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# FERODO BRAKE LININGS 



Russian Oil Products Lid.,' Moorgate Hall, London, E.C.2.

"Meadowleigh."<br>Reculver Road,<br>Herne Bay. 23-6.31.

Jowell Cars Limited,
IDLE, Bradford.
Dear Sirs,
Some six years ago 1 bought my first car Susie Jowett with which I was so pleased that I wrote you a little article of appreciation. She gave the greatest satisfaction always; if she didn't it was not her fault.

I have just invested in a Jowett saloon with a sunshine roof, and I want to congratulate you most heartily on the performance of Susie Jowetl 2nd, which is an extraordinary improvement on the old car, good as she was.

You were good enough to get the new car finished for my holiday, and, though she only came on a Saturday and I was unused to the centre gear lever, after a few miles, so good was her steering and gear action that 1 decided to go the following day for my trip of 800 miles, a real test which did not trouble her in the least. For 8 hours 1 drove in a deluge from South Wales to Shropshire and not a spot of rain got into the car, neither did the wiper stick. Nor once either was it necessary 10 go into bottom gear, In fact, she has done 1,300 miles now and I have neverused bottom gear yet, and shall forget how 10 do it when it becomes necessary.

Her best performance was the stiff Warrington Hill outside Banbury on the Warwick Road. With three aboard she climbed it well. With three up old Susie used to make a task of it and always on low gear.

I could tell you much more, but your splendid efforts must have elicited great praise from everywhere; but, throughout our tour, she gained the highest praise from all, especially from two Rolls-Royce experts.

Yours sincerely,
(Signed) F. R. STANLEY.


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

## 66


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DOWN DRAUGHT PUMP CARBURETTER

In this carburetter the vapour falls into the induction pipe instead of being lifted into it, resulting in an instantancous response to throttle opening. Whenever the accelerator is quickly depressed the pump forces petrol into the choke, enriches the mixture and maintains the richness until the engine has gained the required speed. The carburetter can therefore be set to give a weaker mixture for normal running, thus saving petrol.
The pump also enables a larger choke to be used, with consequent increase of power. All the other well-known Amal features are included, such as the bridging jet which completely prevents flat spots.

Write for leaflet giving prices and full details. NOTE.-A Down Draught Carburetter necessitates a special Induction pipe.


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 of shock.
Give them grease and get full benefit from the suspension system. The "Terry" Greaser thoroughly lubricates them, thus improving the springing and ensuring salety. Fitted to a grease gun it levers the springs open and forces grease down the full length of the opening. For Len! Springs 14 ins. For Len! Springas 24 ina. to 21 ins. breadth. io 31 ins, breadth.
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Herbert Terry \& Sons, Ltd., Redditch, Eng. Est. 1855.


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

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W ${ }^{\text {TTH }}$ the aid ol "The Motor Repair Manual" the owner-driver can tackle his own simple repairs, adjustments and overhauls - thus reducing repair bills to a minimum.
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## f driving makes you drowsy-



## it's time the piston rings were changed!



There's a BRICO Ring for EVERY Engine, specially made from contrifugally cast iron. suaranteed to fil first lime without any bedding in.

When the fumes of burnt oil and petrol penetrate the interior of your car-bringing headaches and drowsiness, it is a sure sign that the piston rings are inferior. They cannot be sealing the compression, but are allowing the mixture to escape past the piston with consequent loss of power. You can stop those annoying fumes at once-and restore new car per-formance-by having a new set of BRICO PistonRings fitted. They are specially made from centrifugally cast iron, and when fitted form a perfect circle againt the cylinder wall, dead true, giving perfect compression.
Any first-class Carage will supply and fit a new set of BRICO Piston Rings to your car at a small cost.

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AWAY
DULL CARE!

Far from the stress and strain of cities by the aid of a Morris Minor s.v. saloon. Tourists from a northern manufacturing town enjoying the wonderful view across Lake Coniston. The Lake District is one of the most popular touring centres in the British Isles.

To-morrow at Belfast.
At 11 a.m. tomorrow, Saturday, Augnst 2 nd, the last British rond race of the year will be starting. Our readers will join with us in wishing suecess to British entrants and to the light ear drivers in particular, and the best of luck to the foreign sportsmen. Let us bope also for tine weather.
A full programme of the race is given in this isstre.

Police Activity.
The police in the IIome Counties are stomping cars between midnight and \& a.m. us a check on car bandits and other criminals.

## A Contradiction.

Persistent rumours have been current of late that Leon Cushman's $100-\mathrm{m} . \mathrm{p} . \mathrm{h}$. Austin Seven had ans engine fitted with overhead eamshatts. We are able to state that there is no truth whatever in this, and that the engine was a sidevalve job. We saw it!

## " Non " -census.

During the census of motor and other trafie which caused little sentry boxes to spring ull on roads all over the country last week, we heard of one man who, returning by the way he had conne, stopped by one of the men who were counting and insisted oll explaining that he had passed already that morning, and therefore should not be counted twice!
No. 976. VOL. XXXVIII.

## NEWS of the WEEK

Lord Ridley's record-breaking T50 c.c. car: details of its construction (page 352).

The 1032 Triumph programme and a full description of the new 8.9 h.p. model (page 3 ̄4).

If you do not know what it feels like to drive at $100 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. turn to page $3 \overline{5} 7$ and let "The Blower" tell you.

The construction and working of Luvax hydraulic shock absorbers is elearly explained on page 366 .

Cars and drivers in the IR.A.C. T.T. Full details of to-morrow's great race, which light cars have a distinet chance of winning (page 369).

## " Coming Events-"

Judging from shadows "cast before" a number of factories bitherto famous for large cars hnve turned their attention to the $1 \frac{1}{d}$-litre category for 1932. Watch this journal for developments !

## Mr. Mantell's Problem.

Although no brize was offered, a large number of readers sent in solutions to the difficult-starting problem propounded by Mr. Mantell in "'「echnicul Aspects" last week. Only one reader was correct; most of the others suggested electrical trouble ranging from damp plug insulators to wrongly connected II.'T. lends. Turn to page SUS and find out where you were wrong -it may belp you when your own engime "goes on strike."

## The B.S.A. Four-wheeler.

Although a Midland newspaper has published a brief description of a B.S.A. four-wheeler, inquiry at the B.S.A. works shows that the mublication is somowhat premature. The existence of experimental models of this type has been well known in the Midlands for a considerable time, and some months ngo our contributor, "Focus." wrote at some length on one of these machines. It need scarcely be added that a full and authoritative description of the new model and its performance on the road will appear in The Light Car and Cuclecar as soon as this cun properly be doue.

## 



## AT BROOKLANDS

H. C. Lones (Morgan) was the only cyclecar competitor at

LAST SATURDAY. the B.M.C.R.C. meeting. He ran in two events and won the second at $90 . C 6 \mathrm{~m} . \mathrm{p} . \mathrm{h}$., beating four sidecar outfits.

## Rubber Roads.

Experiments are being earried out in Ceylon with a rubber bitumen emulsion for the construction of road surfaces.

## Manceuvres.

Hampshire is the scene of Army manauves this week and motorists are liable to come upon troops on the march. Loopway and detour signs have been erected by the motoring organizations on roads affected.

Three Millions for the Roads.
Road Fund grants during July, for road schemes for the relief of unewployment, umounted to $£ 3,279,000$.

## New Cars in June.

Statistics for June show that 11,771 new ears were registered in that month. The greatest number was in the $S$ h.p. class, where 3,464 machines were regis-tered-an increase of over 300 vompared with June, 1930.

## New Ordnance Maps

TUE first shect of an entirely new 1 edition of the well-known one-inch Ordnance Survey maps of England and Wales has just been issued by the Ordnance Survey Office, Southampton. lt differs in several important wnys from the one-inch Popular edition which it will ultimately supersede. The most prominent improvement is the iutroduction of a modified form of hill shading which has been incorporated without ans loss of clnrity or detnil. Another improvement is the provision of au overlap of 1,000 yards with neighbouring shects, this, of course, being a great help to users when passing from one sheet to the next; previously there has been no overlap. The sheet lines of the new edition, ineidentally, will differ very slighty from the Popular series, but the sheet numbering will be retained.

In soneral. the new maps represent a distinct improvement on the old, but there is one alteration which motorists, cyclists and walkers will all view with regret: this is the abandoning of the two-mile squares and the substitution of a grid with the lines spaced ar 5,000 -yard intervals.

It is explained that by means of this grid "the position of a point may be defined with accuracy," but how many road users-who, presumably, will form the great bulk of purchasers of the maps-want to "define a point with accuracy?" What they want is some-
thing that will give them a reasonably accurate idea of the distance between two neighbouring places in miles.
l'rices of the new edition are 2s. ber shect on paper flat, 2s. Gd. on paper folded, 3 s . mounted and folded, nind 4 s . mounted in sections. The sheet already issucd is No. 144, which covers the 1'lymouth district.

## Oil in New Zealand.

A well sunk at New I'lymouth, New Zealand, protuced a flow of 4,000 gallons of pure petroleum on August 11th.
Church Services for Motorists.
We published a maragraph last weck statiog that a special service for motorists would be held at the pnrish church of Cirenerster. We now hear that the R.A.C. has prepared a list of churches holding services with a special appeal for motorists. Copies may be obtained on application to the secretary of the R.A.C., Fall Mall, London, S.W.1.

## Pocket Tyre Gauge.

The Dunlop Iiulber Co., Lid., is now marketing a handy yocket tyre gature. There are two models, the smaller reading from 6-52 lb. per sg. in. and being suitable for light ears. The instrument fits like a fountain pen into the waistcoat pocket, and is accurate in use.
"Drunk in Charge"-or Poisoned?
The dangers of earbon-monoxide foisoning from the exhaust gases of enr engines is dealt with at some length in one of the interesting "Staff Ienflets" issued from time to time to their employees by Alexander Duckham and Co., Ltd., the well-known oil-relining concern. The leaflet calls attention to one important aspect of the case, in which persons accused of being drunk in charge of a motorear have subsequently been found to have been victims of carbon-monoxide poisoning.

A warwing is uttered that in certain cases-such as rumning au engine in a closed garage-this form of poisouing has proved fatal.
The leaflet goes on to suggest that the root of the trouble is incorrect earburetter adjustment, causing incomplete fuel combustion, and we join with Duckhnm's in warning motorists to adjust their carburetters correctlythereby obtaiving maximum fuel cone sumption incidentally-and to open windows and doors when ruming the engine in a garage.


## AN UNDERGROUND COACH STATION.

The Hastings Borough Council are building something new in garages under the promenade. It is entirely underground, will be $1 \frac{1}{2}$ miles long, and is entirely underground, will be $1 \frac{1}{2}$ miles 10 mouse 500 motor coaches.
to

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New American Austin Model.
Whe American Austin Car Co. recently aunvunced the naddition to the range of a light vau priced at $32 \overline{2}$ dollars (about $£ \mathrm{~S}^{2}$ )

Trailer Prosecution Fails.
In a case recently heurd at Southam. Warwickshire, the A.A. was sucenssfut in defending a motorist charged with driving a motnrear witl a trailer at more than 20 m.p.h. The defending solicitor contended that no offence had been committed, as the speed limit had reently been raised to 30 m.p.h. by the Minister of Transport. The Clerk to the Conrt stated that he had not received the new regulntion, which arpmarenely had not been printed at that time; the stmmons was accordingly adjourned. At the resumed hearing the lienel dis. buseon the case and awarded costs nabinst the police.

## Touring Abroad.

The R....C. wishes to draw the attention of motorists contemplating touring :abroal to arecent important concession relating to the international driving permit. The new permit enables the holder (t) drive any car in the entegory specified, in any country where these permits are recognized. They are valid for $1!$ months from the date of issue, and the only restriction is that they must not be used for commercinl purposes. The old nermit allowed drivers to haudle only the car specified.

