



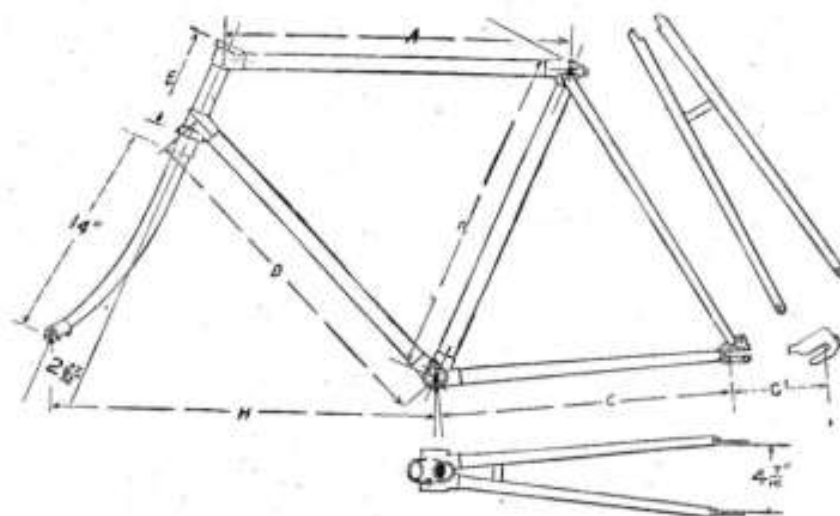
Chater-Lea was a British bicycle, car and motorcycle maker with a purpose-built five-storey factory in Banner Street, EC1, in the City of [London](#) (now converted into flats) and, from 1928, premises at [Letchworth](#), Hertfordshire. It was founded by William Chater-Lea in 1890 to make bicycle frames and components. It made cars between 1907 and 1922 and motorcycles from 1903 to 1935. William died in 1927 and the business was taken over by his sons John and Bernard. After vehicle production finished, the company remained trading as a bicycle component maker and contract manufacturer until 1987.^[1] The company relaunched in 2017 as a maker of high-end British manufactured bicycle components and launched its first new products in the summer of 2019.

Current website: <https://www.chaterlea.com/>

(source: <https://en.wikipedia.org/wiki/Chater-Lea>)

They were famous for their tandem and carrier fittings. From 1931 catalogue:

CHATER-LEA CYCLE FITTINGS



No. 2a Gent's Frame—Small Tube Set

Wheel Base, 43". Bracket Height, 11" with 26" Wheels.

- 176 Top Head Lug: 68° for $\frac{1}{4}$ " Ball Race.
- 1015 Bottom Head Lug: 66° for $\frac{1}{4}$ " Ball Race.
- 917 Bottom Bracket Shell.
- 714 Seat Lug: 68°.
- 1074 Chain Strut.

TUBE LENGTHS. Allowing for full mitre, and suitable for building a 22" Frame.

	Name.	Frame Dimension.	Length of Tube.	Diameter and Gauges of Tubes.
A	Top Tube (double butted)	22 $\frac{7}{8}$ "	21 $\frac{7}{8}$ "	$\frac{3}{4}$ " x 18—20
B	Seat Tube (single butted)	22"	21 $\frac{7}{8}$ "	1" x 19—22
C	Chain Strut with rear opening Fork End	18 $\frac{1}{2}$ "	17 $\frac{1}{2}$ "	$\frac{3}{4}$ " diameter round to oval.
C1	Ditto with forward opening Fork End	19 $\frac{1}{8}$ "	16 $\frac{1}{2}$ "	$\frac{3}{4}$ " diameter round to oval.
D	Down Tube (double butted)	22 $\frac{1}{2}$ "	21 $\frac{1}{2}$ "	1" x 18—20
E	Head Outside Tube	6 $\frac{1}{8}$ "	6 $\frac{1}{8}$ "	1 $\frac{1}{4}$ " x 22
—	Distance between Front Wheel and Bracket	24 $\frac{1}{4}$ "	—	—
—	Seat Stays	—	19 $\frac{1}{8}$ "	Tapered.
—	Distance between Front Fork Ends	3 $\frac{7}{8}$ "	—	—

When building a Frame with a Seat Tube of different length, Dimension E requires altering by a similar amount

FULL SIZE WORKING PRINTS will be sent upon application.

