low Gear Pawl Pin 1/-
25/HK702r/208	Shell, 40 holes 4/-	25/HK708a/200	Left-hand Gear Ring each 3/-
25/HK703a/108	Planet Cage 2/6	25/HK709/2	Cage Locking Ring -/3

For Prices of all other Parts, see same interchangeable Part Nos. listed under Mark "K," "KS" and "KSW" Patterns.
For Prices of Control Parts, see pages 187 and 188.



"STURMEY-ARCHER" HANDLEBAR TRIGGER CONTROL

Complete with quick release connection. Suitable to use with Model "AM" and "AR," also for "AW" when fitted with quick release fittings.

No. 25/HK974/304	For Solo No. GA249z each 5/-
25/HK975/400	For Tandem No. GA249az 6/-

REPLACEMENT PARTS FOR ABOVE HANDLEBAR TRIGGER CONTROLS

No.		No.	
25/HGA249/308	Quadrant, complete with Fixing Screw and Nut and Cable Ferrule .. each 4/-	25/HK735/4	Wire Nipple doz. -/6
25/HK226/8	Wire Grip doz. 1/-	25/HK735z/102	Inner and Outer Wires complete with nipples, Solo, 58" long .. each 1/8
25/HK227/8	Lock Nut for Knurled Connection X4 .. 1/-	25/HK735az/103	Inner and Outer Wires complete with nipples, Tandem, 72 1/2" long .. 1/10
25/HK731/4	Rivets -/6	25/HK735g/8	Inner Wires with Nipple for cycle .. -/8
25/HK733a/8	Springs 1/-	25/HK735h/7	" " " " for Tandem .. -/10
25/HK734/8	Cable Ferrule 1/-	25/HX82/8	Outer Cable, 20" long 1/-

Prices of all other Parts, see same interchangeable Part Nos. listed under Top Tube Control Parts, pages 187 and 188.

"STURMEY-ARCHER" HUB REPLACEMENT PARTS DISPLAY AND STOCK CABINET

Containing good assortment of all popular selling spares. Cabinet made of plywood and polished, with divisions and hinged lid. This is a Cabinet every agent should have in his shop, as it enables him to keep his stock clean and always at hand.

No. 25/HKKC5/10000	Per Cabinet complete £7 14 9
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£7/14/9 represents the retail value of the parts; the Cabinet is given free.



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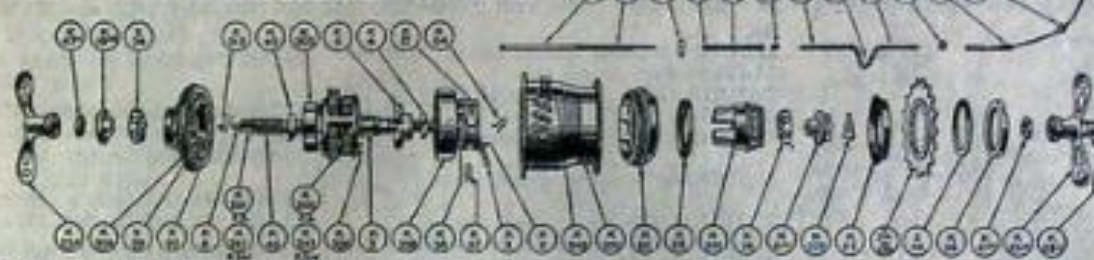
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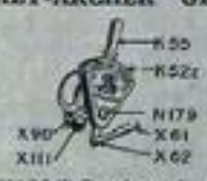
HUB REPAIR PARTS—continued



REPLACEMENT PARTS FOR "STURMEY-ARCHER" GLOBE AND MEDIUM RATIO THREE-SPEED GEARS, MARK AM, AR, AW, KS AND KSW PATTERNS

No.	Description	Quantity	Price	No.	Description	Quantity	Price
25/HK11/204	Gear Ring	each	3/6	25/HK352z/504	Hub Shell 40 Holes	each	8/-
25/HK36/3	Sprocket Lock Nut	each	1/4	25/HK356z/8	L.H. Cone	each	1/-
25/HK201a/208	Axle 6" with 15T. Pinion for KS	each	4/-	25/HK357/208	Rear Brake Arm	each	4/-
25/HK201a/208	Axle 6 1/4"	each	4/-	25/HK358z/400	Brake Shoes	pair	6/-
25/HK202/208	Hub Shell (40 holes)	each	4/-	25/HK359/103	Brake Linings	each	1/10
25/HK202a/208	Hub Shell (36 holes)	each	4/-	25/HK360/8	Spacing Washer	each	1/-
25/HK203/204	Planet Cage for L.H. Ball Cup for KS	each	3/6	25/HK361/209	Driver (NCCH)	each	4/3
25/HK203z/508	Planet Cage with Pinions and Pins for KS	each	8/6	25/HK362/4	Cam Lever (KT)	each	4/3
25/HK204/204	L.H. Ball Cup	each	3/6	25/HK363/2	Lining Rivets (Brass)	each	2/-
25/HK204z/210	L.H. Ball Cup fitted with 2 Pawls X28, 2 Pawl Springs K213, and 2 Pawl Pins X92	each	4/3	25/HK365/204	Packing Piece for 1 1/4" or 1 1/2" chain line	each	5/-
25/HK205/100	Double Planet Pinion, 30T. & 15T. for KS	each	1/6	25/HK366/104	Serrated Washer	each	2/-
25/HK206/104	Pinion Pin	doz.	2/-				
25/HK207/208	Driver, Screwed	each	4/-				
25/HK208/	Gear Ring, Obsolete, withdrawn, replace by K11 above	each	4/6				
25/HK208z/300	Gear Ring, complete with Pawls	each	4/6				
25/HK209/100	Sliding Clutch (same as K5)	each	1/6				
25/HK213/4	Pawl Spring for L.H. Ball Cup K204	doz.	6/-				
25/HK225/204	Driver Splined	each	3/6				
25/HK228/108	R.H. Ball Ring (to take Caged Ball Retainer K230, only used with 14 and 15T. Sprockets)	each	2/6				
25/HK229/104	R.H. Dust Cap (only used for 14 and 15T. Sprockets)	doz.	2/-				
25/HK230/208	Ball Retainer with 14 1/2 Balls, for K228	doz.	4/-				
25/HK231z/104	Wing Nuts complete	per pair	2/-				
25/HK234/104	Chain Guide for R.H. Wing Nut	doz.	2/-				
25/HK235/400	Spanner for Sprocket	each	6/-				
25/HK241/208	Axle 6" with 18T. Pinion for KSW	each	4/-				
25/HK241a/208	Axle 6 1/4"	each	4/-				
25/HK242/100	Planet Cage 27T. & 15T. for KSW	each	1/6				
25/HK242z/608	" " complete for KSW with Pinion and Pins	each	8/6				
25/HK351/208	Axle (KT) 6 1/2" long	each	4/-				
25/HK351a/208	Axle (KT) 6 1/4" long	each	4/-				

No.	Description	Quantity	Price	No.	Description	Quantity	Price
25/HK55z/600	Quadrant Lever	doz.	9/-	25/HK152z/210	Top Tube Control, complete, 1" x 54" long, Ladies (KCL)	each	4/3
25/HK227/8	Screwed Connection Lock Nut Knurled	each	1/-	25/HK152z/208	Top Tube Control, complete, 1 1/4" x 58" long, Tandem	each	4/3
25/HN120/8	Quadrant Lever Spring	each	1/-	25/HK152z/210	Top Tube Control, complete, 1" x 54" long, Ladies (KCL)	each	4/3
25/HN177/600	Quadrant Lever	doz.	9/-	25/HK152z/208	Top Tube Control, complete, 1 1/4" x 58" long, Tandem	each	4/3
25/HN179/8	" " Swivel	each	1/-	25/HK152z/210	Top Tube Control, complete, 1" x 54" long, Ladies (KCL)	each	4/3
25/HX4/208	Knurled Connection Standard	each	4/-				
25/HX4a/208	Disto Quick Release, Slotted	each	4/-				
25/HX35/4	Split Pin for N179	each	6/-				
25/HX61/208	Quadrant Connection Pin	each	6/-				
25/HX62/4	" " Pin	each	6/-				
25/HX78/200	Diagonal Pulley	each	3/-				
25/HX79/8	" " Arm	each	1/-				
25/HX80/8	Diagonal Pulley Arm Screw	each	1/-				
25/HX90/8	Pulley and Quadrant Clip Bolt	each	1/-				
25/HX105/4	Wire Nipple (Not Illustrated)	each	6/-				
25/HX109/200	Pulley Half Clip	each	3/-				
25/HX110/200	" " Clip	each	3/-				
25/HX111/104	" " Nut, Plated	each	2/-				
25/HX111a/104	Clip Screw Nut, Black	each	2/-				



The illustrations indicate the correct way of assembling the "KS" and "KB" Hubs, and particular attention is drawn to the direction in which the Ball Cage face.

Cable, complete with Knurled Connection for K, KB and KT Pattern.

Black for Gent's 36" long (X81z).

No. 25/HX154c/400 doz. 6/-

Black for Gent's Tandem, 58" long.

No. 25/HX154t/504 doz. 8/-

Suitable for Mark KS and KSW Pattern.

Top Tube Control, complete with Quick Release Knurled Connection.

1" for Gent's, 36" long.

No. 25/HK152a/208 each 4/-

1 1/4" for Gent's Tandem, 58" long.

No. 25/HK152k/210 each 4/3

Cable, complete with Quick Release Knurled Connection (Black).

For Gent's, 36" long.

No. 25/HX154a/400 doz. 6/-

For Tandem, 58" long

No. 25/HX154k/504 doz. 8/-

No. 25/HX120/8 Quadrant Lever Spring (Not Illustrated) doz. 1/-

Top Tube Quadrant only, complete.

No. 25/HK150a/108 1" (K52z) ea. 2/6

25/HK150b/108 1" (K52z) .. 2/6

25/HK150c/108 1 1/4" (K52z) .. 2/6

Top Tube Control, complete.

1" x 54" long, Ladies (KCL).

No. 25/HK152L/210 each 4/3

1" x 36" long, Gent's.

No. 25/HK152r/208 each 4/-

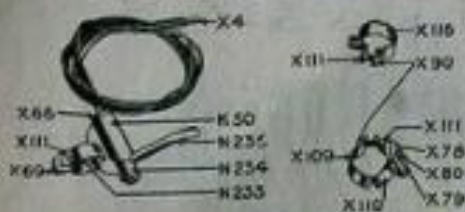
1 1/4" x 58" long, Tandem.

No. 25/HK152t/210 each 4/3

For Prices of all other Parts see same Interchangeable Part Nos. listed under Mark "K" Pattern.

HUB REPAIR PARTS—continued

HANDLEBAR CONTROL PARTS FOR "STURMEY-ARCHER" GEARS. Mark K, KS, KSW, KB and KT Pattern.

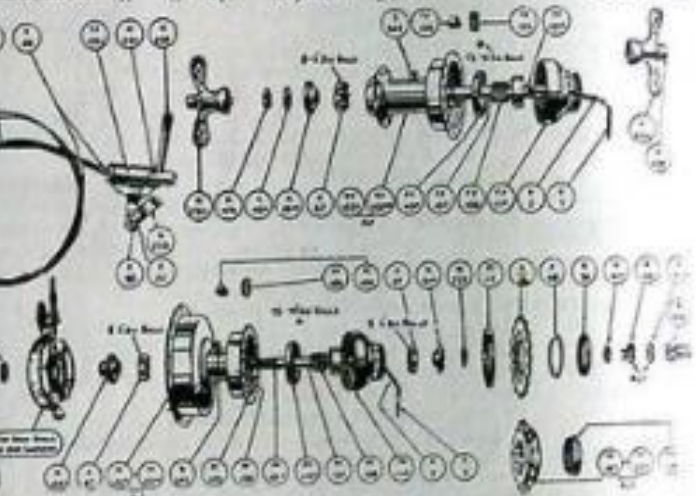
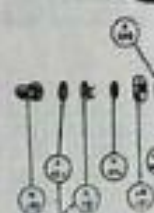
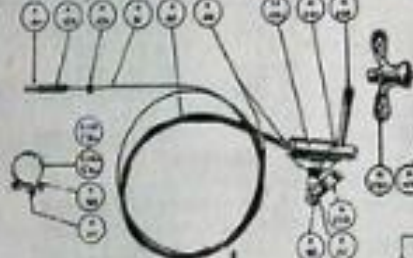


No.	Description	Price
25/HX69/8	Handlebar Clip or Pulley Clip Bolt	doz. 1/-
25/HX83/4	Ferrule for Outer Cable Ends (Not Illustrated)	.. -/6
25/HX116x/400	Fulcrum Clip, complete, 1" or 1 1/4"	.. 6/-
25/HN233/200	Half Clip	.. 3/-
25/HN234/600	Inner Sleeve	.. 9/-

No.	Description	Price
25/HN235/600	Handlebar Lever	doz. 9/-
25/HK50/600	Outer Cam	.. 9/-
25/HK65/104	Cam Cap (Old X66)	.. 2/-
25/HK66/8	Cable Stop	.. 1/-
25/HK160/8	Pulley, complete (X78z) 1 1/4"	.. each 1/-
25/HK170a/8	Outer Cable, Black (X82)	.. 1/-
25/HK170c/101	Inner and Outer Wires complete, Black, for Gent's	.. 1/8
25/HK170d/103	Inner and Outer Wires complete, Black for Lady's (X82z)	.. 1/10

No.	Description	Price
25/HK170b/400	Gent's 58" long	each 6/-
25/HK170h/406	Lady's 78" ..	6/9
25/HK170k/406	Tandem 78" ..	6/9

No.	Description	Price
25/HK170p/200	Less Wires and Pulley (K50z) each	3/-
Inner Cable, complete with Knurled Connection. Black.		
25/HK174g/504	Gent's 58" long (X 81z) ..	doz. 8/-
25/HK174h/608	Lady's 78" long ..	10/-
25/HK174k/608	Tandem 78" long ..	10/-
Inner Cable, complete with Quick Release No. Knurled Connection. Black.		
25/HK174a/10	Gent's 58" long	each 1/3
25/HK174b/100	Lady's 78" ..	1/6
25/HK174c/100	Tandem 78" ..	1/6
Handlebar Control, complete with Quick Release Knurled Connection.		
25/HK174p/408	..	each 7/-