Schneider Trophy Car Parks.
We are informed by National Car l’uks, Letd., Denman ilace, I'iceadilly Circus, London. W.1, that the concerin is organizing the oflicial car parks at West Wittering on behalf of the Roynt Aero Club, and at Hayling Island and Gosport, on the occasion of the Schncider Trophy Contest.
The race will be flown over these parks, that of West Wittering being a turniug point. Spaces ean be booked in advance at the Piccadilly Circus Garage. Denman Strect, London, W.1, and at Keith Prowse and Co.'s oflices, or their ngents. Coloured windsereen labels will be supplied to assist trafic control. A car-park ticket will pass occupants of the car in free.


This is the latest design of folding head, by Weathershields, FOR SUNNY _ of Birmingham. As the illustration shows, the roof rolls DAYS. right back and is stowed away at the rear of the car-in this instance, a Singer Ten.
'Ware Wigan!
At n Wigan police court recently 13 motorists were charged with failing to observe the new atomatic truflic


## A quaint sign seen at Cottesmorethe home of the famous Rutland hunt.

signals, and were fined $£ 1$ each. It was claimed for the defence that the lights were indistiuct aud very badly placed. and that none of the trivers had seen them. The Chief Constable replied that the lights were of the standard ispe, and that a warning sign had been fixed 100 yards before the signals were renched.


This attractive sporting four-seater body, by the Abbey Coachworks, of Wimbledon, is now available on the Triumph Scorpion chassis at $£ 245$. The specification is similar to the well-known Abbey Wolseley Hornet models.

Shelsley Amateur Climb.
Prospective entrants for the Shelsley Walsh Amateur Mill-climb on September öth are reminded that entries close on August 27 th.

## Radio Kills Grassnoppers.

Reports have been received in this country recently of plagues of grasshoppers in America and elsewhere, durjng which not only has veretation been destroyed, but roads have been blocked! After several methods of extermination have fniled, it has been discovered batt high-frequency radio waves have the desired effect of killing the insects in swarms.

## The St. Leger Meeting.

Motorists visiting Doncaster during St. Leger race week are warned that a new scheme of traffic arrangements will be in force during that period. pampliet describing the new scheme has been prepared, and coples are obtainable post frec on application to the Chief Constable, the Guilduall, Doneaster, or to the secretary of the R.A.C. (Touring Guides Department), Pall Mall, Loudou, S.W.1.

## Brittol Fuel Tested.

The R.A.C. has issued a leport of n trial of Brittol motor fucl, which took place from July 6th-July Sth. Samples of Brittol motor fuel were submited for trial in a six-cylinder two-litre car by the Brittol Syudicate, Ltd., 24. Grosvenor Gardens, Lundon, S.W.1, the object beivg to demonstrate fuel consumptiou, case of starting, absence of dilution of crankease oil, and general performance over a distance of $\overline{500}$ miles on the road.
A total distance of $502 \frac{1}{1}$ miles was, in fact, covered at an avernge speed, excluding stups, of $25.7 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. The fuel consumption worked out at $20.97 \mathrm{~m} . \mathrm{p}$. m . (33.S ton m.p.g.). A sample of oil taken from the sump after 169 miles' running showed a dilution of 7 per ceut. The general performance of the engine, includin: starting, pick-up, slow-running, idling and power output, was similar to that which might have been exjected had erdinary petrol been used. There was no noticeable odour from tha cahaust.

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## THE IO5 M.P.H. "BABY" CAR

## Viscount Ridley's Record Breaker

ON Wechesday, August 12th, Vis :nunt Ridley, at the wheel of the The e.c. car of his own design, broke the flying milo and flying kilometre records in the Intermationnl Class Hat the wonderful speeds of 104.56 m.p.h. and 105.42 m.p.h. respectively, a few dnys after Leon Cushman (Austin) had brokell the same records at over 100 m.p.p.h. for the first time in history.

The successful attack on these

The nower unit is a 750 c.c. fourcrlinder engine with valves ojernted by two overhead camshafts. The engine has the remarkable cylinder dimensions of 66 mm . by $54 . \overline{\mathrm{m}} \mathrm{mm}$. - the stroke being thus smaller than the bore.

Features of the desigll-which is entirely "special" and not in any sense an adoptation of an existing unit-are the use of nitralloy liners for the eylinders, a special threc-bearing nitralloy

records at the first attempt comes as the fruit of long-continued work in the past few years-work which Lord Ridley made his hobby-and as a lone effort the speeds attained must be regarded as astounding.
The machine was described in Tho Light Car and Cyclecar of June 27th, 1930, but since that date the design has been considerably modified.

The ruost important alteration bas been the use of a new engine, set upright in the frame in the norinal manner; in the original chassis the engine lay, as it were, on its side.
(Right) An end-on view. Note the vernier adjustments provided for timing the camshafts, the magneto position, and the very small flywheel.
ciankshaft-machined from the solid and with disc-type webs-and Kicarciotype aluminium pistons.

The engine was turning over at 6,500 r.p.m. on a 4.93 to 1 tong gear at 105 m.p.h.

A Powerplus supercharger was used during the record runs, and this is mounted well forward of the engine in a direet air-stream, and flexibly driven by a long shaft from the crankshaft; there is a simple arrangement whereby the driving sprocket of the blower may be changed to obtain different supercharger speeds. For his purpose Lord
(Left) The exhaust side of the Ridley engine, showing the large oil filler and the water pump.

Ridley "blew" at $\mathbf{1 6} \mathrm{lb}$. pressure with a compression ratio of $6 \frac{1}{2}$ to 1

Except for the supercharger and the clutch unit, which is from a Thomas Special, the entire car is Lord lidey's own design.

The chassis is tery long and considerably unswept at the rear. At both front and rear double semi-elligtic springsvery long, flexible and heavily damped -are used, and meticulous care has been taken in the design of tho nale, castor and stecring angles, so that wheel patter has been elimimated and brake operation is unimpeded whatever the angle of the wheels or deflection of the springs or axte

Four Inches Off the Ground!
The ground elenrance, as can be gathered from an accompanying illustration, is very small-4 ins., in fact! At 10 m m.h. Lord Ridley said that


THE WORLD'S
Viscount Ridley's 750 c.c. car of his own design in which he, last week, broke the flying kilometre at $105 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. in Clans H at Brooklands. Note the careful streamlining, low ground clearance and long wheelbase of the wonderful little machine.
plonger, fitted with a mon-return valve, into the ram cylinder, thus the gins work effectively with heavy grease and in : $2 n y$ position.
lixecpting for the brass ram plunger of the large gun, atl parts are of stecl. The fit of the various sliding portions :npears to be very good and all threads nre well cut. To ensure non-leaking contact with the nipples the nozzle of rabl type of gun is provided with a fibre jiad. The large gun costs only Gs. 3d. and the small one 3 s . 11 d .

## East African Developments.

The Royal Rast African Automobile Associntion informs us that a new rond will be open to motor traflic towards the end of this season which will open up one of the most interesting tours in dast or Central Africa. The rond starts from Kampala and passes nlong the foot hills of the Mountains of the Moon, pist Lake George to Mbararn, where it joins the main trunk rond to the Ruanda I'rovince (Belgian Congo). Just beyond the frontier a new Belgian road branches off to Kissenyi, on Lake Kivu, styled the "Naples of Aerica." From here the road passes through the wonderful Semeliki Forest to Irumu, and thus to Mahagi Port.
'The club proposes to hold a hill-climb for cars in September.

## A Rust Preventive.

A preparation which can be recommended for protecting exposed iron or steel from rust is So\%ol, marketed by Sozol (1924). Ltd.. 20, Copthall Avenue, Iondon, N.C.2. It is in the form of a liguid and can be applied sither by spraying or brushing, or, in the ense of small parts, by dipning, the result being a thin trausparent film. which is quite harmless but very lnsting. Parts treated will withstand both salt and fresh water, and even immersion in acid for some ininutes; similarly, it gives immunity from the severe rusting properties of eal nmmouiac. Two grades of Sozol are mude, the thin grade being suitable only for spraying or dipping. Both are available in small tins at 1 s . 3d. and 2 s , or in larger quantities, a gallon, for oxample, costing 17s. Gd.

In addition, there is Sozolised Compound, which has similar properties, but is thicker in consistency; as in the case of Sozol it is made in two grades. the thicker of the two being suitable for application with a ragy nod the thinnel with a brush. Prices are slightly lower than those of Sozol.

## Two Useful Grease-guns.

A. W. Gamnge, Ltd., Iolborm, London, are marketing the two highpressure grease guns shown in an accompanying photograph. In each type the Inbricant is fed under the pressure of a

## Two handy bigh-

 pressure greasepressure greaseGamages at 6s. 3 d . and 3s. 11d. res-pectively (see text).

## Iron Road Opened.

The experimental section of iron roadway was opened lnst week in Connaught Road, nenr the Vietoria and Albert Docks, London. Results will be watched with interest.


## Perfect Circle Piston Rings.

I'erfect Circle piston rings, which are extensively used in Amerien, are now being introduced to the English market and are being handled in this country by Messrs. W. T. Driver, G3-G4, Chancery Lanc, London, W.C.2. Various types are nvailable to suit different needs, but a common feature of each


Three types of Perfect Circle piston rings now obtainable in this country.
type is an anuular groove which serves to increase the pressure of the edges on the cylinder walls without breabing the oil film. In the case of the oil-regulating types the base of the groove is slotted at intervals to allow surplus oil to pass to the back of the ring and so return to the erankease vin the usual oil holes in the piston. Descriptive folders, giving details of the sarious Perfect Ciscle types, can be obtained on application to the concern mentioned above.

## The T.T.-Late News from the Course.

Great excitement prevails in Belfast aud the surrounding districts, where the fortunes of the competitors nre being eaperly discussed. It is expected that half a million spectators will line the Ards circuit to-morrow during the race.
In the Earl of March's team of supercharged M.G. Midgets, C. Fiennes will take the place of I?. Watney, who has been taken ill and will be unable to drive to-morrow.
Thrilling incidents took place during the early hours of practising while heavy rain was falling, aud skids and crashes were numerous. 13. O. Div is (Mercedes) turned completely round at over 90 m.p.h. on Wednesday, hitting a post and bending a wing. Dutley Froy (Invicta), who was just behind, crashel into the hedge, broke his wrist and the Invicta was wrecked.
F. S. Barnes (M.G. Midget) also had n narrow escape when his car overturned, but escaped with a cut face. The Italian Alfa-Komeo drivers, untroubled by the wet, have been practising with regularity and at high speeds.

Two Arrol-Asters liave been withdrawn from the race.

## Ulster Motor Week.

The Kally and Concours d'Elégnnce held this week in Ulster by the Llster Automobile Sports Club proved a great success. There were 63 entrants fr .m Ulster, 36 of which were light cars.
Four competitors started from Joln $0^{\prime}$ Groat's, including A. C. Fairtclough (Austin Seven) and. by wny of contrast, J. B. Bainbridge's Rolls-Royce. Miss Paddy Naismith (Aron Standard) was the only light car starting from Dover, from which point Donald Eealey was down to start in his Iuvicta.

The winners of the first three mizes were all locsl competitors-.J. MeCaherty (Austin 16), W. J. White (M.G. Six), and F. W. Earuey (Austin Seren).


## THE IRON ROAD.

Experimental sections of road surfaced with iron plates were recently opened in London. Here workmen are shown laying the blocks, which have a non-skid surface and are claimed to be perfectly safe when wet.


The new Triumph Super Nine looks good with its four-door saloon body.
There is ample seating accommodation and the appearance is pleasing.

TWIVLVE models constitute the Triumph range for 1932, and although the Super Seven and the Scorpion have been improved in several important respects, the greatest interest maturally attaches to nu entirely new chassis-the Super Nine.

