# Ligin (car elyclecar 



Vol. XXVINo. 670 Friday Sep.25, 1925

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## Light Car Owners

 will be assured of MaximumEfficiency, Increased Power, Easy Starting, Lower Petrol Consumption in fitting a special ZENITH
## Carburetter

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Owing to the enormous response to our offer of free cameras to those assisting us in our census of cars and carburetters, we are compelled to close the scheme and cannot accept any further entries after September 28.


We are exhibiting the latest effects in "Rexine" for Motor Car upholstery and examples of the famous "Rexine" Rubber. cloths in black leather grains and double texture twills at

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Make your choice a JOWETT M CAR
Inexpensive to Maintain. Ample Power for all Occasions. :: Simple to Handle. :: : :: Sturdy Construction. : : :


All Models are equipped with Double Windscreen. Balloon Tyres, with Spare. Self-starter, Speedometer, Tool Kit, and All-weather Side Curtains on open cars.
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## For Jowett <br>  <br> For Service

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Specialists for SALOON and COUPE DETACHABLE HEADS.
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The small advertisement columns of "The Lighl Car and Cyclecar " form a unique marl for the disposal of all goods of interest to small car users.

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There has been no reduction in prices of raw material - in fact Tyres are considerably more costly-and as G.W.K. have always given value for money for the last fourteen years it is obvious that for 1926 the prices for G.W.K. Cars cannot be reduced, except at a sacrifice of quality and finish, which the Firm will not do.

G.W.K. LIMITED, \(\underset{\substack{cornwallis<br>MAiDENHEAD}}{Works.}\)

## Easier Filling

The Gun Charger for the ENOTS' flexible GREASE GUN $\int$ O simple, yet so effective, it makes grease gun filling a cleaner and quicker job. No bother, no waste.
How to use it. -Push charger well down into grease, rotate in both directions and then withdraw slowly while rotating. Insert into Grease Gun Barrel, and screw Charger Cap on Gun Barrel. Now, holding Gun in one hand, withdraw Charger through slots in Cap, as far as it will go, and unscrew Cap and the Gun is fully
loaded. Made in four size c Prices $1 / 8$ and $2 /$ according to Ask sour dealer or writeBENTON \& STONE, Lt a.

 Sour "Knots" Grave Gun always Dur-
chan "Enate". Grease. This dane ELute in ole hound

 Rotate Filler and 9 withdraw it



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into Grass o

MENTION of "The Light Car and Cyclecar" when corresponding with aducrlisers assists the cause of economical motoring.


## CONWAY CASTLE

Conway is an ancient fortified town on the North Coast of Wales. It was in Conway Castle that Edward I. was besicged by the Welsh about 1284. In 166 g the Castle was dismantled, not as one might have supposed in the stress of war, but by its owner, an Earl of Conway, who, being of a frugal nature, conceived the bright idea of making money by sclling the lcad from the roofs.
"Monk" Lewis made Conway Castle the scene of his drama, the "Castle Spectre," and Gray refers to it in his poem "The, Bard."

229 miles from London, Conway and its picturcsque surroundings are well worth a visit.

And the visit will be the more easily accomplished if you run on "BP," the British Petrol. For "BP" is a pure, uniform, straight run motor spirit. And as has been amply shown in many racing and record breaking successes, for speed, power, acceicration and reliabilty, nothing equals "BP," the British Petrol.


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 NOW is the time to pick up really exceptional bargains in shop-soiled and secondhand cars. We have at the moment a number of cars enormously reduced in price. Why not call or write and see what we can do to suit your needs at a price you are willing to pay. We can almost certainly find youCASH a rare bargain.

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Mayfair 2965/6.



## The Photoriveg Sensation of the Yearl

## ENTIRELY NEW <br> 13 н. . CLYNO

A
S the outcome of the unprecedented success of the world-famous II h.p. CLYNO, the Clyno Engineering Company have introduced a remarkably attract es, more powerful, and entire'y new car which is offered at the following extremely modest prices:-


The coachwork in deep maroon, with leather upholstery to match, is exceptionally pleasing in appearance, while every feature which has contributed to the unparalleled success of the $11 \mathrm{~h} . \mathrm{p}$. CLYNO-notably the extraordinary light steering. casy gear changing, and wonderful suspensionis retained.

## CLYNO PRICES AGAIN REDUCED on 11 h.p. Models.

CINCE the last reduction announced on Sept. Ist. it has been decided to increase the production of 11 h.p. Models for the 1926 Season and to give the public the benefit in the shape of still further price reductions:-


11 h.p. Royal 2-Seater $£ 225 \begin{array}{ll}1925 \\ \text { lat Sepr. } \\ £ 220 & 1925 \text { New Price } \\ \mathbf{E 2 1 0}\end{array}$
11 h.p. Royal 4-Seater £235 £230 £215
11 h.p. 4-Door Saloon £2TJ £.265 £245

All abave models include many refinements hitherto associated only with ears of considzrably higher price.

The CLYNO ENGINEERING Co. (1922), Ltd. WOLVERHAMPTON.
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OLYMPIA

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LODGE PLACE, ST. JOHN'S WOOD ROAD, N.W.8. LOOKERS, LIMTTED.
STAND
99
OLYMPIA

CASH REFUND

Inquire of any authorised CLYNO Agent re Cash refund
of difference between the 11 h.p. prices announced September 1st and date of this announcement.


THE famous Quality Flag sets the 1 highest stanc'ard of Quality in Motor Oil it has yet leen possible to attain. Every 5, 10, or 20 gallon Drum of Sternol
W.W., every gallon tin, bears the Sternol Quality Flag. Not as a mere decoration, but as a definite guarantee that the oil inside has passed unusually exacting tests for its lubricating properties under the hardest conditions. The decorated Sternol
WW W. sallon tine with W'. W' sallon tin, with
patent press cap.



## ELECTRICAL EQUIPMENT

 with HART BATTERIES.Ask at once to see the M.C.L. Stand-and start your visit by learning about the simplest, most efficient lighting system in use-at

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1st SHOW NUMBER Next Friday (Oct. 2nd)
Containing a complete and detail guide to all the light cars on the British Market with prices and full specifications.
Complete illustrated Report of the 200 -mile Race.
Many special articles.
2nd SHOW No.-Friday, Oct. 9 th
Guide to all the Small Car Exhibits, Accessories and Equipment. Large plan of the Show.
3rd SHOW No.-Friday, Oct. 16ih
The Report Number. Engines, transmission, equipment. suspension, coachwork and acces sories fully dea't with.

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\begin{aligned}
& \text { Order Now. } \\
& \text { Priceasusual }
\end{aligned}
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Offices: 7-15, Rosebery Alcenue, London, E.C.I.

## PURSE AND a PUP.

A Few Examples from 1921 A.R.C. Sports. 1921 A.P.C. Sports $192{ }^{2}$ A.B.C. Sports
1922 A.B.C. Rerent 1922 A.B.C. Regent 1923 Austio "' ${ }^{\prime \prime \prime}$ " Chummy 1924 Austin * 1922 Baylis Thomas, 2-str 1923 Eayliss Thomas, 2tr... $£ 85$ 1929 Belaze-Eraulanw, 2-str. £88 1923 Belsize-Bradshaw Coupe 978 1923 Belsize-Bradihaw, 4-str. 595 1922 Calihorpe, 2 str. 1922 Citroen " ${ }^{2}$ \%" ${ }^{192}$ str 1923 Citrona, 2 str.. 1921 Citroen, 4-str,
1925 Citrocn, 3 -str 1925 Citrocn, 3 -8tr. 1922 Rbode Chummy, 4̈̈ 1 1923 Rhode Chimma 1923 Rhode Spırts.. 1921 Rover "'8.", 2 -str 1923 Rovir ' 8 ," 2 -str. dick 1923 Rovir Clummy, 4-s 1921 Rover " 8 ." 4 str.
 1920/1 Standard, 2 str 19 1/2 Standard 2 atr.
 We alio have a frere Largain
juss orer $2 l 00$, trelves 1922 A-C. 2-str. 1924 Austin $=1{ }^{2}$ " 1921 Ruley de Laxe, 2 -sir. 1922 Riley Sports, 2-str."
1923 Singer "10"de Luxe, 1923 Standard, $\ddot{2}$-str. 1023 Talbot
Many others, aluays 115 60 odd in sloch.

Don't let the "universal financial shortage or the fear of buying a "pup" stand in your way of buying a used car. Our unique terms will dispose of the former. The full price you pay will be allowed against another car, should it not give you satisfaction within 14 days of purchase. This offer with every car we sell disposes of the latter.

## WHAT BETTER GUARANTEE WAS EVER OfFERED.

ALL THE WELL-KNOWN MAKES IN STOCK. An Example:


1922 Rhode, 4-str., Chummy. £7-10-0 down, and 10 equal payments, or cash $£ 75$.
Send for Lists and Te:ms.
Our aver-changing stock demands FRESH LISTS EVERY TWO DAYS. THE CLEARING HOUSE FOR SMALL CARS.
Benmotors, ${ }^{30} 32$, Bigh St, Wand sariturt, S.W.W. 18 .

## TERMS.

From ONE-TENTH down and 10 equal payments to $1 / 3$ rd down and 18 monthly payments. Just state the sum you wish to deposit, we do the reat.
Any new Cars. Immediate deliveries of almost any make.
Our experience in the Used Car Market permits our giving the very best a'lowance against any new car. EXCHANGE.
Definite Allowance par raturn for your present car or motarcycle on ing collaction and delivery charged at $£ 2-10-0$ extra foanydistance. Let us forward lists and term: you will ba pleased and iurprised ta see how assily and plearantly the whole transaction can be complated. Right to your ver door, no matter what distance, SPECIAL NOTE.
We do not deal in all Type from 40-50 Saioonstomotorcyciog. SMALL CARS UNDER 2100andUNDER 12 h.p. Therefore you have the FULL ADVANTAQE OF ourlarge miockandexperlence of thia claes All cars guaranterd gocd mechanically, and open ia A.A. and R.A.C. examination willingly.
Hours 8.30 a m. to 7 p.m.
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MENTION of " The Light Car and Cyclecar " when corresponding with adiertisers assisla the cause of economical moloring.


This week's Issue (Sept. 22nd)
MORE NEW MODELS FOR 1926.
The Six-cylinder Sleeve-valve Vauxhall. A New and Very Novel Lagonda Chassis. An Entirely New 12-35 h.p. Swift. A-C Improvements. A New "Junior" Six-cylinder Flint. An Entirely Re-designed Rhode. A New Overhead-Valve Hotchkiss. A New 2-litre Unic Model. The 1926 2-litre Ballot.
NEW PROGRAMMES FOR 1926.
The Calthorpe Programme for 1926. Wolselcy Prices and Improvements. The 1926 Delaunay-Belleville Models. The Six-cylinder Aster 1 mproved. The Rover Programme. Cluley Cars for 1926 . Talbot Programme.
1926-THE YEAR FOR SIXES.
Salient Features of the Six-cylinder Power Unit and Reasons for its Increasing Popularity. A Comparison with the Straighteight.
NEW SYSTEM FOR APPLYING FOUR-WHEEL BRAKES.

First Details of a Scheme Known as "Syndynic" Operation.
SOME NEW BRAKES AND OTHER PATENTS,

An Ingenious Servo Design. A New Compensator. Simple Cable Layout. A Modified Leaf Spring and a Neat Engine
DELAGE FIRST, SECOND AND THIRD IN SPANISH GRAND PRIX.

Torchy Killed. Constantini Unhurt in 82 m. r.h. Crash.

THE CIRCUIT DES ROUTES PAVEES.
Many Retirements in Event Won by Rost (Georges Irat).
NEXT SATURDAY'S GREAT RACE.
The 200 mile Race at Brooklands. The Only International Speed Event Held in England.
MORRIS CAR TOPICS.
1925 and 1926 Cowley Models Compared. The Second-hand Values of Morris Cara.
MANY NEW MODELS AT OLYMPIA.
A Show of Outstanding Interest and the Special Show Numbers of "The Motor:"

## INTERESTING ELECTRICAL

 PROBLEMS.The Condenser Effect of Magneto Leads in Meial Tubes. Using a Clutch on the Dynamo.

## Turn up at

Twenty-one
When you go to Olympia turn up at Stand 21. We shall be glad to see you. You, on the other hand, will be glad you've come. For among all the interesting things we are promised at Olympia there will be nothing more interesting than the 1926 models of the Remarkable Rhode.
Prominent among these are two new cars-a Sportsiman's model (four-seater) and a Saloon. Every motorist knows that RHODE can build sporting cars (vide the famous two-seater), and this new model will delight every sportsman who is out for something bigger.
The Saloon is characteristic of our 1926 policy-Quality with Eccnomy. You will be astonished at such luxury at such a low price-and, knowing the Rhode record of performance, these facts should persuade you to invest your 1926 Motoring Capital in that gilt-edged security-the

## REMARKABLE RHODE

Special folder on request. Demonstrations arranged now.
THE RHODE MOTOR CO., TYSELEY - BIRMINGHAM. London : Godfrey's, Ltd., 366-36S, Euston Rd.

## 



When you have decided on your car-or before you decide, for that malter ro up into the rew gallery at Olympia and call at Stand 300. There are exhibited items of equipment sou will very probably need-particularly rear screens.
You may choose your model there. No need to go further, for at Stand 309 is the best of all rear scrcens - the simplest to fit. the most easily adjustable, the most protective, the most rigid when fixed. the most easily taken down and "stowed" ("stowing" it consists merely in folding it up on the back seat).
There is no screen made to-day that combines in a single model such allround qualities as the

## Beatonson

## G. Beaton \& Son, Ltd., -MAKERS OF WINDSCREENS SINCE I881Victoria Rd., Willeaden, London, N.W.10. Agents for Tripler. <br> Phane-|1'ill'sden 3540 .



Technically unequalled, commercially right. our service awill confirm that you've done right in placing the order with "ORIENTAL."

The ORIENTAL TUBE Co., Ltd., WEST BROMWICH.


Automatic Windshield Wiper KEEP YOUR VISION CLEAR THE WHEEL REQUIRES YOUR ATTENTION during every inch of the journey if you would safeguard the occupants of your car, and you must keep your vision clear at all cost.

A blurred Windshield inevitably goes hand-in-hand with difficult climatic conditions and a treacherous road surface, a time when you cannot afford to risk releasing one hand from the wheel to propel that old fashioned windshield wiper. It is not worthwhile running the risk when you can install THE THORN AUTOMATIC WINDSHIELD WIPER by spending the wisest guinea you have ever invested.

STOCKED BY ALL THE
LEADING GARAGES
Sole Agents:
Fredk. POLLARD \& CO.. (Bearings) LTD. LEICESTER - ENGLAND.
Agents for Ball and Roller Bearings
THORN'S—THE ARC OF SAFETY

# You cart atale bur your ESTABLISHED 1894 

## A WORD IN SEASON.

苞
ELIVERIES of 1926 models will commence almost immediately. Many new features are incorporated and front wheel brakes are fitted as standard on many cars. We have placed definite orders for considerable numbers of the well-known makes of cars for which we are Agents and can offer preferential deliveries. Our deferred payment and part exchange facilities (Controlled entirely by ourselves) are unique in their simplicity and generosity. Incidentally it does not matter in what part of the country you reside.
Our brochure, "Cars of Repute," is as different from the usual catalogue as chalk from cheese, and will tell you all about the cars we handle and our facilities in connection with them, in addition to other information which will save you money. We should like to send you a copy, free. May we?

## Agencies include:

AUSTIN, JOWETT, ROVER, STANDARD, SINGER and WOLSELEY, in addition to larger types of cars.

TELEPHONES: RIVERSIDE 3161. 3162. 3163.



Memorise that simple phrase in anticipation of your visit to the Show. For on Stand 211, from October 9th to 17th, you will be able to see " easily the best small car in the world," and learn from Austin experts exactly how and why the Austin Seven so far outstrips all



Practising for the 200-Mile Race began in earnest on Monday last, but the weather was all against the drivers. Gordon England's new Ausiin Seven racer came to grief as the result of a skid, but the driver, who is shown (inset) with his car as it appeared just before the smash, fortunately escaped unhurt.


Summer Time Ends. Only one wects more of Summer Time. Winter-according to the clock-will hay its icy hand unon us on the night of Saturday-Sunday, October 3rd and 4th. Clocks must be put back one hour.

Rain Spoils Sport.
Đeavs aud practically continuous rain in many parts of the country on Saturday last caused the abandonment or postponement of several sporting fixfures, including the Brooklands M.C.R.C.s clampionship meeting and the Littlestone-on-Sea speed trials.

This Week.
Under the new regulations, which allow for hair-pin bends in the circuit, the " 200 " may be anybody's race this year, but the practising which has betn going on since Monday provides some fairly obvious clues. This is dealt with fully in our eentre pages. Personal faragraphs about the drivers will interest both racegners and non-racegocrs. but the former will, we hope, make full use of the lap-speed table which has been specially prepared in necordatice with the conditions of the extra long circuit of the track. "Overhauling the Magneto" is the title of the leading technienl article.

## ON OTHER PAGES

Csclecar Comments
540
Sporting Events in Fictures _ 541
The Motorcycle Show

- 542
Overhanding the Magueto
New Cars and Programmea Rich Mixture
Topics of the Day
544
547
552
Practining for the " 200 " 555
Eistory of the 200-Mile Race 556
A Word Ahout the Drivers
Our Readers' Opinions 560
deas for Owners $\qquad$ ...-. 5 s5
LIGHTING-UP TIMES (Rear Iamps) for Saturday, September 26, 1925.
$\begin{array}{lllll}\text { London } & \text {.. } & 7.19 & \text { Edinburgb } & 7.9 t \\ \text { Noweastle } & \text {... } & 725 & 25 & \text { Liverpool }\end{array}$ Birwinglian 7.26 Bristol ... ... 7.2


## Another High-speed Trial.

For the second time this year a bighsueed relinbility run is to be beld at Brooklands. the organizers this time being the Motor Cycling Club. The event has been fixed for October 17th, and the car classes will be run off in the afternoon, starting nt 2 p.m. Further details will be found under "Club Items."

The Motor Cycle Show.
Olympia opened its doors last Monday for the first of the series of Motor Shows. The Show remains open until Saturdas, September 2Gth. Prices of admission are: 10 n.m. to 6 n.m., 2s.; 6 p.m. to closing time ( 10 p.m.), 1s.

## More Three-wheelers.

The armual revival in three-wheeled cyclecars is taking place. The threcwheclers at the Motor Cycle Show aro dealt with in a special article, whilst the possibilitios of the type and its present position are discussed under "Topies of the Day."

## Next Week.

It is not yet too late to order next week's issuc, which will be our first Olympia Motor Show Number. Such issues ns this frequently are out of print on the evening of the day of publication. The principal features will be a special supplement giving detail specifications of all the light cars and cyclecars on the British market (including such essential information as overall dimensions) and a fully illustrated, anthoritative and engrossing renort of the 200 -Mile Race The issue will appear in a special coloured cover.

## Aluminum Bodies Popular.

Far from going out of fashion, aluminium bodies are becoming more popular. The latest G.IW.K. model can be had either with a fubric-covered body or an aluminium finish.

## 1926 Hamptons.

It should be noted that the fivescuter de luxe touring model Mampion at Enis $^{2}$ is an additional model to the standard 12 h.p. four-scater which is still available at $£ 310$. This price includes fourwheel brakes.

## Mind Your Car, Sir ?

Motorists taking advantage of any of the authorized parking-places now linve to submit to a kind of cross-examination by any shabby-genteel attendant who


Sanctuary. White satety circles follow white safety lines at Snaresbrook, Essex.
happens to have been sufficiently fortmate to obtain the job of gumrdian. Out comes a form, and ou it are eutered the make of the car, registered number, time when left and limit of time during which the ear may be left iu the parking-place. As these guardians are seldom necomplished scholars, the operation of filling in forms not only becomes tedious, but may not be altogether accurate.


LIGHT CAR LIMERICKS.-No. 39. Said Horatio Oldhand, "Ha! Ha ! "I perceive that this second-hand car "Isn't quite what I thought-_-" Then a deaf'ning report,

Readers are invited to supply the missing Fifth line. Only post-cards addressed to the Editor and marked "Limerick No. 39" will be considered. A prize of One Guinea is offered for the most apt and original fifth line.
If two or more such lines are received the If two or more such lines are received the prize will go to the sender of the first to be judged. Na judging will be done before next
Tuesday. For resull of No. 38 , see this week's Around the Trade.

## The Scottish Show

A steel frame structure with a threespan roof has been accepted as the design for the new Kelvin Mall. Such a construction is quickly assembled. anul it seems probable, therefore, that Edinburgh will enjoy for one year only the honour of housing the Scotish Motor Show.

Our Crowded Roads.
No fewer than 4 Su vehicles an hour used the LondonBrighton road -an average of eight per minute -according to


Meeting of I.A.E.
The first sessional mecting of the In stitution of Automebile Jingineers will be held on Tuesilas, Oetwber Gth, at the R. $\Delta . C$.

The " 20J."
I'oints to reroember: :The race takes place at Brooklands io-morrow, Saturday, starting at 2.301 1.m. Mompt. Get there early: gond when froun which to view the "hair-pins" will soon be sinapped up. Do not furget your ficldglasses and take with you this issue of The Light C'ar ant Ciyclecar. Order next weelis iscne: it will be brimful of photozraphs of the race the report will be gmphic as well ::s infurmative. Do not forget that it is also our first Show Number.

Chars-a-bancs to Brooklands.
In connection with the 200 Mile Race. the Junior Car Clut has made arranie-
 Great I'orthand Strect, Limblon, W.1, tor a char-i-banes service to run between iondon and Erooktands. Vehicles will lave at $11 \mathrm{n} . \mathrm{m}$. :ltul i2 $15 \mathrm{p} . \mathrm{ml}$., the return fare being T. tial. Seats must be booked either at the atmene address or at the headquarters of the Junion Car Club. the Clock Iouse, Arundel Sirect. Strand. W.C.2. liemittnuces must accompany applications, and the latier should be received at the Club's offices not later than 12 nomil to-day (Friday), after which time reservations cenl be made only at the offieses of Ci. P. Moton Tours, Ifd. The coaches will leave IBrooklands on the return journes at © jo.m.

## NEXT WEEK - OCT. 2nd.

Our First Show Number
200-Mile Race Report. ORDER YOUR COPY.

## INTERESTING

200-MILE RACE CAR.
The A.M.-Halford as it will run to-morrow. The engine is a six cylinder, with o.h. valves, designed by Major B. Halford, who will drive the car. The supercharger can be seen in front of the radiator. A speed of over $100 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. is anticipated.

## Obituary.

111 our renders who are connected with the motor trade will learn with Hreat regrel that two very well-kuown and popular figures in the industry have recently passed awny. Mr. C. C. Baker, who for a long time lans been actively eonnected with the Wolseley Co. on the salles side, died on Saturday. September 12th, when ouly 40 years of nge, as a result of a recent attack of appendicitis.

## More Records for Beart.

On Friday, September 1sih, Beart secured a further bateh of records in Class II2 in his $1,09 \mathrm{~S}$ c.c. Morgan, full details of which are as follow:50 miles, 33 mins. $0 . \mathrm{f} 9$ secs. $=90.57$ m.p.h.; 100 miles, 1 hr. 5 mins. $32.6 S$ secs. $=91.54$ m.p.b. ; 50 kiloms., 20 mins. 42.74 secs. $=144$.St k.p.l. ; 100 kiloms., 40 mins 56.17 sces. $=$ $149.57 \mathrm{k} . \mathrm{p} .1 \mathrm{l}$ : 1 hr., 91 miles 847 yds. $01.4 \mathrm{sm.1.h}$.


Amphibious in appearance only: a Rover Nine in gala dress (see paragraph).

11is loss will be most deeply felt by the Walscley Co.
Mr. II. M. Collier, of If. Collicr and Sons, Lti., manufacturers of Matchless motorcycles nand also of the Matchiess light cirr. died on Wednesdas, the IGth inst., in his (i7th year. Mr. Collier was oue of the nioneres of the motoreycle industry and the founder of the compans'.

## Onl en Route.

If cars passing along Aldante recently had been fitted with scoops similar to those with which locomotives are equipped for picking up water, many sumps might bave been filled with good lubricating oil, for 200 sallons were accidentally liberated in the rond.

## Judge's Ignorance.

It seems almost incredible that a man of the experience of His Honour Judge Irucerg, K.C., could display such extruordimary ignorance as was shown by him at Stoke County Court recently, when he stated, "for some reason or other they have done away with the 20 -mile-an-hour limit." The Motor deals with his remarks in a characteristically energetie manner.

## Racing at San Sebastian.

Cusse, driving a Salmson, won the Cyclecar Grand Prix at San Sebastian on I'riday, September 1Sth. On the next day the Spanish Grand Prix, over the Lasarte cireuit, was run off, their Majesties the King and Queen of Spain and uther members of the Lloyal Family being present. The course was in a treacherous condition, Torchy, in a Delage, crashing into a tree and being killed, whilst Constantini (Lugatti) skidded oft the road and wrecked his car, fortunately without injury to bimself. The race was won by Divo (Delage).

## An Effective Disguise.

The thoroughness with which some folk enter into the gala spirit can be gatuged by the accompanying photograph, which shows how Mr. George Carter, of Newnort, Mon., converted his 9 h.p. Rover into a yacht; we understand, however, that the car is amphibious in appearance only. The ouly dismantling that was necessary was to remore the windsereen and the lamps. The yacht itself is constructed of ealico, streteled over light lnthes. We congratulate the owner and his energetie crew on eapturing the first prize in the Royal Gwent Hospital carnival. It would be interesting to know whether the sails were used ns a supplementary motive power.

## Common Sense and Road Repairs.

WTHIL their attention diverted by the grand schemes for the building of new arterial ronds amil reconstruction of existang highways, it seems that the sumner in which ordimary road repairs are carried out is beiug entirely overlooked by the Ministry of 'Transport. We refer particularly to the methods employed in tarring and the materials used.

Where this work is in progress it is quite a common ocurrence to come across a stretch of road where, instend of sand or stones being thrown on immediately the tar has been applied, the glisteniug, black surface for a considerable distance is left naked, and all tratlic passing the syot has to traverse this, to the detriment of coachwork and clothes.

In many cases, too, the duantity of stomes used is totally inadequate, so that until the tar has finally set-and tinis takes several days in hot wenthertores become coated with a sticky mass, cansing the stones to he picked un and flung anywhere but where they are reguired.


## INTERESTING EXHIBITS.

The ridiculous size of the stones sometimes used when a road is tarred can readily be seen from the striking photograph reproduced above; the stones were picked up from a wood-block roed by a member of our staff.

Again, the type of raid metal employed is frequently much too coarse for the purpose. Instead of pea srit or fine gravel, large granite chips, which play havoe with tyres, are seattered over the surface, while sometimes guite lirge stones are mixed with the material used.

A ease came to our notice recently of a smooth wood-block road which had been tarred and a mixture of aravel and stones thrown ou, sume of the latter
measuring as much as 3 ins. from end to end. How these could possibly improve a wood-block road is difficult to imanine-it is casy, however, to picture the damage they are capable of causing.

We are tempted to suggest that some: of the enormous surplus of the Road Fiund might be spent on a worse object tian educating local road authorities in their work and in seciug that they earry it out in a satisfactory manner.


