MODEL K.C.

E:\Hubs\Model-KC.Sam

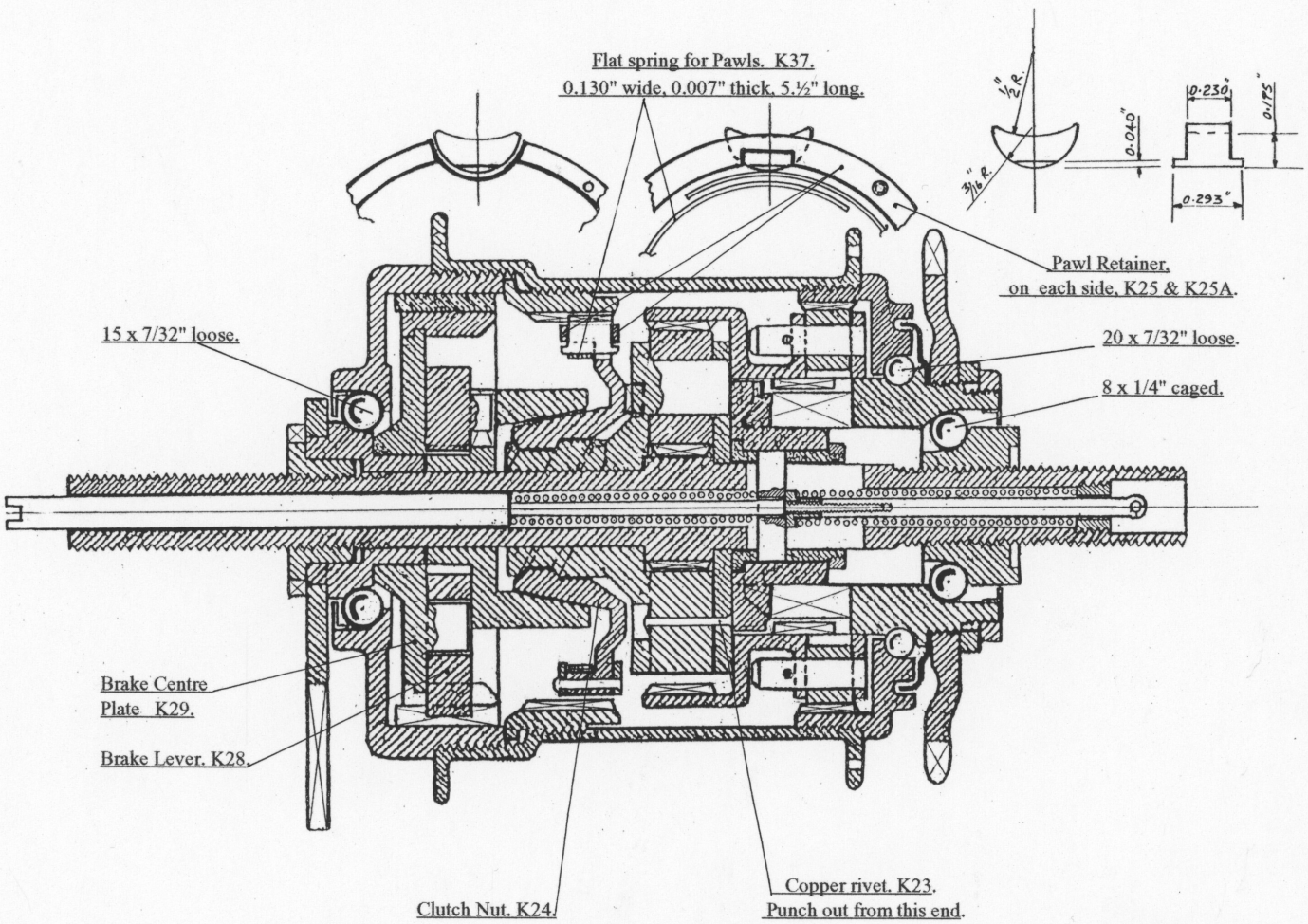
Introduced in 1922. Ratios were the same as the K hubs but a coaster brake was fitted.

