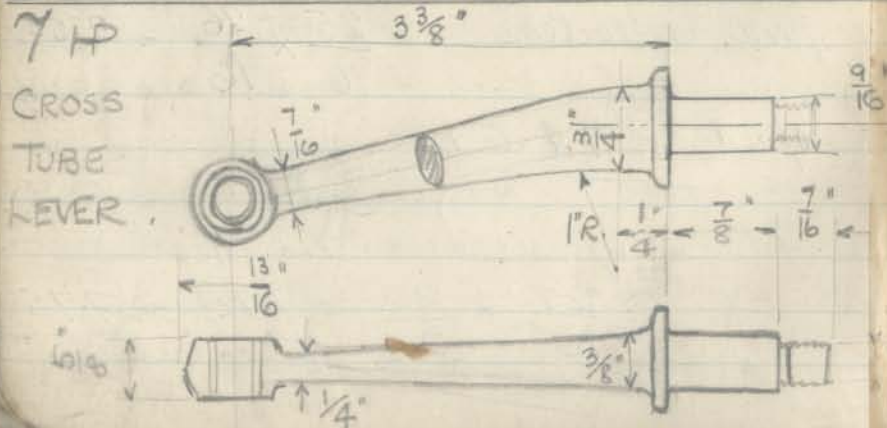


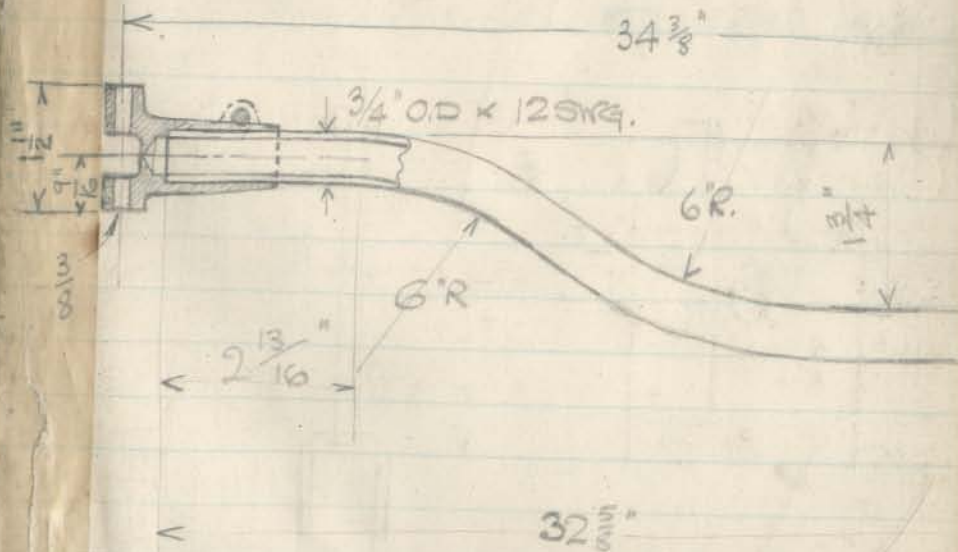
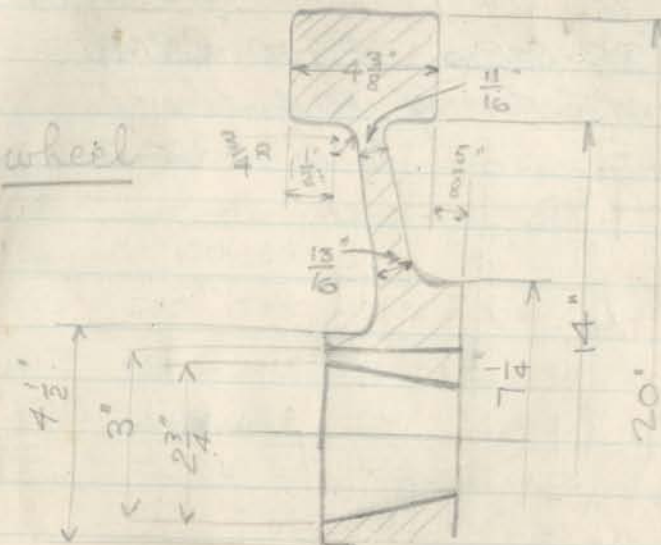
7HP Fan Spindle Floating clearance etc

.072	.052	2.303	2.365
.104	.084	2.383	2.385
1.947	1.927	.082" Slack to .018" Tight	
.260	.240		
2.383	2.303		



Engine 4 3/8 x 6 x 2

Lywheel



7HP STEERING CROSS TUBE.