NOT so very long ago it seemed that the Morgan and the D'Yrsan were the only threewheelers normally in production, but now we bave the Coventry Victor, the Omega, and the Stanhope, all of which have been described recently in this journal.

So far as sheer simplicity is concerned, the Omega aud the Coventry Victor run the Mergan very close, and in the general design of these threc cyclecars many points of similarity may be noted, particularly, with regard to transmission details. Years of continuous reliability have proved that the Morgan method of driving by a bevel and $t w o$ chains is entirely satisfactory ; it is not surprising, then, to find that similar ideas are incorporated in the newer threewheelers

The D'Yrsan is a more elaborate cyclecar, with its iour-cylinder engine and threc-speed-and-reverse gearbox, whilst the Stanhope is unorthodox in almost every respect. So far as I can remeuber, the only previous three-wheeled cyclecar with front-wheel drive was the Phanomobile, a German production which, in its day, was very popular.

Writing of front-wheel drive reminds me of a Singer motor tricycle which belonged to a friend of mine many years ago. With the exception of the controls, the entire mechanism was housed in the front wheel, which was of cast-aluminium, the two sides being held together by bolts.
The engine was of about $2 \mathrm{~h} . \mathrm{p}$. , with an air-cooled cylinder and lowtension magneto. It drove the wheel through a reduction gear, to which no kind of shock absorber was fitted, and it is not too much to say that the unfortunate tyre was quite unable to cope with the many strains which were imposed upon it.
My excuse for mentioning the machine on this page is that my B19
friend and myself tried to make it into a cyclecar! Needless to say, the result was a miserable failure.

My recent criticisms of the new Coventry Victor three-whecler have brought me a letter from the makers, in which my remarks are gone into in detail. I was very pleased to have the letter, because there is nothing like a friendly discussion to clear up a debatable point.
As many of my readers must be very interested in the new prodic tion, I am reproducing part of the Coventry Victor letter here, and I suggest that anybody who wishes for further details should write


The Coventry Victor rear wheel may easily be detached without upsetting the chain adjustment.
direct to Coventry Victor Motor
Co., Ltd., Coventry. The letter
reads as follows:-

## Jear Shacklepin,-

I am very interested in your criticisms of the Coventry Vietor runabout, but I think you have hardly gone into the detaile sufficiently. Taking your eriticisms in the order in which they come:-

1. Reverse.-We have given much thought to this, and finally decided that we would not fit a reverse, but would make the machine so easily steerable qud with such a suitable locek on the stecriug wheels that it could easily be turned round in any road, either under its own juwer, or by the driver, and, in fact, one of these machines can be easily pushed about by a boy of 12 .
2. All the wheels are the same size, and straight-sided tyres ean be fitted Our standara is $27-\mathrm{in}$. by 31 in . tyres, but the marhine which we are exhibiting
at Olympia will he fitted with balloon tyres, all of whish lit whe the same rims, but the rear whed has an extra-large 4 -in. tyre, and, of cuntrse, it gives the acme of cowfort. There are other adtantages with a big tyre, esprecially on greasy roads and tramlines.
3. We are pleased lus:1y that the rear wheel-in fact, all the wheels, are icry easily detachable. 'Tlie spindle fits in a slotted jaw, and the imjustment is by a serew at the back. (buce these serew's are set, the wheel may be taken out and put back in warelly the same place. The lub is not of the eup anderone type; it has a solid standle, on which two roller beatings art: fitted, and the whole is locked by al ring it tach side. The spindle has flats on it, and it is merely heressary to cherbre these flats in the slotted fork and push the wheel up to the adjusting pias. then it may be tightened up without any trouble. We believe this to be a better ensinecring job than nany knock-out spinlle, and we embodied the idea on this account.
4. All parts of the chassis are vers aceessible. The eylinders can casily be taken off for decarbonizing. without disturbing anything else, and the mudguards are not in the was. Also the gearbot may be taken out as a complete unit, for cleaning purposes, if required.
5. We have tried front wheel brakes, but we discarderd them in favour of the band brate on the gearbox, not because they do not sive every sitisfaction in use, but becanse the only chean way of operating front-wheel brakes is by means of cables, and these may wive trouble after continnal use. We have gone out to provide a simple, absolutely reliable machine, and we can say that either the internat-oxpanding brake on the rear wheel. or the band brake, will bold the machine on the steepest hill, and are direct-operated without any complications whatever.

We quite agree with what you say about straight-sided tyres, nud if the public like them we shall be pleased to standardize them.
Tile Coventry Victor Motor Co., Lit.

## Wtleham A. Weaver,

Manngine Director.
I think it will be agreed that Mr. Weaver has replied to my criticisms in a very clear manner, but I still hold that front-wheel lrakes are most desirable on a three-wheeler, if only to counteract the skidding tendency.

## SPORTING EVENTS IN PICTURES


(1) Betwee, ten and fifteen thousand people bave attendsd a single neeting of the Southport Ni.C., the races being held on the sands. The Club's 1926 programme is given under Club Items. (2) The Kent and Sussex L.C.C.'s speed trials at Lewes. A view of the ideal course, showing the competitors' reiurn road and (3) R. H. M. Bean (A ston Martin) getting off the mark.

# THREE-WHEELERS <br> AT THE MOTORCYCLE SHOW. 

TEN COMPLETE CARS AND A CHASSIS ON THE MORGAN STAND-D'YRSAN RACER A CENTRE OF INTEREST-COVENTRY-VICIOR AND UMEGA MAKING THEIR BOW TO THE PUBLIC-THE SHOW CLOSES TO-MORROW

THERE have been very large crowds all this week at the Motoreycle Show, which opened at Olympia last Monday, and, as in previous years, the cyclecar exnibits have proved particularly attractive. Last year only two makes of three-wheeler-the Morgan and the d'Yrsan-were exhibited, but this year there are four makes on riew.
The new-comers-the Omega and the Coventry-Victor-are represented, certainly, by only one model. which makes the exhibit somewhat inconspicuous by comparison with the magnificent Morgan stand. This occupies a commanding position and accommodates ten complete cars and a stripped chassis. The d'Yrsan exhibit in the New Hall is also of an imposing nature, there being three complete cars and a chassis.
Interest naturally centres in the Morgan stand, for, as a pioneer make, it is so well known that the term three-wheeler is almost synonymous with Morgan in the minds of the majority of motorcyclists. As usual, the Morgan exhilits are particularly attractive, the whole range of models is on view and the requirements of every class of buyer can obviously be met.
The Family model, which will seat two adults and two childreu, remains much the same as it was last year. The price, however, is now \&116 with an air-cooled engine and $£ 126$ with water cooling, whilst the equipment has been improved by the provision of a two-panel windscreen and a hood which allows one to enter or leave the car with it raised $\Lambda n$ electric horn is fitted to this model as standard.
Perhaps the most striking exhibit on the stand is a biscuit-coloured Acro model with red wheels, uphol. stery and under parts. The car looks exceptionally neat, and the sports type hood is enclosed in an

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envelope which matches the uphol stery. Another Aero model has a mottled grey finish, with nolished aluminium wheel dises, and this car, like every other one on the stand, is fitted with a mascot.
There are three de luxe models on view, including one painted white, beautifully finished and fitted with a water-cooled Anzani engine. The price is $£ 125$, whilst a similar car can be supplied with an air-cooled J.A.P. engine for £115. Several of the extras have been reduced in price since last year, frontwheel brakes, for example, now being listed at only £4 extria.
Quite close to the Morgan stand, and also in the Large Hall, is the Omega, only one model of which is on view. This has a polished aluminium body, celluloid panelled side shields and bright aluminium wheel discs. Mechanically, it bears a very close resemblance to the Morgan specification, a similar type of air-cooled J.A.P. engine to that used in some of the Morgan models being employed.
Despite its very smart finish, the car has a rather old-fashioned ap-
pearance, which is due, no doubt, to the fact that tho bonnet and scuttle slope downwards at a rather sharp angle from the windscreen to the dummy radiator, on the front of which the word Omega" is written in red letters. The back of the car also has a somewhat unusual appearance, the tail being rounded rather like the Aero Morgan but having the rear portion absolutely flat and painted black so that it may be used for a number-plate. The car is completely equipped and the price is the same as that of the Morgan fitted with a similar type of engine.
The Coventry-Victor, which is shown on a stand in the new Hall, resembles the Morgan so far as its transmission is concerned, but a 7 h.p. side-valve horizontally opposed two-cylinder CoventryVictor engine is used in place of the $V$-twins common to all the Morgan models. The appearance of the Coventry-Victor threewhecler which is exhilited is particularly smart, the car being painted deen red and havina black wings and very pleasing lines.


The forward part of the car is somewhat reminiscent of a Jowett, whilst the rear portion in elevation bears a resemblance to the Deemster two-seater. This part of the Lody has been planned to give easy access to the rear wheel, and the designer has succeeded in this respect whilst also obtaining a very nice appearance.

(Above) The Omega and (right) the Coventry-Victor, which have made their first public appearance this week. They both have complete allweather equipment.
'Whe rear wheel fixing is in genious, a very large internal-expanding brake is provided, and leather gaiters are fitted to the springs. The seating arrangements are eleverly planned, providing ample legroom and a large space hehind the squab for carrying lugsage or parcels. The hood and side curtains are smart and serviccable, whilst the door is large enough to afford casy entry and egress. The facia-board and controls are nicely arranged, whilst a clock, speedometer, oil gauge and Lucas switchboard give the former a fully equipped appearance.
Quite close to the CoventryVictor stand is the d'Yrsan exhibit. Of French manufacture, these little cars have an unusually claborate specification for a threc-wheeler, light car practice having been followed in every respect except, of course, that final drive is by chain.

In place of the two-cylinder engine, which figures on all the other cyclecars exhibited at Olympia, there is a four-cylinder o.h.v. water-cooled Ruby unit with a three-specd-and reverse gearbox built up behind it. A propeller shaft is used to take the drive from the gearbox to the bevel box, and cae rear chain, of course, suflices.
The back-wheel fixing is of a very convenient and scrviceable nature.
most satisfactory service to be obtained from a set of tyres.

A few minor modifications have been made to the chassis since last year. Four dogs arc used instead of two for the rear-wheel drive, and an improved type of distance piece is fitted on the rear spindle. The rear springs have also been modified, whilst, instead of being paralIel as they have been in the past, they are splayed inwards.
At the forward end of the car one notices a number of small changes. The wheel bearings now have larger ball races than they had last year, whilst the method of operation of the front-wheel brakes

allowing a change of wheel to be made with very little delay, ali that is necessary being to undo two nuts, withdraw the spindle, and take out the whecl, leaving the sprocket and chain, etc., in place on the fork end. The design is similar to that introducod several years ago for providing interchangeable wheeis on motorcycles, and in that capacity, as well as on the d'Yrsan, it has given complete satisfaction. A great advantage of the arrangement is that any of the wheels may be used on either side at the front or at the rear, thus allowing the

has been slightly changed. Stouter brake cables are used and the cam spindle levers are also longer and stronger. The steering-gear box has been strengthened and made fully acljustable for end and side play.
The exhibits consist of a stand ard chassis, a touring two-seater, a sports two-seater, and a supersports racing model. The prices of the touring and sports types are $£ 173$ and $£ 183$ respectively, an electric starter being provided in each case. The touring car shown has very distinctive bodywork, being made of very light three-ply wood covered with grey leather cloth. The bonnet and mudguards are of burnished aluminium, finished with $\Omega$ coat of transparent varnish. The sports model is panelled entirely with aluminium sheeting, which is buffed and varnished. In each case a neat hood and windscreen are provided.
The super-sports. model, which has a specially "hotted-up" engine and which is streanlined in an effective if somewhat quaintlooking mauner, costs $£ 190$, and is very fast indeed. On this model no starter is provided. it being thought that the weight of the starter and its various accessories is not desirable on a car built almost solely for speed work.

## OVERHAULING A MAGNETO.

HOW AN AMATEUR MECHANIC WITHOUT THE AID OF SPECIAI TOOIS MAY TRACE MAGNETO FAULTS AND RECTIFY THE VARIOUS MECHANICAI, TROUBLES WHICH ARISE.


A Lucas magneto dismantled. (1) Where the carbon brush (12) fits. (2) The magnet. (3) Where the brush (21) fits. (4) Lubricator. (5) Ball race. (6) Slip-ring. (7) Armature body. (8) Armature windings. (9) Distributor wheel. (10) Distributor carbon brush. (11) Contact-breaker housing. (12) H.T. collector brush. (13) Safety gap point. (14) Contact-breaker cam ring. (15) Distributor body. (16) Advance and retard plunger. (17) Contact-breaker centre screw. (18) Contact-breaker assembly. (19) Contact-breaker back brush. (20) Ball race. (21) Armature body earthing brush.

FOR some reason which it is very difficult to explain, most onmer-drivers are afraid of their magnetos; they believe them to contain all manner of alarming complications which it would be fatal to disturb and which might involve them in very heary expense if they were tampered with in any way.

As the illustrations on these pages show, however, the contents of a magneto are of a very straightforward nature. It is almost impossible to dismantle or assemble them in the wrong order. Of course, the need for taking a magneto apart seldom arises, as most troubles are of an electrical nature, which can be remedied only by an expert, with the aid of special appliances. At the same time, it often happens that magneto ailments are due to some such mechanical faults as broken or sticky brushes, worn ball races, an oily interior, or, perhaps, a loose part

It is difficult to generalize on the subject of dis mantling magnetos, as there are minor constructional differences in the case of the various nokes, but it will be found that the principle, and the method of its execution, is very similar in most instances.
Nearly every onmer-driver will have learned that it is advisalle-in fact, necessary-from timo to time to take off the distributor cover and make sure that the carbon brush is free in its guide and not unduly worn. At the same time the brass segments which are let into the fibre body of the distributor may be polished with metal polish, or, if they are pitted, they can be rubbed down with emery cloth.

> One of the latest American Bosch magnetos with the distributor cover and contact-breaker removed. The set screw on the left is used to secure the contact-breaker in place.
butors require little or no attention, but it is wise when the points show obvious signs of having been burned away to renew or adjusi them so that the normal clearance of some 30 thousandths is regained. This, however, is much easier said than done. What most mechanics actually do when they see signs of wear is simply to fit a slightly longer central point

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Some magnetos, of course, have spark-gap distributors, in which a spark jumps from a suitable point mounted on the insulated body of the distributor yoarwheel to similar points secured inside the distributor cover and connected by the high-tension wire to the sparking plugs. These "jump spark" distri-
and thus compensate not only for the wear on the old centre point but also on the other four.
Apart from the distributor, the contact breaker is the only part of a magneto's mechanism with which most folk have even a passing acquaintance. It is removed by undoing the hexagon-headed screw in the
centre and then applying a little force to the side of it with a screwdriver to pry it off its taper. Having removed the contact breaker in this manner, examine 1he brush at the back of its body and also clean the brass disc against which the brush operates.

The "platinum" points should be examined, and, if necessary, clenned or renewed, the small screws which sccure tho littic pieces of clock spring should lse checked to make sure that they are tight and any Hease or dirt removed with a feather, a pipe cleaner, at small paint brush, or something of the kind. On replacing the contact breaker, note that the points npen the required nmount (usually . 025 in. ), and also mike sure that the gap is the same on each of the s.gments. If it is not, one of the segments (if of the detatchable type) will have to be raised or lowered by filling a shim or removing some metal.

Assuming that the owner-driver wishes to investigate firther than the distributor and contact breaker, he misy remove the domed cover which encloses the upper part of the drive end of the manneto, and, howing done so, will either disclose the slip-ring (the carhon brush coming away with the cover), or, alternatively, the carloon brush holder. This holder is secured hy two screws; when these have been removed, it will be found easy to lift the brush holder away
The carhou harash should be absolutely free from
oil, and it should work freely in its guide. The slipring of the armature on which it bears, and which can be secn down the hole from which the brush holder has been extracted, should also be clean and brightly polished. If it is dirty it can be cleaned with metal polish applicd to a rag and held against the slipring with a picce of wood whilst an assistant turns the starting handle.

Having made sure that the high-tension brush which bears on the slip-ring is in order, the ownerdriver who has also checked the distributor and contact breaker will have gone over all the points which may be regarded as "external" causes of trouble.
Internal" troubles are investigated by first removing the magneto from the engine and then taking off in turn the distributor, the contact breaker, and the high-tension carbon brush. It is then necessary to examine the instrument very carefully indeed-including the underneath portion of it and remove any screws which look as though they might be brushholders (they are generally easy to identify on account of being either brass or nickel-plate). After this has been done, the screws which hold the driveend housing can be taken out, and the armature can then be withdrawn. Place it on the bench and immediately place an iron or stecl object across the magnets; this will prevent magnetism being lost

Attention may then be turned to the armature


An Eisemann magneto in section. In principle the Eisemann is identical with most other maguetos, but it possesses the unusual feature that the slip-ring is at the same end of the armature as the contact breaker. The parts are:(1) Distributor carbon brush. (2) Distributor body. (3) Distributor cen.re brush. (4) H.T. collector brush. (5) Contactbreaker centre screw (6) Contact-breaker body. (7) Contact-breaker cover clip. (8) Ball race. (9) Slip-ring (10) Earthing brush. (11) Ball race. (12) Condenser. (13) Armature windings. (14) Oil groove. (15) Oil wick feeding revolving spindle above (16) A magnet- (17) Distributor gear wheel. (18) Safety gap point.
itself; it is a very close fit in its tunnel, which lies between the magnets, and if its bearings have become worn it uay show signs of having rubbed against the tunnel. If this is the case the bearings will need renewal. The slip-ring must be polished, and it is well to examine its rulcanite insulating flanges to make sure that no eracks have developed. The whole of the armature must be cleaned carcfully with a soft rag moistened with petrol and any visible soldered connections examined to make sure they are tight.
Having done this, the armature may be placed on one side whilst its tunnel in the magneto body is cleaned, and it should then be replaced. Be careful when reassembling to make sure that the gearwheels which drive the distributor are meshed correctly: These have to be "timed" so that the carbon brush makes contact with the appropriate segment at the moment the platinum points break. The distributor wheels will invariably be found to be marked with small dots, and if the marking is examined before dismantling reassembling should be easy.

## Testing the Magneto

Having returned the magneto to its former state, adjusted the points and replaced all the brushes, it should be found that there is sufficient magnetism to make it difficult to turn the tapered end of the armature shaft with the fingers, whilst when the coupling or sprocket is attached to the taper so that it may be gripped with the fincers and the armature given a sharp twist with the hand, a healthy snark of about a guarter of an inch in length should be obtainable from the appropriate high-tension wire.

It may be well to conclude by making a few sug. gestions with regard to simple ways of testing a magneto so that the amatcur mechanic who has stripped down a defective one, cleaned it, attended to its brushes, and made sure to the best of his ability that everything is in order, may lee certain that it is the magneto itself and not the external wiring which is at fault before sending the instrument away for skilled attention.

## Tracing Defects

The first test consists of removing the distributor cover and placing or holding a screwiriver in such a position that part of it is in contact with the body of the magneto, whilst the tip comes within about $\frac{1}{b}$ in. of the carbon brush when the armature is rapidly "flicked" over hy hand. If no spark is seen, the brush holder on the other end of the magneto may be removed and the screwdriver held so that part of it tonches the body and the lip comes within in. of the slip-ring. Revolving the armature should cause a spark to jump from the slip-ring in the screwdriver, aad if it does not do so, everything clso being apparently in order, it may be taken for granted that an electrical defect exists either in the armature or in the condenser, and the rectification of this will have to be put in the hands of a specialist.

We are indehted to Messis. W. I). Finster and Co., magneto specialists, of 26, Hampstead Toad, London, N.W.I, for providing us with facililies for taking the photographs which illustrate this article.

# OUR THREE SPECIAL SHOW NUMBERS. The First will be Out Next Friday. 

TTHE first of the three Special Show Numbers of The. Light Car and C'yclecar will be published on October 2nd, in which issue will also appear our exclusive report of the 200 -Mile Race. This report in itself is more than sufficient to ensure a record demand for the issue.

In our first Show Number last jear we gave a considerable number of pages-as our readers will re-member-to publishing complete specifications, with prices, of all the light cars and cyclecars on the British market. This feature, brought up to date and made as accurate as nossible, will figure in our issue dated October 2nd this year. It will form the only compact and complete guide to the more popular types of car, and readers will be very well advised to retain their issues for reference.

Among the information given concerning the cars is, first and foremost, the price of each model, the type of engine used and its dimensions, the make of carlurelter, sparking plugs and electrical equipment, the number of bearings which support the crankshaft. the type of transmission, the capacity of the petrol tank and the sump, the approximate m.p.g. of the car, and a quantity of other equally useful information.

## Accessories and Equipment,

The second Show Number, which will be published on October 9th-the day the Show opens-will form a comprehensive guide to all the small car exhibits and to the accessories and equipment likely to be of interest to the small-car owner.
It will be an invaluable issue for all prospective purchasers to study before going to the Show. whilst it will help those who are journcying to Olympia merely as interested visitors not to miss any of the more important exhibits. It is so easy when one в22
goes to the Show to find that the day has passed and that there are still many things one wishes to see.
Readers who read carefully through our issue of October 9th and mark on the big plan which will he published right across the centre pages the stands which they do not wish to miss, will find, if they take either the complete-issuc or just the centre pages, which can easily be torn out, with them to Olympia, that they will be able to see the things which interest them most with a minimum of trouble.

## The 1926 Models Analysed.

The third Show Number will be published on October 16th-the day before the Show closes. As in previous years, its outstanding feature will be long analytical, semi-technical articles written by members of the staff of The Light C'ar and C'yclecar and describing the various features of the exhibits which impress them as being either new or indicating tendencies in design.
Last year, it will be remembered, these articles were of an exceptionally interesting nature, separate articles being given to engines, transmission, eauipment, suspension, coachwork and accessories. They will be prepared this year, as the result of our own observations at Olympia, and they will be actually written on the spot. Last year they proved exceptionally interesting to readers who were not able to visit the show, whilst they made i very special appeal to our Overseas readers- the number of whom, judg. ing from the letters which we receive, must be very large indeed.

Another feature of the third Show Number is a description of light ears which are to be seen in London showrooms but will not be on view at Olympia.

## A NEW STRAKER-SQUIRE MODEL.

CRAB TRACK-HYDRAULIC BRAKES-FOUR-SPEED GEARBOX.


The off-side of the engine presents a neat appearance. The Marles steering box, water piping and clean exhaust manifold are features. The disc on the left is the spare wheel carrier.

TROL the 1926 season an entirely how model Straker-Sguire light enr hos heen produced. known as the
$11.2 s$ hip. it has an chine of fis mm. hore sud 110 mm . stroke, giving a eapacity of 1.460 e.c. Flant the ear is a fult-sized joh ean be gathered from its 9 -ft. whechase, $12-\mathrm{ft}$. frin. overall leugth and $4-\mathrm{ft}$. 1 f -iu. track.

Dealing with the power unit first. this is of the four-cylinder type with overhead valves opernted by push-rods, adjustment being provided on the rockers. A east-aluminium enver monlects the valve gear. A force-fect lubrication system is used for the valve gear and eugine bearings. The crankshaft is of the three-bearing type nind the eylinder head is detacliable with polished internal surfaces.

## Neat Oil Filter.

On the off-side of the crankense are mounted the dynnmo and magneto, driven in trandem from the timing gear. 'Ihe electric starter is spi;nt-mounted on the near side and the Solex carburelter is placed high un on the eylinder block on the same side. On test one of these engines is elaimed to have developed 32 b.h.n. and to have "revved" up to 4,300 r.p.m. Selow the carhnmetter is a cylindrical aluminium casting containing the nil filter, which can be removed for clenning liy undoing: none large wing nut. The oil pump is immediately below the filter and a leveltap is siturted in the crankease.

Bolted to the rear end of the crankense, to form $n$ unit, is the four-speri-and-reverse gearbox. Tho ratios are $16 . S$ to $1,10.2$ to $1,7.2$ to 1 alld 4.5 to 1, whilst reverse is 20.3101 . Righthand control is provided for gears and hand brake. The cluteh is of the cone type; the drive passes from the geartyox through the onels propeller shaft. having flexibie dise joints, to the semifonting rear axle.


Spiral-bevel gears and a differential are included in the design, torque being absorbed by $n$ channel-section arm bolted to the axle casiug and suspended from a chassis cross-member. Scmielliptic springs are fitted nil round, those at the rear being underslung.

A crab track is employed, the front wheels being 2 ins. farther apart than the rear ones. Marles stecring is fitterl. which, as is well known, works on the cam principle and is free from the usual backlash trouhles for rery long periods of service. The track-rod is adjustable and the throttle and ignition controls are situated in a boss above the steering wheel.

## Hydraulic Brakes.

Tyre equipment is optional, either low-iressure $29-\mathrm{in}$. by $4.95-\mathrm{in}$. Dunlop or 760 mm . by 90 mm . if highpressures are preferred. The wheels are of the steel-spoked variety, the spare wheel being carried in a well behind the off-side front wing.

Four-wheel brakes of the Alford atis Alder type are standard, but-Whitehead hydraulic operation is employeal. The pedal is connected to a large oil cylinder, which, in turn, forces nil to four stibsidiary celinders coupled in the brake rods. The filler for the oil system is under the bonnet: by serewing diown one wing nut the four brakes may be adjusted. On each hrake arm there is a nut for indenendent setting.
(Above) The 11-28 h.p. StrakerSquire touring model. The rear seat wirds=reen and sections of the side screens are not shown. (Centre) The oil filter, starter and hydraulic brake cylinder are seen from left to right.

The braking system is ene of the most notable features of the car, no flexible oil pipes being used, as the cylinders are carricd on fixed positions. Power is transmitted by rods, which, of course, accommodate axle morements.

Standard body colours are grey, red or blue with leather upholstery to match. The front seat and nerlals are adjustable, and an Auster rear screen is supplied, items which are condncive to comfort. The facia board is fully equipped and the dynamo cut-out is mounted behind it. The electric lighting and starting ssstem is a Smith, the battery being slung below the foor boards on the left-band side of the propeller shaft.

Metal-framed side curtains are supplicd. storage space for these being provided behind the rear-seat squab.

Runuing boards of ample width are fitted: large wings and leather valances should ensure adequate protection from mud. Rain-excluding flaps are fitted to the hood, which fill in the spaces above the rigid side curtains.

## Equipment Details.

Bulb and electric horns, speedometer, clock and a fire-lamp set are items of the equipment, and an air strangler for the carburetter will be provided on production models. The radintor follows Straker-Squire practice, but the honnct will probnbly be painted instead of polished aluminium, as on the e:ar illustrated. Tecalemit lubrication is provided for chassis details.

Prices are as follow:-Four-seater
 £400: four-door saloon. £4f5: sports four-seater. $£ 365$ : chassis, $£ 300$. Examples of these cars will be on view at the shontonms of Straker-Sqnire, Ltil.. 17:5-179, Oxford Street, London, 15.1 , during and after the forthcoming Motur Show.

## NEW AND GREATLY IMPROVED RHODE MODELS.

DETAILS OF TWO INTERESTING CHASSIS
WHICH ARE TO BE PRODUCED FOK 1926 AS AN ADDITION TO THE EXISIING " LIGITT FOUR" RANGE.


