

## 40 Cars in Stock for

## Immediate Delivery

## LIGHT CAR

Authorised Agents for
AUSTIN CITROEN CLYNO JOWETT
LEA FRANCIS WOLSELEY

## 10 Cars wuosi £250

BY PAYING
f38 DOWN you can drive a car away, fully taxed and insured. Balance payable over 12 months.

All SMakes of Light Cars Supplied on Deferred

Terms

You want
the best Light CarWe have it! in stock


FREE SERVICE FOR SIX MONTHS.
GOOD PRICES IN PART EXCHANGE.
Low Deferred
Payment Terms $33 \%$
Our "Service Guarantee" is unique. WRITE FOR PARTICULARS.
0 pen until 6 p.m. on Saturdays.


489, Oxford $\underset{\text { (Near Marble Arch). }}{\text { Street, }}$ W. 1
Telephone : Grosvenor 3256/7
And at 92, Cloucester Road, S.W. 7
Open unsill p.m. on Saturdays.

1.4 h.p. All-stee! Saloon.
§225 WITH FRONT WHEEL BRAKES 2245 Order Now for Easter.
The Worlds Supreme Value


## This time the best comes from MANCHESTER

Manchester is noted throughout the world for the high-grade commodities she sends to all parts of the globe. Manchester has contributed, by the superiority of her manufacturers, largely to the repuration for quality held by British goods in foreign counlries.
In Manchester is established one of the oldest British frms of lubricating oil manulaclurers, with a great business built up during nearly 70 yearn, almost exclusively by recommendation for quality. This old-established house has developed an "Improved Process," which definitely marks a new phase in Motor lubrication, and offers to motor owners of every make of car a motor oil possessing new properties of far greater lubricating qualities than experiment in the refining of molor oils has ever previouily produced.

## (ava c) Manchester

'Improved Process' Motor Oils
possesses a lubricating value from $35 \%$ to $50 \%$ greater than that of other motor oils. It contains nol a veslige of wax. Wax drags down the lubricating value of an oil. The 'Improved Process ${ }^{\text {s }}$ successfully extracts every trace of wax and removes all carbon and all acids from the oil.
A Gallon Can Will Convince You.
Manchester WELLSALINE does not need a Season's Trial Your first gallon can will be a revelation to you of the wide difference between this perfect lubricant and that your car has been receiving.


MATTHEW WELLS \& Co., Ltd. Wellsaline' Oil Works, Hardman St., MANCHESTER. London Office : 317, High Holborn, W.C.1.


## E325

 DOWN
## WHICH INCLUDES:

## TAX \& INSURANCE

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\text { FOR } 12 \text { MONTHS, }
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NUMBER PLATES, LICENCE HOLDER,
DELIVERY TO YOUR DOOR, FREE TUITION,
12 MONTHS' SERVICE,

secures

## Jowett <br> 2-SEATER

$$
\begin{array}{llll}
2 \text { - SEATER } & £ 150 & \text { LIGHT FOUR } & £ 160 \\
\text { FULL FOUR } & £ 167 & \text { SALOON } & \ldots \\
£ 200
\end{array}
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## JACKSONS

 OFCROYDON,
LTD.
OFFICIAL SERVICE DEPOTS AT: KINGSTON \& CROYDON
35, Surbiton Rd.
Phone: $2 \overline{1} 15$.



Reasons you should fit DUACS
British Patent, British Materials, and British Labour throughout. 12 Months' Guarantee.

Both Actions Independent and Independently Adjustable. Progressive in Action.

Write for Booklet to
F. HARRISON CARTER, LTD., DUNSTABLE.


A Hundred Years Ago

AC'ENTURY ago, on June 16 th, 1825 , Michael Faraday discovered Benzole, but little did this Blacksmith's son dream of the far-reaching effects and consequences of his remarkable disclosure, and indeal very little was done with this by-product until the Great War made such a demand on men, brains and munitions. During hostilities the production of Benzole was absorbed entirely for the manufacture of explosives. But, today, in the form of National Benzols Mixture this powerful agent -originally created by the sun in the Paleozoic age -is at your service for the betterment of motoring. It is essential to ask in full for National Benzole Mixture, the motor spirit, unrivalled for performance.
A tess will convince you. Fill up today!

## No. 4

## Scrubbing

The gases from the coke ovens (degcribed in Advertisement No. 2) are passed into the hydraulic main and then freed from Tar and Ammonia by being passed through Tar and Ammonia Scrubbers where these are extracted. The gas, now free goes into the Benzol Scrubbers. These are generally Tower Scrubbers (as illustrated above) filled with boards. The gas passes up the Towers and meets a stream of creosote oil which flows down. This oil dissolves tho Benzole out of the gas and flows away at the bottom of the Tower, whilst the gas, free from Benzole passes out at the top. In order to obtain complete extraction several cowers are used in series. In the next advertisement we will deal with the Benzolised oil from the Scrubbers and its sable juent st.ges.

# National Benzol Mixture 

"The world's best motor spirit"
NATIONAL BENZOIE COMPANY LIMITED, WELLINGTON HOUSE, BUCKINGHAM GATE, LONDON, S.W.i.

THE 10 H.P. SPORTS MODEL

## £165

Any Salmson
Model may
be purchased on Deferred Terms.

De Luxe 2-seater and dickey, £175


Grand Prix Model, 75 m.p.h. Special Body, £300 (Front wings move with wheels.)

## $\mathcal{A}$ fine $\mathcal{C}$ ar with a brilliant ree

SOLE LONDON DISTRIBUTORS :

ALL MODELS ON VIEW.



31, Brook Street, Bond $\underset{\text { Maylair }}{2965-6}$ Street, London, W.1.

World's 1,100 c.c. Car

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## ON MONDAY, MARCH 22nd.

(All communications to be addressed to Church Wharf on and after this date)
20,000 Square Feet. Comprising
Extensive Repair Shops, Stores,
Assembling Shops, and Special Service Depot.

A good Service Station adds materially to the value of your car-another reason why your new car should be a SALMSON.

# ord-backed 

up by good

SOLE CONCESSIONNAIRES
FOR UNITED KINGDOM
FOR UNITED KINGDOM
AND BRITISH DOMINIONS :

17a, Motcomb Street,
Belgrave Square, S.W. $\quad\binom{$ after March 29th }{ at above address. }
E. J. BAKER \& CO., LTD., 33, High Street, DORKING, Surrey.

very many thanks
"Yes, a great success! Thanks for putting me on to it.
"I had been harbouring suspicions against those pure mineral lubricants for some time. Now I know. The first thing I noticed about this Huile de Luxe was that although it circulates freely when cold-far more so than pure mineral lubricants-it retains its 'body' when hot.
"That is because of the neutral fatty oils that are blended with pure hydrocarbons in its composition.
"It is a great discovery for me. Oh, I know I ought to have tried it years ago ; but it's never too late to mend!
"Good-bye, and again many thanks."

$\qquad$
$\qquad$

Huile de Luxe is made in three grades-Zero, Winter, and Summer -differing only in viscosity (fluidity). Advice and price list free for the asking.


One month's trial So that you can prove our claime for greater eeon cmy are amply justiGed wee will let you have any Zenitb on one montha arial. Wrote for pear and make of your princip Trinciple is correct ${ }_{3}$ endorsed hy the 680 leading automobile makers of the world who fit Zenith ns standard. car.

## Ais costs nothing - Zenith uses plenty of it

EVERY time the piston goes down and draws a great gulp of petrol vapour into the cylinderhead ready for the next explosion, a wonderful thing has happened. Within its Zenith carburetter a few tiny drops of petrol have been mixed with fifteen times their weight of air and converted into a highly explosive gas. Too much air or too much petrol would destroy the correct balance of the mixture and impair the efficiency of the engine. Peep inside a Zenith and appreciate something of the miracle of its wonderful Compensating Jet-the only device of its kind in the world. No matter how the running conditions vary, only the correct amount of petrol is fed simultaneously through its two nozzles. Not too much and not too little. Two nozzles? Yes, that is how

Zenith uses its great fundamental principle of the Compensating Jet. For while the engine speed is high and its increased suction would normally create too rich a mixture, the second jet automatically thins it down. On the other hand, when the engine speed is low and the suction from the main jet is weak, the second jet supplements it.
And so it goes on-a lynx-eyed magician watching to see that every drop of petrol is diluted with the maximum amount of air.
Petrol costs money-air costs nothing. Fit a Zenith and immediately you'll appreciate its greater economy. More miles to every gallon-because it uses more air. And what enjoyable, cxhilarating miles, too, with the knowledge that carburetter troubles are things of the past.

British-made

2ENITH
Adoertisement of Zenith Carburetter Co.. Lsd. 10/11 Newman St., London. H'. 1 .

TO THE READER.-By mentioning "The Light Car and Cycleaar" when replying to advertiscments, the progress of the small car moticment will be assisted.

## , <br> BaylissThomas

ROAD performance lively spurt, or steady pull: four up or rumning light: speedy comering with pericel salety-and sweet running with finger-light control.

## BAYLISS, THOMAS \& CO., tho Exectior inicorot bo. Lid

 TYSELEY, BIRMINGHAM.Economy - Bayliss Thomas is simply another way of saying low upkeep cosis! Petrol consumption astonishingly low-oil about 2,000 m.p.g. and an initial outlay entirely discounted by Bayliss-Thomas efficiency.

## 10/22 h.p. Touring 4-Seater.

 £235 Write for details of all models.
## SPECIFICATION

 OH.V. 1247 c.c. engine, Lucas electric lighting and starting. Extremely comfortable lighung ard stare wide doors. Dunlop cord body with tyres. Rigid side screen oper, spare balloon tyres. Self-starter, speedometer, spen, with doors. wheelelectric horn, tin of Castrol, inspect and complete kit of tools.


ABSOLUTELY WATERPROOF Made in
Khaki, Grey, Black and Navy Blue.

That Hood leaks and makes it mighty uncomfortable in wet weather.


One coat of Osco Renovator Paint will make your old hood as good as new again. Easily and quickly applied, it gives a smart appearance.
It is flexible, washable and ABSOLUTELY WATERPROOF
2 to 3 Seatcr, Quarter Gallon 9/3: 4 Seater, Half-Gallon 18/m ; Large Cars and Side Curtains, 35;ASK YOUR GARAGE-OWNER FOR IT.
If unable to obtain, write direct to the manufacturers, enclosing the necessary remiltance and your order will be sent by return of post. OWEN BROTHERS \& Co., Ltd., HULL, Eng.

FACILiTA TE BUSINESS, and ensure prompl altention to your enquiries, by mentioning

## $8 \cdot 3$

IR DE AULT


## "Power-Weight Ratio"

THE $8.3 \mathrm{~h} . \mathrm{p}$. Renault is not a pound heavier than it need be. But it is not an ounce too light. Some cars weigh surprisingly little in proportion to their horse-power. But this must mean some sacrifice of safety.
The Renault has never been pared down merely to save weight. It has an engine which develops and retains plenty of power, transmission capable of turning all that power into useful work, and a chassis that does not wince when severely stressed. We feel strongly that these things matter most.
The fact that some car has a startling power-weight ratio-on paper -isn't much help to a driver stranded on Salisbury Plain through serious mechanical trouble. But you can always rely on the Renault -implicitly

> Price (including four-wheel brakes):
$8.3 \mathrm{~h} . \mathrm{p}$. Two-seater with dickey $£ 219$
$\mathbf{8}^{-3} \mathrm{~h} . \mathrm{p}$. Clover-leaf
$8.3 \mathrm{~h} . \mathrm{p}$. Four-seater Torpedo .. $£ 219$
Litera!ure may be had free on request.
RENAULT, LTD. Showrooms : 21, PALL MALL, S.W.I.


## Special Renault

## Local Shows

Special Shown of latest Renoult modela will be held at the following Agema:
Until March 20th

## THEO \& CO.,

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CAVENDISH MOTOR Col CAVENDISH MOTOR CO.
Holywell Rond, Cbetterfield.
From March 15th to March 27th inclusicie
ROCK, THORPE inclusice WATSON.
62.GGovenar Rd.Tunbridge Wells. ADAMS \& GIBEONS.
AL.Thomand Se.Newciat
 33, Liverpool Rd.; Biridale

From March 29th to April 10th NORMAN COATES.
Market Street, Leiceter.
KING
Henleane Rd., Westbury -an-Trym. AMES VINCENT
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which we will gladly arrange to suit you, is proof that we have confidence the OMEGA THREE-WHEELER
will live up to the claims we make for it. Wherever you may live we will arrange a demonstration. You canthen prove for yourself that the Omega is built on sound lines and is a great improvement on anything previously offered in this class of car. Among the outstanding features which you will notice are the

## WEATHERPROOFING

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PERFECTSPRINGING CONVENIENT CONTROLS
EFFICIENT BRAKES
HANDSOME APPEARANCE
50 miles an hour and on a galion of petrol. Surely the last word in economy consistent with absolute reliability and comfort. Why spend Easter at home thinking where you would like to gojamp in the Omega and go where you wish. Get busy on that trial runto-day. A postcard will bring you our catalogue.

## Popular Model $£ 95$

De Luxe " $£ 110$
Family " $£ 115$
You will be satisfied if you decide to pin your faith on

MAY WE ARRANGE A DEMONSTRATION FOR YOU?


## 

The moment you enter a $10-30 \mathrm{~h} . \mathrm{p}$. Cluley Four-seater you sense the difference from other cars-the seats look more comfortable-more length for the tall man and width for the big man. Those who are accustomed to a light car are always astonished at the power the Cluley engine gives there is no need to coax the Cluley up any hill-there is ample power for any test you care to give it. That is why a Cluley is so delightful to drive there is always ample power in reserve. The car is always steady and under control at all speeds. For these and other reasons not least its engineering excellencethe Cluley has established a reputation as a "class" car, and yet it costs little more than the mass-produced article. Wouldn't YOU like a car of distinction like the Cluley? Write for a Catalogue and get to know more about it. CLARKE, CLULEY \& CO., GLOBE WORKS, COVENTRY. London Agents: Hayes Ltd., 342 \& 344, Euston Rd., N.W.1.


10-20 h.p. 1-cylinder, Two-Seater, $£ 225$ 10-20 h.p., 4 -cylinder, Four-Seatcr, $£ 235$. Dunlop Tures filted as standard.



CVERY detail of it makes Ruthe 'Knowle' 4-Seater "Standard" a car that looks and performs like a car of much higher cost. It has no equal in quality at it; price- $£ 225$.
Study its features. Chassis
and coachwork alike reveal thoroughness in design and workmanship. And behind it stands the "Standard" reputation for long life, no trouble, and low upkeep expense. Write for particulars or ask your agent.


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A Car Cleanser and Polish combined.

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A time saver. A car can be cleaned in 20 minutes.

## 3.

An economical polish. A $2 /$ - bottle will clean and polish a car 30 times.
4.

A brilliant polish and especially suitable for cellulose finishes.

If you have not tried this speedy, brilliant polish, send direct to us for a liberal testing sample sent POST FREE.

THE COUNTY CHEMICAL CO.,LTD., CHEMICO WORKS, BIRMINGHAM.

## With Crowds of New Drivers on the Road

-you need more than the protection of your own safe driving. Fit a Ber-kel Spring Bumper and save your car from damage in minor collisions through others negligence. The Ber-ke! is sprung to absorb the shock of an impact. It will save many a damaged Radintor-and it gives a note of elegance to any car.
The BER-KKEL
can be fitted In 15-30 minutes without drilling. Obtalnable direct from the manufacturers. Models suitable for MORRIS and AUSTIN ' 7 ' actually in stock. Others to order. Write for prices.
Richard Berry \& Son

(Proprietors: J. Broch house \& Co., Lid.)
Alma St., Birmingham.


Save the springs -Save the Car.
E.C. R. writes from Dulwich: OTha Anti- Dounce
Clipa han nour becn Alted and the reculle are ex
catient Ilate citien. Hare sinen ithe Car bood trial oter
and bunpy rood
 The Culpo are mplendid."
 the STOTT ANTI-BOUNCE

Shock Absorbera not only improve the riding comfort of the car, they increase the eflective efficiency of the Spring and lengthen the life of the car. The Stott Anti-Bounce is the simplest than the ordinary types. Built by cheaper experta and, therefore, fundamentally pight. Scod for intorcalfug booklot with full inforioniloo free on applicallon

Prices from 11/6 per pair $11^{\prime \prime}$ wide. Mention make and year of car when ordering.

## 



TO THE READER.-By mentioning "The Light Car and Cyclecar" when replying to advertisements, the progress of the small car movement will be assisted.

This is typical of the enthusiasm which the Swift inspires in all motorists. Let your next car be a Swift and you will realise why owners are so completely satisfied.
10 h.p. Four-seater .. .. $£ 235$ 10 h.p. Two/Three-scater .. £235 10 h.p. "Quinton" Saloon $£ 285$
Ask for Illustrated Arl Catalogue and name of our nearest Agent.

Manulacturers:
SWIFT OF COVENTRY, LTD., COVENTRY
London Shourrooms, Repair © Seroice Depot : 134-5. Long Acre, IV.C. 2 (one minute from Leicester SquareTubeStation).
"Ivaleo,"
24, Sandford Street, Swindon, Wilss.

4th November 1925

Messrs: Swift of Coventry Ltd.。 C OVFN-TRY

Dear Sire,
I am the proud possessor of a 1925 model $10 \mathrm{~h} . \mathrm{p}$. Swift four-sester Car which I purchased in March last. As a motorist of over 20 gears, I feol I must compliment gou on hoving turned out such a fine production. The general running of the car gives every gatisfaction. Already I have done 3,500 "trouble-frec" miles. The Engine has behaved perfectly under all conditions. Its power is amazing, it fairly "eats" hills on second with full load. I have "decarbod" at 3,000 but really I believe that it would have gone on for double that distance.

I am really enthusiastic about my car and can thoroughly recommend it (as I have already done with fruitful results) to any motorist who appreciates a comfortable, speedy and thoroughly efficiant yet economical Family Car. It will take some beating.

Yours faithfully,
(Signod)
C. W. KNIGHT

# faymuld $0_{n}$ Ton.alwaus 

T N comfort in reliability-in performance-and as a value-for-money proposition the All-British 12/24 h.p. Lagonda is unequalled in its class. Its wonderful " top" gear performance renders it a delightful car to drive under all conditionseither in traffic, where its flexibility reduces gear changing to a minimum-or on the open road, where its hill-climbing abilities enable a higher average speed to bemaintained over long distances.

12:24 h.p. Models.
New Prices.
The All-weather Touring
Model
L.C.?
.
2
$\underset{\substack{\text { The Soloon Model } \\ \text { (as illustrated) } \\ \text {. } \\ \text {. }}}{\text { ". }} £ \mathbf{£ 3 4 5}$


Write for Catalogue No. 26 c . L.AGONDA LTD., 195, Hammersmith Rond, London, W.6. mmersmith Rond, London, W. 6 Head Ofice and Works: SLaines, Middlesex


## Another MOSS Development.



HERE is a Moss Three-speed Gearbox which embodies all the latest advances in gearbox practice, and one which, by virtue of its quaiity and efficiency, merits the very serious consideration of all Manufacturers who are able to incorporate a box of this type in their products. Only the finest and most suitable materials are used in its construction, which, combined with accuracy of machining and correctness of assembly, make for the maximum service and the almost total elimination of noise.
It is fitted with a special device to prevent two speeds being in mesh together. Sliding gears operate on ground splined shaft and layshaft gears run on renewable Phosphor Bronze Bushes. Ball Bearings are fitted on mainshaft and primary shaft and, above all, the box is PERFECTLY OILTIGHT.

TYPE G1700/3. THREE- or FOUR-SPEED CEARBOX. Suitable for engines up to 1700 c.c. Supplied complete with clutch housing to suit No. 5 S.A.E. engine end, clutch operating mechanism and universal joint with housing for assembly with propeller shaft and tube. Neat enclosed spiral gears for positive speedometer drive. Easy operating brake and change speed levers.

THE MOSS GEAR CO., LTD. Aston Manor, Birmingham.

WHEN REPLYING to adverlisements, mention "The Light Car and Cyclecar." It helps the advertiser and you, and assists the small car movement generally.

by Mr. H. B Denley divivg a 10 bp R Rode Car, using only Pratts, captured the Victory Cup and Evans Cup in the Victory Cup Reliability Trials.

## also

PREMIER CUP won by Mr. G. MIDLAND CUP won by Mr. Stannard on a 246 Grindlay Peerless. HENLEY CUP won by Mr. Geo. Rowley on a 348 A.J.S. DUKE CUP won by Mr . G. Goodman on a 493 Sunbeam.

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N. P. O. Bradley on a 493 Sunbeam and sidecar.
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TURNER CUP won by Mr. S. Jackson on a 348 A. J. S.

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Designed specially to comply with the By-Laws of Urban District Councils. No. B. 217.
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# 10,000 Miles - not one penny for Repairs 

O NE appreciative Singer owner says:"I have just completed 10,000 miles, and, apart from adjustment of the carburetter, have not spent one penny in repairs or renewals.
'Petrol consumption about 40 to $45 . "$
This is typical of the many letters we are constantly receiving regarding the surprising performance of the efficient Singer.
The coachwork and equipment will really surprise you.
Rigid side screens convert the car into a Saloon, or act as side screens and rearscreen
if desired, complete with storm apron. A long roomy body seating five in comfortadjustable driving seat-real leather covered pneumatic upholstery-cover for hood and spare wheel- 12 volt electrical equipment--two horns - spring gaiters - reinforced Dunlop balloons, and the front wheel brakes, are but a few of the points that will immediately convince you that the Singer is indisputably the best valwe for money.
We would like to arrange a trial run on any Singer Model, or send you a catalogue by return of post. Gencrous allowance for your old car, and convenient nnancial terms arranged in strictest confidence. Over 50 New Cars in stock to choose from.

Other Models.
10/26 h.p. De Luxe Two-Seater $£ 225$ $10 / 26 \mathrm{~h} . \mathrm{p}$. Saloon

10/26 h.p. STNGER
De Luxe Four-Seater
$\mathcal{L} 225$

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STEPMAT \& VALANCE PROTECTOR and FOOTSCRAPER Combined. Most usefully designed and Most usefully designed and
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 THE STADIOSCOPE. conuine optical ground lena mirror. Double cont of silvering with special waterproof
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Absolutely the latest way of carrying extra uggage. No matter how rough the road your cases are quite secur $\underset{\text { richt away }}{\text { Order }}$ GET THIS TYRE GAUGE.
 quickly attached to the running board and ia telescopic, so that it can lee adapted for any length

A. W. GAMAGE, Ltd., HOLBORN, LONDON, E.C. 1 And at BENETFINK \& CO., LTD., CHEAPSIDE, E.C.2.


 in Car Carburation resulting in easier starting, far greater m.p.g. and greater engine nexiblive


Double-Atomisation Carburetter Please send me particulars of your one month approval scheme.
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## "I'M GLAD I GOT A SINGER!"

It's the last word of every Singer owner, from the veriest tyro at the wheel to the old hand with a generation's experience to look back upon. Many of the reasons why are explained in our comprehensive catalogue. May we send you a copy?

10/26 h.p. LIMOU.
SINE SALOON. IT/26 h.p. "De


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The Car That Looks After Ilself.
SINGER \& CO., LTD, COVENTRY
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Can be obtained from a!l high-class Garages and Dealers in 1-Gall. and 5-Gall. sealed tins.

Our Technical Dept. will advise best grade to use. Write stating make, h.p. and year of your car.

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FASTEST TIME OF DAY, $46 \cdot 29$ m.p.h. DORE 750 c.c. RACING CLASS RECORD - SENECHAL 750 c.c. SPORTS CLASS RECORD - SENECHAL

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Call and Inspect the Latest Models:

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\text { SUPER SPORTS THREE-SEATER } & £ 260 \\
\text { SUPER SPORTS TWO-SEATER } & £ 255
\end{array}
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Fitted with the most Efficient, Front Wheel Braking System.
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## Sote Conessionnaires-

## A. S. C.

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166, Great Portland Street .. LONDON, W.1.
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READERS, NOTE.-It assists the small car movement and the advertiser, and ensures you prompt

## Little Peter Pyrenes Car FireTalks.


${ }^{6}$ This Fire happened miles from anywhere and left the motorists stranded. Do not let this happen to you. Fit me."


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CARBURETTERS

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It is because the Cox "ATMOS" ensures an engine performance which the motoring public appreciate, i.e., easy starting, good get-away from cold, flexibility, smoothness, power on hills, less carbon deposit. less trouble. all-round economies, AND IS ABSOLUTELY ALL-BRITISH.

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A NECESSARY 'SPARE.' Miles away from a Garage with a broken ignition wire. Then does FLUXITE prove its worih. A minute spent with a hot soldering
iron, some solder and FLUXI'TE-and the engine is running perfectly. That is whywise motorists and motorcyclists keep PLUXITE nermanently in their tool-kit. Tbey know that soldeifing the FLUXITE way is simply child's play.

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It is perfectly simple to useand will lastfor years in constant use. It contains a special " small space" Soldering Iron, with nonheating metal handle, a Pocket Blow Lamp, FLUXITE, Solder, elc. and full instructions. Price 7/6. Write to us should you be unable to obtain it. Fluxite it Fhasined in can also be Hardware and Ironniongers Stores. Price 8d., 1/1, and 2/8. Geta tin today.


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## In summing up car values

the experienced motorist rarely finds everything he is looking for combined in one car. Careful consideration, however, of the Amilcar spec fication will show that it embodies the best features of modern nutomobile practice.
Personal examination of the chassis will prove that not only is it built RIGHT, but it is built WELL.
Attractively streamlined and comfortably sprung - it is only necessary to look to the performance of standard Amilcars in representative road trials to reach the conclusion that the Amilcar is a thoroughly sound iob throughout and absolutely without a peer in the "sports" class.
DISTINCTIVE GRAND SPORT MODELS from $\mathfrak{£ 2 8 5}$ AMHLCAR

## A FEW FACTS for the experienced motorist

The Engine of advanced design is remarkably sturdy. Recprocating parts are perfectly balanced and very light.
The Amilcar Engine will stand sustained high revolutions for indefinite periods without losing power.
Every working part is efficiently lubricated under pressure by positive submerged pump Cooling by highly efficient thermo-syphon system.
Variable Magncto Ignition and Solex Carburettor are standard equipment. There are no exposed working parts.
Thorough accessibility to all parts. Cylinder head detachable. Decarbonising can be carried out in 30 minutes.
The Valves are fitted with dual springs and are located inside the crankcase: the zuides are therefore always efficiently lubricated.
Clutch and Gearbox are of Unit construction with engine entirely enclosed and positively lubricated from engine sump. It is only necessary lo keep your engine oil level correct. The Clutch is of the two olate type and remarkably smooth and progressive.
The Gears are controlled by central ball joint lever and perfect changes can be made at almost any speed without risk of damage. The Ratios for Grand Sport Model are-Top 4.5 to 1 . Second 8 to 1. First 12.5 to 1. 9 H.P. Model 5 to $1,9.5$ to 1 and 14 to 1.
The transmission is carried through a single Hardy disc to enclosed propeller shaft, running on 3 bearings entirely eliminating vibration.
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Chassis lubrication is Tecalenit Pressure Gun System.


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Whilst possessing the qualitics essential to the absorption of small shocks, low presure tyres, by reason of their greater flexibility. tend to create excessive upthrow of springs and body, and set up a galloping and rolling action when called upon to tackle rough, uneven road surfaces.
Gabriels control this movement.

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Unlike low pressure tyres with their capacity for "giving" and recovering quickly (actions which set up the galloping referred to above when such movements arcexcessive) High Pressure Tyres resis: impaci. In so doing, they force the springs to flatten out. Rebound, sudden and distressing, is the result,
Gabriels prevent this rebound. Thus. whe her your car be equinped with
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## The new improved Austin 7 is here.

The new "husli-hush" Austin 7, the secret of which has been so well kept, is actually on view at these Showrooms to-day.
Limited numbers now available from stock -early call strongly advised for Easter motoring.
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CUP MODEL.
Feather welght - comfortable, yet streamFined Sports liody on Ausun 7 chassis.
Disappeailak hood-large locker for spare wheel and ample luggoge.
Fast-sporiy-bllent.
Price E 185
says "Motor Sport," referring to the Cordon England Brooklands Austin 7.
The article also said, after commenting upon the general excellence of this wonderful little car-
"Hitherto we have been able to find some points for comments of a critical nature in every make of car handled during our tests, but, frankly, the Austin 7 stumped us altogether, which is the best testimony that we can offer."
Every car is sold with a Brooklands Certificate that it has accomplished 75 miles per hour before delivery.
It will do 30 miles per hour on bottom gear and 55 m.p.h. on second gear.
Despite its high speed, it is quite tractable to handle in traffic, and can be comfortably driven in top gear.
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No other car of its type has ever given such a good account of itself in either Hill Climbs or on the Track.
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No matter in what part of the country you reside we will make you a GUARANTEED DEFINI'TE exchange proposition by post to include free delivery and collection to your address. Simply send particulars of your old car and the new model required.

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North, South, East, West-all ways are open to those who have the means, namely, an Austin Seven. And, as for "means" in the monetary sense-well, you'll find the cost of running an Austin Seven far cheaper than train fares, carrying you and your wife and a couple of kiddies where you will, just when you will, at less than a penny a mile all told. You've still time to get a "Seven" for Easter. Why not try the car to-day at the local Agent's?
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## Features:

4-cylinder engine.
Electric starter.
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Speedometer.
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Balloon tyres.
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Shock absorbers.
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Grease-gun system
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# NOIS, NEWS C, GOSSID of the WCEK 

## ON OTHED PAGES

The Open Road.
With Enster in the ofling the call of the rond is well-wigh irresistible. Business in new and second-hand light ears is very brisk.

## Road Up

In and around London just now there is wery great activity on the part of the various public authorities whose electric cables, couduits, water pipes and se forth are laid under the roads. Little or no consideration is shown regarding traffic congestion; at least one official car park has almost ecased to exist owing to extensive digging operations, but no tenporary park has been made available.

## This Week.

We present to our readers a special Spring Number, in which the greatest eare has been taken to collect articles vargine widely in their subject matter, yet all appertaining to the one great raison detre-the awakeniag season. Apart from the atmosphere which we have embeavoured to ereate, we bave not overlooked our usual features, and. in addition, we are able to give exclusive details of racing cars which are caleulated to make a mame for themselves this yenr.
No. 695. Vol. XXVII.


## Speed Trials Abandoned.

The IVoolwith M.C. Lave abaudoned the attempt to obtain a permit for speed trials on the new unopened arterial road frou Sideup to Ruxley. The new road, Which Las takeu three years to build, will be opened at the end of this month. it hats been roped off for nearly a year apparenty for the surface to set thor oughly. One of the Ministry of Transport huts on the road is to be taken over as a road seout's shelter.

## Another Parking Snag.

A case is reported of a motorist being fined for leaving his car after midnight at a recosnized parking place in London. lt is well to remember that cars can be parked only from 7 a.m. to midnisht.

## Sense and Scenery.

Now that the warmer weather bas begun there is every inducement to stoll beside the way to chjoy the comentryside. When halting, thought should be given to others; therefore pull ofil the road if possible. Many accidents are caused directly and indirectly through carelessness in this respect.