REPLACEMENT PARTS FOR "STURMEY-ARCHER" TWO-SPEED GEARS, MARK T, TF, TB, TBC, TBF, TBFC & HT

No.	Description	Price
25/HCS108/4	Split Pin	doz. -/6
25/HGD331z/100	Inner and Outer Wires complete with Adjuster for Front Hub	.. each 1/6
25/HK44a/4	Spanner, T.F.B. for Cones and L.H. adjusting washer	.. -/6
25/HK47/104	Lock Nut for cone	doz. 2/-
25/HK105az/10	L.H. Cone with Dust Cap (T.F.B.)	.. each 1/3
25/HK128/3	Inner wire 32" long for Front Hub	.. -/4
25/HK128a/6	Inner Wire fitted with roller nipple for Lady's solo, 74" long	.. -/7
No. Top Tube Control, complete.		
25/HKC7/208	1"	.. each 4/-
25/HKC7b/208	1 1/4"	.. 4/-
25/HKC7c/208	1 1/2"	.. 4/-

No.	Description	Price
No. Handlebar Control, complete.		
25/HKC8/400	Gent's 58" long	.. each 6/-
25/HKC8c/406	Lady's 78" long	.. 6/9
25/HKC8d/406	Tandem 78" long	.. 6/9
25/HKB145/208	Brake Arm Clip for small oval tube, 3/8" x 3/8" diam.	doz. 4/-

No.	Description	Price
25/HIS93/108	Stop Screw Lock Nut	doz. 1/-
25/HIS433/8	Brake Rod Connection Nut	.. 1/-
25/HIS603/10	Brake Rod 14 1/2" with Top Connection	.. each 1/2
25/HIS533a/104	Stud, Nut (S443) and Washer (P1056)	doz. 2/-
25/HTF101az/200	Axle with Dog Sleeve (Tandem) 6 1/2" long	each 4/6
25/HTF101z/300	Ditto, 5 1/2" long	.. 4/6
25/HTF105/4	Planet Pinion	.. -/6
25/HTF106/2	Planet Pinion Bush	.. -/3
25/HTF107/208	Pinion Carrier	doz. 4/-
25/HTF108/4	Sun Pinion	.. each -/6
25/HTF110a/302	Driver	.. each 4/8
25/HTF111c/302	Inner Ball Race	.. each 4/8
Not supplied separately.		
25/HTF112/2	Outer Dust Cap	.. -/3
25/HTF113/104	Indicator Spring	doz. 2/-

No.	Description	Price
No. Top Tube Quadrant complete		
25/HTF121z/108	1"	.. each 2/6
25/HTF121zb/108	1 1/4"	.. 2/6
25/HTF121zc/108	1 1/2"	.. 2/6
25/HTF123/6	Outer Cam	.. -/9
25/HTF124/6	Locking for Free Wheel	.. -/8

No.	Description	Price
25/HTF126z/102	Indicating Spindle complete, comprising: Indicator screw, coupling spindle, chain, screwed connection, lock nut, and indicator spring for TF101az	.. each 4/-
25/HX78az/8	Pulley complete for 1"	.. 1/-
25/HX78z/8	..	.. 1/-
25/HX78bz/8	..	.. 1 1/4"
Top Tube Wire and Connection. Black.		
25/HX81c/400	For Gent's cycle: up to 36" long	.. doz. 8/-
25/HX81h/504	For Lady's cycle: up to 58" long	.. ..
25/HX81k/504	For Tandem cycle: up to 59" long	.. ..
25/HX81z/7	Inner Wire and Connection (Tandem and Lady's) up to 78" long	.. ..
25/HX110a/2	Pulley Clip, 1 1/4" diam.	.. ..
25/HX116az/4	Fulcrum Clip, 1" diam.	.. ..
25/HX116z/4	Fulcrum Clip, 1 1/4" diam.	.. ..
25/HX116bz/4	Fulcrum Clip, 1 1/2" diam.	.. ..
For Free Wheels for above, see page 128		

REPLACEMENT PARTS FOR "STURMEY-ARCHER" TWO-SPEED CLOSE RATIO GEARS, MARK TC (not illustrated)

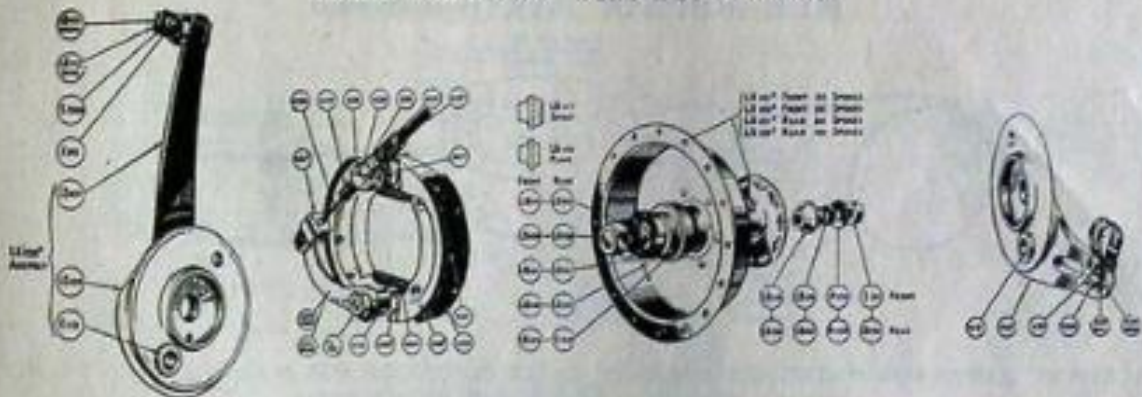
No.	Description	Price
25/HK55z/8	Quadrant Lever only	.. each -/9
25/HK226/8	Wire Grip	doz. 1/-
25/HK235/400	Spanner for Sprocket Lock Nut	.. 6/-
25/HK366/104	Serrated Washer	.. 2/-
25/HN189a/600	L.H. Stop	.. 9/-
25/HTF123/600	Outer Cam	.. 9/-

No.	Description	Price
25/HTF201/100	Sliding Clutch	.. each 1/6
25/HTF203/204	Planet Cage	.. 3/6
25/HTF203z/508	Planet Cage complete	.. 8/6
25/HTF205/100	Planet Pinion 25T x 14T	.. 1/6

No.	Description	Price
25/HTF207/204	Driver	.. each 8/6
25/HTF208/204	Gear Ring 54T	.. 3/-
Handlebar Inner Wire and Outer Cable No. complete, but less X4a Connection.		
25/HX82az/102	Gent's with 58" wire	ea. 1/6
25/HX82bz/106	Lady's with 78" wire	.. 2/-

For Prices of all other parts see same interchangeable Part Nos. listed under Mark "K" Pattern.

HUB REPAIR PARTS—continued



REPLACEMENT PARTS FOR "STURMEY-ARCHER" INTERNAL EXPANDING BRAKE HUBS FOR FRONT, MARK BF AND BFT

No.	Description	Price
25/HK111a/400	Brake Lever for K107	doz. 6/-
25/HK113/104	Brake Operating Bush for K107	2/-
25/HK119/208	Cable Adjuster Guide and Bolt combined	4/-
25/HK157a/108	Brake Arm	each 2/6
25/HK158/209	Brake Shoes complete with linings, per pair	4/3
25/HK162/4	Brake Operating Cam with K114 washer	each -/6
25/HK166/104	Brake Shoe Spring	doz. 2/-
25/HK167/200	Fulcrum Sleeve	3/-
25/HK164/4	Washer for K167	-/6
25/HK168/104	Wire Guide Nut	2/-
25/HK169/400	Cam Lever (cable control)	6/-
25/HK171/200	Brake Wire Guide	3/-
25/HK172/4	Locking Washer	-/6
25/HK173/104	Lining Rivets 1/4" Long x 3/16" dia.	gross 2/-
25/HLB101x/400	Hub Shell, 32 H., with Brake Drum	each 6/-
25/HLB102x/400	Hub Shell, 36 H., with Brake Drum	6/-
25/HLB106x/200	Aluminium Brake Plate, riveted to Brake Torque Arm	3/-
25/HLB109/304	Spindle 5" for 3 1/2" wide Hub	doz. 5/-
25/HLB110/304	Spindle 4 1/2" for 3 1/2" wide Hub	5/-
25/HLB111/208	Brake Arm Clip (Sports) for Round	4/-
25/HLB112/208	Brake Arm Clip (Standard) for Oval	4/-
25/HLB113a/400	Brake Lever	6/-
25/HLB114/104	Lock Nut for L.H. Cone, Flat 1/2"	2/-
25/HLB115/200	Brake Lock Nut with Spigot L.H.	3/-
25/HLB116/208	R.H. Cone (Flat) for 3 1/2" wide Hub	4/-
25/HLB117/208	R.H. Cone with Spigot for 3 1/2" wide Hub	4/-
25/HLB118/304	L.H. Cone	5/-
25/HLB119/104	Spacing Nut (Flat), to provide 3 1/2" wide Hub	2/-
25/HLB120/104	Spacing Nut with Spigot, to provide 3 1/2" wide Hub	2/-
25/HLB121/304	L.H. Cone Adjuster Washer	5/-
25/HLB122/400	Cone Spanner	6/-
25/HLB125/104	Dust Cap	2/-
25/HLB126/208	Brake Arm Clip for "D" Forks	4/-
25/HLB130/208	Brake Arm Clip for Duplex Forks	4/-
25/HLB140/208	Brake Arm Clip for Taper Gauge Forks	4/-
25/HLB141/104	Wing Nuts (Spigotted) 1/2"	pair 2/-
25/HLB142x/100	Wing Nuts 3/8" Plain	1/6
25/HLB149/400	Cam Lever Roller Type	doz. 6/-
25/HLB201/400	Spindle 5 1/2" x 1" for Tandem	6/-

No.	Description	Price
25/HLB202/304	L.H. Cone for 1"	doz. 5/-
25/HLB203/208	R.H. " " " " " "	4/-
25/HLB204/104	Spacing Nut for 1" Tandem	2/-
25/HLB205/208	Brake Arm Clip for Tandem	4/-
25/HLB214/400	Spindle 5 1/2" x 1"	6/-
25/HLB217x/208	Brake Plate and Torque Arm, BFT	each 4/-
25/HLB219/208	Brake Arm Clip for D Forks	doz. 4/-
25/HLB255/304	Distance Sleeve 1 1/2" long, BFT	5/-
25/HLB501x/608	Shell, 40 holes, BFT (Tandem)	each 10/-
25/HLB502x/608	Shell, 36 holes, BFT (Tandem)	10/-
25/HLB504/4	Spindle, 5 1/2" long, BFT, form 1937 (Tandem)	-/6
25/HP172/8	Axle Washer 1/2" Front	doz. 1/-
25/HS25/104	Axle Nut 1/2" Front	2/-
25/HS600/104	Front Fork Fulcrum Bolt	2/-

For Prices of all other parts see same interchangeable Part Nos. listed under Mark KB.

No.	Description	Price
25/HK44a/400	Spanner	doz. 6/-
25/HLB147x/200	Brake Plate and Torque Arm Cable Control	each 3/-
25/HLB138x/200	Brake Plate and Torque Arm for Rod Control	3/-
25/HLB151x/408	Hub Shell, 36 H., with Brake Drum	7/-
25/HLB152x/408	Hub Shell, 40 H., with Brake Drum	7/-
25/HLB155/8	Cone Lock Nut L.H. 1"	doz. 1/-
25/HLB156/400	Spindle, 5 1/2" long 1"	6/-
25/HLB156a/400	Spindle, 6 1/2" long 1"	6/-
25/HLB157/304	L.H. Cone	5/-
25/HLB158a/208	R.H. Cone	4/-
25/HLB161x/100	Wing Nuts for 1"	pair 1/6
25/HLB162/104	Axle Nut (CC18)	doz. 2/-
25/HLB164/400	Spindle 6 1/2" for Deraileur	6/-
25/HLB165/304	Distance Sleeve for Deraileur	6/-
25/HLB215x/504	R.H. Cone and Dust Cap, BRT	8/-
25/HLB216x/608	L.H. " " " "	10/-
25/HLB254a/408	Spindle 6 1/2" x 1"	7/-
25/HLB257/400	Cam Lever Roller Type	6/-
25/HS419/104	Dust Cap	2/-
25/HS598/104	Brake Link Swivel Bolt	2/-

For Prices of all other parts see same interchangeable Part Nos. listed under Mark K, KB, KS and BF, Front Hub Parts.

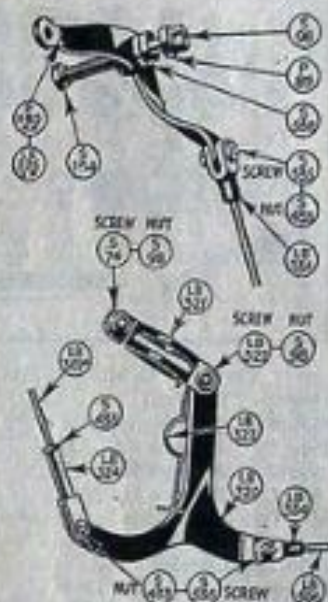
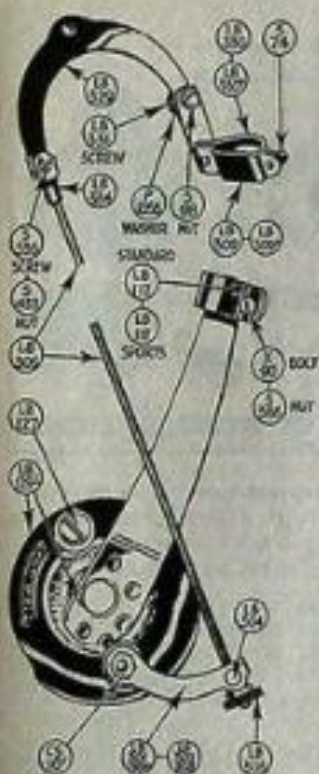
For Prices of Control Parts see pages 190 and 191.