FOR a long time the Rhote Motor Co. have held a very envinble position in providiug n solall car with a first-class road performance. They are now supplementing their existing range by a new chassis which prorides considerably increased body space.
The chassis frame has been increased in dimensions and full cantilever springing arranged for the rear nxle, whilst the engive has been modified in detail with consequent improvement. Half-ellipties are now used at the front.
The new chassis are to be termed the 11-30 b.p. Standard and the 11-30 h.p. Sports, which are almost identical except that the Sports has a specially tuned engine, providing a better turn of speed on the road.

The engine has an overhearl camshaft ouerated by a vertical shaft driven from the cramkshoft, not the least interesting feature being the lubrication system employed. The fiymhecl fits closely to its casing, dipping into the oil and acting as a flinger, which forecs oil through a large-dinmeter pipe into the camshaft housing. which is, in effect, a reserroir, whilst a tube conneeting from it to the front housing has boles immediately nbove each cam, through which oil fiows by gravity These holes have split-pins passing through them. the continnal morement of which keeps the whole assembly clean.
In place of the semicircular cover to the valve mechanism previously fitted to the Rhode engine a rectangular cover is now fisted. It is anchored to the head by six bolts. in order to make the assembly oil-tight. In this mntter great care has been taken, and recesses are formed in the ends of the cover for felt pads as ail retainers.
The change in the section of the cover has been made possible by the ndoption of a considerably improved method of valve operation. The exhaust and

FOUR-SEATER
SPORTS MODEL.

Rhode enthusiasts will note several alterations in the design of the sports model, including new type front springs.
inlet rockers are mounted on bronze brackets on separate sides of the head. These brackets are bolled to the head and contain steel pins, upon which the rockers oscillate, ench rocker being bushed with phosphor-bronze-a very much larger bearing surface is Ufereby provided than hitherto.

Valve adjustment is provided by means of small enps containing shims fitted to the ends of the valves. Each rocker has a torsional return spring fitted undernenth its arm and round the body of the bracket. thus reducing somewhat the necessity for extra strong valve springs.

The camshaft has been redesigned to give improved valve timing with $n$ bencficial effect upon engine power and quietness of operation. The cylinder head is spipoted to the cylinder block, and the holding-down bolts have clearance holes, whilst the ports to both inlet and exhaust valves have been redesisned with consequent improvement.

The inlet passages are cast-in with the cylinder head, and are completely water-jacketed, the four ports forming with each other an obtuse $\nabla$ in a horizontal plane, which merges into $n$ central passage to which the carburetter is bolted direct. Sy this meaus a very


THE RHODE $\qquad$ An all-enclosed body with very clean cut lines. It is SALOON. mounted on the 11.30 b.p. chassis.
good "tick-oser" for the engine has been obtained.

The exhaust system now ruus through a similar series of pasmiges, although the angles are somewhat more acute, the whole being east in one with the head. Aluminium pistons replace the cast-iron ones used for $102 \overline{2}$, and are of the semi-slipper type in shape.

In order to minimize vibration the connecting rods are now made of durnlumin, which, aldhough following the general lines of the stuel ones which they replace, have a slizhtly larger section, the weight, Jowerer, being considerably less than with the sterl type The further addition of a stiffened crankshaft allows hicher engine revolutions than previously in be attained with the preat adrantage that no iscrease in vibration is felt

The clutch has alwnys heen n good fenture of the leborle, with its light, single-plate free member, and remains practically unaltered for 1026, but a larger thrust benring is lneated on the crankshaft to allow for pressure when the clutch is disengnged.

The gearbox is entirely now and of Shode manulacture, providing four speeds and reverse with centre change It follows the previous Irlinde practice in that it is bolted direct to an extension of the crankease, forming one complete unit with the engine. $\Lambda$ feature which will be appreciated by the discriminating motorist is that the cover is spignted to the box, and a positive drive for the speedometer is provided on its side

The unit is mounted on the chassis frame at three points, at the front by a trumbion surroumding the crankshaft bearing, and at the rear by extensions of the flywhel casing bolted direct to the main chassis frame.

A larger universal joint of the fabrie type has been fitted to the forward end of the enclosed tubular propeller shaft The rear axle is split vertically and has spiral-bevel gears and semi-floating axle shafts, whilst the bearings for the bevel pinion have been duplicated and increased in size.

All Rhode models are now equipned with front-wheel brakes, which operate on 12 -in. drums. They are of the in-ternal-expanding type, the pednl apply-

Niew Models, etc. (contd.).
ing both front and rear-wheel hrakes, whilst a hand lever applies separate shoes to the front wheels onls. A master adjustment is fitted on the frout of the pedal and one mut suflices for adjustment of either front or rear lirales.

For the comfort of the driver and bassemgers increased scating accommodation has been provided on the larger londies mow fitted, and a new feature uf the Thode is the inclusion of adjustable front seats. All four-seater models are filtol with four doors, which are wider than in previnus models and have porkets sealed hy flaps.

Individual seats and two doors are provided on all two-seater models, with a space at the rear of the seats for the accommodation of luggage. The windsereen equipment is similar in design to that on the four-seater cars, and a three-fuarter light in the hood ensures good visibility. An extra large double dickey seat is provided on all two-senter inodels.
$\Lambda$ further immovation is the istrotuction of a new four-seater sports earthis has a special body mounted on the 1926-type chassis, and is built with low lines. a $V$ windsereen considerably enhancing the sporting npnenrance. The ton halves of the windsereen are individunlly adjustable. For easy access
two side doors are fitted on each side of the bndy, and in keeping with the genersl contour the dash is also of $V$ section. Pirskin upholstery and a carpet matching the colour of the leather complete the interior of the car

A four-door saloon of a very luxurious type is an addition to the Ithode ranze.

The latest prices are as follow:-

| 11-:\% S h.p. sports two seater | £3อิว |
| :---: | :---: |
| 11-38 h.p. sports four-scater | £375 |
| $11 \mathrm{~h} . \mathrm{p}$. light four-seater | £22) |
| 11-30 h.p. two-seater | E275 |
| 11-30 h.p. four-seater | £285 |
| 11-30 h.p. saloon | £350 |

5̄̄5

## 5-

 245
## 75

350

he reur. The wheels are of the detachable wood-spoke type, shod with 775 mm . by 145 mm . Aichelin Comfort tyres. Sbock absorbers front and rear are fitted as standard.
The equipment includes a 12 -volt lighting and starting set, five lamps. spectometer and clock. The wheelbase is 9 ft .8 ins. and the track 4 ft . 5 it ins., whilst the weight is 16 cwt. Top gear whilst the weight is 16 cwt. Top gear
ratio, $5 \frac{5}{3}$ to 1 .
The chassis is priced at $£ 295$ at the present rate of exchange, and the standard bodies available are a tornedo and a four-door saloon, the inclusive prices of which are $£ 3 S 5$ and $£ \neq 50$ respectively. The saloon is very roomy and presents an attractive apparance. In addition to the touring-trne chassis a sports model, priced at $£ 350$ will be arailable next year. This follows closely the touring type in its general laynut, but a Panliard dinal carburcttez and certain other inodifications are claimed to give it a speed in excess of $60 \mathrm{~m} . \mathrm{g} . \mathrm{h}$. In this model the starter motor is located at the forward end of the crankshaft. The London showrooms of Messrs. Panhard and Levassor are at 147, Great Portland Strect, W'.1. THE SALOON MODEL.

r"
WIIL chicf altemtion in the touring model Panhard chassis for 1926 is that the eylinter bore lias been juerased to 67 mom., the total capacity now being 1,480 c.c. and the rating 11 15. h.n.

1 slecve-valve mogine is used ns hitherto and the drive is through a cone Gutch rumnint in oil to a contrally enntrolled four-speed gearhox. final drive bein; by spiral bevels and differential.
 Eugine lubrication is by the Panhard
duplex system, and thermo-siphon cool-
ing is used.
The four- wheel brakes are operated
simulencously by either the lever or
nedal, nud largediameter stecl tubes are
used, instead of rods or cables, for the
brake controls, ample adjustment being
brovided.
Suspension is by half-ellintic springs
in front and reversed guarter elliphies at ing is used. Engine lubrication is by the Panhard
oplex system, and thermo-siphon cool-
is used.
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brake controls, ample adjustment being
provided.
Suspension is by half-elliptic splings
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Suspension is by half-ellintic springs
in front and reversed guarter elliptics at



New Models (contd.).

## A NEW 13 H.P. CLYNO.

FOUR - CYI.INDER
1,496 c.c. ENGINE

AN entirely new model has just been added to the Clyno bromramme. This is to be known as the $13 \mathrm{~h} . \mathrm{p}$. model and has a four-cylinder 1,496 c.c. engine. Tho unit is of the sidevalve type, having a three-bearing crankshaft and a bore and stroke of $\mathbf{6 9} \mathrm{mm}$. and 100 mm . respectirely.
$\Delta$ fabric-lined internal-cone elutch is used nud a three-speed right-hand-controlled gearbox is mounted on the forward end of the torque tube. $\boldsymbol{A}$ spiralbevel rear axle of special Clyno design has been produced for this model, its priucipsl feature being the use of very large-diameter bearings.
The zeneral specification of the car is extremely modern, and naturally includes four-wheel brakes. Suspeusion is by half-ellipties at the front and quar-ter-clliptics at the rear, whilst Dunlop balloon tyres of 28 ins by 4.95 ins. are used.

A feature of the front-wheel brakes is that a greater percentage of the braking effort is applied to them than to those at the rear when the pedal is depressed. The controls are compen-


The new 13 h.p. Clyno chassis, showing outstanding features.
vision for either a drop or fixed head on the coupe. This car should be very popular, particularly among professional men.

The equipment supplied with these new Clyno models is very comprebensive, all the following being included in the standard specification: speedometer, eight-day clock, dash lamp, radiator thermometer, Smith automatic screen wiper, driving mirror, petrol gauge, motor-driven electric horn, spring gaiters, spare petrol can and holder. rigid side screens and a three-pancl windscreen. On the four-seater models a luggage grid and Auster rear screen are also provided.

The prices of these new $13 \mathrm{~h} . \mathrm{p}$. models are as follow, whilst we also give the nltered prices of certain of the $11 \mathrm{~h} . \mathrm{p}$. models. It should be noted that the


The new Clyno engine, which is rated at $13 \mathrm{~h} . \mathrm{p}$. , has side-by-side valves and a three-bearing crankshaft. Positive component drives are provided. The gearbox is mounted on the torque tube.
sated and interconnceted, whilst adjustment is particularly simple. The hand brake operates a separate set of shoes in the rear-wheel drums, so that there are actunlly six brakes in all.

The bodywork available out the $13 \mathrm{~h} . \mathrm{p}$. chassis is of an excentionally luxurious nature, considering the prices of the varions models. Interesting features include the use of adjustable seats on the four-seater and soloou and the proB26
prices of the 11 h.p. standard models remain unchanged:-

| 13 | h.p. chassis $\ldots$ | $\ldots$ | $£ 172$ | 10 |
| :--- | :--- | :--- | :--- | :--- |
| 13 | h.p. two-seater | $\ldots$ | $£ 245$ | 0 |
| 13 | h.p. four-seater | $\ldots$ | $£ 260$ | 0 |
| 13 | h.p. coune | $\ldots$ | $\ldots$ | $£ 285$ |
| 13 | 0 |  |  |  |
| 13.1. | saloon | $\ldots$ | $\ldots$ | $£ 298$ |
| 11 | 0 |  |  |  |
| 11 | h.p. Royal two-seater | $£ 210$ | 0 |  |
| 11 | h.p. Royal four-seater | $£ 215$ | 0 |  |
|  |  |  |  |  |
|  |  |  |  |  |

## STANDARD CARS FOR 1926.

Improved Coachwork the Main Features.
O NLI minor alterations have been Chassis for the coming year, the main feature being a cover fitted to the over-head-valve gear of the engine. The push rods are partially enclosed by a steel pressing, which is attached to the cylinder block, suitable holes being formed for the admission of the sparking plugs. Mounted above the head and fitting over this cover is a further casing, located by two knurled nuts, which provide ensy detachability when adjustment or inspection of the valve gear is required.
A greatly improved body design in the Kuowle four-seater and Coveutry two-seater is apparent, both bodies being of more roomy proportions, while the four-seater has two individually adjustable front seats with hiuged squabs. The radiator, bonnet and body sides have been raised somewhat, aud four doors are now litted, all of them having poekets formed on their interiors. 'The doors are upholstered for the upper part in leather, while the bottom is covered with hair carnet to form a kickstrip.
The body generally is higher and provides more complete weather protection than bitherto, while the rear portion is cut down somewhat in order to accomnodate the hood when folded; this component now lies flatter and provides a considerably better appearance.

A new and interesting feature is the side-sereen arrungement. Celluloid panels, having darrow frames fitting by dowels into the top of the door frames, have a swinging arm located in the rearmost dowel to each sereen. A split collar on the dowel and embracing the swinging arm allows for angular and outward movement of each screen, which can be locked in any desired position by tightening the thumbserew provided.

On the two-seater there is now no quarter light, but the door sereen is slightly longer than the door (of tho same type as the four-scater), and when used in conjunction with the two rear lights in the hood provides quite effective vision.
The dickey on the Coventry twoseater is now upholstered in leather to match the front sents, nnd is of more comfortable proportions than hitherto.
On the four-seater the spare wheel is carried at the rear with a strap beneath the tyre, and on the two-seater in a well on the off-side front wing and running bonrd.

The facia-board equipment has been

## New Madels (contd.).

considerably aupmented by the addition of a clock, dash lamp and ash-tray on the facia board, while a dash ventilator, operated by a knurled serew on the facia board, is situated in the scuttle. All instruments are on the off side of the car, an extra large cubby-hole being provided
on the near side. The headlamps are carried on a tubular cross-member and are also attached to the wing stays. This not only gives a firm fixing, but presents a very neat appearance to the car.

Very comprebensive equipment is provided, including a driving mirror, fivelamp lighting and starting set, electric
horn, hood envelope, petrol can and holder, and spring gaiters.
The prices are:-
Chassis
Coventry two-senter
£185
Knowtry ero seater £225
Knowle four-senter ... ... £295
Piccadilly saloon ... ... ... £255
The makers are: 'The Standard Motor Co., Ltd., Coventry.

## A REDESIGNED SWIFT.

## IMPROVEMENTS IN THE

 10 H.P. FOUR-CYI.INDER CHASSIS.ППE new 10 h.p. Swift is a distinct d adrance on existing models and follows very elosely the lines of the new "iwelve" in that unit construction for the engine, clutch and gearbox, and fourwhel brakes are now incorporated.

The dimensions of the engine remain the same, i.e., 60 mm . bore and 97 mm . Aroke, siving a total cubic capacity of $1,19) 7$ c.e., with an R.A.C. rating of under 9 h.p., thus the tas is $£ 9$ per alnoum.

The cylinders are formed in one unit whth the top part of the cranlicase, the rear end being semi-circular in shape

A three-bearing crankshaft is employed and is carried in bearings of good groportions, which are located in webs furmed in the crankease. Side-by-side valves, inclined to the axes of the cylinder bore, are operated through adjustable tappets by a camshaft running alongside the base of the cylinders. The bead is detachable and is beld on tho cylinder block by well-spaced bolts. Thermo-siphonic cooling is employed.

An unusual form of construction is arranged for the camshaft, dynamo and magneto drives. The camshaft is driven by helical gears from the end of the crankshaft, and is fitted with a cover embracing the two gears. The dynamo and magneto are both bolted to flanges formed on the rear face of the timing gear casing (which also acts as a bearer arm) on the inside of the engine, their axes being parallel with the nxis of the crankshaft; a single roller chain embraces sprockets located on the end of the crankshaft, magneto and dynama, adjustment being provided by swinging the dynamo on its flange. The starter motor is housed on the crankease and is casily detached, a strap being provided for its location.

The carburetter is mounted on the off side of the cylinder block, through which a passage is cored to a $T$-shaped distributing passage, each end of which communicates with the inlet valves of two cylinders. To avoid any possibility of petrol being trapped in any excrescence or bollow in the system, all the passages are arranged to slope slightly upwards to the valves.

Driven by skew gears from the camshaft, $n$ submerged-type oil pump forces oil to all crankshaft, camshaft and bigend bearings, a tube being cast in tho cylinder block and forming. a gallery rumning fore and aft on the oft side of the engine. A large filter surrounds the suction pipe of the pump, while a drain


The carburetter side of the new Swift engine. Note the neat mounting of the positively driven dynamo and magneto, also the unusual arrangement of return water lead.
plug is screwed on to the side of the pump bousing.
The elutch is of the single-plate type in conjunction with a flywheel of ample diameter: it is lined with fabric and is loaded by springs placed round the clutch at the centre of the fabric ring. The external clutch plate works on three guide pins, a fork joint to the ball race housing on the withdrawal mechanism being used for withdrawal. Easy adjustmeut or replacement to the clutch is arranged, the elutch pit having an open top of rectangular shape.

The gearbox-which is of Swift manufacture is of the three-speed-andreverse type, and is integral with the clutch housing. An oil thrower is fitted to prevent leakage. $\Lambda$ fexible steel joint takes the drive from clutch to gearbox. This joint has a double-fork end to the elutch shaft, and another double-fork end is mounted so as to slide on the end of the splined gearbox shaft, a positive drive being provided on the near side of the box for the speedometer.

An open propeller shaft conveys the drive to a banjo-type rear arle and has a flexible joint fitted at front and rear. On the near side of the axle casing a torque member is formed which is located at the forward end by a springloaded swinging bolt. By withdrawing the axle shafts slightly the differential and crown-wheel assembly can be removed from the rear axle casing after detaching the cover. The pinion and crown wheelfare adjustable.

Brake drums of 10 ins. diameter are fitted to all four wheels, and the brakes are compensated front to rear. For adjustment of the brakes a turn-buckle on the main rod is fitted, which enables adjustment between either the handbrake lever or foot-brake lever and the compensating gear. A separate adjust-
ment is an additional fitting on each separate brake rod for individunl alterations. The brake shoes are of the internal-cxpanding type and operate on ail four wheels by a nedal coupled to a lever on a cross-shaft. Au interesting feature of the construction of the front brake is that it is positive in action during both application and release. Ample adjustment over a range of several inches is provided for both clutch and brake pedals. Steering is by bevel pinion and segment, and has been strengthened to withstand the extra work cousequent upon the adoption of balloon tyres.

Alterations and additions have been made in both the two and four-seater bodies, and include a two-piece sloping windsereen, with wiper, fastenings for affixing hood to screen, whilst stornge accommodation has been provided under the rear-seat cushion for side curtains, the batteries being remosed from the running board to a convenient position undernenth the front floorboards.

The bodies of both two and fourseaters are well streamlined, the fourseater model having a sliding front seat, giving ample leg-room, while the body is equipped with three doors.

The incorporation of a wide dickey seat has been made in the two-seater body, which closely follows the fourseater body in design. For the purposes of general touring the gear ratios havo been considerably modified and are suitable for all road conditions and hillclimbing, particularly where the continual use of second speed is needed. Dunlop cord reinforced tyres of the balloon type are fitted to the wheels, which are of the artillery steel type, the size of the tyres being 27 mm . by 4.4 mm . The mauufacturers are: Swift of Coventry, Ltd., Coventry.


## A Bad Guess.

LAST year I was bold enough to prophess just before the 200 -Mile Race that whaterer else happened it would certainly not be won at a speed higher than $100 \mathrm{~m} . \mathrm{p} \cdot \mathrm{h}$. and, in expressing that sentiment, I was merely echoing the views of regular Brooklands habitues who, like myself, had spent a considerable amount of time at the track during the practising. We were all wrong. however, in imagining that the wimning speed would be about 98 m.p.h. for the Darracas averaged more than 102 m.p.h.. whilst their drivers declared that they still had a little in hand.

This year, of course, there are no records to be broken, for the course is entirely new, and this, to my mind, is rather unfortunate, as in every pre vious 200 -Mile Race - unless my memory is at fault -long-distance records have fallen.

## No Winner in Sight.

AFTER last year's mistake I appronch the task of prophesying this year's winning speed with some trepidation, particularly in riew of the fact that up to the moment of going to press the race is just as open as it was a month ago.

There are those who say that it would be possible to win the race with a car incapable of more than S0 m.p.h. provided that its brakes were perfect and its acceleration beyond reproach. There are others who believe that the winner will be the man who can negotiate the home banking, the railway straight and the byfleet banking at an extremely high speed, and thus have a few seconds to spare orer the slower men which would allow him to go steadily round the bends, thus sparing his brakes-and most important of all-his tyres.

## Tyres will Limit Speed.

$I_{a}^{T}$T is certain that this year's race is going to prove a particularly severe test of tyres, the rough concrete surface of the finishing straight and the extremely fast approach to the first of the bends being factors which are likely to destroy tyres at an abnormally rapid pace.

Going as "blue" as possible, I fancy that the Alvises and the Darracgs would be able to lap at very nearly $00 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. . or possibly a shade more, but 1 feel confident that if they attempt it so many tyres would have to be changed during the race that their chances of winning would be serlously jeopardized. A likely winning sperl in my view will be about $72 \mathrm{~m} . \mathrm{p} . \mathrm{h} .$, and maintaining this average would almost certainly involve the need for making at least в28
one complete change of wheels. If the race is won at less than $70 \mathrm{~m} . \mathrm{p} . \mathrm{h} .$, I do not think anyoue who has taken an active interest in the practising would be surprised.

## Scapegoats on Wheels.

$I^{T}$T seems hopeless to expect logical reasoning from the lay Iress where motor accidents are concerned. Even the most sober newspapers have been panicking into scare lines scare lines, by the way, that never appear above reports of bathing fatalities, which have been appalling enough, in all conscience, this summer. Nor will such prominence be given to hunting accidents in the coming winter. Flying fatalities are reported in the ordinary way of news, such apparently being considered inevitable. Yet motor accidents are duly counted up and presented in a manner that positively frightens people off the roals. And on top of this come the most ridiculous suggestions for minimizing accidents.

## Driving Tests.

ONE prominent daily wared wroth recently with a motoring organization for opposing the adontion of driving tests. But every motorist of experience knows that tests would entirely fail to stop accidents. In the great majority of cases it is not the inexperienced driver, but the reckless driver who causes a smash.

The danger is that this daily chorus in the Press will lead to hasty legislation which will put an irksome burden on motorists without having any econpensating effect. It would be far more sensible on the part of newspapers if they called on the Ministry to use the motorists' millions in making the present road system safe instead of embarking on grandiose schemes which will ouly benefit posterity.

## An Argument for the Fan.

IHAVE met many owners of light cars who have been puzzled by the apparently erratic bellaviour of the cooling system of the engine as shown by a radiator thermometer. They state that, paradoxical as it may seem, the engine will often keep cooler when being driven hard than when gently running along at, say, $20 \mathrm{~m} . \mathrm{p} . \mathrm{h}$., but the conditions vary, for the thermometer will show a much higher reading on one day than on other days.

These good people seem entirely to overlook the effect of wind direction. It is obriousls better for
the cooling system if the car is being driven, even fairly hard, into the teeth of a gale than it is for i. © tick along at $20 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. with a following wind .of the same speed. In the first case a real hurricane blowing through the radiator more than compensates for the lard work which the engine is being called upon to perform, but in the latter case the engine is ruming practically in still air and very little draught is finding its way through the radiator. No wonder, then, that the temperature gnos ul, and if these occasions were not so rare the need for a fin undoubtedly would be more lieenly felt.

## When Roads are Up.

ASCPUNDING Haverstock Hill recently-despite A the warning of "road-up" given in this journal -one of my colteagues was turned off down a hy-road by a police-constable and promptly lost his way. Ife was making for the Ireath, but aventually came out at Swiss Cottage. He sugfrests that rery simple types of movable direction posts might he employed so as to guide road users hack to the highway from which they have been diverted, hy the shortest possible route.

I agrec. In some towns it is done already, the direction "posts" taking the form of bold red arrows printed on stout white paper, which are suluck high up on the corner buildings.

## Stereotypei Teas.

PDEirhates I may be dubbed effeminate, but I admit that $I$ am fond of a daintily served tea when I am touting or when I go for an afternoon's run. In nine cases out of ten I am clisappointed, because wassite tea shons of a really altractive type and where home-made cakes or scones may be had in hright and clean surroundings are few and far between.

The average hotel, althongh it may be on the " recommended " list, has, I submit, no idea of what constitutes a decent tea. One usually is shown into a dismal coffee or dining room and sered with a heartbreaking meal of damp bread and butter. watercress and a peculiar type of cake cut into slabs and made, evidently; on mass-nroduction lines.

Excebling that jam sometimes is substituted for watercress the menu is never altered, and on more than one occasion, even at quite pretentious hotels, my request for tonst has been refused on the grounds that the fire is out. Surely some more modern cooking apparatus might be used.

As a rule, the same hotels can sumply \& very fair lunch or dinner. Why then, do they failso miserably on teas?

## Light Car Proverbs

$\mathrm{M}^{\mathrm{y}}$Y recent naragraph concerning appropriate light car proverbs has prompted Mr. Gerald Pettengell, whose name I know as a frequent contributor to our correspondence columns, to send me the following:-

Spare the speed and spoil the trap.
A rolling tyre gathers no speed.
A parch in time saves nine.
Too many cuts spoil the tyre.
A rather tricky little footnote to his letter read: " To chase a red light's a night driver's delight." I am not sure whether it can be called a proverb, but it is certainly clever, and would make a splendid slogan for the organizers of the LondonIExeter.

## Insurance Difficulties.

'ITHE intricacies of insurance policies are often such that the average light car purchaser trusts to the word of the car agent that all is well; he signs the proposal form blindly and goes on his way rejoicing. Judging by the experience of some friends it is a dangerous and expensive habit.

The one who signs the various forms is responsible for the correctness of the details and for obtaining what he wants. It is no use complaining when it is found that the first $£ 5$ of a claim has to he borne in the event of a crash that the proposal was signed in ignorance of the fact, due to failure to read the particulars. If in doubt, and the agent is uncertain, get in touch with the company and be satisfied.

## Rather Different.

$\mathrm{O}^{2}$$N$ the subject of the owner bearing a proportion of each claim under a motor insurance policy, it should be pointed out that there is a great difference between a "claim " and an "accident." One accident may involve a very large number of claims, and if the policy holder has agreed to

(Above) The latest Lea-Francis fourseater. A number of improvements have been effected for 1926, including the adoption of f.w.h. (Left) One of the most attractive models in the Windsor range. With its very tall radiator the car has hody lines of unusual charm.

## RICH M/XTURE (contd.).

" bear the first fo $^{5}$ of each claim " he may find, after a crash, that he is liable to the extent of $£ 20$ or more.

Personally, I am not a believer in rebates-the feeling that one is insured fully against every imaginable contingency being much too satisfying to sacrilice for the sake of a few shillings a year.

## Safety Propaganda.

WITH the exception of the Nillinual Safety First Association, very few people seem to take any interest in the question of road manners for horse-drivers. The sins of motor drivers are the topic for every "ink-slinger" who is hatd up for subjects. but one or two horse-power vehicles escape. Probably the diminishing number of horses accounts for it, but the quality of driving displayed by no means warrants the remission of those who hold the reins from the list of people to be properly instructed. Please note, mronerly instructed, not made subjects for scare columns.