## Next Week.

the latest 11-2: h.p. Wolseley"On the Foad and in the Making" will be fully described next week. In addrisu we shall publish a special article for Jowett owners giving invaluable information concerning their cars, whilst we bope to find room for an unusual technical article describing ways and means for making aceurate measurements of intricate parts. This article will be most useful and interesting to all amateur mechanics.

## Exports to India.

Amang the susgestions made by $n$ Taxation Inguiry Committec in India ya:s that the import duy on motorears shouald be redaced.

## Petro! Price in S.A.

Motor spirit in Soulh Africa costs 2s. 10d. a gallon. No wonder they are bekimin: to turn from Amerienn cars tu Britisl products yielding inice the m.

## The Road Fund.

The totul amonut of recepts from mutor lasation for the fimmeial year
 It will be rectulled that when the fund was instituted a return of $£ 5,000,0(6)$ was estimated for the tirst yemrs worlsing.

## All Abcut Vibrations.

On Tuesilay, March i:3rd, 1rofessor J. J. Guest will wive on lecture on the " Vibrations of a Motorcar." The lecture will he wiven hefore the Institution of Antomobile Engineers in the Council lioom of the s.M.M. and 'r., \&3 Pall Mall, Loudon.

The " 200."
Tudging by the support givell to the I.A.C. Grind Prix, the J.C.C. 200 -Mile race promises, after nll, to be the onls successful long-distance race nt Brooklands this year. Reasous for the failure of the R.A.C. to attract entries are dealt with under "Topies of the Day."

## A Free Booklet on the Art of Tuning an Engine.

With every cons of the issue of our nesuciated journal, The Motor, dated Marelk 23 ril, a 16 -pnge booklet. which contains nin illustrated treatise on the firt of tuming aus engine. will be given away. The descriptive matter is of an intelesting and most instructive character, and really gives in condensed form most of the information contained in the average half-ernwn manual douling with this subject. It has beeu specially written by an expert, and describes the prineiples upon which tunin? is hased, in nddition to the actual adjustments involsed


Showing the immunity of a Gordon England three-point suspended bcdy from flexing when the chassis is distorted.


LIGHT CAR PROVERBS.-No. 12.
Does this picture suggest to you an old or Does this picture suggest ta you an old or addressed to the Editor and marked Proverb No. 12 in the top left-hand corner. A prize of a guinea is affered for the masi appropriate
proverb submitfed. If two or more readers proverb submitied. If two or more readers willgo to the sender of the first to be fudged. Only one solution may be submifled by individual competitors. No judging will be done before or after next Tuesday. For the winner's narne and address see next week's Around the Trade."

## Sir Eric on Tyre Prices

During bis aceent visit to the linited States Sir Eric Geddes, who is chairman of thic Dunlop Tyre and Rubber Co., Lttu., was asked on many occasions to give bis opinion coucerning the tyre


How the Leipzig point-duty man controls the traffic. The system of signal ling is said to work very well.
situation and the likelihood of further inereases in the cost of rubber. He would not commit himself, however, beyond snying that he lonked for considerable flactuations during the next six monthe.

Spanish Road Board
A road boaril has been set un by tho Sbanistr Govermment with the object of considering schemw for the recoustruction of Stanish ronds.

The Trend of Design.
Several concerns are adopting the idea of an offset position for the propeller shalts of raciag ears. This arrangement permits the driver to sit below the level of the shaift and results in much lower built cars.

## Longer Tyre Life.

According to a repmet imaided by the U.S. Ibure:an of st:matards, the durability of rubber to the efiects of light and heat can be materially incrensed by the use of substances which. although easily oxidized themselses, act as antioxidants when empleyed in rublher enen-pontuls:-

Learning to Drive.
To the busy man or woman a, scheme recently instituted by the İritish School of Motoring should be very useful. At any time of the day or eveniln, weekdays or week-ends, an instructor and car will attend at any address willin the Greater London area with the object of giviug lessons.

Interesting Figures.
Thace are about 20, ,um, OMO motire vehieles in the United states at the


The largest ever made? Zenith aero engine carburelter. Its size can be gauged by the $12-\mathrm{in}$. rule and the ordinary car carburetter beside it.
present time, over $17,000,000$ being private cars. From these figures it lats been calculated that the United States has four-fifths of the registered cars in the world. One Americau citizen in every six owns a car. In this comntry there is only one car to every $\overline{5} 7$ people.

## Pedestrians, Please Note!

The carelessness of pedestrians is heavily " strufed" by the chief constable of Stoke-on-Trent in his anmual report. At least SO per cent. of the accidents. to pedestrians," he states, "are easily avoidable. Pedestrians do not exereise nearly so much eare as motor drivers, aud often ndopt a most stupid aud solfish attitude by stauding in groups in the strects or well off the footpath at street corners, thus making it almost impossible for a motorist to turn from n side street into a main strect without risk." The main causes of the increased acedients in Stolse, he added, were that people did not lonk where they were soing.

## Brooklands

A rial run on the reconditioned track at limoklands which we enjoyed a day (1) two ago shows that a great deal of work has been done in smoothing out the bumps nud resurfacing patehes where the concrete was broken.

## Meeting of I.P.E

'The general meeting of the Institution of Drorluction Lngineers will be hold in the conncil room of the Society of Motor Manufacturers and Traders, Pall Mall, London, S.W.1, at 7.30 a.m., on 11 ciluesdny. March $24 t h$.

## The R.A.C. Grand Prix

Unon making inguiries on Wedneslay last at the Royal Automobile Clulu with regatel to the present position of the 'irand Pris we were informed that the Club had decided to make no statemont until next week.

New Lodge Plug.
A new standard Lodye plug which is designed to withstand great heat has just been introduced. Sinecial features if the new model are that it is detachahlo. it las a thick steel central elecfonde with a pure nickel sparking boint and is constructed so that it may lo taken to pivees and renssembled many times without clamage. 'The price remains the same as the previous stundard model, 5s., and it will continue to be known as C3.

## The Commercial Motor Comes of Age.

Many readers will find much to interest them in the current issue of The Commercial Motor, which is Special Coming-of-Age Number. Apart from important notes on the future of the commereial velicle, both for goods transport and passenger carrying, it contains many articles by well-know.. anthorities who have taken this oppor tunity for giving bricf historics of the commereinl-vehicle movement since its carliest days and from many points of view. Not of the least interest in the issue are the many illustrations which afined excellent comparisons between old-time nud present-dny vehicles.

Proposed Speed Limit.
Lucal residents are in favour of a 10 mile speed limit neross the L.N.E.R bridge at Church End, Finchley, which has been a somewhat dangerous bottleneck for some time. An excellent alternative would be to widen the bridge.

## Land's End Entries.

Entries for the M.C.C. Londnn-Land's End rus close to-morraw, Saturday. March 20th.

In Parliament.
An interesting suggestion with regnrd to the Roarl F'und has been made hy


The engine of the Fejes car, a chassis view of which appears below. The cylinders are made of steel tubing and sheet metal replaces castings throughout. The bore and stroke are 60 mm . and 110 mm . ( $1,244 \mathrm{c} . \mathrm{c}$.), the R.A.C. rating being $8.9 \mathrm{~h} . \mathrm{p}$.

## Provincial Motor Shows.

The second-hand motor auction and mart in Mauchester, which opens to-day, Friday, and will remain open until Saturday, March 27 th, is creating a considerable amount of interest. The Show is being organized by Provincial Exhibitions, Ltd., and the main hall provides accommodation for abont 200 cars. On Monday the Maidstone Motor Show will be held. The exhibition is being staged in the enlarem works of Rootes, Ltd., in the centre of the town, and will be oll a larger scale fhan any private exhibition held previously in this country under one root.

General Clifton Brown. He urged the advisability of financing all new arterial road schemes by issuing road bonds, with interest and sinking fund guarauteed by the Road Fund. Tben, the extra balance of $£ 4,000,000$ or $£ 5,000.000$ which would acerue to the Road Fund could be allocated to lucal authorities for the maintenance and repair of classified and uuclassified roads. Mr. Churchill, however, said that the Road Fund was fully able to mect its liabilities from its revenues. He would be strongly opposed to financing its operations by fresh borrowing, which could not fail to have a prejudicial wffect on our general financial position.


COULD EE SOLD FOR $£ 100$.

The inventors of this car-the Fejes-which is of Hungarian origin, claim that its sheet metal construction would allow it to be sold as a four-seater for $£ 100$. A photograph of the engine appears above and further particulars of the car will be given in The Motor on Tuesday, whilst next Friday we shall describe it fully and also hope to give our impressions of its performance.

# CYCLECAR COMMENTS. 



FRENCH CYCIFCAR POPULARITY - A SUCGESTION CHAIN OIIING MADEEASYSTEADY DRIP-IIELID SUPPLY -THE 1912 G.N. I)ESCKIBED

TTHA wo binotos which form the headiug to this mage were Inken at a recent hill-climh at Argenteuil, France. The upper picture shows liovin in a new edition of the Rovin coclecar. which I mentioned recently If one may judge by his smile, it would seem that the machine is running well. In the lower photo I Oore is depicted at speed in a Sima-Violet. This cyclecar is driven by a horizontally opposed twin two-stroke engine, which can clearly be seen mounted betwean the firont wheels.

Very great enthusiasm is displayed by the French public in events of this kind, and there is no doubt as to the popularity of the cyclecar in France. Failing the production of machines similar to the Rovin and the SimaViolet in this country, I think it might be a paying proposition to a dealer to fix un an agency, berause. so far as I am aware, neither of thesu cyclecars is represented in England.

Some amusing verses appeared recently in the correspontence pages of this journal describing various methods of lubrienting Morgan chains. I have had a fairly long experience of chain drive, and, in my opinion, the graphite-and-tallow mothod camnot be beaten, provided one has the time and anergy necessary for doing the jol thoroughly.

It would appeatr, lifowever, that tallow is not readily obsianable now-adays-at least, that is what my local chemist tells me, and I contess lhat the news dial not distress me very much, hecause it gare me an excuse for neglecting smmewhat the chatins of my Acio- Morgan.

I am insy now rigeing up an addifional drip-feed lubricator, supplied by the pump which feeds the engime
c16
ant having a efngle in-intore copper pipe leading to a 'L-piece near the bevel box. From the branches of the 'I two $\frac{1}{4}$-in. bore pipes lead to points over each chain sprocket. I imagine that very litue oil will be needed to keen the chains properly lubricated. and I like the idea better than hav ing a separate tank and pump, from which oil is supplicd "in hulk" at irregular intervals.

One of my rapidly growing band of correspondents is anxious to build a cyclecar, and has been advised to tate the 1912 G.N. as a guide. IIis counsellor apparently "saw a lot of these at the time and thought they were just the thing." but he dons not know anything of their construction, and breathed my name in the ear of H.K." ('Twickenham! as a jossible fount of information.

Here, wen, " H.K.," is what $]$ romember about this lathe bus of lung ago. A two-cylinder air-cooled engine, set lengthways in the frame, was situated at the front end of the ash chassis. Immediately above it was a long revlindrical petrol tank. Which formed the top part of the bonnet, whilst further protection for the engine was provided by remosable sides, which leaned against the lank and were secured in place by straps. At the front the engine was open to the elements, but the nppearance was rounded onf, to use ant Irishism, by the pointed nose of the tank. "Looks like a bullet, Joe!" as the small boys used to cry.

A long roller-chain transmitted the Irive direct from the engine 10 a countershaft situnted amidshijss, on which were mounted a flonting-plate -lutch and two chain sprockets. A second countershalt, to the rear anried lwo more sprockels-not
keyed to the silall--and changespeed mechanism consisting of dogs fitted with hard steel pins. The dogs were keyed to the shatt, and one or the other could be engaged with its adjacent sprocker, which had holes drillef in it for the reception of the log pins.

The reat sprocknts were mounted in a very norol way. As I have pointed out, they were not lieyed to their shaft, ams, fumber, they were kept hard up against al bush on one side by strong helical springs bearing against the othor side. If, therefore, the dog pins did not engage when the gear lever was pushed into the fisst-speed noteh, one let in the cluteld gently, rausing the sprocket to rotate and slide on to the dog pins when the correct position was reached.

At each end of the second comntershaft, and outsicle the chassis, was an 8-in. V'pulley, the final drivelseing by belts to, I think, 18-in. pulleys on the rear wheels. Suringing was by quarter-chlipties all round, the wheel bearings consisted of plain bronze bushes, and both foot and hand brakes acted on the rear-wheel pulleys.

I ran one of these litue cars for about 6,000 miles. Whhen I look it over it had alreary covered 15,000 miles, and, naturally, things were not so tight as they might have been. Nevertheless, it gave little trouble, and I pujoyed many a trip in it. As a design for a simple, workahle cyclecar well within the building capabilities of the amateur it is quile gond, hut, were I in the position of "M.K.," I should be strongly fempted to substitute a suitable three-spered motorevele gearbox for the dogs amb secondary chains.



> It's well worth trying. Economy has, of course, to be fairly rigidly exercised, but no enjoyment need be sacrificed on that account. Two can tour on £ 1 a day and cover quite a large mileage, if they can content themselves with cottage accommodation overnight

THE cost of touring in Great Britain in a small cal uaturally varies very widely according to the tastes of the tourists, but it may be taken for granted that a man and his wife in a reasonably economical twoseater can tour, without making any special efforts to economize, at a cost of $£ 1$ per head per day. 'This works out at $£ 28$ for a fortnight's holiday, which is, naturally, considerably more than most readers would care to pay.

Broadly speaking, the ligure of $£ 2$ per day for a married couple on tour is arrived at by allowing the following urices for the essential items of expenditure : Fotel and brealifast, 18 s . ; tea, 3s.; five gallons petrol, 8 s. ; supper, 5 s. ; lunch, 5s. ; oil, 1s.

With this outlay one can stop at quite good hotels, cover 200 miles a day at 40 m.p.g., and enjoy excellent meals, whilst it will be found in practice that unless there are ferry dues, toll-bridge fees, and similat expenses to be paid, there will be a little change left for cigarotles and so fortl.

The largest figure in this daily balance-sheet is 18s. for bed and breakfast, and this apmears to be rather exiravagant, but it will be found that if A.A. and R.A.C. hotels are patronized it cannot be lowered, as 10s. 6 Gd . is about the usual price for a double room for a night, whilst breakfast seldom costs less than is. per person and gratuities will easily run away with the odd 1s. Grl.

At some lootels, of course, a charge of 1 s . or so is made for rarage. Iater we will consider how this hoted bill cin be cut down.

It will be noted that 5s. is allowed for lumeh, and this must be regarded as the lowest figure if meals are to lon Ialien at restaurants in fowns. Hotel lunches genersilly cost cither 3s. or 3s. lid., lut ade seldom botter than those laken in restaurants, whilst ome usually has not so raried a menn from which to chrose.
-15

Ahe allowance of 3s. for tea is on the gromerous sitle, particularly as 5 s . is allowed for supper and many tourists prefer to combino these two meals into a high tea at about six or seven oclock.

A supner at 5 s. for two people is, of course, not attairable in the average "recommended hotel," at which a complicated meal costing from 5 s . to is. dil. it head is nearly always put on in the evening. l'artaking of this hotel dinner will be found to be an extravagance which few small car tourists can afford, and it is a much better plan when you arrive at your stopping place for the evening to drive to the hotel, book a room, wash, mupack, and so Corth, and then sally forth iutovthe town or village in search of a nice, clean. inexpensive restaurant. Such places are to be found quite easily, fs a rule, and they can offer an appotizing evening meal at a price well within the figure which we have allowed.

So far as the car expenses are concerned, it will be noticed that provision has been made only for petrol and oil, but the allowance of 200 miles alay is somewhat generous, as there are few tourists who consistently cover even half this mileage every day during the course of a tour extending for more than a few days. The oil ration at Is. a day would satisfy the appetite of even the most voracious engine, whilst those who keep a fivegallon drum at home and take a supuly with them on tour will find that an allownnce of Gol. per day for oil is more than adequate.
some people when they are on tour spend quite a lot of money on having the car cleaned two or thres times a week, but the writer has found that if a feather whisk to remove dust, a tin of metal polish for the bright work, and a few cleaning cloths aro carried in the tool-box, the need for Wiashing and polishing at a garage will not arise.
of consequence, whilst it quotes the prices charged at these liotels for rooms, meals, baths and, in some cases, iull pernsion. The prices listed are indeed a revelation to those who inave made a practice of always driving up to the "recommended" hotels wherever they stop.

Single rooms, for example, with breakfast, are offered at prices rangincr from is., and even less, to 8 s . per person, whilst where two people are prepared to share a room the cost is seldom more than Gs. a head for bed and breakfast. In rural districts it is as low as 45. Bel.

Here we have a clear saving on our otiginal 9s. a head estimate for bed and breakfast of from 3 s . to As. Gd.; or say, on the average, ds. a day. 'This, if one is to keep down to a total outlay of 10 s . a day, will leave 2 s . Od. to be sared, and 1 s . 6 d . of this can be economized by combining supper and tea into a solid meal, costing $2 \mathrm{~s} . \mathrm{Ed}_{\mathrm{L}}$, talien at about 6.30 p.m., following it up, if necessary, with a little fruit before going to bed; 1s. 3 d . per day then has still to be saved before sve get down to 10 s., and this must be effected by cutting down the price of the micl-day meal to 1s. 3d. per head. This may sound impossible, but actually it is quite easy to achieve by having an ofen-air meal, which need, in fact. cost no more than 1s. A good idea for open-air meals when on lour is to get veal and ham pies, sausage rolls, and similar diet which can be bought already prepared to take as a first course, and to follow this by fruit or buns. A shilling will buy three sausage rolls, two buns and a glass of beer, which should satisfy even the most rapacious appetite.

## The Daily Budget.

Irere, then, is the daily budget for each nember of a party of four on tour with a small car, covering 120 miles a day and areraging $40 \mathrm{~m} . \mathrm{p} . \mathrm{g}$. :-

Hotel and breakfast, 5s. ; lunch, 1 s . 3 d. ; tea and supper, 2 s .6 d . ; petrol and oil, 1s. 3d.

It will be seen that the largest item in this balanceslieet is for hotel and breakfast, and there is no way of reducing it save by cauping or cararanning. The latter is not so clieap as one might at first imagine, as the hiring of the cararan has to be paid for, and this nmounts to a fairly considerable figure. Camping, on the other hand, offers prospects of extremely cheap touring, whilst if holiday makers, instead of pitching a new camp every night, remain for a few days on each camping ground, they will find that thes can get their daily budget as low as 7 s . Bd. or 8 s . a day per person for a fortnight's holiday.

The cheapest plan so far as the tent itself is concerned is to buy one, and it can then be used year after year: but if storage space for a tent is not available nt home, or if it is thought that the tent is not likely to be used again, it is possible to hire one at quite a low figure.

It must be borne in mind, of course, that, having bought or hired the tent, there still remains a number of other important requirements, notable among which is a dependable oil stove and a few items of camp equipment. such as crockery, washing appliances, and so forth, but these can be hired at reasonable prices.

Some cars, of course, lend themselres quite readily for sleeping in, but naturally it is impossible for more than two persons to be accomololated. When camping out in this manner one is always sure of a dry bed. whilst the windscreen provides a conrenient means for ventilation, and the car can be placed in a position where it is sheltered from the wind. The chief drawhack to camping out in a car is that there is so very little room for the mattress, luggage. cooking utensils. and so fortl during the day. But this inconrenience is offset by the extra economy which may be practised with litlle real sacrifice of en, joyment.

Camping holidays are, however, so entirely depenrent for their success upon the weather that the writer hesitates to recommend them except to young, healthy people who can endure hardships without allowing them to spoil their holiday.


T70 experience engine or chassis trouble on the road nowadays is so wusual that when the unexpected happens the owner-driver may find himself unprovided with the necessary spares or with the knowledge of how to rig up some temporary substitute. Before starting on a lengthy run or a tour, therefore, it is well to male sure that the tool kit is in order and that the usual spares are on board

No suggestions will be made here, however, concerning the spares which should be carried, because it would be more useful to discuss ways and means of doing without them in an emergency
3 To this end the tool kit must be supplemented by the addition of such things as a length of thin rope or strong cord, some stout copper wire, a selection of bolts and nuts, and a tew "pull off" springs. A list of this

(Left) If the push rod is lost an overhead inlet valve may be made to work automatically by using a pull-off spring almost as strong as the valve spring. (Right) A pull-off spring replacing a broken valve spring.
kind could be enlarged indelinitely according to the amount of pessimism existing in the nature of its compiler. but in the present instance we shall keep our list small and, by suffering a few imaginery breakdowns, see how the car can be got going again with the available waterial and a little ingenuity.

Tyres are a vulnerable part of any motorcar, and although an ordinary puncture or burst may easily be repaired by the roadside, a large gash in al cover and tuhe is a more serious problem. The slit in the tube should have round holes cut at each end before patching is attempted; otherwise the slit will he liable to extend under the patch when the tube is inflated. It is advisable, also, to stick a patch inside the tube as wedl as outside if the slit is a long one.

A hady gashod cover can only be repaited temporarily, but this may be suflicient to get the car home or to the nearest tyre stockisi. One or more thickherses of patching cancias should be stare on the in-$\mathrm{C}-2$
side of the cover and, with the tube repintocd, it should be lightly inflated and strong leather straps or rope wrapped around the cover and rim between the spokes. Inflation can then proceed until the correct pressure is reached, when it will be found that the bandage has tightened and imparted a fair amount of strengh to the gashed place. In the case of cars having disc wheels the only practicable repair lies in the use of a blow-out patch or a tyre gaiter fitted with clips which engage the rim clinches.

Next on the list of possible roadside troubles come spring breakages, but it is only when a main leaf breaks that immediate steps for reparing it must be taken. In the case of half-elliptic springs the chassis frame must, of course, be jacked tup to its motmal position, and then a packing-piece such as a block of wood or anything of the kind obtainable may be slipped in between the spring and the under side of the frame member. The packing should be lashed into position with rope or wire so that it cannot shift, and the jack may then be removed. In this condition the car can be driven with safely provided that the speed is kept very low and the tyres not too hard.

## Tyre Levers as Splints.

Another way to overcome the effect of a broken main leaf, and this applies especially to the quarter-elliptic type, is to lash a tyre lever very tightly to it after having taken the weight of the cal on a jack. Strong lashings which will not "give" apprecially must be used in this case, because unon them will depend the success and safety of the renair.


A flat steel washer placed between the broken ends of valve spring will prevent the coils interlocking. Alternatively, the flattened ends may be placed together.

Iuckily, steering mechanism breakuges very seltom occur, but it is not unknown for a drag link or track rod to fracture. In this event the temporary repair which can be made will depend upon the nature of the
break. Thus, if it is along the length of the rod the two ends may be butted together in their normal position and braced with a tyre lerer inshed firmly in place. Held in this manner either a drag link or a rack rod will function safely in compression, that is, when it is "pushing," but in tension (pulling) there will be a risk of the broken ends being dratwn apart and, of course, when a car is being driven both of these forces are in action.

Having lashed the broken ends together, therefore, a few turns of cord or wire should be passed round the two track rod steering arms or the drop arm and its steering arm, as the case may be, and drawn taut


A piece of rubber tubing fitted as shown here will serve temporarily
as a contact-
breaker spring.
farallel with the rod. Tho inlea is clepicted in an jllustration at the foot of this page.

Turning now to the engine, common sources of roadside trouble are broken valve springs and, possibly, a broken contact-breaker spring. In the case of valre springs, if the break is in one place only, so that the spring is in two pieces, it can, as a rule, be made to work satislactorily by turning each broken piece upside down, so that the two flattened ends are in contact fand the broken ends fit into the collar and the other into the cup of the guitle.

In this mamer the spring will hare almost its
original strength, and there will be no possibility of the broken ends becoming interlocked. When the spring is broten in more than one place, however, it cannot be used again unless a plain steel washer is available for fitting between the broken ends to prevent interlocking.

By using a light "pull off " spring hooked into the slot of the valve stem and to some conrenient part of the engine ol framework, the valre can be made to close in a reasonable manner. Failing a spring a piece of rubber tubing or elastic may be pressed into service.

Should an inlet valve stem break it is still possible to get going again provided that enough stem is left to project half an inch or so through the valve guide. The procedure is to file a groove round or drill a small hole through the stem and secure to it a light pull-off spring or piece of elastic in the manner just described.

The pull of the spring should be only a few ounces, because the idea is to make the valve worl automatically when the engine is running, as the tappet can no longer reach the stem. At slow speeds the ralve probably will not lift and the engine will run only on three cylinders, but on opening the throttle it will be found that the valre will work well enough for the car to be driven home.

## Broken Exhaust Valves.

A brokeu exhaust ralre cannot be "faked" in this nay, because it cannot be opened automatically, but usually it is possible to fit an inlet ralve in the place of the broken exhaust ralve, which may then be fitted to the inlet seating and used as described abore. If, however, the engine is of the detachable head trpe without valve caps the owner will not relish taking off the head by the roadside, and the only remedy in this case is to remove the high tension wire from the plug and earth it to some convenient metal part of the engine, thus putting the cylinder out of action. The inlet valve tappet adjustment should be slacked back until the ralve is no longer lifted, and the engine may then be run on three cylinders, which will gire enough power for the car to be driven home slowly.

Although the resulting noise mar prove objectionable,

it is a grood plan to remove the phat from the inlo eydinder in order to prerent oil being drawn biast the rings into the head.

The foregoing suggestions have deall with side valve engines, but similat jury rigs may be adnpted to the orerhead valve type.

Enless there is a withmake: hondy who ean supply a piece of chrilled elock spring the only other way in which to make a contact hreaker work after its spring has broken is to wedge a piece of small-bore rubber tubing between the belterank arm and the fixed centre block. This arrangement is shown elearly in a sketch on the precediug bage.

A broken throttle reburn spring can prove rery annowing, especially it the broken pieces droll on to the road and canuot be found. If a spare spring is arailable all is plain sailing, but if not a stbstitute of some kind must be devised. A strip of rubber from an old inner tube can be used, or often the driver's or passenger's personal clothing will field the necessary piece of elastic: there is a tyue of braces which has separate end pieces of round woven elastic, and these ends form very nseful "return springs" in an emergency.

Broken netrol of oil bipes are not vers oasy to deal with as, short of soldering, a good repair is diflenat to make by the roadside. by wrapping the broken pipe tighty with ordinaty tape thickly coatad with common rellow soatp, huwever, the leak will he stopued or, at least, reduced sufticiently to mathe the car to proceed without undue loss of fuel or wil as the case may be. A piece of small-boxe rubler 1 ubing slipped over a broken petrol pipe so ats to join the two ends will effect a very good repair and the potrol will not have any apmeciable inf effect on the rubler for some time.

It petrol-proof rubber tubing is usad, lowerwr, it may, of course, be filted permanenlly and will prove of addantage in taking up any vilmation in tho pijue, thus going some way lowards preventing luture lractures.

Enough has been said in the foregning to show that a breakdown must he very serions bofore the driver need despair of getting the car home mader its own power, but because various somes of possible trouble have been mentioned the novice shonld not assume that he is likely to be risited by any of them, for to-day, a broken-down car is as rate as the moverbial dead donkey.

## INNS AND THEIR INMATES.

THE more that we travel up and down our country the more do we realize that not only is there a diversity of creatures, but that there is also a diversity of ims.

Motoring for most of us calls for frequent halls at wayside and roadside inns at which we encounter our fellow-creatures, and by reason of these meetings with all sorts and conditions of folk our impressions of the rarious inns known to us are often based on the kind of treament we receive and the experience of the people met therent. Therefore, in judging an inn, wo ought to bear in mind that it is only just to see how far we are estimating the place and how far the people whom we met.

Too often in life our minds are prejudiced against a place because we remember that our associations with it were marred by someone whom we disliked or by the occurrence of some untoward incident.

It is necessary to state here that a certain few inns, possessing lesirable features-antiquity, splendour or quaintness of arehitecture, a picturesque setting, or some other charm peculiarly their own-are robbed of much of their attraction by the lack of courtesy or absence of hospitality shown by their owners and staff. Thus it will be found that our judgment of an inn is mainly dejendent on two points-place and personnel.
To these two points must be added, however, a third -sentiment. We know only too well that the snirit which pervades Kiphing's "Sussex" is in most of us. That roem extolling Sussex contains the seutiments wilhin us that we ourselves cannot always express in words.
There is for most of us some corner of our laud which we look upon as home, some refuge from work and worry. somewhere to turn when the end of the journey is drawing near, where we may-

## Ilusband out lifes taper at the close

And keep the flame from wasting by repose."
This decidedly is the case with inns, and the chosen few have points which tend to make, if not the hostelries of our dreams, at least maces which we desire to frequent and which we will recommend to others. The pesential points include, among others, quietness, cleanliness, good cooking and service, reasomable charges and. above cevry-hing, a cheerful hospitality.

In writing of the last point, it is well to bear in mind that innkeppers and their stafts are often spoitt hy the beflatiour of these who visit their inns. There is a cerain type of individual who is found everwhere, even
in a motorcar, who seems always to נnaliu himself as objectionable as possible. It is his kimel that goms far to spoil the innkeeper-who, after all, is only humanand to try bis temper, his goul nature :ud his mammers to the uttermost.

There atre many types of this ohjectionable jersou. Some go out of their way to be unpheasant 10 all and sundry; others are possessed of nu manmers; others, who are merely selfish, seem to have no consideration for anyone save themselves.

These types are lairly common, as alsu the the lightfingered gentry who annex small things in the course of their travels. Small things, maybe, but the loss of them tends to make the landord suspicious and eautious. Hence the pelly, often irritating, restrictions at which we are inclined to kick. The lack of manners in what may be broadly termed the "general public" is, unfortunately, on the increase. Not that the majority of traveliers are lacking in manners; but with a certain number the need of the little courlesies that help to make easier " the trivial round, the common task" "does not seem to make itselt felt. With some even " Please!" and "Thank you!" "re dropping out of the vocabulary. Even in these days of iurdensome expenses civility is still gratuitous.

The above are a few of the types of peoule with whom erery innkeeper and each member of his stafi has to contend. If any innkeeper has had the misfortume to meet with more than his share of them, small wonder if he seems to be unduly lacking in hospitality towards strangers. If anyone comes into a man's home and behaves Jike a lunatic, hooligan or common thief, are is taken that the door is shut against him for evermore. The innkeeper camot shut his door ; he has to grin and bear his troubles; and this also applies to his stafl.

There is a wonderful atmosphere pervading most country inns, and in many there is a lingering touch of other years, the "good old days" as they are sometimes termed, and which, although no better than those of 1026, were probably more English, inasmuch as the "foreign element," through difficulties of locomotion before the advent of the railway and motor transpoit, had not made itself so lieenly folt.

It is the duty of everyone who travels by road and who frequents the inns on the way to mileavour by his own netions and clomennour to establish esprit de corps not only on the roal, but with those with whom he comes in contact at places where he stays en route.
E.A.H.に.

 HERE is no more delightful or healthy way of spending a holiday than by touring. lhe change of semery, the fresh air and, above all, the glorious sense of freedom, all combine to this cud. If carelessly planned, however, a motor tour can be neither delightful nor health-giving, and many an otherwise successful and enjoyable trip has beea marred by an incident which could hare been avoided by a little consideration and foresight in the first place.

