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## CITROEN $A \mathbb{L} L=S T \mathbb{E} \mathbb{E} L$ 4 DOOR SALOON




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Assured Safety under all conditions by the perfectly designed Four-Wheel Brakes. Low centre of gravity and remarkable road-holding qualities.
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THE Art of Discrimination is a fine thing, because it allows you to differentiate between the good, the mediocre and the bad. No motor car demands a ready sale much less an increase in sales, unless it can secure the complete approval of the discriminating motorist.

Clyno Cars are so obviously the choice of the discriminating motorist, that their sales have increased in probably the most phenomenal manner ever recorded in the whole history of the industry.

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". . . as a car for the open road, I can confidently recommend the $13 \mathrm{~h} . \mathrm{p}$. Clyno to anybody requiring a touring car able to climbs any average hill and to pur up a high average speed over any road. A more robust, roomy, smart-looking tourer, capable of covering upwards of 35 miles on one gallon of petrol, it would be difficult to find anywhere at a lower figure than that quoted for the four seater Clyno-\&260."

## DAILY GRAPHIC.

the Car has a particularly good road performance, as I discovered on a recent test. The engine is very smooth running. Hill climbing on top gear is particularly good, and on the lower gears the car will easily climb any hill on which the wheels can obrain a grip. Three speeds and a reverse are provided, and the change is the easiest I have found on any car. A four-wheel braking system of exclusive Clyno design is fitted, these brakes being very smooth and powerful in their action.'

## MOTOR NEWS (IRELAND)

"... no wonder motoring has become so popular when such models are available at less than many motor cycle combinations even of the present day."


In delightul New Zealand surrounding.

## FINANCIAL STANDARD.

". . . the writer has a good all-round knowledge of current car values, and for the family man-the average owner-driver-his advice is to plump for the $13 \mathrm{~h} . \mathrm{p} .4$-Seater Tourer, listed at $£ 260$.'



THHE THE LADY DRIVER
necessary factor simply must be dealt with or the risk of accidents will be largely increased.

Because of our uncertain climate, the lady driver will be obliged, very soon, to raise the hood and fit the side screens. This should be easy, provided adequate attention has been given to the matter. But how many times have we seen ladies trying desperately but vainly, to complete this comparatively simple operation.

As we have constantly pointed out, Clyno Cars are amongst the very few that are designed by experts who know the difficulties that confront the lady driver.
The engine of every Clyno Car is efficient and powerful. Gear change is delightfully easy, and the change speed lever is placed in is natural position ready for instant
operation with the right hand. The four wheel brakes are powerful, and can be applied with the minimum amount of effort.

Clyno Car steering is the admiration of experts, because it is so phenomenally light.


You have only to sit in a Clyno Car to realise the extraordinary comforr provided for everybody.

We venture to suggest that there is no better car for the lady driver at present being offered to the public. And this is the reason why you notice so many ladies driving Clyno Cars in comfort and with efficiency.
When a man contemplates the purchase of a car he should be very careful that his wife can also drive the car without being subjected to unnecessary fatigue.


THIE


By P. B. A. M.

FOR those who wish to combine real tranquillity with a desire to discover the beauties of Cornwall and Devonshire, no more delightful locality can be imagined than the quaint fishing town of Looe.
To expect the usual seaside "attractions" means disappointment. All that Looe can offer you in this respect is the "smallest cinema in England." There is, however, good bathing to be obtained, excellent sea fishing, and a certain amount of motor boating. One is told, and can very well believe it by walking through the streets of Looe, that the town itself has changed but little since Rowlandson sketched it almost a hundred ycars ago. It is so typically Cornish in its delightfully haphazard style of building; the strects do not appear to follow any preconceived plan, while looking at Looe from the hills surrounding the town one is presented with a bird's eye view which is both attractive and extremely picturesque. Because fishing as well as a dwindling amount of coastal traffic provides Looe with its chief source of income, the centre of interest is naturally the harbour, which consists of stone wharves built on the banks of the river. A large portion of this harbour is a legacy from ancient, and in the case of Looe, more strenuous times. Twenty ships were sent from Looe to help Edward III. at the siege of Calais, while during the French war no less than three enemy ships were brought into Looe as "prizes." It is also interesting to remember that until 80 years ago Looe returned no less than four members to Parliament, two for exch portion of the town.
To the motorist who wants to explore the delightful highways in this area, and especially the less known beaury spots, Looe offers unusual opportunities as a touring centre.
The main roads are excellent, and, speaking generally, second and third class roads are

quite good, although in regard to the latter, the small car owner must be prepared for plenty of hills, and roads which are not only narrow, but wind about in the most disconcerting manner.
To become really conversant with this portion of Cornwall and Devonshire, it is essential to have a first class map that shows roads other than main roads.
Even a casual glance at a good map will show you a perfect host of charming and interesting places well worth visiting. Doubtless the following places which are all within, at the most, a day's tour from Looe, will help the rcader to form his own conclusions.
Westward from looe is Polperro, once a favourite resort of smugglers, but now beloved by the artist. Polperro with its narrow streets and old world houses wedged amongst the cliffs is a sheer delight.
From Polperro one can visit Fowey the "Troy Town" so delightfully described by Quiller Couch. Fowey is the centre of the china clay industry, and ships from the four corners of the earth congregate in the wide harbour.
Continuing westward youcome to Pentewan and Mevagissey, which boasts one of the lowest death rates in the country, Portloe, St. Mawes, Falmouth, and so towards the Lizard and its magnificent coastal scenery to Marazion, with the perfectly wonderful St. Michael's Mount as its chief attraction. Penzance and even Land's End are all within the limit of a day's tour.
The writer would, however, lay stress on certain characteristics which must be contained in the car you drive. Good brakes, preferably of the four wheel type are essential, so is a powerful engine and quick acceleration. You will be called on to negotiate steep hills that in many instances climbsteadily for miles. An easy gear change, and a first class second gear performance is therefore most important.

The clutch is of the "inverted" cone type, lined with a special fabric giving good engagement and long life, with a minimum of attention. The application of pressure to the clutch pedal disengages the clutch faces through the medium of a forked lever on the pedal shaft, which operates against a ball-bearing thrust race on the end of the clutch shaft. This operation moves the clutch shaft forward a very short distance, and to prevent strain coming on the universal joints the rear end of the shaft is a sliding fit on the splined shaft projecting from the gear box, being lubricated through an oilway from the latter. Once the clutch face is bedded down very little attention is required with the exception of an occasional charge of lubricant injected into the bearing, and on the face of the thrust bearing forked lerer and pedal shaft bearings. The ball thrust bearing is adjustable for wear, a serrated lock-nut being provided which, on removal of the spring

steel locking ring, may be screwed up until only sufficient play is left to ensure free running. Care must be raken that the projecting tongue on the lock ring engages in a hole in the nut and in the screwed centre piece; also that the ring lies embedded in the annular groove. When correctly adjusted there should be $1_{16}$ " gap between the operating fork and the ball thrust race when the pedal is right back against the stop. As the clutch lining beds down it will be necessary to make an occasional adjustment to the stop to ensure that the gap has not been closed up. The pedal stop is an adjustable screw with lock-nut incorporated in the near side pedal shaft bracket under the charsis frame, and by releasing the locknut and screwing in or out the gap can be varied at will. A similar stop is provided for the brake pedal, but this should require no attention, as it is correctly adjusted before leaving the factory.


A REMINISCENCE OF CLYNO EFFICIENCY
An official photograph taken during the late war on the British Western Front, some Motor Machine Gunners with their souvenirs. Thesc Clyno Combinations carried their heavy loads with amazing efficiency.

## HOLIDAY INFORMATION BUREAU

I$T$ is perfectly obvious to everybody that only by unremitting care and the most stringent attention to detail, has it been possible to bring Clyno Cars to their present state of high efficiency; an efficiency abundantly proved by the consequent and amazingly great demand for these cars.
But we do not conceive, however, that the manufacture and sale of cars autoniatically absolves us from further interest in the cars themselves. Quite the contrary. We want everyone who has purchased a Clyno Car to be assured that we are always profoundly interested in the behaviour of that particular car.
In order, therefore, that we may try to prove our more than ordinary interes', we have decided to form a Holiday Information Bureau, where free advice in regard to touring in this country can be obtained upon written request.
We do not want anybody to imagine that this Holiday Information Bureau consists of a crowd of highly paid young men and maidens housed in a suite of palatial offices.
The information we shall supply will be obtained from our present staff who are all thoroughly enthusiastic Clyno Car users. These people are not blessed with a surfeit of wealth, and such being the case, when they tour, they keep an eagle eye upon expenditure. They want, and of necessity must have, value for money, whether it be for hotel accommodation, food, garage facilities or the hundred and one items connected with touring in this land of high prices, which in many instances offers little in return.
To the man or woman of modest means, who contemplates a holiday tour, first hand information of this description should prove extremely valuable.
When asking for information please quote the chassis and engine numbers of your Clyno Car, and address your letter to:-
HOLIDAY INFORMATION BUREAU, PUBLICITY DEPARTMENT, CLYNO ENGINEERING CO. (1922) LTD., WOLVERHAMPTON.

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GREATER LONDON. MIDDLESEX. ESSEX. HERTS. KENT. SURREY. SUSSEX. BERKS. BUCKs. BEDS. HANTS.

Wrile for details of this History making Car.

## 

Illill

ITE join forces with the CWYNNE and are proud to acknowledge our Massociation with this fine small car. The awards secured in every trial of note are convinding testimony to its all-round efficiency. Are you a CWYNNE owner-then bring your present car to us for acceptance in part exchange-, he fullest value will be given. If you have another make of car, we will accept that similarly in part exchange. Deferred terme can be arranged to meet your convenience.
We have a varied stock of second-hand and new cars in the following classes. viz. AUSTIN, CLYNO, CROUCH, CALTHORPE. BAYLISSTHOMAS. RHODE, etc., and we ask you to visit or write us before you buy your next car.
Every sccond-hand car we sell is open to A.A. or R.A.C. examination. Buy British Cars-Ycu may have to pay a little more, but you get a lot more dependability for the little more you pay.

## Mubes

144-154-6, Great L O N D O N
Gold Cup Winner-irrespective of class!


# "Ten Months' Hard Driving on very Bad Roads-Tool Bag opened once" 

WEextract the above from a letter received from Major James Gilburn of the Engineers' Club, whose only trouble in ten months was a stuck contact breaker-the work of a moment.
He also says: " ${ }^{\text {For the size of its engine, }}$ Iconsider it puts up a perfectly amazing performance, and as a hill climber, it is unbeatable. incermediate gear. ${ }_{25}$ is years' driuink of all sarts-motorcycles up to a S-ton lorry-but never before felt sufficient enthusiasm to writed testimony on my complete sallsfaction.' This is a representative specimen of letters we arepreseniative specimen of lhe Singer.

## 10:26 h.p. SINGER de

Luxe Four-
Seater.
$\mathcal{L} 225$
OTHER MODELS.
10/26 h.p.deLuxe
Two-Seater .. $£ 225$
10/26 h.p. Saloon £280

For sheeer value it is unbeatable, and its equipment is remarkible.

# SOLE LONDON DISTRIBUTORS : <br> H. B. COOK, LTD., 

Real leather upholstery, 12 volt elecirical equipment, reinforced Duniop balloons, sliding lupgage grid, pneumatic leather covered upholstery, nutomatic screen wiper-everything in fact "hich you could possibly want or need on a car.
We would like to arrange a tria: run on any Singer Model, or send you a catalogue by return of post.
Generous allowance for your old car and convenient financlaltermsiarranged in strictest confidence.
Over 50 New Cars in stock to choose rom.


## TWO FIRSTS and a SECOND at the Brooklands Spring Meeting of the J.C.C.



HARD on the heels of the Austin Seven's "London-Land's End" achievement of THREE GOLD and EIGHT SILVER MEDALS comes the news of further successes at the J.C.C. Spring Meeting, where, in addition to TWO FIRSTS, the "Seven" gained second place in the 50 Miles Handicap (for cars up to 1,500 c.c.) averaging nearly 79 m.p.h.! Such a performance, against cars of so much greater engine capacity, shows how vastly superior is the Austin Seven to all others of its own proportions.

## PRICE OF STANDARD TOURER <br> At Works <br> £149

The AUSTIN MOTOR CO. LTD. LONGBRIDGE, BIRMINGHAM LONDON SHOWROOMS: 479-483, OXFORD STREET, W. 1 (ncar Marble Arch)


EX-M.P.'s DASH ACROSS
Mr. Frank Gray, ex-M.P. for Oxford City, and Mr. John Sawyer are attempting a rapid AFRICA. continue the journey. They were the first to come by road from Lagos.


British Supremacy.
In a complete list of international speed records issued by the Motoreyele Club of France it is of interest to note that in the car classes the mnjority of the records Lave fallen to British cars bandled by Lritish drivers.

The Budget.
It will be a relief to light ear owners to know that they will not be called mpon to pay muy additional tax under the new Budget. We refer to Mr. Churchill's proposals as they affe it motorists elsewhere in this issuc, under "Topies of the Day" and "Motorin? Matters in Parliament.'

This Week.
An article which will nupenl to every motorist who takes an interest in his car conmences in this issue; it is entitted "High and Lnw-speed Jingines," and explains the differences in their respective designs. Thie exclusive deseription of a new two-stroke-engined light enr, to sell at fSS, is another feature of note. Road tests of three ents wre described and recent sporting events reported in detnil.
No. 701. Vol. XXViI.

ON OTHER PAGES

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Cyclecar Comments
    Cyclecar Co
    High and Low-speed Engines
    Rich Mixture
    Topics of the Day -
    Competition Pictures
    Road Tests of 1926 Models
    The 10-23 h.p. Tsibot
        The }7\textrm{b}.\textrm{p}.\mathrm{ Austin Ssioon
        The 10 h.p. Berliet
        Competition Reports
        Tramwsys Mast Continue
        Our Readers' Opinions
        Ideas for Owners
        Clab Items
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LIGHTENG-UP TMES (Rear Lampa) for Saturday, May Ist.
London .. 8.51 kidinburgh . 9.20 Newcsstie .. 9.9 Eiverpool .. 9.12
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## Foreign Traffic Rules.

'ro meet the needs of its members when touring abroad the R.A.C. has enmpiled a list showing the rules of the read in 24 foreign countries. The list is issued in leaflet form and is available to members and associate members upon application to the touring department of the Club.

The "London-Edinburgh."
The entry list for the M.C.C.'s London-Edinburgh run at Whitsun closes on May Sth. Over 100 entrips have already been received and of these 47 are cars.

## World's Fastest Car.

On April 27 th Mr. J. G. Parry Thomas, driving his 400 h.p. racer "Babs," on Pendine Sands, broke all previous world's specd records by doing a mile at a sueed of $172.3 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. Dis mean speed for the flying mile was 168 m.p.lr. and for the flying kilometre 169 m.n.h.

## Next Week.

The second instalment of the article, " High and Low-speed Engines," which starts in this issue, will be published next week. $\Delta$ futher technicall article will be "Theories of Valve Timing." which raises some very interesting points in connection with overlap and so forth. An article likely to make a special appeal to those interested in speed work will describe a small French enr now being marketed with a super charger as part of its standard equipment.

## Costly Luxury.

According to a well-known motor engineer in the UIS.S.A.. electrienl apparatus calculated to add to the comfort and convenience of the occupants accounts for 5 per cent. of the weight and 10 per eent. of the selling price of a five-senter American saloon.

## The Entrenchments.

Many roads in Lonclon and the suburis ance still in the hands of various contractors who are busy laying conriuta for the Post Oftice underground telephone and tolegraph system. That these works should cause a great denl of traftic congestion is cnly to be expected.

## S.M.S., Ltd.

We are asked to emplinsize the fact that S.M.S., JAd., the sole coneessionnaires for the United Kingdom and British Dominions of Sulmson cars, have removed from Motcomb Street-the address given in a recent artiele in this journal on the Salmson-to Church Wharf, Chiswick Mall, London, W. 4.

## Skegness Motor Races.

Skegness has decidel to hold its popular motor races on the foreshore in spite of the trade ban. The mecting will take place on Monday nud Tuesslay, Mar B1st and June 1st. Mr. F. V'. Ebblewhite has been appointed as handirapper and timekeeper and Mr. A. S. Reynolds will act as starter. The secretary for the mecting is Councillor IR. J. F. Ditton, Council Offices, Skegness, from whom intending competitors can obtain further details.

## M.C.C. Car Members.

In a letter sent to its members by the Motor Cyeling Club, Mr. L. A. Baddeley. the chairman. points out that the decision of the club not to sffiliate to the A.C.U. will not affect car members, provided that tle Royal Automobile Club dons not vary the altitude it has adopted heretofore. Owners of threewheelers. bowever, if they continue to take part in M.C.C. competitions, run the risk of being bauned from taking part in competitions promoted by clubs affilinted to the Linion.


LIGHT CAR PROVERBS.-No. 18.
Does this plcture suggest to you an old or original proverb? If so, write il on apcstcard addressed to the Editor and marked Proverb Nc. 18 in the top left-hand corner. A prize of a guinea is offered for the most appropriate proverb submitted If two or more readers submit the same winning proverb, the prize will go to the sender of the first to be judged. Only one solution may be submilted by individual competitors. No judging will te done before or after next Tuesday. For the winner's name and address see next week's "Around the Trade."

## J.C.C. and Competition Ban.

The following resolution was proposed, seconded and unanimously earried at a recent council meeting of the Junior Car Club:-" That this Council deplores the action of the S.M.M. and T. with regard to competitions and regards the same as contrary to the interest of motorists generally and of the small car user especially."

International Road Congress.
All nations have been invited by the Italian Ministry of Foreign $\Lambda$ flairs to participate in the Irifth International Foad Congress and Lxhibition which will be inaugurated at Milan on September Gth. The Congress is under tho patronnge of M.M. the King of Italy and Signor Mussolini is chairman of the Committee of Honour.


## IMPROVED BODY CONSTRUCTION.

 It is claimed that the all-steel coachwork of the new $11.4 \mathrm{~b} . \mathrm{p}$. Citroen offers many advantages in addition to that of increased safety.Blackpool Motor Races.
The Blackpool Jubilec Week celebratinus, to he held from Saturdny, June 12th, to Saturday, June 10th, will include motor speed trials along Quecn's Urive, North Shore.

Famous Race Driver Killed. Connt Guilio Masetti who, it will be remembered, drove a Darract in last year's 200 - Milo latace at Ihrooklands, was billeg on Sunday, April 25th, when driving in the Jrarga and Florio Cup race in Sicily. His car overturned in the first lap.


Count G. Masetti, who was killed on April 25th due to his Delage car overturning in the Targa Florio.

The Surbiton Motor Club.
The provisional awneds for the ear chasses in tho Grand Cup Trial hold by the surbiton Motor Club are as follow: Sopwith Clallenge Cup: II. G. Harmsworth (11 h.p. Clyno). Silver Cups: J. P. Dingle (12 h.p. Len-l'rancis), IR. "Fwelvetrens ( 10 h.p. Amilear), I'. W. White (12 h.p. Lagoula), L. F. Peaty (11 h.p. Ceirano). Bronze Medals: s. E. Whatson ( 11 h.p. Surrey), M. N. Fidwards (12 h.p. Lagonda).

## Our Front Cover.

One of the latest 10 h.p. Berliet snloons figures in tre striking photokraph which is reproduced on our front cover this week.

## The Targa Florio.

In the 1,100 c.c. class of the Sicilian classic, the Targa Florio, whicla is run off over one of the most gruelling conurses in the world, a standard morlel Grand


TRAFALGAR SQUARE
TRAFFIC CONTROL. The gyratory system of traffic control came into force in Trafalgar Square, London, on April 26th. By its ado، ،tion congestion in the adjacent streets congestion in the a

## Whitsun Special Number ${ }^{\text {The }}$ Light Gar $\begin{aligned} & \text { On Sale. } \\ & \text { Friday. }\end{aligned}$ ${ }^{N}$ Ceciecar $\begin{aligned} & \text { Friday. } \\ & \text { May } 14 \text { th. }\end{aligned}$

order your copy in advance.

## Scottish Six Days' Permit.

A permit has been grauted by the R.S.A.C. for tho Scottish Six Days' Trial under the closed competition rules and restricted to cars with engines of nol more than two litres. The event will take place in June and July.


TRANSPORT CONTRASTS.

The native bullock wagon and the rickshaw form a striking contrast with the A.C. in which Col. F. S. Brereton crossed India recently.

## Royal Patronage.

His Majesty the King las been graciously pleased to renew his patronage of the Iuternational Motor Exhibition, Olympia, organized by the Society of Motor Manufncturers and Traders, I,tl., which will be held from October 21 st to 30 th .

## Electrical Service Stations.

Joseple Lucas, Ltd., combining the C.A.V. and Rotax concerns, have begun arrancerients for a chain of service stations in Great Britain and abroad. Owners of cars fitted with Lucas, C.A.V. or Rotax equipment can make use of any of the joint service depots.

Prix Salmson proved to be the winner. This ear is similar to the type which can be purchased in this country for £2S5. It is rumoured that a Salmson gained second place, but this has yet to be confirmed.

## The Institute of Metals.

At a general mectina of the Institute, to be held on Weduesday, May 19th, at S p.m., Prof. H. C. H. Carpenter, F.IT.S., will lecture on "Single metallic crystals and their properties." The mecting will take place at the Institution of Mechanical Engineers, Storey's Gate, Loudon, S.W.1.

## Special Grand Prix Salmsons.

The Grand Prix Salmson is now obtainable at $\mathrm{f}: \mathrm{i} 2 \bar{y}$ with a three-bearing crankshaft and four-speed gearbox. This model does not replace the standiard 土 $^{2} 8$ Grand Prix model. but is a special production of the Salmson racing department proluced primarily for speedmen. We feel sure that this innovation will make a particular appeal to those of our readers who are enthusinsts for this type of car.

## For Recording Expenses.

"The Motorist's Note Book." published by 'T. Werner Laurie, Ltd., 30. New Bridge Strect, London, E.C.4, is intended to be carried in the door nocket of a car so as to be at hand for jotting down itens of expenditure "on the spot." Forty pages are tabulated for this purpose and other seetious are arranged for recording mileages, analysing expenses, and making notes about hotels, garages, routes. tours, oiling dates and accessories. At the end of the book are pages dealing with legal points. car taxes, sunset times, Ministry of Transport route numbers, motor index marks and suggestions for picnic menus. In a plain cloth binding it costs 3 s . Gd., but the special edition, having a heavier binding, a button fastener, a pencil and lieence poeket, sells for 5 s.


FOLLOIVING my recent remarks on very old cyelecars, a reader has sent me a description of au Eagle three-wheeler which was built in 190:3. This exclecar had a single-cylinder De Dion engiue, and the transmission was by silent clains, two speeds being obtained by friction clutches of the old $P$. and M. type.

An interesting feature was the position of the engine, which was mounted forward of the front axle - n position which at the present day is only to be found on the Morgan. As my correspondent poiuts out, with a single-cylinder engine mounted in this way all-chain drive may be employed, whereas the drive from a twin, which on account of the amount of space it occupies has to be placed across the chassis, has to be taken by a shaft.