In brief, the programme is as fol-lows:- Super Seren two-four-seater, £140; Super Seven tourer, $£ 140$; Super Seven sports two-seater, £147 10s.; Super Seven conchbuilt two-door saloon, £150; Super Schen "Pillartess" fourdoor salown, £150; Super Seven coachbuilt "Pillarless" four-door salonn de luxe with four-speed gearbox, $£ 165$; Super Nine conchbuilt four-door sixlight saloon, f175; de luxe model, E1S5; Super Nine two-four-seater de luxe, £175: Scorpion Six four-door coachbuilt saloon, $£ 1 \$ \overline{5}$; Scorpion Six four-door coachbuilt saloon de luxe with four-speed gearbox, $£ 205$, and Scorpion Six two-four-senter de luxe, $£ 17 \overline{5}$.

## Wider Wheel Track.

So far as the first threc models in the list are concerned, there is very little difference from the 1931 models excent that, as with all the other 1932 Triumphs, the track is $1 \frac{1}{2}$ ins. wider and also the Lockhued hydraulic brake reservoir is now mounted on the front of the dash, where it is much more aceessible than in the old position under the floorboards. The other Super Sevens and the Scorpions, however, carry a number of modifications which are detailed later in this description.

Turnivg to the newcomer, it is clear that the designer has not been confined to features which are already well known in connection with previous

Triumplis. The engine, for example, has several unusual points, foremost amonest them being the location of the inlet valves directly over the cylinder bores, although side exhaust valves are used. 'The sparking plugs, slightly in-

An Entirely New Model for 1932 with c.c. Overhead Inlet Valves and a Four-door Saloon on the Super Seven. stantial Price Reductions on the
by means of a flange and studs and leads downwards from the centre of the manifold. Above it the horizontal Solex carburetter is connected to the inlet manifold cast in the head by means of a short passage in the exhaust manifold casting. This is arranged to form a hot spot on which the ingoing charge impinges directly

From the camshaft, situated in the crankease. tuhular steel push-rods operate the inlet valves through the medium of rockers mounted in pairs on a single standard. Oil passages are drilled in the standards and in the

clined from the rertical, are fitted above the exhaust valves, and the greater part of the combustion chamber is concentrated at that point, a narrow channel connecting it to the eylinder bore. As in most modern engines, the cylinders and crankease form a single casting with a light sump below. Above the cylinder head casting, the inlet valves and rockers are enclosed by $;$ a cast aluminium cover and the exhaust manifold forms a separnte unit which is bolted to the side of the head. The exhaust pipe, by the way, is attached


The Super Seven model as modified for 1932. It will be seen that there is nothing unusual in the appearance of the "pillarless" body when the doors are closed.
rockers so that lubricant is fed under pressure to the rocker bearings and to the ball sockets at each ends of each rocker. It should be explained that, instend of allowing the rocker to bear directly on the valve stem, a hardened steel ball is carried in a socket and a flat on the ball is in contact with the stem so that any likelihond of wear at this point is reduced to a minimum.

## Accessible Oil Pump.

The oil pump is mounted in a very accessible position on the near side of the crankease and cylinder casting. It is driven by skew gearing from the eentre of the camshaft, and oil passages are drilled to the three crankshaft bearings from which other passnges in the crankshaft lead the lubricant to the bigends. The connecting rods are $\amalg$-section steel forgings with split big-ends, into which the white-metal lining is run direct. Special aluminium alloy pistons of a self-compensating type are used.

A duplex roller chain drives the camshaft and the dynamo with which the coil ignition distributor is incorporated. The tension of the chain is adjustable by rocking the dynamo, which is flangemounted on the back of the timing-chatin case. At the top of the casing there is the oil-filling orifice, which is very accessible. As on the Super Seven, the fan is driven by menns of a flat velt-a system which has been found to bo

## GINE OF UNUSUAL DESIGN

8.9 h.p. Four-cylinder Engine of 1,018 Four-speed Gearbox. A "Pillarless "

Important Improvements and Sub~ Super Seven and the Scorpion
thoroughly satisfactory. The enoling water circulation is effected on the thermo-syphon system.

With a hore and stroke of $\mathbf{6 0} \mathbf{m m}$. and ! 0 mus. respectively, the cuhic capacity is 1,018 c.e., the Treasury rating lpeng Es? h.p., but it is understood that an output of some $32 \mathrm{l} . \mathrm{h} . \mathrm{p}$ ). is readily obtainable at about 4,200 r.p.m.

At the front of the engine are two hatachetz which sipport it on a frame cross-member, rubber buffers being placed above and below the brackets. Jetween the clutel housing and the main casting a steel plate is clamped, and this is attached to the frame, silentbloe bushes being interposed. In short, the engine and genrbox unit is supported throughout on rubber.

The clutch has a very light dual segmental spinning member which is gripped between two frietion surfaces. As the segments are set nt a slight angle, a swect "take-up" is obtained


Several modifications are incorporated in the 1932 Triumph Scorpions. Amp'e luggage space is provided at the rear of this body.
to ensure silent operation. The centrally placed lover has a comfortable knob on which nie clearly marked the various gear positions.
'These follow conventional practice: Reverse on the extreme left; first gear, left and forward; second gear, left and batek; thitd, right and forward; top, right and back. With a direct drive of 54 to 1, the other ratios are $8 \frac{1}{2}, 123$ nind $20 \frac{1}{3}$, the reverse gear providing a reduction of 27 to to 1 .

From the gearbox a tubular propellershaft with Hardy-Spicer metal universal joints transmits the power to the underslung worm-drive rear axle. The


The engine of the new Super Nine is rated at $8.9 \mathrm{~h} . \mathrm{p}$. and develops 32 b.h.p. at $4,200 \mathrm{r} . \mathrm{p} . \mathrm{m}$. Although of unorthodox design its external appearance is quite normal.
owing to the springiness of the parts. A. araphite block is used for the clutch withdrawal, as on other 'rimmph models, and the toggle levers are adjustnble.

The genrbox is $\Omega$ well-ribbed iron casting in which four forward ratios and reverse are provided. The construetion, together with the use of full-depth tecth of a large pressure angle, goes far
very substantial bevel-type differential gear is mounted on taper roller bearings, as also are all four hubs. A point of interest is that a breather is fitted to the top of the banjo back axle casing: in order to prevent oil leakage.

The Lockheed hydraulic brakes operate on all four wheels, of course, and, as already mentioned, the reservoin is mounted very accessibly on the frout
of the dashboard under the bonnet- $a$ considerable improvensent over the old position unler the foorboards.

In the brakes themselves there nre trwo noteworthy features. Adjustment of each pair of shoes is carried out at a single point by means of a taperended serew which exnands the shoes through the agency of two short pushrels. Furthermore, provision has been made to allow water to drain away, should it ever get inside the drums. These are drilled, but as water might still collect on the other side of the shoe, the backing plate has a depressiou formed in it at the lowest point to allow the water to cscape. Recent weather conditions have offered ample opportunities to test this arrangement, and it is stated that the results base been eminently satisfactory.

The hand brake operates in a dre a immediately behind the genrbox, as on other Triumph models. Certain alterntions have been effected, howerer, as a result of which it is claimed that the action is much sweeter.

## Long Rear Springs.

The chassis frame presents no very unusual features except for the very broad eross-member at the rear, which curries the $\overline{\text { on}}$-gallon petrol tank, from which an Autovac feeds the carburetter. Semi-ellintic springs are used, and it is iuteresting to note that those at the rear are no less than 43 ins. lons, while the front ones measure 30 ins. Four Luvax hydraulic shock absorbers are fitted, and the five wire wheels with Magna bubs carry 27 -in. by 4.40 -iu. Dunlop tyres. In conmon with other Triumpls, the stecring mechanism is of the complete wheel and worm type and is adjustable.
The wheclbase of the new model is 7 ft . 3 ins. and the track is 3 ft . $7 \frac{1}{3}$ ins., while there is an S -in. ground clearance. Three body types are available. The standard four-door coachbuilt saloon has finger-tip control on the steering wheel for the ignition and for the lighting and the electric horn button is placed in the eentre of the wheel. Choke and throttle controls are on the faciaboard on each side of the instrument pancl, which is illuminated and carries ${ }^{2}$ clock, specdometer, ammeter, oil indicator and the ignition switch.

Leatherette upholstery is employed, and separately adjustable bucket seats are fitted at the frout. The single panel windsereen is of Protecto safety glass, which can also be fitted throughout at au extru charge of $f 3 \mathrm{~S}$.

In the de luxe saloon there are
ecrtain refinements such ns the use of real hide upholstery, l'rotecto safety alass throughout, and gaiters for the springs. The remaining Super Nine model has an open two-seater body with a dickey for a further two passengers. A "onc-man" hood nnd adjustable metnlframed windows are nlso provided, while the equipment in other respeets resembles that of the standard saloon.

## Chassis Alterations.

Reverting to the Super Seven and the Scorpion. certain important chassis modifientions are to be found in all exeept the three lowest-priced models of the Seven. Semi-clliptic sprimgs controlled by Luvax bydranlic shoek absorbers nie now fitted at the rear and the petrol tank is carried at the back, nu Autovac being used to feed the carburetter. On the Suncr Seven the tank capacity is $\overline{2} \frac{2}{2}$ gallons, while $7 \frac{1}{2}$ gallons can be carried on the Scorpion. In both ases and, indecd, on the new Super Nine, a reserve is provided by means of atwo-level tap placed under the dash, so as to be necessible from the driser's seat

In certain eases the new four-speed gearbox is standardized, and it is obtninable at an extra cost of five guinens on the other models. The Super Seven angine remains practically unaltered, but the Seorpion incorporates several modifications. The beariass, for example, have been improved and care has been tnken to eliminate oil leaks, particular attention having been paid to
the matter of kepping the ignition distributor frec of all oil mist. Dqually useful are the improvements which have been earried out in the belt drive for the cooling fau and the water impeller.

Unique, indeed, is the pillarless fourdoor saloon which is standardized on the Super Seven. Although four doors are desirable, it is at least debatable whether they do, in fact, carry any advantage when incorporated in a small car. In this ease, however, there ran be no doubt, because the absence of a central pillar between the two doors means that nlmost the entire side of the hody can be opened without any sort of impediment.

## Special Door Bolts.

Instead of the usual type of door lock, a special mechnnism has been designed by the Triumuh Company. In cach door there is a vertical bolt, top and bottom, spring-loaded, so that it projects through the frame of the door. Furthermore, the ends of the bolt are tapered so that the spriven, in forciner the bolts into the sockets in the body, causes them to fit tightly and therefore to prevent any rattle.

The ends of the bolts are also formed with a slanting surface as on an ordiuary lock, so that if the door is pushed to the double-ended bolt will recede and then sprigg into its socket when that is reached. $\Delta$ hande of conventional ap-
pearance is fitted to withdraw both bolts when it is desired to open the door, nitd as ench door has its own loolts the mere act of opening one of the frout floors does not release the one behind it. It is understood that this pillarless body has been tested extensively over all linds of road surface, iucluding some of the roughest in W'ales, and our representative was assured that it is the quietest of all the varions elosed bodies made by the company:

## Choice of Colours.

In general equipment and finish the body is similar to the standard saloon already described in eonnection whth the Super Nine chassis and, as in that case, a de luxe type is also availahle. In every ease there is a choice of five twocolour scherbes, namely, black and green, black and maroon, black and blue, blue :ud grey, or two shades of grey.
linally, mention must be made of the new four-door conchbuilt saloon on the Scorpion chassis. As the wheelbase of this model has been increased by ${ }^{2} \frac{1}{2}$ ins. to 7 ft . Sh ins., the loody is much mose soomy nud the four doors alluw the rar seats to be entered without disturbing the front passenger or the driver. All the doors are hinged at the front and a fulse mud wing is attached to each of the rear ones, so that when they are open only clean surfaces are likely to be touched by the passengers' elothing. In general outline, however, the body closely resembles the two-door Scorpion saloon of 19:31.