CHATER-LEA MFG. CO., LTD. (Estd. 1890), New Icknield Way, Letchworth, Herts, England.

CHATER-LEA CYCLE FITTINGS *(continued)*

The No. 5 Frame can also be built to take $\frac{1}{8}$ " Head Races.

The following parts should then be substituted:—

1413 — — — Top Head Lug: 68° for $\frac{1}{8}$ " Ball Race.

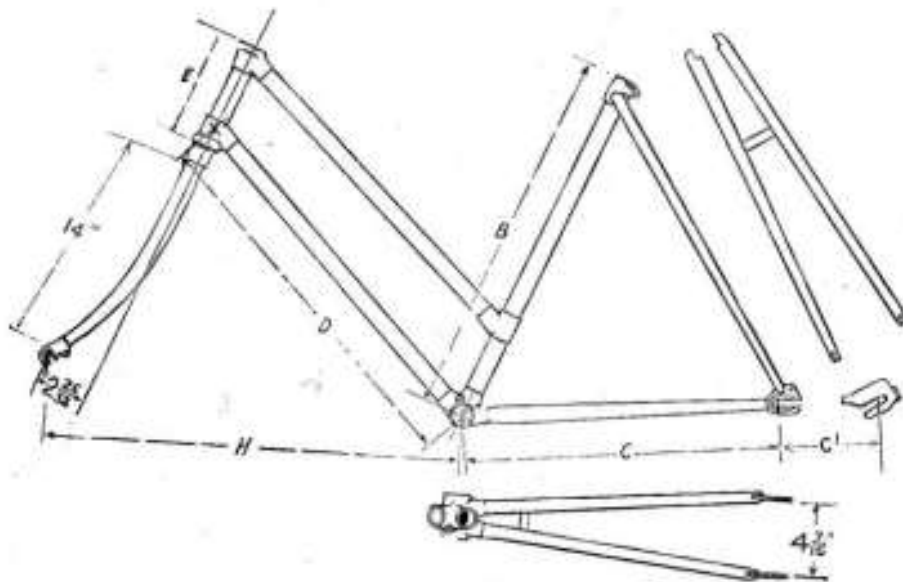
1414 — — — Bottom Head Lug: 66° for $\frac{1}{8}$ " Ball Race.

The Head Outside Tube will be $1\frac{1}{4}$ ", 22 gauge.

The Wheel Base can be reduced to $42\frac{1}{2}$ " by substituting:—

1074-2 — — — Chain Struts.

and by a further $1\frac{1}{2}$ " to $41\frac{1}{2}$ " by using a semi-straight fork, details of which will be found on page 5.



No. 4LA Lady's Frame—Small Tube Set

Wheel Base: $42\frac{1}{2}$ ". Bracket Height, $10\frac{1}{2}$ " with 26" Wheels.

919-1 — — — Top Head Lug: 68 $\frac{1}{2}$ " for $\frac{1}{4}$ " Ball Race.

1015 — — — Bottom Head Lug: 66° for $\frac{1}{4}$ " Ball Race.

917 — — — Bottom Bracket Shell.

682-3 — — — Seat Lug.

918-1 — — — Frame Lug: 68 $\frac{1}{2}$ "

1074-2 — — — Chain Strut.

FULL SIZE WORKING PRINTS will be sent upon application

CHATER-LEA CYCLE FITTINGS (continued)



Illustration of Head Clip Model with plain lugs.

Head Lugs

When ordering, state if cut-away or plain lugs are required.

GENT'S TOP.

1413	---	---	---	---	1 1/4" x 1" x 68° for 3/8" Ball Race.
1010	---	---	---	---	1 1/4" x 1" x 68° for 1/2" Ball Race.
176	---	---	---	---	1 1/4" x 1" x 68° for 1/2" Ball Race.