The right hand end of the drive including the Gear Ring followed the standard K hubs, q.v.
The Planet Cage however was in two pieces riveted together. A worm-drive on this Planet Cage carried a Clutch Nut having three spring loaded Pawls driving the Shell via a twenty tooth Ratchet. Note that only one Pawl drives at any one time. This arrangement was to ensure that when the cycle was wheeled backwards one of these pawls "took up" and rotated the Clutch Nut before the high or mid gear pawls could rotate the Planet Cage and apply the brake. See fuller description under the FN hub.
When pedalling backwards the worm-drive moved the Clutch Nut axially into contact with the Brake Cone which in turn forced the Brake Lever to pivot on its fulcrum and expand the Brake Band applying the brake.

Maximum braking power was applied only when the hub was in Normal or Low gear. When in high gear the power to the brake was reduced by 25%.

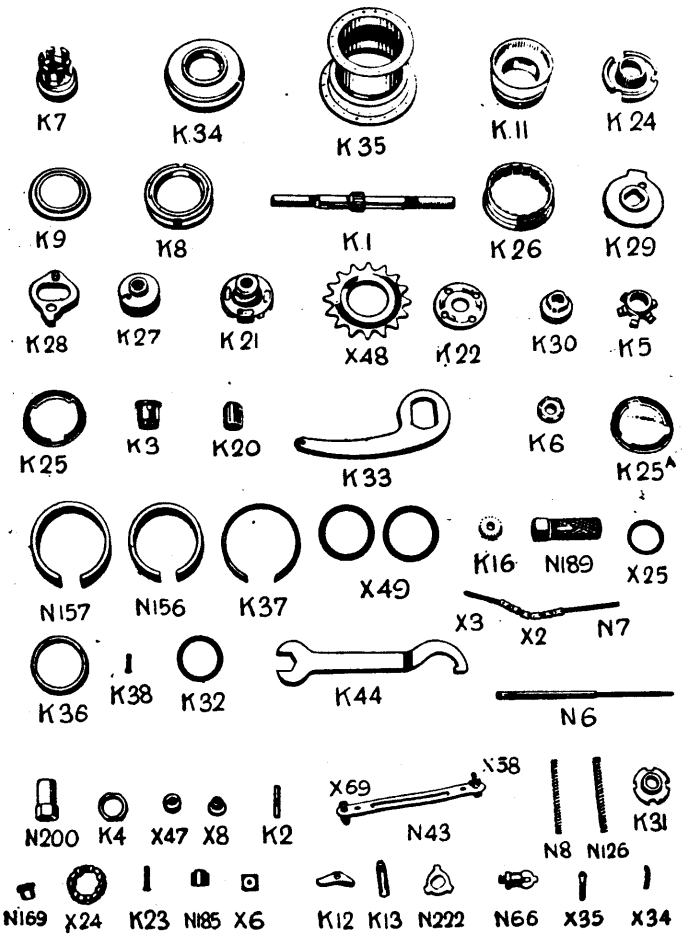
Variations took place in 1933 in the K range of hubs and these modifications were included in the KC range. Included in the modifications to the K range was the fitting of a new Driver K61.
However I have not been able to trace a K61 Driver with the left hand thread on the outer end to take the Lockring which would be required for the KC. I can only think that the twelve splined Driver K225 which was introduced in 1933 for the KS and KSW hubs could have been used from that date for the KC.

At the brake end two types of fulcrum for the Brake Lever K28 were supplied.
On the earliest models K28 pivoted on a peg on the Brake Centre Plate K29 as shown in diagram.
Around 1932 this was changed and the Brake Lever K28A was then manufactured with a peg which pivoted in a hole in the Brake Centre Plate K29A.



J.G.1998.