A few moments spent at a cross-roads in a busy district will provide instances of carelessness on the part of the " conductor of the horse," as some of our Continental cousins would style him, which would lead him to the local court if committed by a motor driver, even at the same speed.

## Those French Cyclecars.

IHAI) a letter recently from the Paris correspondent of The Light Car and C'yclecar in reply 1o one I wrote him asking if the rery cheap type of French cyclecar was really a success. He reulied as follows:-

> ". The proprictor of that contraption the - brought a machine to my honse recently and handed it over for a road trinl. I must say that I was honestly surprised at the mulling power of the absurd hittle encine, especially as it was pulling a four-whecled velicle with two up. The suspension, moreover, was really excellent, and eren over vile old pave the machiue was most comfortable.
"As I did not "trust such a machine for a run in the conntry on so short an aequaintance, I took it into the Wois de Bonlogne, which is just iseross the rond from where I tive. On the suont atwones of the Bois I maluaged to get 30 un.p.h. out of $i t$, which I consider very good indeed. linforthately, on emberging from the Bois 1 had to brake rather suddenly to asod destroying a tramear.

* The lever broke off short, and it was only by what the French papers would call a coup de volant magistral.' that 1 managed to save the lives of the tram passengers. In making the said sharp turn 1 pulled one front tyre of the rim and burst the tube. This ended the afternoon's entertainmont. As there were no spares I drove the beastly thing to the nearest garage and left it there to be called for

The maker today explains to me that the machine is only a roiture des esictis, and that such little things as brake connertions will he strondhened beiore it is served ont to the public. I hujen so !"

## Baffing.

'
IHE law compels one to carry a friving licence whenever one is at the wherel, allel it also compels one to renew the licence where at suatr. IRPnewal, in my case, has to be effected throush the locat allhority in the county town of the comaty in which I live, and 1 am told that I ratmont be issumd with a new dicence until I duly forwilrl my about-toexpire licence to the atuthorities in atoristion. What am I to do whilst it is in their kerning? If I do not use my car I shall be seriously inconvenienced, and if I do use it I shall be inviting at line.

On what allothority, I wonder., do they dectine to issute a new driving licence until the old one is Iosted to them:

## I Call on Mr. Soakes

ICALAND on our friend Mr. Somkes last week end, and was duly impressed with his palatial viller." After being regaled with toa and gossip be The Missus I was taken round the grounds, and thence we gravitated naturally to the garage.

The car looked very spick-and-span, but a short run sugbested it was time to decarbonize and change the oil in the sump. Mr. Soakes has decided to do the work himself rather than ent mast it 10 a " garridge." He has promised to let me know how the work is progressing, and is ennfident of his ability to do it poperly.

THE LATEST VULCAN TOURING CAR.
1926 practice is revealed in a number of features of the new $12 \mathrm{~b} . \mathrm{p}$. Vulcans. Note, for example, f.w.b., balloon tyres, slightly aloping windscreen, separate adjustable front seats, tall radiator, straight top body line, four doors,


Are Four Speeds Essential? THHEL is no gainsaying the fact that the weight of the average full fourseater touring light car is increasing out of all proportion to the extra power Which is being extracted from 1,500 c.e. engines. Two or three years ago a car of that type turned the scales :11 : hbollt 15 cwt. ; mowadays 18 cwt.-even a ton-is not considered too heavy. 'This is all the more surprising because modern scientilic construction is all in favour of lighter parts throughout, ahminium and aluminium alloys largely, being employed in place of heavier metals, to mention only one instance.

The explanation lies in the fact that the latest touring cars are far more gencrously proportioned and equipned. This does not necessarily give rise to any complaint, but manufacturers must realize that their productions may be cramped by a poor performance unless they take the common-sense step of fitting four-speed gearboxes. If experienced motorists argue that four-speeds give the ideal performance in a sports car, how much more forcibly the need must apply in the case of a car weighing lat more and with an admittedly less eflicient engine. The question of extra cost may be dismissed, £.2 or $£ 3$ covers the additional outlay necessary to install four-speeds instead of three, and this the knowledgeable purchaser would willingly pay. At present some manufacturers are wavering between the alternative of fitting a four-speed box or frontwheel brakes. It would be interesting to discover which the man in the street would choose, assuming that both models were marketed at the same price.

## Future of Three-wheelers.

AN annual revival in the possibilities of the three-wheeled cyclecar invariably takes place at this time of the year, perhaps because it is the most appropriate period during which to divert the attention of prospective purchasers of sidecar combinations to a proposition which has undeniable advantages. Thus new designs are introduced and old ones revived. The pity of it is that their sponsors so often lose interest and display neither the energy nor the enthusiasm necessary to lieep their cyclecars in the public eye. Were it not for the dogged and, justly, well-rewarded persistence of one manufacturer, it is doubtful whether the great mass of the motoring public would not regard
'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 CONSIST. ENTLY ENCOURAGED THE DEVELOPMENT OF THE ECONOMICAL MOTORING MOVEMENT FOR OVER tuvelve years.

NO CAR IVITH AN ENGINE CAPACITY EXCEEDING 1.500 C.C. (12 LITRES) COMES WITHIN THE SCOPE OF THIS JOURNAL, THAT CAPACITY BEING GENERALLY RECOGNIZED AND ACCEPTED AS THE limit for a light car engine.

## Topics of the Day


the three-whecler as a freak and nothing more.

We have always contended that the threewheeler has a big future. llacing it side by side with the average motorcycle and sidecar and comparing the two point for point, then taking a give-and-take run over average country and in average weather, could any critic fail to be impressed with the superiority of the cyclecar? Obviously the type needs every encouragement and, although we deplore the attitude of the Junior Car Club in barring: it from certain trials, we think we can say that the club objects to it only when it is entered for highspeed events. This attitude is peculiar, to say the least, for there have been singularly few accidents to three-wheelers in competitions of all kinds.

## The 200-Mile Race.

BY the inclusion of two very difficult bends in the 200-Mile Race this year the Junior Car Club has entirely altered the character of its event in that a premium is being put upon brakes, tyres and acceleration, whereas in the past nothing has counted save maximum speed in top gear. We think that the innoration is an advantage in every way, for the sole object of racing is-if we are to believe the doctrine of its principal exponents-to provide an intensive means for testing cars. At the present time there is plenty of room for still better brakes, improved stability and more reliable tyres. These three factors will play a leading part in winning this year's 200-Mile Race.

The only disadrantage of not running the race straight round the track as in previous years is that there will be no records to be beaten, which will detract in some measure from the interest of the race, whilst the big strides in the design of racing cars which have been revealed by "Tine 200 " in the past, on account of the much better times which have been put up from year to year, will not be so apparent.

If the course proves during the race to be as successful as the practising has suggested, there would seem to be an excellent case for introducing it as a permanent feature of the track, so that it may be used in the future for record-breaking attempts. This special course record would surely be much more coveted than straightforward records run around the outer rim of the track.

## DARRACQS CAN LAP AT OVER 80 M.P.H. WHEN THE TKACK IS WET:-ALVIS A FANCIED CAR IN 1,500 C.C. <br> RACE-SALASONS THE-

PRACTISING for the 200-Mile lace began at Brooklands on Thurstay, September 17th, when officials of the club visited the track to fix the exact positions in which the barriers weresto be erected.
It was decided then that the turn half-way down the finishing straight should be indicated by a hurdle nid a triangular sign, this being clearly shown in our front-cover picture. From this hurdle to the turn at the timing hox a row of flags has been arranged, whilst the second turn itself is maked by hurdles on which large placards have been placed, so that drivers coming from the Byflect banking cau clearly see the best course to steer.
On the Thursdas, when the course was being defined, C. M. Marsey had the f.r.d. Alris on the track, M. W. Cook his Aston-Martin, R. C. Morgan his Thomas Special and Gordon Fin:land his special Austin. Fingland. hon ever, was unable to try the circuir, as, when testing his brakes to ascertain the best speed at which to approach the first turn, one of the front-wheel brakes gripned too hard, tristing the front axle and cansing what might have been a nasty accident. The car left the track when travelling at a ennsiderable speed and was rery badly damaged

Fagland anticipates having it ready for the race, and has already put in some practice with the chassis whilst the new bode is being built

On Friday there were several cars at the track, but it was not until early this week that practising began in earnest. The weather, however. was nll against the drivers, both Monday and Tuesday being extremely wet.

On Monday erening two of the Darracgs were out, with Segrave at the whed of one and Count Conelli at the wheel of the other. Althongh the track was very wet Segrave did one lap at an average spoed of a trifle over
$S 0$ m.p.h., beating Harvey's previous best - 76 m.p.h. - which had been achieved the previous week.

Count Conelli has since equalled this specd, whilst Count Masetti, who did not arrive in England until later, will doubtless have performed equally well before these remarks appear in print.

A feature of the Darracgs is their tremendous acceleration and immense speed down the railway straight, Scgrave's best laps being achicved without unduly fast cornering. During the practising Harvey, who is considered to he the principal opponent of the Darracgs, has been cornering very fust and sparing his car on the fast section of the track.

To all intents and purposes the Darraces do not appear to have been altered in any way since last yenr, nlthough actually they have been modified in a number of respects. The added pressure now delivered by the supercharger is reflected in a rather higherpitched note, whilst it seems also to give a better "flat-out" speed.

The cars are using very large tyres indeed-no less than 29 ins. by 4.4 ins. They have longitudinal ribs nround the treads, which, being vers heavy, look as thongh they should stand up to the tremendous strains 10 which they will be subjected.

A prominent figure during the practising has been H. W. Cook, who has done a considerable number of lajs, but who, at the moment of going to press, has not pat up a better nveraze than T2 m.p.h. for a lap. C. WV. Johnstone (Frazer-Niash) has been another consistent performer, lapping at $70 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. or so nod apparently having a few m.p.h. to spare.

Mays's car whs not ready in time for the practising doring the early part of this week, whilst S. S. Marsholl's Pugatiowas another absentec. The A.M.IInlford was practising on 'Tuesday.

Nralcolm Campbell has not been down to the track, and it is anticinated that he will be a non-starter.

## THE PRACTISIN:

THE ENTRIES.


(Above) Segrave at the wheel of one of the $\mathrm{D}_{1}$ of the other Darracq drivers, is listening to a of the car on the course. In the ovals (laf) $\ddagger$ Aston-Martin and (right) Major Johnstom iq (Below, left) Harvey rounding the timing har same car talin.

# ${ }^{\text {THe }}$ Light (ăr no (jelecar 

## FOR "THE 200."

Cars are " Specials.")

| Driver. | C'ar. |  |  | Driver. <br> 3. Junife. |
| :---: | :---: | :---: | :---: | :---: |
| Count G. | Salni=utr ... |  |  |  |
| Masollí. | Amaliar | $\cdots$ | w | 12. 1'eltitt. |
| J. Radley. | Esinusoll | ... | -.. |  |
| R C. Murgan. | $\begin{aligned} & \text { Amulear } \\ & \text { Aualcar } \end{aligned}$ |  | - | V. Balls <br> J. G. Darry |
| G. E. T. Eyston. |  |  |  | Thomas. |
|  | Amilcar* |  | - | C. Libovitch. |
| E. A. U. Litl. | Amolear |  | - | A. I'embertun |
| ridzo. |  | 750 | c.c. | CLASS. |
|  | Austin | - | .. | A Uepper |
| A. Wate. | A Hstirs | ... | ... | E.and. Eng- |
| E. Nangwond. | Anstin |  |  | R. L. O [lal]. |
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| nier. | Austin | $\ldots$ | ... | L. Gres. |
| J. fioutle | Alastin |  |  | G. Ifends. |

Eyston in the practising has shown considerable skill on the corners, whilst R. C. Morgan's Thomas Special, although it bas suffered from various mechanical troubles, has appeared from its steady cornering and excellent speed on the track to bave a splendid chance of putting up a good performance on the day of the race. Up to the time of going to press the E.LI.P. Las not been seen on the track.

Several drivers of 1,500 c.c. cars, which naturally come off the Byflect banking into the fivishing straight at very bigh specds indeed-nearly 100 miles per hour, in fact-are complaining of the rough state of the track down the straight, where it is necessary, of course, to brake very hard indeed in readiuess for the first of the hair-pin bends.

The rough concrete in some cases causes violent juddering of the axles, II. IV. Cook's Aston-Martin having suffered severely in this respect during the first few days of the practising. his front wheels bouncing several inches off the track and giving the impression that the car must be very difficult to hold when the brakes are in action.

Among the 1,100 c.c. cars Ringwood has done several laps with the two-cylinder Frazer-Nash, and Waite bas been busy with his Austin. This car has splendid acceleration and excellent brakes, which should make it faster than the Frazer-Nash, which has rearwheel brakes only.

So far as the Amilcar team is concerned readers will be disappointed to learn that the three supercharged cars will not be over from France in time to rmul. This means that J. G. P. Thomas, G. Libovitch and Vernon IBnlls, who were to have driven these cars, will not take part in the race unless they ean find other mounts, which seems doubtful at such short notice. 'Ihe fortunes of the Amilears, therefore. will rest in the hands of $R$. Pettitt and A. Pemberton, who will be driving unsupercharged cars.

Both these drivers are, in fact, private enthusiasts,

## -FAVOURITES AMONG <br> THE 1,100 C.C. CARSGORDON ENGLAND'S ACCIDENT WILL NOT STOP HIM RUNNING.

and the feeling is that they will have considerable difficulty in beating the factory-tuned Salmsons. J. G. P. Thomas is suggested as being a possible driver of the E.E.P., in view of his Amilcar not being a participator.

Dunfee was the only Solmson exponent who was practising during the carly part of this week, and has succeeded in lapping at more than 60 m.p.h. The Salmsons which have been entered by M. Bovier still remain dark horses.

These ears arrived at the track for the first time last Wednesday morning. and we are now officially informed that the drivers will be J. de Marnier, George Newman and J. Goutte, A. de Victor being unable to drive and George Newman having taken over his car. Newman's car may. therefore, be a nonstarter, although there is a strong possihility that somebody will bave been found to drive it before the race is run to-morrow.

Among the Austins in the $7 \overline{0} 0$ c.c. class England was the first to be seen on the track. Lt. Grey and G. Hendy bave both been practising on several oceasions, Depper having also taken an early opportunity of familiarizing himself with the course.

Up to last Weduesday evening Segrave was still easily the favourite for the race. with Conelli second aud Masetti third. The experts believe that Harvey stands the next best chanec, whilst Marshall, Johnstone and Cook have many supporters. Big things are expected in some quarters of the Ellridge Snecial should it arrive in time for the race. The 1,100 c.c. class is popularly quoted as anybody's race. with the strong probability that a Salmson will be the wioner. Among the drivers of the cars in the 750 c.c. class Fingland remains the farourite, with Hall a close second.

G THE PRACTISING
raç racers; Count Conelli (in white overalls), one echanic's observations with regard to the behaviour W. Cook rounding the timing-box hair-pin in his proaching the same corner in the Frazer-Nash. aner in the front-wheel-drive Alvis, and (right) the nishing straight hair-pin.

I' 1 ' is certann that this year's 200 - Mile Hace is going to be very easy for the spectators to follow. In the first place the entries are fewer than they have been in the past, so that there will obviously be less confusion and, secondly, the introduction of the hair-pin bends will reduce the speed of the cars and thus give the lap scorers and the men in charge of the scoring boards plenty of time to indicate how many laps the various cars hare done.

The Junior Car Club are sparing no effurt to make sure that the race shall be as easy to follow as possible and, in addition to the big scoring bonrds, a number of smaller boards have been arranged which will give the leaders at five-lap intervals. This innoration doulthess will be rers much npprecinted.
It is difficult to advise intending spectators with regard to the best points of vantage from which 10 MINS SECS view the race, but

1. 55
many regular Brooklands habitues have already announced their intention of taking up positions on the Members' Hill armed with field glasses and thus commanding a view of practically the whole of the course.
It is probable that the grand-stand at the fork will be crowded, whilst the adjoining enclosure, which is just behind the pils, will also no doubt be ve!'y ponular. This year there is every likelihood of there being many exciting seenes at the pits.

The graph which is given at the foot of this page and which assumes the length of the course to be 3.1 milesactually a trifle short-will be ver's belpful indeed to spectators who have stopwatches with them, as it shows exactly what speed any lap time indicates. It should be borne in mind that the ordinary Brooklands speed table will be of no use nt this event as each lap is, of course, much longer than an ordinary lap around the outer circle of the track.

Spectators may be mystified by the use of certain fings with which officials on the track will be armed. 'Ihese

Giags are of four difierent culours, green, red, checkered and jellow. The green flag is shown to warn a competitor that he lias broketr a rule, the red dag to show him that he has been disqualified and the jellow thag to indicate that the race has been stopped. The checkered flaz will be used when the winning car in each class crosses the finssing line.

Uaving been flagred, the wiuniug car in each tass will complete auother lap and will then draw into its pit. The actual wimner of the race will be escorted to the grand stand, where the T. B. Andre Gold Challenge Cup and a laturel wreath will be presented to him int true Continental style. Other cars, as thes finish, will also complete an extra lap, and will draw into their pits.

Spectators should note that the actua start of the race will be signified by the firing of a maroon.

It is almost certain that rain will not be allowed to interfere with the holdin: of the eveut, and it would not appea: that any special danger would be involved, as Segrave Las done a lap at SO miles an hour during a heavy downpour.

2-5
$2 \cdot 10$
2. 25

2-35
2.45

2-55
3-5


HOW TO USE Waving timed a car for a complete lap, note the time taken in the left-hand margin, run THIS GRAPH.


EARLY in 1921 the idea of an International 200-Mile Race at 1 brooklands was mooted by the Tunior Car Cluh, but when the sug gestion was made there were critics who considered that such a race "as mot practicable and that it would he a dismal failure. They prophesicd, moreover, that even if it could be organized it would be at highly dangerous affair.
On October 22nd the pessimists were confounded, for the race was min ulf at Brooklands without a hitch and was voted a success which certainly should be repeated sear by yoar.
The egsential difference between the four races which have been run and the struggle which takes place Lo-morrow is that in previous years it has been an absolutely straightforward speed event. Accelerating away from the starting line, there was nothing to stop a driver keeping his foot hard down except the ordinary requircments of the track with regard to passing other cars-that is, of course, unless some mechanical failure developed, or the competitor was sufficiently uniortunate to be handicapped by tyre trouble.

In view of the hair-pins in tomorrow's race, it may be said with truth that the year 192.4 marked the and of the first series of 200 - Mile Races and that 1925 marks the be-

# THE HISTORY OF THE " 200." 

CLASSIC RACE FIRST RUN OFF IN 1921-THE OLD SERIES AND THE NEW-HOW PREVIOUS RACES have been run and won.
ginning of a new series. for on account of the totally different conditions which prevail this year, comparisons with previous races would be impossible.
One of the most conspicuous features of the 200-Mile Races has been the extraordinary reliability and consistency of the Talbots and Darracqs. In 1921 they finished first, second and third, being driven respectively by Segrave, Lce Guiness and Malcolm Campbell. In 1922 Lee Guiness proved to be tho rictor, Segrare obtaining third place, the third Talbot-Darracq, driven by Chassagne, shooting oft the track at speed. Second place was gained by G. C. Stead, whose non-stop run in the Aston-Martin will long be remembered.
In 192.t the Darracas repeated their team victory of 1921 , the order heing. K. Lee Guiness, George Duller and H. O. D. Segrave.
It was a thousand pities that the Talbot-Darracqs did not run in the race of 1923, for unquestionably it would have proved to be one of the most exciting of the four races.
Before the race started one of tho two Fiats was freely quoted as the victor, but to the amazernent of onlookers first one and then the other retired owing to engine trouble within the first dozen laps or so. In the meantime C. M. Harvey's Alvis was lapping consistently at over $90 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. It soon forged to the front, and captured first place, with Cushman (Bugatti) second and J. A. Joyce third. Joyce was handicapped by tyre trouble.

For the first threc races of tho series the classification was 1,500 c.c. and 1,100 c.c. only. In 1921 a terrific duel took place hetween A. G. Frazer-Nash (G.N.) and A. Lombard, who was playing a lone hand in a Salmson. By cool levelheaded driving, Nash won his class, and towards the end of the race he clearly showed that he could lap faster than the French car. W. Phillips, in a Deemster, captured the third place.
The following ycar, however, Lombard had his friendly revenge, bringing over a team of three Salmsons. One suffered from engine trouble and retired, but the remaining two gained first and second places. Third place was gained by H. R. Godfrey (G.N.).

In 1923 the Salmson team again appeared, but this time they had to reckon with Gordon England's Austin Seven. Bueno (Salmson), however, managed to win the class, with England second and Benoist third.
For the third year in succession the same Salmson took part in its 200-Mile Race, when in 1924 O . Wilson Jones won the 1,100 c.c. class. When he crossed the line there was only one other car actually running on the track in the 1,100 c.c. class, this heing Ringwood's Frazer-Nash, which thus obtained second place.

The 750 c.c. class produced eight starters, of which only Gordon England's car made a non-stop run (proving to he the victor), G. Hendy being second.

## A Word About the Drivers in To-morrow's Race.

Malcolm Camphell-One of the most experienced track and sand-racing drivers in the comntry; handles big cars as well as small. Drove one of the Tabbots in the 1921 race, but had tyro trouble. In 1923 he drowe one of the two super-charged Fiats, but mechamical trouble put both ears out of the running carls in the race.
C. M. Harvey-LIns had extensive expericnce in competition work, as well as in racins. Ins been assoriated with the Alvis Eugincering Co. for several vears. Won the 200 -Mile ruce in 1923 atears. nverase sueed of $93.29 \mathrm{~m} . \mathrm{p} . \mathrm{h}$.
The Earl of Cortenham-1s making his debut in a 200 -Mile race at the wheed
of the second Mlvis. Nthough ves to track work. he is an experienced motorist. nud can be relied upou to bandle his car with determination and skill. Ile is in his twenty-third year and is noe of the youngest drivers.
11. W. Cook-i private owner, who nchicyed distinction with his T.T. Vaushall "Rouge et Noir." IIas not previously taken part in a 200 -Mile race. but bas been at well-known figure at practically every sports mecting for a number of years.

Raymond Mays-Will go down iu history as one of the men who managed to extract more power from a 1.000 c.e. Bugatti than sumgae clec. Tle other
man was Amberst Villiers. Mays is an absolutely fearless driver, and bis experiences in hill-climbs and so on should serve him in good stend during the $200-$ Mile race.
C. W. Johnstone-In euthusiastio amateur, who has only just come beforo the motoring public. The 1,496 c.c. Frazer-Nash which has been built especially for him is one of the fastest cars of this make that has been manufactured.
B. S. Marshall-IIas during the past two or three sears finued bis faith to the 1 -litre Bugatti, but previons to that he was secn at Brouklands with success at the whels of other cars, including the Hampton. He is an old hand in 200

Mile races, and the car which he will run this year has competed in the last three Doulogne (irand Prix races, \&aluing first place both this year and last.
F. B. LIalford-A private owner who has had considerable experience with Aston-Martin cars. Fine some time he wins the pilot of the famous ". Jiazor-blade," which has mow passed into the hands of J. C. I)ouglns.
11. S. Laton- Aunther private owner and Aston-Martin enthusiast. Last year he drove a standard A.-II, with a threeseater body in the " 200 " nuld finished the race with honours. Has been seen at many sporting events and sometimes drives a racing "Gwymne," which is jather a dark horse.
II. O. D. Segrave-Needs no introduction to readers of the Light Car "nd Cyclecar, and space does not permit of even the briefest reference to all his successful explnits on both track and road. Has taken fart in every $200-$ Nille race excent in 1923 . Wor the Andre Cup in 1921, ran second in 1922 and third in 1924.

Count C. Conelli-Is making his first aprearance in this country. but has handled Darraca racing cars abroad. IIe is n daring driser and is to be congratulated on escaping miraculously wih his life at Montlhery in the French I.ight Car Grand Prix (May 17th). when he crashed on the finishing line.

Count G. Mascti-Also a newcomer to English motoring sport. IIo will drive the third barracg entered by Mr. Huntley W゙alker.
J. Radley-A new-comer to Brool:lands. who will probably drive the only E.E.I. entered in the race.
R. C. Morgan-Is n skilled and determined driver. His faith has been pinned to Aston-Martins; in fact, the Thomas-Special which he will drive in the race is an Aston-Martin chassis with an engine specially designed by J. G. P. Thomas.
G. E. T. Lyston- $\boldsymbol{\Lambda}$ private owner nud Aston-Martin enthusiast. Uns driven previousiy in 200 -Mile races and always displays skill and determination at the wheel. It was rumoured that be intended to gire up racing, but Brooklands habitues will be glad to see his Hame down as a driser in this year's " $2(0)$."

İ. 1. D. Eldridge - A guiet, undemonstrative man, with whom it secms dificult to associate the giant 300 h.p. Fint which he drove with such extraordinary verve. His Eldridge-Special is one of the dark horses in the forthcomin: stru;ithe, for nlready Eldridge has managed to attnin a speed of nearly 114 miles an hour in it.
A. Waite-Intimately associated with the Austin Motor Co. Waite has dove a great deal to further the cause of the $750)$ c.c. machine, and his green supercharged Anstin has become a wellknown ear at all sporting mectings in 1925.
E. Ringwood-A firm believer in the two-cylinder air-cooled racing ear. Once asain be will bandle the veteran VrazerNosh entered by F. N. Pickett. Mas had previous experience of a 200 -Mile race, running second in the 1.100 c.c. class last year.
J. De Marnier. A. He Virtor, J. Goutte-Tbree new French drivers who will handle Salmsons. De Victor is likely to be a non-starter.

13 36
J. Dunfec-A private owner who has achieved considerable success this yen with his Salmsou. Eis experience of the track will hels him considerably during the 200 -Mile race.
G. Newnan--Will drive the fourlh Salnoson entered hy Mr. A. Bovier. Ile has been associated in the past with Wolseleys.

Vernon 1balls-A man who believes that there is no finer light car in the world than the Amilcar. Ilis cornering work in the 100 -Mile High-speed Irial delighted spectators. It is probable that the threc Amilears he lias entered will not be ready in time for the race.
J. G. P. Thomas-Rightly deseribed as the Ace of Speednaen in this coumtry. Has his own Norkshops nt the track and lives in a bungalow adjacent to them.
G. Libovitef.-Due to make his bow to $\Omega$ Brooklands public in one of the Amilears entered by Vernon Talls.
A. Pemberton-A wother Amilcar expoucnt, who put up a realls meritorious performance in the $100-\mathrm{Mile}$. Mitb-speed Reliability Trial, and has been seen all over the country in ratious sporting events.
A. Depper-Will handle the second Austin Seven entered by Capt. Winite. lias been brought up in the Austin school and understands his car inside out.
E. C. (iorton Vingland-Manages to get phenomenal speeds out of 750 c.c. cugines and has been successful in previous 200 - Mile races with 人ustin cars. is permanently cripplerl as the result of of crash in the first eliding twials oryanized in this comntry. but is, nevortheless. ת capable and fearless drwer. Crasbed last week when practisine, hut escaped injurs.
R. L. (1 Hall-Will ifive Gordon Ergland's ond entry-all... on Austin Scven. Ie has had extensive experience and piloted one of Gordon England's entries in 10:-s.