LADY'S TOP.

919-2	---	---	---	---	1 1/4" x 1" x 68 1/2° for 1/2" Ball Race.
919-1	---	---	---	---	1 1/4" x 1" x 68 1/2° for 1/2" Ball Race.

BOTTOM.

1414	---	---	---	---	1 1/4" x 1 1/4" x 66° for 3/8" Ball Race.
1009	---	---	---	---	1 1/4" x 1 1/4" x 66° for 1/2" Ball Race.
1009-2	---	---	---	---	1 1/4" x 1 1/4" x 64 1/2° for 1/2" Ball Race.
1015	---	---	---	---	1 1/4" x 1" x 66° for 1/2" Ball Race.



Illustration of Colonial Head with cut-away lugs.

Fork Crowns

(for 1" stem)

1435	---	---	(No. 1) Oval Forks,	1 1/2" Tyres.
1435-1	---	---	(No. 8) Oval Forks,	1 1/2" "
1436	---	---	(No. 11) Dee Forks,	1 1/2" "
1436-1	---	---	(No. 9) Dee Forks,	1 1/2" "
685	---	---	(No. 6) 3/4" Round Forks,	1 1/2" "
685-2	---	---	(No. 7) 1" Round Forks,	1 1/2" "

Head Stems

(Butted).

1412	---	---	1", slotted for Head Clip.	6 1/2", 7 1/2", 7 3/4", 8 1/2", 8 3/4", 9 1/2", 10 1/2", 10 3/4", 11 1/2", 12 1/2", 13 1/2", 14 1/2" long.
1412-1	---	---	1", slotted for Expander.	6 1/2", 6 3/4", 7 1/2", 7 3/4", 8 1/2", 8 3/4", 9 1/2", 9 3/4", 10 1/2", 10 3/4", 11 1/2", 11 3/4" long.

Fork Blades

694-3	---	---	Dee to Round (standard).
694-4	---	---	Oval to Round (standard).
694-5	---	---	Dee to Round (special for semi-straight fork, giving 1 1/4" less trail).

Liners

(Flat).

1449	---	---	For Dee and Oval Blades.
1449-1	---	---	For 1" Round Blades.

Complete Forks

We supply Forks either enamelled or only filed and polished.
For further particulars see price list.

Head Clips

(For 1" Stem). Registered Design No. 738304).

1080-2	---	---	---	For 1/2" Ball Race No. 1257.
1080-3	---	---	---	For 3/8" Ball Race No. 125.

(Bolt No. 164: 126 Nut No. 29: 134).

Colonial Screwed Top Races

(For 1" Stem).

1409	---	---	---	For 1/2" Balls.
1409-1	---	---	---	For 3/8" Balls.

Head Lug Ball Races

1382	---	---	---	For 1/2" Balls.
125	---	---	---	For 3/8" Balls.

Crown Cones

(For 1" Stem).

366	---	---	---	For 1/2" Balls.
438	---	---	---	For 3/8" Balls.

Head Lock Nut

443	---	---	---	For 1" Stem.
-----	-----	-----	-----	--------------

Lamp Brackets

(As illustrated above, for 1" Stem).

1410	---	---	---	For Head Clip Model.
1410-1	---	---	---	For Colonial Head.

(See also pages 8 and 13).

CHATER-LEA MFG. CO., LTD. (Estd. 1890), New Icknield Way, Letchworth, Herts., England

CHATER-LEA CYCLE AND TANDEM FITTINGS

Rear Fork Ends

(And Adjusters).



- 684-2 ... (No. 4A) rear opening Fork End, suitable for solid or hollow spindle rear hubs.
 594 ... Adjuster for solid spindle hubs.
 594-1 ... Adjuster for hollow spindle single cog hub.
 8: 134 ... Nut for adjuster 594 and 594-1.
 726 ... Adjuster for hollow spindle double cog hub.
 17: 134 ... Nut for adjuster 726.
 595 ... Adjuster plate.