Shutters are fitted on the radiator of the new model Super Nine.

The cylinder head of the Super
Nine model inverted to show the
o.h. inlet valves and the unusual
combustion chamber shape.
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Door-locking arrangements on the "pillarless' saloon
body of the Super Seven. The spring-loaded bolt,
Door-locking arrangements on the "pillarless' saloon
body of the Super Seven. The spring-loaded bolt, shown in detail, secures the door both top and bottom.
 _


The new frame modified to take semi-clliptic springs. The large pressing takes the petrol tank and spare wheel.

" . . . meeting the wind here
6,000 r.p.m.
a little over 100 miles an hour . . ."

# Only ioo Miles an Hour 

## —But No Mean Speed, says "The Blower," who Gives a Graphic Description of a Three-figure Pace on Brooklands

How many people, I wonder, regard high speeds at I3rooklands as being a mere matter of sitting with a throttle open and motoring round and rolund:

Viery often, on being asked what is the fastest speed one has ever done, and leaming that it is 120, 130, or $140 \mathrm{~m} . \mathrm{p} . \mathrm{h}$., the questioner asks," "Where?"

On being told "13rooklands," the almost invariable reply is a disappointed "Oh," on a steadily falling cadence, ats if to say, "That's nothing!"

Amt yet is $100 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. on the track nothing? Come with me a minute.

The track on a day in mid-week. One or two test cars from a famous factory are steadily going roundslowly, you say?

Well, perhaps-if $\$ 0 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. be slow. Don't believe me? Never mind, you will soon learn that the huge size of Brooklands and the breadth of the track utterly dwarfs speed-for the spectator.

A leather clad and helmeted motorcyclist clatters across the paddock on his gleaming machine and disappears behind the row of sheds. A group of people
stands around a low-built machine destined for record attempts; some last-minute moditication has proved troublesome, as we can gather from the worried air of the white-clad mechanics.

Overhead hums a Moth, circling the aerodrome before it lands, and far away across the track comes the clatter of an express train on the main line running parallel with the Railway Straight.

Here is our car with the mechanic filling her up and adjusting shock absorbers.
"Tyres all right, Joc?"
"Yes, sir. Everything O.K., sir."
"Good."
Come on, let's get on board. Take these goggles; you'll need them. Tes, this is a modern racing 14 -litre car. No wings, no screen, no comfort?-Well, this is not a tourer.

I switch on, Joe jerks the handle, and a harsh metnlic crackle bursts from the exhaust, beating in the car-drums as an almost tangible thing; the rest of the world seems shut of behind the curtain of that noisebut one gets used to it.

The rev, counter needle flicks spasmodically from

0 to 4,000 and the scream of the engine rises and falls with the revs. We move of slowly through the paddock with the engine sending up a deafening whee! whee! whee!
Yes, very humpy, isn't it; almost shakes the breath from one's body.

We turn out on to the track and splutter up the slope towards the Members' Banking. Never realized the width of the track? Pcople thn't-nor the bumps!
 the needle-5,000 . . 6,000 . 6,500
bang! as the engine cuts in on second
same
again inte third . . . We're beginning to move now toll gear 5.000 r.p.m.

The wint snatclies at us, blows our breath away and tears at our goggles. My pāssenger's tie is whipped past his ear and flutters there; he gasps for breath and grips the side of the car.
We cant over and take the Byfleet banking half-way up at so m.p.h. Crash!-only a bump-bang! another-and another.
Jolted you? That's nothing; wait for the Fork!

## Crossing the Fork

Here we are. The wheel dithers madle in my hands: the instruments dance in a blur; the front of side wheel leaps up and down.
The thermometer is nearing its proper place now and I begin to open up a little. Swish! That was the Members Bridge, and there ahead is one of the cars my passenger thought were going so slowly. We are doing just on 90 now and overhauling him slowly and steadily. We pass and bounce off the banking on 10 the Raiway Straight.
We are meeting the wind here . . . 6,000 r.p.m. That's a little over 100 miles an hour. Up and out we scream on to the banking: much higher this time. and the car leans and shudders on the irregularities in the concrete.
How the strident howl of the exhaust is flung at us as we hurtle past Vickers' works and streak up the hill!
The wind is terrific now; like a solid thing forcing one's head back, so that one humps shoulders nud crouches to meet it.

How hot the inside of the car has become! Oil fumes are blowing back, the cushions have moved and we are being bumped and crashed about as though crossing a concrete sea. We are quite high up as we hash down towards the straight at 110 m. p.h.-and then we take the big bump on the bridge over the river.

C'rash! We come to earth, having been thrown hate out of the car-or so it seems. The wheel wrenches at my arms and the front wheels seem to have no bearing whatever on the rear ones.

## Along the Straight.

We hurtle down to Byfleet again and the tilt of the concrete seems to rush towards us: the next moment there is a flick as we flash under the foutbridge.

I glance at my passenger and see a man with windwhipped face, his cheeks stretched tighty with the terrific force of air; his goggles have shifted sideways, his hair is blown straight back and he is being shaken like a jelly every second as he crouches huddled on a cushion which is rapidy leaving him only bare stepl on which to bounce about.

I slow down gently: 6,000 r.p.m. reaphears, the exhaust note falls steadily: a hundred-ninety-eighty -serenty-I cul-out.

The silence seems uncanny, the car sems pottering along, the shaking has diminished and we tour round to the Paddock at $60 \mathrm{~m} . \mathrm{p} . \mathrm{h}$.

Like it? Except for the bumps? Just so.
We turn slowly into the Paddock and pull up. My chow, I discover, is very bruised, my back aches a little and for the life of me I cannot hold the match steady to light my cigarette!

Joe comes smiling to us.
"Wanted holding a bit over the bump, sir?"
I nod.
"You wasn't half treadin' on it, sir. She lnok nff for about 20 yards. Fior a minute I thought you was going to have a nasty one, sir."
"So did I," I reply; then, seeing the lnok of horror on my'dishevelled passenger's face, "Come and have a quick one.

## KEEP A DIARY

D0 you remember --" is one of the most delight ful phrases in the English language: it is one of the current coins of friendship and one of the firmest links that ever bound two people together.

It isn't the remembrance of the big things that give us that thrill of pleasure: it is the almost forgotten trifle which brings a glow. So add up your trifles, and when you go for that most delightful of all holidaysa motor tour-beep a diary.
I do not mean the usual sort of diary:-Monday: Went over York Minster. Had lunch with Cyril and Mary: Jack got stung by a wasp. Tuesday: Two punctures. Had letter from Aunt Mabel. Bought some new collars.

No. the holidar journal is a very different thing.
Get a stout exercise book with a good stiff cover, and leave two or three pages for each day's route. Stick your snapshots on one page, if you like, and opposite note down all the incidents of the day.
Describe the ruined castle that you visited, the lovely view and that mexpected glimpse of the sea or the moors. If you enjoyed your lunch, say so ; and note down the place where you had your pienic, whether it was a spot to be visited again, or whether the midges were ton insistent.

Set down the name of that village which you felt you must come and explore some day, or the direction of the road which made you feel that you'd love to see what was around the corner.
B16

## OF YOUR TOUR

Then there is that little bit of local information that the postman gave you when you asked the way, and you can describe that curious-looking individual who stood gazing at the Market Cross. The type of scenery, distances, the surface of the roads, even the gradients thereof can become interesting.

You may find a windmill turned into a delightful dwelling, the curious name of atreet or an inn sign, a particularly good garage, a quaint epitaph, an old wooden mill, an enormous reservoir, the works of some firm whose goods you have used for years and never knew where they were made, a strange bird, the date on the old bridge where you ran out of petrol. The list might be expanded indefinitely.

To write well as you travel in the car is impossible and a penny motobook to jot down your thoughts as they occur is desirable. They can be transferred to your diary later.

At first you may find your pages blank, but it is amazing how quickly the power to describe the little things that you notice comes, to you. Never mind the polished phrase or the sonorous period; write in your own words, no matter how simple they may seem.

A diary like this is a perpetual joy, for not only can you recapture a glint of summer sunshine on winter evenings, but as, perhaps years later, you travel the same road once more you will feel the happy glow of one who sees again all the quaint, delightful mannerisms of an old friend.
P.P.

## Touring Attractions in Northamptonshire


(1) Kirby Hall, built in 1570 , last inhabited in 1823 by the Earl of Winchilsea and now almost a roofless ruin, has few rivals in architectural magnificence. It is approached from Little Weldon, on the Stamford-Kettering road. (2) A glimpse of the peaceful village of Sulgrave, a haven of pilgrimage for all patriotic Americans. It is 5 miles N.W. of Brackley. (3) Aynho, another of Northamptonshire's show villages; it lies on the Banbury-Bicester road and is noted for its apricot trees trained to the stone walls of the houses. (4) The manor house at Pytchley which is situated close to the site of the original Elizabethan manor house pulled down in 1839. (5) The Eleanor Cross which stands hard by the London road, a mile out of Northampton, and is preserved by the National Trust.

# Why Waste Good <br> <br> OPPORTUNITIES? 

 <br> <br> OPPORTUNITIES?}


A Car Provides Endless Possibilities for Enthusiastic Owners. The Following Hints are Offered to Beginners for What They Are (or Are Not) Worth

"... any ellipticality (or esgism) becomes at once apparent ..."

THE neophyte (or tyro) should first see that the wheels are not elliptical. because ellipticality of the wheels is almost certain to be prejudicial to the smooth running of the rehicle and may, indeed, produce serious bodily discomfort on a prolonged trip.
To test the wheels for ellipticality-or, as it is commonly called, eggism-proceed as follows:-Obtain (or procure) a strong coiled steel spring about $\overline{5}$ ins. in diameter by 6 ins. high and fix fimm on to the top of the head by menns of a dab of goldsize. Any respectable spring chandler should make up such a spring for a few coppers. Thus equipped, the novice (or beginuer) should now sit firmly behind the steering wheel and drive the car at a fast pace along a stretch of good road, when any ellipticality (or eggism) becomes at once apparent by the driver being thrown violently against the roof of the car at each revolution of the wheels.
The function of the spring is merely to soften the repeated blows on the head which otherwise become a source of nnnoyance, and also to return the tyro (or neophyte) neatly and quickly to the driving seat.

## Fit Some Round Wheels.

If the test shows the wheels to be oral, denoting eggism, two courses are open to us. Course one is 10 fit an entirely new set of nice round wheels, reserving the oval ones for those occasions when the car is borrowed by the Jenkinses, and course two is to make the best of a bad job by always wearing the spring.

A little puncture-mending practice will now not be out of place. Take an outsize in darning needles, press firmly aud repeatedly into all the tyres and remove all the wheels. Now remove the inner tubes. One way of doing this is to strip the outer covers first. Another method is to poke the tubes out through the spoke holes

(first removing the spokes) with a crochet needle; but this takes a very, very long time and they are never quite the same afterwards.
Now examine the tubes thoroughly with a gond hand lens (or magnifying glass). Having looked at them for 6 hrs. 37 mins. you will no doubt be impressed by the number of spots which look like punctures and which aren't, and also by the number of places that (lon't look like punctures and which probably are. Hut don't worry. Patch the lot and sturt the tubes back.

The car being now thoroughly overhauled $t h e$ enthusiastic tyro (or novice) will not unnaturally wish to take it ou the road. And a very natural wish, too. After all, that is what a car is for. At the same time, it should be borne in mind that there are many delight-

". . . poke the tubes out through the spoke holes. . ." ful and intriguing uses over and above those of a purely vehicular nature to which the new saloon car may be put.

One rather bright idea is to jack up the car on a few artistic mossy boulders, remove the wheels and use the body as a chic little summer-house rluring the hot weather. A final piguant touch is added by tastefully grouping a few tubs of rhododendrons or mustard and cress on the roof.