Sieut. (irey- $A$ private nwher who makes his debut at laromlands in the 200 -Mile race at the wheel of an Austin Seveli.
(i. Hendy-One of the mast determined drivers of Austin Suvens who have been seen on the track. Has taken part in previous 200 - Mile races and has also been seen in sporting cwents all over the country.


Sidelight on to-morrow's race at Broollands as seen by an artigt

## The strength of the B <br>  K AXLE

The A-C back axle is unique amongst light car designs inasmuch as it consists of onc aluminium alloy casting from hub to hub. The secrets of its unrivalied efficiency for light weight with great strength. lie in the alloy used and the design of the main beam.

The axle is of the semi-floating type-that is to say, the weight is carried on the axle case by means of a large ball bearing, thus relieving the shaft of all strains except the transmission of the torque.

Axles of this design have been used on A-C cars for many years and come through extremely severe tests, such as climbing the raulway track up Snowdon and up Clovelly High Street steps, Devonshire, both of these under official observation of the Royal Automobile Club.

Finally, on May rith, 1925, an A-C Car with this same back axle broke the 24 -hours record for cars of any size.

Please try other cars on these tests and tell me the result.
$12 \mathrm{~h} \mathrm{p}. \mathrm{4-cyl}$.4 -seaters from $\mathbf{£} 295$ ( 6 months guarantecd) or $\mathcal{£ 3 3 5}$ (3 years guaranteed).

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PAYMENT OVER 3 IIEARS IF DESIRED.

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All types of bodies. We are now prepared to supply a second door on open 2 -seater bodies at an extra charge of $£ 5$.

THAMES DITTON, SURREY, ENGLAND
Full range of A-C Cars at 55/56, PAL.L MAlLL. S.W.i., where old cars arce changed for new ones.

Amazing Value: The price of the 12 b.p. 4 cyl. Royal 2 -scater $\mathbf{2} 3 \boldsymbol{3}$ ${ }_{i s}^{2-s c a t e w ~ L o w J ~}$

We can supply reliable second-hand A-C Caps.

Luck plays its part in motoring just as in everything else. You might have driven a car ever since the pioneer days of motoring without experiencing any undue quota of mishaps, etc. Upon the other hand, your motoring right from the onset might just as easily have been beset with every known bugbear of the road. But is fickle fortune behind every incident connected with your motoring - detrimental or otherwise?
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Luck plays no part in the fact that the A.A. is over 250,000 strong. It is the direct outcome of service rendered, and incidentally practical proof of the wide appeal of the member's many benefits. In addition to A.A. Road Service and Free Legal Defence and Advice, members enjoy the free use of roadside telephone boxes, whilst officially appointed hotels and repairers will be found throughout Great Britain. Ahead," which gives comprehensive information regarding A.A. activities and the manner in which A.A. membership would benefit you. Send a postcard to-day to the Secretary, The Automobile Association, 29, Fanum House, New Coventry Street, Londons W. 1

MOTOR SHOW, STAND No. 73.

TWO-PIPCE WINDSCREENS AND


T
IVlIL 2 wo accompanying photographs depict the latest. Jowett two-scater nand light four-seater. It will be moticed that the lines of the two-senter have been culanesed by the seuttle and bonnet now iorming a straight line from radiator to windsereen, whilst a twopand windscreell replaces the singlepanel screen which has been fitted bitherto. Jhhis two-pancl windsereen is higher than the old lape, and thus nllows more headroom inside the car when the hood is raised.

The hood itself has been improved in detail nnd now lnoks very meat when erected, as all the sticks are concealed. It makes a weatherproof joint with the
top of the windscreen, and, with the side curtains in place, the car is particularly weatherproof and comfortable.
The lines of the light four-scater have been modified, and, whilst the leg-room in both front and rear seats remains as before-very generous for this type of car-the general appearance has been considerably enhanced. As with the two-senter, this model has a two-panel windscreen and mas be entirely closed in wet weather by means of the side curtains provided.

The price of the two-senter is $£ 150$ and the light four-senter $£ 160$, the manufacturers being Jowett Cars. Ltd., Bradford Rond. Idle, Bradford. Yorks.

## SIX-CYLINDER MATHIS MODELS.

## WEYMANN SALOON AND TOURING CARS.

TUEF light cars of the famous Mathis marques to be shown at Olympia will be of the six-eylinder type. The now W'eymann chummy saloon body is the chicf departure of interest for 1926 ; at $£^{2} 95$ complete this represents unusual value for a car of this type.

With the excention that IIartford shock absorbers are now fitted there is little alteration in the chassis details. The engine is a six-cylinder monobloc with side-by-side. valves, one large cap coveriug each pair of valses. The cylinders are 55 mm . bore by SO mm . stroke, giving a cubic capacity of 1,140 c.c. Thermo-siphon circulation is employed, the pointed radiator adding materially to the appearance. A Marelli magneto, Soles carburetter, three-benring crankshaft, and fixed head are features of the power unit.

The transmission system comprises a multiple dise elutch, four-speed gearbox with central control, an open propeller shaft and spiral-bevel final drise. Dise wheels are fitted with 7.30 mm . by $1: 3$ mm . Michelin low-pressure tyres. Scmi-
elliptic springs fore and aft in conjunetion with Iartford shock nbsorbers attend to the suspension.

The pedal applies the brakes on an four wheels, and the hand brake operates separate shoes in the rear-wheel drums. The wheelbase, of the "P.S.E." type, carrying the touring body, is 9 ft . 5 ins., and that of the "P.S." fitted with the Weymanu saloon is 9 ft .
Turning to the Weymann saloon, this is of the two-door type, entry to the rear seats being by lifting the near side front seat forwards; the squab angle of the seat mentioned is adjustable by means of straps. Upholstery is in fawn cloth, and the head is lined with white cloth divided into squares by moulding strips.
Wells are provided in the rear compartment for the passengers' feet. Twopiece sliding windows are fitted in the doors, but the quarter windows are fixed, as is the large rear light. The upper panel of the windscreen is movable, but not the lower one.

The body is covered with elephant-

The bonnet and scuttie lines ara straight and the hood sticks concealed on the lat st Jowett light
cars. Starters are standard equipment.
grey leather cloth, and the wings and roof are black. A polished moulding runs round the car just below the window level. The polished wood faciaboard is outlined Dy a narrow white line and it is fully equipped.
Mathis cars with touriug bodies bave rigid side curtains and rear screens as standard equipment for 1926, the price being 6295 complete. The concessionnaires are the Atom Motor Co., Ltd., Mill Lane, West Hampstead, London, N.W.6.

## G.W.K.s FOR 1926.

## New Chummy Model for $£ 159$.

TOR 1926, G.W.K., Ltd., Cordwalles Works, Maidenhead, will market four types, three of which are alreadr fanmiliar, these being all on type-iI chassis in the form of a two-seater. four-seater and coupé, the prices of which are respectively $£ 225$, £ $^{5} 55$ and £250. They are de luxe models and, in addition to full equipment, such as clock, speedometer, windscreen wiper. mirror and so on, will have front-wheel brakes. There is a considerable demanil for the hand-controlled G.W.K. with IItype chassis, and this will continue to form part of the programme of G.W.K., Itd., the price being $£ 225$.

The new $10 \mathrm{~h} . \mathrm{p}$. model, which will be known as trpe HK, bas a similar specification to type $H$, in that the fourcylinder $1,36 S$ c.c. engine, driving by open promeller shaft to the G.W.K. patent dise system of transmission. thence by short trausverse prop shafts to reduction zear in the rear wheels, bas been adnpterl. but a narrow radiator is fitted, this giving the enr more pleasing lines. The body, which is of the chummy type, may be had in polished aluminium. Access is gained to the rear seat by tipping forward the squab of the front seat, whilst at the back of the rear scut a commodius locker is formed in the semi-bulbous tail. With all-weather equipment, speedometer. starter. C.A.V. threelamp set and DunIon low-pressure tyres, this model will sell for $£ 159$ net.

## Our THREE SPECIAL SHOW NUMBERS.

(Oct. 2nd, 9th and 16th). ORDER YOUR COPIES NOW.


We welcome at all times letters sent us by readers for publication in these columns, and while taking no
 responsibility for the opinions expressed therin, giveprefe but the writer mayuse a nom de plume if desired. To interest. No anonymous communications will be accepted bul the writer may use anom morning. We reserve the right to make any alterations or deletions which we deem necessary

## ELIMINATE UNNECESSARY WEIGHT.

## J.C.C. Yorkshire Centre on the 1,500 c.c. Limit.

## An Anomaly in Competition Rules

Can suybody tell me the precise reason for the minimumweight regulations often iound in competitions? It would seem from sny point of view that the imposition of the minimum-weight clause is a retrograde
The Minimum movement in the framing of any conWeight Clause. petition rules and regulations. I suggest that this will hardly be disputed and that the elimination of unnecessary weight camot but he beneficial to automobile progress in general, and therefore, this particular regulation, which seems to me so absurd, appears to require removing once and for all from competition rules.

As a case in point, I ran a standard Austin Seven chassis fitted with a genuine two-senter touring body, both in the Judge-Whitworth 24-hour race at Le Mans aud in the Georges Boillot Cup race at Boulogne.

The regulations for both these competitions were practically jdentical excent that in the case of the Boulogne race the minimum-weight regulation was enforced. In the preamble to the regulations it stated that the object and spirit intended by these resulations was the creation of a definite touring-car race, and to climinate all cars which would not gennincly be regarded as touring vehicles.

Beariug this in mind I produced a thoroughly comfortable two-seater body which definitely met the regulations in the spirit as well as in the letter, and it is common knowledge that other competing cars, particularly of French manufacture, in both these events, could not by the greatest stretch of imagination be regarded as reasonable touring vehicles.
The winning ear in both cases was an absolutely freali design, the engine was special from end to end, and the body and chassis were nlso constructed with one object in ricw, and that was to defeat the spint of the regulations.

In the case of the Boulogne race the winner's car was adjudged as being entirely within the regulations, but my ear, although a perfectly genuine touring car amd, in fact, exactly as I sell them to the public. in addition to one or two other absurdities enforced by the regulations, had or to take on ballast, in addition to myself and passenger, to the amount of 135 ll . And this, simply because I had sueceeded. in conjunction with the remarkably light chassis which is standard on the Austin Seven, in producing a very light body.

в40

The result was that, with the sma!lest engine in the race, I was, in fact, carrying more useful load than any other car, and in spite of this tremendous handicap, which amounted to carrying one additional passenger, the small car mauaged to average $46 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. over a very diflicult coursc for six hours.
The point is that this additional weight with the smallest engine was obviously a very heavy handicap, particularly on the hills and when accelerating from the corners, and, consequently, greatly reduced the mean performance of the car. I thinls this indicates better than amything the folly of such a regulation as that of minimum weight.
J. C. Gordon England.

## The JC.C. anai the Limit

With reference to the remarks in your issue of September 18th, res:urding the action of this centre of the J.C.C. in rmning a special class for cars having a capacity exceeding 1,500 c.c., may $I$ be allowed to

## Catering for <br> Large Cars.

 put before you the reasons for this? $\Lambda$ s you arc well aware, the J.C.C. admits any car-owner to membership irrespective of size of engine, but puts a limit on the size of engine which can be entered in any closed event.Tha result of this is rather diffieult to deal with, as in this enntre we have cuite a fair number of members whose cars ave oversize and who, as aresult, are debarred from competing in some of our erents. Also, a trial of the type which we ran on September 39 th ealls for a fair amount of time aud offort to organize, and is usually guite an interesting event.
Consequently, it was decided at the last meeting of the elul nommitten to allow any car to be entered, only those under Greenwe. eapacity to be cligible for the award of the A. I. Greenwood Cup.
This, as you will see, is no more than the "thin end of the wedue" hy nllowing the same cars to compete at gymblatuas or join in social runs and pienics.
hicifard J. Smitit
Hon. See., Yorkshire Centre.

[^0]

The reasons why will be found at the Motor Show, Olympia, Oct. 9-17, on

## STAND No. 107

(In the Main Hall, rear junction with New Hall).
Below is a brief description of the models, and the points to examine when you visit the Show.

## 9/20 h.p. <br> "Its tax is 9— its power is 20."

Much improved coachwork. Four-door body and adjustable driving seat on all 4 -seaters; 2 door body and roomy dickey on 2 -seaters. Wide bodies - compare with cars of much greater running cost. New "Super" model with longer chassis and 4 -wheel brakes. Excellence of finish and distinction of appearance stamp all $9 / 20$ h.p. Rover models as cars of superior quality. Petrol and oil cost barely $\frac{1}{2} \mathrm{~d}$. a mile; very few cars can overtake the $9 / 20$ h.p. Rover on the road.

## MODELS:




THE ROVER COMPANY, LIMITED, 61, New Bond Street, W.I; and COVENTRY.



READERS, NOTE.-It ussists the small cat movement and the advertiser, and ensures you prompl

## OUK REAADERS' OL'INIONS (contd.).

## Front-wheel Brakes on A.C.s.

Is it a fact that $A .(\%$. cars are not fitted with front-wheel brakes? Surely such a speedy and expensive car ought to bave this necossary fitment? In view of the fact that Mr.

A Mistaken
Impression.
. Coge is actively engaged in its
escaped lis severely critical ere. Perhaps it is whe to the fact that quarter-ellintic suspension dees not readily lent itself to their successful application.
Courbevoic, Scime, France. Wilmam Cochrane.

* A.C. cars have been available with f.w.b. for sume considerable tame.-以D.


## An A.C. Shortcoming

It is clear from Mir. Ldene's recent letter commenting on "Where Improvement is Niecded" that he has put himself to areat pains to make the A.C. as perfect a car from the

Why Only Three Speeds? 11 my opinion, in the most important been owner-driver's point of view as a fourtla gear ratio, The of aller to the absence of siast's car-luzinners and blase motorists will not nay himh arices for whinements which they cannot appreciate-and there is not a sinsle real enthusiast whon I know who would think of owning a three-speed car. The only pleasure to be had firnm driving a responsive car lies in the ability to make the best use of the gearbox, and what can one do with only three ratios? A sereaminat 30 m.p.h. in second and a bare $20 \mathrm{~m} . \mathrm{p} . \mathrm{ll}$. in bottom. Forty in Thind.

## The Need for Improvement.

Last week you mblished a letter from Mr. S. F. Edga which tealt with some of the points raised in my recent open letter entated, "Where Improvement is Needed," find

## What Is

Required addressed to manufacturers of light cars. The activities of Mr. S. F. Edge in connection with the improvement of cars are well known, and I have on varions oceasions lind the pleasure of hearing him express eminently practical opinions at technical meetings. I now venture to sughest that he should deal with some of the points mentioned in the artiele, which are not referred to in his letter.

When wriling in the first instance $I$ was thinking frimarily of light cars sold at what may be called popular prices, that is, substantinlly lower than those of A.C. cars. The more one pays the more one expects, naturally; therefore, it is appropriate that Mr. Edge should claim to have incorpornted $a$ number of good features in his cars.

The Jowett, Calthorpe and one or two other cars have aluminiun borly panels; therefore, the A.C. is not exclusive in this connection. I am rather nt a loss to understand the statement that there ure only three greasers and two oiling points on the A.C. The list, according to a recent issue of The Light C'ar and C'yclecar, comprises two swivel pin areasers, clutch spigot areaser, two lubricators on the track rod, rear axle and gearbox unit, stecring box, forward universal joint and four hubs.

There are many points Mr. Edge does not deal with which I mentioned, possibly because they are not yet A.C. practice. Detachalble rear-sent upholstery, completely removable floorboards, quiclily detachable wings, adjustable steering rake and controls, better tyre pumps and change-speed systems ate nmong the items in question. All motorists would welcome the direction of Mr . Edge's characteristic energy to these moblems, and nobody would thank him more heartily than

Tife Wiriter of the Lettif.

## The Modern Light Car.

Having recently returned from abroad and wishing to do a $1 .($ O(W)-mile photographic tour of the beauty spots of North Wales, I took over a perfectly standard model of a well-known four-eylinder $11.0 \mathrm{~h} . \mathrm{p}$. car:

## Where Britain Leads.

 which had already nearly $\quad 3,000$ miles running to its credit. I took this car over all the recognized passes and mauy cross-monds and by-ways of the Welsh hills with absolutely no ather attention than butting petrol in the tank nud water in the radiator, arriving back in Eondon with the crankease oil level $\$$ in. belor the starting point, and the tyres untouched.As an illustration of the ease with which it is possible to take a fortnight's tour on a high-grade modern light car. it forms a striking comparison with some of my earlier experiences of motoring and compares with many tiresome incidents on some post-war light cars iu running 200 miles or so in a day.

That a modern car can be so reliable and take so long a journes with so little trouble on the part of the driver is a wonderful testimony to its design and manufacture. Driving such a car is a sheer delight for its case of steering, riding comfort and fexibilits, and it would appear that the English manufacturers of such light cars have nothing to learn from their forcign rivals and need fear no competition, except on a price basis.

As a sidelight on this tour, in view of the clamour in the "stunt Press" regarding motoring dangers, I may say 1 met with only two cases of anything approaching dangerous driving in the whole run, awny from the London areawhich is a very necessary qualification.
A. Livingstone Oee.

## The Australian Market

We are always pleased to receive The Light Car and C'yclecar and find much of interest iu its pares. From time to time there are items referred to in your reading and advertisement columns that should suit

## Accessories <br> and Cars.

 the Austialian market and we are תnxious to get in touch with manufacturers nid exporters of nccessorics and equipment. We shall be pleased, therefore, if you will give this letter publicity.There is also a big field here for a proved cheapl Leritish light enr that will stand a certain amount of rough wor!.: nid we shall be pleased to bear from the manufacturers of such a car.
H. Fitzgerald.

General Auctioneers and Valuators.
Head Office:-Sydney Stock Exchange,
113, Pitt Street, Sydney.

*     * Letters of this kind from overseas readers are always * welcomed.-Ed.

The Differential Problem.
Secing that my recent letter has, apparently, been of some interest to your readers and to Mr. Stott in particular, who has taken all criticism in the spirit in which it was offered, lerhaps you will allow me space for a

## Preventing <br> Wheelspin.

My emphasis of the fact that my own car was specifically designed by me so as to permit a solid axle to function satisfactorily and was "at merely a standard car with the differential omitted," was to protect me against the accusation of being either "pro" or "ants" differential in $m g$ views, and to make the point that an arrangement that is effective on one car mas be quite the reverse on another.

Many years of professionsl experience has led me to the conclusion that, provided certain conditions are observed in the design of a car, a solid ade may advantageously be employed. If, howerer, the type of car desired makes it undesirable or impossible to conform to these conditions, then some sort of differential gear should be fitted.

A friend of mine recently asked me with some annoyance why a certain visitor's sinall car always "scraped such infernal ruts" in his curved gravel drive when quite large cars lite no marb. I found that the car in question, the product of a very famous firm, bad a sulid asle, but other wise it was an ordinary standard type of car. The scraping of ruts has to be paid for in some way, of course.

The reply to the final query in my last letter, viz. " What. then, precisely, has occurred?" is as follows:-The tyre impressious, although firm, quite clear and distiuct, are curiously distorted. In the case of the outer wheel mark the "piteh" of the tread design is appreciably increased or clongated beyond that of the tyre itself. In the case of the inner wheel the "piteh" is correspondingly decreased or compressed. Perfect impressions are not, of course, invariably obtained. When they are, however, their neatness, regularity and semmetry are remarkable.

Wheel slip, spin and differential action depend to a certain extent on other factors than axle design and an experience many years ago in India may give food for thought. I was on $n$ tour of inspection. rather off the beatell track, in n fairly powerful American car. I wns alone in the back with kit, n native driver was at the wheel. Our way led across a sandy and partially dried river bed some threequartiry

OUR READERS' OPINTONS (contd.).
of a mile in width. The sand was dry and soft for a guarter of a mile or so on each side of the river itself.

Before embarking on the passage my driver stopucd, extracted two shaped woolen blocks, with straps and staples aftixed, from his tool kit. These blocks he poceeded in drive in with a mallet between the back axle and the frame of the enr and secure in position with the straps. Thus in aftect eliminating the back surings of the enr. Wre then drove on through the soft sand. the river itself, sud elimbed the opposing sand slope until we regained firm grouncl, when tho Hoeks were removed and replaced in the tonl kit.

Now, the car during its passage was tilled all ways, one wheel in soft sand and the other on a patch of rock or serub, and so on, yet I wever observed any material wheelspin and no difliculty was experieuced in winning through.

The driver told me that he made the blocks himself and used them whenever tackling sand or soft jungle tracks, and had never been stranded. It is always injudicious to argue from the particular to the general, but $I$ have often wondered whelher the ordinary diferential gear is not sometimes wrongly held responsible when wheelspin occurs and a car digs itself into a bad patch.

I have frequently wateled back axles jumping violently up and down in competitions over freak hills, prior to the (ar failing to climb. When drivers and designers discuss julder, athesion aud so on, my mind goes back to my old native driver of a dozen jears ago, who apparently knew something not even yet fully appreciated by morlern science.

Engineer.

## The British Miotor Trade

It surely is satisfactory to note that the strenuous upposition recently raised anainst the contemplated purchase, by Smerican interests, of the Austin Motor Co., Letd.

## America

 descrves. Whilst the majority of Britishers have the most friendly feeling towards our cousins neross tho water, it is indecd good to note that there are still some who hold the riew that Great Britain is the proper place for 13 ritish manufacturers and British workpeople, and that we have all the brains and capital necessary to retain our position as "The Workshon of the World."Surely the directors of the Austin Motor Co. Who associated thenselves with the strong movement to retnin this concern in the hands of British sbareholders, and under a British directorate, are to be congratulated on the pritt they played.

Jame: Allen.

## The Price of Oil.

Will you kindly allow me to reply to Mr. Kenyon Secretan's criticism of my remarks in reference to being charged 1s. per pint for Castrol C: I do not wish to obtain odd pints or quarts of oil at bulk prices,

## Loose or in Bulk

 nor have l ever succeeded in doing so. If Mr. Scerctan considers five pallons bulk, then the price is Dil. per pint or Gs. per gallon. The price of Castrol C is not 2s. 5d. per quart loose-that is the price for sealed cans contaning that quantity.The Vacuum Oil Co., Lid., state in an advertisement that they consider 1s. 9d. per quart a fair price. This applies to their BB quality, which is the equivalent of Castrol C , nud is sold all over the country at the same price, just as Pratts, Shell and 13.P. are all sold at 1 s . $7 \frac{1}{2} \mathrm{~d}$.

Mr. Secretan is taking a liberty in calling garage proprietors fouls because they sell Castrol $C$ at 10 d . per pint. Whilst I an opposed to excessive price-cutting I am bound to say that this is often the only way in which prices ean be brought down on articles that are absulute necessities and which the public must have irrespective of price.

I say quite frankly that any man who sells Casirol C at 1 s . per pint is the very worst kind of profitecr and should be boycotted. How any man can take $33 \frac{1}{3}$ per cent, profit on a sure selling commodity pusses my comprehension.

In renly to your footnote I would point out that a shopkeeper has frequently to spend far longer time on enstomers spending (id. or 1s. than the garage man has to in selling a bint of oil. As to your statement regarding luss of oil in serving I will any time get 39 pints out of a five-gallon drum, measuring it in separate pints.

14t

Trials for Women Drivers.
With referchec to the news papagraph in sour issute of September 1Sth, I fully endorse your comments with reference to trials for women idrisers. 'lliere mast be now some thousauls of slillerl women owneredrivers

## A Cluh <br> Wanted.

 they will be able to compere in at trial from which men drivers will be barred, and it is s wonder that before this a elublys not ben formed successlully. exclusively for women owners, of some enterprise has not orgnnized a trial for them.I: Ci J.искson.

## Votoring Headgear.

Relative to the controversy regarding heategenr, I wonld suggest that the tyle wom by Norwemian molorists is the most practical of all. Members of the Lioval Norwegian

Emulating the cycle club, all wear a yaclating eap with Yachtsman. the clibis imitials. The peak liceps the sum out of one's eyes aud the can will not how of casily. Tho see the members of the elntis in guestion in toublebreasted blue suits with these eans is a sight for those who can appreciate the smartness of attire. ITcre in Fumland we refard this costume as suitnble for pait seriomts only, but why?
——o-n-

## INFORMATION WANTED.

Cofentry-Premer.-Ticaders' experiences with the Sh.p. Coventry-Premier four-wheler will be welcome.-- $\Gamma$. Bethell, Whiteways, Wray Parls Rond, Reigatc.

Bugatit.-An instructiom book or other literature dealing with the 16 -valve Bugatii will be very acceptoble to me.H. C. Ashbs, 10 , Clifton lioad, Luton, Beds.

Coventry-Premter.-I am anxious to obtain a 1921 Coventry-Premier three-whecler instruction book. Cian nny deader oblige we?- 12. Taylor, 101, Ormeau Road. Delfast.

Standard.-I shall much appreciate the advice of any owner of an $11.4 \mathrm{~h} . \mathrm{p} .19 \cong 4$ Standard who has experienced and cared plug-oiling trouble.-James Anderson, \&, Mntthew Strect, Kirkcaldy, Scotlaud.

Peugeot.-Any information regarding the rumning and reliability of the $1925 \quad 7 \mathrm{h.p}$. Peugeot will be very wilemme to me.-G. L. Bailey, 12, Clevedon Mansions, Iissemden Gardens, Eighgate Joad, N.W.5.

Coventry-Stmplex--If any reader has fitted Specialloid or other alloy pistons to a 1.406 e.c. $10 \geq 4$ Corentry-Simplex engine $I$ shall be glad to honr what results wore obtaned.J. A. Dove, 24, J'erme l'ark Mansions, Crouch I'men, Ni.S.

Bflasize-Dradsifaw.-I shanl be obliged to any reater who will lend or sell me a 1022 ! 3 h.n. Lelsi\%e-Dradshaw instruction book. Gencral informatiou on upleen will also be welcome- $\Lambda$ Stewart, at The Oak ILouse, John Sireet, Henle:

Belsize-Bradshav.-I shall be grateful for any hints and tips in connection with the rumning of n 1920 HelsizcBradshaw. The loan of an instruction book would be welcome-L. IRayner, 1S4, Hazelwood Lane, I'almer's Green, N. 13.

Cilbor, liover and A.C.-Opinions as to the relinbility, wenring qualities, maximum and average specds, petrol and oil consumption, hill-climbing and so forth of the $10-23 \mathrm{~h} . \mathrm{p}$. 'Iolbot, the 9 h.p. Fiover and the 12 h.p. A.C. will be very useful to me-H. C. W. Roberts, G, Grantlen Terrace, Mount Vernon, wear Glasgow.

## LOST.

Ramcont.-On Saturday, September 19tb, between Newmarket and Braughling, llerts., a new Letitrane leatheretto moter coat. If the finder of this coat will please return it to He I shall be much obliged.-Laurence Standish, 42, Mighbury Grove, I momen, N. 5.

# Y O U R <br> CAR <br> FOR 1926 

Always renowned for its speed and beauty, the ALVIS Car for 1926 marks a distinct step forward in the development of still greater luxury in perfect motoring at an economical figure.

## ALVIS sets the Pace to all comers

## More Power

A bigger engine, of one type only. 12 50 h.p. Overhead Valve, develops exceptional power, yielded with the utmost economy. 30 miles per gallon of petrol. . 6 to 60 m.p.h. on top gear. Tax only 112 . Flexibility and sweetness a $\ell$ all speeds equal to any six or eight-cylinder car at greater initial cost and upkeep.