The suggestions given in this article are based on many years' experience; if they are conscientiously carried out the tourist will have done all that is reasouably possible to ensure an enjoyable holiday and he need have no fear of its being otherwise.

Of the preparations necessary the car will probably occupy the most time unless it has received an orerhaul just previously. It must be borne in mind that a car usually has in stand up to much harder treatment during a tour ancl receives less attention from its owned. than in the ordinary course of events, and it is asking for trouble, herefore, 10 set out with a car that is not in good fetlle.

Important points are the engine and the brakes, as it is impracticable and unsafe to take a cor in hilly districts unless these are worling efliciently.

The engine should be reasonably free from carbon, and it this is not the case decarbonizing is advisable. Remember that even if this is not necessary at the begimning of the holiday the engine mas call for it hefore the tour is over, and limping home with a badly curbonized engine is a very noni way of ending a trin. The vilres should, of course, receive attention, grindhig in and tiplore adjustments being carried out if म"cessilly

A little time sjent in dismantling and cleaniug the carburetter will be well repaid; while an inspection. of the magneto distributor and make-and-break is also advisable. If the former is of the carbon-brush type and any carbon dust has accumulated on the contacts. they should be wiped with a clean. soft rag moistened with petrol ; moisture may be viped off with a soft, dry rag.

The correct gap for the contact points of the make-and-break is $1 / 50-\mathrm{in}$. This should be checked and the moints adjusted if necessary. Should the points be ineven, they must be trimmed with a dead swooth fle until they are perfectly flat, the smallest amount of metal possible being removed during the operation. riles are made especially for this purpose.

It only remains to clean the sparking plugs and set the points so that the correct sap is obtained, and the engine adjustments may be considered complete.

## Efficient Brakes Essential.

The importance of having efficient brakes should need no mmphasis and. although most drivers realize this, those whose journeys normally lie in flat districts are ant to be misled into thinking that their brakes are nflicient, although they may perhaps be quite incapable of holding the car on a really steep gradient.

If the brakes are ineflicient and adjustment does not offect any improrement, the linings should be inspected. In the case of internal-expanding brakes this will. of course, mean removing the drums. A recent article in Yhe Light Car and Cyclecar dealt with this subject fully. The lack of efficiency may be clue to the linings having worn thin, or possibly oil mas be the cause of the trouble.

In the former caso relining is the obvious cure, but oil or grease may be burnt of with a blow-lamp: the
shoes must of course, be removed for the purpose. Unless the linings are otherwise in good condition it is not worth while to carry out the latter operation, relining being the better course.

Tyres are probably the most frequent cause of roadside trouble, and every effort should be made to eliminate this risk. It is far better to replace worn tyres with new ones than to patch them up in the hope that they will last out to the end of the tour. The motorist to whom economy is of primary importance may think this is an rexpensive procedure, but if the old tyres are retited after the holiday, the last few hundred miles. wear may be obtained from them on local runs. The possibility of retreating should not be overlooked.

Examine cach cover carcfully and remove any flints which may be embedded in the tread. This should be done with the blade of a small screwdriver or pocketknife and the cuts should be filled up with tree-stopping medium. This can be obtrined from any large accessory dealer.

If the covers are worn unevenly, $a s$ is usually the case when they have occupied the same position for any considerable time it is a gond plan to change the wherlis

(Top) Every part of the chassis should be thoroughly oiled or greased before stanting. (Centre) Do not forget to lubricate the clutch spigot and to check the oil level in the gearbox. (Bottom) The acid level in the battery may be low an inspection should be made and distillad water added if required.
over so that the two in the best comtition are on the rear of the car.

Inner fubes which have seen a latre tomount of service may with advantage be inspected to see if they are badly chafed in any place. While the tyres are off


A little time spent in removing flints from the tyres and in stopping cuts should not be grudged - it may save hours during the tour.
remore rust, if any, from the wheel rims and, if necessary, give them a coat of quick-alrying enamel.

Springs should mot require much attention unless the suspeusion has become noticeably harsh. If this is the case, and gaiters are not fitted, the loaves should be separated, any rust scraped of with the back of an ohl knife and a liberal quantity of grease inserted between the leaves. Lubrication by gun is usually provided where gaiters are used.

It will probably not be necess:ury to sinend much time overhauling the lighting system. An inspection of the dynamo commutator and carbon brushes should be made ; the former may be cleaned and the latier renewed if badly worn. The level of the acid in the battery should be checked and distilled water added until the tops of the plates are $\frac{1}{2}$ in. below the surface. The correct specife gravity of the adrid should be 1.250 , and this can be verified by using a hydrometer.

## Iubrication Details.

Lubrication must not be forgotten, and all the usual points should receive their quota of grease or oil. IJo not forget to check the level of lubricant in the back axle and gearbox. If a prolonged four is contemplated, it will be advisable to drain the oil from the gearbox and fill up with fresh lubricant. 'The sumpl should certainly be drained and replenished with fresh oil, as the necessity, perhaps, of carrying out this rather objectionable operation during the trip will be avoidel.

A final examination of the chassis, to make sure that everything is in order and that there are no rattles, will complete the preparation of the car.

It may be thought from the foregoing that making a car ship-shape for touring is a very formidable task, but it must be borme in mind that if the vehicle has been kent in reasonably good condition many of the operations described will not be necessary.

Having dealt at some length with the preparation of the car, let us now consider the question of selecting at route. The tourist will probably have already definitely decided to what part of the country his wanderings will lead him, and it only remains to choose a route which will give the maximum enjoyment in the time available.

The first point to be seltled is the approximate distance that is to be covered. It is here that many novices make the mistake of planning a route which is far 100 amhitious; the frequent result is that the programme
has to be curtailed. to the disnjpointment of all concerned, or else the discomfort of continuing when the driver and passengers are tired has to be endured.

The daily mileage for the trip is entirely a matter of individual preference, and most people who have had previous experience of touring will kuow what distance suits them best. There are many who consider that a mileage of anything under 200 in a day is a very unsatisfactory performance, while at the other end of the scale are motnists who are content to average 80 to 100 miles, spending much time visiting places of interest. The novice will probably find that 100 to 150 miles, according to the amount of sight-seeing to be done and lis normal driring speed, is all that he will feel inclined to cover each day.

The question of whether or not to run to a timetable is another matter where the temperament of the driver plays an important part. To some it is a sheer delight
dificult to read. Fostcards are eminently suitable for the purpose, as they will clip together and can easily be carried in the pocket.

The names of all places of any importance on the route should be written down in a column and the distances between each written at the side. A third column may be added with arlvantage, this containing the distances of each place from the start. If there is an item of special interest at any spot, it should be marked, so that it will not be missed.

## Securing Hotel Accommodation.

Hotel accommodation may be booked heforehand if the tour is being made to a fixed schedule, but it is not really necessary, and has the disadvantage that the programme cannot be altered en route. A better way is to wait until a stop is made for tea, when it will be known how much farther it is convenient to proceed before stopping for the night. A guide containing a list of recommended hotels may be consulted and accommoplation booked over the telephone.

The question of carrying luggage is an important one, for it is difficult to know how much or how little to carry. Another article in this issue deals with the subject in a very comprehensire manner.

The only remaining point to be settled is what spares it is advisable to carry. The full tool kit supplied with the car should certainly be taken, and the onner will possibly have found that it is desirable to supplement it. A puncture outfit containing a sood supply of diferent-

The novice is strongiy advised to avoid roads of the type shown in these photographs, as skilful driving is called for and assistance may be difficult to obtain in the event of a breakdown.
in alance at the clock at every town or village and compare the time with that marked on a route card. To atimers the mere itea of a timetable destroys all jleasure, the greatest enjoyment being obtained from the thought that it does not matter whether 20 or 200 miles have been covered at the end of the day.

These are points which everyone must decide for limself, and when they have been settled the route may be mapped out.

In the case of those who hare had no experience of rough by-lanes, precipitous hills and formidable waterwhashes it is advisable to lieep) to main roads (from which, however, the best scenery is not always to be observel), or to obtain beforehand advice as to roads $\because h i c h$ it is proposed to include in the roule.

If the intending tourist is a member of one of the principal motoring organizations, he may write to the fouring department giving a list of the principal places it is desired th visit, the type of route prefermed and the apmoximate milenge to be covered; a suitable route will then be matle out by the elub. Some of the leating tyre manmfacturers will ilso sumply routes on request.
lionde cards may be found extremely handy foring the rum. They will save frequent consultation of the map, which, if opened in a strong wind, is extremely
sized patches must not be omitted, while tyre valve parts should be included. A spare tube is not necessary if the tyres are in good condition, but it should certainly be carried if this is not the case.

With regard to the engine, a set of spare plugs is most important. While the carrying of an inlet and an exhaust ralre complete with springs and cotters is a wise precaution. If the valves are interchangeable the tourist will only need to take one spare.

Spare lamp bulbs should certainly find a place in the car, care being taken in packing the bulbs to present the possibility of a breaknge. An electric pocket torch may brove to be extremely useful in the erent of lighting troubles on the road.

With regard to oddments, the following should be included:-Assorted uuts, bolts, washers and split-pins. a sheet of cmery paper, insulating tape, a linglh of copper wire, and a few clean rags.

The owner may consider it worth while to supplement this list if his car has any particular weaknesses. but the spares enumerated should be sufticient to corer arerage needs.


The alfresco meal is just as popular as ever with those motorists who have plenty of experience to guide them; but, to novices, picnicking is often disappointing. Here are the views of an expert.

AS the result of long experience the writer has no A hesitation in saring that, for economy or pleasure for both if you will-pienicking is worth while; but success depends entirely on the ability of the parties concerned to make the proper preparations and to enter into the spirit of the thing in much the same way that they would be prepared to enjoy any other minor adventure of the road.

Lemonade and Bath buns will be just as out of place as a ten-course repast starting with soup and ending with liqueurs; the happy medium must be struck and an endeavour made to provide a tempting menu without elaboration. but sufficiently substantial to sutisfy appetites whetted by a long run in the open air.

This in itself, of course, is an art; further, it is one in which women excel, but, if one may venture a suggestion, it is more satisfactory if a round-table conference be held, the bill of fare being mapped out to the entire satisfaction of all concerned

Roadside cooking may provide a good deal of amusement, but it is not recommended; such tasks should end with the preparation of tea or coffee to round off the meal, and even this can be taken in vacuum flasks and served as "piping hot" as the most meticulous diner desires. It should not be forgotten that soup can be served in the same way-providing that a suflicient number of racuum flasks is forthconing!

## Get Large Flasks.

If it is decided to buy one or two extra flasks it pays in the loug run to get the large size, whilst vacuum jars, with large-diameter lids, suitable for ices and so on, make a welcome addition to the kit.
A picnic basket solves many problems, but it is not absolutely essential. The best substitute is a wicker hamper, into which food and utensils can be packed.
Breakable crockers sometimes proves discouraging. but it cannot be denied that. whereas few would object to eating off a papier maché plate, the majority would jil) at drinking the post-prandial cofice from a tin mug! At any rate, stout chinaware should be taken: the " drawing-room" pattern is guite unnecessary and, for the matter of that, unsuitable.
There is no objection to knives, forks and spoons. Fingers, it is true, were invented first, but manners maketh the man; a provert to the truth of which some motorists are always anxious to testify
laper serviet tes save a lot of trouble ; they cost verslittle. and can be thrown away after use-hut not by the side of the road, please!
Picnies of the "hasty-snack" tope are easily c: 2
arranged, and can be made qutite appetising. The most simple menu would be dainty sandwiches, followed by fresh fruit and coffee a la racum Rask. 'This might be described as the busy tourist's luncln; it is not "picnicking for picnicking's sake," but the provision of a tairly satisfying meal at a time, perlarps, when food is essentiul.

## Wayside Menus.

A more claborate menu would include cold meat, pickles, rolls and butter, cheese and biscuits, and fresh fruit, tea or coffec-plates and cutlery, of course, being taken-whilst a simple salad will add to the attractions.
For a "real spread" the writer recommends soup, cold chicken with vegetable salad and roils and butter, a bottle of wine to " wash it down," timned fruit or trifle as a sweet, followed by ices, cheese and biscuits and the inevitable coffee !

Having sefled the menu, the organizers of the pienic are faced with the problem of deciding how the meal shall be served. Given a full 4 -seater, it is probably far more comfortable to dine within the car itself, but this will necessitate balancing a plate on one's linees, unless the owner has been sufficiently ingenious to provide a clip-on table.

Some enthusiasts, however, do not believe in this; they aflirm that it is not doing the job promerly, and nothing but a real spread on the grass will satisfy them. In this case the writer is hardly called unon to give advice, for the trials and pleasures of pienicking under these conditions have been well known from time immemorial.

One or two warnings, however, may be mentioned. Pienicking near a slow-moving stream is not advisable and it should be absolutely barred in the neighbourhood of stagnant water, the reason in both cases being that small insects abound in these regions and are casily attracted to the scene of the feast.

The shade of some kindly tree may mrove vely tempt ing, but here it is necessary to guard against falling insects, and it is preferable to take advantage of the shate of the tren at a slight distance than to lay the cloth immeliately beneath its boughs.

## Keep Off Main Roads.

Do not enseavour to picnic on a main road, leaving the car on the road whilst the al fresco meal propresses. Tlure is nothing more irritating to other road users than to hare to ciucumvent a stationary, moecupied car on a thoroughfare which is, perhaps, particularly buss. The car also may form a dangerous obsiruction.

Quite apart from this consirleration, little prisacy or secilusion is olfered, and the party would do iar better to take the first turning right or left, when a suitable site would almost certainly present itself.

When the meal is concluded, the picnickers should
take particular care to see that they do not strew the ground with litter. Paper bags, empty tins, used papier matche plates and so forth should be repacked in the hamper, taken home and disposed of in the correct manner.
For those who cannot enjoy an open-air meal without cooking it on the spot the best advice that the writer can give from his own expenience is to aroid the romantic camp fire and invest in a Primus store-of the "roaring," as distinct from the "silent," type. These stoves may be filled with petrol from the car tank or spare can and thus save the need for carrying parafin oil, which has a knack of rreeping" and imparting its unwelcome odour to the food.

## Elaboration Not Essential.

It must not be thought from the toregoing that pienies are not a success unless of an elaborate oider. On the other hand, one recollects occasions when a porli pie and a bottle of beer taken by the wayside have given more pleasure to the participants than the most carefully organized al fresco meal that was ever clemolished.
lidnally, a word or two as to where one may and may not pienic will not be out of phace. This naturally introduces the somewhat delicate question of trespass, but a sound rule to follow is this: Where access can be srained to any pieniching site without opening gates, squeczing through hedges, or jumping well-kent ditches, it may be taken for granted that there will be no objection to picnickers, providing they are well belared, and that those who have gone before have not left an untidy litter behind them. If the owner of the land approaches the party and orders them off, discretion is by far the better part of valour.

Roadside cooking may provide a good deal of amusement but it is not to be recommended.


One of the latest Singer saloons among the pine trees bordering the Portsmouth Road.

## Almost Here.

HERE are some glad tidings! The first day of spring is on Sunday-the day after to-morrow. The Easter holidas begins just a fortnight hence, and Summer Time starts a month from to-morrow. The season-if motoring is still seasonal-has opened; and there seems every promise that for we roadfarers it is to be a very noteworthy season indeed. First, we are surely due for a five summer, the last haring been that of 1921 -five years ago. Secondly, the roads of the country-and particularly those around our big towns-are better than they have ever been, and, thirdly, for many readers this will be their first season on four wheels.

## The Gloomy Side.

ON the other side of the balance-sheet one finds that driving this summer will be more diflicult than ever on account of the ever increasing number of new cars and new drivers that will be found on the roats; rumning costs will have gone up a shate owing to higher petrol and tyre prices than those ruling last year, and for those who are keen on the sporting site of motoring there will be little to entertain them.

Hill-climbs to day are mractically things of the past ; there are to be very few speed events indeed, except at lrooklands track, and even reliability trials, save minor club events, will be extremely few in mumber. This curtailment of sporting events Is a matter of trade policy which I need not deal C 28
with here, but so far-reaching will lue its effect upon this year's competitions that even the LondonEdinburgh run is likely to lose a substantial number of its erstwhile regular suphorters.

## Mahomet Goes to the Mountain.

TS there any joy which quite compares with that of Ghriving throngh the countrysite in early spring? It is indeed the "sweet of the year," but no poet has gone so close to the heart of it as the child who called it the "green-time." I spent a recent Sunday in the West Country, where spring seemed to have awakened a month earlier than elsewhere, and it was a sheer delight to drive along the lanes with the hedges newiy fledged :and the banks already spangled with primroses. I passed many a garden gay with early fowers and daffodits were blooming in profusion. With lambs frisking in every field, it was a mastoral to linger in the memory. One felt thankful indeed that the possession of a car enabled one to go to welcome spring inruat of awaiting her arrisal in the bleaker eastern counties.

## Inconspicuous Speed-limit Signs.

HOW many car owners passing through lemny Stratford, on the London-Birmingham road, are aware that at in in. h. limit is in force there? probably few, for the signs indicating the fact are not only set in an inconspicuous position, but so badly need a coat of paint that hardy anyone sees them. Moreover, they are only a short
distance from dangerous cross-roads, on which a driver's attention is naturally concentrated.

Coming through Fenny Stratford the other afternoon, I found the A.A. man there busily remployed directing tranic, what time two police officers stood idly looking on, ready. I have no doubt, to catch anyone exceeding the spectial sieerd limit. It seems to me that, where a section such as this is scheduled, the signs shoutd be placed well away from houses and not allowed to become indistinbuishable for lack of paint.

## To Hinder or to Help?

TWIE matter of police idling at corners leats me to ask whether a constable on ordinaty duty is supposed to give trallie any assistance at crossroads. A few miles from where I live a secondary road intersects a main artery in a village where some large lonuses make all the corners blind. In the daytime an A.A. man acts as pointsman, but at night drivers have no such assistance.

Amboaching this junction from the secondar: road on a dark night recently, I pulled up, gave a long hast on the hoin, and then proceeded at a crawl into the main road and, simultaneously, wins nearly rammed by a fast cat crossing my bows. At the same time I noticed, to my astonishment, a constable standing with his back to the wall on my right. IJeing just round the corner, he must have seen my lights and heard my horn, yet he hat given me no warning or help. A few clays later I read in the local paper that a car driver had beon prosecuted for crossing the main road at
speed at this very spot on the night in question. The ennclusion is that the constable was placed there not to prevent accidents, but to catch those who might cause them, and, if so, I cousider it a most despicable form of trapping. After all motorists pay rates for the upkeep of the police force and they have a right to look to the police for assistance in an emergeney such as I have mentioned.

## Round and Across London.

TUHE lot of the provincial motorist who is a comparative stranger to London, and who is faced with making a journey which will necessitate crossing the Metropolis, is not a happy one, but a very handy map, called appropriately " Itound and Across London," should go far to make such a journey easier. It shows the best way to enter, leave, cross or skirt London by routes on which there is a minimum of traflic, and is primarily a mitp of routes and not of roads. I think that the R.A.C. is to be congratulated on the production of such an eminently useful little gruide.

## Ha'p'orths of Tar.

TANUFACTUREIRS will have their little joke. A friend has just taken over a light car with which he is well satisfied. It is by no means a cheap car. The finish is rery good. and the standard equipment includes most of the usual extras, yet there appeared on the invoice an addltional charge of 5s. Gd. for a licence holder-a charge which rather tickled my friend.


In the soring sunshine. An 11-22 b.p. Wolseley four-seater photographed near Kingsbury, Warwickshire.

One other little discovery awaited him. He announces it thus:-" Iou will remember how I used to revile the dise wheels on my old bus. The tyre valves were on the inner side of the wheels, and conld never all be got at without moving the car. On my new car, which also has discs, the valyes come through on the onter side. Jut when 1 unpacked the inflator $I$ found that the rubber connection wasn't long enough to reach the valre if it happened to come to rest at the top of the wheel. Of course I can buy a new connection for a shilling or two, but doesint it hring to mind the old proverb?" It does.

## Towards Easier Changing.

GEAle-CHANGiNG is still a bughear with many drivers, some of whom, even after 12 months' experience with a car, camnot make a quiet change. ] suspect that much of the trouble is due to the reach from the seat to the pedals not being suficient to facilitate footwork.

If a driver hits to lift his fuot instead of pixoting it in order to operite the pedals the action is not quick enough. I have found, however, that some cal owners actually canse their own dificulties through a too conscientious effort to make s quiet change down.

I friend of mine who had reviled his quar--hange for a whole season recently discovered bhat if he kept his foot on the acceleritor pedal while fontly easing the clutch he could pull the lever right over without a somnd when changing down. For 12 months he hatd been performing unnecess:ury gymmastics!

## Mysteries of Carburation.

MIV presemt call, which could nut by any stretch of imagination be described as " stanclard," is the most intriguing vehicle which $I$ have ever owned, and I propose, with the Editor's consent, to give readers before long a detailed deserintion of its somewhat remarkable characteristics. Meantime, for the past few weeks I have bern busy trying to briug everything about it to a state of perfection. In this connection I was husy all last week endeavouring, with the aid of the forehnical stath of oue of our leading carburetter mathufacturers, to obtain reasomable fuel economy without too creat a sacrifice of performance. The results of rery cancfully couducted tests are, to sit: the least, mysterious.

## A Mind of Its Own.

TTHE engine, howerer. hats surcumbed so far in thwarting our every move and positively declines to give a better consmmptinn flan 24m.p.g. With 25 (legrees of valve orerlaly and it $4 . \overline{6}$ to 1 topgear ratio. You maş change commplelo carburetters, or merely content yourself with alterations of jets and chokes, but not the slighlost inmporement in consmmption can be obtaned. (on one lest rum wilh a most absurd setting, which wias so weak that the cal would only just run on it, we recorded at consumption of 28 m.g. ․․, but this was the one and only occasion-and tho one and only settingon which any different figure from 24 m.f.g. could be obtained. I wonder if there are any highbrow readers who have helpful observationsi in make on this somewhat surprisily state of allails?



## Be Cautious.

SAboON bolies, hoods and side curtatins have gone far to make noturing amost as enjoyable in January as in June, but the spring is still the time of vear when the newomers to motoring first take to the roads and when seanoned owners obtain delivery of their new models. It is, in addition, the season when We motor trade is at its husiest, when the best prices are obtainable for secondhand models and when every car owner is making his plans for the opening season. The first day of spring comes only four days before fuarter day, and thus extends promise to those who have laid up their cars during the winter months of soon again having a current dise in the licence-holder with the freedom of the road which its presence there confers.

It may be said with confidence that the number of new cars put on the roads and the number of new drivers who will be at the wheel will reach record figures during the next two or three weeks. It therefore behoves every road user to remember that even greater caution is nceded if mishaps are to be avoided. Accidents give no warning of their arrival, and they descend as surely as the sword of Damocles upon the reckless. On the other hand. those who drive carefully, who recognize the accepted courtesies, and who keep their cars in a good state of repair, are as safe upon our highways as they are whilst travelling by any other means.

## Oil Cooling.

TCHE appearance $\Omega$ few gears ago of a light car with an oil-cooled two-cylinder engine aroused considerable interest, and the system certainly did all that was clatmed for it. It should be menlioned that the engine in question was air-cooled as well as oil-cooled, but at least it embodied an entirely new principle to the success of which hundreds of light car owners will be willing to testity. The car in question is now out of producfion, but the reason for its demise is in no way connected with oil-conling: on the contrary, racing car designers, than whom there are tew more discernfog of far-seeing folk, are disclosing by their dedigns an apmarent conviction that for sustained high-simed work oil is just as necessary a cooling medium als water.

In this issue we describe thred new racing cars, THIRTEEN YEARS.

## Topics of the Day

"THE LIGHT CAR AND CYCLECAR" WAS FOUNDED IN 1912 TO CATER FOR THE NEEDS OF USERS AND POTENTIAL PURCHASERS OF LIGHT CARS AND CYCLECARS, AND IT HAS CONSISTENTLY ENCOURAGED THE DEVELOPMENT OF THE ECONOMCAL MOTORING MOVEMENT FOR OVER

NO CAR IWITH AN ENGINE CAPACITY EXCEEDING I,S00 C.C. (1) LITRES) COMES WITHIN THE SCOPE OF THIS JOURNAL. THAT CAPACITY BEING GENERALLY RECOGNIZED AND ACCEPTED AS THE LIMIIT FOR A LIGHT CAR ENGINE. ful for racing, but useless for every-day purposes. There is, however, no ceason why an engine designed so that oil plays an important part in the cooling arrangements should necessarily be ex-travagant-a fact which has been proved in aero engine practice, where it is not uncommon for so much as a dozen gallons of oil to be in circulation and yet for the consumption to be no heavier than in the case of car engines with similar characteristics.

## Another Grand Prix Threatened.

UTl to the time of writing. the entries, which closed at ordinary fees on Monday last, for the Joyal Automobile Club's British Grand Prix were -nil, and the Mitamas fiasco looks like being repeated. It is a staggering position in which the R.A.C. finds itself, and there must be some very ghod reasons for the non-fultilment of the high hopes of success that had been entertained.

To discove! these we can turn contidently to one source, namely, the regulations. They reveal three points which account for the obvious lack of support. First, the day; this, so far as the competitors are concerned, clashes with the Spanish Grand Pris, leaving only one clear week for would-be drivers to travel across to England and tume up their cars for the British race. Secondly, builders of unsupercharged cars do not fance their chances, and, thirdly-perhaps most significant of all-the race is colen only to cars with a minimum weight, empty, of 700 kgs , that is, just under 14 cewt., and the regulations distinctly state that " no ballast may be adden to the car in order to obtain this weight." Intending competitors were, therefore, faced with evolving special racing cars to comply with this regulation. and they have apparently dedided against doing so on account of the uselessness of the carss once the race had beon rum. A 1.500 c.e. racer to be successful in present-day speed events must mot weigh more han 10 ewt. or so.

NE hare all met the man who airily informed us that he had areraged " 35 over a failly long journey, but who, when crossexamined. admitted that what he intended to conver was that on the open rokd he hat "done 3 a a lot of the time." To such a man the information that he probably averaged a figure nearer 20 m.p.h. often comes rather as a shork. Nevertheless, it must be amreciated that to avomge even 20 m.p.h. orer gire-and-take country necessitates fravelling at $30 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. Whmever opporthities present themselves.
Keephing up a good average speed requires skill, experience and a knowletge of the comntry through which one is passing. To know the road thoroughly means that a much better average can be maintained. This can be proved by comparing the time taken during one's first journey over a certain road with that obtained at a later date when the same road has been covered, sily, half a dozen times.
At the outsel, then, endearour to memori\%e individual "slow sections" such as sharp turns, deceptively sterpl) gradients where an early changedown is an adramage. and so on, so that on a subserfuent journer time will not be wasted. In parenthesis it may be noted that it is not nerossury to ake risks: the careful driver will cover the ground guite as quickly as his more daring brother and will arrive at his destination without mishat.

## Help from Maps.

A cros- $\begin{gathered}\text { ountry } \\ \text { journey } \\ \text { is rather like an olstacle }\end{gathered}$ race: there are certain points where speped must he retuced. surh as when passing through big towns, villages and 10 -mile limits. It is of primary importance, then, to herome accuainted beforehand with a strange road; but as a rule it is possible to do this only on paper. Quite a lot can be learned from maps and roall guides: in fact, thex are the rade mecum of the tomist who is ansious io maintzin a gool average spere, will nu fear of missing the road.

As a general rule it is safer

always what it should bee and valuable 1 ime may be lost when inquiring the W:I.

The road-guite mentioned above will be invaluable for finding the quickest way through large towns. Jo not endearour to memorize the names of the streets, for it is casy to become confused between one town and another. When you arrive at the ont shirts of the town, your passenger shoubl protuce the guide, turn up the anmonmiane man and instruct you as you promend

Make a marticular note of towns which will be "celebrating" market day when you pass through, and during the actual journey be on the gui vive for catto and so on, not only in the town itself hut on the roads for several miles arommi. The police as a rule are stricter on markm days and are quick to warn or pull up motorists who, in their opimion, are traver ling tor fast.

On the open road driving skill is callent into play in several ways, mominnt amongst whech are the occasions when grod judgment and decisive atcion are esseutial. For instance, heavy commercial vehicles occupying perhaps hall the rodel, and slighty wer to the wrome side as


often as not, will 1requently be overtaken. Often oblivious to the sound of a horn in the rear, the lorry driver carries on, serenely uneonscious that it faster vehicle wishes to pass, and only a good driver linows when he can soize the opportunity of slipbing by.

Ton-mile speed limits are the Gake of quite a lut of frist time: whether or not the anomaist stricely olserves themm must be left to the individual, but their existenew emphasizes the need for good brakes and quick nccelerationt Moral; Keep the car tumed un in these rospeets to the best of your ability.

A road is 110 alwats what it appears to be from a map. The latter seledom shows all the minute twists - witness the Fen roads-but if a sharp ese is kept on the telegraph posts ahead, the course of a road which is hidden from the view of a driver hy a slight bend fringed with high hedges may be gatuged with tolerable aceuracy and no time lost by slowing down in anticipation of the unexpected.
'This advice, of course, refer's to the direction of the road and its gradient only; it is not an inviation to buss on cormers or take other molue risks.

IReplenishing a petrol tank by the roadside may oecupy five full minutes. IBefore starting out, therefore, fill up to the brim and, knowing the bethol consumption of the ear, (bowse a yarage in a suitable town where with the assisiance of a kerbside pump, filling
the necesiniy arrangements for food whilst the drivec attends to the wants of the car.

A waxim which might well be lorne in mind is: "Time spent in the galiage is time saved on the road." - As ath example, to set of on tyres which have several thousinds of miles to their credit without first having gone over them, exfracting flints and stopping gashes, is obviously criass foolishmess. In the sanie way, cleaning out the carburetter filter, adjusting the make-and-break and ensuring that the highteusion leads are firmly anchored will remove the chances of minor hat irritaling delays by the roadside. Such jobs really are part of the garage routine, but many neglect them, to their cost.

Many miles may be put between the car and its starting point if a daybreak getaway is made. Early rising in the springtime is half the jos of living, the country is never fresher nor the road more deserted and
an uninterrupted run of some 60 miles is generally possible. A late start, will the idea of carrying on after lighting-up time, is, on the contrary, a mistake. Apart from the increased difliculty of driving by artificial light, there will be tratlic in plenty, and frequent reductions of speed on account of approaching hendlights will be neesssnry. Finding the route will be doubly difficult and, compared with that maintained in daylight, one's average speed will passibly be halved.

A novice who is making his first tour, probably over strange roads, will do well if he adheres to a $20 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. schedule for, say, eight hours' running per day: Over the same grotud a more experienced driver would probably be able to arerage $25 \mathrm{~m} . \mathrm{p} . \mathrm{h}$; but it talies an expert with a very good car to average the " 30 s ". and " 3 J s " of which some optimists so airily speak. It is sufficiently difticult to keep upihigh averages like these over roads on which every turn and twist is familiar to the driver.

## State of the Roads.

There is one aspect of road trarel which doessnot always strike the man or woman who is planning a cross-country run and who wishes to maintain a certain arerage so as to be able to allocate a definite period of time to the journey. It is the state of the roads which will have to be traversed.