I have received a letter from Mr. E. P. Yaxman, who has figured in many important trials as the driver of G.N. and Frazer-Nash cars, describing a method which he has employed with great success for lubricating the driving chains of a G.N. An oil tank and hand pump of the same type as those used on the G.N. for supplying the engine with oil have been fitted to the running board in a position within easy reach of the driver's hand. A pipe leads from the tank to the centre of a large copper pipe of $3-\mathrm{in}$. bore placed across the chassis, above and slightly behind the bevel cross-shaft.

From this "crosspipe." by means of Tr-pieces, a number of small enpper tubes have been led to the chains and the sprocket bushes. The pipes to the latter are so placed that when a gear is engaged the sliding dog receives the quota of oil which would otherwise have been fed to the sprocket bush. In this way all the moving parts of the tinal drive are kent well lubricated.
The dilliculty of obtaining an equal supply of oil from each pipe has heen carefully considered and B22
overcome by letting the small tubes into the large cross-pipe in varying amounts, the tubes nearer the centre being let in farther than those at the euds.

Ar. Paxman has found that one pumpful of oil is suflicient to keep the chains clean and well lubricated for 50 miles' rumning, and he informs me that since litting this device he has not had to adjust the chains so often as was necessary previously.

He suggests that the system may be simplified be using the standard oil tank and fitting a two-way tap in the supply pipe so that the oil may be diverted either to the engine or to the chains at will.

I remember how, during the first week that I drove a Morgan, I was obsessed somewhat with a feeling of disappointment owing to the heaviness of the steering, and it was not until I had become well acquainted with the machine that I was able to handle it is such a manner that I did not get sore hands and aching shoulder blades when tackling traflic and busy centres.

At the begimning of this rear I had my present Aero model equipped with a reduction gear in the steering and at the same time with a foot accelerator, the latter being necessary owing to the extra movement of the steering wheel upon which the throttle levers are mounted. Having had opportunities since of running the Morgan under all conditions of roads and at all speeds, I can now thoroughly recommend other Morgan owners to have this conversion made. My only doubt existed as to its controllability at speed, but after a really good "blind" I appreciated the steadiness, which is most marked. As a matter of fact, proof positive of its dead sureness can be gauged from the fact that similar stecring gear was used by Mr. H. Beart when he established a record speed of over $100 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. in a Morgan at Brooklands last year.

The steering, although not finger light, is very nearly so, and makes handling the car in tratlic far more pleasant than it was meviously. The actual reduction amomnts to four to one.

With the foot accelerator I am most phased, and feal far more at home driving with this control than with the hand lever.

Particultrly dues one appreciate it in traflic when frequent gear changes have to be made, and when one can indulge in double clutching, so facilitating neat changes. This is diflicult in the ordinary way, becaluse the gear lever and hand throttle control are both on the righthand side, and camnot easily be operated at the same time.

The conversion was carried out by II. Beart and Co., Litd., of London Road, Kingston, who specialize in this type of work. The gearingdown of the steering is done by the use of a Ford epicyclic reduction gear fitted to the lop of the column, which is cut and slotted to receive the case which houses the internaltoothed ring. Meshing with this are three pivions mounted on a triangulated plate secured to the end of the column itself, the lower end of which carries a forged-steel drop arm slightly longer than is the standard fitting; a pinion on the end of a short shaft on the steering wheel mesties with the three-planet pinions, and the whole assembly is held in position by a cover plate.

In making the alteration the position of the steering wheel can be altered to suit the driver if he so desires. The fitting of the pedal accelerator, which, by the way, is a Bowden product, does not interfere with the other pedals, and is interconnected with the hand control so that the throttle can be operated aither by hand or by foot. The whole job, incluyling filting, sosts only $£ 3$ 1is. for a new Morgn: and f. 8 s . in the case of a used mathine.

## REMARKABLE NEW £88 CAR.

EXCLUSIVE DETAHS OF THE ENGINE, CLUTCH, GEARBOX


Which is to be known as the P.E.C., a vertical twowhinder water-cooled two-stroke engine is used, and this undoubtedly is a great sten forward in the design of a cheap light car, the essentials of which must be simplicity and efficiency.
The general layout of the r.E.C. is vers interesting. The engine, clutch and gearbox form a unit situater at the rear. This unit is carried in a triangular frame, of which the back axle is the base. The apex of the triangle is carried by a large ball joint, the housing of which is secured rigidly to a cross-member. As the engine itself is slung well forward towards the apex.


The photos show an off-side view of the P.E.C. which is of conventional appearance although the engine is at the back, and a partsectioned view of the engine, gearbox and final bevel drive casing. The axle shaft has been removed. No differential is employed.

WE are able to give exclusive details of the l.E.C. light ear, the successful accomplishment of an endeavour to place a really practical light car on the british market at under f100. Actually, the P.E.C., with limited equipment, is now selling in this country at ESS . but it is hoped in the near future to (aluip it more liberally-with electric lighting, for in-stance-and even then io keep the price under $£ 100$.
The P.B.C. has familiar lines, and those who have followerl French light car progress will observe that the (ar hears a striking resemblance to the Benjamin; in fact, basically it is the latest Benjamin which, thanks to the enterprise of the lattern Makers (Engineering) Co., Ltd., Shrewslbury Road, Willesden, London, N.W.10, is being imported, modified and improved by that concern to sell to british buyers.

At the outset it should be understoon that the P.E.C. is an entirely new departure and is different from previous Benjamin models. In the past, it will be recollected, we have described the four-cylinder model and also the very simple type which had a two-cylinder two-stroke air-coolerl engine. In the latest examble
the additionat unsprung weight which this arrangement entails is not so great as might be imagined.

An accompanying photograph shows the whole arrangement very clearly, and the power and transmission unit may now be described in detail. The bore and stroke are it min., giving a total cylinder capacity of 036 c.c. and a tax of $£ 7$.

The normal engine revs. per minute are 1,200 , but the unit will accelerate to $1,600 \mathrm{r} . \mathrm{p} . \mathrm{m}$.

The disadvantages of crankease compression have been overcome in a very ingenious manner, and the resulting efficiencs should, we imagine, more than comnensate for the slight additional weight which is involved.

The principle can be explained in simple terms by stating that each of the two cylinders is, roughly, twice the normal length, a pumping chamber sealed at its hase by a cover and stuffing box through which the piston rod passes being provided immediately beneath each of the working pistons and dependent upon them for its action. In principle the engine follows ordinary two-stroke vractice. Labrication of the evlinders is on
the petroil system, splash being provided for the bigends and so on; cooling is effected by a large radiator in the conrentional position at the front of the car, connected by tubing to the cylinder jackets, an impeller being fitted to assist circulation. hoth carburetter and magneto are on the near side of the engine unit.

The Ferodo-lined cone cluteh is assembled with the


Showing how the radiator shell can be removed to give access to the cooling block itself. Circulation is assisted by an impeller on the engine.
crankease and is operated by a shaft which passes through the layshaft of the gearbox. The operating cam can be clearly seen in the sectional photograpla of the gearbox.

The gearbox and the housing for the final reduction gear form one casting, which is bolted direct to the rear end of the crankcase, the casting being split vertically so as to assist erection. There are two speeds forward and a reverse, an arrangement which is quite satisfactory on a vehicle which weighs complete no more than $5 \frac{1}{2} \mathrm{cwt}$., helps to make for

shaft and not to the main shaft, final drive is not direct but is transmitted by two straight-cut, constant-mesh pinions. The simplicity of the gearbox will be appre ciated when it is mentioned that it houses but five pinions in all. The drive to the axle is by bevel and crown wheel.

The car has no differential, and here again economy results without sacrificing efliciency, for the track wheelbase ratio is just about right. The car is very light and the tyre section in these days of balloons is comparatively small, 650 mm . by 65 mm . Bergougnan covers being used. The actual gear ratios are:-Top, 5 to 1 : second, 11 to 1.

We were able to examine the power and transmission unit on the bench, and we were particularly struck by the neatness of the design and the sturdiness of the construction. It gives the impression of being practical and solid and should stand up to years of hard work without giving irouble.

## General Details.

Turning now to more general delails, the car has a roomy two-seater body and the side view does not present that fore-shortened appearauce which is so often the case when the power unit is at the back. The body is of sheet metal, the seats are well upholstered, there is ample leg-room, and one experiences the welcome sensation for a very small cax of sitting in the body and not on it.

The car boasts of a very neat concealed hood, the general principle following that of many Continental small cars in which the frame is erected first and the material added afterwards. In the case of the P.E.C., however, conventional hood sticks are employed, the waterproof covering being rolled up when not in use and carried in a recess immediately behind the seat squab. There seems to be no reason why an ordinary hood, with all the vanishing mroperties of the existing arrangements, should not be fitted.

The rear part of the hody is boat-shaped sand contains a fivegallon petrol tank. Incorporated in the screw-down cap is a measure, so that the correct quantity of oil can be adderl. The connection between the tank and the carburetter is of a llexible nature

At present a small rack is provided for the reception of a tool roll, but an ingenious owner could fix up a Iuggage rack in the boot and a similar rack under the
very high bonnot to suit his requirements. The seat and the squab are both removable and give immediate access to the engine, control rods and so forth.

The body is catried on a stout channel-section frame which is well cross-braced and roughly conforms with the outline in plan of the body.

Quatter-elliptic suringing is used all round, that at
aluminium facia-board, potrol-burning side and tail lamps, aluminium step and one or two body refinements.

We enjoyed a trial trip in the car and noticed that little difficulty was experienced in starting the engine -the handle, by the way, being situated in the conventional position at the front-and that there was not a great deal of that very irritating characteristic of


These photographs show essential points in the body construction and so forth of the P.E.C. The petrol tank is carried in the tail, an oil measure being incorporated in the filler cap.
the rear being splayed slightly to give greater stability. Steering is by worm and sector and the controls are of the conventional order-that is, clutch, accelerator and brake pedals, with the accelerator pedal in the middle.

A rather norel feature is the manner in which the radiator shell may be removed so as to give access to the gilled tube block. The base of the shell is held in place by spring clips and the top by a single screw. fimmediately behind the radintor there is an air circulating space and a curved bafle, so that air which pusses through the radiator is suitably directed away under the car.

The equipment of the I.E.C. at the price of $x 88$ includes spare wheel and tyres, bulb horn, screen, hood,
many two-stroke engines when not under load-namely, four-stroking. The clutch was particularly smooth in action and the car is rery easy to drive.

In bottom gear the car appeared to be a trifle fussy, but in top it ran pleasantly and pulled extremely well. The brakes proved to be very eftective and the car will not skid easily, owing to the solid rear axle. We found that at $3 \overline{5}$ m.p.h. the car ran smoothly, but the opportunity for trying higher speeds did not present itself. We are informed that a maximum speed of $45 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. is obtainable.

We understand that the Pattern Makers (Engineering) Co., Ittl., are anxious to appoint agents, who should communicate with the address given, where already about a dozen cars are ready for delirery.


JONES has a super-sports model ; it will do $75 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. but fifteen is its low limit for smooth running on top gear. In contrast Brown's "Yankmohile" will crawl on top gear or plug uphill on full throttle at ridiculously low speeds; only by the help of l’rovidence, however, can he excced $40 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. Suppose you were to analrse their engines, what essential points of difference would you expect to find?

First let us get away from the idea that Jones's engine is better than Brown's-or vice versa. Wach has its own special qualities, the difference being simply due to the fact that one is designed for high rers., whilst the other is made for slow-speed work; in this rematk we come to the initial difliculty of trying to define what is meant by a "high-speed" and a "low-speed" engine.

This difliculty, which is quite a real one, may best be grasped by considering other forms of internal-combustion engine. For instance, to the engineer used to dealing with crankshalts turning at 200 r.p.m. or so, the slowest of motorcar engines would appear to be a rery high-speed type, whereas to the man interested in racing engines the $1,000 \mathrm{r} . \mathrm{p} . \mathrm{m}$. of the large-capacity touring car power unit represents a very low speed indeed.

To get away from this dificulty we may make a rough classification by characterizing as a "high-speed type" any engine in which bearing loads set up by the inertia of the moring parts assume greater importance than the loads caused by compression and expansion pressures. Applying this to the motorcar, it will usually be found that any engine may be called a high-speed unit which normally runs at $2,000 \mathrm{r} . \mathrm{p} . \mathrm{m}$. to $2,500 \mathrm{r} . \mathrm{p} . \mathrm{m}$. or over.

As this matter of inertia loading is a basic means of distinction between the two types of engine, it seems worthy of a little claboration. According to Newton's well-known laws, a force is required to set a stationary mass in motion, and, once it has been induced to move, it will fearl to continue its motion.

## Inertia Forces,

Now, the piston of a petrol engine must be stopped and restarted at each end of each stroke; it follows that at the commencement of the up-stroke the connecting rod must exert a force on the gudgeon pin to make the piston move: lowards the end of the stroke the piston must be forcibly slowed down and then set moving in the opposite direction (which implies that the gulgeon pin is being pulled downwards), whilst, in the same way, towards the end of the down-stroke the slowing-up process must be repeated.

It will be understood that the reciprocating weight giving rise to these inertia forces consists not only of the piston, but also of the rings, gudgeon pin and the upper part of the connecling rod.

On the induction and exhaust strokes the small negative and positive pressures in the cylinder are always altogether negligible, compared with the inertin forces, so that it is the compression stroke and, still more important, the fring stroke, to which we must turn for our proposed classification of high-speed and low-speed B 26
engines. 'This can best be cone by considering a welldesigned light car ongine with a maximum speed of; say, about $3,500 \mathrm{r} . \mathrm{p} . \mathrm{m}$.

At a comparatively low rate of rotation, such as $1,000 \mathrm{r} . \mathrm{p} . \mathrm{m}$., the force applied to the priston due to the explosion in the cylinder will be consiolerably in excess of the upward force due to inertia, the net result being a clownward load on the hig-end., During the following working stroke the inertia force decreases to zero by the time the position is reached in which the connecting rod and crank are at right-angles, while a considerable gaseous pressure is still exerted on the piston, and still later the inertia force is acting downwards, so that the big-end load remains unchanged in direction.

At a higher speed, however, say about 2,500 r.p.m.. the inertia force will have increased very considerably (because it depends upon the square of the $1 . \mathrm{p} . \mathrm{m}$. ), and it may then be equal to the load due to the explosion. If this be the case, then, at 2,500 r.p.m., there will be no big-end load at this point other than that caused by centrifugal force.

## The Power Cutput.

Still higlier up the scale the force due to inertin will exceed the explosive load; in other words, the entire effort exerted by the expanding gases is insufficient to start the piston on its way without assistance from the connecting rod and crankshaft. In passing it may be mentioned that inertia forces do not affect the power output, because the work done in accelerating the reciprocating masses is all returned to the crankshaft whell these masses are slowing lown; their importance is simply due to the fact that they produce rery lig loads on the bearings at high speeds.

Having cleared up our definition of what we mean by high-speed and low-speed engines, we can proceed to examine some of the points of difference in design which become immediately obvious. For example, in the low-speed engine the acceleration and retardation of the reciprocating parts will be comparatively small, so that their weight is not of vast importance. Doubling the speed, however, multiplies the inertia force by four, so that in the high-speed engine it becomes of paramount importance to reduce the weight of the piston and connecting rod to a minimum.

Then, again, the crankshaft bearings of the low-speed engine carry their full load mainly on the compression and expansion strokes, and then get a comparatively restful period whilst exhaust and induction are taling place. Consequently, the bearing area and lubrication system need not be too carefully considered.

In the high-speed engine, on the other hand, the crank pins and main bearings never get any rest from inertia loading, so that they must be made of adequate size; furthermore, their increased size and the high r.p.m. of the crankshaft combine to increase the rubbing relocity of the bearing surfaces far beyond the value associated with a low-speed engine. This means that considerably more friction is apt to be generated, and due provision must be made for the escape of the heat so produced.

Any rotating bearing of reasonably efticient design will, if supplied with quite a small guantity of oil, generate its own film of lubricant between the rubbing surfaces, so that the need for a fully forced system in the high-speed engine is not due to any difficulty in matintaining the oil film, but is simply called for to assist in the dissipation of heat. The oil is forced to the bearings under pressure and is continually flowing through them, carrying away the heat which is generated.

The effects of the inertia forces in a high-speed engine are, however, even more far-reaching than this. In a four-cylinder unit, for example, the loads applied through the connecting rods tend to bend the crankshaft and the crankease as a whole, and reach figures of which the average motorist never dreams. For example, in a $1 \frac{1}{1}$-litre engine the load on a central crankshaft bearing (if any) may well amount to over a ton at high speeds, and, furthermore, its direction is continually changing.

To withstand these bencling effects it is essential that the crankshaft and crankease should be of the greatest possible rigidity, and, indeed, in a high-speed engine rigithty of the parts becomes far more important than mere strenglt. In a low-speed engine, on the other land, the crankslaft may simply be designed from the point of view of strength and bearing area, and its diamelers and webl thicknesses can, therefore be made considerably smaller than those of a similar high-speed engine.

Another boint which is worthy of mention here concerns the design of the connecting rod. In a low-speed ragine this part is mainly designed to withstand the loads applied at the ends, so that the rod can be treated
more or less as a simple column separating the piston and crank pin.

As the engine rotates, however, the rod must swing to and fro in pendulum fashion, and, at high speets, there is a tendency for it to whin sideways in a manmer made clear by one of the drawings reproduced. In more technical language, there is a iransverse bending action, to resist which the section of the rod must he designed like a girder, and it is for this reason that the well-known I -section has become so generally adopted.
We have now dealt with the main structural differences, with the exception of the valve gear and combustion chamber. Before going on to these parts something must be said concerning valve timing.

At low speeds the periods available for the entry and exit of the gases to and from the cylinder are so gencrous that no special precautions are required to ensure complete filling of the cylinder with mixture and equally complete exhaustion. Consequently, the exhaust valve can be made to close exactly at top dead centre, with the inlet ralve opening at much the same point. The exhaust valve may be allowed to open a little early, with the inlet valve opening, perhaps, twenty degrees late in order to get the best results, say, at 1,000 r.p.m., but no big amount of lag or lead is necessary.
In a high-speed engine conditions are vastly different, because the time arailable for the entry and exit of gases is so very short. At $3,000 \mathrm{r} . \mathrm{p} . \mathrm{m}$., for example, each stroke occupies only $1-100$ th of a second. Now, gases possess inertia in some degree, which means that they must be permitted a little time in which to attain a high velocity, and, furthermore, when they have bern set flowing, they will continue to do so, even in the face of some resistance.
(To be consluded.)



## The Automobile Language.

GLAN゙CING through some second-hand light car radvertisements, I was struck by the follow-ing:-" 7 h.p. . . . saloon . . . gaiters
2 balloons. . . ." If a 1012 motorist were to return to the world at large after being out of touch with eversthing concerning motors for 14 years, how mystified he would be!

Changes in design and automobile phraseology are occurring almost daily; the formei car enthusiast would wax sarcastic over the advertisement in ignorance of its modern meaning. One can almost hear him exclaim, "The idea of a 7 h.p. saloon: The printer left the ' 1 ' out. and, as to including the owns's legwear and his children's toys, what are we coming to?"

## Metallurgical Marvels.

AYOUNG friend of mine lately tried conclusions with a brick wall, to the detriment of his front axle. Anxious to know whether he would have to fit a brand-new unit or whether the damaged one could be repaired, he consulted with a business friend who, to judge from his conrersation, knew everything about every car. This was the startling pronouncement:-" You may straighten the axle if it can be done by putting it in the vice and bending it cold. You must not heat it, as it is made of cast steel, and if you heat it it will affect the case hardening and the axle will crack." I feel it would be rather entertaining to see this expert attempting to bend a steel casting, cold, in the vice. For the benefit of other new owners who may be in a similar plight, let me say that front axles (other than the tubular type) are steel forgings, and in most cases may be heated and straightened without risk of subsequent failure. The job is one for an expert.

## The Perfect Purchaser.

THE element of luck enters into the majority of second-hand sales. 'The enthusiasm of a purchaser is rarely made manifest-in front of the vendor, at least; but, when it is, the sale is even more pleasant-for the seller.

A friend of mine advertised his two-seater one recent Friday morning, and the following day he got a letter, brief but to the point: "If the car is O.K., I'll buy." No beating about the bush and no signs of haggling. An appointment was fixed over the telephone and the car driven down to the inquirer's house the same day.

B28

The would-be purchaser opened the loor, surreyed the car at 15 yards' ranse for a moment, and then led the owner into the dining room for coftee and a smoke. The price of the car was solemnly paid in notes and the vendor staggered away on foot, hardly knowing whether he were really awake. lromptly at $9 \mathrm{a} . \mathrm{m}$. on the Monday the notes were taken to the bank and anxious questions put as to their being genuine. As they were pronounced $\mathbf{A 1}$, doubts were set at rest, but the seller is convinced that the age of miracles has not passed.

## Sweet-running After Dark.

WTHAT is the secret of the "running-on-velvet" feeling one so often experiences after sunset, especially on summer evenings? I have nerer seen or heard a convincing explanation; indeed, there are authorities who declare it to be a myth. Some people will also tell you that there can be no actual difference in the quality of the air, say, at Leamington and Blackpool, air being air and chemically the same everywhere.

I am afraid, however, that scientists who argue this way find a pretty sceptical public.

## Counties Good and Bad.

THE extraordinary variation in the attitude of the police towards motorists in different counties seems to me to merit the attention of Parliament. Why is it that some county authorities should be able positively to wallow in the amount of money they extract from motor owners, while in other areas the total received at the petty sessional courts is nothing exceptional?

I live close to where two counties adjoin. If I turn north for my jaunts I can be sure that, except for a periodic inspection of licences, 1 shall be entirely free from trapping. Indeed, in twenty years' driving in this particular county I have never known a trap to be set. But should I turn south into the neighbouring county driving becomes a bugbear, police officers seeming to lurk round every corner.

## Why, oh! Why?

NTOW it is obvious that trapping as a policy must be initiated by someone. At present motorists are inclined to ascribe responsibility to the County Council or to the local bench, but neither of these bodies is the villain of the piece. The prime mover in thése matters is the chief constable. It
thus becomes an arbitrary enactment in which projudice possibly plays a large fart.
I sulmit that. as taxation is on national lines, si) also should be the methad of controlling motor raflic, one policy onerating throughout the entire conntry. If $I$ am regarded as a law-ahiding citizen in blankshire, why should I become a potential criminal the moment $I$ cross into Crankshire? My driving is no different. It is intolerable to think that one's day's measure is entirely at the merey of some mandarin against whose dictates there is no alpual.

## Stowing Luggage.

MHE Hoohlem of accommodating lugnage on L small cans-and even large cars, for that maller-is one that besets most family men at holiday times. If all the seats are in be occupied Where is not mich space to spare, and oven a luggage grid thes not always solve one's difliculties. This is an instance where an hour or two of careful prepalratton is amply repaid.

First of all. the passengers should be seated and thon every inch of surplus space surveved and measured. It will then be found that there are a bumber of nooks and corners where neatly packed mavels can be put.