## Fine for Fish.

Perhaps the most engaging characteristic of the saloon car, however, is its ready adaptability for use as a movable aquarium. For this we shall merely need to bore a few holes in the roof with a hot poker. sprinkle a little gravel and a few rocks on the floor, and putty up any likely sources of leakage. Now fill to within 11 1-7 ins. of the top with some reliable brand of water such as is delivered by the corporation or the weather forecast.
When the former is not available, due to non-payment of rates or some such trifing cause, and the latter nonexistent owing to the forecast being a wicked untruth, an excellent idea is to go round the garden in the early morning with an egy-cup) and a saltspoon and collect the dew from the lerbaceous borders. About seven hundred million saltspoonfuls (or saltspoonsful) will be required. Our aquatic pets are now introduced through the ventilator in the roof and fed once every lunar month with a misture of celluloid, molasses and cotton-waste.
This use of the new saloon is sure to be most fright-
fully rogue this senson. Latly Woggleton has recently put her new Burblewimp six to this delightful and instructive use, and writing in The l'uddlethoaite //crald says, "There can be nothing more uplifting than the spectacle of a full-grown helix stagnalis wistfully gliding across the speedometer dial, while the airy grace of the lesser pink-bellied newt as it rests on the steering whece must be seen to be appreciated."
Soner or later, however, there comes a time when the study of pond life palls somewhat and our thoughts

Lurn with the passing of the years to, let us say, a portable orchard. Nothing could be simpler. Merely open the donrs momentarily to let out the water, remove the roof, fill up the body with some nice sandy loam, plant a handful of fruit seed and wait a few years. Result-a nice compact orchard that can be stood on the lawn during the day and wheeled into the garage overnight, thus removing temptation from the village lads.

Good-night ererybody. GOOD-night. L.E.

## CAMPING IN THE RAIN

THELE is mothing to beat a holiday under canvas, indepenslent of crowded hotels, providing the weather is fine and warm ; but although it may promise goorl weather when you lirst set out, there is no ghtrantee against a bad spell of wet. When this dappens there is nothing to to save make the best of it or admit defeat and cast yourself on the mercy of the nearest fontel-keener. No one likes to be beaten, however, so it is just as well to have some idea of the best ways of dealins with the situation.

Supposing it starts to rain just as you are about to make camp. If the tent has a flysheet, this should be crected lirst, so that the tont itself can be put $u_{1}$, under cover. This advantage alone makes a fly-sheet well worth the slight extra weight over the single tent: an eren greater advantage, howeser, is that it leephs quite dry inside even in the wettest of weather. As the ground will doubtless get soft owing to the rain, two tent pegs should be used for each guy instead of one, the two being knocked into the turf in line ahl about a foot or a foot and a hate aport.

## Keeping the Kit Dry.

Pitching a tent on wet, soft ground calls for thought, especially if it is ratining cats and dogs at the time. It is a problem unless you go the right way to work. Fverything but the outside of the tent must be lent dres ; and, as already said, if you have a flysheet get this up first. But supposing you have only a lightweight tent; first place all baggage and boxes and blankets on a ground sheet :mb corer them with other waterproof material. Now set your tent pitched, and when you have this un, and properly secured, transfer the luggage from under the ground sheets into it; if you can aford a spare tent for haggage all the better; get this up first, put your stuft in, and then crect your "living room."

Whilst members of the party are busy getting a fire going, and generally putting things to rights, one man should take a trenching tool or spade and dig a channel round the tent under the eaves to catch the drippings; the trench should end with a lead-oft grip to drain the surplus water away. Considerate campers always remove the turf carefully and place it at the side of the trench where it makes the trench more eflicient and is ready for easy replacement when the camp is struck.

There will be a diflicully in getting a cheery fire going in wet weather, but if the camp is on a farm a bag of dry logs and sticks can often be obtained for a few pence. One adrantage of being on or near a farm is that if your clothes are saturated you can


In wet weather a channe! should be dug around the tent, under the eaves, to catch the drippings and lead the water away.
change into dry togs after the tent is erected and persuade the good wife at the house to dry gour wet things at her fire. A good cooking stove settles cooking dithiculties when sou cannot keep a fire going.

A good tip in rainy weather is to put under the tent pole two pieces of board about in. thick; then, if You suspect, during the night, that the guy ropes are gelting too tight, lift the pole slightly, knock out one piece of wood and lower the pole again; by doing this you will avoid having to get out of your blankets into the rain, as you can manage the job as you sit up in bed. Always see that the guy ropes are not very light when rain comes on, and be careful not to touch the canvas roof inside the tent when it is raining, otherwise a leak will result.

It is also wise to be careful when parking the car. If the field is undulating keep on the higher ground and avoid the hollows, as when the turf is very soft it is an easy matter to get bogged and bare some trouble- in starting away when the time comes. If camping quite near to a farm it may be possible to lave the car under cover of a shed or garage, and this is a wise plan if sou have only a short distance to carry the equipment.

## Packing Up.

Paching up in wet weather also calls for some consideration. Wet tents are not easy things to handle. It is a wise plan to pack all utensils, food, bedding aud so forth, first, and then transfer as many of them as possible into the car; any that have to be packed on the running boards or luggage grid should be placed handy and covered with ground sheets. Next 1ake down the tent, fold it neatly and pack it on the car. The other goods can then be placed in position and kept covered with the ground sheets.

On arrival at home, immediately spread open the tent in an outhouse or spare room, and then take the first opportunity of drying it by opening it full out in the sum. Do not pack up the tent permanently until it is thoroughly dry.

From the foregoing motorists who are thinking of camping, but who have not actually taken the plunge, may imagine that camping is a thoroughly unpleasant business unless the weather is perfect. This, however, is by no means the case once you get to know the ropes, nud camping enthusiasts are not in the least put out by a spell of wet. They even, in fact, take a delight in the steady patter-patter of the rain and derive intmense satisfaction from the fact that, although it may do its worst, the weather cannot defeat their precautions.


Rhineland in Wales. - Deganwy as seen across the river Conway.
Rich Mixture

Light Car Comment and Advice
by pores.

## At Dovercourt.

ALL through the summer I have been promising myself a weekend on the Essex const, but it was not until after tea last Saturday that I was able to get away. Taking the northern route through Bishop's Stortford, Dunmow and Braintree to Colchester, I found the roads in a greatly improved condition and, with an ever-present threat of rain, almost entirely free from traffic.
Dorercourt, which adjoins Harwich, provided a very comfortable night's rest at the Cliff Hotel, a Trust House, overlooking the sea. It was the first time I had been to Dovercourt for three or four. years, and even in the thick of last weekend's storms and tempests it seemed more alluring than ever. A certain amount of development is going ahead along the lines of providing an amusement park, but Dovercourt is still essentially the very quiet refined family resort that it used to be. At Marwich, near by, one can spend a very interesting morning amongst the flotsam and jetsam of river and seagoing vessels in the harbour.

## Camping at Walton.

LEAVING Harwich at about midday on Sunday, 1 went down to Walton, endeavouring to find a quiet spot on the coast road. If you look at a large-scale map you will find sundry small lanes which lead from the Marwich-Walton road to the coast. Some of them, however, fizzle out before they get to the shore, whilst the others communicate with an explosives factory and the way is barred.

At Walton it was very quiet, with great waves breaking over the front. $\Lambda$ t the northern end of the promenade, roughly speaking adjoining the Lastcliffe Hotel, and in a field partly occupied by в20
a miniature golf course, I found a sprinkling of light car owners and motorcyclists making the best of the weather under canvas. It is a magnificent camping site, within about $\overline{5} 0$ yards of the sea, and the ground is hard and well drained. To camp there with a motorcar and tent or caravan costs Es. Gd. for 24 hours, Es. for the weekend, or 7 s . 6 d . for a week. Fresh company's water is laid on to the field and is free, whilst excellent lavatory accommodation is at hand. This enterprise should be well rewarded if it is carried on next year-and I am told that that is the intention.

## Frinton Wanted a Bob, so

WAliSON, like Dovercourt, impressed me as having popularized itself to some extent since I was last there. The bathing facilities seem now to be first rate, and there was plenty of gaiety in evidence in the area around the shore end of the pier, although one had to dodge the waves when getting about on the promenade.

Frinton, where I went for tea, charges you a shilling now for allowing you to park your car on the wide promenade - so I went on to Clacton and had tea there instead. One pictures this very popular Essex resort as being not the best place in the world for taking tea quietly and peacefully on a Sunday afternoon. At the Grosvenor Court Hotel, however, there was plenty of room in front for leaving a car and the service was prompt and everything just as it should be.

## First Rate for a Quiet Sunday.

AFTEIR tea I went on to St. Osyth's Beach, about which I have heard a good deal of late. This, undoubtedly, is an absolutely first-rate place for a quiet Sunday beside the waves. The beach,
which is three or four miles long, is reached hy a well-signposted road from St. Osyth, and, by paying Gd., one can drive on to it and along it to one's right or left from the road, which dead-ends there, for rather more than a mile in one direction and puobably rather more than two miles in the other.

Near where the road is left there are rows of hathing huts anf little wooden bungalows, but farther away from the road and, of course, still at the water's edge, one can park, picnic, camp, bathe from carrs and do whatever one pleases.

## 64 Miles from London.

AN A.A. man on duty at St. Osyth's Reach told me that the greatest number of cars he has known there at a week-end has been five or six humbed, hut that generally the number is much fewer-although growing. I can thoroughly recomment this patce to family folk who can enjoy themselves liy the seaside without the aid of artificial amusements aud who want to be sure of not being chivvied about by officials or otherwise interfered with.

The beach is about 2 miles from St. Osyth, which is a little uver 10 miles from Colchester: Colchester, by the way, is only 22 wiles from Chelmsford and $5:$ miles trom London.

## On a London Stage.

ONE of the most amusing evenings I have spent for some time was passed at the Apollo Theatre in Shaftestury Avenue, London, last week, when I saw the farce "Queer Fish." It is very amusing from start to dinish and one act provides definitely the fumiest motoring dialogue since Harry Tate's fimous sketches.

A party is en route from London to the country in the middle of the night with an extremely aged Singer 'Ten tourer, which, of course, breaks down. It las no starter, and every time that Father laboriously takes his seat after cranking it the engine stop)s again! It begins to rain and stops immediately the hood (after a fearful struggle) has been raised. Simple stuff, but it keeps the house in roars of laughter.

## Motoring Set to Music.

WTHFN the curtain was about to rise on the motoring act of "(ueer Fish" the orchestra played "Get Out and Get Under," a song which must be well over 20 years old.

How odd it is that motoring has no other distinctive song or ditty akin to "A Life on the Ocean Wave," "D'ye Ken John Peel," and so forth. These, arlmittedly, are not "chickens," but, at any rate, they were composed when sailing the seas and hunting the fox had been practised for a great many years and occupied an established position in the world's affairs. Surely there is fame, if not a fortune, waiting for the man who can set motoring to music.

## Cyclecars Doing Well-

HAVING always been a champion of threewheelers, I have been very glad to see them making such considerable progress in public esteem during the past 12 months. The concerted efforts of the makers of the Morgan, the B.S.A. and the Coventry-Victor have borne very useful fruit, as the following figures show. They indicate the number of new machines which have come on to the roads during the past six months:-

| Janmary |  |  |  | 1930. | 1931. |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | ... | $\cdots$ | ... | 74 | 1:11 |
| February | ... | ... | ... | 58 | S:3 |
| March | ... | $\ldots$ | ... | 134 | $23 \overline{5}$ |
| April ... | $\ldots$ | ... | ... | 123 | 266 |
| May | $\ldots$ | $\ldots$ | ... | 114 | 30:3 |
| June | $\ldots$ | $\cdots$ | ** | 142 | 278 |
|  |  |  |  | $6 \pm 5$ | 1,296 |

## -And Baby Cars, Too.

TrROM the official source from which I obtained these figures I see that during June the f8-tax four-wheeler is continuing its all-conquering career, British sales for the month totalling 3,464 , compared with 3,143 last year. In only one other popular class were the June figures this year ahead of those for last year, viz., cars paying a $\ddagger 10$ tax. The June sales figures for this year were 1,272 , and last year 922 .