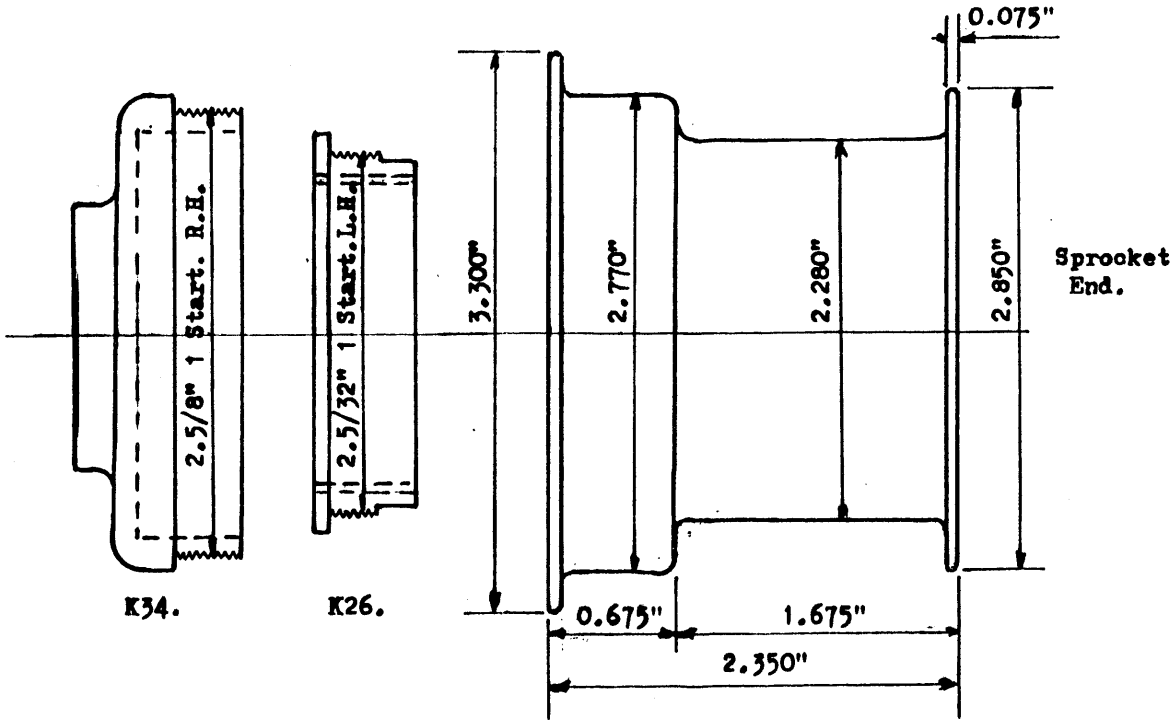
3-SPEED "TRICOASTER" HUB (MARK "K.C.") PARTS.



		s.	d.
X2	Chain	0	7
X3	Screwed Connection ...	0	3
X6	,, ,, Lock Nut	0	1
X8	Main Spring Collar ...	0	1
X24	1in. diam. Ball Retainer	0	4
X25	Ball Race Cap ...	0	1
X34	Pawl Spring per doz.	0	6
X35	Split Pin ... ,,	0	6
X47	Spring Nut	0	1
X48	Sprocket	2	0
X49	,, Washer ...	0	1
X58	Brake Arm Clip Nut ...	0	1
X69	,, ,, ,, Bolt ...	0	1
N6	Indicator Screw ...	0	7
N7	Coupling Spindle ...	0	7
N8	Axle Spring	0	3
N43	Clip for Brake Arm ...	0	4
N66	Lubricator	0	3
N126	Indicator Spring ...	0	3
N156	Steel Brake Band ...	1	3
N157	Bronze Brake Band ...	2	0
N169	Brass Rivet for Brake Ring ... per doz.	0	6
N185	L.H. Pawl	0	3
N189	Step	0	9
N190	L.H. Nut (Lady's) ...	0	8
N200	R.H. Nut	0	9
N222	Star Washer	0	2
K1	Axle	4	6
K2	"Key"	0	2
K3	,, Sleeve ...	0	8
K4	,, ,, Nut ...	0	3
K5	Sliding Clutch	2	0
K6	R.H. Cone	1	4
K7	Driver	5	0
K8	R.H. Ball Ring ...	4	6
K9	R.H. Dust Cap ...	0	3