## More Control

With the newly designed single plate clutch, delicate and light in operation, gear changing becomes child's play. Finger tip control of steering is an accomplished fact, due to perfect balance and weight distribution.

## More Safety

Four Wheel brakes designed and developed as an integral part of the chassis give instant action without vibration. Of great strength, they may be relied upon to give lasting service.

## More Beauty

The re-designed chassis has a beauty and simplicity of layout that will delight the eye of every engineer and experienced motorist. The beauty of design expressed in the outward appearance of body-work is a masterpiece in the art and craftsmanship of coachbuilding.

## More Comfort

Coachwork with grace, comfort and quality. Wide doors, plenty of leg room, adjustable seats, up holstery with a depth of comfort -all so designed that one may step out of an ALVIS rested and refreshed.
More Value
These improvements for 1926 are offered in a full range of models at considerably REDUCED PRICES. May we send you full particulars? THE ALVIS CAR AND ENGINEERING CO., LID., COVENTRY.
London Distributors: Henlys, Ltd., 91 and 155, Great Portland Street, London, W. 1.

## Power with Beauty


"Built up to a standard, not down to a price." UOLSELEY The Cars of QUALITY.
Prices for Season 1925-6.
The WOLSELEY 11-22 h.p. Model.
Choice of colours on Two and Four-seaters. Greatly reduced prices on de luxe models and Light Saloon. All two-seaters have two doors, and four-seaters four doors.
Two-seater (two doors) - $£ 235$
Four-seater (four doors) - - £235
Two-seater de luxe (two doors) - £265 Four-seater de luxe (four doors) - £275 Light Saloon (four doors) £325
", ", (with aluminium panels) £340 Four Wheel Brakes $£ 12-10$ s. extra to above prices.

## Stand No. 138, Olympia.

WOLSELEY MOTORS LTD.,
London Slowrooms : Wolseley House, 157, Piccadilly, W.


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We invite readers to send us We invite readers to send us experience for inclusion in experience for inclusion in this featare. Five shilings
will be paid to the sender of any hint published.
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Fitting an Oil Pressure Gauge to a 7.5 h.p. Citroen.
atnuy modern cos have an oil-pressure gauge as : standard fitting, but there are somu. Citrocn Leing pi
 I smally i.j hil). such a gatube til an engine not so equipped is by mo me...5 a simple matter ; in almost entry cace it is necessary to dismantle the engilne completely and attach on wil pipe to the delivery side of the cil pump. The fitting of this aecessory to the $7.5 \mathrm{~h} . \mathrm{p}$. Citroc̆ $n$, howerer, is a romparatively stuple matter.
This particular cheine has a small rotary pump which delivers two pulses of oil per revelution, and which is located in the rear near side of the


By removing a ping in the crankcase of the $7.5 \mathrm{~h} . \mathrm{p}$. Citroen a pipe may be taken to the facia board and a pressure gauge fitted. The tap is incorporated as a safety mensure for use in the event of a breakage in the pipe.
crankease
The oil flows through a small pipe runuing the full length of the crankense, and drilled with four holes, cach of which serves as a jet to allow the oil to pass into the four big-end troughs. The extreme front end of this pipe is stopped by a small plug tapued into the front end of the crankense. This mug can be casily located. as it is about level rilh, and just in front of, the oil drain tnp on the side of the crankease. If this plug is removed, and the engine started, oil will issue frecly from the bole. It is to this blug that the oil pine to the pressure gauge can be attached.
The plug should be removed, and the hend turned down in a lathe and threaded in. ins. A collar should then be made out of a piece of bexagon bar. and threaded in, gas inside. This collar serves to connect the plug with an ordinary petrol tap. The Hlug must be drilled down its centire with a $k$-in. drill, the collar serewed oil, and the plug then replaced in the
crankense. The petrol tap ean then be serewed into the collar. The tal will serve to cut off the oil from the gauge in the event of a failure of gauge or pipin:. Any suitable copper pipe is now run from the tap to the gauge (which should be attached to the dashboard), a small bore pipe being least expensive and easiest to run. A small coil shonld be made in the pipe run, as this gives it some elasticity, and teads to prevent frac ture. $A$ gange manufactured by S. Smith and Sons (M.A.), Ltd., and reading from $0-10 \mathrm{lb}$. per so. in., is very suitable.

It will be found that in summer, at about 25 miles per hour, with the enHine at normal temperature, the oil pressure will be from 17 lb . to $1 \frac{\mathrm{lb}}{\mathrm{l}}$. ner sq. in. This should be carcfully noted, as an increase in pressure would indieate the stoppage of one or more of the jets supplying oil to big-ends, and in fall in pressure would result from lack of oil, or failure of the pump or the oil gauge system.

## Reducing the Thickness of Washers.

Reducing the thickness of a washer by filing it down is apt to be a somewhat difficult task, owing to the trouble which mas be experienced in
holding the waslier. A good plan is to procure a block of fairly soft wood having one surface fat. The washer should be placed on the woorl and given a sharp blow with a hammer, causing it to sink partly into the wood, which will bold it with comparative security. The wood may be put in a vice and the washer filed to the desired thickness.

Care should be taken to insure that the washer sinks evenls into the wood. otherwise one end may be filed thinuer than the other


A stiff wire brush fitted in a breast drill as shown is very use.ul for decarbonizing side-valve engines which have no detachab e head.

## A Decarbonizing Hint.

Removing earbon from the cylinder head of a side-valse engine not fitted with a detachable head is apt to be a somewhat tiring task. It may be greatly simplified, iowever, by usiner a strong steel bristle brnsh of the tspe shown in the illustration. These brushes mas be purchased for a few pence from almost any accessory dealer. If the havdle is suitably modified to fit a breast drill, : few turns with the brush against the cylinder head will remove effectively all trace of carbon. Besides being much quicker, this method has the advantage of leaving a smooth polished surface.

## J.M.C. (London, W.4).-To redace the "tappet elick" the tappet heads could be drilled out and fibre pads <br> IN AINSWER To youn QUERY.

 driveu in, thus climinating the metal-tometal contact.A.M.C. (Croydon).-You will find that the tubular cross-shaft bearing the starting haudle on your 12-20 b.p. Calthorpe is mounted on brackets which have eceentric plugs. By rotating the cross-shaft you can align the starting handle so that the claw meshes properly.
A.P.P. (Nottingham).-We see no reason why the arm of the cluteh pedal of your car should not be sawn through and an extension piece welded in to compensate for the shortness of your injured leg. It would be more simple, however. to clamp or screw a suitably shaped block of hard wood on to the existing pedal face.
H.ED. (Spalding).-In addition to the adjustment points on the brake cables of your $\$ .3$ h.p. Renault car. the brake arms have serrated fixings on the brake camshafts. By undoing the clamping nuts you can reset the arms, which should make somewhat less than a right angle with the cable when the brake is off. but not moro than a right angle when hard on.

> Enclose stamoed envelope, nlease, for repty by post. Wc do not answer queries over the telephone.
D.N. (Willenhall).-As you are confident that the wheels of your car are correctly aligned, we suggest that unequal brake adjustment is responsible for the skidding tendency you mention.
W.IL.B. (Lancaster).-The jerky ruuning which oceurs when opening the throttle after slowing down is probably due to dirt in the carburettor, or to defective magneto make-and-break coutacts, which require cleaning and setting to the gap recommended by the manufacturers
A.F.M. (Rochester).-The Listering of the paint on the right-band rarwheel brake drum of your car is no doubt due to the lack of compensation between the rinht and left-hand brakes: that on the off side is apparently bind. ing slightly. thus causing henting up and consequent blistering of the paint. You should atiost the brakes carefnlly and equally when the trouble will dis appear.

JN ANSWER TO YOUR QUERI (contd.).
J.R. (Harrognte).-A soft rag lamped with a little linseed oil usually removes the spots found on varnish subsequent to rain
F.II.F. (Eendon).-The fucl leak from the base plun below the main jet of the Zenith carburetter fitted to your light car, may be due to the nbsenec of We red fibre irasher. Without this it is rery diffeult to make a petrol-tight joint.
G.T.P. (Whitby).-The use of hard stopping to conceal the screw beads in conchwork pancls is not alw:ys effective, but you will probably find that you can malie a good job by tinning the heads of the screws before insertion and then soldering over the head and the hole when in position. A Hush surface will be presented after the surplus solder has been removed.
R.O. (Hednesford).-To restore the fficiency of your light car engine, which has pocketed valres, due to contivued valve grinding, it will be necessary to have a certain amount of metsl removed from the combustion chamber around the valve seats. This will necessitate the use of a special tool, and the work should be entrusted to those who hase facilities for its execution.
D.M. (Weston-super-Mare).-The pro cedure which you must adopt when setting out for a foreign tour can best be obtained from the motoring association of which you are a member.
A.W.W. (Kingston).-The difficulty which you have experienced with grease in the front hub eaps of your 5.3 h .1 . Renault car is due 10 this lubricating medium not being correct for the purpose; the makers recommend thiek nil.
You need suffer no anxiets regarding the oiling of the cluteh thrust race. On the Renault this bearing is enclosed in the ball joint in front of the gearbox which. of course, is lubricated through the plum in the easing with thick oil. The whole nssembly is supplied from this one weint.
P.G. (Great Crosby).-The-trouble which you have experieneed, due to the stud lonles in the cylinder block beroming choked during deenrbonizing, can be prevented in the following way. Obtain the same number of headless bolts as those which retain the eylinder head nnt cut serendriver slots in one end of each The length of these bolts slinuld be less than the depth of the holes.

Before commencing to scrape off the carbon serew these bolts into the holes so that the tops are flush with the sur face of the block. There will then be no creviees into which the carbon can find its way.

Fe.J. K. (Dover).-The relueed efficierey of the stabilizers to which you refer may be due to lack of adjustment to compensate for the wear of the friction dises, or to the surfaces of the dises having become polished. In any ease, it wild pay you to dismantle the stabilizers and clenn un the faces of the friction dises with a wire brush nud a little betrol, as polished surfaces do not exert the snine damping effeel as those whieh are rough.
 an exhaust henter for the rear compart ment of your four-seater light car, in breparation for the cuming winter, is not a dificult job, and the time required will be a mattor of a few hours. The first step is to drill the exhaust pipe and fit a collar to hold in positions the branch pipe leading to the heater. The best position for this junction is in front of the silencer, so as to takn advantage of the pressure which is higher before the gnses enter the silencer than in the tail bipe. The pipes userl for the heater shonld not lee more than bale the diameter of the exhanst pipe : a tap will be reguired, controllable hy the rear-seat passengers for the regulation of the amount of heat. Avoid light-angle bemels if possible, amt kow the pipes away from the woodworl:. Asbestos sheet should be nsed as an insulatiug medinm where mecessamy for the prevention of fire.

## CLUB ITEMS AND SPORTING EVENTS

## WYE VALLEY M.C. AND L.C.C.

The nutumn hall-day reliability trial of the ill be held on Thursday. October let, starting from Ilerelord at $1 \mathrm{pm} . \mathrm{m}$. The event is ogen to motorcscles, thece-wheclers and cara. Entries, which close on Sentember 26th. should bo sent man, Dragon Giarage, IIerclord.

## ESSEX COUNTY CLUB'S GYMKHANA

On Saturday last (September 19th) the Fissex County and Southend-on-Sen Automolila Club held a gymkhana at Hadleigh, Ebses. Among the cvents were a tent-pecting race, an egs-and Although tho weather was very unfosourable, here was a large attendance, between 20 and 30 cers laking jart in some of the events.

## A.C.U MIDLAND CENTRE

Thrie wheclers are eligible for the open Aleo Rose Trophy Trial of the Midand Centro of the Satulay October 3rd, starting from Lickey Bock on tho Old Birmingham-Bromserova road at 1 p.th. The evedt is of a aporting naturo and there will bo several obecred hills. whilo cceleration, braking and restarting tests will

## CORK M.C. SPEED TRIALS

Two clases for light carn were included in the Cork and District Notor Club's Specd Trials at Killesth. Co. Cork, on Wednesday, September 91h. The mecting was well supported and sood sport was witnesscd. Tho results of tho
 $\begin{array}{lll}\text { speci, } 37.34 \text { m.n.h. } 1,100 & \text { e.c. to } 1,500 \text { c.c. } \\ 0\end{array}$
 Reidy

WORCESTEASHIRE M.C.S TRIAL
The Worcesterahire Motor Club will hold a onc-day trial on Saturdas, Orfober 10 th, ilarting from the Fox Inn. Dransiord, near Worcester. Tluw rninte, which will he appraximately
120 miles in length. wjll finclude sereral watersilashes and icst hills. Serect sherka will be made, but tha resules oblalned will not bo laken inin armunt except in the erent of a tíc. Awards for the best lierlomanen in tho varions clanues include the Radgery Shleld in the over

1. $10 n$ en. clasa, the Pregident'g Cup Ior under 1.100 e.e. clasi. the President'g Cun for under
1.100 r.c. cars and the Kay Con In the clasa lir combinations aud threewheclers. Full par Nr. C. Collins, 26, Butts Walk, Worceater fom 1348

## REDDITCH M.C. AND C.C

 The ball-day aporting reliability trial of the Oetoler 10 th has been postponed and will actually take place on October 24ith
## FORTHCOMING EVEITS

Scatember 21-2G
Moloa Cyclo Show, Olympia.

## September 2 G.

J.C.C. 200-Mile Itace, Brooklands Sution Culdfield and $\underset{N}{ }$. Birmingham Bristal M.C. and L.C.C. Third Car Rochadale and D M.C. Southport Speed Midrlegex County A.C. Mosing Run and Competition.

September 27 th
Southport MC. Halsall Cup Trial
I'ublic Schools M.C. Batloon Chasing Southern Jowett L.C.C. Mitchell Cup Clly of London M.A. Treasure IInnt.

Wre Valley M.C. Ond L.C.C. Autumn Hall-day Trial.

October 3.
Briphton and Move M.C. Specd Triala, M.C.e Ores. Onc-day Sporting Trial. $\begin{array}{lll}\text { Ebsed M.C. } & \text { Brooklands Mectimg. } \\ \text { Bristal M.C. and L.CO. } \\ \text { Inter-club }\end{array}$ OxIorsl MC. Eurl-ol-scason Trial. A.C.L. (Midland Centre). Alec Ros TC.E Sorkshire Centre). Social Run
Disabled Drivera M.C. Cinsing Rally.

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Octolucr 9.17
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Olyinpla Motor Show

SOUTHPORT M.C.'S 1926 PROGRAMME. Tho following events for 1926 hove already been fixed by the Southport Motor Club:-Janu ary 9th. Race meeting followed by annual Race mecting. Aprll 17 th : Cliampionshin race meeting. July Jrd. Auguat 14 th and Subtemher 4th: Race meellogs.

ROCHDALE AND DISTRICT M.C. Quen and closed specd trials will be held on the Southport Beach to-morrow iScplember
26 th) by the Roclidale and Jistrict M.C., slarting at i.so p.ru. There will be no fewer than 28 car classem, each of these licing sub-diviled into amatenr and trade: slandard louring.
standard bports and cars of any ts lo will bo standard bports and cars of a
catered lor in the nrogramme.

KENT AND SUSSEX CLUB'S SPEED TMIALS. Sueed trials were held at J.cwes on Salurday
lat (Septemacr 19th) by the Kent and Susser hath (Septemper, 19th) by the Kent and Susser although there was a large entry the classea
wire rin olf wel? to time. As will ger gechifrom
 taslest time of the day,
Tho winners of the premicr awards are an allow:-Normanburst Challenge Chin for the Callyn Chullenge Cup for the best pertormanco ay aports car E. Mircery (Frazer-Nash). Clayton Cup for the beat icerlormavec by a tonr-
ing cur: E. L. Short (A.C.). The followiag arc the clase
.e standard fouring cars elass winners: -1.500 1,100 c.c. sports cara (amitcur) J. A. A. Hali (Morgan). 1,100 c.c. sports cars: J. A. B. Ball (Norgrun). 1.500 c.c. aporls cars (omateur): E.



## M.C.C. HIGH-SPEED TRIAL

A 100 -mile high-speed relinbility run will bo held by the Motar Cycling Club on October
17 th at Braoklands. The cront Is open only o members of the organizing cluh. and onery will be classes for motoreycles, threc-wheclers and cars. Tho classes lor the two first-named will be run cut in the morning, starting at 10 morning and afternoon events are cach limited lo a ficled of 60 . All competing vehicles must do in touring trima with the full makeris inndard equipment and must run in this condition throughoit the irial: silencers will hare Hegulations. There will be no road section, the entire event belng run oll on the track itscle. The averngo specds required in the light rar ciasses 10 gain a gold medal are as follow:-
l'hrec-mheclers of any capacis: $41 \mathrm{~m} . \mathrm{p}$. h . Cars
 c.c., 40 mip.h. Fintrice, which close on Wednesday, Oefober 7th, should be sunt to the fion. nescanizur. Mr. J. A. Masters.122, Norland
Aquare, Kensingion, Iondon, W.11


## Another Clean Sweep on Wakefield Castrol！ BROOKLANDS AUTUMN MEETING


 There is a grade of Wakefield CASTROL specially suited to your necels．
If your sump contains another brand of oil．CASTROL can be added，though，naturally，best ${ }_{1}^{\text {ressult }} 100$ will not be attained until 100 per cent．Castrol is in usc． Every one of the Eight Races was won on Wakefield Castrol！

C．C．Wakefield \＆Co．，LTD．， All－Brtitish Firm．Soccialidts in Moter Lubiciction． Wascreild H suve，bleceposide，Loodon，E．C． 2 ．
 Of the 30 races run at the four previous B．A．R．C．Meetings this year，no less than 28 have been won by users of Wakefield Castrol －a remarkable tribute to the wonderful efficiency and universal popularity of－

WAKEFIELD
ONE Yank IN every SIX has a Car． Ism＇t it time YOU had YOURS？ FIFTY TO CHOOSE FROM．

Every Car Thoroughly Overhauled．


Dynamo Lighting．Good Tyres．Speedomeler Appearance Anew．19xed．Mechanically sound Chaned for year

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``` Condition VER，1922， \(\mathrm{h}^{\mathrm{h}}\) p．，2－Seater，Dynamo Lighting．Good Tyres． Thoroughly overhauled．Guaranieed condition
SINGER 1924 ， 10 h．p． 4 －Senter．Starter \({ }_{1}\) Good Tyres．All－ ع115 UNTT，1927， 8 h ．p．．Water－cooled， 2 －Seater and Dickey，Dynamo Thorouglv overhnuled and guaranteed E3 PERRY－BEAN，1918， 10 h．p．．2－Seater，Double Sunken Dickey appearance very smarr．Taxed for year．A anip．．
a really sound and economical car
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ROVER, 1923. Chummy, }8\mathrm{ h.p., De Luxe. Leather Upholstery,
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ROVER, 1923. Chummy, }8\mathrm{ h.p., De Luxe. Leather Upholstery,
Dynamo Lighting. Good Tyres, Speedomeler. Appearance
Dynamo Lighting. Good Tyres, Speedomeler. Appearance
na new. Taxed. Mechanically sound (
na new. Taxed. Mechanically sound (
ROVER 1923, 2-Senter 8 . Recoachpained. Yaxed lor year
ROVER 1923, 2-Senter 8 . Recoachpained. Yaxed lor year
ROVER, 1923. 2-Seater, (am.p.Starter. atman new Tyres. ge
ROVER, 1923. 2-Seater, (am.p.Starter. atman new Tyres. ge
ROVER,1923, 2-Senter, }8\textrm{h}.\textrm{p}.,\textrm{DynamaLighting. Good Tyres.
ROVER,1923, 2-Senter, }8\textrm{h}.\textrm{p}.,\textrm{DynamaLighting. Good Tyres.
Double Dickey. Thoroughly overhauled. Condition
Double Dickey. Thoroughly overhauled. Condition
ROVER, 1922. ⿴囗⿱一一口
ROVER, 1922. ⿴囗⿱一一口
Thoroughly overhauled. Guaranieed condition
Thoroughly overhauled. Guaranieed condition
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Another, with Dickey, as new, OStarter, Good Tyres, All-
UNTT wahher Equip,W%. Taxed tor year. Condition and new..
UNTT wahher Equip,W%. Taxed tor year. Condition and new..
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Thhurglv overhmed and suareteed E3O
Thhurglv overhmed and suareteed E3O
PERRY-BEAN, 1918, 10 h.p.. 2-Seater. Double Sunken "Öckey.

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PERRY-BEAN, 1918, 10 h.p.. 2-Seater. Double Sunken "Öckey.
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m, 196. Sa
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m, 196. Sa
HUMBRERETTE, 8 b.p., 2-Seater. Thuroughly overhauled and _.. \&2
HUMBRERETTE, 8 b.p., 2-Seater. Thuroughly overhauled and _.. \&2
a really aound and economical car

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    a really aound and economical car
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Deferred Terms arranged．
Exchanges a speciality．


45 \＆406，GARRATT LANE， EARLSFIELD，S．W．18．mumbeos wont
Open 9 s．m．to ap．m．and Sunday morniogi from
TRIAL RUNS WITHOUT ANY OBLIGATION．


## AROUND THE TRADE.

A booklet recenty issued by Trpley and Co., IBelvidere Worls, 'Totton, Southompton, shows the interest which is added to motoring when the car is fitted with a gradicut mater.

The mice list of Gutta Perchn Cord tyres, which are handed by Gutta Perchan and labber (London). Ltd., 30-: 2 z , 13nlencer Strea. Landon. Wi.1. offers 700 by SO covers at £2 15 s . Bll. and 710 by 90 at $£ 4 \mathrm{~T}$.

Owing to a typograplical error the lure of the V. P. Mamafarturing Co.'s driving mirtor was given in last week's isstre as 10 s., aetually the ietail price is 12s. It should be noted that the mirror may bo had with a black and nickel finish.

Mr. F. II. Dunglass, who has been associated for a considerahle mumber of years with Mandes' Motor Mart as sales mamper, has resigne? his position to take up the management of the old-established firm of Longman IBros., 17, Bond Street, Ealing. IV. 5 .


This group of emplogees of the Vacuum Oil Co., Lid., can claim a total of 1,916 years' service.

Among the enrs sold rematly by Anto-Abctions, Let, of Horsefery lioad, Westminster, Landon, S.W.1, have been it
 seater for £115, a 1921 Wilsoley Ten for Llou and a 1923 9.5 h.1. Rhode chammy for $\begin{aligned} & \text { ESt. } \\ & \text {. }\end{aligned}$

Mr. A. l'. Rey, who has been engaged actively in the business of Messrs. A. I' Rey, of Enston Romb, nearly a quater of a century, is siving in, his interest in the concern. Dis successor will be Mr. If. I' Leastoy, wher hats beed assueiated with Mr. Rey for the bast six years.
 mambacturers of Goodurav tores, ask us (o) buin ont that they wre in no wat commeted with Mossrs. fionlyear am? Sons, moter whed nad truck makers, of Dudles, whense business is amomeed as hasing been acguired by the Dunlop Linbler Co., Lus.


#### Abstract

A staff dinner given by the directors of the Vactum Oit Co.. Ltd.. at the LIotel Vietoria, was attended by were :30) gnests, inchading representatives of the emmpinas abonshout the werld. Whring the evening there members of (luc centany, each of whom had a record of fo years assoceathon with it, received presentations. They were Mr. IE IV J.fwt, the chnirman. Mr. H. Patersen and Mr. W. J. Winedward.


## RESULT OF LIMERICK No. 38.

The winner of last week's Limerick Compuition is Mr.
 who submitted the line which is itilicizerl below :A tomrist from Jotany lay Ifad his evelecar stolen ome day He minht have eudured,
bat it wasn't insmed-
For he'd "won" it himself the same way.
Another lime suggesting the same idea was reereived from a Kent reader, but the wording was not, in our opinion, fuite so neat.


TO THE READER.-By mentioning " The Light Car and Cyclecar" when replying to


# Looking A head! 

I
There will appear very shortly in The Light Car and Cyclecar an announcement of considerable interest to Economy Motorists, relating to the activities of the ALLEN-BENNETT MOTOR CO., LTD., for the 1926 Season. It will at once be apparent that the leadership which Allen-Bennett's have gained in the Light Car field will be still further developed. And these developments will mean that the BIG STOCKS for which Allen-Bennett's have always been noted will be still bigger; PROMPT DELIVERIES will be even more expeditious; and the unique facilities and "Lasting Service " that have established Allen-Bennett's as one of the most successful enterprises of its kind in the country, will even more thoroughly commend themselves to the ever-growing numbers of their customers.

## EXCHANGES.

Nowhere are the facilities for EXCHANGING your Car so gencrous as they are at Ailen-Bennett's. If you like, A.-B's will take over your present Car NOW, paying an agreed proportion of its value in cash, retaining the rest as deposit on a new 1926 model whenever you mav want it.

## EXTENDED PAYMENTS.

As "Pioneers of REALLY CONVENIENT TERMS" Allen-Bennett's offer you arrangements that essentially appeal to business men. Their essential basis is a reasonable preliminary deposit, and the balance spread over a period so adjusted that the monithly payments are comparatively light, leaving you a margin to ENJOY your Car whilst paying for it.

## Always in Stock for 1926 :

> AUSTIN, CLYNO, HUMBER, LAGONDA, MORGAN, RILEY, ROVER, SINGER, STANDARD. Almost any make of Car Supplied or Exchanged.

Special Note! Always an unequalled selection of SECONDHAND LIGHT CARS -amazing bargains at all times. No better place to buy Second-hand than at Allen-Bennett's.

## Allen-Bennett Motor Co., Ltd.

 8-9-10-11, Royal Parade, WEST CROYDON. . . . . Croydon 2450-1 \& 968.Open every day till 7 p.m.-including Saturdays. Buses 12a, 19a, 34, 49a, 58, 59, 75, 134, 158, 159, etc., pass by or near.

WHEN REPLYING to advertisements, mention "The Light Car and Cyclecar." It helps the

## SECOND-HAND

AND NEW

## LIGHT CARS, CYCLECARS,

 and ACCESSORIES FOR SALE"The Lisht Car andi Cyclccar" deals with its own types of machines cxclusively. Old cars produced before 1912 as distinct from modtern light cars, and cars with an engine of a cubic capacily exceeding 1,500 c.c., cannol be accepted for its advertisement columns.

## RATES.

Far savertisements in inls sectiont 12 warde 21 (minimum) $2 a$ per
 with oorder and otherwise net.
DISPLAYED ADVERTISEMENTS. 8cale of charges, with reduction for seriea. nent un applicetion.


## REGULATIONS WITH REGARD TO ADVERTISEMENTS.

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Box NUMBEns.- Adertisera desiring to have replites cont care of The Ligbt Car and Cyclecar" masy do no on paymont of nominal fee of Oilox cover booking the Light Car and Cyclecari count part of the
adrertiacment. DEPOSIT sYSTEM.
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Oopy for, and all mather relating to. adrertamentemund reach our Box 147. THE LIGMT. CAR AND CYCLECAR. T-15, Romeizay $A$ PENDE, LoNDoN, E.C.1: if proin of dinplayed adrertisemente are required, copy ahould be forwarded in uumclant time to allow of to beins

Other Bualneat and Editoria! Notices and Subacription Rator onl be lound at the end of this mection

## notice.

Using to poatal delage and Irregularition, it is adrlasble to poit advertisements EARLY ON MONDAY so as to nmura as far an posulble, that they reach ni by the Finer posp woo late for meluaion althorgh deapatched on Monday.