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HUB REPAIR PARTS—continued



REPLACEMENT PARTS FOR "STURMEY-ARCHER" ROD CONTROLS FOR MARK KB, BF, BFT, BR AND BRT INTERNAL EXPANDING BRAKE HUBS

For Front Hub (Mark BF)		For Rear Hub (Mark BR).	
No.		No.	
25/HLB127/200	Fulcrum Screw for Rod doz. 3/-	25/HLB166/400	Cam Lever Roller Type for Rod or Cable doz. 6/-
25/HLB128/400	Cam Lever for Rod 6/-	25/HLB256/400	Cam Lever Roller Type for Rod or C.C.R. .. 6/-
25/HLB129x/200	Brake Plate for Rod Control.. .. each 3/-	25/HLB302/400	Cam Lever, Swivel Type 6/-
25/HLB150/400	Cam Lever, Roller Type doz. 6/-	25/HLB304/8	Swivel Pin for LB301/2 1/-
25/HLB301/400	Cam Lever, Swivel Type 6/-	25/HLB306/504	Bottom Rod with Swivel Connection, 20" (S599) 8/-
25/HLB303/104	Rod Adjustable Nut 2/-	25/HLB307a/904	Long Brake Rod, 20½", and two Connections 14/-
25/HLB305/504	Brake Rod, 16½", and Connection 8/-	25/HLB320/208	Bottom Bracket Brake Link (P1224) 4/-
25/HLB309/200	Front Fork Inner Clip (For "D" or Duplex) (P1221h) 3/-	25/HLB321/104	Seat Tube Clip (P1223) 2/-
25/HLB309a/200	Front Fork Inner Clip (For Oval) (P1221) 3/-	25/HLB322/104	Brake Link Swivel Bolt 2/-
25/HLB324/400	Long Connection Joint (S602) 6/-	25/HLB323/8	Brake Link Spring 1/-
25/HLB329/800	Front Brake Stirrup (P1222) 9/-	25/HLB325/200	L.H. Side Action Bell Crank (P1251) 3/-
25/HLB330/104	Front Fork Outer Clip (For "D" or Oval) (P840) 2/-	25/HLB326a/208	Bell Crank Fulcrum (P1249) 4/-
25/HLB330a/104	Front Fork Outer Clip for (Humber) Duplex (P840h) 2/-	25/HLB326c/1000	Bell Crank, Complete Clip on 15/-
25/HLB331/104	Front Fork Fulcrum Bolt 2/-	25/HLB327a/400	Bell Crank Clip (P1250) 6/-
25/HLB334/208	Front Brake Rod Connection (S557) 4/-	25/HLB328/8	Rivet for Bell Crank Fulcrum 1/-
25/HS35/8	Front Fork Clip Bolt (S74) 1/-	25/HLB332/104	Fulcrum Bolt (S583) 2/-
25/HS98/8	Front Fork Fulcrum Bolt Nut or Bell Crank Nut 1/-	25/HLB334/208	Rear Rod Connection 4/-
25/HS433/8	Front Brake Rod Screw Nut 1/-	25/HLB335/400	Cam Lever, Rod Type, for Steel Shoes .. 6/-
25/HS525/8	Front Brake Rod Screw 1/-	25/HLB343x/608	Brake Tube 3" Long 10/-
		25/HP89/8	Bell Crank Washer 1/-
		25/HP1103/200	R.H. Side Action Bell Crank 3/-
		25/HS74/8	Seat Tube Clip Bolt 1/-
		25/HS98/8	Seat Tube Clip Bolt Nut 1/-
		25/HS154/200	Bell Crank Fulcrum Bolt 3/-
		25/HS433/8	Rear Rod Nut 1/-
		25/HS443/8	Fulcrum Bolt Nut 1/-
		25/HS533/104	Stud, Nut (S443) and Washer (P1056) .. 2/-
		25/HS535/8	Rear Rod Screw 1/-
		25/HS558/8	Bell Crank Bush 1/-
		25/HS603/1008	Brake Rod 14½" with Connection LB334 and Long Connection LB324 14/-
		25/HS604/504	Short Brake Rod, 16", and Connection S557 8/-

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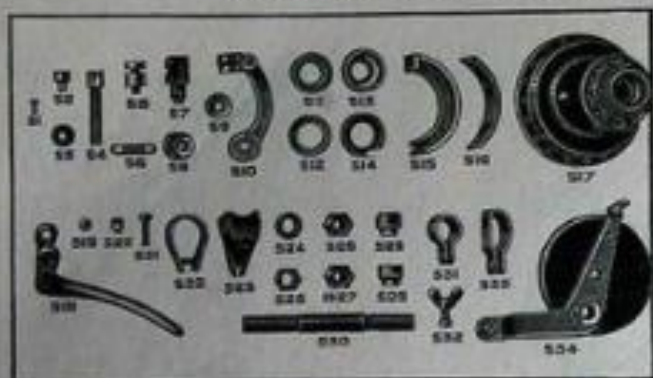
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HUB REPAIR PARTS—continued

REPLACEMENT PARTS FOR BRITISH HUB CO.'S CYCLBRAKE HUBS



No. For Solo Cyclbrake Hubs

25/H4050a/2	Rivet (S1)	doz. -/4
25/H4050b/9	Cable Stop Cup (S2) .. .. .	.. 1/3
25/H4050c/7 1/2	Adjuster Nut (S3)	each -/3
25/H4050d/3	Adjuster Screw (S4) .. .. .	.. -/6
25/H4050e/7 1/2	Fulcrum Pin (S5) .. .. .	.. -/3
25/H4050f/3	Brake Shoe Spring (S6)	pair -/6
25/H4050g/7	Brake Cam (S7)	each 1/-
25/H4050h/7 1/2	Cam Bush (S8) .. .. .	.. -/3
25/H4050k/6	Cam Washer (S9)	doz. -/9
25/H4050l/9	Cam Lever and Yoke (S10)	each 1/2
25/H4050m/9	Felt Washer (S11)	doz. 1/3
25/H4050n/6	Steel Washer for Felt (S12) .. .. .	.. -/9
25/H4050p/2	Hub Cup (S13)	each -/4
25/H4050r/1	Hub End Cap (S14) .. .. .	.. -/2
25/H4050w/403	Hub Shell (S17)	6/-
25/H4051a/9	Cable Ball Nipple (S19)	doz. 1/3
25/H4051b/8	Brake Lever Saddle Pin (S20) .. .. .	.. 1/2
25/H4051c/9	Spring Band Locking Screw (S21) .. .. .	.. 1/3
25/H4051d/3	Spring Band (S22)	each -/6
25/H4051e/10	Brake Lever Saddle (S23) .. .. .	.. 1/4
25/H4051f/10 1/2	Spindle Collar (S24)	doz. 1/10
25/H4051g/10	Cone Lock Nut (S25) .. .. .	.. 1/4
25/H4051h/10	Side Plate Lock Nut (S26) .. .. .	.. 1/4
25/H4051k/10	Hub Spindle Nut (S27) .. .. .	.. 1/4
25/H4051l/3	Adjusting Cone (S28)	each -/6
25/H4051m/3	Fixed Cone (S29) .. .. .	.. -/6
25/H4051n/6	Hub Spindle (S30) .. .. .	.. -/9
25/H4051p/7 1/2	Anchor Clip (Round) (S31) .. .. .	.. -/3
25/H4051r/7 1/2	Anchorage Pin and Nut (S32) .. .. .	.. -/3
25/H4051s/7 1/2	Anchor Clip (D or Oval) (S33) .. .. .	.. -/3
25/H4051t/208	Brake Side Plate (S34) .. .. .	.. 4/-
25/H4053a/102	Handlebar Levers (Standard) Nickel Plated (S18) .. .. .	.. 1/11
25/H4053b/102	Handlebar Levers (Standard) Black (S18) .. .. .	.. 1/10
25/H4053c/103	Handlebar Levers (Standard) Chromium Plated (S18) .. .. .	.. 1/11
25/H4053d/207	Handlebar Levers complete (Standard), Nickel Plated (S18) .. .. .	.. 3/6
25/H4053e/204	Handlebar Levers complete (Standard), Black (S18) .. .. .	.. 3/3
25/H4053f/207	Handlebar Levers complete (Standard), Chromium Plated (S18) .. .. .	.. 3/6
25/H4053l/211	Handlebar Lever, complete No. 2, Nickel Plated (S18) .. .. .	.. 4/-
25/H4053n/208	Handlebar Lever, complete No. 2, Black (S18) .. .. .	.. 3/9
25/H4053m/211	Handlebar Lever, complete No. 2, Chromium Plated (S18) .. .. .	.. 4/-

Combined Waterproof-covered Outer Cable, with Lever End Cup Nipple, Adjusting Screw and Nut, Inner Wire with Nipples soldered on each end, for Expanding Hub Brakes, ready for fitting.

No. 25/H4054a/103	For Front	each 1/10
25/H4054b/105	For Rear, Gent's .. .. .	.. 2/-
25/H4054c/108	For Rear, Lady's .. .. .	.. 2/6
25/H4054n/303	For Rear, Tandem, Cable-cum-Rod .. .. .	.. 4/6

For Tandem Cyclbrake Hubs.

No. 25/H4060a/3	Cotter Pin (C20)	doz. -/5
25/H4060b/2	Rivet (C21) .. .. .	.. -/4
25/H4060c/6	Cable Nipple (C22) .. .. .	.. -/4
25/H4060d/1 1/2	Yoke Pin (C23)	each -/3
25/H4060e/7 1/2	Knurled Adjusting Nut (C24) .. .. .	.. -/3
25/H4060f/2	Yoke (Cable Control) (C25) .. .. .	.. -/3
25/H4060g/2	Anchorage Pin and Nut (C26) .. .. .	.. -/3
25/H4060h/4	Block for Adjusting Screw (C27) .. .. .	.. -/3
25/H4060k/3	Adjuster Screw (C28) .. .. .	.. -/3
25/H4060n/6	Hub End Washer (C31)	doz. -/6
25/H4060p/2	Hub Cup (C32)	each -/4
25/H4060r/403	Hub Shell (C33)	6/-
25/H4060s/6	Anchor Arm (C34) .. .. .	.. -/3
25/H4060t/7 1/2	Anchorage Clip (Round) (C35) .. .. .	.. -/3
25/H4060w/1 1/2	" " (D) (C36) .. .. .	.. -/3
25/H4061a/1 1/2	Yoke (Rod Control) (C37) .. .. .	.. -/3
25/H4061b/2	Fulcrum Pin (C38) .. .. .	.. -/3
25/H4061c/3	Fulcrum Pin Washer (C39)	doz. -/9
25/H4061d/3	Brake Shoe Spring (C40)	pair -/6
25/H4061e/7	Brake Cam (C41)	each 1/-
25/H4061f/3	Brake Lever (C42) .. .. .	.. -/3
25/H4061g/108	Brake Side Plate (C43) .. .. .	.. 2/-
25/H4061h/7	Rod Control Nut (C44)	doz. 1/3
25/H4061k/10	Cone Lock Nut (C45) .. .. .	.. 1/4
25/H4061l/10	Spindle Nut (C46) .. .. .	.. 1/4
25/H4061m/103	Spindle Collar (C47) .. .. .	.. 2/-
25/H4061n/3	Adjust Cone (Chromo Steel) (C48)	each -/6
25/H4061p/3	Fixed Cone (Chromo Steel) (C49) .. .. .	.. -/6
25/H4061r/6	Hub Spindle (C50) .. .. .	.. -/9
25/H4061t/106	Band Clip for 1 1/2" Tube, screwed to take Spring Box for Cable-cum-Rod Brakes (A) .. .. .	.. 2/-
25/H4061w/106	ditto for 1 1/2" Tube .. .. .	.. 2/-
26/H4061x/6	Brace-on Lug, screwed as above (B) -/3

For Brake Shoes and Liners see page 196.

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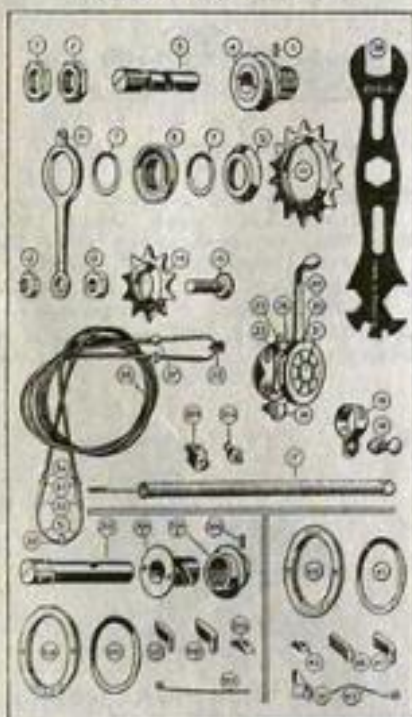
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HUB REPAIR PARTS—continued

"CYCLO" DERAILLEUR

TWO-SPEED REPLACEMENT PARTS

No.			
25/HD1/2	Fixed Shaft Nut	each	-/3
25/HD2/2	Lock Nut	..	-/3
25/HD3/110	Fixed Shaft	..	2/5
25/HD4/208	Sliding Shell	..	3/6
25/HD5/1	Peg for ditto	..	-/2
25/HD6/11	Tension Arm	..	1/3
25/HD7/1	Washers	.. pair	-/2
25/HD8/9	Inside Race	.. each	1/-
25/HD9/9	Outside Race	..	1/-
25/HD10/201	Jockey Sprocket	..	2/9
25/HD12/2	Tension Sprocket Nut	..	-/3
25/HD13/4	Cone for ditto	..	-/6
25/HD14/11	Tension Cog, 10T.	..	1/3
25/HD14a/110	Tension Cog, complete, 10 T.	..	2/6
25/HD15/6	Tension Cog Spindle	..	-/8
25/HD17/9	Tension spring complete	..	1/-
25/HD18/9	Steel Strap	.. per doz.	1/-
25/HD19/9	Steel Bolt and Nut for ditto	..	1/-
25/HD20a/208	Control Lever (parts 20-26) complete for 2- or 3-Speed	.. each	3/6
25/HD20b/208	Ditto Braze-on	..	3/6
25/HD21/3	Centre Rivet	..	-/4
25/HD23a/4	Collar and Pin (parts 23 and 24)	..	-/6
25/HD26/106	Braze-on Eye for Tension Spring	.. per doz.	2/-
25/HD30a/2	Patent Solderless Nipple	.. each	-/3
Cables or Transmissions, Waterproof.			
25/HD30f/110	For Cycles (30-37)	.. each	2/9
25/HD30k/206	For Tandem (30-37)	..	3/9
25/HD30l/304	Lady Back Tandem (30-37)	..	5/-
Inner Wires with No. 30 Nipple.			
25/HD31a/8	For Cycles	.. each	-/10
25/HD31d/8	For Tandems	..	-/10
25/HD31e/9	Lady Back Tandem	..	1/-
25/HD32/2	Nipple Connecting Joint	..	-/3
25/HD32a/4	Patent Solderless Joint	..	-/5
FREE WHEEL SPARES			
25/HD40/110	Free Wheel Body	.. each	2/5
25/HD41/208	F.W. Outside, 15, 17 or 18 T. x 1"	..	3/7
25/HD42/4	Pawl Springs	.. per doz.	-/6
25/HD43/106	Pawls, Half Moon Pattern	..	2/-
25/HD45/4	Packing Washers	..	-/6
25/HD46/8	Locking Plate	.. each	-/11
25/HD47/106	Pawls, Ratchet patt.	.. doz.	2/-
25/HD48/106	"	..	2/-
25/HD49c/106	"	..	2/-
25/HD52c/106	"	..	2/-
25/HD50/4	Pawl Springs	..	-/6



For Free Wheels see Page 124.
For Sprockets see Page 173.