Forward opening Fork Ends, giving quick release for solid spindle hubs. Used with special loose collar nuts listed on this page.

- 939-2 ... (No. 5A) Plain.
 939-3 ... (No. 6) Serrated (as illustrated).



- 939 ... (No. 5) forward opening Fork End, gives quick release for solid spindle hubs and has an abutment for an adjuster. With a double cog hub, the loose collar used allows correct chain tension to be obtained without readjustment.
 969 ... Adjuster (Nuts: large, 8: 134; small, 9: 134).
 968 ... Collar for 3-teeth variation.
 968-1 ... Collar for 2-teeth variation.

Strut Tang and Stay End

(Illustrated above with fork ends).

- 940 ... Tang for Chain Strut ($\frac{1}{2}$ " diameter fitting).
 709-1 ... Stay End (for $\frac{1}{8}$ " to $\frac{1}{4}$ " tapered stay).

Front Fork Ends



Recessed.



Plain.



No. 799-4.

- 799 ... For $\frac{1}{8}$ " spindle: recessed.
 799-1 ... For $\frac{1}{8}$ " spindle: recessed.
 799-2 ... For $\frac{1}{8}$ " spindle: plain.
 799-3 ... For $\frac{1}{8}$ " spindle: plain.
 799-4 ... $\frac{1}{4}$ " diameter hole, $\frac{1}{8}$ " slot.

FOR HOLLOW SPINDLE FRONT HUBS.

(Illustrated with hubs on page 19).

- 190-2 ... Left (tapped $\frac{1}{8}$ ", 26 threads).
 189-2 ... Right ($\frac{1}{8}$ " clearance).

Wing and Track Nuts



- 34: 134
 43: 134
 1454
 1455
 1456

STEEL WING NUTS.

- 34: 134 ... $\frac{1}{8}$ ", suits recessed fork end 799.
 43: 134 ... $\frac{1}{8}$ ", suits recessed fork end 799-1 and rear fork ends when an adjuster is used.

DURALUMIN WING NUTS.

- 1454 ... $\frac{1}{8}$ ", suits recessed fork end 799.
 1455 ... $\frac{1}{8}$ ", suits plain fork end 799-3 and rear fork ends with no adjuster.

TRACK NUT.

- 1456 ... For $\frac{1}{8}$ " spindle.

CHATER-LEA MFG. CO., LTD. (Estd. 1890), New Icknield Way, Letchworth, Herts, England.

Handlebar Stems



1457 to 1457-2.



1457-3 to 1457-5.



1458 to 1458-2.



1458-3 to 1458-5.

- 1457 --- (No. 16), $\frac{1}{2}$ " stem, for $\frac{1}{2}$ " handlebar and head clip. As illustrated.
 1457-1 --- As above, but for expander.
 1457-2 --- 1" stem, for $\frac{1}{2}$ " handlebar and head clip. As illustrated.
 1457-3 --- (No. 18), $\frac{3}{8}$ " stem, for $\frac{3}{8}$ " handlebar and head clip. As illustrated.
 1457-4 --- As above, but for expander.
 1457-5 --- 1" stem, for $\frac{3}{8}$ " handlebar and head clip. As illustrated.

- 1458 --- (No. 17), $\frac{1}{2}$ " stem, for $\frac{1}{2}$ " handlebar and head clip. As illustrated.
 1458-1 --- As above, but for expander.
 1458-2 --- (No. 17A), 1" stem, for $\frac{1}{2}$ " handlebar and head clip. As illustrated.
 1458-3 --- (No. 19), $\frac{3}{8}$ " stem, for $\frac{3}{8}$ " handlebar and head clip.
 1458-4 --- As above, but for expander. As illustrated.
 1458-5 --- 1" stem, for $\frac{3}{8}$ " handlebar and head clip.

Stem Lugs



1459.



1459-1.



1459-2.