		s.	d.
K11	Gear Ring	5	6
K12	,, ,, Pawl ...	0	5
K13	Pawl Pin	0	1
K16	Planet Pinion ...	0	9
K20	Chain Protector ...	0	3
K21	Planet Cage	4	0
K22	Cage End Plate ...	1	6
K23	,, Pinion Retainer Rivet per doz.	0	6
K24	Clutch Nut	4	0
K24	Clutch Nut fitted with 3 Pawls N185, 1 Spring K37, Left Hand Pawl Retainer Inner K25, Left Hand Pawl Retainer Outer K25A 3 Left Hand Pawl Retainer Rivets, K38 ...	5	3
K25	L.H. Pawl Retainer (Inner)	0	2
K25A	,, ,, ,, (Outer)	0	2
K26	,, Ratchet Ring ...	2	9
K27	Brake Cone	2	0
K28	,, Lever	1	0
K29	,, Centre Plate ...	1	6
K30	L.H. Cone	1	6
K31	,, Lock Nut	0	10
K32	,, Dust Cap	0	2
K33	Brake Arm	1	6
K34	,, Drum	3	6
K35	Hub Shell	5	0
K36	Sprocket Lock Nut ...	0	6
K37	L.H. Pawl Spring ...	0	2
K38	,, Pawl Retainer Rivet per doz.	0	6
K44	Spanner	1	0

K.C. Shell dimensions.



K.C.

1-3-77

from Shepherds

No. KC 26395.

6" AXLE 1 5/8" THREAD L.H.

Good condition

Michel. 40H. AXLE. 6" × 1 5/8" L.H. THREAD.

K.7C driver with 7/32" balls. ALSO 7/32" BALLS IN L.H. RACE.