"CYCLO" RECONDITIONED CABLES OR TRANSMISSIONS

No.			
25/HD30p/104	For Cycle	.. each	2/-
25/HD30r/104	For Tandem	..	2/-

We have now made arrangements with the Cyclo Gear Co. whereby we can exchange from stock broken or worn cables for reconditioned Cable Units at the above prices.

When ordering please state which pattern and size is required.

We advise the use of the Braze-on Attachment wherever practicable. This should not disfigure the machine, even when done to an existing frame. This makes for rigidity unobtainable with any bolt-on attachment.



THREE-SPEED REPLACEMENT PARTS

These are identical with Two-Speed Parts, with the following exceptions—

No.			
25/HD303d/110	Fixed Shaft	.. each	2/5
25/HD303a/108	Peg for ditto	.. per doz.	2/-
25/HD304a/110	Sliding Shell	.. each	2/6
25/HD304b/106	Sliding Ring	..	2/-
25/HD305/11	Peg for ditto	..	-/2
25/HD350/110	F.W. Centre	..	2/5
25/HD351/309	F.W. Outside, 18, 19, 20, 21, 22, 23, 24, 25, 26, or 28 T. x 1"	..	each 4/-
25/HD352/4	Pawl Springs	.. per doz.	-/6
25/HD355/4	Packing Washers	..	-/6
25/HD356/8	Locking Plate	.. each	-/11

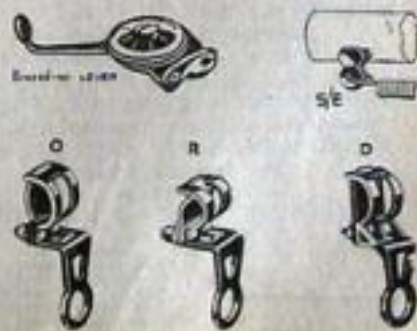
CHAIN STAY CLIPS FOR "CYCLO"

25/HD80/111	Round, 1/4"	.. each	2/6
25/HD81/111	" 1/2"	..	2/6
25/HD86/111	Oval, 1/4"	..	2/6
25/HD87/111	" 1/2"	..	2/6
25/HD89/111	" 1 1/4"	..	2/6
25/HD92/111	" D " Roadster, 1 1/4"	..	2/6
25/HD93/111	Universal Type	..	2/6
25/HD95/9	Braze-on, for 2- or 3-Speed, V3	..	1/-
25/HD96/111	Braze-on for Four-Speed, V4	..	2/6
25/HD97/111	Braze-on Type, Adjustable, L.B. and T.E.	..	2/6
25/HD100/4	Cycle Spanner (38)	..	-/6

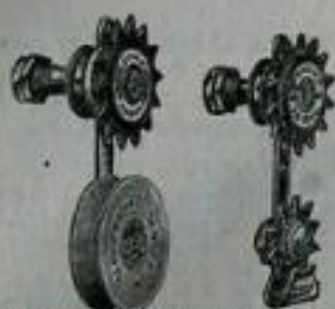
"CYCLO" FOUR-SPEED SPARES

These are identical with Three-Speed Parts, with the following exceptions—

25/HD403/103	Fixed Shaft	.. each	1/8
25/HD404/406	Sliding Shell and Ring	..	6/-
25/HD405/200	Peg for ditto	.. doz.	2/6
25/HD420/208	Control Lever complete, including parts Nos. 420 to 427	..	each 3/6
25/HD438/210	Transmission complete, with inner wire	..	3/9
25/HD449/108	Fourth Gear Sprocket 25, 26, 28 teeth. Left Hand	..	2/3
25/HD451b/309	Free Wheel with Third Gear Sprocket only, 20, 21 or 22 teeth	..	5/-



HUB REPAIR PARTS—continued

**"CYCLO" TWO-SPEED SYSTEM**

- Sprocket Type.
 No. 25/HD200a/706 Steel .. each 10/-
 25/HD200d/1001 Duralium .. 13/6
 Pulley Type.
 No. 25/HD200g/900 Steel .. each 12/-
 25/HD200L/1107 Duralium .. 15/6

"CYCLO" THREE-SPEED SYSTEMS

- Sprocket Type.
 No. 25/HD201a/900 Steel .. each 12/-
 25/HD201d/1107 Duralium .. 15/6
 Pulley Type.
 No. 25/HD201g/1006 Steel .. each 14/-
 25/HD201L/1301 Duralium .. 17/6

CYCLO "ROSA" CHAIN GUARD

For fitting to system to prevent chain coming off during change over of gearing. As fitted on illustration above.

- No. 25/HD155/3 each -/4

**"ROSA" CONTROL LEVER SAFETY CLIP**

Specially made for use with "Cyclo" Derailleur Chain Speed Gear. Black Enamelled. Adjustable to fit 1" or 1 1/4" Top Tube. Packed on cards of 1/ dozen.

- No. 25/HD150/4 each -/6
 25/HD150/203 per card -

A useful little gadget to prevent the lever being interfered with while the machine is left unattended.

**"FIBRAX" HUB BRAKE LININGS**

Complete in Sets of Two with Rivets for Internal Expanding Brake Hubs. Front or Rear. Boxed.

FLEXIBLE LININGS

- No. For Blumfield Solo No. FCL/11.
 25/H6500b/10 Size 3 1/2" x 1" x 1/8" per set 1/4
 For Cyklbrake Solo No. FCL/112.
 25/H6500c/8 Size 3" x 3/4" x 1/8" per set 1/-
 For Cyklbrake Tandem No. FCL/113.
 25/H6500d/10 Size 4 1/2" x 1" x 1/8" per set 1/4
 For Perry Tandem or B.W. Solo No. FCL/110.
 25/H6500p/10 Size 3 1/2" x 1" x 1/8" per set 1/4
 For Perry Solo or Hercules No. FCL/118.
 25/H6500r/8 Size 2 1/2" x 1" x 1/8" per set 1/-
 For Sturmev-Archer, Raleigh, New Hudson, or Cycle Solos No. FCL/115.
 25/H6500t/9 Size 3 1/2" x 1" x 1/8" per set 1/2

DIEPRESSED LININGS

- No. For Blumfield or Trivelox Solo No. PCL/11.
 25/H6510b/100 Size 3 1/2" x 1" x 1/8" per set 1/8
 For Cyklbrake Solo No. PCL/12.
 25/H6510c/11 Size 3" x 3/4" x 1/8" per set 1/6
 For Cyklbrake Tandem No. PCL/13.
 25/H6510d/102 Size 4 1/2" x 1" x 1/8" per set 1/10
 For Cyklbrake Super Tandem No. PCL/27.
 25/H6510e/103 Size 4 1/2" x 1" x 1/8" per set 2/-
 For Perry Tandem or B.W. Solo No. PCL/10.
 25/H6510p/102 Size 3 1/2" x 1" x 1/8" per set 1/10
 For Perry Solo or Hercules No. PCL/18.
 25/H6510r/100 Size 2 1/2" x 1" x 1/8" per set 1/8
 For Sturmev-Archer, Raleigh, New Hudson or Cycle Solos No. PCL/15.
 25/H6510t/102 Size 3 1/2" x 1" x 1/8" per set 1/10
 For Sturmev-Archer Tandem No. PCL/26.
 25/H6510x/103 Size 4" x 1" x 1/8" per set 2/-
 For Trivelox or Blumfield Tandem No. PCL/25
 25/H6510z/106 Size 4 1/2" x 1" x 1/8" per set 2/6

"CYCLO" TWIST GRIPS

Specially suitable for use with "Cyclo" Derailleur Gears. Comprising: Twist Grip, Dummy to match and Transmission.

- No. 25/HD160a/499 For Cycle .. each 6/3
 For Tandem, Two Gent's.
 No. 25/HD160L/501 each 6/9
 For Tandem, Lady Back.
 No. 25/HD160m/508 each 7/6

**TWIST GRIP FITTING INSTRUCTIONS**

Drill a 3/16" hole on the centre line of the outside of the handlebar, slide over the twist grip sleeve, and insert pin, screwing nut from the inside of the tube. The head of the pin acting as a stop at each extreme end of the slot. To slip the rubber grip easily over the extra thickness smear the sleeve with grease. The transmission is fitted according to the usual Cyclo fitting instructions.

NOTE.—When ordering please state size of frame, solo or tandem.

**"FERODO" HUB BRAKE LININGS**

Complete in Sets of Two with Rivets for Internal Expanding Brake Hubs.

Front and Rear. Boxed.

For Cyklbrake Super Solo, M35.

- No. per set
 25/H6520b/102 Size 3 1/2" x 1" x 1/8" 1/11
 For Cyklbrake Solo or Solite, M25.
 25/H6520c/100 Size 3" x 3/4" x 1/8" 1/8
 For Cyklbrake Tandem or Tricycle, M26.
 25/H6520d/104 Size 4 1/2" x 1" x 1/8" 2/1
 For Cyklbrake Super Tandem, N21.
 25/H6520e/105 Size 4 1/2" x 1" x 1" 2/4
 For B.S.A. Solo, M21.
 25/H6520g/102 Size 3" x 1" x 1/8" 1/11
 For Enfield Solo, N23.
 25/H6520L/102 Size 4 1/2" x 1 1/4" x 1" 1/11
 For Perry Solo Mark 1 and 2, M30.
 25/H6520r/102 Size 2 1/2" x 1" x 1/8" 1/11
 For Perry Tandem, M23.
 25/H6520t/104 Size 3 1/2" x 1" x 1/8" 2/1
 For Sturmev-Archer Solo, M33.
 25/H6520w/102 Size 3 1/2" x 1" x 1/8" 1/11
 For Sturmev-Archer Tandem, M36.
 25/H6520x/104 Size 3 1/2" x 1" x 1/8" 2/1
 For Trivelox, N34.
 Solo or Tandem.
 25/H6520z/109 Size 4 1/2" x 1" x 1/8" 2/10

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**"CYCLO" TENSION PULLEY**

- No. 25/HD200p/304 each 4/6

**"FERODO" HUB BRAKE SHOES**

Fitted with Ferodo Brake Linings and complete with Springs.

For Super Solo 3 1/2" dia. (BH1)

- No. 25/H6530b/304 pair 5/-

For Solo or Solite, 3" dia. (BH10)

- No. 25/H6530c/211 pair 4/6

For Cyklbrake Tandem, 3 1/2" dia., all

years, Tandem Rear Hubs, 1932 and

prior, and Transport Tricycle Rear

Hubs all years (BH102)

- No. 25/H6530d/304 pair 5/-

For Cyklbrake Super, Tandem Rear

Hubs, 4" dia., 1933 and onwards

(BH103)

- No. 25/H6530e/308 pair 5/6

HUB REPAIR PARTS—continued



"WITMY" TWO-SPEED
GEAR CLOSE-RATIO
REPLACEMENT PARTS

No. 25/HW1/102	Screwed Outer Sleeve	each	1/6
25/HW2/5	Sleeve Locking Nuts .. ..	..	-/6
25/HW3/106	Sliding Inner Sleeve .. ..	..	2/-
25/HW4/106	Square Nut	doz.	2/-
25/HW5/5	Screwed Bush	each	-/6
25/HW6/7	Tension Spring .. ..	..	-/10
25/HW7/11	Jockey Cog Connecting Plate ..	..	1/3
25/HW8/205	Back Jockey Sprocket and Bearing ..	..	3/3
25/HW9/106	Split Brass Nipple Sleeve ..	doz.	2/-
25/HW10/201	Front Jockey Sprocket and Bearing with Nut	each	2/9
25/HW11/2	Serrated Spindle Nuts .. ..	..	-/3
25/HW12/102	Spindle and Gear Bracket Plate ..	..	1/6
25/HW13/102	Lever Outer Cam and Half Clip (old pattern) .. ..	..	1/6
25/HW14/9	Control Lever (old pattern) .. ..	..	1/-
25/HW15/3	Control Lever Nipple .. ..	..	-/4
25/HW16/106	Control Lever Half Clip (old pattern) ..	doz.	2/-
25/HW17/9	Control Lever Bolt and Nut (old pattern) .. ..	..	1/-
25/HW18/106	Waterproof Cable complete, for Cycle	each	2/3
25/HW18a/205	Ditto, for Tandem .. ..	..	3/3
25/HW19/9	Cable Clips for Back Stay	doz.	1/-
25/HW20/5	Spanner	each	-/6
25/HW21/106	Wing Nut for Stay Clip Bolt	doz.	2/-
25/HW22/106	Stay Clip .. ..	..	2/-
25/HW23/9	Bolt for Stay Clip .. ..	..	1/-
25/HW24/9	Screw .. ..	..	1/-
25/HW27/9	Split Pin .. ..	..	1/-
25/HW28/106	Shouldered Pin .. ..	..	2/-
25/HW29/11	Quadrant Plate and Clip	each	1/3
25/HW29a/108	Top Tube Quadrant complete .. ..	..	2/3
25/HW30/9	Shackle and Lever Rivet	doz.	1/-
25/HW31/106	Shackle for Lever .. ..	..	2/-
25/HW32/106	Quadrant Lever Spring .. ..	..	2/-
25/HW33/6	Quadrant Lever only	each	-/8

Tubular Control Lever and Clip now Obsolete. Replaced by above Quadrant Type.

"Trivelox" popular spare parts stocked, others to special order in a few days.

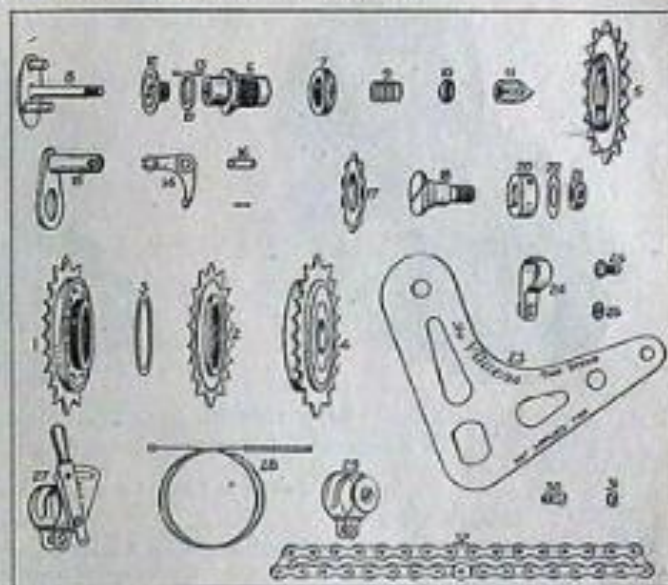
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"VILLIERS" TWO-SPEED GEAR
REPLACEMENT PARTS.