- 1459 --- (No. 21), $1" \times \frac{1}{2}"$, as used on stems 1457 to 1457-2.
 1459-1 --- (No. 22), $\frac{3}{8}" \times \frac{1}{2}"$, as used on stems 1457-3 to 1457-5.
 1459-2 --- $\frac{3}{8}" \times \frac{1}{2}"$.

When used for a 1" stem, both lug and stem are brazed on a short liner $\frac{1}{2}$ " diameter.

Forward Handlebar Clip Lugs

(As used on models illustrated above).

- FLAT. (Clip Bolt No. 163: 126; Nut No. 29: 134).
 756 --- (No. 29), $\frac{1}{2}$ " stem, for $\frac{1}{2}$ " handlebar.
 756-4 --- (No. 29A), 1" stem, for $\frac{1}{2}$ " handlebar.
 INCLINED. (Clip Bolt No. 165: 126; Nut No. 29: 134).
 756-5 --- $\frac{1}{2}$ " stem, for $\frac{1}{2}$ " handlebar and head clip.
 756-3 --- (No. 32), as above, but for expander.

When either 756-5 or 756-3 is used for a 1" stem, both lug and stem are brazed on a short liner $\frac{1}{2}$ " diameter.

Clip Tee

- 756-2 (No. 30), for $\frac{1}{2}$ " handlebar (Clip Bolt No. 163: 126; Nut No. 29: 134).



Handlebar Liner

- 1460 --- As used with all stems illustrated above and also with Tandem Back Handlebar clip lugs listed on page 9.

Expander

- 960 --- For $\frac{1}{2}$ " handlebar stems.
 (Bolt No. 17J: 126 for expander is full length and suitable for any length stem).

Lamp Bracket



1461.

Suitable for all stems incorporating clip tee No. 756-2 or forward handlebar clip lugs Nos. 756 or 756-4 shown on this page.

For other lamp brackets, see pages 5 for cycle and 13 for tandem.

For Prices see separate Price List, which is arranged in the same sequence as this Catalogue.

CHATER-LEA CYCLE AND TANDEM FITTINGS

(continued)

Tandem Back Handlebar Clips



1041.



1041-1.

- 1041 (No. 22D), $\frac{1}{4}$ " for T pattern seat pillar and $\frac{1}{4}$ " handlebar.
 1041-1 (No. 22A), $1\frac{1}{8}$ " for straight or L pattern seat pillar and $\frac{1}{4}$ " handlebar.

(Clip Bolts No. 163: 126; nuts 29: 134).

Pump Hooks



615-4.



615-3.



615-5.

- 615-4 Curved to shape of tube.
 615-3 (Registered design).
 615-5 Extra large.

Chain Hook



1013.

Mudguard Eye



Seat Pillars



1014
1014-1



1014-2
1014-3



1014-4

- 1014 $1\frac{1}{8}$ " to $1\frac{1}{4}$ " fits $1\frac{1}{2}$ " x 22 G. seat tube.
 1014-1 $1\frac{1}{8}$ " to $1\frac{1}{4}$ " fits 1" x 22 G. seat tube.
 1014-2 $1\frac{1}{8}$ " x $1\frac{1}{4}$ " fits $1\frac{1}{2}$ " x 22 G. seat tube.
 1014-3 $1\frac{1}{8}$ " x $1\frac{1}{4}$ " fits 1" x 22 G. seat tube.
 1014-4 $1\frac{1}{8}$ " x $1\frac{1}{4}$ " fits $1\frac{1}{2}$ " x 22 G. seat tube.

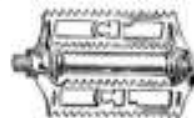
L Pin Lugs



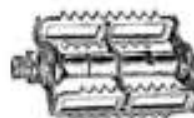
- 1462 For $\frac{3}{8}$ " seat pillar, fits 1" x 22 G. seat tube.
 1462-1 For 1" seat pillar, fits $1\frac{1}{4}$ " x 17 G. seat tube.
 1462-2 For $1\frac{1}{8}$ " seat pillar, fits $1\frac{1}{4}$ " x 22 G. seat tube.