None but brutal drivers will fog their cars along at "schedule speed" over bad roads, when, by every dictate of common sense, a much slower speed is called for. This sort of thing is obvionsly bad for the car, but
is also rery bad for the passellgers. The constant jarring produces a kind of nervous tension, which is far from beneticial, whilst headaches will, almost certainly result.

Fortunately. really bad roads are getding scarcer and are confined to the secondary systems, but reconstruction work often makes it necessary to by-pass main-road traffic and much time may hare to be sacrificed by this unexneeted deriation from the straight line.

## Shortest Way not Always Fastest.

It one's journey is of sufficient importance to warennt the trouble, it is a good plan to ascertain the condition of the selected road before starting. and if it is not so rosy as it looks on the man, to plan a different-and perhaps slightly longer-route: for the shortest may, even along main roads, is not always the quickest! 'The principal motoring organizations can generally supply useful information, and, at holiday times, specially prepared maps can be obtainel. These maps show at at glance the state of the prineipal main rands throughout the country and are most useful ato long-distance tourists.

If rough roads must he trarersed, it is a mistake to stuty theoretical tyre pressures too closely. Let a little air escape from each tube, so that it is very slightly on the flabby side: it will make the riding far easier and will help to maintain the arerage at which one is aiming. After the bad sections have heen trarersed, howerer, a few moments spent in reinfating the trres will not be time wasted.



#### Abstract

Have you tried them? Whether you have or not, this article by Focus is certain to interest you. He describes himself as a "confirmed and unrepentant All-nighter."


EVBRIONE enjoys a new experience, whether it be pleasint or otherwise. For this reason people caplore coal mines, climb mountains, enter into matrimons and commit all manner of similar indiscretions. Cal owners, happily, need not go to these extremes in seeking new experiences and new thrills, for, given the wherewithal to travel from place to place. there is no end to the variety of entertaimment, relanat tion and sheer excitement which may be enjoyed.

There comes, however, a time when the motorist who has passed his sixth season on the road may feel that he is getting "fed up" with ordinary runs; when, in fact, he may even view the prospect of, say, a loug journey to a seaside or other holiday resort as a penance rather than a joy. The trouble with him is not that he has drained the cun of motoring to the Iregs, but that he has not learned how to whet his b:alate
The most priceless champagne would be intolerable to an epicure if he were compelled to drink it from all earthmware jampot and so may driving a magnifiem. car be a burden rather than a source of pleasure 10 a big-mileage motorist if the "atmosphere" is not 10 his lifing-and at holiday times it seldom is. The roans may be crowded, the sun in his eres and the dust of passing cars a contiunous source of amovauce. To him I commend the charms of an all-night run. It will introduce an entirely new sensation, and, just as a drug diend can never break away from his vice, so will he find that one all-night run leads ineritable to another.

Why this should be is not dilicult to explain. Darkness has fascinated mankind from the beginning of things; it extends the possibility of adventures which are never met in daylight and, whilst it holds sway, it gives to the man who explores the countryside an mimely new outlook which he who stons in bed can never appreciate.

The adventures and experiences likely to be met on an all-night run may apmear on the face of it to be far from enjoyable. "Imagine the misery of rain," you will say, "and the incessant backing to look at signmasts if we get lost." Quite true; but think of the flies and the lieat and the sandstorms of the liast ; yet its atraction, once it has gripped a man, can never be shaken off. He was a wise man who deelared that here is nothing pleasant that has not a backgeound of umpleasantness!

I come now to the greatest aftraction of an all-night motor run-the arrival of the dawn. By 2 a.m. at this sfason of the year you will find that if the start was made at about 10 p.m. the rear-seat massengers have bassed the yawning stage and given themselves unashamedy neer to slepp. The drivers neighbour on the fromt seat mas also havereateled the nodding stage. whilst he limedt, if a new hand at the game, will be finling none too wakeful.
c34

The time will then have come to call a halt. l'ull in to the roadside, bring out the Thermos Hatsks and the sandwiches and revive yourselves in readiness to enjoy the wonders of dawn. Thousands, tens of thousands, possibly even hundreds of thousands, never see the dawn from year's end to year's end. 'They have no idea of the thrill which is experienced by the all-night wayfarer when he sees those first grey streaks appearing in the sky, when the east gratually becomes suthused with streaks of grey, blue and white, and the hitherto unseen clouds overhead slowly take form and reveal themselves, lighted seemingly from bencalh, with dark ominous centres and fairy-like edges, diaphanous and silvery.

Shortly comes the twittering of the birds as they hegin to stir in the trees and hedgerows; farmands (walking and on bicyeles) relieve one's sense of being alone in the world; whisps of smoke from coltage chimneys begin to be in evidence, and thus slowly, stage by stage, the new day is begun. If you would squeeze the last ounce of enjoyment from attending its birth, 1 would advise you to make your plans so that you are following an east coast road when the sun first peeps over the horizon. 'The finest road I lincur for this purpose leads over the mors from Scarborough to Whilby, whilst there are others in Scotland which are almost as attractive.
If by good fortune there is a sailing slaip or a fleet of fishing vessels within view with a very slight mist hauging over the water when the early ray's of dawn throw the whole panorama into relief you will have imprinted on your memory a ricture which will never be forgotten.

But enough of the fascination of an all-night run; let us turn to its more practical charms. Suppose your starting-point is Iondon and your destination Cornwall, Yorkshire, Lancashire, Wales or Scolland. To reach it in a single day, and starting after breakfast, will be very hard work-and it may cost you a pound or two for a night's lorlging. In that event, you will probably arrive at midday, tired, dusty and feeling more like sleep than pleasure-seeking. About two days of your holiday will have passed before it has really begun.
If, on the other hand, jou had started the holiday with an all-night run, there would be a very different story to relate. Between 10 p.m. and breakfast you would have covered at least 180 miles and prohably more than 200. You would have enjoyed a leisurely breakfast, been on the road again by, say, 10.30 a.m., and completed a further 150 miles to 180 miles by teatime. Even $3 \overline{5} 0$ miles can be ionrnevel in this manner within the 24 hours, with remarkably litthe fatigue and with keen enjoyment of the greater part of the distance. If wou do not believe me, try it for yourself. Better still, ask another motorist who, like myself, is n comfirmed and unrepentant all-nighter.

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CONVENIENT METHODS OF STOWING PERSONAL BAGGAGE AND STORES FOR THE CAR.

0NE of the Hies in the ointment of most people's tramelling-when railway transport has to be relied upon-is luggage. Getting it to the station, finding a porter, and watching it up to the last moment to see that no misguided individual takes it out of the guard's van, after all the trouble of getting it put there, are trying to anybody's tomper. Then there is the trouble at the destination-but enough of this gloomy topic; lot us think rather of how easy is a molorist's lot so far as the luggage question is concerned.

Truc, it may be something of a problem to pack aboard a small four-seater all the luggage for a family for a fortnight, but it can be done, and that without bother, if space is properly planned before starting and the rarious items are packed so as to make the best of the room available.

Before considering the stowage of personal belongings, stores for the car itself must be accommodated. This applies particularly to oil; consumption nowndays is at such a low rate that about haif a gallon will often sunice for a comparatively long tour. In order to nvoid the need for mixing the various brands, a

spare tin can be tucked away in a comer or fixed upright on the running board. Another method is to make a small cradle for it below the fluorioards. Alternatively, special containers, held in spring clips. are sold for this purpose and can be fixed under the bonnet, where they are handy and do not occupy space useful for other kit.

## A Better Method.

Petrol is another irem; naturally, one does not take large spare supplies on tour, as they are available all over the country, bat there is the danger that one may run out of fuel at a lonely place. A spare 2 -gallon can fixed on the running board is one of the most popular methods of avoiding being stranded, but fitting a two-level tap to the tank is better, as this avoids the necessity for carrying the spare in, thus reducing weight and giving more space for personal luggage.

The tool kit is an essential part of the touring equipment, and two purposes may be served by giving it : real spring clean. The first is to clean out the box or compartment in which it is stored, and thus find out whether there is any spare room for further odd items; the second is to check over the various tools, making certain that no important item is left behind.
A spare wheel is. of course. obriously $n$ thing to be taken, but in some cases the space it normally occupies on the running board may be better employed for carrying suitcases. In these circumstances the wheel can be dismounter and a fixing made for it below the luggage grid if one is fitted, bit make certain that the fixing is really substantial, otherwise there will be another entry in the "lost and found " columins of the newspapers.

So much for the car and its stores. Now, as to clothes and personal belongings. It is far easier to stow away a fair number of small pack ages than to find room for trunk: or large suit-cases. Do not forget that small parcels can be tucked away in the pockets of doors and
corners which otherwise are umsed. Then, again, there is the question of the nature of fuggage; boots, for example, may be wrapped un in parcels and stowed away in odd corners where they will occupy useless space. Fragile or delicate things such as collars, dresses and hats obviously need treating with much more care and they should be stowed whore neither weather nor vibration can harm them.
liefore actually packing the luggage, go over the car and make a list of all the available spots where parcels can be stowed, and then the best choice can be made of cases, hoxes and the like to suit the accommodation.

Obviously, one of the most roony luggage-carrying spaces is that afforded by a grid at the back of the car. Many cars have not one fitted, but a suitable type can be obtained for about $£ 2$. It should not be orerlooked that the rear panel of the car must be protected, otherwise damage may be done by the packnges.

The next largest area consists of the two running bonrds, and many racks are sold suitable for fixing to them for holding suit-cases on edge, or, of course, small parcels in any convenient way. These racks cost from about 1iss upwards. Again, the protection of the varnished body panels must be considered. Another method of carryiog packages on the rumning boards is hy means of straps, and parcels slightly wider than the boards themselves can be accommodated in this

way. It may be necessary in certain circumstances $t 0$ make holes in the valances for the strinjs to pass through.

Coming now to the space inside the car, the owner of a two-seater has the boot at his disposal, and this will form the chief housing for luggage. When the dickey seat is not required the cushion may be left at home with advantage. The outside of the boot may also be used, but rubber matting or a wooden framework should be fixer to prevont the body sulfering as a result of seratches. In some instances means of fixing the cases must be provided.

## Housing Small Packages.

Now we come to the odd comers which can hold so many suall parcels. W"hen the side curtains are in pasition, their normal lome belrind the sofuabs or under the seat cushions is available, and thin fat objects may be put there. Next, Hare are the door pockets, but do not overlook the need for leaving a little space here for maps, papers and other small items which are certain to be wanced en route.

I ashboard cubby holes may fake a number of little oddments, but remember to leare room for ('ignrettes, matches, pipes, tobacco and chocolates which are wanted en route.

Rugs are often needed, and when they are not actually in use they can be sprend out over the seat backs or folded and laid beneath the seat cushions where their presence will be almost unnoticcable.

So far we have thought about the packages themselves and where to house them; now as to the means of holding them in position. Sitaps of all sorts and sizes are never really wasted on tom, and it is far better to have straps too long than too short. The lang of a file may be used for making more holes, but nothing can give those extra few inches which oftell make a strap useless. A tip when buying straps is not to considel any which have cast-melal buckles.

(Top left) Cases carried outside the body should be wrapped in macintosh sheets to make them weatherproof. (Lower left) The bulk of the luggage can be carried on a grid at the rear of the car. (Above) Door pockets are best used to carry items wanted en route, such as maps. Shallow cases can be carried under the occupants' legs without inconvenience.

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## MAKING THE MOST OF A MAP.

HOW TO FIND OUT POINTーTO-POINT DISTANCES-VISUALISING THE COUNTRY BY STUIIING THE CONTOUKS-SETTING THE MAP.

ALaOST as highls treasured as the photographs taken on a holiday are the matns used by a really onthusiastic tourist. Showing signs of wear, mitrked here and there for reasons only known to the owner, and often labelled with al nickname for the duticular trip for which they were originally bought, mans are part and pared of a light car tour.

So far the the majority of motoring maps are conesmed, particularly those plotted from Ordnance Surwiss, there ate mang signs used to denote churches, level crossings, wouls, and so on, but a pancl is ustally inserted either at the side or at the bottom of a map for the benefit of the reader, explaining the varions symbols used and stating to what scale the map is drawu.

## A Matter of Proportion.

This senle is easily umberstood and is presented in three different ways; lirst a simple statement of proportion, secordly a representative fraction, and thirdly an actual scale divided into miles and parts thereof. An example: w the first is "Two miles to the inch "; by" the second methorl the scale would be given as ratyo. The thirit or plain method consists of a straight line divided and marked to show what those divisions actuall: represent on the ground.
The first and last naured are the most popular, and are pasily understood without calculation. Direct distances from point to point may be measured on the map, by making pencil marks on a strip of paper and then scaling off on the divided line. As roads twist and turn, direct measurement is often very inaccurate, and a belter plan, in the albsence of a proper mapmeasuring instrument, is to use the winding knob of a watch.
For this purpose hold the wateh so that the knob rests on the map, then move it along the route to be measmed so that the winder revolves backwards-that is usually anti-clockwise. In this way the revolving knob will give so many cliclis per revolution. The

scheme is to count the mumber of clicks irom the start o the finish of the road, and then to rum the watch along the scale until the same number has been counted; the distance on the scale may then be read off.
Ordinary motoring maps are planned to give the user information which helps him to find his way from point to point, but intimate geographical detail is generally ignored. For those who want to explore any particular area closely Ordnance Surrey type maps
are useful. In such productions changes of elevation are shown by means of contour lines and "hachures"; the former are lines of uniform elevation, whereas the latter are shading lines, showing the steepuess of the slopes by their spacing.

Take any map and note the figures on the lines which twist and turn in and out. Say, for example, one is marked 200, then all points on that line are 200 ft . above sea level. Detached figures will also be found, and these are called "spot levels," indicating the heights abore sea level.


The relation between a map and the country it depicts is shown above; the use of contour lines can be seen.

The other method, hachuring. generally is used to show more local features, such as hillocks. Gentle slopes are indicated by long lines, widely spaced, whereas steep ones are shown by short lines drawn close together. In some cases a difference in the thickness of the line itself indicates the steepness of the slope. Another plan is to employ distinctive colourings for country of dilferent general elevation, but each map has its own colour scheme, and a guide chart is usually printed in one of the margins.

Having dealt with some of the chief points which arise when reading a map, let us now consider the actual use of it on the open road. It is quite an easy matter to choose the road by means of a map, but it is of ten difficult to discover one's actual position on the map to begin with.

## Setting a Map.

To do this, the map must be properly set. A compass is, of course, useful, but not necessary, and as the arerage motorist does not carry one, we may well ignore this instrmment and rely on natural aids. One of the most simple schemes is to place oneself between two outstanding objects, such as a church and a station, which can be identified on the map. Next hold the map so that the direction of an imaginary line between the two points in question coincides with that of the imaginary line on the ground; that is to say, the line on the map must point in the same direction and be parallel with that on which one is standing. Now "pick up" two objects which will give an imaginary line at right angles to the first. The intersection identifies one's position very closely.

## ROADS AND BRIDGES OF THE FUTURE.

"THE GOLDEN AGE OR: RAILWAY DEVELOPMENT IS PAST AND THE HIGHWAY ONCE MORE OCCUPIES THE CENTRE OF the stage," SAy's CHRISTIAN BARMAN.

OUli bridges are built cither by private or by public buthes. Those built by public bodies are bound to grow more numerous in comparison with the others, for the golden age of malWay development, which has been so prolitic of bridges, is past, and the highway unce more vecupies the centre of the stage.

Thus argues Christian Barman in an article in The S'ructural s'n!!incer, which deals with one of the antinowledged problems of the day. His views are of parlicular interest to road users.
The elevated crossing at busy centres must come, he says, " but wot, it is to he hoped, is foreshadowed by Sir Alfred Yarrows recent model, where a platform was shown put up in the middle of Oxford Circus, with no regard whatsoever for the architectural configuration of the place. The effect of such a structure as that would be much the same as that of a stepladder left behind in the drawingroom by a forgetful housemaid.
" No, an important elevated crossing for vehicular traftic should be designcd as the Holborn Viaduct, or rather as Waterloo Bridge, was designed, with a full realisation of all that is implied by its juxtaposition with streets and buildings. From this necessity we may deduct the axiomatic rule that, as the elevated crossing must occur at a higher level, the neighbouring buildings must take cognizance of this level; that is to say, that the main floors of these buildings must be placed at or near this upper level, and in any case not below it. For it is an obvious but inflexible law in architecture that, although a principal floor in a building may occur above the level of the entrance from the streel, it cannol occur lower down. And if sou enter a building from two different levels, the upper will always dominate the lower, upon which you can only place apartments of subsidiary importance.

## Viaducts More Numerous.

" It is resthetically impossible, therefore, to suspend an elevaled way in the middle of Oxford Strect while the shop windows remnin at the level of the pavement. We must, it will be agreed, make up our minds to create new elevated ways for these high-level crossings in such a manner that the lower floors of the buildings abutting on this way will be made neither useless nor ridiculous by its presence. We have such viaducts already, and we shall donbtless have more of them before long."
Sooner or later special footbridges for pedestrians will have to be considered, concerning which Mr. Marman writes:-
"Such footbr:dges will wery naturally be constructed of iron or steel, and their forms will be akin to those of the melal trimmings with which our buildings are ablorned. If they are designed with a proper regard for architectural logicality. they will no more compet with the surrounding buidings than do the balconies ihat protrtide from thes 2 , or the electric lamp-standards C46


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# SAFETY AND ECONOMY IN INSURANCE. 

HOW TO GET THE RIGHT POLICY AT THE RIGHT PREMIUM

T$T$ HhRL ato lew ferple who are not aware of the nerosils for taking out ans insurance policy for - at calr, lat a rationty small number takes the trouble !examatly to theal with the matter in detail. It pays, hom ver on undersiand the proposal form and the ferms which it incluters.
It must hemmbered that every company has its own barliwhal foms and wording; therefore, the motorist should read a proposal form or prospectus carofully ath methotically so as to make sure that he undersambs it before goins any farther.
The lics cop, in insuring is to dotain from companies,
decide for nny reason not to take out a full police, this section is the one which must on no account be omilted. No limit should be stipulated as to the company"s liabilits, and the policy should hold goud when any licensed driver is at the whed. Usually the insured is protecteri when driving other cars, hut only in respect of third-party accidents-a pnint which many do not realize.
Accidental damage is that caused by exterval means, collision due to brealidown or as the result of wear and tear, and malicious acts of third parties. The wording of various policies is difierent in this connection, and

agents or hrokers details of the policies atraitable i pronosal form, a schalule of premium rates and, if possible. a spetimen policy issued by anty companty in which an owner may be interosted will be invaluable in helping one to come to a decision. It is comparatively easy to pick out the good points ol any one insurance police, but acenrately to compare it with ollers is not so simple unless the names of the companies are written down on a sheet of paper and the varibus seetions of the policies are used as column hoadings. These should he as follow:--Third - party. accidental dumage, fire and theft, tramsit and Conlineufal risk, personal accident and medical expenses, gene:al, no-claim bonus and premiums.

When weighing up the merits of Lwo or more policies, this sheet is kept at hand and comments are written down in the moper colum as each secton is reat, enabling at trole comparison to be made. Let us now eonsider the points under eath of the foregoing headings which should be watched by the prospertive insurer of a motorear. or, in facl. of any mechanically propelled vellicles.

Third-party cover is of the momost impoitance. It is under this heabling that the most costly claims arise, and, should an owne:


The five principal risks for which motorists should insure. (1) Third-party. (2) Accidental damage. (3) Theft. (4) Fire. (5) Transit and use abroad. These are generally included in a comprehensive

careful attention should be paid to the point. It is importint to note whether the corer operates when the car is at rest or is being lowed, as this does not always hold good. I policy which prorides for delivery of a damaged car to a repairer and redelivery to the owne: is to be preferred to whe which does not contain these obvinusly useful benetits.

Fire and theft clauses arn usually clear in their meaning, iut the question of replacement value arises. An agreed sum is most satisfactory to the assured. If any other basis be adopted, the owner should see that the value is revised rearly when the molicy is renered, as by this means he will not be pay ing a premium hased on a value which he woud not obtain in case of tolal loss. I eonsiderable sum uf money can be stritel in a few ye:m by attention to this imiwrtant joint.

Transit and Coutinental risis vary but lite so far as the difterent policies are concerned. Vise abroad is generally cosered without extra charge, but the company must he noified before the car leares these shores. Certain countries are generally excluded, such as Russia, Turkey, Greece, Serbin. Bulgaria and Roumania.

Personal accident and medical expenses clauses are not alnays
included in the policy without extra charge. I'he limiting amounts offen vary, and in some cases provision is made for compensation for the passengers, but an extra premimm is usual. linormous sums are occasionally awarded to passengers by courts of law in respect of accidents causing them to be permanently or temporarily disabled, and it is really advisable to cover this risk by insurance.

Minor sections of diferent policies, such as those dealing with loss of luggage or rugs, perimission to stare repairs immediately, legal protection and arbitration in cases of dispute, should be compared under the " general" heading.

A no-claim bonus is a rebate, granted when renewing a polics, in respect of a previons period during which no demand has been made upon the company. Two points require explanation. First, if a policy is allowed to lapse and is not renewed with the same company, the bonus cannot be claimed: second, many a man is of the opinion that if a crash was not his fanlt he should
the company is sound, and that it has a good reputa tion for meeting clams in a fait and reasonable manner. Accuracy is absolutely essential in proposing for insurance. and it must be remembered that the form is the basis of the contract; for this reason it is adrisable to keep a copy of the proposal form, which serves at a later date as a means of checking the policy.

As a rule, a proposal form is made out about the time that an owner takes delivery of an can, and the poliey camot, of course, be prepared on the spot. in these circumstances a cover note should be obtained from the agent, broker or company, which serves instead of the policy until that document is delivered. Rearl the policy carefully and check the reyistered number, chassis number or other details which are typed or written, and auy endorsement slips-lhat is, statements regarding extra insurance-to see that they are in accordance with requirements.

The usual period of car insurance is one year, commencing from any required date, but short-jerion cover
 although they have not been the insurers; this oecurs when transferring to another company; the practice, however, is by no means general.

It should be remembered that premiums for cars used for business purposes are higher than those charged for purely private vehicles. Should there be any guery, the definition of "business use" should be aseertained from the company selected.

When comparing the premiums charged by one concern with those of another, it is important to make sure that the figures are comparable; that is, the cover in one case must be identical with that in another. To put this in another way: if two policies be offered at, say, $t 11$, the one which gives the greater cover is preferable providing the proposer is satisfied as to the financial position and clams reputation of the company concerned.

## The Question of Cost.

Premiums are based on horse-power and value. The former is calculated according to the Treasury rating, but decimal points are usually ignored; that is, an 11.0 h.p. car ranks as 11 h.p. When working out the value of a new car, the priee paid, plus that of any extra fittings, gives the desired result; but when the vehicle is second-ham, it is no good entering the value above the current marizet mice of such a model.

A rethetion of premium may be obtaned if the swner bears ant excess: that is to say, if he undertakes to pay an agred first portion of any claim. Whether or not this course is desirable must be left to an owner's discretion.
Now we come to the actual filling in and signing of the proposal form. The insurer should be satisfied that (:) 0

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that under the unique scheme of Pass and Joyce, Ltd., you can obtain one of these amazing little cars on payment of $£ 25$ (plus insurance)-the balance being completed in equal monthly instalments? You need no longer let financial considerations stand in your way to possession of an Austin Seven.

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## Wonderful New High-speed Cars.

## A NEWTON-CEIRANO RACER

First Details of a New and Greatly Improved Model which, it is Estimated, will be Capable of


RRamblis of The Ioght Car and Cyclecar will remember the favourable impression which was Lereated by the Niwton racer two or three years ago at Olympia. The (art, which wats designed and built by Mr. Null Niwton, in Italy, has been quietly undergoing tesis and improvements, and we are able to announce exclusively that Mrs. Ixy Simpson, nec Aliss Ivy Cummings, will make her reappearance in the racing worlh at the whed of one of these cars which Mr. Syduey Cummings has purchased from Newton and Bemnett, Lid., of London.
It has leen mentioned that the car was built by Mr. Noel Newton, but in view of his present close association with Ceiranos, Mr. Newton has decided to call it the Newton-Ceirano. In alddition. Mr. Cumnings has made one or two interesting alterations, and has been busy for several months in tuning un the car in preparation for a race meeting at Southport.
The engine is a three-bearing four-cslinder monobloc of 60.4 mm . bore by 95 m nu. stroke, giving a capacity of 1,018 c.c. The crankshaft has been specially balaneed by Laystall's and runs in ball bearings. In the particular engine we are describing, new mag-

## FROM

## DIFFERENT

 ASPECTS.The improved Newton-Ceirano racer is to be driven by Miss Ivy Cummings.

nesium pistons, weighing $4!$ oz. complete wih gudgeon pins and rings, have been fitted. The engine has tubular connecting rods.

The orerhead valves are inclined at 40 degrees to the axis of the cylinder and are operated by twin camshafts which are driven by a chain of spur wheels at the forward end. Carburation is by two ClaudelIobson carburetters with sealed float chamber lids and balance pipes extended beyoud the bonnet.
Ignition is by coil, the current being supplied by a 12 -rolt battery carried in the tail. The distributor is diven from the rear end of the offside camshaft. No magneto will be fitted.

Showing the 10 gallon cylindrical petrol tank in the tail.
 FEATURES.
The photograph shows the off side of the Newton-Ceirano engine, one of the o.h.v. covers being removed so as to disclose the camshaft and how it is mounted and driven. The distributor at the rear end is visible and the two carburetters can plainly be seen. The oil supply tank, with its 39 cooling tubes, appears in the top left-hand corner of the photo. The armoured pipes carry oil.

One of the most interesting features of the mgine is the lubrication system. The main oil tank. which holds about four gallons and has no fewer than 39 cooling tubes passing through it, is fixed under the seutile dash. Two centrifugal pumps comected to the tank via a junction box and large-diameter supply pipe force the oil through large-area filters 10 a distributing pipe in the crankease, whence oil is fed to each matin bearing and big-end. There is a ralve in


The cockpit of the Newton-Ceirano, showing the staggered seating, controls and so on.
the main pipe so that the supply can be cut of when the car is not being run, and thus prevent gradual flooding owing to the eflects of gravity.

At maximmm engine r.p.m. the pump pressure is only abont 3 ll . or 4 lb ., but owing 10 a special centrifugal system of distribution-the subject of a patent by Mr. Noel Newton-the big-ends receive a pressure of oil which rises in direct proportion to the r.ju.m. of the engine. This has the advantage of drawing a large amount of heat from the big-ends and enabling them to stand up 10 hard work. Two further centrifugal pumps are utilized for scarenging; they suck the oil direct from the hottom of the crankease and return it once again to the main tank.

The lubrication system of the overhead camshafts is entirely separate from the engine delivery system, hut here again two pumps are employed, one drawing oil from the main tank and forcing it along the hollow "amshafts, which, by the way, are also momeded in three ball beatings apiece. The second ceutrifugal pump keeps the valve chests constantly drained by returning the surplus oil to the tank. A cut-oll valve is fixed in the supply pipe to prevent flooding. Einch cam face is fed with oil direct by an oilway comecting it with the drilled interior of the shaft. Rocking levers are interposed between the canss and the valres, whilst the latter have two springs each.

From this it will be observed that certain parts of the engine are cooled as eflectively by oil as are the cylinders and so forth by pump-assisted water circulation.

Engine, clutch and gearbox ade built as a unit, the clutel being a Ferodo-lined cone, which has been slightly altered from standard, and has been specially balanced by Laystall's. The gear ratios are $12 \frac{1}{2}$. 8 , (i.2 and 4 to 1 , the final drive being ly an open propeller shaft to a straight-cut hevel and full differential.

The U-section frame is of course, liborally drilled, and is kept low by up-sweeping the rear part of the longitudinal members and employiner semi-elliptic springs of flat formation bath front and rear. Hartford shock absorbers are fitted. The body lines are kept low by arranging the driver's and mechanic's seats on each side of the propeller shaft. The body is, of course, streamlined, the fairing being carried under neath the frame from stem to stern.

As already mentioned, the streamlined tail carrics the 12 -volt accumulators; it also houses a 10 -gallon betrol tank, fuel being delivered by pressure to the fwin carburetters.

The car has four-whed brakes, the drums being heavily ribbed to dissipate heat; contrary to usund practice, howerer, the nedal pperates nnly two shoes in the rear wheels, whilst the lever worles the frontwheel brakes-a scheme populatized on the Austin Seven.

The car has been overhauled practically from emt to end, and will shortly be rearly for testing. It is anticipated that when tuning operations have been completed a speed of $100 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. will be possible.

## ELDRIDGE'S SPECIALS FOR THE INDIANAPOLIS

## Two-seater Ready-Single-seater Nearly Finished.



$$
\begin{aligned}
& \text { ELDRIDGE fhe famous driver at the wheel of his new Indianapolis two-seater. The passenger seat can be } \\
& \text { "AT HOME." covered in so that it conforms with the lines of the body, the removable shield being shown } \\
& \text { in position. The car is, of course, supercharged. }
\end{aligned}
$$

1 TI' the ferseverance which Mr. E. A. D. Eldridge has shown for the past 12 months is rewarded with the success it deserves, Great Lritain will play a very important part in the classic Indianapolis race which is fixed for May 30th.

The first of the Eidridge Specials is practically comalede, and it presents so businesslike arr appenrance that we may be forgiven for being optimistic as to the chances of this car in the race.

The extremely low build and the almost perfect streamlining are the points which impress themselves upon the observer during a first examination, and it is interesting to note that although there is over 5 ins. ground clearance, the overall height is only 29 ins. Wind resistance, therefore, will be reduced to a mininum and the ear will be extremely stable, owing to its low centre of gravity.