No. 25/HV1/208	Free Wheel on Hub	each	3/6
25/HV2/102	Fixed Sprocket on Hub .. ..	..	..	..	1/6
25/HV3/9	Distance Ring .. ..	..	..	doz.	1/-
25/HV4/300	Countershaft Free Wheel .. ..	..	..	each	4/-
25/HV5/106	Countershaft Fixed Sprocket .. ..	..	..	2/-	
25/HV6/102	Countershaft Axle .. ..	..	..	..	1/6
25/HV7/207	Countershaft Axle Nut .. ..	..	..	doz.	3/-
25/HV8/208	Operating Plunger .. ..	..	..	each	2/-
25/HV9/9	Operating Plunger Spring .. ..	..	..	doz.	1/-
25/HV10/9	Operating Plunger Spring and Thrust Washer .. ..	..	..	..	1/-
25/HV11/3	Operating Plunger Domed Nut .. ..	..	..	each	-/4
25/HV12/3	Retaining Flange for Rollers .. ..	..	..	..	-/4
25/HV13/3	Rollers .. ..	..	..	doz.	-/4
25/HV14/6	Bell Crank Lever .. ..	..	..	each	-/8
25/HV15/9	Bell Crank Pillar and Plate .. ..	..	..	..	1/-
25/HV16/9	Hinge Pin .. ..	..	..	doz.	1/-
25/HV17/9	Jockey Sprocket .. ..	..	..	each	1/-
25/HV18/9	Jockey Sprocket Pin .. ..	..	..	..	1/-
25/HV19/9	Spacing Washer .. ..	..	..	doz.	1/-
25/HV20/3	Wide distance piece .. ..	..	..	each	-/4
25/HV21/9	Nut for Jockey Sprocket Pin .. ..	..	..	doz.	1/-
25/HV22/9	Adjustment Washer .. ..	..	..	..	1/-
25/HV23/106	Main Plate .. ..	..	..	each	2/-
25/HV24/3	Chain Stay Clip with Bolt and Nut ..	..	..	..	-/4
25/HV25/9	Chain Stay Clip Bolt .. ..	..	..	doz.	1/-
25/HV26/9	Chain Stay Clip Nut .. ..	..	..	..	1/-
25/HV27/102	Top Tube Control Quadrant complete with Bolt and Nut .. ..	..	..	each	1/6
25/HV28/9	Cable complete .. ..	..	..	..	1/-
25/HV29/9	Cable Pulley and Clip complete with Bolt .. ..	..	..	each	1/-
25/HV30/9	Bolts for Clips .. ..	..	..	doz.	1/-
25/HV31/9	Nuts for Clip Bolts .. ..	..	..	..	1/-
25/HV32/9	Top Gear Chain .. ..	..	..	each	1/-

LAMPS (DYNAMO ELECTRIC)

**"BEMO" NEW MODEL CYCLE DYNAMO ELECTRIC LIGHTING SETS.** (British Made.)

Black Enamelled and Chromium Plated finish, Dynamo body all Chromium Plated, Bracket and Neck Black Enamelled.

With Rear Lamp incorporated in 6-volt, 0.3 amp. Dynamo complete.

Model No. 450.

With Torpede-shaped Head Lamp, Black with Chromium Plated Rim and Switch for Main and Pilot Bulbs, complete with Pocket-type Battery and Cables.

No. 25/L44d/806 per set 15/9

**Model No. 456.**

With Round-shaped Black Head Lamp with Chromium Plated Rim, Main Bulb, Pocket-type Battery and Cables.

No. 25/L45d/806 per set 12/9

**Model No. 460.**

Shallow Torpede non-Battery type Head Lamp with Chromium Plated Rim, Main Bulb and Cables.

No. 25/L47g/708 per set 11/6

**"ARCLYTE" CYCLE DYNAMO ELECTRIC LIGHTING SETS**

British made.

Complete with 6 volt Dynamo, Head Lamp Black Enamelled with Chromium Plated Rim and Main Bulb, Rear Lamp, Cables, Bulbs, and stand-by pocket Battery. Each set packed in a carton.

Bracket Clip to suit "D" Front Fork or Back Stay.

No. 25/L40a/806 per set 12/9

Bracket Clips to suit Round Stays.

No. 25/L40b/806 per set 12/9

For Dynamos only, see pages 231 to 233.

**"BELMAG" CYCLE DYNAMO ELECTRIC LIGHTING SETS**

Swiss made.

Lightweight set with miniature Dynamo and Head Lamp combined, for Front Fork fittings. Complete with Bulb (less Rear Lamp).

Chromium Plated finish with Black Enamelled parts.

No. 25/L42/1203 per set 17/9

**"CHALLENGE" SPORTS CYCLE DYNAMO ELECTRIC LIGHTING SET**

(British with Foreign Head Lamp.)

Front and Rear Lamp Sets, Dipping Type. Complete with Bulbs and 6 volt, 0.3 amp. Dynamo.

Torpedo Shallow Head Lamp, Ebony and Chromium Plated (non-Battery type). Bracket fitting.

No. 25/L44g/903 per set 12/9

"BLUEMEL'S" FEATHERWEIGHT BAKELITE HEAD LAMP ONLY

(Without Bulb.)

No. 25/L53t/304 Black each 5/-

25/L53w/304 White 5/-

Supplied less Bulb for use with Bluemel's or any other Dynamo.

Rear Lamp only, less Bulb.

No. 25/L52m/102 each 1/9

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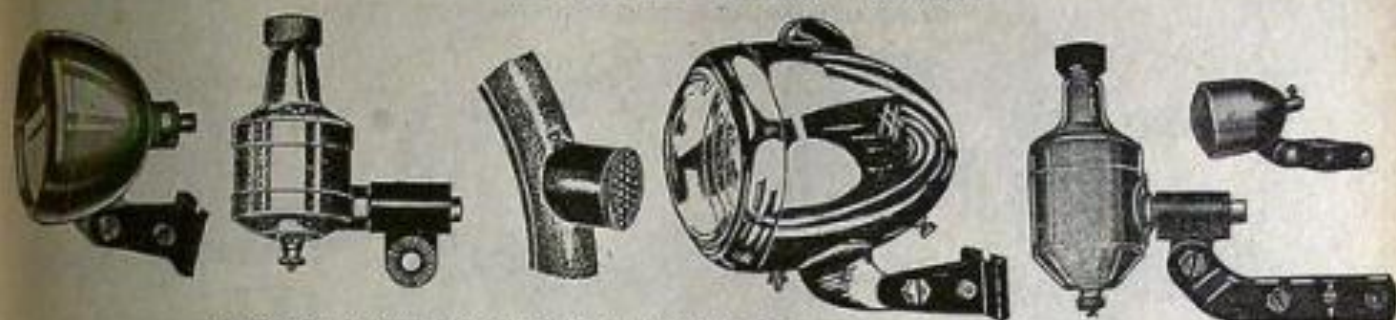
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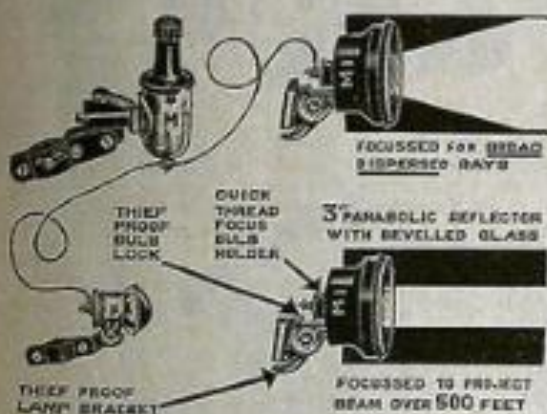
LAMPS (DYNAMO ELECTRIC)—continued



"LUCIFER" NEW MODEL CYCLE DYNAMO ELECTRIC LIGHTING SETS. (Swiss.)
Complete with Chromium Plated Dynamo, Cables and Bulbs.

- With Shallow Chromium Plated non-Battery Type Head Lamp.
- Standard Twelve (12 pole).
Front and Rear Lamp Set.
- No. 25/L96a/1809 per set 25/-
Front Lamp Set, less Rear. per set 22/6
- No. 25/L96d/1610 per set 22/6
Standard Baby Set.
Front and Rear Lamp Set. per set 23/6
- No. 25/L99a/1708 per set 23/6
Front Lamp Set, less Rear. per set 21/-
- No. 25/L99d/1509 per set 21/-
Chromium Front Head Lamp, with Bulb and Cable only.
- No. 25/L96h/810 each 7/9
Rear Lamp with Bulb and Cable.
Stay Fitting.
- No. 25/L96m/203 each 3/-
Bolt on Mudguard Fitting with Sidelights.
- No. 25/L96p/203 each 3/-

- Battery Model (Pocket Type) Head Lamps.
Complete with Battery.
- Argus Twelve (12 pole).
Front and Rear Lamp Set.
- With Black and Chromium Plated Head Lamp.
- No. 25/L98a/1911 each 26/6
Front Lamp Set, less Rear. per set 24/-
- No. 25/L98d/1800 per set 24/-
Argus Baby Sets.
Front and Rear Lamp Set. per set 25/-
- No. 25/L99g/1809 per set 25/-
Front Lamp Set, less Rear. per set 22/6
- No. 25/L99m/1611 per set 22/6
Front Head Lamp with Battery, Bulb and Cable.
- No. 25/L98h/702 each 9/6
Sirius Twelve (12 pole).
Front and Rear Lamp Set.
- With all Chromium Plated Head Lamp.
- No. 25/L98g/2003 per set 27/-
Front Lamp Set less Rear. per set 24/6
- No. 25/L98k/1805 per set 24/6
Sirius Baby Sets.
Front and Rear Lamp Set. per set 25/6
- No. 25/L99e/1901 per set 25/6
Front Lamp Set, less Rear. per set 23/-
- No. 25/L90w/1702 per set 23/-
Front Head Lamp with Battery, Bulb and Cable.
- No. 25/L98l/706 each 10/-



"MANDAW" CYCLE DYNAMO ELECTRIC LIGHTING SETS (Foreign). Model M1.

Black and Chromium Plated Head Lamp, 3" dia., with Bevelled Edge Glass and Special Reflector, 6 volt Anti-Dazzle Bulb, with rustless Theft-proof Holder and Bracket, Focus Action which can be adjusted to produce a concentrated beam of light for a very long distance or a widespread light for a shorter distance.

Front and Rear Lamps, complete with Bulbs, Cables and 6 volt Chromium Plated Dynamo.

- No. 25/L100a/304 per set 14/-
25/L100h/304 Head Lamp only with Bulb each 5/-

For "BRAVO" and "LUCAS" DYNAMO
MUD SHIELDS
See pages 233 and 234.

Branches:
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LAMPS (DRY BATTERY)—continued



MANDAW REAR LAMP No. 123B.

PATENT No. 429400.

"MANDAW" ELECTRIC CYCLE REAR LAMP No. 123B. British made.

Complete with No. 533B Unit Cell Battery. U2 type, special low consumption bulb and fitted with universal clip for "D," Round or Oval back stays.

Red non-breakable reflector, cone shape, to reflect light to both rear and sides.

Black with Plated Mounts.

No. 25/L270p/5 each 1/-



"WARNU" ELECTRIC CYCLE LAMP (No. 888b)

Complete with U2 type Battery No. 533b and special Bulb giving 60 hours' light, fitted with universal clip for "D" Round or Oval stays, patent design red faceted glass, shaped to reflect red light both to rear and side.

British made.

Patent applied for. Regd. No. 791557.

Ivory White finish with Black Band Clip.

No. 25/L270w/100 each 1/6

25/L270x/100 Black finish .. 1/6



MANDAW No. 127 B

"MANDAW" TWIN CELL ELECTRIC CYCLE LAMP (No. 127b)

Black with Plated Mounts, Screw-down Switch, Spring-on Front and Fixed Bracket. Complete with Twin cell Battery and 2-5 volt. Bulb. British made.

No. 25/L271c/100 each 1/6

25/L271c/1106 per doz. —

25/L271c/1106 Gross lots



BLUEMEL'S "DUALITE" COMBINED ELECTRIC REAR LAMP

Fitted with approved Prismatic Reflecting Glass. Complete Battery and Bulb with clip to fit on top back stays.

Model No. 1.

With Ever-Ready No. 1839 Battery.

No. 25/L284b/204 Black .. each 3/6

25/L284c/204 Ivory White .. 3/6

Model No. 2.

With Ever-Ready No. U2 Battery.

No. 25/L284d/204 Ivory White each 3/6



EVER-READY "LONGLIFE"

Plain flat glass 2 1/4", height 3 1/4", with handle, complete with No. 800 Dry Battery and Bulb. Fitted with spare bulb holder only in lid.

Ebony and Nickel. No. 2036.

No. 25/L300a/102 each 1/9

All Chromium Plated (2436).

No. 25/L300cp/304 each 5/-

All White Enamelled (2036).

No. 25/L300w/108 each 2/6

Carton No. 1, one each of Maroon, Turquoise Blue, Olive Green.

No. 25/L300b/500 per carton 7/6

Carton No. 2, one each of Light Blue, Dark Red, Grass Green.

No. 25/L300c/500 per carton 7/6



"EVER-READY" (No. 2439)

Black Enamelled with Chromium Plated mounts, switch to give dim and bright light, greenside lights and adjustable fixed bracket. Complete with No. 800 Battery and Bulb.

No. 25/L301L/408 each 7/-

"EVER-READY" ELECTRIC CYCLE LAMP (No. 2236)

Black Enamelled fitted with Octagonal Chromium Plated Rim.

Complete with No. 800 Battery and Bulb.

No. 25/L300k/208 each 4/-



THE "CYGLOW" CYCLONE ELECTRIC CYCLE REAR LAMP (C910)

Black Enamelled on brass, complete with "U" type Unit Cell Battery and special low consumption Bulb with clip to fit "D," Round or Oval stays or lamp can be bolted through mudguard.

Fitted with special extended ruby faceted glass, shaped to reflect red light both to rear and side.