## SECONDHAND <br> LIGHT CARS AND CYCLECAR.S FOR SALE

A.E.C. EA.B.C. Molorn, Ltd., Wallon-on-Thamea. Phono, ropaira manaA.i.C. cara carried out by experta at the factory. A.B.C. ownery ino to writu for catalogua of improvermenta.
A.E.O., 1922. Sporth, good tyrea, overhanted, thast, bargala, e68. Delom. A.\&.C., 1922, 3 -sealer. Triplez icreena, nov tyres, dartor, e78. Belor. A.E.C. 1925 , Sapor Sporta to stack, beaten ahominlam bods. Raprons. Ward and Co., 51 Upper Richmond Ro., Fest Patney. 'Phone, 2818.19. A.D.C., 1924. 4 -seater, milleage 6,000, ne- candition: exchange cherp 2

A. . C. and some 60 odd others. Termas trom onetenth down: exchanges

A.E.C., 870 1923. aporta, juat complotely avorhauled and coachpained, nc hoad nited, 5 detachable wheell with Englobert tyres in very good conditlon. privately owned.
Engineer, Wellgato, Clitheroo, Linos. A.D.C. Regent 1922, fally equipped, dynamo Hghting, verf fast, 276. or exchuingo emailer car, Morgan. 52 Lower Ham Rd., Kingeton. $670-39$ A.B.c., 1922 Regont 2 ecator, dickoy, layed, thaured July, electria
Lorn, extra air, ctc.,



 A.e.c., lato 1922, Rezent model, 2 -sonter, aunk dickey, poliahed sinminium tonnet. rery handiome car, 4-speed, dynamo lighbing, atarter. hood, windecreen. Smith's trip apeedometer. 4 inspa. electrio horn, bulb born, alazunium number placea, elc., tax paid, 210 10a. imarance


670-793
A.c. cartisness and Oo., Led., the A.C. apecialista, have for diaposal seversl Caltiness and Oo., Led., the A.C. apecialista, hare for diaposal zeversl

A.C., 1919. Girst resintered 1921, 2 -weater, dynamo lighelng. ote., re
 A.C. 2 -soaler. double dickey, frat-clane order 2100 : deferred lerma ane

 A.c. shorta model, aluminitum body, only 290 caph or 22210 . down and 12 paymenta of 25 183. 2d. with the option of a rebate: also

A.c. Edwarde oller 1920 2-esker, elarter. clock, apoedometer, excel.
lent condition. 80 euinean; exchanget or deferrcd. 175 Gt. Portand

A.C. 192512 hp Royal 2-aeatcr. as recently linted at 4375 , only run yery few millea as demonatrator and craranceed equal to new. 5288. Nowhmm Motor Co., 2435 Inmmeramith Rd., W.6. Phone. Rirrersidi
$\mathbf{3 1 6 1 .} 57033$
A.C., 1921, Royal model, 10.4. taxed, 2-3 eeator̀, 6 disc wheols, C.A.F. dynamo lightige, now hood, curtalp, paint, engine uphotery like

 ALEERT, 4 eeater, for sele. taxed and inenred, in perfect order, caro-

ALEERT. London Sorvioe Depot for all overhauls, bodywork and apirea: alto for Guynno cara. Adrlce and ealimate Irre. S:cond-hand Alberte
 ALVIS, 1924, super eports, tsenter, an new, 2375: ©ash paymente fram


## AMILCAR.

Sole British concesslonnaire tor Amlloar apares and cara,

AMILCAR. Boon and Porter, Led.
1925 Antest model Super Sporta 2 -tentor, Aniabed crene, fully equipped. 1925 latest modol Supar Sportha 2 -rentor, aniahed crean, fuly equiloped,




## SECONDHAND <br> LIGHT CARS AND CYCLECARS FOR SALE (continued).


 AUSTIN T. 1924, chumms. new Jamuary thit seare axce aliu iesurcd sar, apecdomotes, dono
 AUSTIN 7, 1923, all-weatber equipment, taxed, tuls muinned, splendad

 AUSTINS and nome 60 odd olhorbe Termb 1 rom onc-lenth downi ax-
 AUSTIN 7. Finchley Motorn oflcr 1924, just repainted, excellent conAUSTIN 7, 1924, elcoctric safarler and full equipment, an $670-818$ uperb condition broughout, any trinl, \&105. Frycr, Doro walk Austin, $7 \mathrm{kp}, 1224$. speciometer, lax paid, in pertect condilion $\frac{5110}{}$
 8539. AUSTIN 7, 1924, Thp, chumms model, in new, condition, taxed year. it. W.1. :RLone, Langhan 1212 .


 AUSTIN 7, 1924, кplendid condition, c.l and starter, Epecdametcr, laxed. splendid ${ }^{\text {lyrē̈, }} 100$ guineas. Seen any timo by phoning kingston
1293 . 69 Flfe Rd., Kiggston. $670-792$ AUSTIN, $\boldsymbol{x 1 9 0}$, latc 1925 Brookland Austin, absolutely as mew, vory ett, 40 Aynhoe, Md., W.14. Amilcar, Sencehal, etc., and cash. 670 wirt-

AUSTIN 7 ar, 1923, in porfoct running order and good condition, J new groa, adlyg reason owner buying bikger car, C75. A. T. Halliday,
Sipah Lanc, Hayling Island, lorlsmouth.
A. V., sporidg little car. 8hp J.A.p., slarter, dise wheols, screen, 5 mps, Klaxon, 29 cuibeas; exchango motorcycie; easy torma. Wands-
worth Motor Exobage. Ebues St. Wandsworth (Town Station). 670874 A.V. monocar. 6 bp , absolutely as ncw, many improvements incornorated, flari Lape. Barnes. 'Phone, Putnes 1827. AVERIES.PONETTE, ©29; oxchangen, deferred payments: 1914. small seator, 9hp, 4 cylinders, shait drive, wiro whecls, dvammo 11 bhting. ild., East Dulwich. Sydonham 2452 . $670-842$ BAYLISSTHOMAS, lohp, Octoker, 1923 loew engine and back axle lectiol lignting. sercral extran, including luggage carricr. Michelin balloun tyres on rear and Dunjop cords un front. 5 whocla. 2 spare yres, engine Just orerhauled by makaza, licenacd to June 1925, price ret's Hill. Birmingham. The Light Car and Cyclecar. 16 Ben
BAYLISS-THOMAS, 1925 model, 11-22hp, standard saxc-blue 4-seater, wiper petrol if carricrs, aparo wheel and unuscd ipre lumeaco. wiper, petro
 BELSIZE.BRADSHAW, 192J, Laxed, In good condition, excepllonally DELSIZE.BRADSHAW, 23-ncatcr, Etarler and lightigg, epecdameter fluro whecl, eagino juet orerhaurd. J'hone, Qrosdon 1659 .
BELSIZE-BRADSHAW, 1922 C.A.V. Lighting, speodombter, clock, acces inapp Tho Lhand, Gwallowficld, Roadive. Norgan or motorcycle park OELSIZE-BRADSHAW, 1923, 2-scater and dickey, scle-starter, dynamo ighing, olock, speedomoler, al-wealber equipment, taxed December, fin llarold Simous, 201 Maro St., Hackncy. E. 9. Cliseold 5018. 670-285
BELSIZE-BRADSHAW, 1922, 2-scatcr and dickcy, taxed till 1926. looks now. Michelin Comfort tyres lately fitted, mechanically perfect,
C6J. 248 Lauderdale Mansions. W.9. BELSIZE-BRADSHAW, 1923-24. 4-seater Bradshaw do luxc, all-weather model, mileag: negligibie, 75 guincan. 31 a Mydethorpe Rd., Balham. $670-79$ BELSIZERBADSHAW 2-scatcr, $1 \mathrm{crms} \subset 7$ and 10 payments of $\subset 7$, or
 BLERIOT. WHIPPETS, 1923 and 1924 2-seatera, full cquipment, f30
 BLERIOT-WHIPPET 2 -2esier. Junc, 1923. Shp Blackburre engine, elec ri. mps sparo wheic 160 Uish St Teddin 3UCKINGHAM, ©35; exchangen, delerred nayments, 1922-23 Bucking


## SECONDHAND <br> LIGHT CARS AND CYCLECARS FOR SALE (continued).

BUGATTI, 1925 model Bicesia, filtcil with particularly auractivo ${ }^{2}$

 tended paymmts.
R1veraide 2230 .
BuGATTI. Lec Mans Sneclal. 16 valves. doublo nole manucto, working

 BUGATTI, 1923, 16 -rilve model terater bolle, repalnicd frecn with

 CALCOTT 1923 10.5hp 2 acater, doublo dickes, dynamo lighting







 CALTHORPE, 1919, 4 smatcr, shart appeatraner,
 CALTHORPE. A fino car lor 100 sumneas, 1 Ohp Cathorne do luxe, 4 . tho road. the Anpearl
 specdomoter, electric nnd bulb horns, double deflector scacem. side cur.
 CALTHORPE, 1923, $10-20$ coupe, starting ond lightin- innzinted as
 CALTHORPE, 1920.1 Eports 2 -seater, repainted cream with red winge,
 CALTHORPE specialist. Fxchanges Delerred paymentic 1921 Calhorpe 2-scaler, dickey, \&65. Magnificent 1922-2.5 Vec-iront 4-scater dickey, 4 snecds, \&99. Scabrldsc, 35 Hansler Red. Jiast Jinluirh.
Sydenham 2452 .

 CALTHORPE, 1921 model, 10 bp 4 -sealer, slarker, good condition, 50 6977. CALTHORPE, 1922, 10hp, 4 seater, electric lighting and ktarting,
 ficld. Ettingshall, Wolrerhampion.
ace
and Zescaters in the motor trade, W1G io f30, and a flozen to chooso


CARDEN sports, 2 -acaler, c.l, hood, acreen, mirror. recenlly orerhauled
and repainted, taxed, £20. 65 Idmiston Rd., E.15.
$670-z 14$ CARDEN. Empiro Motors, 325 Iligh Rd., Cblawick, have several 4 seator New Cardens in stock, 1923, from p25: 1924, from f35: ex-
changea, trial willingly. Writo or call. Phone 303. CARDEN, lato 1921 , 2-scater 7 hp oloctric lamps, sparo whecl, etc.,
 CITROEN 7, 1925, 3-coster, starter, spotlight, specdometer, ail screens, ,
CITROEN, $11.41 \mathrm{~m}, 1923$, English bods, 2-reater, sunken dickey, starter,

CITROEN, s48, $1920,10.4 \mathrm{hp}$. 2 -scaler, dynamo lighting, new hood, CITROEN, conpe, 1925, condition as ncw, Gmall milcage and completo equpment. 2130 . Write, Bor 838 . Tho Holford Boltomley Advertising
Sarioe. Lid.. 23 Kins St., E. 2 .
CITROEN, 1924, $7 \mathrm{hn}, 2$ scaler, lighting, etarting, very nico condition throughout, ovorheued. A85jexchango or terms. Chester Mighall, Slcurcliflo St, Edgwero Rd. Padd. 3553. (Fourth turn right from Marble
ATch.) Alway open
$670-935$
CITROEN, 7.5, 1923, 2-senter, laxed, complotely orerhauled by mators, f65. 13lark and Finch, Lid., 222 Gi. Porhand St., W.1. Phone. Mu-
Gum 2271.

## SECONDHAND <br> LIGHT CARS AND CYCLECARS FOR SALE (continued).






 cithaens and somo 60 odd others. Terms trom one-tenth dowiox.








 670-282





 cquipped, reart scm an, cit
CITROEN, 1924 molel $] 14$ Enclish de luxe 2 scaler and dickey, fully cquipped, exexeirent condition, 115 guillcas. Below.


 mater, reur sereen, ud...
fect. Laxed, d77. Melow.
CITROEN, shighty showroom soiled, 11.4. English body, complete makera' specification, guarantce, 1 yo guincas: exclinilga, extended paymente GITROEN 1925 conpe 7 , nlieolulaly new condlion, e120. Clark 22.3
 CITROEN 7, 1923, c75i cash paymente from 10 per cent. down: ex changas. 1) Raillon and Co.a 6 Chapel St, Salford, Maucheater. $\mathbf{6 7 0} \mathbf{~ C e n t . ~}$
8539 . CITROEN, 7hs, lale 1924, 2-seater, wiartet, electrlo horn, lighting. halloon tyres, excellegt conditlor throughout, tax paid, bargaing f80.
Walkins, jumpou, opposita Cllympin, Iondon. Citroen, cloverleal 7.5. 1925, as new, $\& 110$. Denman, 4 Denman
Place, IViccadilly Carcus. 1egent 986. CITROEN, 1925,7 hp, eloverleal model, rery litlo used, small mileage,
 CITMOEN, excentional bargain, 11 hp . Engligh body, 4 seater, new but

 CITROEN, $10 h p, 4$ senler, new condilion, lerms s7 and 10 paymenta
 CITROEN, 1922, dynamo, taxcd, \&G5. Below
 and Co., Lid., 11-15 Bishopsate Avenue. Camemilo St., E.C.3. Avenuo $670-64$.
5548 .
 in fine condition, $£ 122$ 10s.: deferred teras. Bartletle, 93 Gind Port



CLULEY, 1923 , $11,4 h p, 2$ senter nnd drickey, dynamn and starter. ex or biropurchase. Thic Light Car Co., 404, $410-414$ Eriston Rd., Kondon. CLULEY, mmall 4 seater, last ycar's. cost \&290, mileage 3.500, condi( 673236 CLULEY, latest model 2-seater, fullest equipment, shop-soiled only,
s200. Smlth and Hanter, 90 Ge. Portiand St. CLYNO. Cnss.s Motor Mart, I,td. (Fstablished 19111 Do luxe 2-


## SECONDHAND LIGHT CARS AND CYCLECARS FOR SALE (continued).

 soiled onis. Willim Vincent, Coach and Motor Works, Reading. 67 Phone
1047 . 967 CLYNO, 1924, 2 seater, dickey, gtarter and lifhtioz, laxed gear, allCLYNO, 1925, ocoamional 4-scater, balloon tyres, taved year, nomerous

 ceriano. Edmardn offer 1924 4-mater, fully equipped, starter. clock,
 CLYNO, 1925. 4 -seater. 6 delachable whecls, balloon tstes, many ex-

COVENTRY-PREMIER. Edwarde olfor 1922 8ip 2 -seater. double

COVENTRY-PREMIER, 1921, eloctric lighting, 2 speeds and 670-13 COVENTRY-PREMEA, 1921. eloctric lighting, 2 speeds and roverse.
 COVENTRY-PREMIER, $J$-whecier, dyamo lighting. spare whee,
 COVENTRY-PREMIER, 1922, 2-seater, double dickay drnamo lifhting. specdometer, rery small mileago, excellent condition throushout, recently overbauled appearance ns ncw. 252: Mxchange cheaper car or motor-
cycle. 7 Rirerdale Terrace. Peteraham Rd., Richmond.
$670 \times 524$ CRUUCH. Edwards offer 192311.9 all-meather coupe, 2 -seater. dickey.


 DERBY, 1922-23. 2-scater, 8 hp. 4 estinderi, dfnamo lisbting, 2 spare Brixton.
Bpedometer, escetiled condition, bargain, e37. 63 Solon Rd.
$670-25$
ERIC.CAMPBELL, 1924, do luxe. 10hp, 2 -ienter, double dickey, electrio lightiug and atarting. clock, smedorneter. apring gaiters, boot corer, inst


ERIC-CAMPBELL, 1924. chummy model, dynamo ligbling. excellent con dition, lully cquipped. licensed and cuarantoed. R10s: exchange or 40-414 Euslon R.. Loncon-4 ERIC CAMPBELL, 1924, chummy, Starter lighting, clock, speedotheter terms. II. Beasley, late A. P. Rey (Eatablubed 1900), 574 Enston Rd Muscam 7600 .
ERICLONGDEN, 1923.24. Sup. 4erlunder, sporte 2-seater, aluminium
 FRAZER-NASH, 1925 , 12 st tource, 3-ueater, Martiords all ronod, clock,
 Rd., Kingsion-an-Thames. Telephone, Kingston 3610 676-794

C. N., 1921 , dsnamo lifbting, variable ignilion, air strankler, red and
 aptolsers, moter, clock potsol anrrier, mirros, mat, campletely orerhanked recently. ingured till March, 1926. bargain, e45. Ovner 129 Rilberdon Rd. 670 w. 949 Balbem.
G.N., Thp Frazn-Nash, oh.r., 1901, G.N., oports model de luxe, taxed saiting 1 cslinder, magneto recent! , rewound, nex carbod brushee, new racing plus, carbureticr inse overbanted, worn parts replaced by makera (rew jet). engine (1922) and transmulosion recently adjinterd by deriguers.
 new typu large stoaring whel, hargo site bects and bryke drums. rein. dashboard ispeedomoter, clock, dastismp. oic.), aero wiodicrcens, nhtuninium rentilatora. completo He wolk many sparea texpholstered. re-

G.N., 35; exchangen delerred parnents. 1920-21 G.N. 2 -seater. ds namo, spara whect, speedometer, sbork ahsorbers, repainied saye blue. smart.
Sjdenh $m \mathrm{~m}$
2452.
G.N., 1900. 2-cester, electric lighling, good mondition, f32: exchango
 G.N., 1921 insured, taxed, everdize new Dunlops. Wat ford speedumeder.
 G.N. Jato 1920, registercid 1921, dynamo lifhting, spexiometer. 5 de


## SECONDHAND <br> LIGHT CARS AND CYCLECARS FOR SALE (continucd).

G.N.s specially selpeted by the acknowicaged speciallsts in these cars. G.N., rers lato 1922 . dickey, roller-bcaring engine, repainied, new hood,
S.44. G.N.,
G.N., 1922, allweather model, lately repainted, splendid order, dickes,
C.N., dato 1922, rery spechal o.h.v, Prazer-Nash cngine, njuminium pistons, poldsbed nlumininm body, dickes, shock absorbers, all-weather equipment, olock, speedomeler, dash light, screen wiper, pirror, dimmers, splendid tyres extremely fast, comionablo at high speeds, rery smart,
C.N 1921
G.N., 1921, reg., all-weather equipment, exceptional order, bargain, £ड0. G.N., 1921 (late), sacrifice $£ 30$, room wayled.
C.N.s. Others in stock, all dyzamo lightinge conrenient deferred terms. Open Silurdass.
C.N.s bought, orerlinaled and sold.

Valum Co., 37 Beaconsfield lld. (ncar L.G.O.C. Garage), Willesden
lirecn, Ni.W. 10. 'Phone, Willesden 692.
 Hiscs, any trial, $x 0_{0} 78$ shell Ra., Lewisham.
C.N. Edrards olfer 19228 hp 2 -seater, dickey, dynamo, clock, specdometer, excellent condition, 39 Euineas
Portland St. Wi. Maylair 6977.
G.N.g. Farle, Lid. Belor are a lew of oar bargaide
C. N., 1921 French model, elaggercd seats, fully equipped, £24.
C.N., 1922, sellow body, aluminjum bonnet, taxed, £42.
C.N., 1921 (late), domed winga, dickey seat, $£ 30$.
G.N., 1922, Frazer-Nash o.h.r., electric horn, dickey, £55.
C.N., 1922, dynamo, dicker, grey finish, perlect, £49.
G.N., 1922, blue finish, dynamo, dickey, etc., $£ 42$.
G.N.g. Earls, Ind., Tho Vale of Health, Mampstead. 'Phone, Ifampstead 3287. Omen all 9 p.m. Friday, 1 p.m. Saturday. Book to ITampstend
$670-975$ C.N. 19212 -soator, 9 hn, 3 and rererse, dynamo lightng, spare wherl, Teddington Garage, 160 High St, Teddington. Kingston $2562.670-245$

G.N., 1921, 9hp. 2-senter, electric liphting, recently orerhauled, price
£20. Fred Lloyd (ALotors), Lid., Non's Corner, Grimsby. 670-w993

G.N.s. Two rery epecial models mith polished aluminium bodies, 845
Delerred torms and exchanges. Andrews Molor Mart, 151 White 1 Inr Delerred terms and exchanges. Andrews Molor Mart, 161 While $1 / \pi r$
Lanc, Barncs.
 GNOME, 2-scater. 1925 ( 2 months old), electric lizhting, specdometer, halloon tyres. alwolutely as new. E55. Deferred terms and exclianges
Andrews Motor Mart, 151 Whito Hart Lanc, Barnes.
670-931
GREGOIRE (French), latest 1922, vers smart 2 -seater, dynano lightang. 9.5hp, 4-crindwr, bood, screen, epare whee, epecdomeler, wiper, only unis seeing: exchanges, eass terms. Wandsworth Motor Exchange,
Ebner St., Wandsworth (Town Station).
$670-875$
G.W.K., lata 1922, 4-5-sealer, All-wealter equipment, Bosch, Zenith. dynamo fishting, 5 detachable wheals, guaranlecd mechanically porfect, E68: lightweisbt part evchango considered. Owner, 2 Ealinglon Jd,
Iretion.
670-v948
G.W.K., must bo sold, ronm manted. 1921 4 cylinder chassis, dynamo lichting, 200 another, with box van, f22 10 s. i alco quantity spanes, rhrap. W.J.C. Molots, 5 Addison Avenuc, Molgand Park, W, 11. Park
2071.
C.W.K., 1921, 4 -scaler, perfect mecharical condition, taxed, $£ 35$ : exrbanges, deterred. Enling Car Agencs, Boileau Rd. Eoling 57265

G.W.K., 2-evliniter, good condition, $£ 25$ or oller. IIoskins, 21 Powney
Rd., Maidenliead.
670 -w'992

GWYNNE $\varepsilon_{\text {, }}$ gecond-hand cars, all models, overhauled and puarantecd

 CWYNNE, 1925, chummy, 4-seater jemonstration model, practicallv now, reducer brice \&165. tayed and guntanteed; also second-hand Regent 986.
GWYNNE 8, chummy model, dymamo lighting, taxed, £95. Elce and and Co., Ltd., $11-15$ Lishopsgate Avenuc, Camomile St., E.C.3. 1 renue
5548 .
GWYNNE, 1923, rery fast car, fully equipped with many extras, tax Telephone, Wentern in splendid running order, 495 : seen after 6

HANDS, 1925. de luxe, double dickey, starler spedometer 670-r85. painted, 4 new Dunlup corde, $£ 75$. Greenhayes. Old Park Are., Fricld.
HILLMAN cary oficial repalrers, London district, J. C. Brodic, T.ti., 14a Chesne Walk, Chelsea, London. SW.1n. Telephone, Kensingion
3200 All apare parts in stock Wellequipped works. $704-\mathrm{g} 326$

## SECONDHAND <br> LIGHT CARS AND CYCLECARS FOR SALE (conlinucd).

HONSTMAN, 1924, A.seater, electrlc lighting, starthg, all. weather, new Mitichelins, spicndict condition
Nupacy, I Edgo Mill, Wimoledon.

HORSTMAN, f62; excharges, deterred payments; 1920 JIorstman 4 HORSTMAN, fighting, staricr, spare wheci, specdometor, rear screcr,
 HORSTMAN, E.70; $10 h \mathrm{p}$, saloon 4-beater, dynamo, specdemetor, elock,
Denman, 4 Denman Place, Piccadilly Circus. Regent 986.670885 HORSTMAN, racing 2-seater, fitted with an all-aluminium body with tail back, dynamo lightinge etc. this car is rery ast ancl open to any cramination, $£ 110,5$ Putney Bridge Rd., Wandsworth. Putney 2728 , HORSTMAN, 1917, 9hp, 2-seatcr and dickey, electric lightirg, mechani-
 HUMBER, 1925, Bhp, chummy body, slighty shop soiled, grant. bar$\begin{array}{ll}\text { gain, \&210, ash or delerred Lerms. Marrods Garaec, } \\ \text { Are, Chelsca. Phone, Western. } 1 . & 670.832\end{array}$ HUMBER, 1924, chummy moded, dynamo and slarter, fully licenscd and
 HUMBER 8, 1923, 2seater and dickey, good condition, recently repained, several acecssorics, $£ 140$ or acar offer for quick sale ITjll
Brow, Amberley, Glos.
 JOWETT specialists, Moin agents. Immediate delivery nesp and accondhand cars, spare paris, orerhauls, bodjwork, clc. Westmin.itar lsridge
Garnge, Jowett Serico Station, 5 Lambeth Palace 1Rd., S.I.I. 'Hone, IIop 5279.
zz7:545

JOWETT, 1922 , 2-scater with dickey, orerhauled, newly mam!ed, car
and engine in sp!endid condition, oversized tyres, tax paid 1925 , eg5, and enginc in splendid condition, oversized tyres, tax paid 1925, ©95.
Newton. Alhambra Bawan, Morecambe. JOWETT 4-senter, latest t3pe, on balloons, cost \&190, our price e120;

 Glos. 670.z55
 JOWETT, $1925,7 \mathrm{hn}, 2$-scaler rnd dickey, starter, balloon tyres, smeedo-
 Jowett, 275,1922 , dickey, dynamo, elc., taxed, good tyres, any trial;
exchanges, delerred. 325 IIigh Rd, Chiswick. "Phone $\frac{503}{670-977}$ JoWETT 1924 2-seater, sell-stavter, taxed sear, repainted, as new 2025. JOWETT. R. G. Gamble, nuthorized agent. For new and secondGlpsy Hill, Crystal Palace. JOWETT. R. G. Gamble, South Tast London Scrwice Depet. Brolt

JowETT, 1925, 2 -seater with dickey, starter, oversi\%e Lyres, specdometer, insured Narch, 1926, taxed December, low mileage, and in per.
fece condition, di20. Oflord and Sons, L!el., 94 Gloucester Road, s. W.
JOWETTS. F.O.C.11., LId., the London depot and service station, hold



KINGSEURY JUNIOR, Bhp, 5 spieds, reverse, spare wheel in good

LAGONDA, 1923, 4 -scatcr, blue, 4 now ipres, spare wheol, all-weather, complete accessorics, $£ 140$, ollers trial. Write, St. I.eger, 8 Oakwond
Court. Kensingtou.
1.AGONDA saloon, 1925, in beaulidul condition, licensed, scarcely used,
£290. Below.
LAGONDA coune, 1925 , small mileage, many extras, taxed, perlect
throughout, $£ 245$, Smith and Hunter, 90 Gt, Portland St. $670-865$
LAGONDA, 12-24hp, ealoon, painted dark blue, pholstered Bedlord cord, fitled with front-wheel brakes and balloon tyres, C.A.V. lighting and starting set, clock, specdometer and driving mirror, in excellent condi-
tion, small mileago, used ondy bs a dircctor, 2290 .
LAOONDA 12 24 ,
LAGONDA 12-24hp allweather Ealoon, painted fade green, upholstered ifres and completo standard cguipment, in first-chass condition, 8295. Full particulars from Lagenda, Ltd., 195 Mammersnith Rd., W. G. 6.831
LAGONDA, 1924, 4-seater, dynamo and starter, excellent order, £365; fully equipped, licensed, and puarantecd: exchange or hire purrhase,
The Light Car Co., 404, 4,10-414 Euston Rd., Iondon,
$670-46$
LACONDA, 11.9, 4-seater, 1924, only 6,000 miles, expert inspection invited, 1175 . Atkinson, 22 St. Thomas Mansions, Westminster
Bridgc.
LAGONDA, 1921 coupn, starter, very smart and running periectly, any
trial, fif. 43 Green lane, Fenge. Syd. $604 . \quad 670-996$

## LIGHT CARS AND CYCLECARS FOR SALE (continued).

LAGONDA soupg, $1922,11 \mathrm{hp}$, 2 -sealer and dickey, liglating and start-

 LEA.FRANCIS, 1924 coupe, 1925 back axle, in exceptional condition, LEA.F.
LEA-FRANCIS, 1925, 10hp, 4 -speed, 4 -scater, small mileage, insured,

 tiun, tax laid, Therburno engine, 2 -seator, dynamo lightidz, well shod, 674 LECOY, Shp very
avecialit. Sonth Ea.ang Garage, 2 mins. South Ealing Dist. Staton,
Ealing 2985. MATHIS, 1925, first replstared 1925. 8hp, 2-seater, startar, Anodition MORGANS. Co (Shemeld), Lld, 261-7 Eceloeall Rd ,
 MORGAN Service Depol, Official appointed repairers by thn Morgan MORGAN Service Depot Full range of spares rarried New and second-
 MORGAN Sich Nopot, North Forkshire. Officially appointed repairects Jy Ior Mor Mor Co. Sparo stockists. New and eecond-hnd
 MORGAN, 1 Ans, Acra traight-sided Dunlops front-mbeel brakes,

 lord Rd. N. 1.6 , family; water-cooled, dynamo, £85; niso 1923-24,
 MORGAN, I
Eardley Jid,
, Sucalham. Mardley Jdi. Strcatham.