BESIDE LAKE
WINDERMERE.

That the trade as a whole did not have a very flaming June is shown by the totals. This sear they unloaded on to the public 12,584 cars all told, last year's figures being $13, \overline{5} 80$. Motorcycle and hackney carriage sales were also substantiaîly down. It seems that the time has delinitely come when Chancellors of the Exchequer must call a halt in taxing transport. The goose which has laid such golden egrs is going-like my pulletsinto a moult! And next year-unlike my pullets (I hope)-it will lay smaller eggs instead of larger ones.

## Compulsory Insurance-a Monstrosity?

IF I were a member of Parliament 1 should get on to my hind legs after the Recess and ask the Minister of Transport if compulsory third-party insurance has proved to be a cumbersome monstrosity or if it is a success. If the answer to the latter question proved to be in the aflimative, I should be inclined to ask him for figures. I should also be inclined to ask him whether he considered it wise for the scheme to be continued without issuing some more regulations.

No doubt all these questions would be ruled out of order, and I should get no satisfaction. İven so, however, I am convinced that all right-thinking men of every sestion of the community hold the opinion that with compulsory insurance the only proper plan would be for premiums to give complete legal indemnity and for policies to be so worded that nobody need fear contrarening the Act uuless they fail to pay their premiums. I think that every motor insurance policy should be entirely free from provisos so far as their compulsory aspect is concerned, and that pifling restrictions should get the insurauce company rather than the assured into trouble.

## Lord Ridley-Record Breaker

AFEW days ago I met, for the first time, Viscount lidley, whom you see here. It was the day after he had so satisfactorily broken the flying mile and ilying kilometre 750 c.c. records with a very interesting car of his own design. When I came
 upon lim he was busily engaged in stripping the engine after its record run. Oue might have expected to tind some evidence of pritle in a man who, working entirely on his own, had succeeded in beating so hantsomely the best efforts of the Austin, M.G. and Morris enthusiasts. But one would have been disappointed. True, he seemed quietly pleased with things, but it was with the greatest dificulty that I could get this clever young man to talk of his exploits or the details of his car.

But I did learn that he had been working for a very long time on the car, that, excent for the supercharger and the clutch unit, the whole thing was his own design, and that, at $105 \mathrm{~m} . \mathrm{p} . \mathrm{h} .$, it sat on the track as if on rails.

Tall, broad, spectacled and cordial, a very clever designer and, that rave thing, an enthusiast-that is Viscount Ridley.


BETWEEN MANNINGTREE AND MISTLEY.

A delightful view on the banks of the Stour, beside which the road runs for several miles. "Focus" writes this week of the seaside towns in the district.

Iaccordingly liable to the penalties prescribed by the Act. These penalties are, in the wording of the Act:-

A fine not exceeding fifty pounds or imprisonment for a term not cxecesing three months, or both such fine and imprisonment, and a person convicted for an offence walder this section shall (unless the court for special reasons thinks fit to order otherwise [Our italics.-ED.] nud without prejudice to the power of the court to order a longer period of disqualification) be disqualified for holding or obtaining a licence under Part 1 of this Act for $n$ period of twelve months from the date of this conviction.
It will be seen that the hardship from which these unfortunate folk who have had their licences suspended are suffering has been imposed upon them not by the Act but by the courts, for the wording of the Act specifically invites the courts to consider whether licence suspensions should be a part of the penalty. There is no onus upon the makistrates to impose suspension and it seems quite reasonable in cases where they have done so and there has been no evidence of deliberate law-breaking (" special reasons" we suggest) that the Home Oflice should intervene.

## More Light Cars.

THIS week we are able to publish the second of our big light car manufacturers' programmes. Three weeks ago we gave details of a very interesting range of Standard models and this week we describe the new Triumphs. Both these leading Coventry makers have introduced a new light car model for the coming season and it is arready abundantly clear that competition for the light car enthusiast's custom during 1932 is to be quite exceptionally keen. His malate will be tickled with many new designs and the predilection he has always had for cars of individuality will be catered for in a very generous manner.


## Licence Suspensions.

 Himert has been a considerable amomet of дewspaper discussion of late concerning cases of hardship which have arisen under the compulsory third-party insurance section of the Road Trallic Act. it has been disclosed that several drivers have lost their licences for contravening restrictive chanses in their insurance policies and thus putting themselves in the position of being uninsured, and
## Topics of the Day

## Conducled by EDMUND DANGERFIELD.

TEMPLE PRESS LIMITED<br>5-15. Rosebery Avenue London, E.C.I.<br>Inland Telegrama - "P Preiolmas, Molb, Iandon.<br>Cablen - "Prenaimas, Lonado."<br>Teleplane - Clerken=ell cooo.

We look forward to introducing our readers to a clever new "six" next week, and another the week after. During the next few weeks we shall be giving particulars of the programmes of many other leading manufacturers. We expect to be able to annonnce that at least two famous makers in the motorear world, who hitherto have concentrated entirely on medium-sized and large cars, have entered the light car market, whilst a third, who decided that they would forsake the realm of light cars nearly 10 years ago, will be reappearing with an under-1,500 c.c. model. The portents at the moment are that before very lon there will be hardly a British maker left wh has not a light car as one of the principal attrac tions in his catalogue.

## In the T.T.

TLHE Royal Automobile Club's Tourist Trophy race which is due to be held to-miorrow has attracted au entry of 51 cars, of which 4 S are expected to start. Of this number 31 are light cars-that is to say, they hare engines of less than 1,500 c.c. Examining them it is noticeable that the majority are in the 750 c.c. class. There are 15 of these and all save one are supercharged. The results in this class will be very eagerly watched because, for the first time this season, the two principal makes which take part in road races will meet in a big event on a level footingboth with supercharged engines and both with precisely the same handicap.

In the 1,100 c.c. class the six entrants are all of one Corentry make with the exception of one which comes from Italy. The unsupercharged Coventry cars will welcome this foreign challenge. In last year's leading races they had the 1,100 c.c. class too much to themselves. The 1 -litre class has seven entrants and three makes are represented. Again all with the exception of one are unsupercharged.

No doubt, unless one of the light cars comes home first, the cars in the 3 -litre, 5 -litre and S-litre categories will get the lion's share of the limelight which this great race will shed. There will be marvellous performances put un, however, in the light car classes, as next week we shall record.

## Hints to Users of

## LUVAX SHOCK ABSORBERS

## The Working Principle of a Popular Hydraulic Damper - Correct Maintenance Methods

ToO understand the action of any shock absorber, one must realize that its purpose is to get rid of a certain amount of energy. This may seem to be a curious statement but it is the bnsis of the whole thing. 'To bend a spring out of its normal shape, energy is required and that energy is aiven up by tho spring when it unbends.
When a car whel strikes a bump in the road energy is relensed or, to be more exact, is diverted from one channel to another. Presumably the ensine supplies the cuergy in the first place and this accounts for the fact that more power is required to travel along a rough road than on a smooth one nt the same speed. That is by the wny. The important point is that, if nothing


Jou e's experiment to show the meehanical equivalent oो heat. The revolving paddles raise the temperature of the water, thu: converting mechanical energy into heat.
is done about it, the energy will be transmitted to the driver and pnssengers and will cause them discomfort.

To prevent this springs are used to absorb the energy, but lbey will disgorge it again at the carliest opportunity. If they are not checked in some suitable way they will give ull the energy so violently that it will be transmitted to the ear aud to the passengers, much as the original bump would have done had there been no springs at all.
linergy can take various forms but seems most ready to assume the form of heat. In reasonably small quantities heat can easily be passed to the surrounding atmosphere, and this is acnernlly the most convenient method of getting rid of it. The problem, then, is to convert the unwanted energy into heat, and this can be done quite easily if the enerisy, in escaping from the spring, is made to overcome some kind of friction.

An casy way of converting almost any other form of cueryy into heat by meaus of fluid friction is to make it force a fluid through a small hole. Place a finger on the outlet of a tyre pump winle the plunger is rapidly depressed and it will be noticed that the finger is heated as the nir rushes out. This shows that mus:ular energy has been converted into heat. The same thing happeus in a

This section of a Luvax shock absorber shows its ingenious construction. The purpose of the various parts is explained in the text.


Luvax shock absorber, but the punp has a different shape and oil is used instend of air-simply ns a matter of practical convenience

In this ease the pump consists of $n$ cylindrical chamber with a spindle mounted along its centre line. Formed in oue picee with the spindle is a vaue -or rotor, as it is ofticially termedshaped so that it fits accurntely within the eylinder. If the spindle be turned the rotor will sweep round inside the cylinder and carry all before it. I'art of the eylinder, however, is ocempied by a metal block so that the space is divided into two parts, one on each side, between the rotor nud the block.

Un the outer end of the spindle there is a lever which is convected by a suitable rod to the axle, so that as the latter moves up and down the rotor sweeps back nud forth in the cylindrical chanber.

## The Oil Reservoir

Around the outside of the eylinder is a casing which forms a reservolr and this, tomether with the two spaces inside the eylinder, is filled with a special oil -" special" chiefly becauso its viscosity or frictional quality does not alter uppreciably with changes of temperature.
In the fixed reaction block soveral passnges are drilled. 'Two of them pass from one side of the block to the other and one of these is provided with $n$ ball valve arranged so that the oil can pass only when the axle is moving upwards. This passage is sulficiently large to offer comparatively little resistance to the movement of the oil from one side of the block to the other. Consequently, as the road spring is compressed very little resistauce is offered to the process.

The other passage is controlled by an adjustable tapered " needle," which can easily be set to offer much or little resistance as required. Through this the oil must pass as the spring is reatining its normal shape, and it is here that the energy is converted into heat, as bas been described.

So much for the essentials. Amonast the details mny be noted various ball valves coutrolling holes in the wall of the cylindrical chamber.

Near the lowest part of the cylinder are two or three holes arranged so that dil cau flow from the surrounding reservoir iuto the cylinder and keep it full.

The ball walves prevent it flowing in the opposite dircetion.
If oil should leak out it is just possible that air might leak in to take its place. It must not be allower to remain however, therefore holes are birilled at the top of the eylinder to let it out. Here ngain are little ball vallyes which close automatically if oil tries to pass through them, but they let the air zo without much difficulty.

In these various ways almost every possible trouble is fuarded ngainst. Only oue point remains to receive attention. The Luvax quite definitely will not work without oil. Thanks to the re-


An hydraulic principle used in the Luvax. The rate of movement of the piston is governed by the size of the fluid escape orifice.
servoir, it carries enough to last for quite a long time, but at least every $\mathrm{s}, 000$ miles it is wise to unseres the licxagon-headed plug on tho top and to fill up with genuine Luvax oil.

As to adjustment, this should rarely, if ever, be necessary after the Lucas experts have fitted the shock nbsorbers to the car, but it is a simple job. Take out the same serewed plug and inside will be seen a small sloticd serew hend. In some cases there is a lock nut which must be undoue; in others a spring, bearing on the flat side of the screw head, holds it firm against vibration but allows it to be turned easily with a screwdriver. If the shock absorber is to be "tightened" turn tho sceew head clochwisc. If it is already having too much effect, turn the screw in the opnosite direction. Never malse more than a quarter of a turn at a timo -and do not forget to tighten the lockwut, if one is fitted

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# IDEAS 

T'HE choice of a sparking olug or 5 s. is offered for cvery reader's hint published in this feature. No hint should exceed 200 words in length ; il necessany a rough sketch should accompany it and the sender must indicate whether, in the event of publication, he prefers 5s. or a sparking plus.