COIL SPRINGS IN HIGH GEAR PAWLS. split pins in pins

K6 WITH .25 FOR R.H. CONE

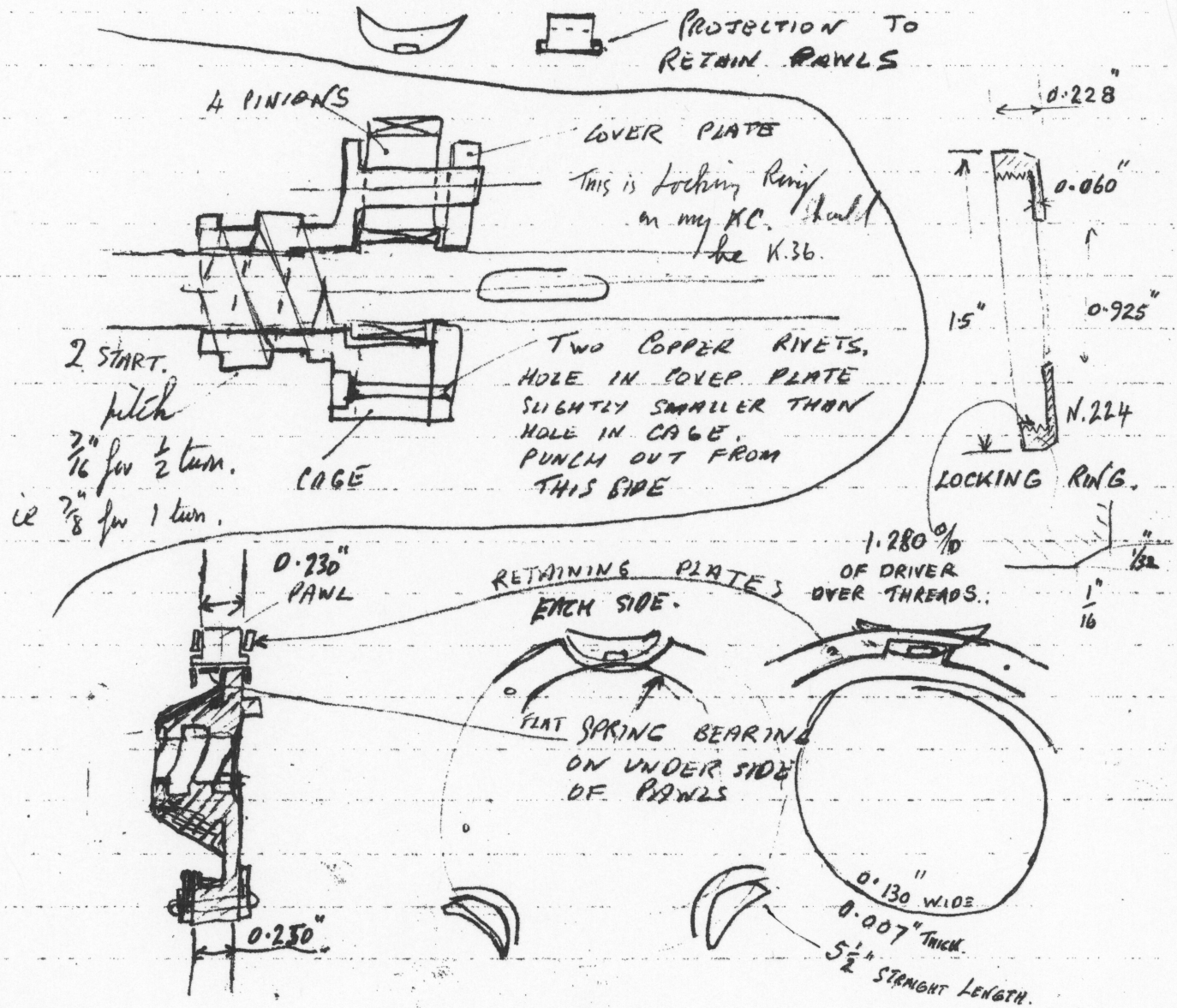
L.H. bearing. = 15 × 7/32" in grease.

LOW GEAR DRIVE UNUSUAL.

THERE ARE 20 TEETH ON THE RATCHET.

BUT THERE ARE THREE PAWLS.!

∴ ONLY ONE DRIVES.

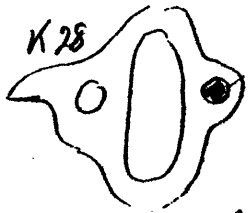


KC. COMPARISONS

No. KC. 26395. c1927

Pawls K12 with coil Springs K12

Pawl Pins. K13 with Split Pins x35



HOLE FOR PIVOT. PEG IS RIVETTED ON THE BRAKE CENTRE PLATE.

K7c DRIVER FOR 7/32 BALLS

WRENCH TO UNSCREW RATCHET RING

R.H. CONE K6 WITH x25 DUST CAP

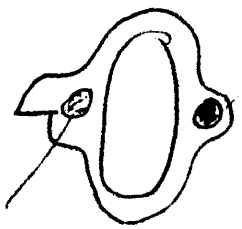
N 222 USED

K.1 AXLE WITH 1 5/8" THREAD.

KC 38163. c1932

Pawls K12A with R Springs K64

Pawl Pins K58 with Circlips K57



PEG ON OTHER SIDE TO FORM PIVOT WITH HOLE IN CENTRE PLATE. K29

DRIVER FOR 7/32 BALLS K7c

WRENCH TO UNSCREW RATCHET RING

R.H. CONE K6A WITH K59 DUST CAP

N. 222 USED.

K.101 AXLE WITH 2 1/8" THREAD. L.H. END.