No. 25/L295w/100 each 1/6



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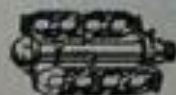
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PEDALS

CONTINENTAL RACING RAT TRAP PEDALS

Solid Centres with Hollowed Spindles at Crank end.

Made and Designed by the World Famous "Pierre Lyotard," the largest Racing and Light-weight Pedal Manufacturer. The Lightest and Finest for Workmanship, Quality and Finish in Continental make.



"Tour de France" (No. 15B).
Chromium Plated on forged steel, 3½" wide.
Weight 7½ oz.

No. 25/P26b/501 per pair 6/9



"Quill Pattern" (No. 45CA).
Duralium and Chromium Plated Steel with
slots for straps. Weight 5 oz.

No. 25/P26f/609 per pair 9/-



"Racing Pedals" No. 240.
Duralium 4" wide. Weight 5½ oz.

No. 25/P26r/706 per pair 10/-

"Faucheux" (No. 158).
Chromium Plated on forged steel, 3½" wide.
Weight 6½ oz.

No. 25/P26d/508 per pair 7/6

"Quill Pattern" (No. 45 Ter).
Duralium Track Pedal. Weight 4½ oz.
The lightest pedal as used in Tour de France.

No. 25/P26h/1103 per pair 15/-

"Racing Pedals" (No. 460).
Duralium 3½" wide. Weight 5½ oz.

No. 25/P26t/609 per pair 9/-



CONTINENTAL RACING PEDALS. (Foreign.)

Special design with plate for toe clip and slots for strap fixing.

Solid centre.

Width to suit shoes from 3" to 4".

Plated Steel.

No. 25/P26s/500 per pair 6/9



These Pedals are extensively used by all the best Continental riders, for Tour de France Road and Track Races.

"B.S.A." "CHATER LEA" AND "SIMPLEX"



"SIMPLEX" SOLID CENTRE
DURALUMIN RACING RAT TRAP
PEDALS

Foreign.

Hollowed spindle at crank end with two
centre struts. 3½" wide, polished.

No. 25/P25/702 per pair 9/6



"B.S.A." RAT TRAP PEDALS
Solid Centre.

To suit "Williams" Cranks.

Chromium Plated.

No. 25/P29/405 per pair 5/9



"B.S.A." RAT TRAP
Chromium Plated.

No. 25/P32f/1007	3½"	per pair	11/-
25/P32g/1007	3½"	"	11/-
25/P32h/1007	3½"	"	14/-
25/P32k/1007	4"	"	14/-
25/P32l/1109	4½"	"	15/-

All Black.

No. 25/P33f/1007	3½"	per pair	11/-
25/P33g/1007	3½"	"	14/-
25/P33h/1007	3½"	"	14/-
25/P33k/1007	4"	"	14/-



"B.S.A." SINGLE RUBBER

Nickel Plated.

No. 25/P36f/1007	3½"	per pair	14/-
25/P36g/1007	3½"	"	14/-
25/P36h/1007	3½"	"	14/-
25/P36k/1007	4"	"	14/-



"B.S.A."
RACING RAT TRAP PEDALS

Suitable for "Williams" or other make
Cranks.

Chromium Plated.

No. 25/P28b/408 per pair 6/3



"CHATER-LEA"

RACING RAT TRAP PEDALS

Spindles with hole for tommybar fitting.

Chromium Plated.

No. 25/P89c/905 per pair 12/-

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PEDALS—continued

"BRAMPTON"



"SUPERBE" SOLID CENTRE RACING RAT TRAP. 3½" wide.

Chromium Plated. No. 580.
No. 25/P49/507½ .. per pair 7/6



UNIVERSAL RAT TRAP

4" wide.

Chromium Plated. No. 22.
No. 25/P531/106½ .. per pair 2/1



UNIVERSAL JUVENILE RUBBER PLATED. 3" wide.

Chromium Plated. No. 12.
No. 25/P55/108½ .. per pair 2/4

UNIVERSAL SINGLE RUBBER

Chromium Plated.

3½" wide. No. 11.

No. 25/P58b/110½ .. per pair 2/6

4" wide. No. 10.

No. 25/P58d/110½ .. per pair 2/6

4½" wide. No. 13.

No. 25/P58e/201 .. per pair 2/10

4½" wide. No. 14.

No. 25/P58f/201 .. per pair 2/10



Nos. 10, 11, 13 and 14



No. 600



No. 610

TRADESMAN'S CARRIER

No. 600.

4½" wide. All Black.

No. 25/P58w/209 .. per pair 3/8



Nos. 555 to 558

G.P.O. PATTERN

4½" wide. Dull Black. No. 610.

No. 25/P58x/502 .. per pair 6/11

SUPERBE SINGLE RUBBER

Chromium Plated.

No. 25/P56k/201 4". No. 555 pair 2/10

25/P56l/203 4½". No. 557 .. 3/-

25/P56m/203 4½". No. 558 .. 3/-

All Black.

No. 25/P57k/111½ 4". No. 555 pair 2/8

25/P57l/201½ 4½". No. 557 .. 2/10

25/P57m/201½ 4½". No. 558 .. 2/10



UNIVERSAL RACING RAT TRAP

No. 20.

Chromium Plated.

No. 25/P64b/109 .. per pair 2/4



UNIVERSAL RACING RAT TRAP

No. 23.

Chromium Plated.

No. 25/P64l/109½ .. per pair 2/5

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"ANGLO" RACING RAT TRAP
Chromium Plated.
No. 25/P210/204 .. per pair 3/2
25/P210/2706 doz. pairs —



"GELTONIA" RUBBER RAT TRAP. 4" wide.
Chromium Plated.
No. 25/P222b/266} .. per pair 3/-
sets of Rubbers, Plates and Nuts and
Bolts complete for above.
No. 25/P432/100 per set 1/4



"GELTONIA" RACING RAT TRAP
Nickel Plated.
No. 25/P228/107 .. per pair 2/2
25/P228/1806 doz. pairs —
Chromium Plated.
No. 25/P229/108} .. per pair 2/4
25/P229/2000 doz. pairs —



"PHILLIPS" PATENT RUBBER
Complete with Ball Bearing Spindles.
No. 25/P250g/205 Lady's 3 1/2" pair 3/3
25/P250k/205 Gent's 4" .. 3/3
25/P250l/205 .. 4 1/2" .. 3/3
Replacement Rubbers for same.
No. 25/P431g/101 Lady's 3 1/2" pair 1/6
25/P431k/101 Gent's 4" .. 1/6
25/P431l/101 .. 4 1/2" .. 1/6

PEDALS—continued
PHILLIPS



"ANGLO" SINGLE RUBBER
Nickel Plated.
No. 25/P215k/201 4" per pair 2/10
25/P215k/2406 doz. pairs —
Chromium Plated.
No. 25/P216k/202} 4" per pair 3/-
25/P216k/2800 doz. pairs —



"APOLLO" RACING RAT TRAP
Chromium Plated.
No. 25/P222m/108} per pair 2/4
25/P222m/2000 doz. pairs —



"PHILCO" DIAMOND RUBBER
Nickel Plated.
No. 25/P245g/107 3 1/2" per pair 2/2
25/P245g/1806 doz. pairs —
25/P245k/107 4" per pair 2/2
25/P245k/1806 doz. pairs —
25/P245l/110} 4 1/2" per pair 2/6
25/P245l/2200 doz. pairs —
25/P245m/110} 4 1/2" per pair 2/6
25/P245m/2200 doz. pairs —
Chromium Plated.
No. 25/P246g/108} 3 1/2" per pair 2/4
25/P246g/2000 doz. pairs —
25/P246k/108} 4" per pair 2/4
25/P246k/2000 doz. pairs —
25/P246l/200 4 1/2" per pair 2/8
25/P246m/200 4 1/2" .. 2/8

All Black.
No. 25/P247g/107 3 1/2" per pair 2/2
25/P247g/1806 doz. pairs —
25/P247k/107 4" per pair 2/2
25/P247k/1806 doz. pairs —
25/P247l/110} 4 1/2" per pair 2/6
25/P247l/2200 doz. pairs —
25/P247m/110} 4 1/2" per pair 2/6
25/P247m/2200 doz. pairs —



"ANGLO" LEATHER BLOCK
4 1/2" wide with 1" Blocks.
Nickel.
No. 25/P218m/309 .. per pair 5/-
25/P218m/4400 doz. pairs —



"GELTONIA" RAT TRAP
Nickel Plated. 4" wide.
No. 25/P225k/104} .. per pair 1/10
25/P225k/1600 doz. pairs —
Chromium Plated. 4" wide.
No. 25/P226k/105 .. per pair 2/-
25/P226k/1706 doz. pairs —



"GELTONIA" SINGLE RUBBER
Nickel Plated.
No. 25/P235g/108 3 1/2" per pair 2/3
25/P235g/1906 doz. pairs —
25/P235k/108 4" per pair 2/3
25/P235k/1906 doz. pairs —
Chromium Plated.
No. 25/P236g/109} 3 1/2" per pair 2/5
25/P236g/2100 doz. pairs —
25/P236k/109} 4" per pair 2/5
25/P236k/2100 doz. pairs —
All Black.
No. 25/P237k/108 4" per pair 2/3
25/P237k/1906 doz. pairs —



"GRANDE VITESSE"
RACING RAT TRAP
Chromium Plated.
No. 25/P232/202} per pair 3/-

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Brown Brothers

SADDLES

"REBO" AND "VINDEC"



"REBO" ROADSTER

With Extended Front Coil Spring and Six-wire Bracket.

Enamelled. Size 11" x 6 1/2".

No. 25/S52g/509 each 8/-
25/S52g/6800 per doz. —



"VINDEC" GENT'S LIGHT ROADSTER

With Four-wire Enamelled Springs.

Size 10" x 8".

No. 25/S58e/304 each 5/-
25/S58e/3906 per doz. —



"VINDEC" LADY'S LIGHT ROADSTER

With Four-wire Enamelled Springs.

Size 10" x 8".

No. 25/S58g/304 each 5/-
25/S58g/3506 per doz. —



"VINDEC"

CARRIER OR BOX TRICYCLE

Best Waterproof Leather Top.

Specially made for hard wear. With Girder Bracket, Heavy Gauge Barrel Type Coil Springs.

Size 10 1/2" x 8 1/2". Enamelled Springs.

No. 25/S61c/406 each 6/6



"VINDEC" LIGHT ROADSTER

With Enamelled Coil Springs.

Size 10" x 8".

Gent's.

No. 25/S61e/309 each 5/6
25/S61e/4400 per doz. —

Lady's.

No. 25/S61g/309 each 5/6
25/S61g/4400 per doz. —



"VINDEC" RACING SADDLE

Superior Quality.

With Four-wire Enamelled Springs.

Size 11 1/2" x 7".

No. 25/S61h/308 each 5/6
25/S61h/4300 per doz. —

With Two-wire Enamelled Springs.

Size 11" x 7".

No. 25/S61r/308 each 5/6

Narrow Size 11" x 6".

No. 25/S61r/308 each 5/6



"VINDEC" JUNIOR FOUR WIRE

With Enamelled Spring and 1/2" Clip.

Size 8 1/2" x 7 1/2".

No. 25/S62a/204 each 3/6
25/S62a/2700 per doz. —



"VINDEC" JUNIOR SADDLE

With Enamelled Coil Springs.

Size 9" x 6 1/2". With 1/2" Clips.

No. 25/S62d/205 each 3/6
25/S62d/2800 per doz. —

Size 8 1/2" x 6 1/2". With 1/2" Clips.

No. 25/S62g/203 each 3/3
25/S62g/2800 per doz. —



"VINDEC"

SPRING SEAT SADDLES

Racing Model. British Made.

Size 11" x 7". Weight 2 lbs.

Black Leather Cloth Tops.

Black Enamelled Flat Girder Base Frame.

No. 25/S65d/306 Gent's .. each 5/6

With Single Round Wire Base Frame.

No. 25/S65h/306 Gent's .. each 5/6

25/S65k/306 Lady's each 5/6

Genuine Brown Flexible Leather Top.

Black Enamelled.

With Single Round Wire Base Frame.

No. 25/S67h/509 Gent's .. each 5/6



"VINDEC" MIDGET SADDLES

With Enamelled Springs.

Size 8 1/2" x 6 1/2".

With Clip to fit 1/2" dia. pillar.

No. 25/S62l/107 each 2/3
25/S62l/1806 per doz. —

With Clip to fit 3/4" dia. pillar.

No. 25/S62m/107 each 2/3
25/S62m/1806 per doz. —



RACING CYCLE SADDLE SUPPORTS

With clip to fit on top tube and loop to fit over Saddle Tension Bolt. Right- and left-hand adjusting screws with centre hole for tightening.

Principally used for road and track racing.

No. 25/S420/100 each 1/6

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SADDLES—continued
"BROOKS"



"BROOKS" B17CH GENT'S
Solid butt. Hide tops. Enamelled.

- Standard Size 11" x 6 1/2" x 2 1/4".
Weight 1 lb. 12 oz.
No. 25/S125c/1010 .. each 15/3
Narrow, Gent's. Size 11" x 6" x 2 1/4".
Weight 1 lb. 9 oz.
No. 25/S125d/1010 .. each 15/3
Sprinter, Gent's. Size 11" x 4 1/2" x 2 1/4".
Weight 1 lb. 8 oz.
No. 25/S125e/1010 .. each 15/3



"BROOKS" B18 GENT'S

- Solid butt. Hide top.
Size 10 1/2" x 8 1/2" x 2 1/4". Enamelled.
Weight 1 lb. 11 oz.
No. 25/S126a/711 .. each 11/-



"BROOKS" CHAMPION
NARROW ROAD RACING

- Solid butt. Hide top. Enamelled.
Size 12 1/2" x 6" x 2 1/4".
Weight 1 lb. 14 oz. B19.
No. 25/S127a/1300 .. each 19/-
Size 11" x 6" x 2 1/4". Weight 1 lb. 8 oz. B15.
No. 25/S124/311 .. each 12/6



"BROOKS" MODEL B22 RACING
GENT'S

- Two-wire Base Frame. Enamelled.
Size 10 1/2" x 6" x 2 1/4". Weight 1 lb. 7 oz.
No. 25/S128m/400 .. each 6/-



"BROOKS" B17 CHAMPION
FLYWEIGHT FLYER SADDLES

- With spring steel Two-wire Base Frame.
Black Enamelled.
Solid Butt Hide Top, trimmed close to
frame. Chamfered flaps.
Size 11" x 5 1/2" x 2 1/4". Weight 1 lb. 2 oz.
No. 25/S125k/1203 .. each 16/9

"BROOKS" B17 CHAMPION
FLYWEIGHT NARROW SADDLES

- With spring steel Two-wire Base Frame.
Black Enamelled.
Solid Butt Hide Top with Chamfered
Flaps.
Size 11" x 6" x 2 1/4". Weight 1 lb. 3 oz.
No. 25/S125m/1203 .. each 16/9



"BROOKS" B18 LADIES'
SADDLES

- Solid Butt Hide Top.
Size 9 1/2" x 8 1/2" x 2". Enamelled.
Weight 1 lb. 10 oz.
No. 25/S126h/711 .. each 11/-



"BROOKS" MODEL B21 GENT'S

- Size 10 1/2" x 8 1/2" x 3 1/4". Weight 2 lb. 2 oz.
No. 25/S128g/400 .. each 6/-

"BROOKS" MODEL B2

- Weight 2 lb. 2 oz.
Size 10 1/2" x 8 1/2" x 3 1/4".
No. 25/S136c/404 Gent's. each 6/6
Size 9 1/2" x 8 1/2" x 3 1/4".
No. 25/S136d/404 Lady's. each 6/6

"BROOKS" B73 GENT'S SADDLE

- Selected Butt Hide Top with Three-coil
Enamel Springs.
Size 10 1/2" x 8 1/2" x 3 1/4".
Weight 2 lb. 6 oz.
No. 25/S129c/804 .. each 12/6



"BROOKS" B17 CHAMPION
SWALLOW

- Solid butt. Hide top. Side flaps cut-away
Two-wire base frame.
Size 11 1/2" x 6" x 3". Weight 1 lb. 9 oz.
No. 25/S125a/1406 .. each 26/-
The side flaps being cut-away and stitched
prevent spreading and eliminate their
friction.