CHATER-LEA PEDALS

Pedals are typical of all Chater-Lea workmanship in their excellent design and finish. All turned solid bearings are used, not pressed up cups as fitted to the cheaper class of pedal.



Chater-Lea Race Rat Trap Pedal will take any width shoe.



Chater-Lea Roadster Rat Trap Pedal. Standard width, $3\frac{1}{2}$ "; and extra wide, 4".



Chater-Lea Divided Pattern Rubber Pedals, with soft quality rubbers. Neat and distinctive.

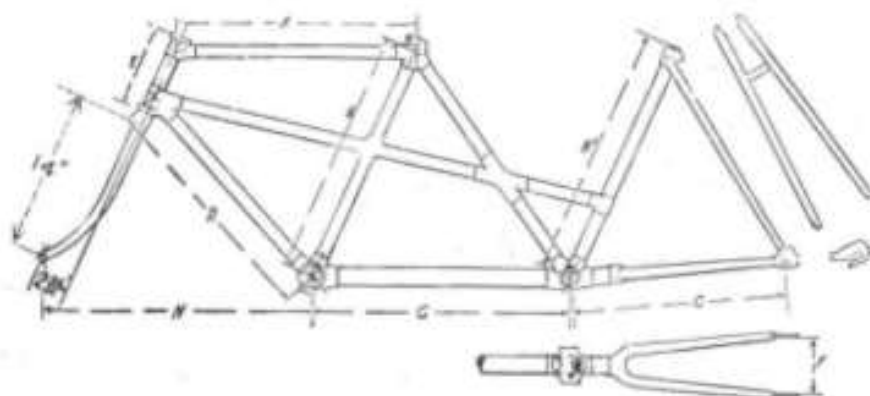


Chater-Lea Rubber Pedals with soft quality rubbers. Standard width rubbers, $3\frac{1}{2}$ "; and extra wide rubbers, 4".

Full particulars of spare parts for Chater-Lea Pedals are given in the price list.

CHATER-LEA MFG. CO., LTD. (Estd. 1890), New Icknield Way, Letchworth, Herts, England.

CHATER-LEA TANDEM FITTINGS



No. 15A Lady-Back Tandem

Wheel Base, 64". Bracket Height 11" with 26" Wheels.

Seat Tube, 21", 22" or 23".

Chain Line, 11".

1430	---	---	Top Head Lug.	1433	---	Front Cross Lug.
1075	---	---	Bottom Head Lug.	1388	---	Rear Cross Lug for 23" Frame.
1432	---	---	Front Seat Lug.	1388-1	---	" " " 22" "
682-2	---	---	Rear Seat Lug.	1388-2	---	" " " 21" "
929	---	---	Front Eccentric Shell.	1434-14	---	Frame Lug.
1239-2	---	---	Rear Bracket Shell.	967	---	Strut Bridge.

When ordering Fittings specify seat tube length required. It will be noticed that the rear cross lug is supplied with a choice of angles (see also page 13). The Front Seat lug and Bracket Shell have short fittings and are made the correct angle for a 22" Frame, there is no difficulty therefore in obtaining the necessary difference of 2" either way when building a 21" or 23" Frame.

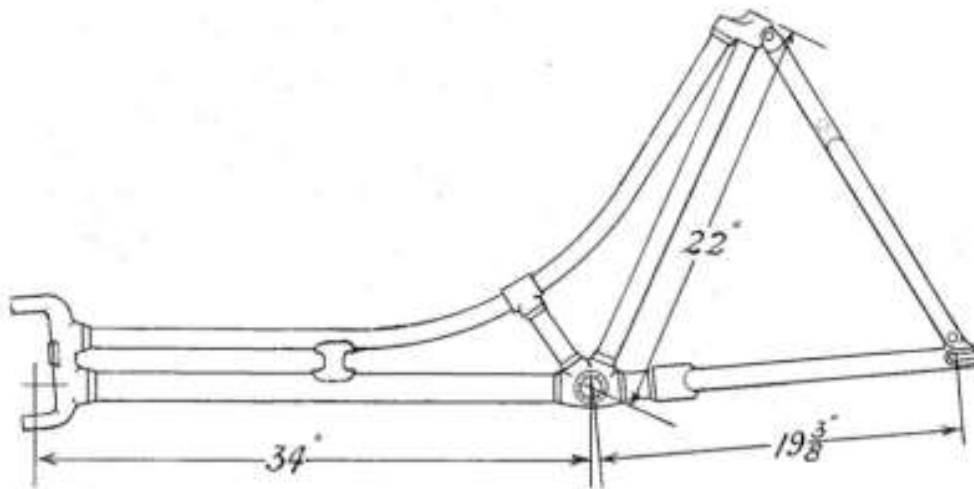
TUBE LENGTHS. Allowing for a full mitre, and suitable for building a 22" Frame.