## Kit-bag Better Than a Portmanteau.

IT is not generally realized that an Army kitLhag is much more satisfactory for carrying in a car than is a portmantean or suit-case. It takes al lared glabitity of soft articles, and ballasted at
the bottom with footwear, will stand upright in a small space. If children are to occuny the back seats it may he found possible to stand tro kitbags in front of them.

Then, too, the running boards present a lot of useful space lying fallow-fitted with a collapsable grid, they can be made to carry quite a large amount of luggage. Army kit-bags wrapped in waterproof sheeting are ideal for this position, as they will not damage the paintwork of the sides of the car and the door panels.

Space in the lockers also should not be overlooked, for, if the tool-kit and spares are packed into the smallest possible compass, it is surprising how many small articles can be disposed of in them. Where a car is of the closer-leaf varlety with side lockers, the tops of the lockers can be utilized as well as their interiors.

## A Samaritan Rebuked.

WALKING to the local licence oflive the other day I was the wituess of a very amusing incident. The office is situated in a back street, so narrow that there is scarcely room for two vehicles to pass. On one side was a stationary lorry and behind it a motorcar; which was waiting for a cyclist to come along in the opposite direction. The car driver was signalling to the cyclist not to hesitate, but the latter must have mistaken his meaning. for, in tones of obvious resentment, he cried, "All right-keel your 'atir on! I've got a right to go my own pace!" Enknown to him, the motorist he was reproving was the Chief Constable!


AT KEDAH,
F.M.S.

The smallest types of British car are now to be found in almoat all parts of the world. These three Austin Sevens are proving their utility to the British and native population in the Federated Malay Statea.

## Controls Are Not Infallible.

MANY car owners evince a touching faith in the eflicacy of this lever or that to produce the required result. Their knowledge seems to ston at the facia board. and their bewidderment when, after "pressing" the button, the mechanism fails "to do the rest" is positively tragic. Curiously enough, even owners who have had it whole year's driving experience, do not always realize that there are two ends to a control, and the fact that one end is working is no guarantee that the other is responding. On some cars positive movement is cansed by a cam, negative by a spring, and a broken spring or binding rod may easily give rise to most puzzling symptoms.

It is a solemn fact that a garage recently towed a car along the rond to get it to start (incidentally buckling the track rod in the process) when the only trouble was that the air strangler, the control for which was in the closed position on the facia board, was wide open at the carburetter ent.

## A Summer Time Tragedy.

AFAMLLE I know had promised themselves a glorious outing on the first day of Summer Time. The car was in tip-top trim, a long and picturesque route had been planned and, although the weather forecast was none too cheerful, they all retired to rest in hapny anticipation of the morrow. To their delight morning dawned delightfull: lunctual to time, the pienic basket was packed in,
all the massengers took their seats, and paterfamilias, settling down behind the wheel, let in the clutch, and at that crucial moment the thought suddenly struck him-like a blow that his driving licence had run out a week previously! I will draw a veil over the subsequent proceedings except to say that, falsifying the weather report, the day became more and more radiant, being, in fact, one on the most beautiful of the rear! Such, a cynic might say, is life.

## Invisible Motorcyclists.

ALJJHOUGII legally we need not light any lamps Save that illuminating the rear number plate until an hour after sunset, few of us take adrantage of the fact, the side and tail lamps usually being wited to come on simultamenosly. It could he wished that motoreyclists subjected themselves to a similar self-denying ordinance and lit up earlier.

At present the law regards them as cyclists, and my experience is that the great majority exploit the position by going to the legal limit before putting on their headlamp. Unfortumately, a motorcyclist, sitting lower than a pedal cyclist and having little to distinguish him from the road, is very difficult to see in the gloaming, and his suced brings him upon oue almost unawares. Eispecially is this so in a lane flanked by tall hedges or fringed with trees. I am writing this paragraph following a very near squeak which I liad last week-when motorcycling :


AT THE LEWES SPEED TRIALS.

The passenger in S. H. Constable's Morgan adopted this extraordinary position to help the bacis 3.31'


## A Petrol Tax.

IN his Budget speech the Chancellor of the Excherfuer pointed out that, owing to the difliculties of substitutiug a motor spirit tax for the jresent licence dlutes, he had been unable to make proposals in the mosent Budger. but that he hoped to make the change during the lifetime of the present Parlitment.

It is very diflicult to say wher her this is good news or bad. Mr. Churchill has established a precedent for grabhing funcls allocated to specific purposes; he has also put forward the policy of taxing cars for general revenue purposes as distinct from the practice followed heretofore of taxing them to raise money for the building and maintenance of our highwass. In the light of these developments, is it not possible that the introduction of a petrol tax might put motor taxation on a similar basis to income tax? It is not inconceivable that succeeding Goveruments and succeeding Chancellors might develon the habit of balancing their Budgets by raising or lowering the tax on petrol. We can foresee the possibility of a petrol tax being forced up to any unreasonable figure. With the present method of taxation at least we are sure that we pay only £1 per horse power per annum. The fact that the money so raised is to provide coal subsidies and so forth is unjust and infuriating, but it does not directly hit our pockets.

## " It Is An Ill Wind

APAR'T from the fact that from the present surplus Road Fund moneys $£ 7,000,000$ are to be appropriated and that a further $£ 3,500,000$ are to he deducted for general revenue purposes from the jroceeds of this year's motor taxes-a sum of $f 10,500,000$ in all-there are in Mr . Churchills budget speech certain proposals which are likely to meet with the approral of small car owners.

Heavy motor vehicles, which are known to be very destructive to the roads, are to be taxed much more heavily than heretofore. A five-ton lorry, for cximple, which now pays $£ 30$, will be destined, as a result of the Finance Bill, to pay $£ 60$, whilst for the right to draw a trailer, instead of paying $\mathfrak{f} 2$ per annum, as it does at present, it will have to jay £10 per annum. Hervy wagons. used for drawing trailers, which at mresent pay $f 32$ per annum in all, are thus down to nay $\mathfrak{f} 70$. In connection with chars-id-bancs, the scale of taxes has
" the light Car and cyclecar"was FOUNDED IN 1912 TO CATER FOR THE NEEDS OF USERS AND POTENTIAL PURCHASERS OF LIGHT CARS AND CYCLECARS, AND IT HAS CONSISTENTLY ENCOURAGED THE DEVELOPMENT OF THE ECONOMICAL MOTORING MOVEMENT FOR OVER THIRTEEN YEARS.
NO CAR WITH 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

also come in for revision at the hands of the Chancellor. Buses to seat more than $\overline{\mathrm{T}} \mathrm{6}$ persons now pay $\mathfrak{f} \boldsymbol{T} 0$, and they are down to pay $£ 120$.

The effect of the higher taxes will be to restrict the use of the heariest types of commercial motor vehicles and to deflect a considerable proportion of the goods traflic at present making use of the roads to the railways. This will mean that the life of the roads will be longer, so that the $\mathfrak{f 1 7 , 5 0 0 , 0 0 0 \text { a }}$ year which Mr. Churchill proposes should be spent in future on the roads should be sufficient to keep them in very fair condition. The added scale of taxes will be a heavy blow to our commercial vehicle industry, and it is very questionable whether the proposed application of the McKenna Duties to imported lorries would offset the loss of business likely to be sustained by British manufacturers.

## What of the Vertical Twin?

THE description which we give elsewhere in this issue of a small car offered at the remarkably low price of $£ S S$ brings into prominence the question of vertical two-cylinder monobloc engines. The car in question is equipped with an engine of this kind- of the two-stroke type-and it is by no means the first inexpensive light car using an engine embodying this form of construction. The disadrantage of a vertical two-cylinder engine is that, if it is of the two-stroke type, it has to fight a certain amount of prejudice, whilst if it operates upon the four-stroke cycle, the firing intervals are uneven. We are inclined to doubt, however, whether these are serious objections.

Looking back upon the history of economical motoring, a few models with vertical twin engines stand out as having been conspicuously successful. Examples 14 years old are still giving reliable service. and it cannot be denied that if thes were manufactured at the present day on much the same lines, but embodying up-to-date ideas of design and modern methods of construction, they would stand an extremely good chance of being very popular indeed. It must not be overlooked that a two-cylinder engine with two separate cylinders is very nearly as expensive to build as a fourcylinder monobloc. A two-cylinder monobloe, on the other hand, is a very inexpensive type of unit. We should not he surprised if it recorered some day the prestige which it has lost.


PICTORIAL INCID
END SPORTII


THE TRAVERS TROPHY TRIAL-SPEE -SURBITON MOTOR CLUB'S

THE TRAVERS TRIAL: (1) J. G. Glinton Friars (Clyno) on the bad surface of Raise Hill. (2) L. G. Fletcher (Austin) on Studdon Hill. KENT AND SUSSEX L.C.C. AT LEWES: (3) The passenger in S. H. Constable's Morgan does his best to ensure rear wheel grip. (4) E. Hillary (Frazer-Nash), who obtained the premier award for fastest time. (5) The four-valve G.N. It was driven by L. Humphries. (6) Miss Ivy Cummings (Frazer-Nash) starting. She was only t sec, B3:

ENTS IN WEEK. vG EVENTS.


## revents at lewes and essendon

 MEETING AT BROOKLANDS.slower than E. Hillary. NORTH LONDON M.C.C. AT ESSENDON : (7) E. Fernihongh at speed in his single-cylinder Morgan. (8) C. C. Lakin (Salmson) accelerating after rounding the bend. SURBITON CLUB AT BRUOKLANDS: (9) Mrs. Christie starting in the third race which she won. (10) An exciting moment in the 50 -mile race. Capt. Malcolm Campbell, in his two-litre Bugatti, passes B. Eyston (Aston-Martin), on the last lap.

Road Tests of 1926 Models.

## THE 10-23 H.P. TALBOT WEYMANN SALOON.


" H OW restful!" was the comment of the first person to occupy the seat beside the driver in a $10-23 \mathrm{~h} . \mathrm{j}$. 'lanlhot Weymann salonn which we had the opportunity of testing a forthight ago. And those two words typify the performance, the seatiner accommodation and the appearance of this very luxurious car.
'The performance is restful both from the point of riew of the driver and the passengers, because the mechanical details of the car function with absolute silence, whilst the running is vibrationless and the suringing-aided by 28-in. by $4.95-\mathrm{in}$. -balloon iyres-very close to perfection. Hartford shock absorbers are used at the rear, but the front springing is unaided by any extraneous device.

This Talbot model, although the tax is only $x 9$ and the engine capacity 1,073 c.c., has little in common with the typical light car from the driver's point of riew, feeling, in fact, much more like a $15 \mathrm{~h} . \mathrm{p}$. or $20 \mathrm{~h} . \mathrm{p}$. car. This " big car feeling" is produced by the somewhat massive controls, extremely roomy bodywork, a long bonnet and scuttle, a broad span between the wings and an engine which deals with its load in a singularly effortless manner.

Of the o.h.v. four-cylinder type, the engine cliffers from most small engines in that it has a three-bearing crankshaft with oil force fed to the big-ends. It is claimed by Clement Talbot, Itd., tha manufacturers, that this unit is definitely designed in the light of strenuous racing experience and this is abundantly clear to any connoisseur who drives it.

Strangely enough, however, whilst racing characteristics are much in evidence, the disadvantages common to most engines giving an exceptionally good performance are conspicuously absent. Petrol consumption, for example, averaged, In the case of the car which we tried, 32 m.p.g., whilst oil consumption was negligible. The ralye gear was extremely silent and the top gear performance on a par with that provided by the average engine of the "woolly" type.

As a power unit for a small sports car. and aided by a four-sped gearbox, this litte Jalbot
engine would be a positive delight to drive, but installed as it is in a comparatively heavy chassis, called upon to draw a bulky hody and with only three gear ratios available, it is still willing to a degree and capable of performing more creditably than many units which are half as large again.

We have mentioned that the interior of the Weymann saloon body l.s restful; it is also very luxurious. The seating accommodation provided actually is suflicient for six adult passengers-a fact which we proved for ourselves by taking this full complement for a lyo-mile run.

In addition to what might be termed lateral generosity, there is also plenty of legroom and smple height, whilst, as the front seat is adjustable both fore and aft and for the angle of the squab, a driver of any height should be comfortab": The upholstery is carried out in a fawncoloured cloth, hair-stuffed and nicely sprung, whist generously carpeled floors and a pleasant finish for the whole of the interior add to the general sense of luxury.

Nothing likely to contribute to the comfort of the occupants of the car has been omitted, the standard equipment cren including a smoker's companion and an elaborate assortment of scent hottles, powder puffs, ranity mirrors and the like. For ventilation the windows of any of the four doors may he raised or lowered by revolving lifts.

There are two refinements which have been omitted and which we think might well be incor-
porated. These are a windscreen wiper and a blind for the rear window, the need for the latter being due to the use of a vertical front screen which reffects the lights of overtaking cars when driving at night.

Survesing the car from the point of view of the driver, we fomm that there was very little to eriticize, all the controls being well placed. The throttle and ignition levers, which are arranged above the steering wheel, are perhaps the best of any car we know. The arangement of the former deserves special praise, it being designed so that the first half of its travel gives a delightfully sensitive softing, whilst the latter half allows the throttle to be fully opened.

The catr which we tried hat central control for the them-sperd gearbox, but right-hand control is availahbe at an extra cost of $£ 5$ if ordered with the car or $£ \mathrm{t}$ 10s. if ordered subsequent to delivers. We foumd the lelt-band change to be quite satisfactory, the lever being conveniently placed and the actual changing of the gears quite simple.

The ratios provided are top 5.1 to 1 , second 0.35 to 1 , and the bottom 19.42 to 1 . The speeds arailable on the two higher ratios proved to be $46 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. and $33 \mathrm{~m} . \mathrm{p} . \mathrm{h}$., in each case with three adults aboard.

The clutch, which is of the single-disc Ferodolined type, runs in an open pit, is light to control and in welght-whilst it gives a very sweet pick-un.

While the car was in our care we had some trouble with the clutch slipping until it was found that a little oil was needed on the pins carrying the plate. A few spots on each of these-the work of a moment-restored the clutch to its previous efficiency.

The brakes, which act on the rear wheels only, are of the side-by-side internal-expanding type operating in extremely large druns. Their action proved to he very good indeed.

Of the irreversible worm and nut type, the steering gear does not appear, from an examination of it, to differ materially from many other


Ingenious and practical features. (1) The jack, wheel-brace and other tooln are housed under the bonnet. (2) A leather strap provides an adjustment for the rake of the seat squab. (3) There is a large pocket for maps, gloves and so forth. (4) The big, weather-proof toolbox, which is sunt in the running-board.
drsigns employing the same principle, yet the control afforded is immeasurathy superior. There are few, if any. light cars which have more delightful stecring than that of the $10-23$ h.p. Talbot. It is as light and free as one could wish. It has a sensitive "feel"; it is maffected by the nature of the road surface and it is arranged to need just the right amount of effort when cornering.

The car which we tried hat covered nearly a thousand miles before we took it orer and we did a further lumared miles ourselves before embarking unon the six-up 150 -mile run which we have previously mentioned. At the conclusion of the initial hundred-mile run it was noticed that a rather undue quantity of water was needed by the radiator and the cause of this was traced to a leaky bump ghand. This was soon rectified, after which it was found that the pumn-circulated
water-conling system was well up to its work. Whilst tightening the fump gland we made our firs acquaintance with the very cleverly arranged toolbox, which is sank into the near-side running board. 'The wheel-changing outfit-a jack, its handle and the wheel-brace-is carried in clips heneath the honnet, where one also finds a pair of pliers, an oilcan, and a box-spanner for changing plugs.
The $10-23 \mathrm{~h} . \mathrm{p}$. Talbot is unguestionably one of the most refined of light cars, whilst, as many owners of two and threc-yenr-old models will confirm, it is designed not only to he comfortable and convenient, but to last. The price of the model which we tried, and which is illustrated on the preceding pages, is $£ 4 \overline{0} 0$, the makers being Clement Talbot. Lith., Barlby Rond. Ladbroke Grove, London, W. 10 .


IHHE smallest, the lightest and almost the cheapest enclosed cars in the world, the Gordon-England Aastin Seven saloons have won an extraordinary degree of popularity in a very short space of time, and, after subjecting one to a fairly extensive trial, we do not consider that this is surnrising.

The outstanding feature of the car is its extremely light weight, which, with the four-gallon petrol tank filled and with a full equipment of tools, spare whee and so forth, was certified by the London County Council weighbridge as being 8 cwt. 70 1 lb . This is, we understand, appreciably lighter than the standard model Bith all-weather chummy bods.
The seating accommolation provided by the saloon appears to be a trifle more gencrous than in the case of the nuen car. There seems to be more elbow-room and the screen is taller, which creates an atmosphere ol roominess. The occusional seat at the rear is by no means uncomfortable for one adult, whilst it will house three small chitdren or two normal youngsters of 14 or $1 \overline{1}$ years.

In addition to very great pains haring been taken to make the bodywork comfortable, it has also been blanned to present a dignified appearance and to be as convenient as possible. The question of convenience has been attended to in the provision of two exceptionally wide doors-these are no less than 28 ins. in wilth-the fitting of a very easily adjustable driving seat, and the adoption of a sensible design of folding seat in give access to the rear of the car. The comfort of the occupants has been attended to by the provision of pneumatic cushions for the two front seats, whilst there are two swall lockers located in the body sides, an automatic windscreen wiper and four sliding windows

The chassis used for these little saloons are abso Iutely standard in every respect. and the performance does not differ materially from that of the $£ 149$ model.

The actual ear which we tried prored to be capable of 46 m.p.h. on a gond level road in top gear and B.34

## AUSTIN SEVEN GORDON. ENGLAND SALOON.

KOAD TEST OF THE SMALIEST ENCIOSED CAR IN THE WORLD.


Despite the miniature aspect of the tout ensemble, there is plenty of room inside the car. Comfort has been closely studied.
$37 \mathrm{~m} . \mathrm{p}$ h. in second gear, whilst it would tour very pleasantly and silently at $40 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. and maintain an average speed of $30 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. wherever trafic conditions permitterl.

So far as silent running is concerned, this saloon model appears to run even more quietly than the touring model, and there is a complete absence of body noises of any kind.

The only criticisms we have to offer concerning the toit cnsemble is that the somewhat square lines of the body make rather heavy going against a strong headwind; the plate glass of the windows might be with advantage of a rather more robust nature, and a blind for the rear window would be very much appreciated when driving after dark to prevent the reflection of the lights of following cars in the windscreen.

Whilst the car was in our possession it beḩ̧ved very nicely indeed, was admired by everyone to whom it was shown, and made a particularly strong appeal to the fair sex.

Areraging about $40 \mathrm{~m} . j$.g., this Austin Seven saloon must be one of the most economical closed cars,
paricularly in view of the fact that the fabric covering of the pancls can be washed down at home in five minutes. The car takes up very little garage space, and is, owing to its light weight, anything but hard on tyres
The price is $£ 210$ in rontlon, a de luxe model being arailable at an extra charge of $\{20$. Purchasers of de luxe models are given a choice of body colours, a
more luxurious scheme of upholstery and interior decoration, an interior roof light and other refinements. Unsplinterable glass can be fitted all round at an extrit cost of E 15 .
The address of Gordon England, Itd., the manufacturers of these bodies for Austin Sevens and also of the very attractive Cup Model two seaters, is Felsham Rond, Puiney, London, S.W.

## IMPROVED 10 H.P. BERLIET MODELS.

NEW STYLE FOUR-SEATER FOUR-DOOR TOURING BODY-A £350 SALOON-IMPROVED GEAR GATE AND LEVER.


## FOR THE OWNER'S CONVENIENCE.

The new long gear lever and the general arrangement of the controls are clearly shown above. To the left will be noticed the vacuum tank for the new petrol-fecd system, the modified water connections and the extra neatness of the unit.

ANUMBFila of improrements has been made recently in the 10 h.p. Berliet which, it will be remembered, was introduced to the British market at the Motor Show of 1924.
The latest model differs from earlier types, principally so far as the design of the coachwork is concerned, this now approximating more closely to British standards than hitherto. A case in point is the provision of rigid side curtains of the conventional type. These are pegged into the top rail of the body, and when not in use are stored in a locker behind the rear seat squab.

A big improvement has been made to the driving seat; this is now deeper and better sprung than previously, whilst it is adjustable fore and aft over a fairly wide range. The rear seat has also been improved, whilst a leather cloth of excellent quality is used for the upholstery. Mair carpets for the floors, the provision of pockets in the cloors and an extremely good conchpainted finish complete the improvements to the coachwork. The lines of the latest body are cleaner nud more handsome than hitherto, the appearance of the whole car being consequently enhanced.

So far as the classis is concerned, no important alterations have been mate to the original clesign, which has proved to be entirely satisfnctory, but a number of details have been modified. The gear lever, for example, is now much longer, and the gate has been altered
so that reverse has a slot of its own, thus saving the driser the annojance of having to go through first en route to it.

The engine, which has a capacity of 1.159 c.c., is of the four-cylinder overhead-valve type, and remains unchanged except for a different style of cooling-fan bracket, modified water connections and the provision of a vacuum tank in the petrol-feed system. The tank, which in earlier models was mounted under the scuttle, has now been removed to the rear of the car, and is very large indeed for a $10 \mathrm{~h} . \mathrm{p}$. model, holding no fewer than 10 gallons. This is said to be sufficient for 400 miles' runuing.

In place of the Hartford shock absorbers which have been used so far, Gabriel snubbers are now standardized, and these, combined with the extremely long semielliptic springs which are used front and rear, provide an exceptional degree of riding comfort.

The touring morlel illustrated costs $£ 29 \overline{5}$, the saloon being listed at $£ 350$. Both models have front-wheel brakes and 12-volt electric lighting and starting equipment; 730 mm . by 130 mm . Michelin balloon tyres are fitted, and a particularly smart appearance is a characteristic.

Features of the saloon are that the windows in all the four doors have nutomatic lifts, there are blinds for all windows and the front screen is a single pane hinged at the top. This model is upholstered in cloth
and the general schme of the interior decoration is carried out in good taste and on particularly luxurious and pleasing lines.

During the course of a short run we could fint nothing whicls called for adverse criticism, whilst it


Was noticed that the various details which have been modified add materially to the pleasure of driving the car.
The new long gear lever deserves special praise. The knob now comes just to the left of and slightly abaft
the driver's left knee. In this position it is particularly comvenient to operate, yet does not obtrude itself when not reduired. As all styles of conchwork have off-side doors, the gear lever does not obstruct entry to or egress from the druver's seat.

The alterations to the cooling system have resulted in an even cooler-running engine. So eflicient is the new arrangement that the fan ean be disponsed with except in really hot weather. It is easily put out of aclion ly removing the belt from the pulleys.

A feature of the saloon model is the movision of a

The two models of the $10 \mathrm{~h} . \mathrm{p}$. Eerliet. Eoth have the characteristic of looking particularly robust, smart and workmanlike.
sun risor orer the windscreen; this serves also to keep snow off the screen in winter.

For a slight extra charge the $10 \mathrm{~h} . \mathrm{p}$. Berliets can be supplied with wire wheels in place of the Michelin discs.