$\frac{1}{4}$ HP. Racert.
 (Jan. 24) Power developed.
 = 29.5 HP @ 4,900 RPM.
 = M.E.P. of 104 lbs. per square in.
Compression ratio $6\frac{3}{4}$ to 1

Connaught Engine etc.

43

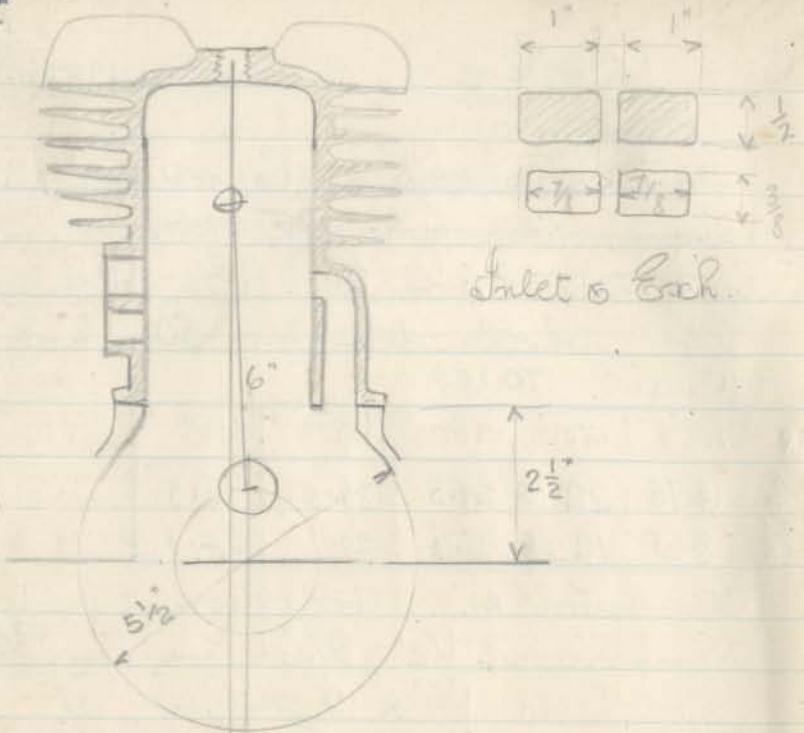
1921

Bore 73 Stroke 70. Capacity 293 cc.
~~Max. road speed 42 mph~~ ✓
 Gear ratios $5\frac{1}{4}$ top $9\frac{5}{8}$ bottom ✓
 26" wheels wheel base 50". $26 \times 2\frac{1}{4}$ Tyres.
 Weight 170 LBS.

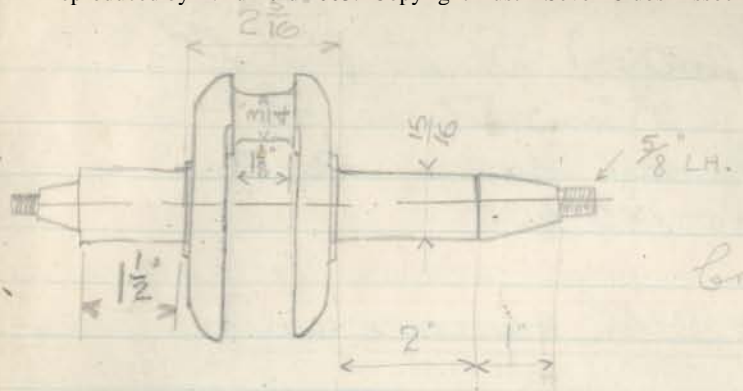
GEAR	1000	1500	2000	2500	3000
$5\frac{1}{4}$	14.75	22.15	29.5	36.9	44.3
$9\frac{5}{8}$	8.05	12.08	16.1	20.1	24.1

Oil: Castrol 'XL'. Proportion 1 in 16 *
 Transmission $\frac{1}{2}$ " x $\frac{3}{16}$ " chain (heavy) $\frac{3}{4}$ " belt
 Frame tubes: $\frac{1}{8}$ " x 12. swg. (NAG)
 Clutch single plate cork insertions
 Max. road speed attained 41 mph.

* Insufficient.



Inlet & Exh.