The low buikd has been attained principally by under-


## The lowest price at which any De Dion Saloon has ever been sold

## The New J.P. De Dion 10/20 h.p.

Long supple cantilever springs to smooth out every hump in the road - four wide doors -finely proportioned outlines-a dignified and harmonious folour scheme-elegant filtings- -these are the features which distinguish the De Dion J.P. Saloon.
Available in two types: the Fabric Model at $£ 375$, illustrated above, and the Coach built model at $£ 395$.
The highly popular Fabric Model is equipped with hlack and nickel-plated lamps, speedometer, license holder, cowl ventilators, arm slings, two horns (bulb and electric), Dlinds to dnors and windows.
In addition, the Coach-built Saloon has the following: an electric windscreen wiper, driving mirror, interior light, luggage car rier, ash trays, rope pulls, adjustable front seat, license holder, Wefco spring gaiters, 8 day clock and dash lamp, Truly a most comprehensive and luxurinus equipment-one worthy of the De Dion reputation for thoroughness and completeness of detail.

```
N|Wreather T.P. Modela and Pricen:-
    AllWeather Torpedo, $-acuter : £310
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```

YOU'LL like the appearance of this handsome 1 new De Dion Saloon. Although rated at a nominal $10 \mathrm{~h} . \mathrm{p}$. it is considerably larger and more roomy than other cars of its class. Its wide and gencrous hody ensures the utmost comfort for four adults. Mcre words canuot adequately describe its superb coachwork - the flexibility and quietness of its wonderful engine, true to every De Dion tradi-tion-the delighiful simplicity of its gear change -the positive safety of its four wheel brakes.
Ouly a spell at the whecl can do this. Five all-toobrief miles will convince you that never before bas such value been offered for so little money.

A touch on the starter and its powerful engine leaps into life. Depress the clutch-flick the gear lever into first-release the pedal and instantly the car glides away with a silken smoothuess that must astonish the most critical owner.

In Ilexibility, ruggedness of construction, luxurious springing. economy of maintenance, the new J.P. Saloon is a typical De Dion product. Its deep, rest ful cushions and ample leg room ensure perfect relaxation even though you drive the whole day through.


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## Coupé £165

New Four-Seater Model at £165 will be available for delivery March 20th.

[^5]PEUGEOT (ENGLAND) LTD., 78-80, Brompton Rd., LONDON, S.W. 3
slinging the chassis, and the streamtming has been so cumningly contrived that the whole rar rescumbes nothing so much as in clongated sholl mounted on wheels. The work of ercction has been carried out in Paris under the personal direction of Mr. Eldridge, whilst he has, in addition, hean keeping a wateldul obe on a second car-a single-seater with a similar type of engine to the two-seater hat differing from it slighty


The engine of the two-seater Eldridge Special. The
supercharger is situated at the front, but is vertical. supercharger is situated at the front, but is vertical.
The whole engine has a remarkably clean exterior.
with regind to suspensiun. Inciulentally, the singleseater will ho drivon ly Jr. Douglas Hawkes, whilst Mr. J. E. 1'. Howoy will mobobly act as reserve driver. This car is actually blie single-seatel wilh which Mr. Eharidge has eatahlished reaords already, but it has a new o.ln.v. engine, new axhs and redesigned steering.

Reverting to lhe two-siathr, this has at 09 mm . by 100 mm . Sour-eylindel engine $(1,496$ c.c.), and inctined overhead valves operated ly I win camshafts driven by n single roller chatin at the alter-end of the cylinder block, chain ablustment heing provided by means of a jockey sprockent.

The valwes thomselves are set at an angle of 90 degrees, whilst double valre springs give a spring pressure of over 100 lh . 'the combustion head is hemisplerical in shape, and the greatest care has been exercised in the design of the water jarketing, with a special view to maindaining alerglate coolness of the valves and their housings.

A photograph which strikingly portrays the low build of the car. With a ground clearance of about 6 ins., it is only 29 ins. high.

ball bearings have been used wherever practicable; thus they are employed for both the three-bearing rramkinaft juurnals and the big-ends, the crankshaft ilself buing built up of five pieces. Supercharging takes thu furm of a Roots blower mounted vertically instead of horizontally, as is usunl, and driven hy skew gearing from the front end of the crankshaft.

A largediameter pipe carries the forced air from the blower to the carburotter, whilst the indurtion pipe itself is also of special design.

Only one carburetter-a Solex-is employed, but Marelli dual iguition is used. The problems of lubrication have been very carefully studied, and the final arrangements embody a fivegallon tank carriod under the radiator, the contents of which is distrifuted by pump. Placed in a position where it cant be kept adequately cool, and being in constant circulation, this volume of oil will enable the engine to work under ideal conditions.

Water cifculation is by pump and there are no fewer than eight leads from the top of the removable cylinder head. These discharge into two separate leads connected with the header tank direct. A reserve water supply in the shape of a kind of saddle tank fitting snugly into the under curve of the scuttle is available, the contents of this tank heing just under 9 pints.

There is a striking lack of elaboration about the engine when viewed from the exterior, and, obviously, many months of patient care have been expended in its design and construction.

The frame conforms, roughly, with the ontline of the complete streamlined car, and consists of very light channel-section side members, braced front and rear by steel rods and further stiffencel by a substantial cross-


A rear view, showing the extraordinary resemblance which the car bears to a shell. Springs, shockabsorbers and so on are all eaclosed by the body.
member amidships. Extra rigidity is given to the frame by the aluminium undershield, which is rireted to the side members from ead to end.

The care which has been taken in distributing the weight emphasizes the thoroughness with which the whole prohlem of constructing this car las been tackled. The engine, gearbox and propeller shaft are slightly desaxe, the object being to distribute the weight correctly, having regard to the fact that the Indianapolis race is rum anti-clockwise and the car has right-hamd stecring.

Both front and rear springs are ellolosed within the streamlined shell, the springs being mounted in small brackols, each rigidly seculed to the upper flanges of the side members. The Hartford shock absorbers also ire enclosed, and an extremely interesting specification is rounded up by the Perrat-type four-wheel brakes. These man be seen in the front view photograph of the car in the left-bnud colunin.

The regulations of the Indianapolis race do not require a passenger to be carricd, but, with an eye to the participation of the car in other events, provision bas been made for a passenger. Ilis seat, however, can lice corered by an aluminium "anel, bent to conform with the general contour of the borly.


Fitting the steering wheel, immsdiately in front of which is the spare water tank. Note the short, upswept engine-bearer arms and the forward oil tank. The front springs are resting across the frame awaiting erection.

ONE of the most unorthodox, yet practical ant ingenious, racing cars. the new Thomas Special, is rapidly nearing completion. It is a $1 \frac{1}{2}$-litre straighteight supercharged ear, and within the next week or wo the component parts will be assembed in the chassis which now awnits their reception.

Mr. J. (x. P. Thomas is responsible for the design, and we were recently prisileged to make a thorough inspecton of the various components of the new racer in the well-appointed workshops at Brooklands where the work of construction has been going on.
l'reconceived idens of racing cars must be dismisserl from the mind in order to view this new design in correct perspective: it is unique and marks a tremondous step forward in cars built solely for very high speed work.

The bore and stroke of the engine are 52 mm . and S8 mm. respectively. The cylinders are made up of separate stecl barrels, each being spigoted, as it were, into the upper part of the crankease. Water jackets


The main features of the engine, showing the four twin water jackets, water pump ard connections, inspection covers ard inlet ports. The supercharger is not, of course, in position.
cast in bairs slide over adjacont cylinders, the cylinders, with their jackets, being clamper between the head and the cranlicase. Copuer and asbestos washers ensure at good joint. The holding-down bolts are of ingenious design: they take the form of left and right-hand threaded studs coupled by sleeves having holes for the engagement of a tommy bar, the principle being similat (o) that employerl for tightenting havy stays or tie-rods.

In marted contrast are the conventional reciprocating CuัS
fints-excent that specially light metals are employed. The two-ring pistons are coupled to H -section connecting rods and plaial bearings are used for lonth the big-ents and the crankshaft journals. No fewer than seven " hand holes " are provided in the crankease-an eighth being fitted at the real off side of the sump.
liy utilizing interchangeable parts, one, two, three or tour carburctters cath be used. There are, however, only four cylinder-head potes on the induction side. lor the exhatust, a separatte port for each eylinder is ( mployed.

There are two (nlip valves pro (:vinder; they are operated by an overhuad camshaft driven by a chain of spar wheels. 'liming adjustments are carried out by a vernier coupling at the rear end.

Water circulation is by pump, a separate water lead being connected 10 each pair of jatcels. The main oil supply is carried in a shallow tank slume hetween the forward ends of the frame members, a high-pressure pump delivering the lubricant to the engine. 'Two scavenging pumps are used to return the used oil to the main Lank, and there is a sepatate histh-pressure oil lead for the o.h.v. gear.

The engine is three-point mounted, the forwarl anchorage being by ball and socket; at the front is the supercharger.

A multiple dry-dise clutch, contained within a cylindrical housing less than 6 ins. in diameter, transmits the drive via a short shaft to a centrally mounted gearbox having a very stubby control lever, the final drive being by enclosed shaft to a double-reduction gear


Surely a unique gearbox and one in which accessibility is a markod feature. It is situated on the forward end of the torque tube.
consisting of a bevel and crown whed and a pair of straight-tooth spur whenls. The axle casing resembles Hat used for an underslung worm drive, and the whole arrangement enables the mopellew shaft to be lept very low

The chassis frame is underslung. At the rear suspension is by reversed quatrer elliptics, the axle casing being above the frame and passing between the two petrol tanks. Of these, the forware tank acts as a direct support for the squab and is curved upwards at one side to accommodate the driver's headrest. Boneath the scuttle dash there is a reserve water supply lank. Suspension at the front is by semi-ellipties, and the axle, of course, passes above the frame.

In general appearance the 1,500 c.c. car will closely resemble "Babs," Mr. Thomas"s 12-cylinder Libertyengined Thomas Special. Thanks to the shape of the frame "stream" lines will automatically adapt themselves to the shapen of the body.

The engine will bobably be on test in a day or two and the ('Ar will be given its maiden (rip) directly the nerassary bench tuning has been carried out.



READERS, NOTE.-It assists the small car movement and the adverliser, and ensures you prompl attention, to mention "The Lighl Car and Cyclecar" in your enquiries.


## Good-bye to Winter!

Farewell to work, to town and smoke. Spring is here and the countryside is calling. Let there be no hint of friction--see that there's Wakefield CASTROL in your sump to ensure sweet running!

Wakefield CASTROL is the first choice of all who achieve feats of speed, reliability and endurance, while in touring use it more than satisfies the most exacting demands of many thousands of enthusiastic motorists the world over.

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Motor and Motorcycle Manufacturers officially recommend its use.
The CASTROL grade recommended for your needs is shown on the Wakefield Recommendation Chart, to be seen at any garage. If there is another oil in your sump. CASTROL can be added, though naturally best resulta will not be attained until $100 \%$ CASTROL is in use. Make the best resolve you have ever made, and
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#### Abstract

We welcome at all times letters sent to us by readers for publication in these columns, and while tahing mo responsibility for the opinions expressed therein, give preference to those lefters which deal with subjects of general interest. Na anonymous communications will be acceptcd, but the writer may use a non de plume if desired. To ensure publication in the next issue, letters must reach this office not later than Monday morning.

We reserte the right to make any alierations or deletions which we deem necessary.


## CYCLECAR AND SUPERCHARGER PROBLEMS.

## Facts and Figures from Practical Experience.

## Conventional Design and-

Once agnin we are assured of the coming of the successful floo car-that very hardy anmual. 1 am speaking, of course, of the $£ 100$ four-wheeler ; there are already threcwheelers at less than $£ 100$. The $£ 100$ -Manufacturing car will apmear in 1926-if it docs Costs. abpear-nor for the tirst time. In most Sliows at Olympia (until 1915) some specimens of its kind have made their appearanceonly to disappear. Theil fate has not been encouraging, but hope is cternal. "I am certain," writes a correspondent, "that a cay to my specification could be made for less than $\$ 100$ and make the fortune of the enterprising manufacturer." IIe is certain, becanse he has never tried to manufacture one.
Now there is no doubt that a threc-whecler can be built more cheaply than a four-wheeler. Therefore, if and when a really adequate four-whecler can be put on the market at $£ 100$ a threc-whecler will appear for something less. At present this has not been found practicable. The threewheler at anything like the same price will alwass be the specdicr and more sporting ruhicle. If cars were handicapped by cost instcad of by horse-power and weight this would be at once apparent. I do not wish in the least to mivimize other advantages held by the four-whecler.

I should be surprised if the big firms engaged in the production of light cars turned their attention to the cyclecar. They bave no reason to make such a change, for they can dispose of all the light ears which they can produce. It is still more unlikely that a big firm will be floated to undertake this business. I should be exceedingly unwilling to take shares in it aud so, I think, would be those gentlrmen who profess so great a faith in the cyclecar. For "the man with a workshop" to produce a few cars by his own labour is quite the most unprofitable job I bnow-and I know by experience.

Another point is that the bay of the unconventional is over. The conventional type has found itself and represents the survival of the fittest. X do not say that there may not arise some genits who will beeak the bonds of convention, but each year his success becomes more remole. Perlaps this opinion may seem strange coming from one who is interested in a successfinl threc-wheeler-not a "ear on three wheels." Is wht the success of the Morgan an argument in favour of the unconventional? Not at all. The Morgan is itself conventional-it is the conventional three-wheler. There are so many on the road and they have been before the public for so lens a time that no ono is starlled hy their ponconformity to type.

I was amused the other day to see a descrintion of a new three-wheeler headed "not tno unconventional." From the point of view of the lionht car it was hiphly unconvontional, but it was so like the Jorgan, at least in
outward appearauce, that it was admitted to coniorm to a conventional type! $\Delta s$ a four-wheeler the Morgan would be a "freak" and I should hare grave doubts of its popularity, bat as a threc-whecler it is as conrentional as the sidecar.
II. George Morgan

## Superchargers and Petrol Consumption.

The numerous letters from sour readers on the subject of supercharging, coupled with recent articles in other motoring journals on the same subject, impel me to state my opinion on this most important matter.

## Fullopower <br> Running.

 As one with some practical experience of supercharging, and a firm believer iu its immediate commercial development, I crave your space to correct some of the misconceptions bred br befogged frequenters of Drooklands on this question.In the first place, there are no miracles to perform to supercharge an cngine up to 6 lb . to 7 lb . above atmospheric pressure. Given a good. reliable, modern engine, made with the best materials. as'all good engines should be. the conversion to supercharging is not so formidable and costly as is generally supposed.

The question of fuel consumption, a most important point, was emphasized in a recent article giving the consumption of the Delage car in the last Grand Prix. This was ruoted as heing at the enormous rate of 7 miles per gallon, the race being run at an average speed of 72 miles per hour.

Such bald statements as the abore, without giving further details, may have a detrimental effect on the derelopment of supereharging for commercial purposes.
To analyse the performance of the Delage cars, it appears that the brake horse-power developed was 130 or more. From the way in which the race was run it is reasomable to assume that this power was used continuously. when accelerating after slowing down aud on the fast stretches of the course.

It. therefore, means that the gallons per hour consumed wero 10.3 , equal to $\$ 2.4$ pints.

On this basis the consumption works out Gf 'pint per brake horse-power per hour, a highly creditable performance for rond racing, and, I would wager, far better than racing without supercharging.

In my opinion, superchargers, as at present being fitted to run at engine speed, will, in future. be increased to run much faster than engine speed, to obtain the full benefit of adequate supercharging on the lower range of engine speeds.

In this manner the hlower may he made smaller and will he less costly, with the advintige of better cooling owing: to the larger ratio of netal to volume on the smaller size, and areater relinhility.
A. O. Lori.

OU゙R READERS＇OPlNLOVS（comta）．

## Spotlights and the Law．

The limit with resard to petty prosecutions for alleged technical offences was reached the other day when 1 was summoned at Cambridge＂for carrying n light which could be used as a searchlight．＂The lamp，a

## A Hopelsss <br> position．

 Stewart spotlight，is fixed to the off side of windsereen，and is positively attached， so that it can－not swivel cither to loft or right．The lamp was lighted only for five seconds at most－ I switched it off before I had seen the policeman was going to stop－me；owing to very heavy rain it was dificult to sec tbrough the screen．I used the light to pick out a cyelist （minus rear lamp，of course），whom I might otherwise have run down．The light was not mored about in any direction whatsoerer．All the above points I mentioned to the over－zealous oflicer， and even called at the police station to explain matters there； it was of no evail，as they took shelter behind the extremely hazy wording of the Motor Car Act．

Eventually I appenred in court，and with the able help of an A．A．solicitor，who pointed out that the sole reason for the introduction of the＂law＂was＂to prevent alarm to horses on the highway；＂I succeeded in getting the summons dismissed．I would like to know（1）whether my light is illegal；（2）whether the policeman had the slientest right， legal or otherwise，to lay hauds on my light（I had already told him that it did not work on a swivel）．

To my great incouvenience $I$ missed an important ap－ pointment by having to go to court．I think it disgraceful that in this enlightened year，ano domini 192G，any motorist can be summarily stopped and imposed upon in this wat Geo．Cyril Browin．
＊The Mator Cars（Use and Construction）Order，1904， －Article II，Section 7 （ii）reads as follows：－＂Every lamp carried by the motorcar when in use on a highway at any time during the period mentioned in this condi－ tion shall be so constructed，fitied and attached as to prevent the morement or use as n searchlight of the light exbribited by any such lamp．＂If our corre－ spondent＇s spotlight complied with these regulations the police would have had no ease against him．We agree that the lar is in need of revision．－ED．

## Lack of Continuity in Signposting．

As I have recently made a journey by road from the West of Scotland to Cornwall and back（Oban to Pen－ zance），covering some 1,500 miles of main rond（and otber－

The Need for
Improvement． wise），and passing through many different types of country and town perhaps your readers may be interested to have wy impressions on the subject of signposts．Leaving Oban，our route lay through Callau－ der，Stirling，Lanarb，Carlisle，Penrith，Kendal，Lancaster， ＂The Black Country，＂Whitchurch，Shrewsbury，Hereford， Gloucester，Bristol，Taunton，Wellington，Crediton，Barn－ staple，Bideford．Bude．Wadebridge，Truro to Penzance， returning vin Truro，Bodmiu，Launceston，Okehampton， Exeter，Taunton，Buth，Swindon，Oxford，Banbury， Leicester，Nottingham，Doncaster，Scotch Corner，Appleby， Penrith．Carlisle，and so liome by Lanark，Stirling and Callander．

Whereas the roads were，in the main，excellent，except between Bodmin and Launceston（over Dartmoor），where the conditions were vile，I was at once struck by the lack of continuity and cobesion in the signposting arrangements in various parts of England and Scotland．For instance， it is far easier to find one＇s way from Stirliug to Lanark and so on to Carlisle than it is to retrace one＇s way from Lanark to Stirling！Going south from Stirling，Lanark and／or Carlisle are given with great unanimity，but，coming noth，one is frequently at a loss as to the right road to take to Stirling，after leaving Lanurk．For，instead of Stirling being mentioned throughout，as it should be，being the key to the North and West of Scolland for the traveller from Carlisle，small and quite unimportant（to the motorist） villages and townlets are indicated，and one has constantly tu consult one＇s maps to see if one is on the Stirling road． And yet，yoing south，it is practically impossible to 80 astray！

Again，in some counties，danger points such as level－ crossines are ignored almost completely－notably in Scot land．between Lanark and Stirling．Farther south，how cwet，things in this respect are excellent

Thon，ajain，whereas towns like Carlisle，Teicester and

Nottingham are easily traversed，other（owns such as Prestou，Wigan，Bath and Bristol need a lat of atteution in this respect，the existing signs being for the most part ＂reticent，＂sometimes illerible，and－oh！so ancient aud bat－ tered！And they are few and far befween．Preston was the chief offender，to my mind，in this respect．Getting out of Bristol，thanks to the splendid A．A．sinns，was easy， but getting into Dristol was a totally different propositiou．

Counties like Leicester and Notlinghan seem to be ex－ traordinarily well catered for by signposts，whereas one needs considerable local knowledge to proceed successfully through parts of Lancashire wichout having to make inquiries，and so losing much valuable time．Jorkshire was good，on the whole．Devon and Cornwall varied in ex－ ecllence．The Penzance district was excellent and the roads were fine there．（But some so－called＂$\Lambda$＂roads are considerably worse than＂I＇＂roads in other counties．）

It is unnecessary to labour the point about signposts． We need more and better ones in many districts，and the mileage should be given in every rase．The A．A．is doing－ and has done－miracles，but a lot remains to be done get． Will not the authorities in the larger industrial towns in Lancashire and elsewbere be fired by the pioneer work of the A．A．，and back them upl by scrapping obsolcte and un－ informative road signs，most of which arc illegible，and substituting new and comprehensive ones？

William S．C．Walker．

## Losing Control on Hills．

From the tian wheu I began motoring I have always been obsessed by $n$ secret dread of precisely the experience that bas just befallen＂Focus＂－that of finding miself behind A Suggested backwards down a hill，out of control． Rule． This fent is almost a nightmare to me at times，so vividly does the situation present itself to my imagination ；and for some reason or other the driver of the runuway car is nlways，in my mental picture，a member of my own sex．This is not because I have ever been in danger of losing control on a hill myself， although I began driving a car when women motorists were rather rare．
Iu my less timid moments I deride the notion that such an accident is at all likely，for it is a long time since cars were fitted with brakes that acted effectively only in one directiou，but＂Focus＇s＂adventure has awakened all my apprehensions．Is there any rule that could be framed to minimize the danger？I think there is，althongh whether the driver of a car who had committed such a fault as the situation implies would have suflicient presence of mind to observe any rule at all is open to doubt．

The rule I suggest is，steer to the opposite side of the road and stay there．（I am assuming that the ear was ascending ou its proper side，the left，and my mule means simply that it will also descend on the left－i．e．，the opposite side of the rond－although it does so backwards．）

If this rule were adopted，following cars wonld hug their left and hope for the best．Sny rule would be better than none－even sticking to the side you are on when the loss of control begins．Following cars would then pass on the right，the only danger being that of mecting an appoaching car descending in the notmal manner，which mipht not be able to null up in time．But do let us have some rule！It might settle a panie－stricken driver＇s doubt as to what to do，and beevent his putting everybody else in doubt by zigzagging from side to side－which is what the erring lady driver alway＇s does in my nightmare．

Mary 1 ：

## The Epping Road．

As a resident in the county，I should like to ask why Essex is so behindhand in matters relating to rond improve ments．For many vears past the Epping road has been n danger to every rond user ；it is very

## Narrow and <br> Dangerous．

 but wider than a lane in many places， but it carries a great denl of tradic，in－ vast fiects of chars－a－bancs．Serving as it does alarge agricultural district，numbers of badly lighted farme carts are often to be metat night，whilst horses and enttle are always being led or driven along it． ind 1 have never yet scen a drover carrying any kind of light． Is it not time，then，that steps were taken to widen this im－ portant but dangerous road？Why the new Southend roal was built before the Epping road received attention $I$ ennnot understand．

S． x ．


## 

## THE SUPER LIGHT CAR



## ALL MODELS-NEW and SECOND-HANDat the OLYMPIA MOTOR Co., 1, HAMMERSMITH $\mathbb{R}^{\text {D. }}$ (opposite)

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CONSUL.T

## C.W.D. CHINERY "GWYNNE" SPECIALIST.

## |и|||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

## Retreading Balloon Tyres.

## Worth While If . . .

* Many readers recently have written asking us whetber we consider it a wise plan to have Vunlop balloon tyres retreaded. $\Delta \mathrm{s}$, clearly, the Dunlop Rubber Co., Ltd. are in the best position to answer this query we asked the technieal depar1ment for heir opinion, which reads as follows:-
"We have your letter of the 2nd inst., on the subject of retreading tyres, and we nffer you the following notes, which we are prepared in liave published if they will be of any service to your readers.
"The question is: Whether retrearling is really morth while? Now, no direct and definite answer can be given to that question from the point of view of the general application of retreading.
"There is no doubt at, all that retreadiug, in itself, is a perfectly satisfactory mrocess which has been well developed y quite a large number of retreading firms and, regarding the job merely as a retread, it is quite satisfactory.