## ITALIAN MOTOR EXHIBITION.

THE Italian Motor Exhibition, which was held in Milan from April 12th to 27 th, was notable for the fact that light cars and cyclecars predominated, so that the exhibition was dubbed by many "The light car saton."

So far as Italian exhibits were concerned there were no outstanding technical novelties, but rather a tendency towards general refinement in constructional detail and nn inclination towards simplicity and neatness. England, France, America, Austria and Germany were represented; thus the exhibition was of an international character.

The 7 h.p. Fiat attracted a large amount of attentien ; it was on show in the "Sports Palace" and in the special Fiat salon. Chassis were exhibited carrying almost every type of body, among which was included a Weymann streamlined two-seater mounted on the sports chassis, which has a standard 7 h.p. 954 c.c. engine, tuned to exceed $60 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. Rudge-Whitworth wheels and Hartford shock absorbers are standard fittings.

The new 1.500 c.c. four-cylinder model was also on view. This has been developed from the celebrated " 501 " 13 h.f. model and is fitted with a new radiator, a side-by-side-valve engine and a new Ricardo-type cylinder head. One chassis was shown with a fourseater touring body and another with a Weymann saloon.

The 1.100 c.c. S.A.M. car was on view. It has a thassis sperially designed for Italjan roads, the framework being sufficiently strong to carry a 1,500 c.c. engine if necessary. Actually the engine used is an o.h.v. Chapuis-Dornier 1,100 c.c. sports model.

France was represented by a very large number of B3S
light cars, notable amongst these being the Fengeot and the Citroen, each make having been built in Italy at the new works of the respective concerns, which are making a strong bid for the Italian market. Citroens were shown with popular types of coachwork, and on one $7 \mathrm{~h} . \mathrm{p}$. chassis was mounted a new type of sporting body of somewhat American appearance.

On the leugeot stand was shown the $7 \mathrm{~h} . \mathrm{p}$. winner of the Coppa delle Alpi-the great latian touring and reliability competition-together with sporting, cabriolet, two-seater and other models. Amilcars, Derbys, Salmsons and Sénéchals in various types and models were on view. The new Derby-Special racer, fitted with a Scap o.h.v. engine and a Cozette supercharger, attracted a large amount of attention.

The car is claimed to be very fast, and in all probability it will be seen in competition work during the year. Examples of the Salmson Grand Sports chassis hitted with French-made aluminium bodies and with streamlined Italian bodies were also exhibited.

The chief German example was the Hanomag, a somewhat revolutionary car so far as its mechenical design is concerned, but the model on riew, which was fitted with an unusual type of body, failed to create a very favourable impression.

Sénéchals were represented by sports and touring models. In the 1,500 c.c. class was shown the sixcylinder Alfa-Romeo, the engine of which has an o.h.v. camshaft. The car is said to be capable of $60 \mathrm{~m} . \mathrm{p} . \mathrm{h}$.
The majority of the English exhibits were large cars, but this country was well represented in the motoreycle section. It was noticenble that English ideas with regard to coachwork had been closely conied by Continental manufacturers.

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## DUNLOP - THE STANDARD DY which ALL TYRES are JUDGED


$86 \cdot 02 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. for 4 Laps.
Mr. B. E. Lewis, an amateur owner-driver, won the Surbiten All-Comers' Handicap at Brooklands on Saiturday, April 24, driving a $1 \frac{1}{2}$-Litre Bugatti at an average speed of $8602 \mathrm{~m} . \mathrm{p} . \mathrm{h}$.
$108 \cdot 60 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. for 50 Miles.
Capt. Malcolm Campbell, at the same meeting, won the 50 Mile Handicap on a Sranda-d Two-Lisre Grand Prix Bugarti exactly as received from the works, only plugs and oil being changed, 4 World's Class E Records being taken during the race.

International Class E Records.
50 Kilos. 173.86 k.p.h. $108.03 \mathrm{~m} . \mathrm{p} . \mathrm{h}$.
50 Miles. $108.64 \mathrm{~m} . \mathrm{p} . \mathrm{h}$.
5 and 10 Miles.

1 $\frac{1}{2}$ Litre 4-cyl. Grand Prix Bugatti. A real sports car. 4 -speed gearbox giving exiremely flexible and smooth running with a range of speed from 810 approximately $100 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. on top gear. Expert tuning and thorough overhauls carried out under skilled supervision on the premises. PRICE REDUCED FROM $£ 600$ TO $£ 550$ Complete (including dynamo lighting, spare wheel, etc.) Other Racing Models Proportionately Reduced.

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# CLOSE FINISHES AT BROOKLANDS. 

SMALL AND LARGE CARS PROVIDE GOOD SPORT IN THE SURBITON MOTOR CLUB'S FIXTURE.


LLST Sinturday's Brooklnads meetding of the Surbiton Motor Club followed very much on the lines of the Junior Car Club's event on the previous Saturday. The organization, however, gave no cause for adverse criticism and faree cars as well as small ears took part.

The eltub places every facility at the disposal of its women members who desire in drive, nad both Mrs. Duller nad Mrs. (hristic availed themselves of this urivilege-to such good ndvantage that each secured $n$ first place
Mrs. Duller is, of course, well known to Broolinnds habitues, but Mrs. Christic was making her debut on the track, although she has had a considerable amount of experience as a driver of fast cars. She was handling a Morstman which, if we nre not misanken, has "toed the line" with 200 Mile racors, and Mrs. Christic showed that it had lost none of its paces.
The mecting started with the Surbiton Junior Short Mandienp. 'Ihe only alteration which took place in the entries was the rehandicapping of the two-litre lugatti, owing to the fret that Capt. Malcolm Compbell at the Inst minute was announced as the driver of the car instearl of Mrs. Campbell.
The race proved to be a popular win for Mrs. Duller (Anstin Seven), who erossed the finishing line 100 yards ahend of V. S. Balls (Amilear) and Malcolm Camplell (Bugatti). Waite's Austin Seven secured the fourth place, the car having improved its position materinlly during the race. The speed of Mrs. Duller's car was 72.18 m.p.h.

In the Surrey Senior Short Mandi cap, Capt. Waite's Austin Seven wns the only small car entered, and it wns matched ngainst ginnts lilie ILowey's Ballot and Capt. Miller's Sunbeam.

Waite had a stnrt of 56 seconds from the seratel man. Howey, and he made such good use of it that nt the first lap he still Ind Stnmiland's two-litre Bugatti by a quarter of a mile and actually crossed the finishing line about 10 yards ahead of Miller's Sunbeam. The latior made rather a bad getawny and to this, it was generally conceded,

Waite owed his victors. Third place was obtained by Staniland (Bugatti). The speed of the winner was S3 m.p.h.

The Surbiton Junior Long Inndicap was held over three laps, and in this race Mrs. Christic scored her popular, but, it must be admitted, rather unexpected, sucecss. Mrs. Duller also ran in this race but, following her suceess at the beginning of the meeting. she was rehandicapped and did well to secure third place, conceding second place to Gillow's Riley, which ran through the ficld. The winner's average speed was $76.15 \mathrm{~m} . \mathrm{p} . \mathrm{h}$.

It wrs obvious from the start of the Senior Jong Ilandicap that Vernon Balls in his sumercharged Amilear meant busimess. Me got off the line very smartly, and at the end of the first lap led G. E. 'T. Fyston's Aston-Martin by at least a muarter of a mile. Staniland's Bugati was coming un well and Howey (Ballot) wis streaking round at well over 110 m.p.h.

## A Hard-fought Win.

On the second lap Balls had increased his lend over Eyston, the latter, however, heing hotly pressed by Staniland. The little Amilear finshed over the finishing line after a bard-fought battle with Staniland's Bugatti second and the lablot third. It was an excellent race and showed the paces of the super charged Amilear to be 84.27 m.p.h.
The All-Comers' Mandicap was run nver a distrnce of 11 miles. The AvonTnp did not ran. Kaye Don driving Capt. Miller's Sunbenm instend, hut there were two extrn racers in the shape of Capt. Douglos's Bugntti, driven by Lenvis, and J. IF. Miller's Miller-Snecial-a one-time 200 -Nile race Eertelli.

Vernon Palls suffered the penalty of success by havine his handican readjusted. D. M. K. Marendaz nppenred at the wheel of an imnrored MarendazSnecial. the outstanding feature of which, from the point of view of the easual observer, was the very handsome rarliator.

The following brief summary will show how the positions of cars nltered,
lap by lap, during the race: First lapDawson (Amilcar), B. Eyston (AstonMartin), D. M. K. Marendaz (Maren-daz-Special) $\qquad$ Second lap-Dawson (Amilcar), B. Eyston (Aston-Martin), Lewis (Buratti). Third lap-Dawson (Amilear), B. Fyston (Aston-Martin), Lewis (Bugntti). Finish-Lewis (Bugatti), B. Eyston (Aston-Martin), Dawson (Amilcar). The speed of the Bugntti wrs S6.02 m.p.h.

In the $50-$ Mile Mandicap the light-enr entries were rather unlucky, and the principal feature of the race was the mognificent driving of Capt. Madcolm Campbell in the straight-cight two-litre Bugatti. It is seldom that $n$ long distance handicap of this description results in anything but a win for one of the limit men, but Saturday proved the exception and, starting scratch with J. D. Barclay's Vauxbsll, Camphell simply romped through the field-his fastest lap was $111.02 \mathrm{~m} . \mathrm{p} . \mathrm{h} .-\mathrm{and}$ won by a narrow margin from B. Eyston (Aston-Martin), who also deserves every credit for driving a fine race.

Barclay's Vauxhall obtained third place. G. E. T. Eyston (Aston-Martin) come in fourth and MI. Grant (AstouMartin) fifth.

Campbell's avorage speed over the 50 miles was 10 S .60 m.p.h., $n$ record in the two-litre class, whilst Barclay also set up a record at $104 . S 5$ m.p.lf. for the three-litre class.
F. W. Purdy (Bugntti) stopped on three successive occasions hefore he finally retired and dingnosed his trouble. This proved to be a sticking float "tickler," which caused one of his earburetters to flood and upset the running of the engine.

Waite's Anstin Seren and Dr. T. D Benjafield's Frazer-N゙ash also mithdrew. both, strangely enough. owing to the same trouble, namely. the fature of the nil sunply to the encine.

It was a good mace, and Campholl's win was undouhtedly very ponular. The handicapping left nothing to be desired: in fact, during the last three laps there was a considerable amount of excitoment anli speculation as to who would be the winner.

## SPEED TRIALS AT LEWES.

SPPIENDID orgnnization, a very large gathering of spectntors, a biting wind and n poor entry list were features of the speed trinds held by the Kent find Sussex Light Car Club, on the Race Mill, at Lewes, last Saturlay, April 24th. There were 13 classes down on the promramme, but of theso the first seven had to be cancelled owing to insufficient entries. This involved a rearrangement of the awards, and tle Sewell Challenge Cup went to the driver of the sports car to put up the bost performance instead of a touring car driver.

The trials were held over a slightly rising course 700 ynrds in length, standing starts being the order of the ray. Each competitor was allowed two runs in each class, the best time to count. The two separate classes for standard sporting and super-sporting two-senters up to $\mathbf{1 , 1 0 0}$ c.c. resulted in a ducl between the only two entrants, both driving Morgans.
In the first class S. II. Constahle (1,100 c.c. M.A.G.) got away well and beat J. D. Barron ( 1,070 c.c. BritishAnzani) by $44-5$ secs., their times being 32 $2-5$ secs. and 37 1-5 secs. re
spectively. In the super-sporting class S. I. Constable again proved to be the faster with a time of $323-5$ secs.

Five cars ran in the class for stalldard sporting two or four-seaters up to 1,500 c.c. Constable (Morgan) improved on his previous times by completing the course in $313-5$ secs. Ee was followed by N. F. Kevel (Fruser Nash), whose best time was 375 secs. Letting in her cluteh rather too suddenly, Miss Iry Cummings (FrazerNash) broke the spring link of the firstspeed driving chain. When it was repaired she sportingly offered to take
ouly one run，in order not to delay the meeting．With this single run，how－ ever．she swept the board with a time of $293-5$ sees．，next best time， 31 secs．． twing made by Le．llillary（Frazer－ Nash）．whilst K．（ Jomas（Bugatti） took ：tiz sees．over the 700 ynrds．

In the super－sporting class Miss Cum－ mings ngsin mado fastest time． 2 L 3－5 secs．，ngninst le．Hillary nud K゙．（ G ．Jonas．whose times were io secs． and $303-5$ secs．respectively．

The elass for racing cars up to 1,100 c．e．produced only two starters．Lewis Humphries．driving an old－type G．N．， the engine of which be has fitted with lindje four－valse eylinder heads and two marnetos took 30 ses．
13y removing windscreens，hoods，and so forth，Miss Iuy Cummines nnd F ． Hillary converted their Frnzer－Nash fars into＂racers＂to make them eligible for Class 13，which was for racing cars up to $\mathbf{1 , 5 0 0}$ c．c．K．G．Jouns（Bugatti）
ani L．Humphries（C．N．）also competed in this class，but in getting of the mark
 recired，whist ITumphries broke his low－ gear chain，and was compelled in start on second gear，with the resule that he was mable to malie better time than 33.3 .5 sces．FC．Millary proval to be the winner with 2 S secs．．henting Miss Cumminner hy $1-5$ sec．，nal，incidentally， puttiner up instest time of the day，his speed being about 51 m．p．is．

## THE TRAVERS TROPHY TRIAL．

 Austin Seven with Home－made Body Wins Premier Award in Car Class．T
 machine made up the four－whecler entry in the Travers Trophy Trinl liced by the Neweastle and District Motor Club on Saturdns，April 24 th．

The light ears were n Clyno，driven by J．G．Glenton Friars：$n$ smatt four－ menter Rhode，in the hnmes of $\boldsymbol{N}$ ．W＂． Filgar ；and 1s．G．Ihetcher＇s Austin seven，which had an interesting sports boly made by its owner．who had also tuned his engine to euch a degree that he wns succasful in making the lest performance in the neceleration test on Killhope Mill．

In the morning＇s run Peat．Femirith nud Studdon hills caused little diffi－ culty．all the cars making excellent climbs，althounh the three light cars hat to avail themselves of the rule which allowed one reverse on the three hair－pin cormers of Studdon IIill．

It was after lunch at Allandale，how－ －ver，that the real difficultios began，for one eight－mile section included $n$ half－ gile hill with nn appalling surface， which calused 32 motoreycle failures． followed by a bog and two miles of a
moorland track fit only for＂solo＂ horses．Ruts，boulders nud lufts of heather were interspersed with holes and sullies 1 S inches decp，and the rectuired average of 1 S m．p．h．seemed quite hopeless．

On Raise Hill，at the start of this section，Fleteher（Austin）made o really splendid climb，althongh he misjudgct the worst colner and had to reverse，as did Glenton F゙riars（Clyno）nad Lilgar （Ihode）．

The Rhode required assistance in re－ starting and later falleal on the upper stretches in a cloud of steam．The （llyo climbed steadily nnd well，but was unable to cover the section on time． Fleteher（Austin）had the distinction of being the only light car driver to keep to the schedule at this point．
The results were as follow：－Prait ford Clallenge Powl，for best perform－ ance by a four－wheoled vehicle：L．G． Fletcher（Austin．Seren）：speciol nward for best performance of a N゙pweastle Cluh member in n enr：L．G．Fletcher （Austin Seven）；for best performance by a private owner in a ear： $\mathfrak{x}$ ．W．G．

Edgner（Ithorle）．Gold Morlal：L．G． Fletcher（Austin Scven）．Silver
 J．（i．Gilenton Friat（Clyno）

North London M．C．C．Speed Trials．

FClVE light cars and threy Morgans were entered for the－pmed trials hede by the North Lnudon M．C．（．on a private road，near Hatfichl，wh sallur flar．April $\dot{3} 4 t h$ ．liond performanees were made hy F．Fermihough（ $4.51 \mathrm{~h} . \mathrm{p}$ ． Furnihourh Morgan），Who won Class ＂（：＂（sidecars up to 500 c．r．）．cover－ ing the 625－ward course in $2\left(f^{7}\right.$ sees． which is eguivalent to al spmend of $48.4 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. ．and $\mathrm{Wr}^{2}$ ．S．Ibraidwond （f．N．）．Who gained first plame in Class＂J＂at a speed of $50.3 \mathrm{~m} . \mathrm{p} . \mathrm{h}$ ．

Competiters were given $\pi$ rolling start of 20 yards，and points recturind careful negotiation were the lefithand bend nenr the start and the hamp－ backed bridge approaching the finishing line．

Pholographs of the above events appear
elscuhere in this issue．

## MOTORING MATTERS IN PARLIAMENT．

TV11E experted has happened．－The Chaucellor of the Exchequer is to raid the Rond Fund．Necdless to suy． ת master of language like Mr．Churehill was able in his Ludget speech to pro－ duce plausible reasons and a well－ expressed formula for what is，in effect， a new general tax upon motorists．$\Lambda$ part of the income of the Fund will pass into the Exchectuer this year，and for the future the State will definitely allo－ cate to itself a proportion of this impost for purposes other than the improve－ ment and maintenance of the ronds of the country．

The licence duties for heavs motors s．re to be increased，and the Mckieuna duties are to be extended to cover com－ mercial motors．This，put shortly，is the effect of the Budget upou the motorist and the motor trade．
In the course of his speech Mr． Churchill gave an indication of his prohable future poliey with regard to the taxation of motors．For some time，he confessed．he had been study－ ing tho guestion of collecting the bulk of the taxation upon motors throuph the ageney of a motor－spirit tax in－ stend of by the existing seale of licence duties，and ho had discovered that there would be disadrantages as well as ad－ B4？
vantages in such n system．Dut，be declared．the guestion would be perse－ veringly examined，and he＂had not abandoned hope of making the change in the lifetime of the present Parlia－ ment．＂
Meantime，he has confined himself to devising n new and ivereased seale for the heavier vehicles．

Motors said the Cbancellor，ought to pay for the extra wear and tear they cause to the roads，and the light and medium motorenrs and vans do this now．Feary motors，on the other hand， do not contribute their proper share， and he justified the increased duties ou the ground that these are a mere net of justice．

Mr．Churchill opened the part of lis Budget dealing with the raiding of the Lioad Fund with a pasan of praise for the British highwass．This island，he claimed，is bettor supplied with ronds than any other of equal area in the world．So rapidly was the Road Fund growing thint what was estimated in 1920 to produce $£ 5,000,000$ a year would yield next year $£^{2}(0) 1(0),(6)$

The State，he declared，had made iberal provision for the ronds since the war，and the hands of Parlinment must be free to＂jncrease，diminish，redistri－
bute＂or devote the Fund to any pur－ puse it might determine．

Following this generalization，which is ecratan to be lieenly questioned in the subsequent debates，Mr．Churehill aunounced that the State will appro－ priate $£ 7,000,000$ out of the balance of nbout E 19.000, ơ0 now in the Find．

For the future the Exehequer will allocate to other than road purposes one－third of the yicld on private motor－ cars and cycles；this proportion will crintinue．

Here is the formuln ly which Mr． Churchill justifies this nppronriation：
＂We propose that the revenue from motor taxation shall be divided between the Road Fund and the Exchequer on the broad principle that what is raised on account of wear and tear shall go to the roads，and the balance，the luxury or pleasure side of it，shall go to the State．＂

A checring reference to the＂marked and substantial expansion＂of 13ritisle export of enrs and the decline of motor mports was $n$ feature of the lbudget spoecin．

We enmment on the Bubget under ＇Iopics of the Day．＂

## LEA - FRANCIS ACHIEVEMENTS



ROYAL AUTOMOBILE CLUB 1000 MILES SMALL CAR TRIAL
SPECIAL AWARD
manville cup trial SILVER CUP
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LEEDS MOTOR CLUB £200 TRIAL FIRST PRIZE
COLMORE CUP TRIAL 2 GOLD MEDALS
VICTORY CUP TRIAL 2 GOLD MEDALS REDDITCH M.C. \& C.C. WICLIFFE CUP \& 2 GOLD MEDALS

## LONDON - LAND'S END EASTER RUN 3 GOLD MEDALS

 ONLY 25 cars in the 1,500 c.c. class secured Gold Medals this year, of which three were awarded to the Lea-Francis. The strain of the 300 odd miles, including climbs such as Porlock, Lynmouth, Beggar’s Roost and Bluehills Mine. again prove the wonderful reliability and hill climbing power of the standard Lea-Francis which, true to form, ran faultlessly throughout. If you want unquestionable reliability and economy GET A LEA-FRANCIS.LEA \& FRANCIS, LIMITED, Lower Ford Street, Coventry. London Showrooms : 118, Gt. Portland Street, W. 1

Models from $£ 210$

Two-Seater, Four-
Seater Coupé or
Saloon Coachwork.

DEFERRED PAYMENTS CAN BE ARRANCED.

YOUR OLD CAR TAKEN IN PART EXCHANGE.


(1) You are a very lucky individual if you have never experienced a road-side " hold-up"; but are you certain your luck will continue?
True, the "derelict" is rarely seen to-day, thanks to the mechanical excellence of the modern car and the expedition of A.A. organisation; but are you aware that over 4,000 members are " assisted" by the A.A. during a busy week-end?
A.A. Road Service is Real Service and includes Road Patrols, Road Service Outfits night and day, Roadside Telephone Boxes, etc., etc.

A small subscription gives you full command of these benefits together with Free Legal Defence, Home and Foreign Touring Assistance, Expert Engineering Advice, Official Hotels and Repairers, etc., etc.

TO MEMBERS.
The A.A. Road Book of England and Wales, with 860 ltinerarics and Routes, 24 page Map in co'our, Gazetleer, Key Map, etc
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If you are not a member, however, write for booklet " Always Ahead," obtainable from the Secretary :
THE AUTOMOBILE ASSOCIATION, 29, FANUM HOUSE,
NEW COVENTRY ST., LONDON, W.I.

## AUTHORITIES CANNOT SCRAP THE TRAMS!

## SPIRITED REPLY TO RECENT CRITICISMS IN THIS JOURNAL -WHY" "IRAM FEVER" CAN. NOT BE CURED.

> The accompanying article, by Mr. J. Bcckelt, the General Secretary of the Municipal Tramways Association, throu's an intcresting light on the cconomical aspect of tramuay working, but still lcavcs, in our opinion, a very wide ficld for discussion. Inevitably, we contend, tramway ventures must be abandoned, the good of the whole community being placed before the interests of a few.

AN illustration has appeared in The Light C'ar and C'yclecar showing tramway extensions at Coventry. It was printed to enable rou to emphasize your surprise that that city " is actualls extending its system." In the same issue youl advise two cities-Neweastle-upon-Tyne (with a municipal tramways system) and Bristol (with a companyowned system) " to follow the example of other local authorities "--two or three small provincial undertak-ing:-who have decided to scrap their trams. Their reasons for that decision are not stated by you.

No dloult the shareholders of the Bristol Tramways and Carriage Co., Ltd., with a share capital of $£ 1,000,000$ will appreciate your advice. As for municipalities, may 1 ask you one relevant question? Why not advise the two cities to which you refer to follow the example of their enterprising sisters, Liverpool, Leeds, Manchester and Sheflield, who are actunlly at present buying liundreds of new tramcars. These four cities are now spending over $£ 1,000,000$ in developing and extending their tramways. They are doing so with popular approval, too. That should not surprise ansone, for the undertakings are commercially successful. Such facts as these should be faced and dealt with by hostile critics.