"BROOKS" B18G GENT'S

- Solid butt. Hide top.
Size 11" x 6 1/2" x 2". Enamelled.
Weight 1 lb. 10 oz.
No. 25/S126f/1006 .. each 11/-



"BROOKS" MODEL B29 GENT'S

- Four-wire Base Frame. Enamelled.
Size 10 1/2" x 8 1/2" x 2". Weight 1 lb. 10 oz.
No. 25/S128d/400 .. each 7/6

"BROOKS" MODEL B5

- Weight 1 lb. 9 oz.
Gent's. Size 10 1/2" x 8 1/2" x 2".
No. 25/S136e/404 .. each 6/6



"BROOKS" MODEL B23 GENT'S

- Four-wire Base Frame with Single
Front Coil Spring. Enamelled.
Size 12" x 8 1/2" x 3 1/4". Weight 2 lb. 6 oz.
No. 25/S128r/404 .. each 12/6

"BROOKS" MODEL B6 GENT'S

- Size 10 1/2" x 8 1/2" x 3 1/4". Weight 2 lb. 6 oz.
No. 25/S136a/409 .. each 7/6

Branches:
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Branches:
Belfast, Leeds, Liverpool,
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Wolverhampton

SADDLE COVERS—continued, SADDLE SUPPORTS



THE "RESILION" SADDLE COVER

New Standard pattern and rubber sponge fitting.
 Gent.'s Model No. A3.
 Size 10" x 8" to 11" x 9 1/2". Weight 7 1/2 oz.
 25/S393a/609 For B10 .. each 9/-
 Gent.'s Model No. A5.
 Size 11 1/2" x 9". Weight 9 oz.
 25/S395a/609 For B90/2 .. each 9/-
 We carry stocks of all sizes listed, other sizes or patterns can be obtained to special order in a few days.



"BROOKS" SADDLE UNDERGUARD

(Provisional Patent)
 Can be quickly fitted under saddle top and held in position by back plate and tension pin. Specially suitable for Racing Cyclists without mudguard in wet weather to protect saddle.

- To fit Champion Standard Saddles.
 No. 25/S440a/400 per doz. 6/-
 To fit Champion Narrow Saddles.
 No. 25/S440b/400 per doz. 6/-
 To fit Champion Flyer Saddles.
 No. 25/S440c/400 per doz. 6/-



THE "CUSH-TEX" SPONGE RUBBER REVERSIBLE WATERPROOF SADDLE COVER

Imitation Seede material with Sponge Rubber. To suit ordinary standard size saddles.
 No. 25/S391a/104 each 2/-



"ROSA" CYCLE SADDLE SUPPORTS

With clip to fit on top tube and loop to fit over Saddle Tension Bolt.
 Fitted with eye bolt to allow for saddle weight.
 Chromium Plated.

Support being fitted with a tube and rod eye bolt fastening similar to that used on a screw, allows for a saddle height adjustment from 6 1/2" to 10" fully extended.
 25/S421/102 each 1/9



RACING CYCLE SADDLE SUPPORTS

With clip to fit on top tube and loop to fit over Saddle Tension Bolt. Right- and left-hand adjusting screws with centre hole for tightening. Principally used for road and track racing.

On Display Cards of 6.
 Chromium Plated.
 No. 25/S420/100 each 1/6



GENT'S SEAT LUG

Malleable Casting.
 With Bolt and Nut.
 Best Quality. Parallel.
 1 1/2" x 1".

- 25/S451c/6 each -/9
 25/S451c/606 per doz. —

Best Quality. Sloping.
 1 1/2" x 1".

- 25/S452c/6 each -/9

"B.S.A." Genuine.
 Pattern A/P or B.
 Malleable Casting.

With Plated Bolt and Nut.
 1 1/2" x 1".

- 25/S456a/106 each 1/11



LADY'S SEAT LUG

Malleable Casting.
 With Bolt and Nut.

- No. 25/S462d/6 1/2" each -/9
 25/S462d/503 per doz. —
 25/S462e/6 1" each -/9
 25/S462e/503 per doz. —
 25/S462f/6 1 1/4" each -/9
 25/S462f/503 per doz. —



"BRAMPTON" SEAT LUG

Malleable Casting.
 With Bolt and Nut (850036)
 1 1/2" Spigoted 1/2".

- No. 25/S476a/9 each 1/-



Standard.



Upright.

RIGID SEAT LUGS, MALLEABLE CASTING WITH BOLT AND NUT

For Granby Frames.
 Size 1 1/2" x 1 1/2" x 66"
 For standard angle.

- Plain.
 No. 25/S470c/107 each 2/2
 Size 1 1/2" x 1" x 71" for upright.
 Plain.
 No. 25/S471c/107 each 2/2
 Fish-tailed.
 No. 25/S471d/108 each 2/3

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SEAT LUGS—continued

**"BRAMPTON"**

Malleable Casting.
With Bolt and Nut.

$1\frac{1}{2}'' \times 1'' \times 60''$ Parallel (850003).
Spigoted $\frac{1}{2}''$. Plain.

No. 25/S475k/11 .. each 1/3
25/S475k/1009 per doz. —

Fish-tailed.

No. 25/S475m/100 .. each 1/4
25/S475m/1109 doz. —

$1\frac{1}{2}'' \times 1'' \times 70''$ Parallel.

For Upright Seat Tube.

Spigoted $\frac{1}{2}''$. (850007) Plain.

No. 25/S475t/100 .. each 1/5

Fish-tailed.

No. 25/S475n/101 .. each 1/6

"B.B.L." Malleable Casting.

With Bolt and Nut.

$1\frac{1}{2}'' \times 1'' \times 73''$ Parallel.

For Upright Seat Tube.

Spigoted $\frac{1}{2}''$. Plain.

No. 25/S475p/11 .. each 1/4

Fish-tailed.

No. 25/S475r/100 .. each 1/5

**"CHATER LEA"****FRONT TANDEM SEAT LUG**

For Two Gent.'s. $1\frac{1}{2}'' \times 1\frac{1}{2}''$.

With Chromium Plated Bolt and Nut.

For No. 12B and 14 Sets. 66".

(No. 1431). Plain.

No. 25/S494n/203 .. each 2/11

Cut-away.

No. 25/S494d/205 .. each 3/2

For No. 90 and 92 Sets. 71".

(No. 1579).

Plain.

No. 25/S494f/202 .. each 2/11

Cut-away.

No. 25/S494g/204 .. each 3/2

**"BRAMPTON"****FRONT TANDEM SEAT LUG**

Malleable Casting.

With Bolt and Nut.

For Two Gent.'s (850600).

$1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1\frac{1}{2}''$. Plain.

No. 25/S480n/102 .. each 1/7

Fish-tailed.

No. 25/S480b/104 .. each 1/9

**"BRAMPTON"****FRONT TANDEM SEAT LUG**

Malleable Casting.

With Bolt and Nut.

For Lady Back (850602).

$1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 68 \times 64\frac{1}{2}''$.

Plain.

No. 25/S480t/102 .. each 1/7

Fish-tailed.

No. 25/S480m/104 .. each 1/9

**"BRAMPTON"****REAR TANDEM GENT.'S SEAT LUG**

Malleable Casting.

With Bolt and Nut (850601).

$1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 68''$. Plain.

No. 25/S480d/101 .. each 1/5

Fish-tailed.

No. 25/S480e/102 .. each 1/7

**"B.S.A." GENUINE**

Malleable Casting.

With Bolt and Nut.

$1\frac{1}{2}'' \times 1'' \times 65\frac{1}{2}''$ Parallel.

(No. L169).

Spigoted $\frac{1}{2}''$. Plain.

No. 25/S484c/106 .. each 1/11

**"CHATER LEA"****LADY'S RIGID SEAT LUG**

Without Loose Stay Eyes. With Chromium Plated Bolt and Nut.

For Single or Tandem Sets.

$1\frac{1}{2}''$ (No. 682-2). Plain.

No. 25/S492c/103 .. each 1/8

**"BRAMPTON"****REAR TANDEM LADY'S SEAT LUG**

Malleable Casting.

With Bolt and Nut (850603).

$1\frac{1}{2}''$. Plain.

No. 25/S480n/11 .. each 1/2

**"CHATER LEA"****GENT.'S RIGID SEAT LUG**

Without Loose Stay Eyes. With Chromium Plated Bolt and Nut.

For Cycle.

$1\frac{1}{2}'' \times 1'' \times 68''$ (No. 682-1).

Plain.

No. 25/S490e/105 .. each 1/18

Cut-away.

No. 25/S490g/106 .. each 1/11

For Upright Cycle.

$1\frac{1}{2}'' \times 1'' \times 73''$ (No. 1562).

Plain.

No. 25/S490h/105 .. each 1/11

Cut-away.

No. 25/S490k/106 .. each 1/11

Tandem.

$1\frac{1}{2}'' \times 1\frac{1}{2}''$ (No. 909).

For No. 12B and No. 14. 66".

Plain.

No. 25/S490p/106 .. each 2/11

Cut-away.

No. 25/S490s/109 .. each 2/11

For No. 90 and 92. 71".

Plain. (No. 1580-1).

No. 25/S490w/107 .. each 2/11

Cut-away.

No. 25/S490x/109 .. each 2/11

"CHATER LEA" SEAT LUG

For Carrier Tricycles, complete with Stay Eyes, Bolt and Nut.

For Drop Chassis Model (1444).

No. 25/S496e/302 Size $1\frac{1}{2}'' \times 1\frac{1}{2}''$ each 4/2

For
SEAT LUG
EYES or EARS
see page 121.

Branches:
Aberdeen, Acton, Belfast
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TOE CLIPS—continued



NEW SPORTS TOE CLIPS

With fine adjustable fitting plates. Two wide loops to hold strap out to pedal width.

All Black. (No. 4.)

No. 25/T170m/8 .. per pair 1/11
25/T170m/703 .. doz. pairs —



"SPORTIE" TOE CLIPS

Light Spring Steel.

Nickel Plated. (No. 9.)

No. 25/T170p/9 .. per pair 1/1
25/T170p/805 .. per doz. pairs —



"SPORTS" TOE CLIPS

Light and strong, with extra length for strap to come over shoe.

Nickel Plated. (No. 17.)

No. 25/T171a/8 .. per pair 1/1
25/T171a/709 .. per doz. pairs —



"SPORTEX" TOE CLIPS

Light Spring Steel.

Nickel Plated. (No. 10.)

No. 25/T170t/10 .. per pair 1/3
25/T170t/902 .. doz. pairs —



"ACE" TOE CLIPS

Light Spring Steel, less Straps.

Nickel Plated. (No. 20L.)

No. 25/T171l/9 .. per pair 1/1

Chromium Plated. (No. 20LC.)

No. 25/T171m/100 .. per pair 1/5



"WANDERLUST" TOE CLIPS. (No. 15.)

With fine adjustable fitting plates over 2" to suit individual rider.

Nickel Plated, with Chrome Straps.

No. 25/T172k/108 .. per pair 1/1
25/T172k/1906 .. per doz. pairs —

Nickel Plated, without Straps.

No. 25/T172l/101 .. per pair 1/1

Chromium Plated, with Chrome Straps.

No. 25/T172m/200 .. per pair 1/1



"VELOX" TEMPERED SPRING STEEL WIRE TOE CLIPS

With fine adjustable fitting plates.

For Rat-trap Pedals.

With Standard Chrome Straps.
(No. 8A.)

No. 25/T172a/103 .. per pair 1/10
25/T172a/1405 .. doz. pairs —

With special lightweight
Chrome Straps. (No. 8B.)

No. 25/T172b/104 .. per pair 2/-

Toe Clips without Straps. (No. 8.)
No. 25/T172d/8 .. per pair 1/-



For Rubber Pedals.

With Standard Chrome Straps.
(No. 8AR.)

No. 25/T172e/108 .. per pair 2/6

Toe Clips only, without Straps.
(No. 8R.)

No. 25/T172f/102 .. per pair 1/8



LIGHTWEIGHT NARROW SPRING STEEL TOE CLIPS

Less Straps.

Made specially to suit B.S.A., Boa and Vignettes etc. Racing Pedals.

Black Enamelled. (No. 19.)

No. 25/T173p/10 .. per pair 1/1

Chromium Plated. (No. 19LC.)

No. 25/T173s/100 .. per pair 1/1

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TOURIST BAGS—continued. TOURIST PANNIERS



"MIDLAND" TANDEM TOURIST BAG

Model No. 1323.

Black Rubber Faced Waterproof Material.

With strong steel suspension bar, leather underpatch, two end pockets, one fitted with integral tool roll, and front pocket, hooded front flap, three back and two front straps, cape strap loops, Less cape straps.

Size 15" x 13" x 8".

No. 25/T458t/710 .. each 11/9



"MIDLAND" TOURIST BAG DISPLAY UNIT (No. 3)

Bracket type Display, with flange and screw holes for shop fascia, wall or stock racks, and is attractively enamelled on both sides and will display one "Midland" Tourist Bag.