"Unfortunately, erory tyre that is worn out is not neees sarils in a fit condition for retreading in an coonomical n:anner. This is not because the retreading process cannot be conductec, but because in a very large number of instances the cord casing of the cover has been greatly fatigued and weakened during the course of running. This fatigue generally arises from contiuuous running of the sre in an under-inflated state, or from overloading, and bere we may say that probably 90 per cent. of motorescle gres come to $n$ premature end due to errors in these directions
"Unfortunately, it is not possible for the tyre user who is not at the same time an expert in tyre construction to tell whether the casing has been excessively fatigued. In a great number of cases these thiugs can only be discorered after the old tread has been stripped off, and by careful examination of both sides of the exposed casing In such instances it is often found that the retreading process would not be worth while, and the user naturally is disappointed.

Inexpert firms, however, mas be tempted to proceed with the retreading, and the results cannot be expected to be satisfactory in use. Pcople who have had this experience are prone to coudemn retreading root and branch, but such experiences really are not any justification for cordemning the retreading idea.
"In conclusion, it may be stated that : -
" (1) Retreading undertaken at the proper time, and under proper conditions, is worth while.
( 2 ) The work should always be given to some competent firm which specializes in tyre repairs, and its advice should be taken as to whether the retreading would be advisable. The tyre slould not.be run so far that the ton layer of canvas has become visible. It should be takeu off for retreading just about the time when the pattern has worn smonth in the centre
" (3) The tyre should be used at the correct pressure, and not overloaded unless the pressure is materially incrensed to carry the extra load. If this is not done, it is rery unlikely that the casing will be in a satisfactors condition.
"W. Bond,
"For The Dunlop Rebeer Co., Ltd."

## A Thrust at Cyclecar Design.

## In Sarcastic Vein.

May I encroach on your valuable space in order to tell fou of an extraordinary dream which recently visited me? It was to tlic effect that a number of ingenious persons depply versed in the lore and usnge of

An "Untrue"
Dream. motorcycles had put their heads together and evolved a tro-seater motoroar constructed entirely and faithfully in accordance with motorescle practice and principles.
sports four-wheeler built on motorcscle lines:-

1. A front-whee brake which seldom does.
2. Four-inch mudguards.
3. Acetylene lighting outfit (extra).
4. Rain scoan to magneto.
5. Licence holder (extra).
6. 650 c.c. single-cylinder o.h.f. super sports Pandemonium engine.
7. Windscreen (extra)
S. Specdometer (extra).
8. Sports steering wheel.
9. Emergency hand pump.
10. Horn (extra).
11. Flexible-top saddles (extra).
12. Back rests (extra).
13. Petrol tauk holding nearly 2 gallons.
14. Lurgage carricr (extra).
15. Tail-lamp (extra).
16. Non-interchangeable wheels.

1S. Crack-of-dcom exhaust note guarantecd.
19. Strong unsprung chassis.
20. Large expansion chamber.
21. Sliding gearbox aud back axle to facilitate chain adjustment.
2.2. Commodious receptasie for carrying necessary touls, spares, puncture repair outfit, carbide, sundries, cte.
23. Adjustable footrests (footboards extra).
24. Duplicated front mudynard scoop systim (patent applied for) for conducting water, mud and other road filth on to driving chains. cylinder barrel, exposed overbead valve gear and occupaut's legs.

Being more than a little fascinated, and having learnt that the originators had actually placed the result of their effurts hon the market. I hied me to their headquarters in lown hare a look at the thing, which, I was told, would unto have
done following, in conjunction with the accompanying diafrnmmatic sketch, will give some idoa of the many commondable fentures which I found iucorporated in this unique

2j. Aluminium crankease forms part of chassis and takes all major stresses.
I may say, in conclusion, that, just as I was on the point of being inveigled into a scheme of purchase whereby I paid ten shillings down and sixpence per week for ever afterwards, I was somewhat rudely awakened by my man bringing me in my weekly copy of The Light Car and Cyclecar.

Tue Ginfly.

## OUR READERS OPINIONS (contd)

## A Four-stroke Enthusiast-

The thonghtith tone of the letters from C. S. Roscoe and A.Y.S.," nnd their obviously well-informed nature compe Gue to respect the opinions of the writers, but are they not idealists? Mr. Roscoc is cleary Scott enthusiast aud probably has the knowledge, skill and cash to make his engise two-stroke below 20 m.p.l., but

## Two-strokes

how many buvers of cheap eyclecars have these qualifications? "A.IIS." also believes that two-strokes will twostroke at low speeds, or. rather, tuat they can be made to 1 wo-stroke. But why inflict unon us the need for tinkering with a fusse two-stroke having a delicate palate, so far as mixture strength is concerned, and a ketermination to bo oiled with just so much lubricant nad no more, when a four-stroke will do the job better aud use less fuel?

> Dotand-Carry-One.

## Hardwick Hall.

May I point out that your contributor "A.S.," in a recent issuc, was in error in assuming the probability that Mary Queen of Scots was incarcerated in Mardwick Hall ns it now stands? Local tradition is

## Interesting

Historic Facis holoriously umreliahle is erery schoolboy should know-but docs not- the hapless Quecn w:ls executed in 15ST, and Mardwick Hall was not completed until 10 years later, having been started in 1590 . Moreover the modern hall was not inliabited for a centurs after its completion, " the reason being " (to quote Mr. J. B. Firtli, the Noholayly author of " Highways and Eyways in Derbyshire") "that so much space had been allotted to the great galleries and state apartments that there was insuflicient accommodation for the large houschold when the family was in residence."
Doubtless the examples of needlework embroidery exhibited in Queen Mary"s room were carricd out by the Scottish Quecn during her imprisonment in the older lardwick Hall and the numerous other mansions owned by 1he Earl and Countess of Shrewsbury in Derbyshire and Nottinglamshire.
L.E.R.

## Upholding the Police.

Surely Mr. J. Dell. in his letter in a recent issue of The Jight Car and Cyclecar, is going a little too far. As 1 understand him, le adrocates the formation of a elub to Hirow oper-zealous policemen into

## A 12-years' motorists and the authorities but in

Experience. my opilliou mor who get into trouble with the police bave only themselves to blame. During the past twelve years I have been eight times stopped by the police for the following "offences." On a motorcycle: No lights; no rear number plate; open exhaust: driving to the common danger. In a motorcar: No lights (twice) : insufliciently illuminated rear plate; driving to the common danger. Nithough stopped eight times I have only once been summowed, when I wis charged with having an insufliciently illuminated rear plate and fined 10s., including costs. My rule is simple-be civil. Don't try to be smart, sareastic or abusive at the expense of the constable. He carrics much heavier metal than you do.

Ealina Comaron.

## The East Leads the West.

I was much interested at roading that it bas been lecided to use coloured-light traflic signals in London. It may interest you to know that the same kind of simnal has been in use in Shangbai for the past

Motoring
in Shanghai. three rears, and the system is being gradually extended, as it is, without doubt, very satisfactory. In one or wo other things which concern the motorist it seems that he hoine authorities might take a lenf from Shanghai's book. For instauce, motorcars here are taxed according to weight. I pasy (about) $£ 110 \mathrm{~s}$. per quarter for my $10 \mathrm{~h} . \mathrm{p}$. weing. whighs $1,500 \mathrm{lb}$, and I believe if could weigh un ar. 500 l . for the some amount of tax. When I have paid o $1,800 \mathrm{lb}$. for the sam amount of tax. When lave paid the quarter's tax f receive o small coloured enamel disc (different colonr for each quarter) beariug the number of (different which is attached to the number plate, so the poliee the car, whichis without stoping the car, whether I have paid can sec, withe current quarter

Befure I could obtain my driving licence I had to pass an examination in driving, with a police sergeant in the car. As regrads tramears in this eity, at nearly all stops, there is an island or platform at which the trams draw ult and the passengers either wat to embark, of stand on after disembarliner they are not left on the roadway as at home. Other traflic passes between these islands and the pavement with perfect safety, although naturally at show speed
There are between 7,000 and $\mathrm{S}, 000$ cars in this city, all fuming within its boundaries of four miles by five miles, ons there ane hardly any roads outside. The cars are mainly of Americau make because these are sold at a price which s probably 20 per cent. in excess of the price in the U.S.A., while British cars are at lenst 50 per cent more than the horue price.

SHANGHAJ

## CONDENSED CORRESPONDENCE.

A second-hand Trabbot Vight is recommended to "r.A.O." by " G.N. and 'rubot Owner," who says that the Tolbot offers comfort, speed and economy, whilst it is very free from fuss or vibration.
D.C.M., W'indliock, South-W"est Africa, points out in a long and interesting letter that, despite the bad roads in the district in which be lives, smatl British eat's are seen in increasing numbers and are giving complete satisfaction. His experience with British car manufacturers has been that they are conspicuous for "unfailing courtesy and assistance when approached with regard to the ruming of their cars." "D.C.MI." points out that in his ncimhbourhood nearly one-half of the population is German. but that German cars have practically no sale, British and Americau machines being predominant.

## INFORMATION WANTED.

Farc Longmen.-Advice as to where spare parts for these car's can be obtaived will be appreciated.-S. C. Manchanda, Quecu's College, Cambridge.

Singer.-The loan of a 1023 Singer instruction book is requested: also gencral hints on upkeep.- Ш. 'Turner, 5 , Oldbury Court Road, Fishponds, Dristol.

Peggeot.- Private owners' experiences with the 7 -12 h.p. coupe or cabriolet models, with special reference to hillclimbing powers and so forth, are requested. Is gear changing easy? -Estate Agent, Smyrua Road, Barnes.

Salason.-Information with regard to specd, petrol and oil consumption, efliciency of o.h.v. gear and general relinhility of the 19249.5 h.p. sports two-seater will be appreciated.-E. F. Thomson, Keld Head. Stainton, Penrith, Cumberland.
Beeriot- Whimpet.-Experiences with regard to overcoming belt slip and stecring wobble at low speeds are requested and the loan or sale of an instruction book would be a great help.-G. F. Taylor, c.o. J. W. Thomby nnd Sons, Green Lane, $\Delta$ comb, Yorks.

Soott-Socinble.- Enlightenment on the following points is requested:-Does the car hold the rond well at all speeds? Is it suitable for carrying two adults and two children? Can spare parts readily be obtained, and bow does the engine differ from the motoreycle type?-F.D. Ryte, Abbeyfeale.

Rover Eight.-Hints and tips regarding the upkeep of the 1924 model are requested. The loan of back numbers of The Light Car and Cyclecur in which articles relating to the upkeep of 1924 Rover Eights appeared will be very aceeptable.-II. Bowker, 22, Beach Avenue, Whitley Bay, Northumberland.

## HOLIDAY ACCOMMODATION.

## (Readers' Recommendations Wanted.)

Torquay and Bounnemoutit.- Addresses or locnlities of camping sites are reçuested.-Camper, 13 S , London Road, Fur Cotton, Northampton.

Farmonth.-For a fortnight from Junc 10th, for two people. Not necessarily nent const but within casy access by ear Gond piain cooking and moderate elarges ressen-tial,-Perey P. Worsley, 1, Mrafield Avenue, Wrest Ealing,
W.13.


## An EASY way to have your car for EASTER

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 And many others.

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## EN(ALIELBEIET

"CHEVRON CORD" BALLOON TYRES ARE A PHENOMENAL SUCCESS.

# READ THIS UNSOLICITED TESTIMONIAL 

Messrs. Englebert Tyres, Ltd.
162, Gt. Portland Street, W.I.
Dear Sirs,
W. G. Nicholl, Ltd.

50-54. Whitcomb Street,
Leicester Square,
Londop, $W .1$
I take this opportunity of thanking you for supplying me with a set of Englebert Tyres through the medium of the above firm, of which I happen to be Managing Director. I have had so much trouble with the previous set of tyres fitted to my car that I have decided to try a set of your covers, chiefly because the tyres fitted to IMPERIA Cars, for which Messrs. W. G. NICHOLL, LTD., are the Sole Concessionaires, have given such excellent service. It might interest you to know that a set of $730 \times 130$ covers fitted to an $11 / 24 \mathrm{~h} . \mathrm{p}$. IMPERIA demonstration car have now covered 14,000 miles with one puncture and are still in excellent condition. Yours faithfully, (Signed) T. AUBERTIN.

# ENGLEBERT 162, Gt. Portland St., London, W. 1 



We invite readers to sent us hints gained from their own experience for inclusion in this feature. Five shillings will be paid to the sender of any hint published.

## Blacking a Khaki Hood

After long usage a khaki drill hood is apt to become unsifhtly owing to the weather having bleached the material to a different degreo in various places. If this is the case the appearance of the car may often be much improved by hacking the hood, thus disguising any ugly stains.
A satisfactory way of doing this is by applying a solution of drop black and turpentine. Drop black may be obtained from an irommongery or oil stores. and for the first coat 8 oz should be dissolved in $1 \frac{1}{1}$ pints of turpeutine, the blacls being thoroughly crushed to a fine powder before dis solving. A small picee of sponge may be used for applying the mixture. For the second coat a slightly stronzer solution should be used. only one pint of turpentine being added to 8 oz. of black.
Linseed oil may be employed instead of turnentine and nossesses the adrantage of making the hood more weatherproof. It will, however, take a longer time to dry.


The construction of a ball joint, showing the facilities provided for taking up wear.

## Wear in Ball Joint Connections.

When ball joints ure used for the connections between, say, the accelerator nedal and the carburetter, the play which develops in course of time is caused principally by slackness in the joints. It takes but a few minutes to eliminnte it, this being done by removing the split pin and screwing in the plug in the end of the ball housing. The latter is castellated and the split pin should bo passed through the nearest castellation when, after tigiftening up hard, the plug is slightly unserewed.

## Cracked Celluloid

If a crack develops in the edge of a celluloid side sereen it will gradually snread and the screen will eventually lave to be scrapued unless steps are taken to prevent this bappening. The usual way is to cement a strip of celluloid over the crack, and this is ruite effective, although perhaps a trifte unsightly. $\Lambda$ much neater method, if the damage is small, is to drill a smaII hole at the end of the crack; this will prevent it spreading and will not allow any nppreciable nmount of water to enter the car in wet weather.

## Defeating Rust.

Every car owner knows that if precautions are not taken rust will sooner or later appear on the mudgunrds and other exposed parts, unless these are of aluminium or the metal has lieen specially prenared before enamelling. The best safeguard ngainst this trouble is to paint the parts liable to rust with a good anti-corrosive paint from time to time. The finish obtained will not, of course, have such an attractive appearance as a first-class enamel would give, but on brake rods, the under side of mudguards and so forth this is not of primary importance.
Rust should never be allowed to remain on any part of the bodywork because it cannot be readily seen: it will gradually spread under the adjacent enamel, causing the latter to fiake

## Qucries of general interest will be answered under this heading whenever possible, but a stamped addressed envelope must be enclosed for reply by post. Telephonic inquiries cannot be answered.

T.U.A. (Leamington Spa).-The size of a Zenith jet is stamped on the face of the flange ciose to the squared boss on to which the key fits. A 75 jet is smaller, not larger, than an $S 0$.
R.W.McD. (Edmonton).-Some of the most common causes of brakes failing to come oft, which you should investigate, are as follow:-Partially seized brake camshaft, broken pull-off spring, cam moving almost to dead centre point-in tlfe ease of cable-operated brakes-or lack of oil ou the joints of the brabe gear.
off and leave unsightly patches. For this reason it is a good plan to keep a pot of quick-drying enamel in the garage, so that any scratch may be touched un before the metsi has time to rust


Successive stages in the maling of a drill from a steel knitting needle.

## Emergency Drills.

Very useful drills may easily be made from stecl knitting needles. The ucedle should first be softened by heating it to a cherry red and allowing to cool. A section about 3 ins. long is then cut from the parallel centre portion of the needle and one end heated and hammered flat until the width across the widest part is just larger than the diameter of the hole to be drilled. By filing or, preferably, by 天rinding the flattened portion is then made spearhraded and the cuting edges may be formed. The successive stages are depicted in an accompanying drawios which shows also an enlarged riew of the end.

The drill should be hardened and tempered by heating to a cherry-red and dipping out in water, then polished ols nne face and the temper "let down" by holding the drill in a bunsen flame until the brinht surface assumes a dark straw colour shading off to light straw at the cutting edges. Directly these colours appear the drill must be quenched in water and it is then ready for use.

T.L. (Covertry).-The rattle which cecurs when braking or accelerating in your Swift car mas be caused by a broken spring at the frout end of the torque member.
N.G.E. (Gravesend).-Special B. and D. stabilizers are made to fit the Mor:sau rear-springing system. Fou can easily fit them sourself. They are anchored to the brackets of the quarter-elliptic springs and to the chain stays respectively.
L.E.W. (London, N.W.6).-The persistent squeak which you kear when your Jowett is running over mugh roads mas be due to movement of the bonnet. Appls blacklead to the strip on the scuttle on which it beds, also to tho little rubber buffers at the rear cormers of the bonnet, and we think you will find that the trouble will disappear

## 1N ANSHERTO TOUR QUERY (contd.).

IT.A.V. (Chelmsford).-The squeak which you hear, principally at low apeeds, coming from the engine may bo Tue to a dry valve guide.
(A.A. (Darlington).-You are quite sale in driving your ear at night with (inly the off-side lamp nad the tail limp burnins, excepting in the counties of staford and Glamorgan, where lncal by-haws require the use of two sitle l:mpss showing the full width of the velicle.
A.C. (Lincoln).-It is quite an easy matter to illuminate the interior of : mouring $t$ wo-seater at night. For a few shillines you can obtain a festoon lamp. which can be fixed to one of the hood sticks, the flex being carried nlong the srick by insulated staples. The light chetained by this means should be enough to illuminate the mstruments ou the facia boarrl.
G.M.I. (Loughborough).-As the front whel ball bearings of your car are of the ordinary journal type there is no adjustment for wear. You are evidently thinking of the taper-roller patterv which can be tightened up.
D.S.WV. (Redhill).-Merely clenning out the foat chamber from time to time is only half doing the job. The plugs below the jets should be taken out and cleaned, as they are designed to trap foreinn matter. The filter below the float chamber also should be cleaued.
G.M.C. (Taversham) --.The itlea of using frost plugs iu cylinder water jackets is not new. These usually take the form of brass plugs linving centres made of copper dises which of course are relatively wenk and yield first in case of frost. One of these plugs should be usert at each end of the jacket or where there are low-lesel points: it solitary frost plug obviously will not gunrd places where water is likely to get trapned.
I.C.V. (Aberdare).- $\boldsymbol{\Lambda}$ coil ignition unit to replace $\Omega$ magneto can be obtained for the majority of light cars. This consists of a coil and distributor mounted on a commou base.
L.M.M. (London, W'.(i).-IBoth the gearbox and rear axle of your A.C. are lubricated by the oil poured in through the filler behiml the axle. You will find that seven pints will fill the casing to the poper level-that is, up to the filler cap. Use gear oil for this unit.
G.G.K. (Elehatn).-The most simple way of restoring the efficiency of a worncut Jowett transmission brike is to fit n new band entnplete. IRelininer demands more skill. The jol) is best done as follows:-'I'ake nut the noorboards and pull out the split pins which keep the band in place on the operaling shaft. Slide the bind off backwards and slip the new one into place. When fitted do not overlook the need for obtaining n proper pectal setting in relation to the on " position of the new band.

## CLUB ITEMS AND SPORTING EVENTS

## STAINES MOTOR CLUB

The recently formed Staines Notnr Club held dis dirat iocial crent on March 7th. when
 dicnicy being mado by members. Tho clubs firs competitive event will lake tho form ol a tren Gure buut. Which will be beld on March $28 t h$ Gtaring from the Market Square, Staines, at $2.30 \mathrm{p} . \mathrm{m}$. The nnnual aubscriptian of the clul particulars of membership can bo obtaincd from the hon. secretary. Mr. A. L. Losell. Migh Sirect W'rayebury. ncar siainc.

SYDENHAM CLUB'S HILL.CLIMB
The Sydenbam and District Motor Club's hill climb will take place on March $28 t h-n \pi t$ on March 24ih, an annolnced in last weck'a friuc. The event will be held on a prisate hill withly 20 miles of London. and classes for all tynce el motoreycle and car will be run. Tho A.J.S races lant ycar will bo employed in order tha epeclatora may be kept intormed ol tho pro ceedingr. The cloaing date lor cnerics is Mon day, March 22 nd. and motorista intereated in secrelary of the club. Mr. C. L. Smith. 1 ly drell Road, Brockley. S.E. 4

## TO CLUB SECRETARIES.

Reports and announcements intendid for inclusion in next Friday's issue of "The Light Car and Cyclecar" mus: reach us by the first post on Tue: d $2 y$ morning.

## EALING AND DISTRICT M.C.C.

The Ealing and District Mozor Cycle Mab' crenth annual London-Molyhead Trial $=111$ bo held on April 30th and May 1 st. Tho car tass ${ }^{2 s}$ open to menbers, nind motortsts who nitend to join the club 60 that they may take iwioro ibe date of tho erial. The alart whi Le from the Berkeley Arms Motel. Cranford iridge. Middlescx. at miduiphe, and tho ronto linirles clone first post on Batirday, April pass nery forma and full particulary belug ofth


## SOUTH MIDLAND CENTAE A.C.U

$A$ balf-day rellabllity erial fire the Invitatlon Notor Cycling Club, and is open to merondon clutia anliated to the South Alomiand Cenero of tho A.C.U., drirors of motorcyeles, thriceWheclera and cars being eligible to compele tarline and finishing of Saturday, March 27th etarling and finishing at tho led Ildun Jlowed. ficld at 240 pm . and the routc will lonve llat in corcerd numbiop throughoute, which must milea in length. Entrica which closo firte poit thencoriay. March 24 th. should be eene to 8. St Gcorgod Road, Forty Illl, Enfeld. B3S

## ROYAL AUTOMOBILE CRUQ'S GENERAL COUNCIL MEETING.

The gencral council mecting of the R.A.O will tako placo at the R A.C. Pall Mall. Lon hen rocancics on the assocrate commill bo flled.

## ORTHCOMING EVENTS.

March 20
Kent and Susser L.C.C. Nally
Coventry Trinnglo AC Ituq to Bas B. I. Cll.C. Opening Membera' Mcelng. c.c. Brookinds.
C. Opening Erent. Murlord Bridene Southport Mic. Raco Mceting.
dard Cycling and Athlelic Club Yorkshíro Centre J.C.C. Slow Hill
Oatlord nigd District M.C. "Machelors'

Marelı 21
fory-on-Argon Monohes
tion Ran. Catford and Ran

Mel Mocial Rup
Morgan M.O. March $23 . \quad$ Dinger and Dauce.
March 25.
Belaize- Bradshaw L C.C. Soclal Ficuine. Mareh 27.
Medditeh MO. and C.C. Reddlteh Coventry Trínaglo M.C. Run to Yarn Surbitongal.C. Common. Dance.
Surbiton M.C. Dance. A.C.U. IVall daj Trinl.

Morgan Mt.C March 28. ydenham and District N.C. Hnll-climb bley and District at Trial mhiford and Districe M.C. Social Run. Public Schools M.C. Route-Gud!ng

Eastern Centro April 2. C.U.
Championalin pril 2-3.

Scarborougb aud District M.C. Easlcr Tria

## Aprll 2.5 .

Oozelum MC. A:3ster Tour 10 Lynton Aprli 3.4. Nellabllity Hochdaln and

Aprli 5.
A.k.C. Faster Mreting at Iroohlands iarboroukh and District $\mathbf{N} \mathbf{C}$. Sport ing Trial.
R.A.C. PERMITS.

Tho following closed permits bavo recenlly beon ssucd by the 12 . A.C. Mirch 20 th. Miclland Cyc ing and Athletic Cluls Trial, Mnich 28th. Ilkicy and District M.C. T'riali April Sral. ipmwleh April geh-10ih. Liverpool Norlolk MC. Trial 24 Mlour Walah Trial: May 2lat-24ib. Liveriool MC. Sootliab

## EASTERN CENTRE A C.U

The championship and Inter club trial of the Eancern Centre of tha A.C.U. is beinif orkanlzed $y$ the Ipswlch and Districe Molor Cyclo Club תत tho Noriolk will take plare on April 2ad, la open to motor scolo Inn, on the lpswich-Normich main road is the slarting polnt. the firat compctitor leav ng at 11.1 am . Tho event will bo run over non-shon twice, making a hotal diatanco o approximntoly 60 mllas. Lunch will be acrere at Yo Oldo Scolo Inn nt 1 pm .. nnd it is hoped thot all competitors will be able to sil down to the meal together. Entrice close on Jowliursz. Shrublands. Cauldwcil liall. Rasd Jpswich.


Enthusiastic amateur (selecting
bis "lubricant"): "Er-waiter are any of these -er-people paying bonuses on this event?

## J.C.C. SPRING RACE MEETING

Tho Junjor Car Club's epring race mecting H7th, racing lieginning nt 2 p.m. The follow ing races will ho run ofl during the mecting:750 c c. bhort handicap. novioca haudicap lior cara up to 1,500 c.c.), bhort bandicad (for 1,100 c.c. 1,500 c.c. cara). dinabled drivera bont handicap, long handicap lior care up to 1,600 c.c.l, atarling nind stopping raco (lor ear up to 1.500 c.c. other than racing modela) and tho grand 50 -milo handseap (lor cara un
 tho Juntor Car Club, Clock IIouse, Arundol Alract London, W.C.2. Lato ontrkin, at double April 9th.


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## AROUND THE TRADE．

In the recent Victory Cup trial enrs filted with A．C． phugs were suceessful in gnining 5 cups and 15 gold medals．
＂Potted Praise＂is the title of a lenflet issued by Sammed Banner and Co．，Ltd．，34，Castle Street，Liverimol，and dealing with their Oak motor oil．

The price of the Brook Super Sparker and Magneto Tester，which was described in our last issuc，was d⿴囗十ted ля $£ 1$ 12s．Gd．This price relates to the six－cylinder model， the four－cylinder type being priced at $£ 1$ §s．

We are informed that F ． $\mathbb{W}$ ．Lucas（1022）．Ltd．， 240 ， Brixton Hill，London，S．W．2，have installed a specinl plant for cellulase spray painting and are in a position to carry out all classes of repainting under the new process

The makers of Solex carburetters are，sas the result of the rapidly increasing business，building new works at Mary－ lebonc．The new works，which will probably be ready for ocenpation in June，will include a fitting and service station， with accommodation for 100 cnrs．

The special trial order diseount hitherto allowed on Gutta Percha cord tyres is shortly to be withdrawn． Dealers will also be affected by the new arrangement．F＇ull particulars are obtainable from Giutta Perchai and liubber （London），Ltd．，30－32，Bolsover Street，London，W．1．

Uaving outgrown their present establishment in Paradise Strect，Birmingham，due to continued expansion of business， the British Thomson－Houston Co．，Ltd．，have acquired commodions new premises in a central position in the city． On nnd after Monday next their address will be 10 and 11， Snow Ilill，Birmingham．

An interesting group of films has been shown by the Champion Sparking Plug Co．，Ltd．，in various works and motor sales premises recently．Two reels illustrate the various processes commected with plug manufacture and others portray the many 1025 racing events won by Champion－equipped cars．