The simple truth is that the authorities referred to cannot scrap their trams any more than Coventry can, and that for a number of sound business reasons, which are as follow:-

First, they cannot yet find any vehicle to take the place of the tramear for heavy traftic.

Secondly, after much searching, they cannot find ans cheaper method of conveying their industrial populations who form the bulk of their constituents.

## Costiy Road Upkeep.

Thirdly, they camnot economically substitute at least two vehicles of another kind for one tramcar, thus doubling their wages bill-in other words, adding $£ 22,000$ a year to it-besides increasing the cost of the upkeep of the roads by a sum that nobody has computed, and, withal, forcing up substantially all fares. The figure relates to Coventry.

Fourthly, they cannot economically abandon the cheapest known form of power and put out of action their plant which supplies motive power.

Fifthly, they cannot embark on a "rake's progress" and impose upon the industrial classes higher fares than are now paid by that hard-put-to part of the communits.

The adoption of your advice would inevitably compel Coventry to increase local taxation by not less than


20d. in the $f$, and the present local rates of Coventry are about 14 s . 6d. in the $f$. Just think of it. The Government itself has an Economy Bill in hand in the interests of industry.

Then consider the following:-The cast of constructing and maintaining the road occupied by the permanent way is now borne entirely by tramway passengers. You would put it on the rates, plus the increased cost of road upkeep caused by omnibuses to an extent that no one has ventured to calculate. It would represent in Corentry not less than 3 d . in the $f$ on the rates. Then the permanent way is assessed as though it were a building and pays a considerable sum in reduction of local taxation. This means that everybody else's rates would be increased by $1 d$. in the $£$. Incidentally, these figures disclose the unfair burdens imposed on tramways. What would sou do with the outstanding loan indebtedness on tramways?

## Street Traffic Jams.

I will sas nothing of jamming the streets with traffic. We have the helplessness of London streets always before us and buses are now being ordered off those streets.

You mar as well advise these authorities to blor up their gasworks because of the electricity supply as to abandon the cheapest transport sersice because the bus fills a useful place in a city's road passenger conreyance system.

The City Fathers of Corentry doubtless understand their business. No doubt they have fulls considered aspects of their necessities that have not occurred to the onlooker from afar.

Generally, this country can no more abandon its tramways than its railways or its industries. The tramways are carrying annually two-and-a-half times more passengers than all the railways put together. The proposition so thoughtlessly put forward by irresponsible people to substitute a more costly operated velicle than a tramcar and to throw upon it the annual charge for service and debt redemption now borne by tramways, with all the inevitable economic results that would follow, is one that no sane and responsible body of men can entertain for a moment.
Corentry is rich in business capacity. It rightly believes in self-determination. It is responsible to itself for local government. It is the proud home of the British motor industry.



#### Abstract

He welcome at all times letters sent to us by readers for publication in these columns, and while taking no responsibility for the opinions expressed therein, give preference to those letters which deal with subjects of general interes'. No anonymous communications will be accepted, but the uriter may usc n nom de plume if desired. To ensure publication in the next issue, letters must reach this affice not later than Monday morning We reserve the right to make any alierations or deletions which we deem necessary


# COMPETITIONS AND THE S.M.M. AND T. <br> Further Views on an 

The Sporting Element in Trials.
From the point of view of the valae of reliability trials to the motor industry, I was extremely sorry to sec that the S.M.M. and 'T. had stoped trade competitors from

## A Chance for Amateurs.

uscful information that no one who has closely followed the progress of design will deny the fact that manufncturers have gained much hnnd, I weleome the ban from a sporting point of view, as it will undoubtedis give genuine amateurs, who bave previously been eclipsed by skilled trade drivers, a chance to win the praise they deserve. A. R. L. Ransome.

## The Value of Reliability Trials.

I am glad that n number of your readers lave come forward to express their disagreement with the attitude token by the Society of Motor Manufacturers and Traders with

## Improving the Breed.

 regard to competitions. $\Delta \mathrm{s}$ a private owner who takes a keen interest in every phase of motoring sport, $I$ cannot see why it should not be left to indi vidual manufacturers to decide whether or not they shall tulic part in reliability trials and speed events. It is argued that too much moner has been spent on competitions in the past. I do not agrec. Relisibility trials are merely the open-air equivalent of the test bench, and the more money a manufacturer spends on testing and exper!menting with his cars the better will be the final product.A. Smith.

## Trials Not a Nuisance.

Pro-Ban" seems to miss quite a number of obvious points in his letter regarding the S.M.M. and T. and reliability trials, and what small boys playing fonthall have to do with the question one fails to see;

## A Reply to 'Pro-Ban.'

 but no doubt he is "in the know" on this point. IIe goes on to say that trials are a muisance on the rond; bow stramge it is then that thousands of people turn out to see the compelitors pass and give them a friendly wave or coeer. It is quite news to me that trials are not lawful, as alleged hy "Iro-Ban." Strange neain that the police co-operate so "xomently in assisting at these events, and, incidentally, take a keen interest themselves!With remard to the tost argument, possibly "Pro-Bnn," who stntes ho is no anti-motorist, drives a car which has had its breed improved by these solf-same trinals, or is it that he has one of the makes one very rarely sees in competi$13+1 ;$




## OUIL READERS' OPINIONS (contd.).

## A Cause of Weak Valve Springs.

It may not have occurred to everyone, even with years of motoring experience, that when a car (nesw or used) is left standing for even a few days, it is ndvisablo to give the engine a turn with the starting handle.

> Turn Your Engines. One turn will do. This chauges the compression on the various valve springs. If an engiue is left too long with one of the valves open the continued compression on whe spring is likely to shorten it a trifie, and this reduces the power of the engine.
J. W. Stocks.

## All-night Runs.

"Uncle Joe" must indeed be ancient if he has reached a point when he can no longer enjoy an all-night run. He admits that he can enjoy starting so early from Loudon that he reaches Muidstone by sumise, so
Early Starts
Unpleasant. that, presumably, as the sun is up at about four oclock in midsummer, he has no objection to turning out of bed at about 2 a.m. In my view such an early start as this, with the attendant bother of setting alarum clocks, disturbing the whole houscholil and so forth, makes one feel much urore tired after several hours at the wheel than getting awuy after supper and cutting out the beauty sleep.

Neprev Joe.

## Another All-nighter.

"Uncle Joc," whose letter was published last week, is evidentiy a very wicked old man who drinks far too thuch beer aud suffers from a chronic liver in consequence. Pos-

## Also

Unrepentant. sibly it has been the trials and tribulations of motoring ever since 1904 which have brought him to the need for seeking the medicinal value of motoring and using his ear as a means for "removing the unpleasant effects of over-indulgence in alcoholic beverages." I, like "Focus," am a confirmed and unrepentant all-nighter and hope this letter will be published as an indication that he has at least one champion on this question amongst the thousands of us who read his weekly notes.

Incidentally, when is "Focus" going to describe another of his long-distance week-cnds? I for "one thought that the last one which was nublished-when "Focus" encountered the snow on the Yorkshire moors-was one of the most interesting articles you have published for sereral years. Is a direct result of reading it $I$ attempted a long-distance week-end myself and have since repeated the experiment no fewer than half a dozen times. "Unele Joe" will be interested to learn that I have several gres hairs; I have been a motorist, however, for only eighteen months.

Not Too Old at Forty.

## ${ }^{\text {Tre }}$ Light (ar <br> wio (yclecar

Going along a main Dangerous Driving. London, recently, I was artery within thirty miles of woman driver overtaking nearly hurled into the ditel by a spots-a blind hill-ton of those danger

> An Example
Unheeded. spots-a blind hill-top and a bend. There was a procession of ears coming round, but she passed them all and bore my tecth for a smash, Fortung at such a pace that $I$ set her happened to accelerate fortunately, a car just in front of just managed to accelerate, leaving a gap into which sho just managed to squecze. My passenger, on looking back, saw that she had again pulled out and was speeding downhill besidn the other cars, despite the fact that more vehicles were coming up. $\Lambda$ more careless piece of driving $I$ have not seen for many a long day.

Less than a quarter of a mile farther on I was startled to see no fewer than three cars smashed up at the roadside. Two were interlocked on the grass and the third was in the hedge. I learned that the accident bad occurred an hour previously, and had been caused by one of the drivers attempting to cut in. Now this evidence of the need for eareful driving must have been stark to the eyes of the woman who took such a risk at the very next corner, yet, apparently, it had taught her nothing. It is snid that some women have uu fear. G.A.

Belsize-Bradshaw Lubrication.
In the letter of "Belsize" in the April. 16th issue of this journal there are one or two points about which I am not quite clear. He states that the oil consumption figures given by the makers- 00 m.p.g.-are The Oil-cooler mythical; I take it that he is unable Upheld. to get even this figure, so why is it that by fitting an external oil cooler and backed-off scraper rings I have been able to improve consumption to $1,500 \mathrm{~m} . \mathrm{p}-\mathrm{g}$., and run oil without changing for 10,000 miles?
In renly to his remarks on over-cooling the oil, I do not think that the cooler is efficient enough to get the oil to such a thick state as to cause the pump spindle to break; if this were the case, every time the eugine was started after standing over night a breakage would occur. I admit that a very high pressure is attained in the pump when oil is cold and this was the reason why the makers fitted a Bowden and this was the reason why the makers fitted "Bowed indicator and not a pressure gauge. If cares to examine his car, which I take it is a later model, with a release pipe running to the centre of the tappet inspection cover, he will find another release pipe leading to the oil sump.
How "Belsize" can use his extra-air lever when the car is running at about 25 to $30 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. with a very small throttle opening I fail to see. I suggest that if his carburetter will stand this it is time to have it properly tuned. Up to the present I have not noticed anything unusual in the wear of present eylinders in this type of car. P. H. DIocketr.


The Surbiton M.C. organized an excellent meeting at Brooklands on Saturday last. A full description appears on another page. Above are three of the winners. (Circle, left) Mrs. Geor ze D.ller, (above)

## OUR READERS＇OPINIONS（contd．）．

## Foiling the Car Thief．

In reference to the remarks re＂Car Thefts＂on page 653 of your April 16th issue，may I point out that no expensive combination locks are needed，and no great inventive in－

## A Few <br> Suggestions．

 genuity is required to prevent theft in the ordinary way？All one has to do is either to（1）remore the stecring wheel；（2）remove the carburetter float；（3）remere the magneto contact breaker（in the case of magncto ignition）．To carry out（2）is a matter of seconds，and in the other eases the operation takes about a minute．Any one of the thire will effectively prevent the car being driven awny under its own power，although I admit it misy not linder the thief from picking it un and carrying it away under his arm．T．Moward Redfern．＊Although the suggestions of our correspondent are ＊excellent in theory，how does a motorist dispose of his steering wheel，carburetter float or contact breaker while he makes a brief business call？－Ed．

## The Land＇s End Results．

A careful analysis of the results of the Land＇s End trinl shows that although the 1,500 c．c．cars entered may have been＂strects ahead of the classes immediately above and below＂it is unfair to claim such a

## Our Remarks

Criticized． mperiority for the elass in general．The 1,500 c．c．cars in the trial were mainly expensive touring cars or sports models． The nopular car of about 1.300 c．c．，costing f225－£235，was very poorly represented，two of the best－known Pritish makes of this type not having a single starter．On the other land，the 1.750 c．c．and 2,000 c．c．elasses were repre－ sented by a few ears，on an average cheaper than the 1,500 c．e．cars entered．
The only safe general couclusion to be drawn from the Land＇s End trinl is that success in any class can be obtained only by ears and drivers above the average in quality and skill－and this is，$I$ suppose，the object of its organizers．

1，307 C．C．

## Poor Ferry Service and－

Amongst those who have made the journey by road to Full，and reached New Holland，to take the ferry across the Xumber．there are surely many who have been irritated by the expense and delay in getting

## －Excessive

 Charges． cros．The following is an actual ex－ perience．I left London and was due in Hull at 5 p．m．New Holland was reached to find the Cleethorpes N．E．R．Ferry due to sail at about 6 o＇elock．At $5.4 \overline{0} \mathrm{n} . \mathrm{m}$ ．I was permitted，after much red and green flagging．to＂walk the plank＂with the efr down a narrow platform－cum－footway not much wider than the average width of a car，at a speed of $4 \mathrm{~m} . \mathrm{p} . \mathrm{h}$ ．Pedes－ trians had to clamber up baulks of timber at the side of this causeway to allow a car to pass．The jetty itself resembles Hampton Court maze for corners and twists，and finishes in a slope as steep as Brooklands test hill－this slone being larsillel to the vessel－with a sharp right angle turn to the boat．The fun started when getting the ears aboard．It must be dangerous for a novice，and $I$ ，after getting parked hard up against the vessel＇s starboard side，watehed the anties of the crew and shore staff in＂helping＂nthers on board． The boat and the quay were not designed for speedily ship－ ping ears，hence the trouble encountered．

With the last car aboard we left New Holland with a slight list to the port side．Reaching Hull in reasonable time－about twenty minutes was taken for the crossing－we had to wait some little time for the boat to be warped to the crane side，and for the crane and＂mats＂to be made rendy．

The order of disembarkation was first＇car aboard last off， and of $7.25 \mathrm{p} . \mathrm{m}$ ．we were on shore at the Hull jetty，and then charged 1 s ．Gd，for erane focs．The ferry fare for a small 11 h．p．two－scater was 8 s .9 d ．and 6d．passenger fare for me－enough to par，in all conseience，for a twenty minutes voyage ：but to cap it with a charge of 1 s ．Gd．for the cranc at Hull jetty is ont of all reason．
I sugest that the N．E．R．overhauls the ferry arrange－ ments at New Holland and IUull，and provides proper means to cmbarb and disembark at a reasonable sill－in cost，for the ；rowls of those being transhipped would have interested the directorate，to soy the least．

G．R．Richardson．

Replacing Austin Seven Valves．
As comments frequently appear on the difficulty of re－ placing the split cotters on Austin Seven valves，it apparently is not willely known that there is a simple method of doing

## An Easy <br> Method．

 this without any special tools．I had oecasion to remove the valves of my Austin Seven recently，and profiting by previous experience $I$ looked for an easier method of replacing them．I found that by slacken－ inl each tappet as far away from the valve stem as nos－ sible，I was able to replace the cotters at the first attempt． I did the whole job，ineluding the readjustment of the tap－ bets，in less time than one valve had taken on my previous effort．I have found your paper of great interest and utility for a momber of years now and wish you continned success．

E．S．＇Phornton．

## CONDENSED CORRESPONDENCE．

Mr．C．M．Colnbrook nrites in praise of the service he has received from Messrs．Vernon Balls，2⿹\zh26，High Strect， Fulham，London，S．W．，who have carried out lis repairs in a prompt and efficient manner．
In the coursa of a letter on motoring conditions in South Africa，Mr．H．Duncau Abraham says that in the wilder parts of the road from Durban to Port Shenston the Zulus took a great interest in his Austin Seven，which was greeted with shouts of astonishment and amusement．The natives were used to large cars but，to quote his own words，＂the Austin tickled them properly．＂
＂B．C．M．／M．E．T． 7 ＂writes to say that he does not agree with our recent remarks in farour of dipping hearlights，as they reduce the nvailable driving light and do not entirely eliminate dazzle．He informs as that a glare sereen which is scientifically designed to cut out the lights of an oneoming car without obstructing the driver＇s view of his own side of the road is shortly to be put on the market．

## INFORMATION WANTED．

Crouch．－An instruction bnok of the 1022 ？h．p．model is wanted．－S．E．Wilson，Martinique Darracks，Bordon， Mants．
Rover．－Readers who are willing to lend or soll an in－ struction book of the S－h．p．model are asked to write to－ A．W．Carpenter，5T，Talma Road，Loudon，S．W゙．2．

Swift．－The loan of or opportunity to purchase an in－ struction book dealing with the $10147 \mathrm{~h} . \mathrm{p}$ ．two－seater would be appreciated．－C．Herbert，116，Lavender Lill， Tenbridge，Kent．
Ownens＇experiences are wanted with regard to the re－ liability，accessibility and wenring qualities of the following cars：－ 8.3 h．p．Renault， 7 h．p．Peugeot， 7 h．p．Towett， 7 h．p． Citroér，and $10 \mathrm{~h} . \mathrm{p}$ ．Salmson．－A New Reader，Oak Dale Park，Pool，Wharfedale．
Belsize．－An instruction book dealing with the 1024 9.8 h．p．o．h．v．model is wanted，and any information witis regard to the prevention of oily plugs and excessive oil con－ sumption will be appreciated．－J．James，Messrs．J．James and Son，Commerce House，Cwmfelinfach，Mon．

## LOST．

A Morgan chain was lost between Lamenster and Bolton－ le－Sands on $\Delta$ pril 1Sth by Mr．John S．Law，14，West Street， Morecambe，Lancs．，who will be glad to reward the finder upon receipt of the chain．

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MORGAN AERO MODEL. $£ 130$ cash, or $£ 32-10-0$ down and 12 paymenta, w th option of a specia rebate.
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## WE CAN GIVE IMMEDIATE DELIVERY





We invite readers to send us hints fained from their own experience for inclusion in this feature. Five shillings will be paid to the sender of any hint published, but we cannot undertake to return contributions not used.

## Protecting Road Springs.

In the albsence of spring gaiters, excellent protection for road springs cau be obtained by the use of old $\Delta$ rmy puttees and $\Delta$ merican cloth. Before fitting auy covering the leaves should, of course, be cleaned and thoroughly oiled or greased, preferably with a lubricant containing graphite. $\Lambda$ puttec or any similar material should then be cut into strips about I in. wide and sonked in oil, after which the strips may be bound tightly round the springs and the ends tied sccurely in position with thin tied
string.
This will Feep the springs well lubri-


Showing how the springs are bound after being thoroughly smeared with oil or graphite grease.
cated, but is scarcely sufficient to prolect them from mud and water; an outer covering is therefore mecessary, and Ameriean cloth is admirable for the purpose. It sloould be cut into strips as before, but a slightly greater width to permit of more overlan, when it is bound on the spring, is desirable. String, insulating tape or small straps may be used to keen the ends from unwinding. If the exterior is finally given a cont of good shellac varnish the springs should not require further attention for many months.

## Care of Wooden Garages.

Unpainted wooden garages must receive a cont of prescrvative on the outside at least once a year-two coats per annum are even better. Ordinary creosnte scrves admirably, is easy to apply, looks well and has moderately good weatherproofing qualities. It should be purchased by the gallon and laid on generously, but evenly, with a whitewash brush. It takes only a few hours to dry, and any creosote left over will keep almost indefinitely if securely corked.
A "single-lined" garage does not require a single-lined" garage does not

Inside; the outside impregnation will protect the wood right through, but the inside matchboarding of double-lined structures should be given a coat of paint or, at any rate, a coat of flat.

## Mending a Torn Leather Coat.

$\Delta$ tear in a leather coat can be quickly and neatly mended with the aid of adhesive medical tape. $\Lambda$ strip of the tape should be placed under the tear and the torn edges carefully placed together and firmly pressed on the adbesive surface for a minute or so. The width of the tape required will naturally vary with the size and nature of the tear, but if the repair is carefully carried out the mend should be almost invisible.

## For Beginners.

When driving a car away from rest the novice is sometimes at a loss to know whether the front whels are locked over or pointing straight abead. This does not, of course, trouble the experienced driver, who is able to "feel" the position immediately the car starts to move, but in the ease of the beginner, who is apt to let the clutch in rather suddenly, a damaged wing may result if the car is near any object. A good plan is to mark a point on the stecring whecl which will indicate the "straight ahead" position to the driver. $\Delta$ small piece of paper stuck on to the
wheel will serve the purnose very well, as it does not get in the way of the hauds, and may easily be removed when it is no longer needed.

## Keeping the Bendix Drive Clean.

On some cars the electric starter is placed in a rather exposed position, with the result that the quick thread of the Bendix drive becomes clogged with dust or mud, thereby preventing the stiding pinion from engaging with the tecth on the flywheel. If this trouble occurs frequently it is a good plan to int a metal shield similar to that shown in the illustration. The method of attachent to the starter will naturally


The suggested shie'd for the Bendix drive. It is held in place by three screws and is useful on cars where the starter motor is in a more than usually exposed position.
vary with different makes, but it will generally be found that it can be held in position by set-screws. $\Delta$ hole will have to be cut in the shield to clear the teeth on the flywheel and allow the pinion to engage. If the owner does not feel equal to making the shield himself, the work may be done by a tinsmith, whose charge will in all probability not exceed two or three shillings.



#### Abstract

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


C.J. (York).-Your 10-23 h.p. Talbot should be capable of about 50 m.p.h. in top gear.
B.D. (North Shields).-You will do no harm by warming gear oil before pouring it into the rear axle of your par, so long as you do not carry the car, so farther than is necessary just to thin the oil.
C.P. (Eastbourne).-The overhead valve gear of your $192512 \mathrm{~h} . \mathrm{p}$. LeaFrancis should be oiled every 250 miles. Take off the cover and pour oil into the rocker bearing holes, preferably when rocker beat is ranning. A wick absorbs the oil and forms a reservoir for it.
P.D.Y. (Fastleigh).-The chassis number of your $11 \mathrm{~h} . \mathrm{p}$. Standard will be found on the top of the steering column.
O.F. (Gloucester).-The cause of a rear wheel wobbling, when the wheel itself is perfectly true, is generally a bent axle shaft.
C.A. (Liverpool).-The small charge reading on the ammeter, of which you complain, is probably due to a dirty or worn dynamo commutator.
R.R.K. (Torquay).-The front-wheel ball bearings of your $11.4 \mathrm{~h} . \mathrm{p}$. Citroën are of the ordinary journal type and are therefore not adjustable for wear.
R.K. (Croydon).-You can easily wire up an instrument-board lizht by taking one lead to the positive and one to the negative " battery" terminal in the junction box. In this way the light will be controlled only by its own switch.


## BEVERLEY CUP" DATE ALTERED

We are inlormed by Mr. F. II. Chambera. the hon. secretary of tho Suaricy and District Motor for enra and threc-whechers bas boen alierced to May 29 his

## THE BIRKENHEAG AND DISTRICT MOYOR

Thir Birkenhead and Districe Motor Club ran olf its first amatcur reliablity trial on Aprit Welsh The courso was 100 miles $1 / 2$ length over Welah ronds. which wero new to the completitors slarter at Two Miles" farage, whilst 35 managed to folinh at tho -. Shrewsbury Arms. Ono of tho best yerformanges of tho day was
pre up by Reid (Morgau) who was very last on the byile

## PDRTSMOUTH DISTRICT JOWETT CLUB.

Thr second ralls of the acason of tho Porta mouth Disfrict Jowett Club will bo held on assemble ti Emsworth Square. The cars will learo ae 11.30 n.m for Whiteways Iodge, ncar Arandel, rif Fairmile liothom. A picnic lunch will be held aud this will bo lollowed by tho clado with a picnio lea and a club run homo via Cowiray Park and Goodwood Valley for those who care to tale this roand The hon. eservelars, Mril. Pinilord-Donnc, 7 , Aston Roud, Ronthae will bo pleascd to forward particulare mouth district who world core to join.