## A Decarbonizing Hint.

AX important part of decarbonizing-and one that incidentally, fery often neplected-is cleaning out the valve ports. This is a fiddling job, and in the case of side-valve engines there is an additional trouble
 owing to the fact that carlon dust and chippings are apt to find their way into the valse guides and so into the valve clest-in both of which places foreign matter is extremely undesirable. A simple way out of the difficulty is to place in the guide an ordinary bolt, the head of which is slightly higger than the diameter of the gnide, as shown in the sketch. This will offectively mrevent carbon dust from entering and, of conse, is no trouble to remove.

## Exhaust-manifold Nuts.

OWING to the amount of heat generated, steel nuts used for securing the exhaust manifold to the cylinder block are ant to seize on the studs, making removal very difficult. It is worth while, therefore, to substitute brass nuts, as these will not stick. A point to bear in mind, however, is the fact that brass is a comparatively soft metal, especially as it will be in a continuously annealed state when in the form of an exhaust-manifold nut. It is, therefore,-important 10 take care that the spanner used on the nuts is an exact fit, otherwise the hexagon can very easily be burred.

## Grinding-in Jowett Valves.

TTLE normal screw-driver method of grinding-in valves cannot be used on Jowetts without removing the front wings, as the valances restrict the space. On models previous to 1930 the casiest way out was
 to remore the wings, which could be detached very readily. On the 1930 and 1931 models, however, remoral or the wings is a much longer job, owing to the fact that the laums have to be disturbed. The job can, however, be done quite eftecfively with the wings in posiion if an adjustable spanner and a washer are used in place of a screwdriver for turning the valve. The washer should be gripped in the jaws of the spanner with a piece of rubber packing to give a firm grip, the spamer actually being tightened by means of pliers.

It will be found that this improvized valve-grinder makes the job quite easy, and if the jaws of the spanner hare been firmly tightened no dificulty will be found owing to the latter constantly working lcose.

## Leaking Crankcase Joints.

SLIGHT oil leak from the joint of a crankcase can usually be cured, without the need for removing the sump and fitting a fresh gasket, by painting the outside of the joint with almminiun paint. The oil should be carefully cleaned away first and one or two coats of paint may be given.

## A Useful Class Polish.

$T$ is claimed that a brilliant polish can be obtained on the windscreen and windows of a car by the use of a polish consisting of 2 ozs. of prepared chalk, $\frac{1}{2}$ oz. of liquid ammonia and 6 ozs. of methylated spirits. The ingredients must be well mixed and kent in a corked bottle. The mixture must be well shaken before use and applied to the glass with a cloth. It is allowed to dry and then polished off.

## Austin Gear Lever Gaiter.

AGAITER for covering the gate and part of the gear lerer of an Austin Seven can easily be made at home. Cut four tapering strips of leather cloth or thin real leather, and sew them together at the corners
 to form a square box section. The length of the strips should be 4 ins., aud they should taper to provide an opening $1 \frac{1}{d}$ ins. square at the top end and $2 \frac{1}{2}$ ins. square at the bottom. The top eurl is hemmed round to take a piece of elastic which will close up the gaiter round the lever. whilst sewn to the hottom end are four further pieces of leather, each 6 ins. wide. These arc intended to pass over the gate turret, around which they can be secured by a tight string or an elastic band, the completed gaiter having an appearance similar to that shown in the sketch.

## A Cause of Misfiring.

ON cars fitted with coil ignition a tendency tomards misfiring can sometimes be traced to a faulty earth connection on the coil or to loose terminals on the lowtension connection to the contact breaker. Furthermore, in some makes of distributor the condenser is connected across the contact points by means of short wires and rerminals. Should the terminals become loose, the condenser may be put partly out of action. This will result in excessive sparking at the points, with consequent pitting.

As it is impossible, howerer, with the normal type of distributor to watch the contact breaker whilst the engine is rumning, one cannot be certain whether or not excessive sparking is taking place. It is the more important, therefore, that great care be taken to see that all connectious are clean aud properly tightened.

By L. MANTELL


#### Abstract

The Solution to Last Week's "Teaser"-Dirl You Sppot the Trouble? -Two Very Useful Tyre and Radiator Tips


HOlV many readers, I wonder, have Lried to solve the little starting problem that I propounded lost week, and how many will be correct? I imngine that nearly everybody found the solution, for any astute nnalyst of the position will specdily have moted that I mentioned practically everything that could, in the circumstances, go wrong with an engine and would guickly arrive by elimination at the solution.

Now this was the trouble. The antlknock competition in modern petrols is now so ken that various refiners are obliged to blend their product with a considerable proportion of cracked compounds to raise the H.U.C.I. value. whese fractions, however, are often of too high a boiling point to give, of themselves, easy starting, and in that case the final product is "adjusted," as it is technically termed, with a small proportion of a very light and volatila spirit called casing head or natural gasolene to aid starting. I was rumning on one of these " adjusted" petrols-entirely excellent in every way, but incapable of remaining for any length of fime exposed to the air without the very light fraction evaporating off.

In all ordinary circumstances this is not a fault, for one does not expose petrol to the nir for long periods, but the float chnmber of a cenburetter is of necessity open to the air and after 12 days nearly all of the light fraction had gone. Suddenly remembering this, I merely dropped the fiont chamber and thren away the contents-half a minute's work with the Solex carburet-ter-and on a fresh supply coming through from the tank the start was immedinte.
I wonder how mang eases of hard starting are accounted for in this way even after one night? Most modern engines have their carburetters bolted up on to an intensely hot-spotted inlet manifold, and when the engine is stopped after a fairly hard run the heat quickly creeps down and warms up the float chamber considerably.

With small cars the mass of metal is probably insufficient to maintain the heat long enough to permit of any very considerable fractionation of the liphter parts of the petrol in the float chanber, but in big engines $I$ can quite imaginc that this miglit occur and therein I begin to sec an explanation for many cases that I hear of where copious floodiug is necessary to start in the morning eren with a strangler.

B28

With nn average strangler flonding is theoretically quite unnecessary, because this device, if it fits properly, can ensily choke any entine and the only thing therefore that ndditional flooding ran possibly do is to permit a copious influx of fresh petrol into the flont chamber.
The foregaing is a possibility worth remembering in cases of difficult starting first thing in the morning, especinlly as the trend of petrol protuction is becoming more and more a mntter of suitable blending of the less volatile antiknock compounds with matural gasolene adjustment for starting purposes.

I fear I have now encroached too much upon my allotted space to be nble to deal very comprehensibly with any specific technical subject, so $I$ will devote che remainder to one or two tips. Here is a renlly useful one that few seem to know:-

On menrly every fairly well-worn frout wheel cover with almost any form of nuti-skid tread one will see the outer row of the projections- of whatever pattern they may be-worn into a peculiar saw-tooth kind of pattern modified often into fantastic designs, but all repetitions of ench other and all on the back half, as it were, of the projection.

The reasons offered for this curious form of wear arc manifold, but I think the most feasible is that the outer ring of projections is placed on the slope of the tread and therefore at a slightly shorter diameter from the hub than the more central ones. The resulting reduction in the circumference nt this part of the tread tends to give it n different rato of rotation in relation to the ground.
in these circumstances slip must therefore occur, nind as the greater contact area and therefore grip of the central parts gives these the advantage and keeps them in correct rolling contact it would seem that the outer positions must slip a little, especially in dished wheels and in cornering.
As the slight but continuous scrubbing action is mainly in one direction, the saw-tooth type of wear would ensily be thus necounted for, as the projeclions being. of course, flexible, will cant a litile in the direction of the frictionn pull.

The tip, therefore, is-change over the two front wheels periodically. The effect of this is to reverse the direction of rotation which, of course, changes
similarly the direction of the scrubbing and stops this kisd of wens.

Occasionally changing round the covers themselves on their rims is also a wise move where the front whecls are concerned, as is also leeping them as hard ns the springing will permit. If a car has a tendency towards when wobble at speed the trouble is always reduced by pumpiun up the front tyres. This phenomenon also is variously explained, but I think there is little doubt that it owes its origin largely to the forcgoing cause, nagravated, of course by general looseness of the stalos anm swivel pins. Increased nir pressuro arobably eures it by raisiug the toothed projections clear of the ground.

Another tip which I liare found very useful is as follows :-

Some time ago I was asked for advice regnrding an old engine which had gradunlly but very insistently acquired a tendency to knock and overheat. All ordinary preventive mensures had been tried but failed to arrest the srowing tendency. Suspecting the existence of - undue furring of the radiator and water jnckets, I suggested to the ownerwithout much confidence in the alvice, I must arlmit-that he should obtnin some "hoiler tablets" and put them in his radintor.

I had forgotten both the tip and the inquirier when a short time ago I was met nud warmly greeted by him. The boiler tablets, he assured me, had quite rejuvenated his engine, which now neither knocked nor boiled. I promptly passed on the same tip to a similne complainant and learned recently from him that it was successful in his case also. It therefore appears worth publishing in the interests of those whose engines exhibit this anmoving tendency as they get older.

I was eareful to ascertain from the second gentleman exaetly where he got the reguired "tablets" beenuse. not being a steam engineer, I have no knowledge either of their constitution or their vendors. I now learn that they were obtained from Boilerenc, Ltd., SSĒn to SOT, Old Kent Rond, London, who advised him as to the guantity and method of application. I also understand that by this means the furring can be completely dissolved out and the cooling efficiency, especially in old engiaes, greatly improved. It is stated that an average radiator will lose about 20 per cent. of its cooling efficicucy after 20,000 to 30,000 miles.

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Full Programme of


## Fifty-one Entries in To-morrow's Great International Road Race on the Ards Circuit, Belfast. Thirty-one Light Cars Down to Start. Bugattis Withdraw at Last Moment

T- O-MORROW, Saturday, August 22 nd, the 10 th International Tourist Trophy Race of the R.A.C. will be rum on the famous Ards circuit, near Belfast, Ulster. In all, there are 48 cars down to start, representing the fastest sports models of Great Mritatin, Staly and Germany. Among this number are no fewer than 31 cars in the light car cate-gory-seven $1 \frac{1}{2}$-litre models, six "1,100's" and 18 in the 750 c.c. class, where 13 M.G. Midgets face five Austin Sevens.
The lace starts at $11 \mathrm{a} . \mathrm{m}$., and the driver who first completes 30 laps of the 13 号 miles course-including eredit laps-will be adjudged the winner. Actually, only the over- 1.500 c.c. curs are called upon In complete 30 full laps, the light cars being giren from one to five credit laps.
The race is, of course, confined to sports cars, as defined hy the A.I.A.C.R.- the international ruling body. They must be available to the public and catalogued as such, and they may depart from standard only in detail modifications. All cars must race equipped with lamps, wiugs, screens and so ob.

The Ards circuit, over which the T.T. is being run for the fourth year in succession, measures $13{ }_{3}^{\frac{n}{3}}$ miles to the lap, and is roughly diamond shaped.

The start and finish are on the straight between Dundonald hair-

## AT A GLANCE

The Race: The International Tourist Trophy of the Royal Automobile Club, open to sports cars only. Starting to-morrow, August 22nd, at 11 a.m.
The Distance: Thirty laps of the 13 -miles Ards circuit, near Bel fast, Ulster-in all 410 miles.
The Cars: Fifty-one entries, ranging from the 750 c.c. Austins and M.G. Midgets to the $7 \frac{1}{2}$-litre Mercedes.
The Nations: Great Britain, Italy and Germany.
pin and the dangerous Mill Corner. after which the course runs uphill to Bradshaw's Brae and down intr the small town of Newtownard Here cars stream across the wic market place, and leave the tow for the two-mile straight, which the fastest stretch on the course At this point the road is safe for speeds up to $130 \mathrm{~m} . \mathrm{p} . \mathrm{h}$.
A few miles of twisting road with Moate corner and the bend past the cemetery leads into Comber, where there is a sharp righthand corner.
From here to Dundonald is probably the most gruelling part of the course, for the road is straight only for short distances, and overtaking calls for slill and daring. At Dumdonald the course "hairpins" to the right and the grand-stands and pits come in sight.