	Name.	Frame Dimension.	Length of Tube.	Diameter of Tube.	Gauge of Tube.
A	Top Tube	21"	20½"	1½"	22
B	Front Seat Tube (single butt)	21½"	21"	1½"	19-22
B1	Rear Seat Tube	---	21"	1½"	17
	Short Tube	---	4"	1½"	16
C	Chain Strut with rear opening Fork Ends	18½"	12½"	1½" to 1"	---
C1	Ditto forward opening Fork Ends	19½"	12½"	1½" to 1"	---
D	Down Tube	21"	19½"	1½"	20
E	Head Outside Tube	7½"	6½"	1½"	20
F	Distance between Forks	5½"	---	---	---
G	Bottom Tube	22½"	21½"	1½"	20
H	Distance between Front Wheel and Bracket	23½"	---	---	---
	Seat Slays	---	---	Tapered	---
	Front Cross Tube	19½"	18½"	1½"	22
	Rear Cross Tube	21"	20½"	1½"	22
	Tube from Seat Lug to Cross Tube	13½"	13½"	1½"	22
	Ditto Cross Tube to Bracket	10½"	9½"	1½"	22
	Distance between Front Fork Ends	3½"	---	---	---

FULL SIZE WORKING PRINTS will be sent on application.

For Prices see separate Price List, which is arranged in the same sequence as this Catalogue.

CHATER-LEA CARRIER TRICYCLE FITTINGS



Standard Model

(Frame No. 1306).

1355	...	Head Outside Lug.	1417	...	Strut Bridge.
1239-2	...	Bracket Shell.	1434-16	...	1 1/4" T Lug.
1418	...	Seat Lug.	279 and 280	...	Fork Ends (R. and L.).
1407	...	Lap Lug (optional).	329 and 330	...	Stay Ends (R. and L.).
		1416	...		Pressing for Stay Bridge (2), optional.

Tube Lengths

Ball Head to Bracket	...	...	...	...	...	...	...	...	1 1/2" diameter x 31 1/2" x 16 Gauge.
Curved Tube	...	...	...	...	...	...	...	...	1 1/2" diameter x 48" x 14 Gauge.
Seat Tube	...	...	...	...	...	...	...	...	1 1/2" diameter x 21 1/2" x 17 Gauge.
Bracket to Curved Tube	...	...	...	...	...	...	...	...	1 1/2" diameter x 6" x 18 Gauge.
Extension to Bridge	...	...	...	...	...	...	...	...	1 1/2" diameter x 4 1/2" x 16 Gauge.
Chain Struts	...	...	...	...	...	...	...	...	1" D x 13" x 16 Gauge.
Seat Stays (1415)	...	...	...	...	...	...	...	...	1" D x 18 1/2" x 16 Gauge.
Bridge for Seat Stays	...	...	...	...	...	...	...	...	1 1/2" diameter x 3" x 16 Gauge.

FULL SIZE WORKING PRINTS will be sent upon application.

Front Axles for Standard Model



1421 — Axles 32", 33", 34", 36" in stock. Other lengths can be supplied if required.

For Side Hub parts see page 17.

CHATER-LEA MFG. CO., LTD. (Estd. 1890), New Icknield Way, Letchworth, Herts, England.