## LONDON EAGLE MOTOR CLUB.

On April 24th tho club had a very euloyable run to Alms lill, near llcales Nembery amuscd themerlpra during the mitornoon by climbing the 1 in 3 gradient. mont of them
making good ascenta making good nacenta. Alhiouth tho weather alter lea, chen to was obrious that there would hold a trial in thio Guildiord-Miladinead dastrict and tho exganizers will be greatio asulsted if intending entranta will send ctivir enerica, accompanicd by teo of 2 s . od. to tho secrein ch. Tho trinl will bo a mboleday event over open to all fulls pald mincribers of tho club.
 styet, J'adíngton, London, W.

## KENT MOTOR CLUB.

A Morfan driven by E. Macgowan, loat onty one mark on time. add stopped in 36 it. in crar pertormance In the reliabsility trial of tho 18ih. Elarting irom Aewingrece. the routo lead rla Eltham Valley Lo Canterbiry thenco hhough Fiveritham, Ashford and Now Romacy a nizht (rial, slarlingent 12 midnight, May 1nt. Irom Ashlord: the coarse bolng about at the finlsh. Margate. The awarda loclude a at the findsb. Margate. The nwards focludo a silerer cup. to bo won outright. and medala Ron and Bofey lifl Climb: May 301 h , Tcam Trial. The bon secretary of the club in Mr C. F. Stoke, 20, Kene Avenue, Ashford.

## OXFORD MUTOR CLUB

Tho sorial scaenn of Lho Oxford, Mntor Cinb. the president of which is Mr. Wi R. Morrls wombers will aacmblo at Cowley pince. mind dalen Bricire, nt 6.5 a.m. Brakiat will be 6.45 a.m. The onening reliablity trial at the season frim Whirather Bridge, orer $n$ crurse in the Chilitern Milln. Threc-ule to competo. Golfore complet timn aro boing arranged amongat tho membera the organization of this section being in the hands of Mr. 1R. J. Pigolt, 41, Cornmarke Streel. Oxiord. On May 23 ith eiennis touras
 handlinok will Le sent to any mitorist whe ar pirates. Oxford.
B54

Tho R.A.C. bas recently issued the following ne:mits i-Closcd May 2nd, Norfolk M.C. SnortCounty Mc.o. Reliabity Trial. Mas 15 h Onco and closed. Juno 19th, Yorkshiro $\wedge \mathrm{C}$ Galthurs Specd Trials.

## FORTHCOMING EVENTS

April 30-May 1
Ealing and District M.C. London
Holylicad Trial.
Western Centre A.C.U. Reliabllity Trial, Race at Magilligan Strand. Coventry Trianglo JI.C. IKun io Lutter North London M.C.C. Invilation Trial.
Osforel M.C: May Moraiue leun and Te Kent liability Nirial. Nírial.

May 2.
Callord and District M.C. Rua, to I.iverpool Me Reliability Trials. ice-chairman's Oozelnm ir.C. Social Run. Uxoriclge M.C. Rcliability Trinl. Eufield and District ML.C.C. Social Tun Nortolk M.乞. Enorting Reliability: Trial.
London Eaglo II.C. Sporling Erent. May 3-8.
A.C.U. Standard Stoch Motorcyele Trial May 8.
Public Schools M.C. Weekend Run
Esacx M.C. Broahlands Mceting.
Jecins. Centra J.C.C. Social Weckend Coventry 'Irriangle M.C. IRun to Compton Norlh London M.C.C. Faper-chese.

May 9.
Corentry Trial M.C Reliability Trial. Catford and District M.C. Run to Cimm-Belaizo-13radshaw L.C.C. Reliability Tria Tho l'enga Rhin.
Oozelum M.C Run to Starrecrow Mill Morgan M.C. Run to Maldoo.

## SOUTHERN JOWETT LIGHT CAR CLUB

A rally was held by the Southern Jowet ong at Beeconsfield and drising to the mect fiop Ilill for a picnio lunch. Ein route to Missenden an imprompto hill-climb wes beld, in which R. Litt took firsh prizo in the fuaror second piace. In tho to food lein for second place. In the two-tcaler clars wera Giss and, ?aecond respectively. Nineteen cara took part in tho ran, which added yet another to tho well-organized, enjoyable and lonruughly succoanful scries of tho Southern

THE LIVERPOOL MOTOR CLUE
The Jirerpool Motor Club has now fasued $n$ prospectua in connection with lis weottish lide from May 2 dat to 24 th . Tho tour is beling run in wo naturo of a falrly casy rell ability trlal for whlch silver cups, nllver medals and certlacates of merit will bo awarded. Memtho South-westorn Mifhlauds, including Argyll Perth. Silrline. Dumbarton and Dumirles, sha tho Banks of Ioch Lomond. The monntains of Argyll, the Falls of Lenv, the Troancha. Inveraray and Stirling Castles. Bannockburn and
en on. Thero aro two scales ed entry fec:No. 1. for club racmbers 15 s. for ollier enirants 20a. Nn. 2 for cluh members 5 of nther rom Mr. S. Doward, 9, Ashbourvo Arenuc, buandellsands.

TWICKENHAM MOTORING CLUB. Club toose run of tho Twickenham Motoring reridezvous " being Burnham lisechea, where a, larga numbir of membera gathered. A Mis 9th and full detaila ean bo obtalned from the hon. soiretary, Mr. C. F. Wunt, 51, West-
morclaud Load, Harnes, S.W.1 3 .

MORGAN MOTOR CLUB
Tho following fixtures lava been arranged
for mombers of tho Mlorgan Dlotor Club:May 9th. Social Itun to Malden. lissex Club:at corner of Lea Mridgo Road and 1.ower Clapton Road. at 1030 n.m. Juno Gih, Rreasuro


## BIRMINGHAM HOLYHEAO RESULTS

 The following are the light car awards in hour Birminghifa-Molyhcacl-Barmingham etrial Jordison Trophy: J. C. Chappendale (Morgan): fargreavea Tropliy, T. II. Ehorthouse (Aston


## TAUNTON MUTOR CLUB

The opening rum on Sunday. $A$ pril 18th, ol hbout 80 members and friedils making tho jour. hergo influx of usembers and chere is now every
 May 6th. Members lave consented to assist in


BELSIZE-BRADSHAW L.C.C.
Tho firct rally of tho season of tho Belsize
 un to ihe llogs liack. $\boldsymbol{A}$ start was made soon after 3 p.fa, aud tho routo chosen was
by way ol Cobliani and Woklng. Siter tea the members relurned to London. $\Lambda$ relialality lrinl will lako place on May 9 th, slarting fram Membera aro rumbuded that enfrica close on
Meaday. Miny Jrd.

## A.-C.U. STOCK MRHINE TRIAL

 Threc Murgans bavo ben, entered for thoAuto-Cyclo Umon Six Dayg slandare stock motorescle trial. whioh harts froth lirming han on Monday, May 3 rd. The coursc, whlch is approximately 750 miles in length, is of a neluded, andentyeven observed hils will be ascents of 25 ol those in urder to mave clican a gold medal. Jhe machires whied have been entered aro now bang selected from the manucial, and will he bauded over to their drivers for runusug-in and adjustonents.

## D.DM.C RALLY

The opening rally of the Disabled Drivers' Motor Clab, held on Saturday last at Combe atiended ovent fet held by the clulis the best spcaring competicion was won by $\mathrm{Mr}_{\mathrm{r}}$ and Mrs. Brough the lady spearing bolh the rings in the guickest lime Tho stopping and start jng raco wha won by Mr and Mrs. Mompetitions wero followed by ea at tho Whito Ilfarle, Sundridge. whero a feial leg which is beld by ueither shoulder trap nor pelvis band. The comfort of this can. of course, only be fully realized by a disabled man. An from Anril 30 the tha office of tho ifampton Wick. Kingston-on-Tharaca.

## THE BOL DOR.

The nnnual 24-hour race, kuown as the Bol dority growe steadily in importance and popuregarded in France as tho bigcest genche car and cyclecar cyent of the year. The Bol dor takes place at Whitsuntide, which falle this sear oa May 23 rd and 24 th. It will be run orer the usua coursc, which compriscs a closed Iaris. As tho Saint-Ccrmaint-Germain, near clally recognized by tho Automobilo Club do France, there is always a possibility that 24. hour world's records may fo establiahed durThe liol d'Or is arranged by tho Aasociation didly organized ovent and large orowda alwaye inno tho $G$ kifom. ooursc. At last ycar's mectwho dinallecaligory record whs broken by Dore Who, driving a 1.100 c.o. Séechal, covercd finished 2 very, carb actually elaricd and 21 race, farliculars and entry forma may be eblained
 Ronto do La Revolic Sovallorílerret, Scino,


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## AROUND THE TRADE．

A striking poster showing a woman driver ordering her supply of oil from a bulk cabinct has been issumel by Shell－ Mux，Lutu．，Shell Corner，Kingsway，Lomdon，W．C．2．
＂A Scottish Tour＂and＂Cars of Repate，＂two tnstefully prepared little books，will be sent gratis to interested readers of this journal who npply to the Newaham Motor Co．， $243-245$, Manmersmith 1 isad，Londun，If．（；

The Pattern Makers（Engincering）（\％o．，Lud．，Shrewshory
 car described in this issue，are also sluccialists in signs． mblic notices and so forth．made of aluminiun，bronze，cast－ iron and other metals．

The Three $\Lambda$ riow Oil Co．．Letl．，＇Prafalmar Ifonse，Water－ 100 Place，London，S．W．1，who market＂Olesblit\％＂lubri－ cents，have issumed charts of recommendation dealing with以ritish，American，Italian and French ears．Readers are advised to consult the apmroprate list to matie sure that they are using the correct arade of this lubricant．

Mr．G．II．Westentr，M．B．E．．has recently joined the flaft of Messrs．（Fordon England．Ltd．，3S，Felaham Latd，loutney Loudon，S．W．15，and we are also informed that nwing to the rapid expansion of the bodywork business，（iordun Eneland， servien of the Palladium ear to Messers，Ewen and Sons， 77T，Jinclley Rond，（iolders Green，London，N．W．：．

Thie Vacuum Oil Co．，Lid．，Caxum Louse．Westminster， Loudon，S．WV．1，lawe added another oilang chatt to their list；it deals with the 11 h．p．and $1: 3$ h．p．Clymo models． The charts now published cover the following makes of light car：－Singer，Rover and Clyno．Other charts will shortly be issued in connection with the Jowett，Niat．Humber anil Citruen light ear，the chart being sent post free to owners on application being made to the nbove address．

Messrs．Mebes and Mebes，14t，154－15G，Great Portland Street，London，W゙．1，have been appointed sole distrihutors of Gwyune enrs in the following counties：－London，Middle sex．Essex．Berks，Lucks．Bedford，Lient，Surrey，Sussex Merts and Itampshire．They will also be the sole suppliers of spare parts in the areas already referred to．In the near future there will be a full range of models on view in the firm＇s showrooms for both the trader and public to view．

We bave received revised tyre price lists from 1）avid Moseley nud Sons，Chapel Ficld W゙orks，Nriwick，Mau－ chester；Linglebert＇Tyses，Lit．，1G2，（ireat loorthand Strect， Loudon，W． 1 ；the Palmer Tyre，Led．，100－106，Cannon Street， London，E．C．4；and the Cioodyear＇lyre and Rubber Co． （Great Britain）．Ltd．Chelsen Wharf，Lots Rond，Loudon， S．W．10．Iepresentative cxamples of the new prices are as follow：-710 mm ．＇by 90 mm ．high－pressure cover $\mathbb{t}^{4} 4$＇S．，


－RIMVDIS．
What may be towed to－morrow should be repaired to－day．

LICHT CAR PROVERBS．－No． 17.

The winner is
Mr．H．Roberts，
2，Green Strect．
Huddersfield．
The prize of £1．0． 0 will be sent to him in due course．His proverb is quoted below the subjoined drawing．


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 (The wise man will not buy on appearance and "ones own judgment" reqarding condition. Leave this matter of great importance to us and
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klta
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finithed chronce body, red winga and whecls, very aporty and ottractive
 ROVER "8.". $1921 / 22,2$-acelce Sports,
dyname lighting. finithed royal blue

 GWYNNE, 8 hip 1923 Chummy
Model. jynamo lighting and plarter. apiendid finall, yycre in excellcn siondi-
 Mny. 1925. 3-3.enter. dynamo liahting.

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nition MORGAN i9923, $8 \ddot{\mathrm{~h}} . \mathrm{p}$. Wi.C., do Luxc. dynamolishting, all-weather equipped,
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very fast nnd anarty car 10
COS COVENTRY PREMIER, 192?, 2- ecater and double dickey, dynamo lighing.
apare wheel, thorouchly overhauled dynamolighting end self-atarter, sood tyres. exceptionally nice condition $\mathbf{A . B . C . , ~ 1 9 2 2 , 2 - b e n t e r , ~ R e g e n t ~}$ A.B.C., 1922, 2-acater, Regent Model condition, fast and thoroughly reliable
 CIIROEN 1922. 75 h.p., 2-scater. pirtically cqualio above, $\mathbf{8} 5710$日 ISIZE BRADSHAW, 1922/23, 2 -seater. dynamo lighting. theroughly overhauled, Eood tyres, exceptionally smart, finighed Royal Blue ... 555 2 more in almoat equal condition EAS ROVR uood tyres, very attractivety finished. good tyres, dynamo lighting, apeedoAnother similar to the above 55710 Another. 1923'4 $\quad \because \quad 10$ W.C. dymamolightine filled with head and side lamps, apeedometer, mechanical horn, very sood iyres, new hond. very fant and attractive .. .. §46 G.N., 1922, 2-acater, sunken dickey. dynamo lighting, full dash. new hood. all-weather curtaina, very reliable


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when in buying your Caror in seeing about it-you IIIIII deal with people who are known to carry big and varied stocks, always. Ample stock and the widest possible choice for their customers has ever been the keynote of AllenBennett's Policy. Therefore, if you are seeking a house where you can see plenty of cars, and, having made up your mind which of those you will buy, can depend upon earliest delivery-you will find your needs will be well and truly met at AllenBENNETT'S. And in other respects too-for instance :

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## LIGHT CARS AND CYCLECARS FOR SALE

A.B.C. A.B.C. Motors, Lid., Walton-on-Thames. Consult us frat balore purchasing second-hand cara. We have always sevoral in stock, recondi-
tloned, with which we give our usual guaranteo. A.
B.
C.

Latest model super snorta 2-seater, with ritreaming aluminfum body dynamo llyhting, clock, speedometer and other accessories an extra ordinarily fast and relliable 2 seever. Ask for fulfer particulars, exi95. Lalest model asa ahove, nearly new, f225.
B. S. Marshall, Ltd., $17 a$ Hanover Square, W.1. Mayfalr 5906-7.
 branchea by arrangement. A. B.C., 1922 , taxed for year, snorts model. sclf-atarter, new lyres, nice Condition,
Masfair 4792 .
 A.B.C., 1932, Regent, dynamo licheing. just completely overhauled, new Sorerad other $A$.B.C. cars in slock, all overhauled and in firat-ciass condition; cxchangen. Below.
Ward and Co., Si Upper Richmond Rd., East Putney. 'Plone $2818-19$ A.BC. Sprosen, Led., for A.B.Cs. Exchanges, deferred. 1926, new.
 A.日.C., 1921, polished alnminium 4-seater, clectric starting and 11 ght ang. tyra another ronrly new. tho whole in boodendid condition new to any trial and examination will climb Alm's llill or Porlock with
 $\begin{array}{ll}\text { A.B.C.s } \Lambda \text { real snip. See pago } 32 . & 701-953\end{array}$ A.B.C. $1921-2$ 2-scater, dickey. sell-starter. 255. Bartletts. 93 Gt . A.B.C. Gordon England racer. with touring bodv and wings 1925 enLine. Lwin-carburetiers, $£ 105$ or near offer. D. 31. K. Marendaz.
Brixton Rd., London. A.B.C., 43 gulneas, special sports, 1921, recently fitted with Auater double windscreen and air rents, eahances the appearance considerably, tax pald, ready for anything. splendid opporlunity; exchanges, delerred Ohiswick. W.4. 'Phono 0303 . A.B.C. 1922 Regent 2-seater, dicley, completely mpipped, excellent condition. 70 guineas exchanges or delerred H. F. Edwards. 175 Gt .
Portland $8 t .101 .936$
 A.c., 2-seater, 1924 model, excaptionaliy nex condition throughout. one Upper Richmond Rd., East Putney. A.C., 1921, 11.9 bp coupe, British Anzani engine, very cemplete equip. ment, painiwork and tives excellent, recently greshauled by makers at
 A.C.s. A real snip. See page 32. 701-951 A.C. $10 h p$, 2-seater, electric light, good tgres, $\& 45$. 2 Bickles Rd. A.C, 1924, 4-scater Rogal, balloon tyres rigid ${ }^{3}$ - equipment, Mrres hearance taxed, s175; exchange or terms. Below.
A.C. 1923 l losal 2 -scater, very amayt car and mechanically merlect, axcellent equipment, sear's 13x. fi35: exchange or terms. Chester Michall, Stourclitio St. Edgware Rd. Padd. 3553. (Fourth turn rifht
from Marble Arch.) Always open.
 A.C.' Always 60 used cars in stock, including AC. All backed by our cll-known guarantee Exchanges or delerred eerms. Th Light Car Co.. 404-414. Euston Rd, London. Phone. Muzerm 3081. 701-8 Ac., late 192 r. Royal 4 seater, 11 hp . leather upholatery, adjustablo font soats, slarter and iull equipment and many extras, quit and ind Sisold A.C. 11.8 hp 2 -seater, starter, repainted: ferms. All and 10 monthly Motors, 49 Green Lanci, Newington Grecn, N.16. Clissold 6628 . 909 AC., 1923, 12 hp , Royal 2-scater, in rerv aice order f135: alsn 1924 nice condition. £75. Newnham Motor Co., 243-5 Hammersmith Rr,
W. $6.01-80$
A.C. 192311.94 -scater, completely equipped. rear screen, 135 guineas excellent coudition. Below
A.C. 1922 model 11.9 coupe, dickey, completely equippid, excellent rondition. 108 guineas; exchanges or delerred. H. F. Edwards. 175 Go
Portland St. W.l. Langham 4161 .
A.C. 1924-25 2.seater and dickey, blue model, l.as been carefally used by one driver slnce new, open to R.A.C. inspectiona price 2135.767
Fernles Rd., Balham. A.c. 1922 4-seater, self-starter, dynamo lighting, balloon trres, A.-w.
equipment, $£ 75$; exchanges, deferred. King, New ild., Oxford. $701-880$ A.C., 1923-4, 11.9 hp , Ecll-starter, dyammo, 2 -sesier and double dicker, upholstered in antlque leather, £izo. 69 St. Paul's Avenue, Willesdon Green, London.
ALBERT car overhauis; guaranteed cure for oillng up; bodywork and epares. Sccond-hand Abert cars bougbt and sold: advice and eatimatea Iree. Gwynue Cars, Lid., manufacturcra of Gwynde cars, in succession co
Givynac's Engineerling Co., Ltd., Church Whart. Obiswick. 'Phone. 1780 Givynac's
ALBERT, 1921, 11hp, 2-scater and dickey, dynamo and starter, finished


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


 ALVIS, 1922, 11bp, 4 scatec do luxe, nll-wenther screcns, klarter, clock.

 Manclester. Cral. 8539 .
$701-825$
AMILCARS.
Crnon Balls. 'Phone, 1995 Putacs.
Ycrnon balls. 1.0 ndon.
AMILCAR zervice.
25 IIich St. Fulham
z2z-3U
AMILCAR, 1924 sporis 2 scater, electric light. scll-slarter and dypaius,


 AMILCAR 2 -seater. 1922 , dynamo lighting, side screens, and bood, just
Te-corerd, receusly reyninted, good condition througbout, 57710 . 51
 AMILCAR, $1922,7.5 \mathrm{br}, 2$-scater, Jjelcy, cream bods, red wing fon

AMILCAA snork, 2-scater, rery fast, fó5. Below. AMILCAR grand sporss, 1924 nodel, pressuro lubricalion small mile

 AMILCAR, ${ }^{1924}$, 7hp, 2-scater noorts model, blue, black wings, shock
 Ka South Villas, Camden Square, N.W.1. Thone, North 3838 , 701-w146 AMILCARS. A real snip. Sce page 32 701-952 AMILCAR, Graud Sports. July, 1925, dgnamo starler, four beadlames,

 AMILCAR.
Boon and Porter, Lid,
Other tho lollowing guaranted second hand models:-
$1925-26$ Grand Sport 2 beaters, choion of 2 ,
$1925-26$ Grand Sport 2 -realers. choim of 2 , Irom $£ 20$
1926 Super Sports, 2 -seater. small mileage, 185
Nelerred termband exchanges.
159-1GJ Castelnau, Earnes, S.w.13. 'Phone, Riversido 1177. 701-879 ARIEL, 1Ohp, coupe, late 1925, excellent condition, $\mathcal{L} 135 . \quad$ Sangster.
16 Ootton Lanc, Moseles. Tel., Sonth 1131 .
 703-w766
 ARIEL 9, 1923 lale), very little uscd, yew condition. Intest improve$703 . \mathrm{w} 766$
 ARIEL 9, £55, 1925, chummy उ-seater. dsanma ligbllng. a very neat and compact-looking car, with a spondid periormance excharges, de Rd., Chiswick, W' 4. 'Phorio 0303.
ARIEL 9, 1923-24. chammy model, self-starter, ctc, in oxcellent Gercatham 3440. prico 256. 701.898 AUSTIN \%, new and second-hand mrdels In Reck: part exchanecs and Teleptone. Kensingtod 8572.
AUSTIN 7. Sersice station open lo all owners of the famous model;

AUSTIN, $7 \mathrm{hp}, 1925$ model, large lgros, mpeedomeler, windscrecn wiper, mirror, shock alusorbers, dashlight, painted rich maroon, eplendid con-
dition, any test, tased, £105. Fryer, Uttoxeter.
$702-364$
AUSTIN, 7hp, 1924, coachpalinted dark bluc, scll-starter nri lighter, Fryer, Uxtoxeler. AUSTIN, 7 hp, 1923 , rey, all-weather equlpment excellent condilion, AUSTIN 7, 1925 , c98: iatcet new byo models in gtock Austin distri butors.
AUSTIN 7, 1924, starter and lighling, overslzo gyes and lo really nimo

A USTIN 7, sports, late 1925, equal to new, many extras, fitted Triplex
 AUSTIN 7, 1924, family, sperdometer, very small mileage, licensed for Ynar. in praclically vew condition. £95. Wilson, 7 Eccleston St. Vic
Soris
7066 .