Mr．Frl．J．Mnedy，chairman of Ed．J．Hardy and Co． Ltu．，who are well known in connection with Hardy flexible joints，and Drr．Joseph J．Oldbury，managing director of the concern，bave returned from a visit to the United States， where they have acquired the sole manufacturing and sales rights of the products of the Spicer Manufncturing Corpora－ tion，of South Plaingicld，New Jersey，and Potsdown，Pa． The latter concern has specialized in mechanical joints for many years and，in addition，is making new types of oil－ retaining mechanical joints and flexible couplings．


LICHT CAR PROVERBS．－No． 11.

The winner is
Mr．E．Crolt， 69．Ronald Park Ave．， Westcliff－on－Sea．

The prize of £1． 1.0 will be sent to him in due course．His proverb is quoted below the suljoined drawing．
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Trbitration of tho Editor of \(\boldsymbol{T}\) TIEE LIGHT CAR AND CYCLECAR.: whose decision aball be final and blading on botb partics.
WARNING...Acknowiedgments of depositn or tastructions to tormard beara a facsimilo of tho title of this journal. To prevent traud, tho adver tiser ahould ACKNOWLEDGE MMEDIATEEX Y any uch letter appargntly coming from us, and dolay forwarding the koods for a day or so.
 been sali
advertlacd.

\section*{closing rime.}

Conv for and all matter relating to advartlscments must reach our
 avenue. foundon. E.C. I. If proola of diaplayod ansertiacmenta are reabired. copy whould bo lorwerded in sußicient timo to allow of it belng ubmitted and returned
Hoad Omecha:-7-15, Roscbery Arenue, London, E.C. \({ }^{1}\) Telephone
 Jthor Bualnens and Editorlal Noticea and Subscription Ratos will bo aund ithe cad of this section.

\section*{itorice}

Owing to pontal delnya nnd irregularitiea \(i\) - is advisible to pos advertisemonts EARLY ON MONDAY io an to ensure, an far na povsible thet they rench us by the FIRST POST on Tuesday, eralunion alihnough derpatched on Monday.

\section*{SECONDHAND \\ LIGHT CARS AND CYCLECARS FOR SALE}
 A.E.C. A.B.C. Motors, I.td., Wallonon-Thamea. Consult as first beloro purcbaning second-hand cars. Wing haro always sercral in stock. recondi-
lioned. with which we give our usual guarantec.
A. B.C. 1924 super-sporta 2 -seater, \(£ 275\) model, streamline bods. disappearing hood, lateat roller-bearing enging with ump oiling. pertect

A. B.c. 1926 stwer sports, brand new "cquippea"as "per makers" speci-

1924 A.B.C. sports, dynamo lighting, very nmali milcago. suarantecd 1922.23 ^.B.C. sporis, Gordon Enfland racin type body, oulside cup
 1922 A.B.C. Regent, dynamo lightlog. 2door hody, and dickey, greane-
 bood, Food tyres. excellent condition troustout, 70 suincas. Breens. Bood elass condition thronghout, taxce. 45 guineas. Biclow.
Ward and Co., 51 Upper Richtownile Rul., tast Putncy Phone, 2818.19 ,

1922 (1ate), sports. double windscreen, glas side icrecns, many extras as \(\mathrm{DCW}, 49\) gns. 111 Git. Porlland 8t.. W.1. Phonc, Lengham \(\frac{1212 .}{695}\). A.B.C. Always 50 nsed cars in steck, Including A.B.O. Nll backed ty our well-knoun guarantec. Eachanges or delerred terma. Tho Light Car Co., 404-414 Euston Rd., London. Phonc. Museum 3081. A.B.C. aports. 2 -zcater, very fant, 550 . deferred nasments, exchanzer. tased. 232 Brizstock Rd., Thornton Heath. A B.C., 1922. 2-seater Reselt madci, subken dickes, dsnamo lightine, clectrio horn. fulf danb, extrmely nice appuarance, fuaranteed. E65: ayother. 659 . Exchanges, terme. Kirk and Co., 22 Praed St.. Prad.
dington, W.2.
A.B.C., 1922, Regent bluce aluminium wheela C1 eylinders. Specialhoids. clock, atarter. Fartiorda, special undershleid and comperition gear-
 Carburation. What offers? Box No. 4053. c.o. "Tbe Light Car and A.
B.
c.

Iatest model super aports 2 -seater. with streamino aluminium body. ordinarily hast and reliable 2 -seater. And other accelsories an extra. Lateg model Ma abore, ncary ncw.
ayfoir 5906.7.
A.B.C. 1924, super aports \(£ 275\) model. streatiline body, disannearing hood, roller bearing englne. sump lubrication small milleage and in nc: Rd., Leeds. A.B.C. aporti. 2-scater, bluo finish, alvminium boonct, carefully orer-
 A. B.C., \(555 ; 1922\), Sporte, dickes, flared winge extras, taxced. Den-
A.B.C., 1922, 2-sceter, dickes. Regent, in good condition throughoat. nol

A.B.C., 11 hp . sparts. Aprib, 1924 , low milcage. tyres, paintwork, uphol-
 A.B.C., 1924 Regent 2 sester, sunk dickey, superb coailiton, 75 guinea. A.B.C., 1923 Regent zseater, sunk dickey, excellent condition, 70 Guiners: exchanges or
W.1. Maylair 6977 .
A.B.C. A real anip. Sce page \(73 . \quad\) 695-651
A.c. Aocicl 122 l p Royal 2 -seater, specially finished wainut grain. Ono of tho smarteat A \(\mathrm{O} . \mathrm{s}\) on the road and in absolutely new condition.
 \(695-419\)
A.C., 53 gulnens, 1919 , 2-scater, dicker. drnamo lighting faxed, very
 A.C., 1904. 1 Thp. 4 seator, painted grey, only run amall milleage and almoat equal to ver. 2195. Newham Motor Co., \(243-5\) Hammersinith
 A.c. Always 50 oned cara in stock including A.C. All becked

A.C., 1921 Roral. just orerbauled, heaveliful condtion, reads 1695 an im.

A.c., 1 O2A, Moyal 11.4 hn , 2 -waler and dickey, Markes stcering. in exceptionally nico condition throurhoti, any examination. taxed. fil65: cx


\section*{SECONDHAND \\ LIGHT CARS AND CYCLECARS FOR SALE (continued)}
A.C. 2-senter, 1920.21 dynamo, clock, eperdometer, nll-weather equipA. 1924 4 4 alloon irtcs rich
 jpmearance, taxed. \(£ 175\); cxchanke or termat Chester Mighall, Led.,
 A.C., 95 guinens. 1922 , Roynl, 4-seater. Jully equipped, excellent condition. Vivian. 33 Spenser SL., Víctoria St., 8.W.1. Vlc. 8677. 695494 A.C. 192511.9 Royal 2 -senter. sunk dlekes, completely enuipped, hiallow. A.C. 192511.94 -seater, completely equipper, antique leather upholsters,
 A.C. Ilarold Simens for harö́aina. Sce "Mincellancous Cars." 695-782 A.C., 1923 , \(11.8 h \mathrm{p}\), Royal 2-senter, repainted, perfect mechanical conMeCarthy's Motors, 49 Gieen Lanca, Newineton Green, \({ }^{\text {N }} 16\). Clissold A.C. A real inip. Sce page 73.
695.652

ALBERT car overhanale; gnaranterd eure for oiling un; bodywork nnd ren Gwynge Cars hid manulacurern of Guyn

 ALRERT, 8801921 4-Reater, 2 aparn whecla smart and fast only antuaceipg. Forcman, 83 Blackheath Rd., S.E.10. 695-r100 ALRERT, 1921, 12 \(1 \mathrm{n}, 4\)-specd, 4-aeater, fill electric equipment, good n-on-Thnmes.
\(695-\mathrm{r} 22\)
ALBERT, all-wenther. C68. Ilarold Simons for barógains ALVIS. Alwave 50 uece cars in ntock, including Alvis. All backed
 ALVIS. €95. 192111 hp 2 -acatcr, double dirkey, startmr, ncedometer, 695-r98 ALVIS, 1923. wnper sportw, aluminium 2-eeater, rery fast, C 195 : deManchester. Cent. 8539 .
AMILCARS. Phone, 1995 Putney.
AMILCAR spares.
AMILCAR serrice.
Vernon Balla,
25 Iligh St., Fulham
AMILCAR, 1924, sports 2 seater boat beds, elf0, any trial, at Fernon AMILCAR, 7.6 hn, Lourer, with 3 montlis' gunrantec. 285 ; this car has fust been painted: aly trial. Vernon Balla, 25 IIIch St., Fulham \(695-510\)

\section*{AMILCAR.}

Boan and Porter. Ltd.
ole concesslonnaires.
\(\begin{array}{ll}1925-2.6 & \text { Grand Sport } 2 \text {-seaters, choico of } 2 \text {, from } £ 200\end{array}\)
1926 Super Sporta, 2 -scatcr, small mileage, \(£ 185\).
Deferral lemmend exchenges
 AMILCAR, Grand Sports, 1926 model, practically new, many extras,

AMILCAR, Grand Sporte, 1925 model, small mileage, exceptionally good AMILCAR, frand Sport, will drimothis car any rensonahle diatanco for trial and inspection. Samuclson, Staplefields, Steyning. Sussex. Phono,
fiMILCAR. A real enlp. See page 73. 695.654 ARIEL 9, 69 cuincas, 1923 chummy, dynamo lighting, ecll-starter, taxed, miany exira fitlinga, one owner only, na new: exchanges, delerred. Empirc
Motora, 325 Iligh Rd. Chinwick, w. 4 . Phone 303 . \(695-678\)
ARIEL 9, chnmmy, late 1923, taxed year, balloon tyrea, excellent order,
\&65. North Staflord Garage, Shone Md., Stallord. ARIEL 9, 1923, chummy, perfect \({ }_{4}^{\text {rigid side rumbaing, taxed: delerred }}\) Regent 986. Ah Aotor Ascacs, 4 Denman Place, Piccadilly Circuil. ARIEL 9, 1923. chmmmy, inlly enuipped. dy口amo. excellent condition, 65. Enincasi oxchanges or defarred. Edwards, 175 Gt . Portland 6 . 695.746
W. Maylair 6977 . AusTIN, \(7 \mathrm{hn}, 1925\) model, speedometer, clock, daby amp, radiator cosy, large tyrea, lull 1926 equipment but Letter, car like new in evory uay,
filf. liryer, Dove Wark, Uttoxeter.
AUSTIN 7, new and seronilhand medcla in atock; part exchanges and

AUSTIN 7 acrife station. Open to all ownera et thia fomous model. Full range of splarea carricd. Beveral eccond-hand cars in alock. Hlours ham Junction, S.W. 11 (2 minutea from slation). Telephone, Latchmere
\(\mathbf{K} 360\). AUSTIN 7, 1926 demonstration model, taxed. £130. K.J. Molork,
30 Widmoro IRd., Bromley. AUSTIN. Alway 50 used cars in stock, including Anstin. All backed


\section*{SECONDHAND \\ LIGHT CARS AND CYCLECARS FOR SALE (continued).}

Austin. Spresen, Tid.. for Austins. Exchanges, delerted.
 Austin, 7 hh, 1925 , sunerb condition, smnll milenge. nbsolutely no
 Austin 7 hp \({ }^{\text {Iate }} 1925\) chummy \({ }^{4}\)-seater, kingificher blue nahtras.
 AUSTIN \({ }^{7}\) I lato 1924 , taxed ontil 1927 , inspred, enlendid condition, AUSTIN 7, 1926 mileazo 950, guarantecd nerfcel condition. 695




 AUSTIN 7s, choice of Lwo. 880 and 285; deferred pasmentse exchanges. AUSTIN 7, \({ }^{1925 \text {. choico of Lwo in exceptionnlly nice condrtion-594 }}\) AUSTIN 7, 1924.25 chummg 4-scater, self-starler, all-weather oncedoferred payments. 21 Pennant Mows. Earlis Court 6684 Weaterp AUSTIN, 7bp, 1924. largo body self-starter, shock alsorlers, nearly
 AUSTIN 7. Soutb Ealing Garafer 1925 chummy, starter, many extrar, AUSTIN 7, hporls, Burghley hoily, concealcd wood and epare wheel,


 Austin. A real snip. Sec page 73. 695-653



 Austin 7, 695 r 120
 AUSTIN 7,1925 model, condiliton as now. \(1115 ;\) also 1924 molel,
 ham 1 ज̄०7. 695-798 AUSTIN 7, 1925 (lantol medel, only done 5,000 miles 1 axed December,



 AUSTIN 7s. Several 1924 and 1925 modols in stock, condition ale new Rmall mileages only, 1rnm £95. Pickworth and IIull, 107 GL . Pritland
St . W.1. Longham 1998.
6954 AUSTIN 7, lato 1924, family model, staclally painted dark violel. in ex cellent condition throughout, \(£ 100\). Wilson, 7 Eccleston 5 St. Vintoris
1366 .
\(\mathbf{6 9 5}\). 677 AUSTIN 7, 1923 , tyres nearly new. in nico condition, price 275 , motor cycle in part payment. Longman Bros., 17 Bond St., Eallog. G95.719 AUSTIN 7, 1924 , chummy, palnted blue, oversizo tyres, spare unused
as new, f93. Mombery. Young's Corncr, Mammersmith. AUSTIN 7, 1923 , chummy, in beauliful condition, laxed year, ncarly AUSTIN, \(7 \mathrm{hp}, 1923\) canital condition, ready for any work, rigid side acrecns and good equipment, £75. Frser, Dovo Walk, Utoxeicr. 69641
AUSTINS, exchanges, delerred payments. Two 1923 Austin chummies, 7 lip, dynamo, ade screcne, front whecl braker elcctric horn. spare whect fice condition, \(£ 85\) each. Seabridge, 35 Maniler Rd. East nulwich AUSTIN 7, 1923, dynamo lighinge, clectrio horn, automatio windscreen Wher, tyres, hood and upholylery good. Sarl.h. painted blue, taxed, har A.V. Licars, in ayiendid condition, 228 each. A.V. Motore
A.V. runabouts, fully equipped, good running order, from \(\boldsymbol{e 2 8}\). A.V Motors.
A.V. Motars for deferred terms and exchangen. Writo for fill list and A.V. Motars lor deferred terms and. exrbangen. Writo for full Mint and
particulars. A.V. Motorn, Park Idd., Teddington. Tclephonc, Kingaton
710 .

\section*{SECONDHAND \\ LIGHT CARS AND CYCLECARS FOR SALE (continued).}

BAYLISS THOMAS, 1925,45 -senter tourlng model, supplled for und by
 BEBE PEUGEOT, \(\bar{s}\)-specd nnd reversc, dynamo linhting. 5 lamps,
speedomelar, 5 tyres and genoral condition as now. 240 . 21 Grove
Mul lRd. Cirmberwell.

 BELSIZE.BRADSHAW, I922-23. 2-seater, dynamo lighting fully
 BELSIZE.BRADSHAW, lato 1922 , thoroughly orerhauled, new hood,
dickey. dit
Trburgood, 114 Worple Rd. Wimbledon.
\(695-\mathrm{p} 983\) BELSIZE.BAADSHAW, 1.922, coupe, self-slarter, dsnamo lighting, sparo
whecl, Inns splendidly. King, New Ild, Oxtord. BELSIZE.BRADSHAW, 1922 , 2-smter, taxed, ineured, beantiful conditlon threnghout, trial. 557 . Whkinson, 18a Ramses Rd., West Hendon, BELSIZEBHADSHAW. Harold Stmona for bargains. Sea " MiscellaBELSIZE.BRADSHAW 1023 Shp coupc, lickes, completely equipped,
gharter, apectometer, excellent condition, 65 guincas. Below. BELSIZE.BRADSHAW 1524 coune, equippeli, as abore, excellent condl
tion 78 gume BLERIOT, \(1920-21,9 h p\) Blackburne, fall equipment. speedomever, electric, acetvenc, new accumulator, very good order, iaxed, \&14; otiers.
Root. 16 Moflef IVd, Bowos Park.
 BLERIOT.WHIPPETS, 1923 and 1924, 2-seaters, 8hp, electric lighting,
 BLERIOT-WHIPPET, 1920 2-scalcr. 9hp Blackbarno engine. sparo Lerma. Wandsworth Motor Exchange, Ebicr St.. Wiadsworth (rown
 B.S.A., 192.5 , Shp, 2-scater and dickey, self-starter, dynamo lighting,
 \(\begin{array}{lll}\text { BJSA. A real anip. Seo pago } 73 . & 695-663\end{array}\) BUCATT: Niways 50 used cars in stock includlag Eugattl All backed

BUCATTI, 1921 eloperlea! J-scater sports, oxcoptional condition, very fast, bargait, si25: exchankes deferred payments. Farker"s. Lid.
Bradshawnate, Hollon; also 246-252 Deanskate, Mavehoater. 695-415 BUGATrí, 2 -scoler, ennine orerliauled, newly painted erey and red,

 CALCOTT, 1923. 10hp, 2-seater, dowblo dlekey, starter, all-weather, epecial bargain \(f 94\) 10月.. cash or casy paymenta; oxchangos. Wuking,
Simpson, opposito Oiympia, London.
\(695 \cdot \mathrm{rl} 182\)
CALCOTT, 1924, 10.51 p , 2-scatcr, sclf-starler, all-weather onupinent, petrol cauco dashlamp, petrol can carrier, sercen wiper, aluminium son, opposite Olympia. London. CALCOTT, 1925 , 1 Ohp, new \(\begin{gathered}\text { 2-seater, full guarantec, f185. Cleverlys, } \\ \text { Litd., } 175 \text { Cleveland St., W.1. (by Gt. Portind St. Station). 695-806 }\end{gathered}\) CALCOTT. A real anip. Sec pago 73. 695.656
 CALTHONPE, 10.9 hp , 1922, Mulliner body, 4 -seater, sforter, lighting, perfect condlion, just overhauled, \(f 65.78\) Calabria Rd, Migbbury.
N.5.
\(696-\pi 662\)
CALTHORPE, 12 hp 1914 2-scater, dickes, sood condition. splendid Manning nrder, cl. accept \(£ 30\) cash. Marringtod. Fourwasi, Croham
Manor Rd., South Crosdon.
CALTHORPE, December. 1922, 10hjs 2-scater, doable dickey, self-starter, full electric lighting. licensed to end of sear, recentls overbauled, Derfec order \(£ 100\), or first near offer. 'Phonc. Cbiswick 2973 ; any test. can be
scen Kew Gardend.
CALTHORPE, A Teal anip. Sco page \(73 . \quad\) 695-657
CALTHORPE, fys, oxclianges, delerred pasments. 1923 de luxa semlcoupe, doublo dickey. 10.4 hn 4 Epecds, lightug, starter. sparo wheel specdemoter, painted saxe blic, black wings, antloue
tremely smart, excellent condition. Seabridge. Below.
CALTHORPE, 265, exchanges, delerred pasments. 1920-21 4-seater liphtug, starter, nll-weather equipmonl, excollent condition. Seabridge
35 Hansler 12d., East Dulwich. Sydenliam 2452 . \(695-759\)
CALTHORPE, \(10 \mathrm{hp}, 4\)-scater, 1903 model, in excelteat condition, f95
CALTHORPE 1924 I20 equiplicd, reliafnted, oxcellent condition, 110 guipes. Below. completek
CALTHORPE 19222 sealep de luxe fully cquipped. fited coupo heod, Maytair 6977.

\section*{SECONDHAND \\ LIGHT CARS and cyclecars for sale (continued).}

CALTHORPE. Harold Simons for bargalns. Seo "Miscellaneoug Carx " 695.781 CALTHORPE, 1925 , do luxo 4-soater, 10 hp . gtartor and lighking, full milcage, jdoorment, indy in wirnost, brand-now condition throughout, fillu cash or deferred. Naslors, 45 and 406 Garratt Lano. Earlsficld. CALTHORPE, 55 gulneas, 1921 . 4 -scater, sports, starter and lightinge,
 CALTHORPE, 63 guineia, 1921, 4 -scatcr, in extra-good condition, light-
 CALTHORPE, 73 guincas, 1922-23. 4-seater de luye, double screen, changes, deferrof. Empire Jotors, 325 High Rd, Chiswick, wex Phone 'jo3. CALTHORPE, 10hp, 2-seater. rers, elean: terms, 28 and 10 monthly


CARDENSI Cardensll Cardenslli Thp, 2 scater, slae-by side seating, completely equipped, from \(£ 18\) to \(\boldsymbol{f} 25^{\prime}\), deficrred terms. exchanges.: many CARDEN, 1921 (hate), 2seater, 7hp, astal cquipment, overhauled and
 Kingston 2562. CASTLE 3, 3-wheoler, 4-cglinder water cooled englne, \(\overline{3}\) speeds, reverac,

 SITROEN, 1925 , 7 hp , 3 -soater, balloon tyres. Boycemetcr and wings, tools. small mileanc. splendid condition, x95. 50 Warwick Rd.ës-r58 CITROEN apeciallsta and distribators. New and second-hand cars Garage. Phone. Hendon 1023 . citroen. Almaya 50 used cars in stock, including Citroen, all backed Car Co., 404-414 Euston Rd., London. Phone, Museum 3081. 695-539 CITROEN 1925 Thp 3 -seater, dynamo and starter, balloon tyres ercelterms. Tho Light Car Cu.. \(404-414\) Enaton Rd., Londun. Phone Mu semm 0081 .
CITROEN. Sprosen, Lid., for Citroens. Exchanges, deferred. 87 guincas. 1925 (auturan) 7 hp cloverleaf, tsros, body, upholatery, elc., as new,
 CITROEN 559 ; exchagea, delerred pasments, 1922 Citroen, 7 bp, 2 -scater, lighting, starter, all-weather equinment, speedometer. sparo Sydenham \(2452 . \quad 695.760\) CITROEN, 1926 model, 114 , atted English bods, 2 -scater, superb condition, mileage nesligrble, 150 gaineas: exchanges or delerred. Ed.
wardg, 175 Ge . Portland St., w. May C1TROEN, 1921, 10.4 , 2-seater, lighting. starter, completely equipped,
 CITROEN. 1925, \(7 \mathrm{hp}, 2\)-scater, painted maroon, balloon tyres. perfect ordcr. fis: ©also ham Notor Co., 2435 Hammersmith Fid., W. 6 . CITROEN, 11 hp . Iate 1923, English iseater body, as new, tayed, \(\boldsymbol{f 9 5}\). CITROEN, 1925 , coupe. 7 br , sell-starter, lightiog. speedoneter, Lal. loon teres. etc., very smm
bargain,
íl 110 .
Below.
CITROEN, lato 1925, 7 hp . cloverlest 3-seater, painted maroon, amall milsgec. a barazin. f95. Exchanges, extended Fasments. Nears and 4191 -2
CITROEN, 1924. 7 hp, 3-seater, dynamo, seli-starter, taxed, excellen onder, 80 gas. Denman. 4 Denraan Place, Piccadilly Circua. Reg. 986.
 CITROEN, 1920, 10.5 h p, 4 -seater, 49 zns. Talbot Garage. 'Phoor CITROEN, drop-headed coupe, 1925, Lalicon tyres. starting and lizheing. in new condtion, f95: exch3nge. Reading Car Mart. 37 Erleich
Rd. Reading. Rhone 1909. CITROEN, 1925. 7 hr . sell-starter, dsname. 2 -seater. baltoon tires, as new. accept £85. 69 St . Paul: Avenue, Willesden Green, \(\begin{aligned} & \text { Londan. } \\ & 695-\mathrm{rll}\end{aligned}\) CITROEN, 7.5 h , 2 -seater, late 1924 . ballion tyres, excellent order. CITROEN, 1926 aofled clorerlea! उ-seater, accept i 135 , finished blue:
 CITROEN 7, \({ }^{2}\) seater. good order, f55, deferred paymenta, exchnnges D. Railton and Co., 6 Chaped St. . Sallord. Manchester. Ceat. 8539. 6957 leed 13 tmonths. 890 . Delolords, Sorth Row. Park Lane. Open 9 in 7 . CITROEN, 1923.7 hp . 2-seater, atarling and lighting. speciometer licansad to Decomber, privato owner. Drurs. 190 Mount Pleasant Rd. \(695-\mathrm{rit}\)
Tottenham. N. 17.
CITROEN, 7.5. 1325 (June), ciorcrlivat, private nion mDeage. 3, 800

\section*{SECONDHAND LIGHT CARS AND CYCLECARS FOR SALE (continued).}

CITROEN, 7.5, 1924 (Scpt.), 2-seater, balloon tyrch, spare unused.
 CITROEN, 7hp, self-starter. 1922, 2 -sceter, dynamo 11 ghtinge licensed,
 cithoen, 7.5, 1925, 2-seater, milcago under 1,000, £95. Below.
 2393 . (ncal Georbd zzz-942 CITAOEN, \(11.4 \mathrm{hp}, 4\)-seater, excellent condition; terms, f8 10 s. and 10

 CITROEN, 1925 . English A-seater, f125 easb. or \(£ 31\) Es. down and 12 paymenta, with ontion of a opecial reches by arrangement. \(695-385\)
 CITROEN,
No dealers.
Writo, M. Mater.
a CITROEN, 1925, 2 -seater, 7 hp , scll-starter, lighting, specdomeler, ballovn tyres, snare whec and tyro. completely equipped very smandmile
 CITHOEN de luxe. Cass's Motor Mart. Ltd. (Fstablished 1911). Tato 1925 114 Enplith 4.senter, blue. indistinguishable from new. terms.
fi35. 5 Warren St., W.1. Museuns 623.


 CITROEN, 11.4. 1924 Enpligh 2-aeatcr, double dickeg luggnge carricr, cepained, excellent condition, \&95. Major B., 108a King Ilfenry's Rd, \(695-\mathrm{r} 27\)
Swiss Cotiage, N.W.5.
 Cxeclent
CITROEN, 7 hp. 1923 2-seat-r. sell-starter. dynamo lighting, spare whecl,
C65: exckanges, delerred. King, New Rd., Oxford. citroen, \({ }^{7}\) 5hp, 1925 model, cloverlent 3 -scater, balloon isrcs, olartor, talments. Below
CITROEN, 7.5hp, 1923-24, 2-seater, delachn bles, Eiarter, speedometer,
 Citroen, 7 hn coupe, 1924, good condition, £85. Ratclille Bros.i. 200
\(695-475\)
 Paddington 3553 (4th turn right from Marble Mrch). Aliways open. 696.480 CITROEN 7, late 1925 S-seater, balloons, fully equipped, little Yscd,

CITROEN, 1924, 2-seater, English body, sunken dickey, in very fine
 CITROEN, 1924 (July), 4-scatcr. balloons, rear windscrecn, all-weather
 CITROEN 7, 1925 madel, excellent appenrance and conditlon throupli-
out. 85 guincas. Clarks, 223 IIemmersmith Rd. W. W.
\(695-786\) CITROEN, JOhp. 1921, 4-ecater, machnnically pertect. 4 new tyres, nll-
 Thenc, North 4102
 clectrio horn, speedometer, petrol can earricr, tyres excellent, insired
Largin. guarinted. Siod: deterred tecrms. exchanges. Wilkins, Slmp
 cash, deferred terms exchances. Wiikins. Simpson. opposito Olvmpita, CITROEN. A real snip. Sco mago \(73 . \quad 695.655\) CITROEN, 1922, 11 hp. drop-hcad coupe, atarter, luggage, speedometer, etcents, exchangea. Wilkune, Simpsun, opposito Olympia, London CLULEY, 1923 model. exceptionally emart 2 -3-scater, with double
 CLULEY, 1924-25. 2-scater de luxe madel, double sunken dirkey, bnl31 llyydethorpe Rd., Bnlham. Phone, Sireatham 3440 . CLYDE, 2 -ecater, 10hp, A-cylinder, Mrehanically sound, tyres fair, CLYNO, 1924,4 -schter, all-wenther equilument, 2 door medel, open to
 il YNO Always 50 used carr in stock, including Clyno, all backed by our well-known guarantee. exchanges or delerred terms. The Llght Car
Co \(404-414\) Euston Rd, London. Thone, Museum 3081 . \(695-540\) CLYNO, 1924. 4-seater, self-starter, clock, speedometer, food condition throughout, 100 guineas or exchange. Putncy:
" THE MOTOR ELECTRICAL MANUAL

SECONDHAND
LIGHT CARS AND CYCLECAKS FOR SALE (continued).




 CLYNO South Faling finyage, 1924, 4 -seater, new tyren many er eras, including rent scren, boyco motormetcr, painted royal bluo really
exceptional condition nplicarance nnd ricchanically, \(£ 110 ;\) part ex excenge or delerred payments. Ealing 2983.
changen
 Court. 6684 Wester
 CLYNO, 4 -seater, on balloons, fully tnxed, very tast, \(\mathcal{E 1 0 0}\) deferred pay ments, exchanges. 11. Rnilion and Co.. 6 Chapel St., Sallord, Manchester
Cent. \(8535-590\)
 or near oller. Box No. 4068, c.o. "The Light Car and Cyclecar.".

 CLYNo. A real snip. Sec page 73. 695-658 COVENTRY-PREMIER, 1922, new Dunlop IWres on rear, cloctric light, 695.502



 COVENTRY-PREMIER. 1922, 81p, 2 seatce, sunk dirkcy, dsmamo, 42 Gns.: exphankes or doicrred. W. M. Edwards, 175 GL . Portinnd St 695.739
W.i. Afayair 6977 . COVENTRY-PAEMIER, 1922 , 2-senter, 4 -whecter, bunken dickey, dy

 COVENTRY-PREMIER, 39 , gulncas, 1922 2-senter, dickey (equirre back

 CROUCH, \(1921,9 \mathrm{Ln}\). 2 -3-seater, good order and conditlon, sinro wheol

 OIATYO, 1923 (Mny) \(9-18 \mathrm{hp}\), luxurious 2-scater, double dickey, Eas fe. cost \(£ 400\), new condition. 95 gns., ncar offer. \(y_{3}\) Upper Grope South Norwood. N D'YRSAN, September 1925 , specinal sports shell racer, o.h.w, specinl

ERIC-CAMPBELL, 1924, 10hy, \({ }^{12 / 2}\) lilre, 2 -scater and dickey, in reall Eood condition, ouncer must scll for busincss reasona, gearbec just over-
 ing and starting, many, extons, includiñ shock nbsorbers. 4n m.p.5. ©
 during businesi hours Clorkenwel 6000, or "write Box No. \({ }^{2 z 2}\). 501 ERIC.CAMPBELL, brand now, shop-soiled, 1926 model \(8-20\) chummy

 ERIC-LONGDEN, 59 guincas. \(1923,10 \mathrm{hp}\), sports 2 -scater, dynamo lightMoiors, 325 High Rd., Chiswlck, W.4. Phone, Chlswick 303 . 695.684 FIAY, 4 -scater. \(1925,10-15 \mathrm{hp}\), balloons, just completoly overhauled, repzinled, small mileaze. Kuaranteed rondition, 200 Euincas. \({ }_{695 \cdot \mathrm{r} 7}^{51}\) Ulper Richmond Rd., Last Putney. 695-r?
 FIAT. Alwass 50 used ears in stock. including Fiat, all lacked by ous 404-414 Fuston Rd., London. Phone, Muicum 3081. The Light 6ar Co. FIAT, 1921, 10-15, 4-senter, excellont condition, £ 97 10s. Bartletts, 695.576
ys Gi. Fortland St. FIAT, 10-15, saloon, late 1925, balloon tyres, taxed December, e265, FIAT, 1923, \(10-15 h \mathrm{p}, 4\)-seater saloon, by Mulliner, tax paid, excellent FRAZER-NASH, 1,100 c.e, Akela model, wevel drive, oh.v. \(695-621\)
 oflers? Capt. T. Moore, 86 otley Rd. Lecing Palmer cord tyres. What

\section*{SECONDHAND \\ LIGHT CARS AND CYCLECARS FOR SALE (continued).}

\section*{SECONDHAND \\ LIGHT CARS AND CYCLECARS FOR SALE (continued).}
c.w.K., 1915, 2-seatir, 10 hp .4 speeds and reverse, lamns, horn, clock, \({ }^{\text {aposen }} \mathrm{L15}\). Tedding
G.W.K., 4 .seater, execilent conditlon: torms, 54 and 10 monthly pas

 awn, Oak Lodge, Tarkǐield Rd.. Ickenham, near Oxbridge.
 GWYNNE car overhanls, bodswork and spares; second-hand Gwyne cars facturers of Gwyne cars in nuccession to Givsnnca Enginering Co., Idul. Church Whart, Chiswick. Pbone. 1780 Ckliswick. GWYNNE 8, second-hand cars, all models, overbauled and guarantecd, Irom © © 8 . Chinery, Gwynne Specialists. 1 Hammersmith Rd., Kensing.
ton.
zzz- 929
 GWYNNE 8, 1923. chammy 4 -seater, repainted, very fast. new tyres, PYO, delcrred payme ats, oaschnnes. D. Raiton and Co., 6' Cbapel Sti.
Sallord Manchester. Cont. 8559 . 592 GWYNNE 8, 1923 chummy 4 seater, taxed. aplendid order throughout Sell-starter, apeedometcr, clock, etc. rery mippy, 885: exchangea, de

 GWYNNE. Phonc, Kingeton 1274. 1923-24 Gwrnne 9, chum 695-483
 guarintecd mechanically perlect,' ans triu, 285 . 37 Arlinget 695 . Rd. surbiton.
GWYNNE 8,1924 4. seater, perlect condition, with full equipment.
 GWYNNE 8 used cars, chummy. 2 -geater de luse, and latest type 4
 HAMPTON. 1923, 10hp, 2seater, sunk dickes. 4 -speed, starter. elc.
 HAMPTON, 53 guineas, \(1920-21\), 2-seater. dsnamo lighting, self-starter
 HAMPTON, 19219.8 2-seater and double sunken dicker, starter and
 or delerred. Naylors, 45 and 406 Garratt Lane, Earlaficld. S. Wish 18 , Phone, Wimbledon 2041 . and 406 Garritt Lane, Earlaticld. S95-715 HAMPTON, I 925 . 11.4 hp 2 -5eater and dicker, pointed gres, in good condition, Talbot Garise. 'Phone Richmond 1697 'rifer HANDS, 1925, 10bp. 4-senter, painted maroon, balloon tyres, very nica (695-702 HANDS, 1923, 4-seater, starter, excellent condition; terms, f8 IOs. and
 HILLMAN. Harold Simons for bargains. Sio " Miscellaneors Cars." 695780 HILLMAN, 1921. 9.8 hp , sports, polished aluminlum body, with blic wings, leather upholstery. long outside copper exhanst pipe, polished aluminium discs to all wheols, dynamo lighting, cord tyres throuthout ( \(\bar{y}\) sen \(100 \mathrm{~m} . \mathrm{ph} . \mathrm{time}\) speedometer. Smith's clock, lamps, large Apollo
 week. Rowland Smith, 78 Migh Si., Hampstead. Phone, Hampstead
842 695.38 .

HORSTMAN super-sports. This famous car, successfully driven by Capt. Trubla acoore, is now for sale, holds mang premicr anards, including tho record
fullest equipment, alternatise gear ratios, over \(100 \mathrm{~m} . \mathrm{p} . \mathrm{h}\). if required, quita tractableand easily driven through town on top gear. Weat ouers; HORSTMAN, 45 guineas, 1921, 10 hp, 2-seater, dickeg, rccently repanted and all new tyres fitled, very smart appearance, trial willingly. Phone 30 ac. HUMBER. Marold Slmons for bargains. Sco "Miscellancous Carb."
 HUMBER 8, chummy, 192 S. ba!loon tyres, electric starting, lighting. 695-p380.
 Euston Rd. Museam 760 . Basleg, lato Rey (Established 1900), 374 HUMBER, IOhp, 4-seater, starter, dynamo, rery good condition; terms, Iotors, 49 Green Lanes, Newington Green. Ni, 16. Clissold 6628 . HUMBER, 1926, 9-20hp 4ecater, only ased for few depuonstrations un arca, indistinguishable fromi brand new, fully guaranteed, list price mopson, opposita Olrmpia, London. 695-r177

 HUMBERETTE. a.c., fil, gecuine privato bargain. 22 Manor Rd.
Brockley, S.E.4.

\section*{SECONDHAND \\ LIGHT CARS AND CYCLECARS FOR S.4LE (coritined).}

\section*{JOWETT, 1924 (Aug.), 4 -scater, 8.s., e.scellent order throughout. £125.} Jowert SERVICE STATION (London), Main agents and sporinists,
 JOWETT, 1 ato model, full 4 -scater, lighling, starter, il-weather cquip-
 JoWETT. R. G. Gamble, Cryatal Palace.
For tho best scond.band Joweths consult tho specialist. 1925 1925 2-scnter, dickey, sell-6enter, oversizo tyrcss ns, news. 1110 . Eevernl othero, nll guaranlece, from 275 .
Friblanges, deferred payments.
Jomett Scrrico Derot. \(16-222\) Gipsy Hill, Crystal Palace
Soweth servico
JOWETT. 1925 2scater dicker, starler, balloons, spcedomeler, 579 Lsautiful condition, 100 guincas. Bolow dOWETT. 1925 2-sater, dickes, statecr, specdometer, benutitul con-
 JOWETT, latces 1925 model light 4 erater, 2,900 miles. Lucas sell-





JOWETT, 1920 , 2 -scator and donble dickes seat, dsnamo lighting, born,
 JOWETT. F. O.CH., Ld the Londod depot and serrica station, have a

 Jowert, 2 -seater and dickes. 1923 4, only done 9.300 , mechanically