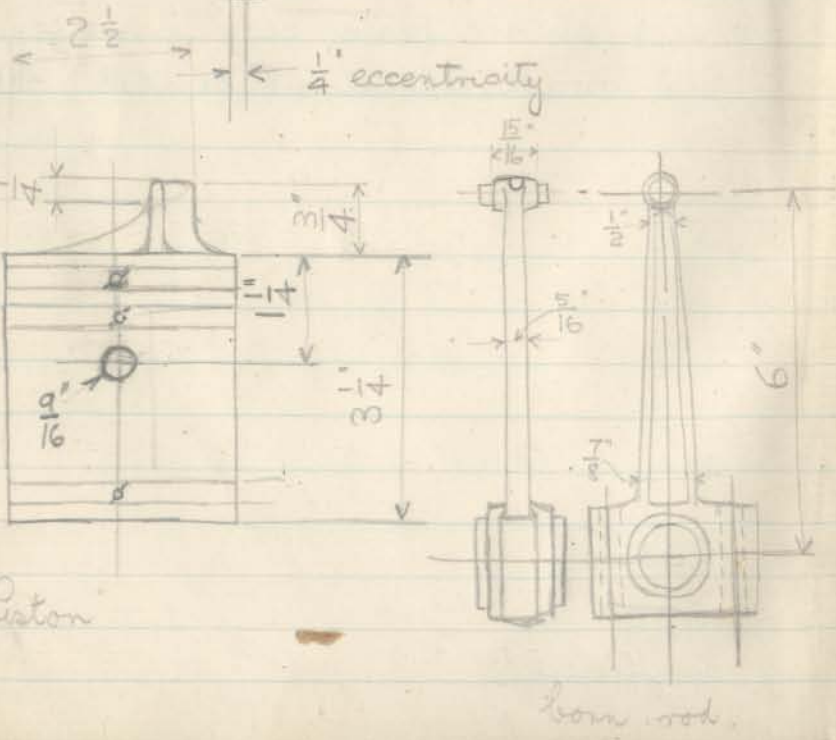


Crankshaft.



Transfer.

Sketches of 293 cc. Bonnaugh
T.S. Engine.



Piston

conn. rod.

Mar 1924
 2 1/4 HP (250 cc) Sports Velocette
 Bore 63 mm Stroke 80
 Max road speed. 49-51
 Weight 180 LBS

8 HP O.H.V. J.A.P. V-twin 50.
 Bore 90 Stroke 77 1/2
 Max road speed attained 64 MPH *
 Weight 250 lbs
 Speeds with various gears & engine revs.

Speeds with various gears

R.P.M	4.75	6.75	11
500	7.5	5.28	3.25
1000	15	10.5	6.5
1500	22.5	15.8	9.75
2000	30	21.1	13.0
2500	37.5	26.38	16.25
3000	45	31.6	19.5
3500	52.5	37.0	22.75

Ratio	500	1000	1500	2000	2500	3000	3500
3.9	9.9	19.8	29.7	39.6	49.5	59.4	69.3
6.6	5.85	11.7	17.5	23.4	29.2	35.1	41.0
10.5	3.67	7.3	11.0	14.7	18.3	22	25.7
3.5	11	22	33	44	55	66	77
5.9	6.54	13.1	19.6	26.2	32.7	39.2	45.8
9.4	4.1	8.2	12.3	16.4	20.5	24.6	28.7

Tyres 24 x 2 1/2"
 Carb. - B & B (single jet)
 Magneto. M.L.
 Duplex tube frame

16 or 18T Engine. 30T Gearbox. 8" gear pulley. 16" Binks carburetter. jets 00, 4, 9 *
 26 x 3 05. Rear tyre. 8 1/2" travel.
 Transmission 5/8 x 3/8 chain & 1" belt.
 Two valves per cyl. detachable valve pockets
 Wheelbase 60".
 Clutch 6 floating ferodo rings 5.1" x 3.7" x 1/8"
 6 springs
 Drilled cast iron pistons 5. 2 rings 1/8" wide
 Carburetter outlet 1 1/8"
 Exhaust pipes 1 7/16" internal dia.
 Magneto Bosch. waterproof

4 HP No 1

6 1/2 cast + 14 lbs rear axle (normal load)
 3 1/2 cast + 21 " " (unloaded)

3 1/2 HP Sporting Ridge (4 speed)

Bore 85 Stroke 88. 490cc.
 Inlet over exhaust valve (velocity steel)
 Ridge Aluminium piston, 3 rings
 at top.
 Transmission 5/8 x 3/8 chain front & rear
 Tyres 650 x 65. Quick detachable &
 interchangeable wheels
 Wheelbase 57 1/2"
 Price 'Huile de Luxe' (Summer grades) Winter

Taking MEP @ 100 lbs per sq

$$\text{HP @ 1000 RPM} = 3.340 \times 3.46 \times 3000$$

$$= 3.85 \text{ HP (for calculations assume } 3 \frac{1}{4})$$

Gear Ratios

	E	GB	CB	RW
with sprockets 1)	18 x 36	18 x 45		5 to 1
2)	18 x 36	18 x 36		4 to 1

- 1) for all round work also or lightweight of car
- 2) for stripped speed events etc.
or level road work.

Max. road speed (in touring trim) 60 MPH.