 Daid, littjo mased, mechani
MORGAN de luxe, 1921, July, W.-c., 10hp M.A G. special enfine, as new, land up $\overline{3}$ years, Broadway Mill top gear, 60 railes per engipped,
spoedometer. ratehet brake, oversizo tyres, Laxed $x 4$, fully 670 w. 905 £60. Melroso, Bonghton Park, Worcester.
MORGAN, Family, water-cooled J.AP., 1922, disos, screans, tared, Rapsons, spares, one owner, very quiet engine, guaranted nericce, Lower starter, gears 5 and 11 to 1, iC60. P. Bridgewater, Schoon 670 -w 906
Slralton, Swindon.
MORGAN, Family, 1923, MA. G., w.-c., purple, electric lighting, horn. dise, ovorsize, Dunlop back tyre, tased, insured, spleadid 670 w 903 \&98. Flintort, 13 Bridge Rd., Preston, Lancs.
MORGAN, 1925, special G.P. competition model, gero body, 10 hp o.h.r. Anzani cugine, Zenith carburetter, Lucas lighting, clock, speed ometer,
 Hammersmith, $^{\mathbf{W}}$.
 MORGAN, do luve, 8hp J.A.P., w.e., perlect condition, repainted, new hood, discs, sneedomoter, etc., iascd, insurcd 259 . Apply, ${ }^{23}$ H7argraro Rd., IKighgale, N. 19.
MORGAN, 1923, de luxe, 8hp, water coohed, speedcantcor, hax pald year.久75. On, vicw, Taylore, $49-53$ Sussex Placc, Soulh Kensinglod. Prong
Kon. 8558 . MORGAN, Acro, 1925, 10 hp o.h.v., mater-cooted, dsnamo lighting, orcr-
 south Kensinglon. Phone, Kens Mr. Morgan in Six Days' Trial, 10ht Mrand Prix, act unI car driven by ongine, 4-spoed gear, dise wheels, alumisium dashboard, hood, wiudscreen, Stewart trip speedometer, mechanical hom, petrol can carrier, aluminium number plates, ota, tax pad A ero, djnamio lighting. 90
78
High
guineas. 78 High 90 guineas., Mamplead.
MORGAN, Grand Prix, Anzani overhead-valvo engine September, 1904 from-wheel hrake, inst repainted mauve, lory tast and esceptionalds giver Binks cait \{ul] equipment. hood, spocdomoter, Ste
MORCAN
 aly good condition, f50. Grifin Garage, Anersham, Bucks. 670wit
 electric worn, 1ow mileage,
King's Norton, Birmingham.
"HOW TO DRIVE A CAR." Ninth Edition. The niceties of control.

## SECONDHAND <br> LIGHT CARS AND CYCLECARS FOR SALE (conlinued).

Mongan, 1924, Grand Prix, excellent condition, s85. Ciark, 223
Mammersmith Rd., W. G. Phone, Riscrsido 3527. MORRIS-OXFORD, $E \overline{3} 2$ 10s.; $8.9 \mathrm{hp}, 2$-senter, well shod and in good lunning order, delerred ternus and exchanges a speciality, South
 NEW CAADENS, 1924, famlly models, which accommodate two adults
 hart Lanc, Barnos.
BEBE PEUGEOT, 7.9bp, in excellest condtion, completely orerhauled.
 Cycember.

GENAULT, late 1924, 2 -seater with dickey aeat. 8.5 hp, lighting. tarter, balloon tyros, nll-weather equipment, 1140 : exchanges. eas terms, otc., arranged. Cummings, 101 Fulbam Rd., London, S.W. | S. |
| :---: |
| 670 | RHODE. Edwards offer 2923 all-weather saloon, starter, clock, Bnecdometer, nluminium body, 2 spare whecls, excellent order, 110 guinens: HH0DEs or $670-5$

 worth, s.w. 18. Battersca 1509. 670-908 RHODE, ${ }^{116 \mathrm{bp}, 4 \text { seater, } 1924 \text {, mileage } 7,700 \text {, Insured to February, }}$
 (BHODE, 1922, dynamo lighting. recently repainted, well shod, a smart
 aichardson Car Co., Millthome, near Shemicid. Spare parto in GICHARDSON, 1921, 2 -seater and dicker, $9 \mathrm{hf}, 4$ specels and reverse,
 RILEY. Lewes Motor Works, Russex. All Riless completely overhaled $\underset{z z z-162}{ }$ BILEY, 1925, maloon, on stoctal sporis chnssls, filted with FWiB. istol- sto apotighs, netrol gauge, juggage mrid. dimmer swich, inlerad

 RILEY. Another bargain, $\mathbf{x 8 5}, 1921$ model Riles, $11 \mathrm{hr}, 4$-scater, selfelaricr, dyonmo likhligg, specdomoter, luggago frid. ald-weather cquen to A.A. or R.A.C. eraminetlon, ses, defersed II required Alwass open.
liaroid Simona, 201 Mnre St., Hackney, E. Cassold 5018 . $670-286$ BILEY, 1925, specini sporta 4 -scatcr, aluminium hody, with red wings.
 410 and 414 Euston Rd, London
FILEY, 1925, 4 -seater, sporte model, used for demonsiration purposes

ROVER 8, 1922. de luxa. 2-seater, Jickey, speedometer. clock, all-weather cquinment, mileage 8.972 , perfect condition guarantecd, $\mathfrak{x} 65$. ${ }_{671}^{4}$ Kinver Rd. Nortb, Sydenlam.
ROVER, 1922. 8hp, 2 -sester, dickes, 2 doors, good tyree, orerhauled :dc screcens, speriometer, many exiras. $\mathrm{C63}$, or exchange motorcsole and
670 -w 953
ROVER 8, 1924, chummp. de luxe condition guarantced, orlginal 670 erres
5 inmps, s85. Call moctdays. 14 beron Rd., Barking. 670-w 962
ROVER 8, 1924, 2-scaler, dickor, staster, sido screens, laxed, is new,
nover 8, 1924, de Juxe, 2 -seater, sunken dickey, starter, iaxed, ns

ROVER, 8hp, 1922, 2-8eater, rery good condition and appearance, all-
 ROVER, 1923. Rhp, chummy. diso wheels, Lucas dynamo Ligheng. 3 yres as new, epare whea, hood, side curlains, Mindscreen, Lamns, dash car's tax paid, incurance policy to Juno 9 th 1926 , 68 guincas: also a
 ROVER 8, 1922 , taxed inaured, tyres, body and cagine excellent conROVER, 1921,8 , 2 senter, dickey, Dunlops, dyaamo lighting, mat, faxed Deccmber, excollear condition 250 . 149 Jock Arenue, GidingROVER 8, 1924, chumms. parter, perfeot order, £75. Rev. Li. Llosd, ROVER, 1924 (May), de lure, 4 scater, dark blac, sell-startor, smedo-
 nover, 8 hp. ohummy, 1923 , now trres and hood, specdomoter, olock. Thas, repainted, any trial, 275 . Coleman, 48 Blackstock Rd.a 67.4 .w 468 ROVER 8, 1921, 2seater, dsnamo, spare whicel, seupholstered, new


## SECONDHAND <br> LIGHT CARS AND CYCLECARS FOR SALE (conlinued)

ROVER 8, 1921-2, 2-scator, now tyres, inxed to December, this car is in
 ROVER, 8hp, late 1922, extra lal go dynamo and batters, clectric horn ghodomoter, windscrecan cleaner, engine and gearbox pericot, bodymor
 ROVER 8, 4 seator, 1924 , really nice lot only $£ 100$ cash, or $£ 25$ domb
 ROVER 8, 1922 Na/cl, pertect condition, $\varepsilon 52$, crehanecs, deforred Rivling Oar Agency, Bollcau RJ. Winng 3265. (ORpositu North Enling
 ROVEA, 1923 , 8hp, chummy, \&75; 1922 2 seater, dxamo and wharter,




 ROVER, 1 g21, Rhp, 2 -seater and dickey, dynamm lighling sperinmeter
 ROVER 1924 A-searer. f135; 1921 Raver 8, f38: cash pavmit Iromp


 ROVER. Fedwarde ofter 13238 de luxe, 2 -ecater and dickey, sully Uon, 89 guincas. Below.
ROVER 8, 1923, clummy, fully equipped, superb condilion, 70 guincas
 670-14
 ROVER, 8hp, 1925 , 2fezter, brand new, hatrst inprove. mandel, scll
 St., Acton.

 ROVER 8, 1923 (Septembor), chummy, etarter, stdo curtains, taxed
 RoVER 8, 1923, ohummy, tax paid, the eagino has just been thoroughly overhauled and ls in perleo condilinn rad is open to any (rina or rxamina-
tion, \&75. 5 Putnes Bridge Rd. Wandsworth. Putney 2728 . ©70-891
ROVER 8, lato 1924, do luxo 2 -seater, double nickey, clock 6 pecdo-
 ROVER ${ }_{\text {Rion, }} \mathbf{1 9 2 3}$ chummy, first licenscd July. 1924 cxallent condiROVER, 1921. 2eater, dynamo, repainted grey, 2 new tyres. 670 mart 40 guincas. 68 Malden Rd., Cheam. ROVER 8, ©65, 1923, chummy, dynamo, spare whecl، taxcd. good tyras, splendid condition; exchanges, delerred Empiro Motors. 3705
Wigh Od., Ohiswick. Phono 303 . ROVER 8, 850,1922 , 2 -seater, dynamo, sparo whecl, taxed, good tyres: Fhove 303. 670-980
 ROVER, 9-20. lato 1924. 4-scater, lighting, starter and full outat, beautiful condition throughout, f125; exchanges, wasy terme etco. ar-
ranged. Oummings, 101 Fulham Rd., London, S.W.J. $670-986$ HOVER, lato 1924, 8.9hp, do luxo 2-scater with doublo dlekey, dynamo lighting, starter, spedometer, electric and bulb horns, milrior. dashlamp, mats, all-wather equipment, tyres nnd condition as new, milcago
4,000 , Iecnsed December, £95. I Fenwick St., Woolwich. 670 z26 ROVER, 8lip saloon conpe, slarting and lighting in good running order and in nice condition tronghout. an ideal allweather car ${ }_{\text {Garage, }}^{2} 2$ mins. South Ealing District Station. Ealing 2983. 670.971
ROVER 8, 589 10s.- 1924 , 4 neater in A1 condition; delerred icrms nod uxchanzcs a speciality. Sonth Eallng Garage, 2 ming. South


## SECONDHAND l.IGHT CARS AND CYCLECARS FOR SALE (continued)

ROVER, 1921 model. 8 hp 2 .sealer. diak blue er ecllent condition;
 ROVER, 1922.3 . gho. dynamo lightrg, just thorovg bly orerrhaled by

 Ca anon 1 M, Hampscad.
 Clissold 6028 .


 6628 Run

 Rover ${ }^{\text {Ren }}$ ROVER 8 , cloo. A-siater. 1925, 500 milles, painted mazoon, licenised


 SALMson. Apply to the London distributors Gorton watne and Co,


 Sニ̈L MSON 1924 , Sertember), jnst repaiteced, sped 60 top 45 second.
 SALMSON. FAlwards ollcr 1925 model, 10.15, 4daor salloon. tully



 ( 10.6 SALMSON 2 sprec. dickey. ercallont condilion, terms $88105^{\text {and }}$ and 10

 5mat 670.19


 SENECHAL, sinper sports. milcenge under 2,500 , shock sborbers, excal
 SENECHAL, bargin, 1925 (March), sports, special entinc. shock ab-
 change Paniglas, Fairselds. Farniban, Surrce.


 ner Bros., 13
SINGER 10 . 1924 do luxc mold dil dickey mans extras. Azreed, fnurced



 Ausist. nluminimm number nlatate. Loverolll instantil adijutable and ra norzer

 throughout .inhur stuart and an, Littla Portland Stion.



## SECONDHAND <br> LIGHT CARS AND CYCLECARS FOR SALE (continued).

SINGER, 1924, 2-seater and dickey, in almoat new condition. e140,

 and 12 paymente of $£ 103$ ad., with the option of $z$ epecial rebate This has lust becn repainled and orerhanled. Lamos, lid. appasita Euston Ru., N.W.1. SINGER dynamo lighting. Laxed, pertect eondition. s30, exchanges. deIerred. Faling Car Agency, Boileau Pd. Ealing 3265. Opposite North
Ealing Undergrouad.
$670-812$ SINGERS and some 60 odd others. TVerme from anetenth down; ex changes. See our display, page 15. Benmotors, $30-32$ High St., Wiands-
worth, S. W. 18 . Battersoa, 1509 . SINGER, 1923, 10hp, 4-scater, dynamo and starter, excellent condition c95, fullg cquipperl, licensed and guarantecd Exchange or hire pur-
chase. The Light Car Co., 404, 410-414 Euston Rd., London. $670-42$ SINGER. 1922 Singer, 10 hp , all-weather coupe, double dickey. sliding windown, mart appearance, chassia has just bect completely orerhauled at cost of $\mathcal{L J O}$, self-starter, dynamo hathting, clock. speedometer, etc. tax paid. leather upholsters. An opportnnity to buF a completely orri-

 SINGER, 10np, 1924, de luxe 2-sester, double dickey, all-wealber equip-
ment, ballon tyres, excclicnt condition, $£ 118$. Eagles and Co. 275 Migh Sin. Acton.
Ming SINGER coupe, $\operatorname{lnt} 1920$, 1Ohp. drnamo, sell-starter. magnificent condi-
tion, cheap: exchanges, deferred. 63 Solon Rd. Brixton. $670-\mathrm{z}$ SINGER, 2 -acater, dlckey, licensed, insured, electric lighting, any trial
£30. Dodd, $\overline{5} 4$ Fenwick Rd., Peckham Ryc. (After 7.) SINGER, 1924 . 4-scater de lnxe. mileage 3,000 exceptional conditinn
 SINGER, 1925, latest model 4-seater do luxe, onls nsed lew times, Juls. £185. Wilkins, Simpson, opposite Olympia. Iondon. $670-266$ SINGER de Iuxe, 1924. 2-scater, dickes, dynamo lizhting. starter, ex cellent conclition, tax paid. 2112 103. Wilkins, Simpson, oprosit,
Olympia, London.
$670-z 69$
SINGER, 1920-21, 2-scater, dickes. dynamo ishting seli-starter, specdometer, ncarly gew tyres. tax paid, bargain, $£ 5210 \mathrm{~s}$. Wilking,
Simpsod, opposite Olympia, London. SINGER, 2 -scater, dickes, 2 new tyrcs, spare wheel, naintwork. plating in goorl conditlon, £60; any trial Bax No. 2621. c.o. 67 Light Car and Cyclecar.'
SINGER second-hand bargains at Sewnham's.
1925 10-26hp saloon, excellent order, E225. 185
1925 10-26hp 4-seater de laxe, nice condition, choice of two, $£ 170$
1924 lohp 4 -seater de Iuxe, excentional order, $£ 140$.
1924 IOhp 4 -seater de luxe, in first-class condition. $£ 150$
Another similar to nbove, $£ 125$.
1924 10hp 2 -scater de luxe, in partieularis gou condition, 2120.
192510 hp 2 -reater de luxe, painted blue, good urder, 595
Full list of these and other second-hand bargalns sent on request.

| Newnham Motor Co. 245-5 Mammersmilh Ru.. W.6. Phone, Riversida |
| :--- |
| $\begin{array}{l}670-35\end{array}$ |
| 161 . |

SINGER. Edwards offer 1924 10hp 4 scater, fulls equipped, balloon tyres, excellent condition, 117 gns. Below.
SINGER, 1924. 10hp de luxe 2 -seater and dickey, fulls cquipped,
 SINGER, ${ }^{2-s c a t e r, ~ l a t e ~ 1924, ~ b a l l a n n s, ~ p n e u m a t i c ~ m p h o l s t e r y, ~ t a r e d, ~ p e r-~}$
fect. \&lis. London Auto Sales. Pembroke St., King's Crose. $670-985$ SINGER 19254 spater de inxe, painted maroon, new in July, absolutely SINGER 1925 4-बeater, painted blue. demonstration car, absolutely as
Dew, 200 guineas. H. W. Miller, Neno Quay. Wisbech $670-\mathrm{s} 4$ SINGER de luxc, 1924. 10hp, 4-seater, all-wcather, new condition, mel eqnipped. tax for sear, insured May. £145. 41 Muller Are., Bishopaton. SINGER, 1924, model dre luxe 4-seater, exchange 1924 .Jowett 2-seater scll £110. Newahams' Showrooms, Heath Rd. 'Twickenham, Lonton SINCER, 4-seater, de luxe, 1923-4 madel. 85 gnineas; car kept with prido by carcful owner and in besutirnl robuilion, allweather cquif genuine in crery respect, rare bargain. Owner's agents, Majpards, 368 Iornseg Rd. Iondon, Ni. 19 (J294 Mountricw). who call ncrotiate
exchange if desircd. SINGER 1924, IOhp, do luxe 4 -seater, $f 125$ : also 1924 2-scater (scater, e95; deferred payments. Bar letts. 93 Gt. Portand St.
SINGER, 1925 , 10hp, do fuxe, 4 -seater, balloon tyres, etc., bargain SINGER, 1924, 10hp, 2-scater de luxe, dynamo, starter, dickey, as new Bolton: also 246-252 Dearsinte, Manchester. $\quad 670.810$ SINGERS. F.O.C.F., Lid., hare several 4 -seater singars, excellent car:

SINGER, 1925, May, 1Obp. de luxe 4seater, ballont tyres i3 new re inforced. taned, inaured, excellent condition, $£ 185$, owner returnin
India. Phillips, 12 Treborir RU., Earls Court.
$670 * 957$

## SECONDHAND LIGHT CARS AND CYCLECARS FOR SALE

## (continued).



 STANDARD, 1924, 2 -seater, rors nice condition, $\mathfrak{f 1 5 5}$ canh, or $\mathcal{E} 38$


STANDARD, J920-1, 2 ecoater, starting and lighting, renainted tared,

STANDARD, 1925, 4 -seater, $£ 255$ mociel, almost ner, taxed, $£ 190$. Beiow.
STANDARD, 1924, $11.4 \mathrm{hp}, 2$-seator, balloon tyres, perfect condition.
 STANDARDS 2 bargains, both open to A.A. or R.A.C. ©xmmination. 1924 (inte) 11.4 -scater nil-went torf. leather upholsterc, taxed Decem.
 1921, delisered 1922 11.6. 2 -scater din luse dumble dicker, nll. wen ther


 TANDARD, 1924. 11.4hp, all wealher 4 -seater. $\mathcal{E 1 5 0}$ : folls fequipped
 STANDARD, 1924, 4 -seater, $11,4 \mathrm{Hp}$, excellent condition throurhout, eass payments. Wilkins, Simpson, opipsito Olympla, London: $670-267$ STANDARD, 1924, 11.4 kp . Z-geater, mileare under 8,000, extras, insured, excellent condition, 5140 or oller. Intehinson, 13 Sutherlind STANDARD 19239.5 4-eatef, fully equipped, all-weathct rear screen, hood enrelope, new tyres taxed year, excellent condition throughout, bar-
gain, 590 . $3 G$ Fermo Park Ré, Stroud Green, N.4. STANDARD. Safety first! Ernost Grimaldi, Lad., offer lale 192411.4 kp Standard 2 seater. in rery good condition, year's tax paid, fl45. Emest
Grimald, Lid., 87-88 Gt. Portland St., W. Museum 3931. 670-920 STANDARD, 2-sentcr, dynamo lighting, 5 lamps, spendometer, spare
 STANDARD, 1924-25, 4-senter, 11 hp . complete 10 makers' specification, aluminium bonnet, rers small mileage and in excellent condition throllphout, equal to new, Ruaranteed, f140; exchange cheaper car or motor
cyrle. 7 Riverdalo Terrace, Petersham Rd, Richmond. $670-\$ 523$ STANDARD, $9.5 \mathrm{hp}, 2$-seater lonf wheclbase, 5810 s , and 10 pargents of £8 10s, or cash f85, 6628 . STANDARD, 9.5, late 1914, storod $41 / 2$ years, A.C. body, low wheclbase, Eunken dickey, C.A.V. dynamo lighting, 5 wheels, tyres sound, clock,

 STONELEIGH 1924 . 9 hp , chummy tartor, small milrage, profect

SWIFT. Moores Presto, Croydon agenis Swift cars. Promptest delivery new modela with efficient ecrrice to ollow: large stock sccond hand cars 10 select from. Delerred payments and exchanges arranged. North End,
Zzoydon. Phone 2624.
SWIFT, f39; exchances. deferred pasments. 1915 Switt, 2 scater, dickey, 10 hp . dgnamo lighting, sparo whecl. good appearance, eplrndid fondition. Scabridge. 35 IIansler Rd. East Dulwich. Sydeahan 24.52,
SWIFT, 1924. 10hn, 2-seater, lax pald, eceral extras, nice order, si20. Newntiam Motor Co., 243-5 IIammersmith Rd., W.6. Thone, SWIFT, 1922, 10hp, Jighling, starting, one owner, excellent order, tnx Pad, repainted, any examination, 885 : deferred terms. Parker, Slation
Rd., St. Ires, IIunts.
$670-964$
TALBOTS and Eome 60 odd others. Terms from onctenth down; exchanges. Seo our display, page 15. Benmotors, 30-32 Ifigh Sl., Wands-
worth. S.w. 18 . Batersea 1509 .
TALBOT, 8-18, 1923. first licence January, 1924, periect condlion,
 TALBOT 1923 8-18 2-sentor, dickey, laxed, in exceplional condition,
f117 10 s. 131 ack and Finch, Lid. 222 Gt. Portland St., W.1. Phone,

TALBOT.DARRACQ, 1923,8 8.18, coupe, sunk dickey, eleciric starter,

TAMPLIN, April, 1925, tourer, just received, small mileage, owner Euna abroad: best offer. Tamplin Motors, 68 Malden R(l., Cheam, $670-x 526$
Surrey. Sution 21. T.日., TOhp, 1921, 3 .wheeler, spare whecl, completely cquippd, inx ton. Phone, hensington 8558. т.B., 2923 , 8.10 hp , water-cooled J.A.P.: dynamn lightine, all-weather
 hampton.

## SECONDHAND <br> LIGHT CARS AND CYCLECARS FOR SALE (continucd)

wolseley ears. Moores Presto, Croydon agents. Promplost delivery new modele with efficient bervice to follow: large stock sccondenand cars
to select from. Defercd payments and exchanges aringed. North End
zzz- 500 Croydon. 'Phono 2624.
 siarter, Judl cq
jud., Bradord.
Whlseley, f169, 1925, 11-22hn, 4 -seater, licenscd, mew in Junc, 2.500 miles, as mew. A. W Chapinan Engincer, Ramelagh Girdens,
IIurlingham, S.W.6. Phone, Putnes 2072 . $670-852$ Woicelev, f140, 1924, $10 \operatorname{lnp} 2$-seater, laxed, extras, excentional condition. AThur Stuar WOLSELEY 2 -scater, only 885 cash , or C 215 s . down ancl 12 payments

 Eito Hac St. Slation, Wal
$\mathbf{5} 87$ Euston Rd., N.W 1.
$670-826$
 Motors, 49 Green Lancs, Newington Green, N. 16 . Clissold 6628. 670.295 WOLSELEYS and somo 60 odd others. Terms from one-lenth donn; cxchanges. So our displas, pagc 15. Bonmotors,
worth, S.W, 18. Ballersea 1509. WOLSELEY 1925 de loxe 4-seater, dynamo and starter, fully nquipped, licenoed and guarniesd, £125; rxchanges or hire-purchasc. Thri Light
Car Co., 404, 410-414 Euston Rd., London. WOLSELEY, 1922, DL. model, $11 h p, 2$ ecater, $£ 30$ overhaul by makers list month, open Thirsk Ru., Mitcham. Smed 40 670.z4
WOLSELEY. Edmards ofler 1924, 11hp, 2-seater and dickey, fully equipped, excellent condition, 125 graineas. Below.

 woLSELEY, lato 1924, 11 hp, 2 -scater with double dickes seat, light-
 WOLSELEY, s110, $192 \overline{5} 10 \mathrm{hp} 2$ scater do luxe, dickes, full equipment, tax, beautiful condilion throughout. Vivian, $3 \overline{3}$ Spenser Si. Victeria
St., SW. Vic. 8677 . WOLSELEY 10, $1922-23,2$-seater, elickey, de luxe model. slarler and
lighling, daxed year, exceptional condition throughout. f98. Jelow. WOLSELEY 10, $192 \overline{3}$ (latn), do luxo model, 2-srater, fickey, startor
and lighting, sidg curlains, taxed ycar, fully equipped, first-class order and lighting, sidg curlains,
throughont, $£ 110$, Below,
WQLSELEY 10,1924 (late), 2-scater, dickef, gtartor and lighting, taxed
 WOLSELEY-STELLITE, 17 Enineas, 1914 , 2-seater, diekes, any triali
cxchangef. $\overline{3} 25$ High Rd., Chiswiclr. 'Phono 303 . $670-976$ WOLSEEEY, \&25 will see you on the road with nexs $11-221$ p $£ 235$ model, tax and insuranco pand for ono year. Belore buging a second Motor Co., 69 Gt. Queen St., Kingsway, W.C. 2. IIolborn 5972. 670.80

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nall
25 Uigh SL., Fulham, S.W.6.
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## (conlinued).

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