 JOWETT, 1922 2-seator, In execllent condition, double senken dickey, tax. epeedometer, dynamo lighting, all-wenther cquipment leather \(\quad 1 p\) Tooting. Streatham 365 . JOWETT 1925 2-scaler, dickey, excellent running order, owner going
abroad, 665 . Comsn, Manlley Chase, Newent, Glos. \(695-\mathrm{r} 218\) JOWETT, 19242 seater, yent's tax, very amart, 79 guineas. IIiscott, I7Ja Westbonrno Grore. Seo pago 73.
JoWETT. A real snip. Seo

695-784
LAGONDA. If you eannot aflord new car prices, purchaso a demonstration, bhop-soilod or good scoond-hand model from the manulacturers. A large gelection at nil pricea always avalable. Write for particulars to
lagonda, Ltd, 195 Ilameramith Rd.. London, W. \(695-449\) LAGONDA, 1921 coupe and dickey, likbting nnd starting, taxed. good
condition, 46 : or exchange. 85 Camden Mews, N.W.1. Norlh 1545. LAGCNDA, 1923, 2-scater, dickey, starter, dock, epecdometer, good irces, beantiful condition, 77 guineas: exchangeg, terme, Allery and LAGONDA, e59 exchanmes, delerred payments. 1921-22 Lagonda
 Sydenham 2452 . LAGONDA, \(1924,12-24\), all-weather touring, in perfect condition throunhout, kuarantecd 12 morths, \(12 \overline{5} 5\). Deloford's, North Row, \(695-599\)
Park Lane. Open 9 to 7.

 LEA.FRANCIS, 1925 2ecrier, 4 enceds. In exceptionally aice condition, fi65: extended erms. II. Beaslcy, late Rey (Established 1900 )
374 Euston Rd. Museum 7600 . CEA-FRANCIS, 1924 (July) 2-scater, grey, 8,000 milea, excellent condition throughout, eplendld bill-climber, any trial or examination
£ 120 . Schulte, Grećn Gables, Mrlow. LEAFFANCIS 1924 2-scater, fully equipped, nice condition, 2130 ;
 LEAFRANCIS, 100 guincas, de luxe, upholstered real leatber. clock, zelf-starter, spendumeter, rigid side curtaina, deferred terms. Denman
Motor Agencs, 4 Denman Pl., Piccadilly Circus. Regent 986 . 695.641 MARSEAL, \(1923-4,10-20\) sports 2 -seater, llghting, starter, etc., and complete. real Largain, e5s
Fulham Rd., London,
MATCHLESS, 559 exchanges, deferred payments. 1925 Matchless qul 4-grater, 10hp, dynamo lighting. rigld allwenther equipment, 4 -whee brakes, bparc whec, apecdameter, 35 liansler Rage krid, in practically new condition Seabridge, 3S Hansier Md., Last Dulwich, bydenham 2452. 6950 MATCHLESS, 1923 , 10hp, 4-seater, completely equipped, f.w.b., excellent land St., W.1. Mayfalr 6977. 695-742
 \begin{tabular}{lll} 
MATHIS. A real snlp. Beo page 73. & \(695-\mathrm{r} 89\) \\
\hline 95464
\end{tabular} MCKENZIE. Jaro!d Simons for bargains. Sco "Miscellancous Cars." \(635-779\) MORGAN Snrvice Depot. Offial appointed repairers by the Morgan
 hithimachines niwn lld., E.5. Clissold 2408.

\section*{SECONDHAND \\ LIGHT CARS AND CYCLECARS FOR SAlE (conlinued).}
mongans. James nnd Co. (Shemicld). Thtd., 261.7 Ecelcsall Ird., Shet
 MoncANS, now and second-hand: cash, exchange, delerred. We buy Mongan Service Depot, Hilll. 91 St. Peter's St. St. Allinng. Tel. 636 . Appointed onicial reynirer by Morgnn Motor Co, 1914. List of ncw and MOAGAN, de luxe, 192A, Anzant, oli.v., gurantocd sound throughout,
 MORGAN, 1924 , standard specdomcter, onls done about 10,000 milos,
 MorGAN, Blackburne, 1923 . standard, new tyres, mechanically perfoct.
C62. SL. Kildins School, Cllatsworth RU., Croyuon.

 MORGAN do luxc, 1925 model. dynamo lizhting., absolutely as new, MorgAN. 1923 model do luxe, matereonled MrA.G. engince, vety fine aprearance, coach finishcd, rosal bluc, fiad Kirk and Co Conamo lighting, fory uno condition nnd appearance, Li75. Kirk and
 and Co., 22 Pracd St., Paddinglon, W.2. 695-463 Morgan do luxo. 1 Ohp Anzani, now. Stepness, dynamo and acetylene




 today nnd cost 8208 it is a freat bar main. © 165 . Cablit nr hire purclasc. Vcroon Ball, 25 ITIGh St.. Fullimm. Pulncy 1995. \(695-421\) MORGAN do luxo. 1922 a dynamo lichtinfy fredome tor, domo mud-

 MORGAN, Anzan1, 1925, lown milenge, nertert condicion, 1105 or near





 MORGAN. 1926 , family modet, water-cooled Anzant engine, filcent whb


 Mongan, 1922 Grand Prix, whter-coolcal Blackburne, dynamo light-
 MORGAN 1923 family mondel, JAr. witir-cooled, dynamo lightinc. E68.; exchanges, delerred. King, New ., oxtora. Morgan 1925 family, model de luxe, waler emled, dynamo lightiñ
poricet, \(\pm 100\); exchnnges, delerred. King, New Re., oxiord.
695.518
 MORGAN Sprosen. Lid. Ror Morgans. Jixchanges, deferred


 35 Euincas. Ciappell. 28 Bedminster Parade, Bristo \(695-449\)
 Morgan, Grand Prix, wator-cooled J.A.P., \(\operatorname{s50}\). Jcrons. S. Ronnng. MORGAN 1924, Grand Prix model Blackburno water-cooled ensino, dy-
 Morgan. Grand Prix, 1922. dynamo spntlight, Epp?endld condition, morgan, f69,
 MORGAN, Popular 1923 (August), a. e. Blacklurne. in excellent condi-
 morgan. Bargain. 1926 Acro, ob fr. Mlarkburne, cost cito fow




\section*{SECONDHAND \\ LIGHT CARS AND CYCLECARS FOR SALE (continued).}
 MORGAN, family, July, 1925 , practically as new, mileago 900, wator-
 MORGAN do luxc. 1923 M.A.G. enginc, water-cooled dynamo, specedo-
 MORGAN ive luxc, w.e. J.A.P. engino, 1921 , good running order and
 MORGAN, 1925 Grind Prix J.A.P. s.v. oncinc, ana new, \(\mathcal{E 1 0 0 0}\); licensed

 8539.
 1. Wathli, 38 Ilunberstone Rd, Plaislow, E.13. \(695 . \mathrm{rloz}\) MORGAN, 1 192J, standard 8 ghp J.A.P. dynano lighting. electric, horn.



 MORGAN, 1922 , do Inxe. J.A.P engine, Slamp dnnamo hightig get.


 MORGAN, 1922, 8hn J.A.P.", water-cooled do luxe, dynamo lighting,

 morgan, 1924, de luxc, water-cooled 10 in Rlackburno dynamo light

 Thornton Ifeath, Croydon. Morgans. Homac's havo for disposal the following guaranteced 1966 ranily model. water-cooled J.A.P.. Dunlop F.F. tyres, delivery

1922 Grand Priv. sinecial wo. J.A.P. narrow body, Acro screons and

 Clissold 2408 .
MORGAN, 1926 model Aero \(10 h p\) oh.r. Blackburno, w.-c. engine, dynamo, specdometer, f.w.b. s.s. tyres, hood, finished primroso. whol30 gns. Bejow.
MORCAN, 1925, famlly, w-o. Blackburno englac, completely equipped, speedometer, Wractically new condition throukhout, 100 gns.; exchanges
or deferred. 175 Gt . Portland St., W.1. Maylair 6977 . \(695-749\) MORCAN, Joly, 1925. Acro mudel, dynamo lighting, twin serecn, ecntral spotlight. mirror. specinl sports heod and manrother extras, inxed,
£112 f.N. Salmoon or Ausin part parment. Earls, Led., Tho Valo
 AORRAN, 1925-26, family, Anzanl-engined; this la a genuine bargnin;

 MORGANS; exchangea, defcrred payments: 1922, family, w.c., dynamo, f69: 1922 cic laxe, W.-c., dynamo, s59: de luxe, w.-c, dynamo dickey Itd., East Dulwich. Sydenham 2452.
MORGAN, 192J, do luxe, waler-cooled MI.A.G. engine, electrio lighting,
 MORGAN, Acro. 1925 Anzanl. wide body, electric and bulb horns hood, in very fino condition, any trial, flls. Below.
1I. Heart and Co. 102 Landon Rd. Kingston-on-Thames, the recognizcd Morgan specinjists. Do not fail to consult us before buying your
Morgan. Wo maintain an expert staH solely for Moran overhauls and repalra. Morgans tuncd for sinced or competition work under the and sonal supervision of our Mr. Beart. MORGAN, Grand Prix. 1922 w.-c. Blackburbe. Lucas dynamo lighting.
\(\boldsymbol{£ 5 5}\). Godircy. Manoí Rd., lichmond. MORGAN, Into 1923 , Grand Prix, water-cooled, taxed nnd Insured for 1926, dyuamo lighting, perfoct, è70 or near offer. 158 Ebury St.
Victorla. \(695-674\) MoRGAN, 79 guineas, 1924, Grand Prix, Anzani engine, Lucas drnamo
 MORGAN, 85 gitoeas, 1925 , Grand Prix, Anzani engino. Lucas dynsmo pearance, tremendous acceleration: exchanges. Empire Motora, 325 Hip pd., Chiswick, W.4. 'Phone, Chiswick 303 . Lmpire Motorin, 325 High
MORCAN, 55 guineas, 1922 . Grand Prix, J.A.P. engiue. dynamo lixht
ing, gnonl tyran, smart appearinco, fast; exehanges. Enpire Motora, 32 an


\section*{SECONDHAND \\ LIGHT CARS AND CYCLECARS FOR SALE (continued).}

MORGAN, 59 guineas, 1923, Grand Prix, MA.G. engine, Lucas dynamo ighting. specdometer, smart appearance, any examination, crchangce.
Empiro Motors, 325 High Rd., Chiswick, w.4. Phonc, Chiswick 303 . MORGAN, 1924 do luxe, with dynamo llphting. only ran fem miles and
 MORGAN, 98 gna.; 1925 family model, Lucas dynnmo Hghting, com. istio equipment. practically nex tyres, good hood alld upholstery, indistingulghablo from ncw. A.A. or R.A.C. inspection willingly: exchanges
Empire Motors, 325 High Rd., Chiswick. I'hone 303 . \(\quad\) 695-725 MORRISOXFORD, 1914, 10hp, 2-scatcr, smart sports body. in- very sound condition. any exnmination fat and reliable, £25. \(\begin{gathered}\text { Box No. } \\ \text { 4030, c.o. Tho Light Car and Cyclecar." }\end{gathered}\) 695-x660 MORRIS-EXFORD, 1914, electrio lighting, bodswork and palat good. been woll cared for only wants seeing. sio eparo whecl, licence nnd
insured. White, 24 St. Mark's Rd., Maidenhead.
S95-p948
 CW CARDEN 1925 695.790

 ning expenses. attractivo in appearance. delerred terms arranged, \(\boldsymbol{\rho} 40\)
 NEW CARDEN, 1925 2-scater 7 hp model, only used for dcmonstration purposce, car ready to drive away, cheap dor quick clearance.
and Harrison, Ltd., 22
Arnot
Iythe Rd., Willosden, N.W.10. PERRY, 7hn, 1914. Tecently overhauled, dynato lighting, good Dunlon RENAULT, 1924, 8hp, 2 -geater and dickeg, balloon tyres, electric light-
 Tel., Cent. 2191.
zzz-915
 RENAULT, 19258 hp coupe, f.e.b., balloon tyres, sparc wheel, unused.
 RENAULT, 192583 2-scater, excellent condition, \(\boldsymbol{f} 135\). Gcorta-605 RENAULT, \({ }^{\text {man and Co., } 369 \text { Eniton Rd., London. }}\) RHODE and Thomas nnd Frazer-Nash. Led., London Rd. Works. Kiopston-an Thamea. Telephone, Kingston 3610. 695-402 RHODE, sports. 9.5hp. 1923, cxcollent condition, £135 \(25 \begin{gathered}\text { Prospect } \\ 695-\mathrm{r} 19\end{gathered}\) RHODE, 1924 , light 4-seater, In excellent condition, small mileage, filly equinped, rear screcu. etc, licensed end of ycar, 3 bargain. 695 rī̄ RHODE, 260; chummy nll-weather, excellent condition, late 696.192. RICHARDSON, 1921, 2-seater, dickey. f24. O.A. V. Hghting extras,
 RICHARDSON, \(£ 25\); exchanges, deferred pasments; 1921 ehnmmy 4 scater,
apece, reliable, economical, an examination. trial. Scabridgc. 35 Hpans.
\(695-754\) ler Rd.. East Dulxich. Sydenham 2452. RILEY, Lewes Motor Works, Sussex All Rileys completely orerhauled
betoro offered. Write for stock list. RILEY sports, 1924, \({ }^{2}-\mathrm{sentcr}\) and hidden dickey, ongino iately orerwheels, hood, rorolution conpe bearings throughout. 1.26 t.pe wiro tyres, moderate mLeage, e265. 18 Boundaries Mansions, Baibam. RiLEY 192511 hp coupe, practieally equal to new, £325. Newnham
Motor Co., \(243-5\) Hammersmith Rd., w.6.
\(695-70 \tilde{3}\)
 ROVER 8s. Titjen and Hillier, 110 Woodrale, Honor Oak, S.E., barc thu following in nice condition, luly equipped and ready for a trial run:1924 Rover 8, lull 4-seater, \(\mathrm{f}^{2} 75\).
1924 Rover 8, oceasional 4-seater, ef72. 2zz-373
 Lañham 2933. ROVER, \(8 \mathrm{hp}, 1923-24\), 2 -seater d \(\Rightarrow\) luxe, speedometer, clock leather

 ROVER 8, 1921 2-scater, dickey seat. dynamo, excellent order. \(f 38\). ROVER 8, \(£ 47\) 10s., 1924, 2veater and dickey, dynamo. epecelometer. all-weather, excellent throughout. no ollers. 26 Tulso Milh. Brixton.
Phone, Briston 1292 .
 tire and rellable car. 257 10s. Kirk and Co.
ROVER 8, \(1922-3\) 2-senter, equipped with side screers. specdometer, dsuanu lishting. dachlamp. extremely smart appearance, good tyres. tax paid, \(£ 57\) 1Us.; snother \(£ 5210\). Kírk and \(\mathbf{C o}\),
ROVER 8, 3 -senter. 1922, very sound mechanical condition. good tyres
ROVER 8, 2 -seater, 1921, dynamo lighting. rery nicely equipped, f49 all cars guaranteced exchanges, terms Sinct and Co., 22 Praed St.: ROVER 8 de luxe 4 -seater, 1924. selh-starter, guaranteed, \(£ 85\). 3yount
fiew 3900 . 338 Horney Rd. Mollowng London.

\section*{SECONDHAND \\ LIGHT CARS AND CYCLECARS FOR SALE (confinued).}



 ROVER 8. 1922, 2-acater and dickes. water and air-cooled. 45 miles ncr millon, looks and runs
Cambrai Lincs, Bulford Comp, Salisbury. ROVER, 1922 chummy. rery nicc condillon throughout, C 67 10s cash,
 ROVER 8. Finchley Molora difer 1924 -sseater anil doulle 5 unken dickey, dynamo and staricr, clock, encedometer, licensed. excellent con-
dition, \(\mathbf{X 7 5 .} 132\) High Rd., East Finchley. Pbono 2338 . \(695-452\) ROVER. M1. F. Edmards oller the following Rover 8 bargalis:192.3 do luxe 2-seatcr. clock, snecdomector, starter, dickey. leatber up1922 model 8hy 2seater. completcty equipped, good condition, 45 gns ; exihanges or deferred. Edwards. 175 Gi. Porlaad S.. W.1. \(695-743\)
6977 . ROVER 8. Harold Simons for bargains. Sco "Miscellancous Cars."
 ROVER 8. 1923. chumms. perfect order, licensed December, f52.
Kingsbury
\(695-\mathrm{r} 214\)
 ROVER, 1924 , 8 hp. 4 -seater; terms, \(£ 810 \mathrm{~s}\). and 10 monthly, payments
 ROVER 9, 1924. chnrumy 4 -seater. perloct order, £98. Batchelor. 135
695 -ri 191
 ROVER, \(8 \mathrm{hp}, 1924\). model de luxc 4 -seator, speedometer and clock,


 ROVER, 8 hp . 2-seater, excellent condition and appearance, all-weather
 ROVER B, 1921, 2 -scater and dickes, dsnamo lighting, electric born,
 ROVER, \(8 \mathrm{hp}, 1923.24,2\)-seater de luxe, speedometer, clock, leather, up\begin{tabular}{l} 
holstery, nll-weather equipment, excellent condition, suaranteced, f65 \\
Wilkins, Simpson, opposite Olgmpia, London. \\
\(695-\mathrm{rl7}\) \\
\hline
\end{tabular}
 ROVER B, 1921, 2-seater, engine reconditioned as new. repainted,
 ROVER 8, 1924. 2-scater de luxo double dickes, starter, excellent condition. 875 . "Willoughby." Cricklewood Lane, Cricklewood. Hampstead
\(695-\) r 67 ROVER 8, 1924 model, 4-spatcr, in superb condition throughout, guaran-
teed 12 month \(£ 55\). Delolords, North Row, Park Lanc. Open 9 till 7 , ROVERS, 8 's and 9 '6, 2 and 4 -scatcre, and chummy 4 -scatcra: deferred paymrata, exchavia. D. Rallion and Co., 6 Chapel St., Saliord, MnnLester. Cent. 8539.
ROVEA (Juls, 1924) do luxa 2 -seator with doublo dickey, dynamo Tighting, self-starter, almost brand, new, balloon tyres, apare whoel, bood, anboutable Eiater barcain 69 zuincas: exchanges, casy ferms. Wands: worth Notor Exchange, Ebiner St., Wandsporth (Town Statlon). 695-583 ROVER Firbts. A largo aclection of all models at pricen varying from Motor Mart. 151 Wbite Mart Lanc, Bornes. many other makes. Andrews ROVER 81922 de luxe
5 good tgres. Buckles, 42 Novn Rd., Weat Croydon. ROVER 8, 1923.4. clummy, completo and ready for immediato use, smart, and in pericet condition, bargain, 265; exchanges or casy lorms.
Cummings, 101 Fulham Itd. S.W.3. ROVER 8,1924 , de luxe, 4 .seater, in beaufiful order and condition
 ROVER. Alwaya 50 uecd cars in atock, Including Rover pll backed by

 ROVER. Sprosen, Lld., for Rovers; exchanges, deferred.

 nnven, \(9-20 \mathrm{bn}, 1925\) (May) Nilc bluc, 4 -scater do loxn, 3 doors, ownorMriven, alsem 0638.


\section*{SECONDHAND \\ LIGHT CARS AND CYCLECARS FOR SALE (continued).}
nOVER 8, 1924, 2-seater, dickey, sfarler, specdometer, beautiful condt ROVER 8, 1921 , 2-senter, fulty equinped, taxed, splendid condition, 29 Culncasi exchanger, turns. Allery and Bernard, 344 King a Ru., Chelsea,
S.W. Kensington 4633 . ROVER \(8,1922,2\) seseater, taxed, 3 new Dunlop cords, excellent condition,

 ROVER. A real suip. Sco page 73. 695-660 ROVER 8, South Ealing Garage, excentionally fino 19244 -seater

 Riversido 4191-2. Bishop, Ltd, 225 and 227 Hammersmith Rd.. W. 6
 St. W.1. Langham 1998.
 nOVER 8, £45; 1922, 2-scater, dynamo 11ghting, spare wherl, recontly overhanled and repalnted, exceptinnally gocd condletion; exchanges.
Limpire Motors, 325 Ligh Rd, Chiswick, W.4. PLonc. Chiswink 503 . 695.686 ROVER 8, 59 gas.; 1923 chumms, sell-starter, tax paid timl December
 nOVER 8, 252 10s, ; 1923-24, 2-scater, dickey, dynamo liphting,

 Phono 003. ROVER 1923 8hp churmay do Juxc, In firshclass condition, e688, 1924
 noVER 1924 Slip 4 -scater, condition equal to new, 75 grineas, motor-
cyclo in part payment. Longman Broa, 17 Bond St., Ealing. \(695-720\) ROVER 19248 hp 4 -scater, starter and Hghting, all-wcalluct cquipment bsolutely sound. \(\mathbf{£ 7 5}\). Below. ROVER 1923 hhp chummy, dynamo lighting recoacbpaintod, thoroughly hoico of Jol BOVER 1922 8hp 2 -scatcr do luxo, starler and lighting, leather uphol-
 ROVER 8, 1921, bluo, 2-seater, dickey seat, exceptional condition, e44; Phono, Richmond 3293 .

SALMSON. Appiy to the London distributora, Gordon Watney and Co. changes and apccial delerred cars. Scveral niways in stuck. Part cx
W.1. Phonc. Maylair 2966. ALMSON, 1925, \(10 \mathrm{~L} \mathrm{p}_{\mathrm{p}} 2\)-seater sports, very fast, excellent condition,

 SALMSONS. Vadum Co., uscd Saluson apecialists, offer
SALMSON, 1923, do luxo, semi-clliptic front apringe, luxurions coachbuilt
 SALMSON, 1922 , very 500 d order, excellent appearanco, 557105 SALMSONS. Deferred terms. exchanges, from Vadum Co., 37 Beacona ald Rd. Wslleadon Greon, N.W.10. Salmsons bought, overhauled, and
695.451
soldephono, Willesden 692 . ALMSON, 1925 Grand Prix, \(10 h \mathrm{~m}_{\text {, }}^{\text {ns }}\) now, only dono 600 miles, front
 Telephone, Kingston \(3610.4695-400\) SALMSON, 1925, 2-seater, dickey, finished red, new condilion, 2115 ; exchanges, oari, motorcycles. Newnham's, Heath Rd., Twicheoham, \(695-729\)
Phonc, Richmond. 3293 . SALMSON, 1925, 10hj, 2seater and dickey, painted red, rery small nlloage, perfoct order. £116. Newnham Motor Co., 243-5 Hammersmith
nd. W. 6 . SALMSON 1925 apectal sports. dynamo Highting and starting, all-
 foyal blue, frat-clas throughout, fyo, or exchange powernt comblnatide 4126 . 1926 brand H. F. Edwarde offor the following Salmaon bargains:tw. otc., inakers' ewarantee, present list price \({ }^{\text {C }} 4300\), our price 320 guineas. 1925 (late) 10 hp Grand \(\mathrm{Sp}^{2}\) ports 2 -seater, completoly equipped, t.w.b, dis192410 hp English 2 sendition, mileage 2,000 , 185 guineas, . Bolow, 19268 guineas. Below. cost, dickey, completely equipped, painted marroon, enupine \(£ 8\) extra


\section*{SECONDHAND \\ LIGHT CARS AND CYCLECARS FOR SALE (continued).}
 SALMSON, 192.4, Ringhsh 2-scatcr Lody and dickcy, upholgtered in real
leathrr, barbain,
 SALMSON. A real snip. Seo pago \(73 . \quad\) 695-661 SCOTT SOCIABLE, latest famity model, taxed, 1927 , under 3.000
 SENECHAL, 1925 (July), 1,100 cec., specially tuncd and fitted wilh alu-
melliutn pisicus, balanculd conncting rods, apecial ralve timing, variable

 SENECHAL cars. As tho sole concessionnalres for Great Britain wo


 SENECHALS. Sprosen. ItLd. for Scdechals; exchanges, deferred.
1925 ( Autumn) suupertporis. as new, unscralehod, Lased, guaranted,
 SHORT-ASHBY, ©AR. 1922 , 8 hp, sports 2 -scatcr, aluminiug hody, red
 SINGER, 1924 10hp 4 -srater, painted bluc, electric 11 ghta , self-starter, all-weather equipment, mechanical conditionguarantecd, tax paid, 8558.
 purchased Fobruary.
 absorbenf, uuction-oporated windscrecn wiper. driving mirror, ctc.., prico
 SINGER 2-soater, 1Chp do luxc. July, 1924, carcfally drlven bs experi-
 SINGER, 1924, 4-scator do luxe, dynamo highting and startine, all-
 SINGER, 10 hn 19212 -seater, starter and lighter, perlect running ordor, capital condlilion, must cloar. barkain, 235 . Frycr. Doro walk.
Ultoxeter. Phono 112. SINGER, £95, 10hn, 2-seatcr, as new throughout. Arthar Staart ind
Co., 16 Liitlo Portland St., W.1.
\(695-442\)
 SINGER, de luxe. Cass'\& Motor Mart, Ltd. (Establisbed 1911). 1923

 SINGER 1924 10hp Weymann saloon, excellent condition, 150 ; changes. delerred payments Parkers, Ltd., Bradshawgato, Bolton: also SINGER, 1925 , \(10-26 \mathrm{hp}\), de luxe 4 -geater, fullg equipped. exceptional condition, £150. Vivian, 33 Spenser St., Victora St., S.W.1. \(95-493\)

 SINGER, \(1925,10-26 \mathrm{hp}\), 4 -scnter, in new condition throughoot, mileago negligible, insured 155 guineas: exchange Marble Arch). Always open. SINGER, 10bp, 2-seater, dickey, 525.178 Eardles Rd., Strcatham. 695 -r5
 dynmo, taxed, 269.5 Victoria Arenue, Surbiton.


SINGER. Alwaya 50 used cars in stock including Singer, all backed by
 SINGER, 1923-4, 10bn. do luxe, \({ }^{\text {4.seater, nll-wenther equipment, dy- }}\)


SINGERS, 10.26 , choics of two 4-Ecaters, do luxo models, folls liconsed. 6 Ohapel st., Enllord Manchester. Cent. 8539. D. Mauton and © \(695-5 \in 8\) SINCER, 1925 (July) \(10-26\), 4 -seater de luxe small mileage, practic-
ally new, fully taxed, 170 . Lonel H . Pugh, 56 South Molton \(8 t, ~ i f ~\) Maytair 4435 .
SINCER. 1924-25. A-scater de luxe, all-wather equipped, soll-starter, P97 10s.
Western.

\section*{SECONDHAND}

\section*{LIGHT CARS AND CYCLECARS FOR SALE (conlinued).}
 SINGER. South Ealing Garago. 1924 g. hbp 4-geatcr, Elagishor bue,
 SIHGER 10, 1921 (lafol, 2 -scater noupe, sell-starter, dynamo lighting, sparo whecl, specdomeler, all tyres perfeci, in splendid order throughout,

 \&165. Pickworth and Hull, 107 GL . Fortland sil., 19.1 Langham
1998. SINGER uscd car bargains at Newnham's
1925 (Junol \(10-26 \mathrm{hp} 4\)-scauer do luxo, in perfect order, \(£ 180\).



 SINGER, 1925, do luxo 4-scater, smole-blao, f160; exchanges, cara,
 SINGER, 1924, de luxe 4-seatcr, blac frish, excellent order. f107:
 SINGER. 1923, do loxo 4-scatcr, blye finish, excentional condition, f95: exchangcs, cara, motorcycles. Nownham's, Ileath Rd.. Twicken. SINGER. Harnld Simons for bargains. See "Miscellaneous Cars." \(695-772\) SINGER \&99, exchanges, delcrred pasmenta, 1924 Singer 2 -seater,

SINGER, e95, exchanges, delerred nayments. 1923 de lure 4 -seater, 10hp. lighting. кzarter, anl-wcather equipment. sparc whecl. \({ }^{\text {smart }}\), 2452 .
SINGER, 1924, 10hp. Wermann 3-door saloon, Bedlord cord apholstery electrio iighting and startcr, inspection lamp, 2 horns. mirror. clock:


GINGER, specially tuncd, 10.26 hp . 1925 model de luxo 4 seater torrcr. \(52 \mathrm{~m} . \mathrm{ph}\). and 40 mp. g ., just oscribauled by makern and repainted dark blue. In perfect condition mechanically and otherwise. recently fitted with new tyes and magncto, many accessories, including Hartiord shock hendlamp lonses; an exceptional car for \(£ 165\). bennett, 32 RuLuand sta 819 hendlam
SINGER, 1924, \(10 h \mathrm{p}\). 4 -seater de luze, run only 8,000 milea and in pcrorder, 2ll5. Batchedor, 135 Londod Rd~ Kingrion-on-Thanics. 695 -r190 SINGER de luro. 1924, 10hp, 2-seater, dickey, all-weather equipment. specdometer, excellent condition, repaisted, guaranteed. fliz ios.: casy pagmants, excbanges. Wiking. Simpson. opposito Otmpa, 695 r175
SINGER, 1924 , 2 -seater do luxe, starter, all-weather, cxcellent condilion. guaranked. flot 15 s., cagh, easy payments, exchanges. Wilkins. Simpo
gons-rlbi SINGER, 1920, dickes, full electrical equipment, well ahcd overhauled, car convertiblo to same. Lhosd-Owen, Oak Lodge, Parkifld Rd. Icken. ham, ncar Uxbridge.
\(695-187\)
 SINGER 10, 2 eater. 1ato 1924, thorough condition, dickey screen, complete accassorics. \(£ 100\). Usherwood, 45 Comptoa Rd., Winchmora
HiU. N.

 SINGER. A real saip. Sce mage \(73 . \quad\) 695-662 STANDARD cars. Accredited Agents. Moare's Presto, North End and
Trimworth Rd., Croydon. Pbone 2623 . STANDARD. 1924, 11bp, 2-seater, mechanically sound, rearnithed, 7
 STANDARD, 1924 , 2-seater, drnamo, starter dickey, fllo. Garage. 12 Oornwall Terraca Mlews, Allsod Place, N.W.1. Baber St. Station-
STANDARD, 1924, 11.4. 2-seater, dickes. starter and extras, condition as nerw, 2110 : also
STANDARD, 1025 Piccadilly saloon, luggage carrier, licented, many

STANDARD, 9.5. 19152 -seater, dickeg. good tyres, dynamo. speedu, Precllent order, trial, week-ends,
Park. Phono, Lea Grcen 2875 . STANDARD, 9.5 2-seater, donble dickey, hood. speedometer. 5 delach-
able whecls, well shod bargain, \(£ 35\). 100 Wordmworth St., Liverpool. 695-p950 STANDARD, 11.4 hp 4 -seater, ownor-driven, new October, 1924. Emall of jear., incured to October, barcain filo ereninga and saturdara alter noons 224 Bcaumont Rd, Bournville. Birmingham.
 condit.
8677 .

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STANDARD，Piccadilly maloon， 192511.4 hn，super bargain，bluc wi black winga，Bediord cord mpholstcry，framelces winding windowe．cur fun lubrication，Dunlop cord balloon tyres（all practically ns neul． jucas dsnamo lighting，Ioucas starter，epare wheel and tyre，Smilhs speciometer， 5 lamp，spotight wien mirror meornarace piectio borns naid， 165 gilinoas cash，delerred or exchange．Open 9 till 9,7 duys \(\hat{8}\)
8421
\(695-388\)
STANDARD，£115， \(11.4 \mathrm{hp}, 1924,2\)－scater，sunk dickey，small milo－ nge，iaxcd year，really exceplional condition throughoul：exchanges，

 STANDARD，11．4hp，lato 1924，eplendid lot， 2115 or nearest cash．
 STANDARD．Alaays 50 used cats in stock，including Standard，nll

 STANDARD，1924．11．4．2－seater，all－weBtber，perfect condilion，taxed， bargaín，£105．Below．
 ETANDARD，1934，11．4，de Juxe 2－senter，fully taxed， \(2110: 1923\) 2
 Manchester．Cent． 8539.
STANDARD． \(1924.114 h, ~ 695-591\) STANDARD，1924， 114 hp ， 4 －enter de luxe，nll－wealher equipment， order throughout，s115：ensh．exchanges，deferred payments．W．T
Dunn，Ld．， 326 Euston Rd．N．Whono，Musenm 5591．695－602 STANDARD．Ifarold Simons for bargains．Sco＂Miscellancous Cars．＂＂ STANDARD，1924，2－8cater do luxe model，all－weather equapment， 3iging liydellarpe Rd．，Ballam．695－768 STANDARD，cxclangos，deferred payoicals， 1924 do luxo all weather \(2-\)
 wich．Sydenham 2452．695－757
 STANDARD， 11.4 hp，late 1925 ，4－seater，nu－weather equipment，mileago
］．900．new condition， 150, taxed December，Lagles and Co， 275 jigh St．，Acton． STANDARD， \(1925,11.411 p, 2\)－scater de luxe，dickey，balloons，small
 STANDARD， 1915 ， \(9.5 h n, 2\)－seater，opholstercd dickey，dsnamo light doine winge，coachpainted grey，pertect order， 255 ，Carter Syiva Grove，Linden Arenue，Darlington． \(695-\) r126
 STANDARD， \(1925,114 \mathrm{hp}\), self－Etarter，dynamo， 2 －seater and double

 STANDARD， 1924 ． 11.4 hp ． 4 －seater de luxe，many extran，execllent con－
dition，floo． 112 Strour Gren Rd．，N．4．Mountwiew 1586 ． \(695-\mathrm{r} 195\) STANDARD， 11.4 hp， 1924 ，A－senter de luxe，many accesporics，beauti－ ful condition，
l＇ark，N． 4. STANDARD．\(\triangle\) real Enip．Sec page \(73 . \quad 695.665\) STONELEIGH，really magnldeent 1924 chummy，lighting，starter，all－ out，f65：exchanges or casy terms．Cumuings， 101 Fulham Rd．，South
 SWIFT，£85：1922， \(10^{1}\) pp 2 －senter，repatstes，exceptional condition． SWIFT，F．O．C．11．Lid．，have several Swifts．Bargains． 5 Meath St．． SWIFT，2－cylinder． 2 scater extra long leg－room，dyamo llghting，ro－ \begin{tabular}{l} 
jaminted， \(\mathbf{S u r b i t o n . ~ 1 0 8 . ~ S e e n ~ S a t u r d a y ~ a l t e r n c o n . ~ T a y l o r . ~} 67\) Victoria Rd． \(695-420\) \\
\hline
\end{tabular} GWIFT 2－cylinder，2－acater，extra long leg－room，dynamo lighting．re－ painted，\(£ 17\) 10a．，secn Saturday alternoov．Taylor． 67 Victorin Rd． 695.420 SWIFT， 2921 johp． 2 －sealer and dickey，dynamo lifhting and starling
 SWIFr，1924，10hp，chammy model，leather upholstery，piriect condi－
tion，©ilG．Mcmobery．Youngs Corner，Hammeramith．

 SWIFT 1925 lohp colins，only run dew miles ant Indistinguishable
 SWIFT，E35， 192010 hp 2－seater，dickey，dynamo lighting pood tyres， SWIFT，

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 SWIFT chummy，1924， 10 hpp，very clean condition，anin，\(f 15\) down and


 Talbot．Alwnss 50 used cars in stock inclueting Tallot，fill brcked
 TALBOT coupe，1923，8－19hp，dickes，starter，lighllag taxed and in－
 TALBOT，1923，8－18hn．2－seater，sunk didkey，starere，spredometer，ex－
 TALBOT，1924，8－18， 2 －scaler，fintshed in maroon，abolutely in first－

 TALBOr．\(A\) real enip．Sce pago 73． 73.666
 TALBOT．DARRACQ，8－18，1923．lighting and gtartingi，excellent 2. ld．．Putner，S．W 15．695－r44 TALBOT－DARRACO 1922 8－18hp 2－scater，ickey，startrr clontric and bulb horns，splecdomeler，exerl！ent vond：tho，wilkins，Simpsan，ouposide Ulympin，Lonjon．
 wolseley cars Acercdited Agents，Moore＇s Presto，North End and I＇nmworth IRd．，Croydon．＂Phonc 2623.100 ．Presto，North End and
 Rinrs St．，Ealiord．Tel．，Cent．2191． \(22 z-916\) WOLSELEY，10hp，de luxe， 2922 ，2－seatcr，mileape 15，000，new tyres， WOLSELEY．Cassas Motor Mart，Ltei．（established 1911）． 1924 IOhp
 WOLSELEY 8．5， 1924 model 2－seater with diekcy，clectric blarling， New 350．695－p379
 WOLSELEY， 192110 do luxe 2 scaler．double dickey acat．filled every WOLSELEY， 1922 do lose 2 seater and doubla dickey ecat．repalnicd，
 WOLSELEY 1 Ohp， 1921 model，do luxe 2 －scater，dickey，siarter，light－ ng，apecisl n．－w．，fitting balloon tyres on rear，very nice order through－ 326 Euston Rd．，N．W．Phone，Nusenm 5391
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 WOLSELEY 1925 11－22hp 4－scatcr，brand new，shop－solled only，listed
f23S．necept 2195 ．Vivian， \(3 ⿹ 勹 巳\)
Spenser St．，Victorla St．， \(\mathrm{S} . \mathrm{W} .1\) ．Vic．



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 WOLSELEY 1924 11borger, fult


 WOLSELEY, 1925 , 105 hp , 2eqalce do luxs. Ieather uphollstery, mlror



 WOLSELEY, 104n 1922 model, de luxe. Icather upholsterg. indstin.
 WOLSELEY. South Filing Garage. 1922 10hp coupe, ncw fras, re
 WOLSELEY, 1924 , 11.22 hn, lishlinz nnd starter, 2 , horns, gircedometer.
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