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

AUSTIN, s.8. 10s, chummy model, lull equipment. antomatic winer, Austin 7. We have several of theso acliable cars to offer, from ${ }^{7} 595$





 AUSTIN, 120 guinens, 1924 (lato), Thp sportu, as new, very fast and AUSTiNe 160 guineas, 1922 , Marley, 12 hp , as new, short mileage, or Axchango tor 20hp Alislun car Kedrick Newn, Suth Kensinglon StaAustin 7,2 brand-new latest-tyno enrs in stock for immediate delivery. Austin zo 1924, chumms, compiete, dynamo liphinge, electric sharter,

 Ausrin 7, 1925, blue, mirror, screen wincr, mals, suart Tixi. Tully
 AUSTIN. Sprosen. Itd., for Austins Exchangess, deferred 1925 7 hp special snorts, aluminium bonnet, carchully used, one owncr faxed,


 AUSTIN, 7hp, iate 1924, oversize Dunlop cord iypes, recently filted AUS8
AUSIN, 7hn. 1925 model, delivery September, 1924, exvellent con
 AUSTINS. A real snip. Sce page 32 701-954 AUSTIN, 1925, Thp, chumry, as gew, © 107 10s. IBarlletts, 93. Gt. 701.57
Portiand St. AUSTIN. Always 50 used cars in Etork, including Austin. All backed
 AUSTIN. Jones Garage, Slighlly used 1926 Austin 7, makers gnarantee, LiJs. The nbore car can be seen at Jones Cinrace, Stroud Green AUSTIN 7, 1924 model, thock mbsorbert slepmats, las panifor ycar
 AUSTIN 7, 1.926 model, chummy 4 -seater. sell-starter, specdometer. con6684 Wostern.
AUSTINS. We can ofler best valuc lor money. 1925 , splendied cond

 AUSTIN 7, late 1925, bloc, many extras milcage 3.000 . exceptional condition, rear's lax, fing. Pickwarth and IIull, 107 GL . Portlant
701908
GL. Wangham 1998. AUSTIN 7, 1924, ECll-starter, מearly new Dunlops, tnxed sear, reprinted,
£85; exchagee, delerred. King. New Rel., Oxlord.
701-887 AUSTIN 7, 1924, electric starter, Laxed jear, $£ 92$. З3 Normandy Rd.. AUSTIN 7s. Call, write or 'phone. London Allo-Sales Co. for new or second-hand, only s25 down. The Broadway, Mill IIill, N.W'7. 'Phone, AUSTIN 7, 1924 and 1925 chlimmy and sports models in gramantecd Enod condition, 6, from E89. Gordon England, Lid., 28 Soulh Molton
St, Oxford Si. W. A.V. rumalouts, fully cqulpped, periect condillon, from 235. A.V. A.V. bicers, geating accommodation 2 adults and 1 child, good running ordor, from f28. A.V. Matorn.
 BELSIZE-BRADSHAW, lale 1922 de luxe, 2-3-scater, clock, specdo-


BELSIZE-RRADSHAW. A rcal snip. Sce page 32 701-955 BELSIZE.BRADSHAW 1923 sports 2 -scater, aluminium and maroon,
many cxtraj, $£ 52$. Laurel Collage, Iver, Bucks.
701 -w 717
 BELSIZE-BRADSHAW, 552 10s., 1923. taxed, repainted, fell-biarter 241 South Norwood 1íll, South Norwood. Sydenham 1424. 701-w839 BELSIZE-BRADSHAW, late 1923, 2-3-seater, and dickey, dynamo light


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








 nngham 4161






 sention


 Rucher body. nimicd orange and black, built or and accomplishos some epeed f 150 , Jerred payments, exchanges. D. Raillon and Co., 6 Obapel St.
$701-826$


 525


 CALCOTT 1924 10.5 2-acaler, dicker, mans extras, lyres as new, inxed

 CALTHORPE, 1922 (lnte), 10hp, 4 -scnter de luxe model, antique axed. 77 guincen: exchanges, extended payments. Mears and Hishop. CALTHORPE. A real snip. Sce mage 3?. Riverside 4191-2. 701-957 CALTHORPE, 43 guineas, 4 -sealer, dynamo lighting. very fulfr equipped scratehrd, appenrance exceptionally athractire and absolutes lato ownors hobbs. ithe nride and joy of his life, a
 CALTHORPES, 219234 scaters, de luxe, antique leather upholstery.
 CALTHORPE, $E 65$ exchangas, deferred pasments ${ }^{1} 920-21$ 4-seater, 1ghting, atarler, allwenther equipment, exce!lent condition. Senbidge.
35 Ilanaler Rd., Fast Dulwich. Sjicnbam 2452.
T01-802 CALTHONPE 1922 2-scater, dickoy, fully equipped, coupe hood. excel-
 CALTHORPE, 1921 A.senter, self-starter dynamo lighting, spare wheel,
f45: exchanges, deferred. CALTHORPE, $192 \bar{S}^{\text {de }}$ luxe 4 -scaler, lenther upholsters, good all-weather qumblicnt. Stalion). 701-874

 $\begin{array}{ll}\text { citionens. } \Lambda \text { real anip. Sce pagar } & 701-915 \\ 701-956\end{array}$ CITROEN, 1923, 4-seater, Ilhp, blue, starter, £77 1Os., exchances, de$32^{4}$ )3. 701-727 CITROEN speciakala and distributors. New and second-hand cars alwags | in sLock: deferred payments our speciality. Old Welsh Ilap Garage. |
| :--- |
| Phone. Headon 102 J . | CITROEN 19257 elover-leal. 5.000 mike onis ells; 1920, 10.4

 Instalments. Lamb's, Lid., opposite 1 Foe St Station, W'alhamstow: 387 CITROEN specinlisls and distributors. New and socond-hand cars always in stock inderred mayments our speciality. Old Welsh Itarn Garage
'Phono, Ifendon 1023 .

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

CITROEN, 1925, 7.6hp. 2-scater, balloon tyres, excellent condition. £82 CITROEN, $1923,11.4 \mathrm{hp}$, apecial sports 3 -seater, built regardies of onst, nited most handsomo body, hared wings. Vce windscrean, 6 wire wheels,
 CITROEN, 1925, 11.9hp 3-seater, lalloon tyres, execlient coad!tion,
 CITROEN, 11.4 hp 4 -seater, 1925 , selistarter, balloon tyres, tazed. exceptional condltion, 2105 exchangea, laslalments. $11 a$ Rumey Rri.
Stockwell Rd. Brixion 4129 . CITROEN, 19257 conpe, balloons, excellent condition, f95, cash, terms. excbange. Nlery and Bernard, 344 King's Rd., Cbelsea, S.W. $701-806$ CITROEN, f55, exchangé, deferred pasments. 1922-23 2-seater, 7 hp .
 CITROEN, $75 \mathrm{hn}, 1923,2$ seater. starter, taxed, had Litte nse, only ling and shation 701 -w 767 CITROEN 7, 7924,2 -scater, IIghling and sharting. taxed, recenty rom 51 Upper Richmond Rオ. Fast Putncy. $701-\mathbf{7 5 5}$ CITROEN. FOOMT Lid.. Inave acveral Citroens; Jargains. 5 Heath CITROEN, 1926, 11.4hp. English borls. 4-seater, painted blue and blua upholstery, indistinguishalsle from new, mileaga under 600, taxed and insured to end of gear, a genuiac bargain, £185. 152 South Ealing Rd. Ealing 2983 , CITROEN. 1 Sooth Ealing Garage. 192511.4 hp 4 seater touring, painted bluc. starting and lighting, laxed, fulls enuipped, in very gooil
order thronghout, \&80. 152 South Ealing Rd. Ealing 2983 . $701-786$ CITROEN, 1926, 11.4 , Finglish body, 4 -scater, new, 100 miles, owncr
 CITROEN, $£ 77$ 10a., 1925 model. 7.5 hp , 2 -scater, 3 speeds and teveric. dspamo lightiog. electric starter, interchangeable wheels, balloon teres, all nceessories, inclidilng bood, sido curtains, elcctric born, mirror, specdomeler, ammeter, ased and maintaincd, the tyes are nopuncinred, and the spare bas not been uscd; appearance and mechanical condition guaranteed an ne throughout; lax paid, ready for immediate ure; csil, eveninga. 239
Goldhawk Rd., Shepherd's Bush, w. 12 . 701 * 706 CITROEN 1925 coupe, 7 hp . sclt-starter, lighting, apecdometer, balloon tyres, cle. rery small mileage and in new condition throughout, eselicut car, 97 guincas: exchanges, extended payments. Mears and Bishop, CITROEN 7.5 conpe, 1924, repainted, £85. Ratellife Bros., 200 Gt . 701.764 CITROEN, nearly new 192511.4 de luxe 4 -geater, complete and in magni日cent condition. el35: exchanges or easy terms. Cummings. $10 \frac{1}{7}$ CITROEN. Always 50 used cars In atock, including Citroca. All backed by our "ell known Euarantee; exchanges or delerred terms. The Light
Car Co., 404-414 Euston Rd., London. Phome. Muscum 3081 . 701-10 CITROEN, 192511.4 hp . Eng!igh body, 4 seater. dsmamo nod starter,
 CITROEN, $1924 \quad 7.5 \mathrm{hp} 2$ seater, atarter; terms, f8 10 and 10
 CITROEN saloon, II.4hp. Fnglish body, excellent condition: terms,
 OITROEN, 11.4 hp . 4 -seatcr, excellent condition: terms, f8 10 , and 10 monthly jiyments of 28 IUs. or cash $£ 85$. Others. $\$ 75$. 995 . and

 CITROEN, late 1924, 4seater English body, balloon tyres, rear acreen, Es new, 2120. Blaxton's, 21 Swallow St.. Piecadilly. W.1. Gorrard
$701-864$


 CITROEN, 1923 , 10hp, self-starter, 75 guineas, Sce bclow. Denman, a Denman Pl., Piccadilly Circus. Reg. 986. 701-930 CITROEN 19257.5 coupe, completely equipped, brlloons, excelient conCITROEN 19247.52 -scater, completely equipped. excellent condition 75 guineas exchanges or deferred. H. F. Edwarda, 175 Gt. Portland CITROEN, $£ 55,2$ geater, 1922 , orerhauled nnd repainted, tax paid, ightiag. alarter, trial. Parkes. 2 Mexander Rd., Richmond. Surrey. | 701-w86 |
| :---: | CITROEN, 58 molneas, $1923,7 \mathrm{hp}$. 2-seater, starter, all-meather cquip ment, starta easily and runs exceptionally mo!l, a smart little car: ex Ohisnick, W.4. 'Phoas 0303 . corg smart and distinctive car, splendid condition: exchanges. dolerred CITROEN, 1925-26 October deliveryl, clorerleaf. 7bp. self-starter, toole


 CITROEN, 11.4 bp . English body. Aggust. 1934. complete throaghout and almost now rondition, any trial given, f 100 ; exchanges and terms.
5 Putnes Bridge lid. Wandsworth. Putney 2728.

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

CLYNO, 1926, 2-2cater, Iront-wheel brakes, 4.000 ming, in wew condthion
 CLYNO, 1925 2-scater, rigil all, meath. r equipment, small mileage, e97 10s. New Susex Motori, $332-334$ kinks Rd., Chelsid, S. $701-859$
ington 2540 . CLYNO, 11 hp de luxe 4 ecater, late morlel, self-starler exceptional coht Brixton 4129 . CLYNO 1924 10hp 2-scater, $£ 95$. Gcorge Newman and Co., 309 Euston CLYNO 1924 (latr) 4 -scater, C.A.V. starlct and lightimp, n w. fittings, in tip-top mechanical order, paint, splendid bargaiw; 697 IUs; ; mehatigu
Austin $701 \cdot \mathrm{w} 72 \mathrm{~L}$ CLYNO Royal 4-sealce, 1925 iAprill, blue 3 door body, lenther uphol

 CLYNO 1935 (July) 2-scater, double sunken dickes, sell-3tarter, specto ments. 22 Pennani Mews, Firl's Court 6684 Western. 701.568 CLYNO. Always 50 used cars in stock, including Clyoo. All hacked by Our well-kaown Euarantec: exchanges or delerred erms. The tohit Car
 COVENTRY.PREMIER. Flachley Motors olfer 1922 2-scaicr, doubly
dickey, dynamo, liconsed, excellent coddution, 245.
132 11igh Rd. COVENTRY-PREM1ER 8, 1922, 5 whels, dyzamo, dickes, Just re COVENTRY-PREMIER, J-whecler. dynamo llfhting, dickey, new tyres TMATO COVENTRY-PREMIER 1922 awholer, dynamo lighting, difhey, bew Cowdrey lRd., Wimbledon. 701 -w801 COVENTRY-PREMIER, 1922 2-scaters, sereral to chooso from, Dynn
 COVENTRY-VICTOP. South Ealing Gnrage. Specially built Coventrs Victor 3-whecler, all-aluminium bods, manyextras, only run a fuw miles,
$\times 110$. 152 Souti. Ealing Ral. Jining 2983. CROUCH, 2-neater, watercooled, 3-specd, reverse, electric lighting,
recently coachpaintid, in Eood order, C19, room wanted. Morchon, 166
Mlumstead Common Rd., S.E.18. DEEMSTER, $1920.21, ~ 10 h p, ~ 2-n e a t e r, ~ e x c e l l e n t ~ c o n d i t i o n, ~ i n x e d, ~ i n ~$
nured, fSO. Haldado Motori (Private). Walhara Yard, Eustaca Rd
 DEREY, $1923,9 \mathrm{bp}, 2$ seater and dickey, dynamo Lghtiug, self-starter
fine condution. $£ 20$ spent on overhaul. prico $f 70$. Breakspear Gnrage fine condition, \& 20 spent on overbaul. prica f70. Wreakspear Gnrage
lligh Rd. Whetatone, N. Phone, Finchley 0906 . DIATTO, 8.9 hn 1923 , (Mag), de luxe 2-seater, double dickey, coach, meather equimment. disc., ctc. photo, trial, inspection willingly na nou
79 gns. 3 Upper Grore, South Norwood.
$701-x 918$
ERIC-CAMPBELL, 1924, $10 h p$, 11, litre, 2 -seater and dickey, in really haveled, paint and upholntery as gcod asers, ing and sharting, many extras, including shock nbsorbers. 40 mng. SS during business hours Cleskenwell 600 。 or write Box No. 3745 . co The Istive Car and Cyelecar.
EAIC-CAMPBELL, 10.5 hp , 2 -seater, sports sil-aiuminlum body, very smart In appearance. dynamo lighting, in excellent running order. any
trial or examination. $\mathcal{L} 60$. S Selburat Rd., South Norwcod Phone trial or examination. $\mathcal{L} 60$. J Selburat Rd., South Norwcod 701 -w 851
Thornton Mcath 3222 . ERIC.CAMPBELL, 1921, 2-scater, dsnamo. anare wheel, sood cond.tion
 ERICCAMPBELL, brand new (shop soiled), 1926,1230 , super-sport
 ham 4161 . ERIC.CAMPBELL 1921 2-seater iports, 10.5 hp . 3 apeeds and reverac bpare whecl, aperdomeler and usual equipment. aluminium bodv. etc
licuensed, last. $£ 35$. Teddington Garaga, 160 High St, Teddigion
 FIAT cara. Accredited agent Moore's Prosto, North End and TamFIAT. $1921,10-15$. 4-scater, cxcellent condition, \&95. Bartlett's. 93 FiAT, 10-15, saloon, 1ate 1925, balloon tres, taxed December, \& 265 Hlaxion'd, 21 Swallow Elo, Piciedilly, W'. 'Phone, Gerrard 3518.9. G.N. 11. R. Godtrey. the original designer and manufacturer, for tho best G.N.s Belowing to purchase a G.N. wrilo for particulars of reGuilt G.N.e in guaranteed condition. Bclow
C.N. Many reliable socond-hand models also in atock at reasonablo prices.
Lisi on request. H. R. Godirey Motors, Manor le, Richmond. Phong G.N. Vadum Co. premicr anceialista in overbauled G.N.s, with 2z2-372 fuarantec, offer the folowing from their wido rango:s55. Superb emi-racing 1922 , special polished aluminium bory, reid Winga, wheelg, upholatery, bigbefriciency engluo with farlined oferhead spotight, shock aboorbera, ctc., phenomenal acceleration, docilo is
 f39. Very late 1922 , renainted, osersmo tgres.
£45. 1922, body in pollshed aluminium and bluc. crimson wheula aod
 Saturdaye Vadum Co.

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THE MOTOR REPAIR MANUAL " I-cr the Owner Driver and Amateur Mechanic. 2s. 6d. net. 3s. 9d. post free

## SECONDHAND <br> light cars and cyclecars for sale (continued).

SECONDHAND

## LIGHT CARS AND CYCLECARS FOR SALE

 (continued).JOWETT, 1925, 2 -seaker dynamo lighting, balloon tyres, excalicnt condition, smau mileage, elvo. Kent, 5 Brwbanc Terrace, Liskeard, CornJOWETT, 1924 (July). 2-reater, dickey, self-starter, balloon tyres. tar paid, recently Mçainled, excellent condition throathout, £100) Ifenry

 JOWETT, 1925, 2 -sealor. nlizter, specdometer, splendid condition, $£ 98$. Cash. Verins, exchango. Allery and Bernard, 344 Kin E s Rd. Chelzea, dowert 1920 2.scaler, djnamo lighting, tayed for jear. 235. rovate, JOWETT apecialiat. R. G. Gamble For guaranteed hargains. 1925 4-scatcr, balloon tyres, taxed, exiras, ei 25.00 .
1622 2-soater, dickey, in really good condition. f75. Hill, Crystal Palace. 'Phone, Sydenham 3379. 701-903 JOWETT 1924 2-seater, dickey, halloon tyres. starter, taxed jear, per-
 JOWETT, $7 \mathrm{hp}, 2$-seater, dickes. 1923 model, dynamo, speedometer, etc. nico littlo car. \& 67 10a, deferred terma, exchanges. Many other makes.
Modrow's Motor Mart, 151 White Hart Lane, Baraes.
$701-919$ JOWETT, 79 guincas, $1924,7 \mathrm{hp}$, collpe, self-starter, aluminium body, a distinctivelooking Car, with a splendid perlormance: exchanges, daforred,
easiest of terma. Enpiro Motors, 525 High Rd. Chiswick. W.4. JOWETT, 65 guincas, 1922-2J, Thp, 2-scater, side scroens, good' tyres, splondid appoarance and condition, very comfortable littlo car; exahanges. delcrred, easicst ol terms: 2 siso 30 o
Id. Chiswick W. 4 'Phone 0303 .
LACONDA, three-quarter coupe, absolutely as jears, £12S. Delolords, North Row. Pork Lane. Open 9 to 7 . 701-777 LAGONDA, a!l-weather, 2-seater, dickej. very xmart, in spiendid condsS.E.20. LAGONDA, 1923, o-soater, dickey, do iure, starter, beantilul condition,
 LAGONDA 1922 coupe, smart, peliable, self-starter, dickey, e50. Den-
man, 4 Denman Pl., Piccadilly Circus. Rezent 986 . LEA.FRANCIS, 1924,2 seaser, nace condition, small mileage, any trial, $\pm 105$. H. Beart and Co., 102 London Rd. Kingaton-on-Thames. $701-821$
 MARLBOROUGH 10 hp 2-scatcr, itarter, dsnamo, good tyres fally equipped, taxed, smart little car, nearest 227. Hall, 68 barraw
MARSEAL 1923 2-scaters, 4-cylinder, 3 specds, reterse, self-starters -lamp sets, in really good condition deferred terms arranged. \&68, Hart Lane. Bi.:nes.
MARSEAL, 1924, 4-scater, 1 ard s., repatnted and overhauled, $£ 100$ or
MATHIS. $\Lambda$ real snip. Sec page 3 ?. $701-960$ MERCURY, 2 -scater, dickey. 9.5 lip, aplendid condition, late 1921 elecric throughout tyres as new, 550 or nearest ofler. Bird, 139 Watkin MIDLAND car, 1922, 7-9, water-cooled, 2-aeater, with dickey, spare MORGAN Sersice Depot. Official sppointed repairers by the Morgan hand machines alкay: in atock. Trade supplicd. Official agents. Hamac 243 Lower Clapton Rd., E.S. Clissold 2408. 261 Ecclesall Rd. Shef MORGANS. James and Co. (Shefleld), Ltd. 261-7 Ecciesall Rd., Shefhand machincs pearly alpays in stock. When in dificulty telephone Central or wire ." Tact Shefteld MORGAN Servico Depot. Hall, 91 St . Peter'a St. St. Albans. Tel. 636. Appoined offial repairer by Morgan sotor Co. 1914. List of newzand
used Morgans sent on request. MORGANS, ncw and second-hand; cash, exchange, deferred. Wc buy MORGANS in stock for immediato delivery. Clark's. 223 MammerMORGAN. Cass's PCotor Mart, Lid. fEstablished 1211.$) 1925$ ared December. 3 months guaranieo. 95 suineas: terms, exchanges. $701-723$
Warren St. W.1. Maserm 623 . MORGAN, 1924, £77 10s. 1925 family model, air-cooled J.AP., E95. Theso cars can be purchased on easy payment terms, quarter down and St. Station, Walthamstow. 387 Euston Ri. N.W.1.; 50 İigh Rd. Wood MORGAN, 1925, Aero. Blackbutne oh.v. w.e. engine, chassi- in Arre號 \&.w.b., B. and D. shock absorbers on rear springa, hood, s.s. tyrea blue paintwork and plating kept in sood
MORGAN, 1923, 8hp M.A.G. engine. samily model. dynamo itahting ood condition $£ 75$. Exchanzes, deferred pagments. Parker's. Lid. radshawgato. Bolton: also 246-252 Desnsgate, Manchester. 701-699
 MORGAN, do luxe, Juiy, 1924 , 8hp J.A.P Lucas dsnamo lightioge, nem gres, spezdomoter, driving mirror, tax pald for year, parfect condition gun lubrication fitted, overhanl cost $\mathcal{L} 15$, accept $£ 80$ or near. fenuine Rd.. Thornton Ru., Croydon
MORGAN de luxe. 1924 . Cowey. Tenlth. han
condition, f 90.1 Gwsdor Rd., Beckenham