One pair of these Enamelled Brackets will be sent free of charge to all dealers for an order of 6 "Midland" Tourist Bags assorted if required. Retail from 3/6 each upwards.



HUTCHINSON "CHROMIDE" TOURIST BAG

Black chrome leather with two end and one front hooded pockets, leather underpatch to take wear, metal stiffener, two cape straps.

Size 13" x 6 1/2" x 8".

Without Lock.

No. 25/T466c/1004 each 15/6

Branches:
Aberdeen, Aston, Belfast
Birmingham, Birmingham
Bristol, Cardiff, Chelsea
Croydon, Dublin, Dundee
Exeter, Glasgow, Edinburgh
Glasgow, Liverpool



"MIDLAND" TOURING BAG DISPLAY UNIT (No. 1)

The manufacturers have decided to offer to dealers the above very attractive Display Stand free of charge for orders of 1 dozen "Midland" Touring Bags, retail from 3/6 each upwards.

This Display Stand is made of steel tubes and attractively light blue enamelled, and valued at 7/6.

Made to display three Touring Bags by simply sliding along the tubes and securing by the saddle or hanging straps.

Each Stand boxed, and fitting instructions included.



HUTCHINSON TOURIST BAGS

Black waterproof straight grain heavy leather cloth with front and two hooded end pockets, metal stiffener, two cape straps.

"GLOBE TROTTER" No. 1

Size 13" x 7 1/2" x 7".

No. 25/T466g/502 each 7/9

"DUPLEX" No. 1

As above without front pocket.

Size 12 1/2" x 7" x 7".

No. 25/T466k/404 each 6/6

"UNIC" No. 1

With one end pocket.

Size 12" x 7 1/2" x 6 1/2".

No. 25/T466m/306 each 5/6

For
TOURIST ADDRESS LABELS
OR DISCS
see page 1.



"MIDLAND" TOURING BAG DISPLAY UNIT

(No. 2)

Upright Model Display Stand is offered free of charge to dealers for an order of 1 dozen "Midland" Touring Bags, retail for 3/6 each upwards. This display is 4' high and is introduced for those who would prefer it to stand in the shop doorway or in the shop itself, leaving merchandise on the counter.

Enamelled. Each stand boxed, and fitting instructions included.



"MIDLAND" TOURIST PANNIER BAGS

Made of strong waterproof black rubber drill, fitted with two straps, pressure buckles.

Size of panniers each 12" x 10" x 6". Complete with black enamelled saddle sitting carrier. (No. 592).

No. 25/T480a/806 per set 10/6

Panniers without carrier per set 7/6

No. 25/T480d/700 per set 7/6



"MIDLAND" TOURIST PANNIER BAGS

Black waterproof rubber drill.

Size 11 1/2" x 11 1/2" x 3 1/2".

Complete, riveted to carrier (No. 100)

No. 25/T480e/409 per set 10/6

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DUNLOP WESTWOOD RIMS

Drilled 32, 36 and 40 holes. Standard sizes.

No. 27/60b/302	Bright	per pair	4/3
27/61b/309	Black Enamelled .. .. .	..	5/-
27/62b/400	Nickel Plated .. .. .	..	5/4
27/62bc/502	Chromium Plated .. .. .	..	7/-
27/63b/403	Nickel Plated, Black Centres .. .. .	..	5/8
27/63bc/505	Chromium Plated, Black Centres .. .. .	..	7/3
27/64b/405	Nickel Plated, Centred and Lined .. .. .	..	6/-
27/64bc/507	Chromium Plated, Centred and Lined (Red, Green or Gold) .. .. .	..	7/6

DUNLOP WEDGEWOOD RIMS

No. 27/65e/311	Black Enamelled	per pair	5/-
27/66a/402	Nickel Plated .. .. .	..	5/6
27/66ac/504	Chromium Plated .. .. .	..	7/3

B.B.L. WESTWOOD RIMS

No. 27/60a/208	Bright	per pair	3/8
27/61a/305	Black Enamelled .. .. .	..	4/6
27/62a/308	Nickel Plated .. .. .	..	5/-
27/62ac/408	Chromium Plated .. .. .	..	6/3
27/63a/310	Nickel Plated, Black Centres .. .. .	..	5/2
27/63ac/500	Chromium Plated, Black Centres .. .. .	..	6/8
27/64a/400	Nickel Plated, Centred and Lined .. .. .	..	5/4
27/64ac/502	Chromium Plated, Centred and Lined .. .. .	..	7/-



"CONSTRUCTOR" CONLOY HOLLOW RIMS, W.O.

Size: 26" x 1 1/2". Drilled 32/40 holes.

No. 27/71c/3005 .. per pair 38/-

"CONSTRUCTOR" CONLOY SPRINT RIMS

Size: 26" and 27" x 1 1/2".

Drilled 32/40 holes.

No. 27/71d/2605 .. per pair 33/-

Special Nipples and Washers for above Rims.

Nipples (No. 4.) Washers (No. 16.)

Supplied at no Extra Charge.



"CONSTRUCTOR" REINFORCED ROUND WOOD RIM

For tubular tyres.

(Foreign.)

Sizes: 26" and 27" x 1" and 1 1/2".

Drilled 32/40 holes.

No. 27/75a/1703 .. per pair 23/-

VINDEC ROAD RACING WHEELS

Built with Double Cog Hub (less cogs and nuts) and Front Racing Hub with Boa Sprint Wood Rims. (Foreign.)

Sizes 26" and 27" x 13 mm.

No. 27/100a/2110 .. per pair 32/9

Ditto, with First Choice Rims.

No. 27/100b/2705 .. per pair 41/4



ELECTRICALLY WELDED.

DUNLOP "ENDRICK" RIMS

Sizes 26" x 1 1/2" and 1 1/4", Drilled 32, 36 and 40 holes. For Caliper Brakes.

No. 27/67a/309	Black Enamelled	per pair	5/-
27/67b/400	Nickel Plated .. .. .	..	5/4
27/67bc/502	Chromium Plated .. .. .	..	7/-
27/67c/403	Nickel Plated, Black Centres .. .. .	..	5/8
27/67cc/505	Chromium Plated, Black Centres .. .. .	..	7/3
27/67d/410	Enamelled Imitation Wood Colour .. .. .	..	6/6

23 Gauge at above prices.

27/4 Tandem Gauge extra per pair -15

Special Lightweight Steel Rims for Dunlop Road Racing High Pressure Tyres.

Sizes: 26" and 27" x 1 1/2". Drilled 32/40 holes.

No. 27/68a/611	Chromium Plated, Black Centred	per pair	9/8
27/68b/701	Chromium Plated, Centred and Lined Red .. .. .	..	9/6
27/68c/608	Chromium Plated .. .. .	..	9/-

DUNLOP CARRIER RIMS BLACK ENAMELLED

No. 27/69a/102	14" x 2" x 1 1/2" x 32 holes W.E. each	1/7
27/69b/106	18" x 2" x 1 1/2" (for 20" x 2" tyre) 32 Holes. W.E.	2/-
27/69c/404	26" x 1 1/2" 18G. 32 x 40 holes. W.E.	per pair 5/9

27/77a/511 26" or 28" x 1 1/2", 16G. B.E. 32/40 holes (for 12G Nipples) 8/-

Special Lightweight Steel and 16G. B.E. Carrier Rims, depressed and pierced.

DUNLOP STAINLESS STEEL RIMS

To special order only.

W.O. Section 26" x 1 1/2", 1 1/4", 28" x 1 1/2" and 1 1/4".

No. 27/76a/1603	Drilled 32/40 holes	per pair	21/-
No. 27/76e/1800	"Endrick" Rims. 26" x 1 1/2" and 1 1/4". Drilled 32/40 holes	per pair	24/-

"CONSTRUCTOR"

NEW WESTEEL W.O. RIMS N.S.

Weight each, 1 lb. 9 oz.

Size: 26" x 1 1/2" only. Drilled 32/40 holes.

No. 27/70c/307	Black Enamelled	per pair	4/-
27/70d/501	Chromium Plated .. .. .	..	4/-
27/100	Nipples (No. 6)	per gross	1/-
27/2	Washers (No. 14) .. .. .	..	..



"CONSTRUCTOR" FLAT WOOD RIM. (Foreign.)

For tubular tyres.

Sizes: 26" and 27" x 13 and 14 mm. 60G.

Drilled 32/40 holes.

No. 27/74a/1703 .. per pair 23/-

"CONSTRUCTOR" BOA FLAT RIM. (Foreign.)

For tubular tyres.

Sizes 26" and 27" x 13 mm.

Drilled 32/40 holes.

No. 27/74b/1200 .. per pair 18/-

Branches
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DUNLOP CYCLE TYRES—continued

DUNLOP TUBULAR SPRINT TYRES

Supplied in 26" and 27".



DUNLOP TUBULAR SPRINT (No. 3)



DUNLOP TUBULAR SPRINT (No. 4)

No. 38/126/1609	No. 0. Plain, for very fast short distances on fine surfaces	each 21/-
No. 38/127/1103	No. 1. Plain, for high grade cement and board tracks .. .. .	.. 15/-
No. 38/129/1103	No. 2. Plain, for medium grade cement or cinder tracks and light road racing .. .. .	.. 15/-
No. 38/131/1103	No. 3. Smooth file, for road racing, etc. .. .. .	.. 15/-
No. 38/133/1103	No. 4. Smooth file, for road racing, also for track tandems	each 15/-
No. 38/135/1103	No. 5. Plain tread, file sides, for road racing, also for track tandems .. .. .	.. 15/-
No. 38/137/1103	No. 6. Rough file, for road racing or grass tracks .. .. .	.. 15/-
No. 38/139/1103	No. 7. Rough file, for road racing tandems .. .. .	.. 15/-
No. 38/140/1103	No. 8. Rough file, for grass tracks	each 15/-
No. 38/142/903	No. 9. Rough file, for training and road work .. .. .	.. 12/6
No. 28/143/709	No. 10. Rough file, for training and rough work .. .. .	.. 10/6

The above Prices are for Cotton Tyres.

No. 38/—/1209 Extra for Silk Nos. 1 to 8 (to order only) 15/-

B.B.L. COVERS

THREE ATTRACTIVE LINES

THE HALYCON COVER

For Carrier Cycles.

Thick Black Rubber. Buttressed tread with strong casing. Calculated for strength and endurance. British manufacture.

No. 38/141/309	Covers, Wired only	each 8/-
38/141/308	.. .. . lots of 6 .. .. .	.. .. .
38/141/307	.. .. . .. .. .	.. 12

Size 26" x 1 1/4". Wired only.



THE GRIPSO COVER (British)

A neat, reliable, Studded Cover at a competitive price.

No. 38/161/110	Covers, Wired only	each 2/-
38/161/109]	.. .. . lots of 10 .. .. .	.. .. .
38/161/109	.. .. . .. .. .	.. 25
38/161/108]	.. .. . .. .. .	.. 30

Sizes: 26" x 1 1/4" (Red or Black), 26" x 1 1/4", 26" x 1 1/4", 28" x 1 1/4"



BRITISH MAKE COVERS

A competitive No-name Line.

No. 38/165/110	Covers, Wired only	each 2/-
38/165/109] lots of 10
38/165/109 25
38/165/108] 30

Sizes: 26" x 1 1/4", 26" x 1 1/4", 26" x 1 1/4", 28" x 1 1/4"



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CYCLE TYRES—continued

CONSTRUCTOR

(TUBULAR)

No. 38/269/1307	No. 1. Path. Thread ..	each	17/6
	Sizes stocked: 26" x 1", 27" x 1", 27" x 1½"		
No. 38/271/1307	Grass. Thread ..	..	17/6
	Sizes stocked: 26" x 1½", 27" x 1½"		
No. 38/273/1404	Adder. Thread ..	..	18/6
	Sizes stocked: 26" x 1½", 27" x 1½"		
No. 38/275/1307	Asp Light Road. Thread ..	..	17/6
	Sizes stocked: 26" x 1", 27" x 1"		
No. 38/276/1307	The Fifty. Thread ..	..	17/6
	Sizes stocked: 26", 27"		
Extras—			
	-311	Any of above in Silk ..	5/-
	-10	.. .. with Skin Sides ..	1/-
No. 38/277/1108	Python Road (Skin sides) ..	..	15/-
	Sizes stocked: 26" x 1½", 27" x 1½"		
No. 38/278/1108	New Boa ..	..	15/-
	Sizes stocked: 26", 27"		
No. 38/281/1108	Zone Light Path. Cotton ..	..	15/-
38/285/1108	.. Heavy Road ..	..	15/-
	Sizes stocked: 26", 27"		

FOR CONSTRUCTOR TUBULAR CEMENT
see page 401.

FOR CONSTRUCTOR Q.V. TYRE FILLING,
PLUGIT, VIPER DOPE LATEX AND
CONOTTING see page 405.

(COVERS AND TUBES)

No. 38/293/503	Concord Speed Cover ..	..	each	7/6
# 38/293/109	.. .. Tube (1st quality) ..	..	..	2/6
	Size: 26" x 1½"			
No. 38/294/505	Concord Fully Rubbered Cover ..	..	7/9	
38/294/109	.. .. Tube (1st quality) ..	..	2/6	
	Sizes stocked: 26" x 1½", 26" x 1½"			
No. 38/295/406	Python R.R. Cover ..	..	6/6	
38/295/101	.. .. Tube ..	..	1/6	
	Sizes stocked: 26" x 1½", 26" x 1½"			
No. 38/299/603	Adder Road Racing Cover ..	..	9/-	
38/299/107	.. .. Tube ..	..	2/3	
	Sizes stocked: 26" x 1½", 26" x 1½"			
No. 38/301/704	The Viper Cover ..	..	10/6	
38/301/109	Viper Tube (with spring valve) ..	..	2/6	
	Sizes stocked: 26" x 1½", 26" x 1½"			
No. 38/302/708	The Asp Cover ..	..	11/-	
38/302/109	Asp Tube (with spring valve) ..	..	2/6	
	Sizes stocked: 26" and 27" x 1½" and 1½"			
For 27" Conloy Asp Rim see Rim Section.				
No. 38/307/901	De Luxe Cover ..	..	13/-	
38/307/107	.. .. Tube ..	..	2/3	
	Sizes stocked: 26" x 1½", 26" x 1½"			

All the above W.O. Covers with the exception of Concord can be supplied in 27" to order only. Customers must definitely state if these are required for H.P. or Continental rims.

Other sizes and types in Constructor Tyres, as per Manufacturer's List, supplied to order.

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