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

MORGAN, Acro, 19.26, all red, as brand acw, speclometer, shock all Phour, 8.S. 4yres London Wall.
MOAGAN, Grand Prix, 1921, Bhr JA overhauled, now hood, enecial windscrece, latest typo bevele new chaine gooll tyres, any trial, \&47. Stark, Weatwood. Temjlo St., Bushlord, Sinke.
on-Trent. MORGAN, f35; J.AP. a.-c. engine and magneto recently overibauled Jighta, iaxed inaured, can bo acen $12.30-1$ oclock and 5.30 to 7 MORGAN, Junc, 1925. da luxe model, water-cooled J.A.P. englne, dise Whecla, apecdometer, £105. EN. Linakor, Rocklea, Frodaham. 701 -wi 174
MORGAN, 1924, Acro, 8 hp J.A.P.. dynamo, apecdometer, aplayed wings, Very Eood tyres, reconclinainte
MORGAN apecinl racer, 1Ohp, 8-valvo anar-sporta Anzani enginc, como pleto liody, plaled, dynamo lighting, etectrio horn, apecdomoter, gradion meter, hood, prace outsido kcar change, tyres cxcallent, looks simply MORGAN, I921, Grand Prls, 8hpi, water-cooled J.A.P., completely MORGAN apcelallats. Cash or doferred. Naylora, 45 and 406 Gniratt MORGAN, 1905 Grand Prix, dsnamo lighting, speedometer, rere good MORGAN 1924 701-x915
 MORGAN, w.e. J.A P. engine, elcetric llghting, gcw trres, Intc proporty maymonta and oxchanges. Andrewn Motor Mart. 151 Whito Mart I.ane.
Barner,
MORGAN, 79 gas. 1924, family model. Lucas dynamo llflifig. goodi tyrct, aplendid condition. Exchanges. deferrcd, easirat of terma. Empiry
Notors, 325 High Rd., Chiswick. W.4. Phone 0303 . $701-979$ MORGAN da lnxe, M.A.G., $\pi .-c, 710$ by 90 tyres, dynamo, hood cover, Sonth Norwood. (Private.) 701 -w 867 MORGAN, 1923, Grand Prix, w.ec. Anfani, dynamo liphtlng, new orer-
 MORGAN, Sprosen, Ltd, for Morgans. Exchanzee, delerred. 1925 1926 Acro Noola equipment. £95.
 MORGAN, family model. J.A.P. enpino, smart appearanco, runs splen-
didly, $\mathcal{C} 55$; exchenges, delerred. King. Now Rd. Oxford,
$701-889$ MORGAN rmnabout, J.A.P. enginc, reliable littlo ear, $£ 22$ : cxchannrs.
$701-890$ MORGAN rinabout J.A.P. engine, old model bat runa well, £14.cach.
 MORGAN, 1922, ponular mond. T.A. P engine, rums aplendidy, $701-892$ MORGAN, 1925 Acro made, o.h. ishinckburne, water-cooled cabinc, £110; exchanges, deferred. King. New Rd., O:ford. excentionalion-893 MOPGAN, 1925, choice of 2. with Blackburne or Anzani engines, balloon or high-presimen trres, Aero tyno, rerv fast and in excentionnt
condition, taxed, from \&ion. A. 2 Cliredon Rd., Twlekenhem. $701-883$ MORGAN, 1924. Aero dynamo llghtine, sear'a tax, perfect order, $\boldsymbol{\text { L }} 95$ oxchange or terms. Chenter Mighall, Stourclitic St.. Cdgware Hd. 1’add.
5553 . (Fourth turn right from Marblo Arch.) Alwaya open. 701-852 MORGAN, 1923 Grand Prix 10 hp MA.G. englao, dynamo, apecdorneter


 millago, $£ 100$. Maudes , 100 Gt . Porlland Bt., Londcn. 701-837

 MORGAN do luxe, 19258 hp . water-cooled. J. A P. overaizo thects and
tryes. ajecdometer, running boarda, tox paid, mileago 3,000 . as new, KgO. Below. Mindscreen, 2 pairs all-weather ecrecns, diac whecla, fax paid, falo. Below. ruvnlng boarda, recentls orerhanled, \&65. 6. Mall, 91 St. Peler. St.
St. Albans. MORGAN. Routh Ealling Garage. 1924 Grand Prix. Oh.r. Anzant, regiatered, 2 Almost new trren, ser. fino condlion throughont faf.
152 South Ealing Rd. Esling 2983 .,
701.781 MORGAN do luxe, 1923, a-c. J.A.P. speedomreer, disce, toola faultMORGAN, 1921. de luxe. Fido body, paint excellent, perfect order: offere. MORGAN, 1922 . Inmily model $10 \mathrm{~h} p$, w.e. M.A.G., fulls equipped, per-
919 Morgan, aporting medel, 10hp M.A.G., E.v., fully equipped £47 10a.: delerred verma arranged.
Homac's Sreclal Morfan Ecrrice Depot, $243-7$ Iower Clapton Rd.. F.B.
'Phone, Clisaold 2408 .
MORGAN, 192d. Blackbarne onginc, taxed, insured, 265. Wareing,
Church St., Preaton, Iancs.
701-w797

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

MORGAN. Sprogen, Lid., for Morgang; oxchangon, doferred. 1924 do
 MORGANS. Exdinngas, deferred pasmonts. 1922 family model, w.e...
 Sydenham 2452.
 Kent


 MORGAN, Acro, 1924 . $=$-c., overbauled makers March, new tyros, olec
 MORAANGP. 1924 dybamo. spmedometcr. sellow. fino conditinn. $£ 70$
 MORGAN. Aero. Anzani, 1925 , delivercd July. muraza 3.000 , malnt and


 1924 de fuxo J.AP., sood condition, orerhauted thoroughly, guaran-
 soint Morsan. We manitain an oxpert elall sololy for Murgan orerthnyth
and ropairr.

 Jowsey, Austin Friars, Scarborough
MORGAN. IA.P. a -e., 2 gents at rear, dark blue laren hocil, Boech
 stoke.



MORGAN, Acro, 1926, doliscered April $141 \mathrm{~b}, 100$ mllmon ony, Minck


 MORRISOXFORD do laxe 2 -seatcr, spare whel. Wx. \&9, rellablo NEW CARDEN, $192 A$ gmodol, 4 scater, fanily model, olectric lifhting.
 NEW CARDEN, 1923 and 1924. 2-seatera and lamily models, nraill bine irom tor tho family man eith 2 chlldren Fully
 NEW HUDSON, 1903. 3-whecler, delachahlo and anare wheln dynamo
 NEW HUDSON rumaboil. water-coiled MA.G. engino. Enlendid condi-
 PERRY Thr 2 -ieater, dsammo. sound order, 23 gulncas. 'Phnce wim.

 Plione, Maida Vale 1032 .
 BE日EPEUGEOT, R16; excellent condition: any trial. 44 Kow Bridig


 PEUGEOT, $7 \mathrm{hp}, 1525$, 2-scater, alarier, dynamo lighling, 5 balloona, Alock, Epecdomater, 2s new, taxed. fllo. White, 67 Aldernoy Si- S.W. 701 .w 895 FENAULT, $1925,8.3 \mathrm{hn}$. 2-senter, excellent condition, $x 135$ ficorce Newman ańd Co., 369 Euston Rd., London. RENAULT, 1925 gin coupo f.wh. balloon tyren, spare Whect unaed.
 RENAULT,
George Nerman
and
B.

 lond new. R156; deforred pasments. 21 Pennant Mowi, Ear'g Court.
6684 Western.
$701-967$ RHODE, 1925 , Indintinguidhablo from new, luxurloualy equipped. many
extra. Particulara. Jenkin, Church Sq., Bodmin.
$701-u 5 i 8$

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






 19 lilowng



 ROVER 81924 de lure 4 scatcr clock, aprecdometer, all-weather equip
 ROVER 8, 1924 de luxo 4-5cater, |eather upholatery. clock 701 -74





 gate, ibollon: also 246.282 Dcangalic. Manclicster.


 nOVER 8, 2.sealers, choice of 3 , dynamo lighting, sido sercen, foll
 reccutly overliauled specdometer nir valve, sood nint. mechanically almost as new, C55; 3923 . finishcd bult, cxcellent naint and condition Uscaghout Car Dent. Middleton and Wood Buildings. Miry Lane, Wighn.
H'liouc, Wigan 1072 . HoVER, 1926 g-20hp, o.hir. aports 2-acater, prartically unsoiled. dynamo lizhrin, drcasc-zun lubrication, Dunlop cord balloon typraging. spare whecland tyre, disappearing hood, side curtaios. doublo windscreon. Smithespecdometer. Sinith's clock. 5 Lucas iamps, electric born, windscreen wher,
 Mampstead. Thone, Mampstead 8421. HOVER 8, 1922, 2scatcr, dynamo lighting, englnc orerbnulcd, recoachprinted, perflet conditinn: d58 cash. Apply between 7 and 8 mm
88 Camden Mews. N.W.1.
$701-w 140$ ROVERS. A real snip. Sce page 2 . 701-961
 ROVER, 1923, chummy model. 8hp, dynamo lighting, completely orerROVER. 1922 , 2-scater io luxc, leathor upholstery, excellene moelinn
 don 2041 . and 406 Garratt Lanc, Marlsfield. S.W.18. Phone, $701-55$ ROVER 8, $192 \bar{J}_{\text {, }}$ 2-seater nod dickes, dsammo lighting. orersizo Rapson ROVER, Gun 1926. sports 2 seater and dickey. msleaze 2.600. condi. tion liko ncw throughout, s175. Henlss. 91 and 165.7 Gt . Portland
St. W. Wi.59
 29 Downham lid, Dalston, N.1. Clissold 7061 . Sce Miscellaneous ROVER, 1926 model, Shn, sports, in new condltion, f185; 1922, 8hn, in exceptionally nice condillon throughout, 260 : exchangea or delerred suutn 3081 . ROVER 8, 1925-4, chummy, complete and ready for immediate uso, amart, and in perloct condition, barigain, 560 : exchanges or easy eermal
Cumblige. 102 Fulham lid. S. W. 3 . ROVER, 1924, 8hp. 4-gcater, terma $£ 8$ 10s. and 10 manthlv payments of f8 10s. or cash 285 : also chummy at e75 and 1925 tycater at
 ROVER. Alwaya 50 used cars in atock. Including Rover, will backed by Co., 404.414 Euston Rd., London. Phone, Museum 3081 . Light Car RoVER, 1924 , do luxe, 4 seater in maroon new hood exceptlonalif ine

## SECONDHAND

## LIGHT CARS AND CYCLECARS FOR SALE

## (conlinued).

GOVER, 1926, 9-20hp, 4-reater, 4 door, Jufly eqnipped small miluga, han 1998 .
 C65; all fully cquipped and bargaina deferred terma aud exchanges
Andrewr Motor Mazt, 151 White llart Lane, Barnes
$701-920$ nOVER 8, 1923, do luxe 2-scater, dickey, leather upholntery, clock.
 ROVER, $1922,8 \mathrm{hp}$, 2-sciter, dickey, djnatao lighting, nide screcns sperdoructer, hace eall December, mang extras, excellent canditron, ets ROVEA, $81 \mathrm{p}, 1923$ 4. 2-neater and dickey, \{o beautifl condition, 245 S. Math Liven, London.

ROVER 8, 1921 (late), 2-scater, dsnamo llghtige, apara wheel
 $2562 . \quad 701$-w857

 ROVER 8, 39 guibeas, 1922-23, 2 -seater, dickey, cxcemetonally smurt
 ROVER 8, 1921. 2-scater, doublo dickey, dyamo, spara wheel, fully enumped, mang extras, plendid appearance, guaranteed pericet order Hiord.

ROVER 8, vary lato 1921-22, dicker, specdometer, djnatno lighting.
 ROVER 8, ${ }^{3922}$, engloe orerhauied, recoachpainted, periect candicion.
 ROVEA 8, 1922, new hood, repainled, good tyres, recently overhauled. кjuccomecer, dashlamp, sido acreens, 208. 92 Lakehad Kd., Benahan ROVER. Sproscn, Led., for Rovera: exchangom, deferred. 1924 lull A-scater, rigid curtains, unscratched, Enaranteed, 70 suincal. $701-816$
Portand St. W. Whone, Langham 1212 . ROVER B, 1923 chummy de luxe, ballocme. cleck, epecdometer, repainted.

ROVER 8, 1924 2-scater, dickey, starter, specdameter, excellent condi-
 HOVER, £45. exchanges, delerred pasments, 1922, 2-scater, 8hp, dgnamo lighting, rigid all-weather equament, pare wheel, taxham 2452 .
 Rover 8,1922 2seat 6 ROVER, 9-20, 2-scater de luxe, 1925. lealher upholstery, mileage 5,000, beautitul condjition, E115. Ascott, 36 Ryc Lanc. Peckham. 70229 ROVER, 84p 2-ecater. dynamo lighting, new batierien, speriomet. mirror, clock, two new.
HOVER 8. 1923 . starter, spendometer, repaintert, sery alco order, good ROVER 8, 1921, 3 -scater, cloverleat, dynamo lighting, apeedometer, ROMER 8 , 1921, NOVER, Bhp. 1924. delivered 1925. small mileage. £85. Ratcliffo Bros., 200 Ge. Portland St.,
ROVER 8, 244, 1922-5 2-scaler de luxe, nearly new oversize extra heavy Dunlops, spare wheel, leather upholstery, Lucas electrical equipment, speedometer, clock, sido ourtains, tools, etc,
ance, tax paid. Grimston, 435 Portland Rd. Weat Hove, Sussex.
$701-790$ ROVER 8, 1924 , de laxe 4-seater, weednmeter, clock, dasklamp, leather Mipholstery, Fulham, S.W.6.
 ROVER 8, do luxe, 1925. diekes. leather unholstery. risld side carGins, starter, clock, speedometer, iax, littic used, new condition. ROVER, 2-acater, good condition, chesp; secn alter 6 p.m. 14 ShawROVER, 8hn, 1922 , 2-seater, dynamo lishting, 4 net iytes, sparo Whecl. beautitul condition, tased, insured, 40 , after 6.50 . 701 -w 802 ROVER 5, lato 1923, chummy, as new, guaranteed, E65: taxed to December, new tyres, litle usca. 701 -w80a ROVER 8, 1923 . 2 -seater, excellent running order, 250. Aveley, Atkins ROVER. 1925. Thn, A.acater de luxe model in frst-class condition IIales St., Corentry. Phone 2671.
ROVER 8. South Ealing Garage. 1923 model salcon coupe, etarter, Fanted blue, leather upholstery, sood trres. many extras, ideal lady's ROVER 8. South Ealing Garage. Do luxe model, leather upholstery.
 ROVER 8, 4feater, In new condition thronghout, guaran
£85. Delofords, North Row. Park Iane. Open to 7 .

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

SALMSON. Appls to the London diktributore, Gordga Watney and Co., changes and epceial deferred lerma arranged. Ji Brook Sl., Lundon W.1. Phone. Maylaír 2966.

SALMSON, 1925, 10hn, 2-seater Eperts, very fast, excellent condition,
 SALMSON Srecial, 8 months old, J-bearing crankshaft. 4 -speed gear box, 1.w.b., winncr of sercral prizes at Brooklands, completo with raclng and Louring cquigmont, elcetric lighting, lorn, screcn, wif, gas ; pncuratio upholstery, strcamline nluminumis body, binined lifht hluc. 30 balnncet
 SALMSON, 1923, echummy, all-weather, dynamo, starter, specdometor, SALMSON. Two 1922 -scaters ancl dickey, onn spolk chassis, both in SALMSON 1923 model de luxce 2-seater anil double dickey, painted maroin Mith
$\boldsymbol{\Sigma} 70$. Below.
SALMSON, 1925, $10.15 \mathrm{hp}, 4$-door saloon. 4 srecds. 1 wh ., ixalloons
 SALMSONS. Vadum Co., nsed Salmson specialisis, oller, among others C9S. Superb 1925 model snorta, scli-stnrter, orersize 1 yres, nil weather 268. 1925\%, de luxe English bods, double divkes, only wants seeme Delerred, exchiages. Salmsons bought, overhauled and sold. Open 6 Saturdays.
 SALMSON, very lato 1923. English hade, with large dickes, painted Crecn with blark wings. in excellent conditlon bargain. E65: exchangei.
 SALASON, 1925, 10hp, repainted, orerhanled. self-sthrter, full equip
 SALMSON, November, 1923. 2-scater, dickes. Enflish beals, tast tonrer ${ }^{\text {any }}$ irial. $£ 70$ : lcrms arranged. 94 lligh lid., Leyton. Maryland
 liverci
$£ 65$.
1925 model special eports permanent pollankily hil hid, taxed sear Gispantced, 87 guineas. 111 Gt . Portland St., Wi.1. Thone, Ianghnm SALMSON, 1925 rnorts. si5t; deferrect poyments. exchanzes. D Railton and Co., 6 Chapel Sl., Salford, Manchester. Cent. 8539.82

SALMSON, 1924 sporis 2-seater, exrellent order, f90: exchango or (Fourib turn right frcmi Marble Arch.) Always open. 701.850 SALMSON, 1925. 1 Ohn . 2-scalcr do luxe, practirnlly new, £105. New

 ENWinment, 1125. Boon and Por
 SALMSON, 1926, brand new (shon-soiled) 1015 4-door 4 aloon, iw. balloons, crery' arcessory, makers' suarantee, list prico \&430, our prico 295 suineas. Below.
SALMSON 1925 10hp Grand Sporls 2 -gcatcr, overhead camshafts, iw.b., completely equipped, superb condition, 160 guineas. Below.
SALMSONS. $\triangle$ real snip. Sce page $2 . \quad$ 701-963 SALMSON 1924 10bp sporis 2 -seater. completely emipped, excellent
 SALMSON, 1925, $\boldsymbol{x 1 2 0}$, 2 seater and dickey de luxe, overaize tyres and 2n excellent condiflon, surtable dor driver with right artificial lcg SALMSON 1925 Grand Sports. 10 hp . 2 -seater, painted marocn, flted
 SALMSON, 1925, 2 -geater, sell starter, dynamo, all-weather equipment.
 Nortb 4326 .
SCOTT SOCIABLE, 2-seater, di. key, hood, sereen, dynamo lighting In. terchangeable whecls, spare with tyrc, taxed till December, wres good

SENECHAL cars. As the sole ecncessionnalrea for Great Britain, we always have sercral sood zecond-hand Senechal cars in atock. Free circo. Tele., Museum 6626. A.S.C., 166 Gt. Portland St., W.1.
SENECHAL 1925 sports 3 -neater, balloon tyres, wira wheels, Miart fords,

SENECHAL 1925 super-sporls 2 -scater, upectal competition car

SILVER HAWK super-snorts, overhead camshnft, Fric-Campbell chasals. aire whicte, aluminmm streamline hody, outbide exhaust. not a racing Balham.

## SECONDHAND

LIGHT CARS AND CYCLECARS FOR SALE (conlinued).

SINGER, 1924 10hp 4 -scatcr, painted bluc, electric lighta, sell-starter,
 SINGER, licensed 2-seater, dynamu. smartly finished violet, ${ }_{\text {nsed }}^{\text {raretull }}$
 SINGER, 1924 Weymann enloon 4 scater, 101 p , SE135: taxed Fx

 SINGER, 1925: de luxe 2-seater, starter, splendids conclatien flirourh.


 at branches by arrangement. 701.712
 Bolton; also 246-252 Deansgate, Manchester. 70170 . SINGER, 1924. 10hp, Weyinann saloan, evechlent conalition. C150: also 246-252 Deansgate, Manchester. $701-702$


 SINGERS: exchanges, deferred paymentar 1920 collpn, 2 .

 SINGER, Inte 1924, de lnxe 4 scater, first class fondtion, new balloon
 SINGER A-5miter de luxc, Sull standard equipment, taxed, lias been
 SINGER 1919-20 2-seater, selt-starter, usual accessorics exectlent
 SINGER 201921 2-scatcr, double dickey, 4 orersize fires and sparo (practically unvorn). Exide balters, 1925, electric and b, wll horns


 SINGER, 1925, 10-26hp. 4-scater, small mileaze in new condition throughont insured, open io any examination, $15 \xi_{\text {zns. © exchanke or }}$
 SINGER, 1924 , 2 seater do luxe, doublo dickes, all-westher equipment, clock, specdometer, etc. 5 neve Dunlop cords, iax pail, bericet conditalo Cresecprt, IIford. 701 k 762 $\begin{array}{lll}\text { SINGER do luxe coupe. October, } 1921 \text {, overnanuled, repainted, new tyres, } \\ \text { perfect, guarantced, } £ 47 \text { 10s. so Manor Rd., Lcyion. } & 701 \text {-w } 694\end{array}$
 SINGER, 1924 2-scater do luxe, years hax, in excellent condition and Co., 6-7 Warren St w ${ }^{1}$ Muscum 2578-9. Archic yimons SINGER, 1921, 10hp, special 3-seater, clorer-lesi Lody, dynamo i/. SINGER, brand new 4-seater, unrecistered, shop-soiled, L195: ex cluagca. Nort $702-995$
 SINGER $1925-26$ model do luxe, 4-5-seater, al1-weather equipperd, pneu-
 6684 Western. SINGER 10, late 1923, 4-scater do luxe, self-starter, dynamo lighting, sel of tyres, excellent apnearance and perlect mechanient condition,
 SINGER. Exceptlonal bargain. $\ddagger 926$ 10-26hp, limousine saloon, only used for fow demonatration runs, absolutely liko new, $f 255$; cash or casy paymenti. Wjikins, Simpsow. opposite Olympia, London. Phone, River SINGER 1920 and 19212 -scaters with dickey, scli-starters, full equipment, f42 10s: deferred terms, exchanges; many other makes. Andrewis,
Molor Mart, 151 White Mart Lane, Barnes.
$701-925$ SINGER, 1925 10-26hn 4-acater, many extras, yeara tax, very Hetlo


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

 SINGEA 1921 coupe, 10 hp , selt-starter and dynamo lightinc. leather
 SINGER lato 1924 de luxe 4 arater, magniAcent order and condition and
 SINGER. Always 50 used cara in slock. including Singer, all baeked by
 SINGER, 1923 , Johp, do luxe 2 -esater, double dicker, paintrork un-
 SINGER and car bargans at Nenahams':-
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 STANDARD, 1924,11 hp. 2 seater, mechanically sound, revarnished, ${ }^{7}$

 STANDARD, 1024, 11 hm , 2 -seater, dickes, dynamo. starter, taxed, reads

 lediku corit. likhting. startor. 565 , 1924 do luxe all weather 2 -scater.
 STANDARD 3024 . 11.4. 2.senter, dickes, alt-meather serens, excellent Kink's did. Cholsca, s.w. 701-808 STANADRO, 5 Sh! 1920 nodel, 2 -keater and dickey, dynamo lizhting
 STANDARD, 114 hp . 1 ale model 4 -renter de luxo Konilmorth, all-weather.

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 STANDARDS. A rial enip. Sco page $2 . \quad 701$ - 62 STANDARD, 1925, 11.4 hp . self-starter, dynamo, 2 -seater not doublo dickuy, conchuork ungeratched, むi117 10s. 69 St. Pant s Arentle, STANDARD, 1924. 11.4, do luxo 2-scater. completely equipped, ex-
 STANDARD, \&110, 1924, all-weather 4 seater do luxe, paint unSTANDARD 19252 -seater, double sunk dickey, balloon tyres, sell-
 STANDARD, 1925 , lalcst model de luxo 2-seater. exceptlonal condition
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 WOLSELEY, 192311 hp --seater and dicker, nice order, f95. Eice,
 WOLSELEY, 1925 10 b 2seater, sunken dickev all-weather equipment,
 701 -a58 WOLSELEY, 10hp 1922 de lase model. sfarter, petr trres, taxed, splenKing's Rd., Chelse3, S. W. Kensington tōj3. A.try and Bernard, $701-815$ WOLSELEY, 2seater do luxe. 1921, balioon, draman lighting. starnty,
 WOLSELEY, 75 guineas, $10 \mathrm{hp}, 1923$, seater de fure Hicker, starter,
 WOLSELEY IChp de luse, 1923. sell-3tarter, qulte complete ard reariy
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