## THE CARS AND THEIR DRIVERS <br> Class H (750 c.c.).

Austin 15 cars): IT. Knyley, G V. B. Cooko and II. I. Robinson C Goodacre, J. D. Barnes. L. Cushman. M. G. Midget (13 carsi: D. Iriggin, II. C. Mamilton and G. K. Cox,
 S. A. Crabtre. Maserati: II. Widengren and IR (1,100 c.c.). Maserati: II. Widengren and IR. F. Uats.
Raley (5 cans) A. M. Ashby and Raving. W. P. Noble and D. C
MacLachlan, $\mathbf{C}$ Staniland, C. R. Whitcroti, V. Gillow.

$$
\begin{aligned}
& \text { Lea Francis: T, G, Clarke. } \\
& \text { Lea Francis: T, G. Clarke. }
\end{aligned}
$$

Aston-Martin ( 3 cars): O. M. Marvey and S. Neweome, M. W. Cook and J. Bezzant; A. C. Bertelli. Moore and W. S. Brajdwood, C. PeunIughes and D. A. Aldington, II. J. Aldington.
 Lockwoode and C. Southwell Piper, and one unnamicd driver. Maserati (2 rars): E. Fronteras, G. E. T. Eyston and G. Ramponi. Talbot (4 cars): T. E. Rosolichards, J. S. Hindmarsh, B. E. Lewis. w. Esplen.

Borzachomi. G. Campari. Borzacchini. G. Campari. Class $C$ ( 5 litres).

Invicta (2 cars): D. Froy, G. Field and Major F. II. Cairnes.
Burati $1 \overline{3}$ cars): A. Varzi, A. Divo L. Cbiron. Spare driver, A. Bourint. (Nute: This team has been withdrawn.)

Class E (8 litres)
Mercedes-Benz: B. O. Devis and A. C. 'Iaylor.

The entire course has received careful attention by the road authorities, and it is safe to say that never before has it been in such tirst-class condition. Bad bumps have been levelled, dangerous kerbs which last year menaced skidding cars as they slid into bends with brakes hard on have disappeared, and the whole road surface has been dressed with an anti-skid material, so that in the event of rain risks will be minimized.

For this race the R.A.C. has adopted the "credit laps" system of handicapping in addition to the actual time starts. These vary with
each class and supercharged cars carry a heavier handicap than unsupercharged models of similar cylinder capacity.

From the table herewith it will be seen that the actual start will not be en masse; instead, there will be a series of starts as cars equally handicapped roal of together.

The first cars to leave will be the Talbots, which will thus have a clear course before them-an appreciable adrantage.

The rest of the entry will slart in their handical order at a few minutes intervals, the effect being that

THE HANDICAPPING
$\left.\begin{array}{lllcc}\text { Class } & & & \text { Credit laps. } & \begin{array}{c}\text { Plus time start } \\ \text { m. s. }\end{array} \\ 750 \text { c.c. }\end{array}\right)$
$(\mathrm{S})$ indicates supercharged.
the faster cars will get clear of the slower machines at the outset, and will not be thus hampered-in overtaking other machines-in the early stages of the race.

As can be gathered from the entry list given on the previous page. there will be a terrific battle in the light car classes, where not the least interesting struggle will be fought in the 750 c.c. class between the 13 Midgets und five Austins.

## Superchargers Popular Among Light Cars.

Superchargers are being used extensively among the light cars, for no fewer than 19 out of 31 cars are thus equipped. The unsupercharged cars are the Aston-Martins the Frazer-Nashes, the Rileys, and one of the M.G. Nidgets.
The Austin team will be the same as that which won the recent lelay Grand Prix-Leon Cushman, Charles Goodacre and J. D. Barnes. Cushman, of course, recently broke the flying mile and lilometre records with his Austin at over $100 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. and is a roadracing driver of experience. Goodacre finished second in the 1,100 c.c. class of the gruelling Italian Thousand Miles Race at the wheel of an Austin, and Barnes needs no introduction to our readers. In the Midget camp-one almost says "army "-figure many wellknown drivers of resource and experience. R. W'atney, Major Gardner and E. R. Hall have handled larger cars with success in past road races.


Here are examples of the light cars which will be racing to-morror (1) Austin Seven, (2) the Italian 1,100 c.c. straight-eight Mase (3) the 750 c.c. M.G. Midget, (4) the $1 \frac{1}{2}$ litre Frazer-Nash, (5) the F and (6) the 1,500 c.c. Aston-Martin.

All five Austins are of the side-valve supercharged type which has raced with such consistency and success in every big British race for the past few years, and are not in any sense freak machines.
The M.G. Midgets we what have become known as Monthéry models, and with supercharged overheadcamshaft engines are very fast.
None of the Rileys is supercharged, this oh.r. foureylinder car having proved fast enough in its present desigu.

The interest in the $1,100 \mathrm{c} . \mathrm{c}$. class is enlivened by the light between Widengren's Maserati and the five Rileys. The Italian car is a straight-eight supercharged model of the latest conventional design, and Widengren has


REPRESENTATIVE LIGHT CARS IN THE RACE

preparel the car very carefully for the race. His 1artner will be that sleady driver who always timishes -R. Fr. Oats, of O.M. fame.
C. S. Staniland, Bugatti driver, motorcyelist and airman, is in the Riley contingent, and with him are Ashby and lauling, who between them won their class in the "Double-Twelve." Victor Gillow, of course, is a particularly dashing Riley driver, who won the 1!-litre wass in the Dublin Grand Prix last year.

In the 1 -litre class we have the two light-car concerns specializing in sports cars-Aston-Martin and Frazer-Nash, still rivals although to some extent allied in business.

The Frazer-Nashes-the only chain-driven cars built
to-day, are all running without blowers, Moore's, which ran blown in the "Double-Twelve," is a side-valve engine, the other two are o.h.v. units.
H. J. Aldington. the presiding genius of the concern. will himself handle a Frazer-Nash, and there is no driver who can handle these cars with quite the verve and dash of "Aldy." Not for nothing did this metcoric driver, who is at once cool and dashing, earn for himself the style "star of the Mountain course."
A. C. Bertelli, who will drive an Aston-Martin, in addition to being an outstandingly fine driver, is the designer of A.M.'s in their present guise. C. M. Harvey; also in this team, won fame with Alvis cars, Newsome drove Lea Francis cars for years in road races. and II. W. Cook, steady and cooi-headed, is well known at Brooklands.

## About the "Big Stuff."

Abore the light car classes the race takes on a more international and a more grim aspect. The crowds which throng the stands and line the course to-morrow will see Continental drivers-men who race every weekend of the season on terrifically fast courses.

The $2 b$-litre straight-eight supercharged "Alfas" will be handled by Tazio Nuvolari, who brilliantly won this race last year, Giuseppe Campari, that portly but magnificent conducteur, and Borzacchini, who still holds the world's 10 -kilometre record at $152 \mathrm{~m} . \mathrm{p} . \mathrm{h}$.on the roadl!

Besides this official team are two British "Alfa" entries, Sir Henry Birkin and Earl Howe, who are fresh from strenuous endeavours in Continental races.

Italy is also represented by two 2 -litre straight eight Maseratis driven by E. Fronteras and George Eyston. Against the formidable foreign array in the 3-litre class are the four unsupercharged 'ralbots, the unruffled, fast and very quict cars which always appear to run like clockwork.

Dudley Froy, who drove a Riley to victory in it class in the recent German Grand Prix, will handle on of the two Invictas to-morrow, and the fortunes of th cars in their first road race will be engerly followed.

Last, but no means least either in size or poten tiality, is the giant blue German Mercedes to he driven by B. O. Davis. This luge $7 \frac{1}{2}$-litre six-cylinder super charged car has a maximum speed of about $130 \mathrm{~m} . \mathrm{p} . \mathrm{h}$ coupled with amazing acceleration and rock-steady road holding-attributes at a premium on the Ards circuit.

It is a diflicult matter to attempt to forecast the result of the race this year. Never before have the " 750 's" shown so much speed, and never before has the Continental element been so menacing.

We hear as we go to press that, after all, the team of Bugattis will not start, which makes the AlfaRomeos the most formidable foreign entry. It must be remembered that-last year Alfa-Romeos occupied the first three places at aluost precisely the same speed$70 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. Further 'T.T. news is on page 353.



> We welcome letters for publication in these columns. No anonymous communications will be accepted, but writers may use a nom de plume. To ensure publication in the next issue, letters should be addressed to the Editor, The Light Car and Cyclecar, $5-15$, Rosebery Avenue, London, E.C.t, and should reach us on Monday. Please write onlyon one side of the paperand leave a wide margin.

## NEW IDEAS IN COACHWORK

## Why Not Drop-head Four-seater?

Having read all the correspondence regarding open and closed cars. I certainly feel that the problem is up against body designers. What about a drop-head four-seater? My
own iden is an entirely folding roof on
Roll-top Roof Suggested. back. The ouly trouble would be the question of making it waterproof.

The present sunshine roofs are a poor makeshift at the best. The lack of visibility when touring is the chief drawback.
D.V.

## Doctor Suggests Streamlined Construction-

$\Delta s$ a medical man I have been deeply interested in the open and closed car controversy. I am sure most of us agree that, provided we are endowed with fairly normal bealth, driving in an open car with tho

## -Wilh Engino at Rear.

 fresh tang of the food air all about us,is conducive to invigorating the constitution by directly oxygenating the whole cellular system of which we are composed; the oxygen (our most vitul and precious element) enriches the blood, scavenging the lungs and giving tone to the nersous energy in us.

Ify own experiences of saloons tell a very different tale; the presence of fumes-not always perceptible to the sense
of smell-in a closed car is the great danger to health, causing headache, nausea, depression and anxmia. The latter condition may become serious and is due to the poisonous products of combustion.

We cannot belp but notice also the increase in rheumatism of the neek and shoulders among saloon occupants. Closed vehicles, however, are necessities of our daily life, and it is surely up to the manufacturers of chassis nal bodywork to produce a car which is free from such obvious imperfections.

My own feeling is that the sooner we have the engine transposed to the back of the car the sooner will we get rid not only of the deadly fumes, but of the edrlies and draughts, by enabling the body builder properly to streamline his coach work.
M.B.

## Hood Controlled from Driving Seat.

I thought your summing up of the open $v$. closed car controversy a masterpicce of sound advice and impartiality and ] certainly agree with your plea for entirely new ideas in coachwork. Personally, I think that the

Improved Forn of Tourer. ideal lies in an improvement of the toures. rather than further development of the "openable" saloon. I picture an open body with a really well-made and sulsstantial hood capable of being raised and lowered from the driving seat by means of a handle, the side screens being of glass and arranged to drop into the doors entirely out of sight when not in use.
H. Carem.

## Catering for Tourists-Holiday-makers' Complaints

## Exorbitant Cornish Resorts.

I quite agree with Mr. П. C. Hocombe in his complaint about the excessive charges of hotels and restaurants at Cornish holiday resorts. Having bad my holiday spoilt by the grasping attitude of those who What of Other cater for holiday-makers' needs in CornTouring Grounds? wall this rear, I have determined to find a fresh touring ground next. Can any of your readers who have just returned from holidays in other parts of the country offer helpful suggestions?
J.H.

## Unpublished Hotel Charges.

Reading Mr. Hocombe's letter on the subject of hotel prices in Cornwall, it occurs to me as a strange thing that the business of catering for travellers should be the only one

## Why the <br> Mystery?

buying and jow much it will cost. Even in a restaurant there is a menu, often exbibited outside and always easily B34
accessible anyway, showing the exact charge for every item down to the most trivial.

Although some of the hotel lists published contain the prices for certain services, these give only the vaguest idea of what the bill will amount to. It is undignified to inquire the charges beforchand, and one cannot keep asking the price before ordering any item of food! Therefore the business, so far as the customer is concerned, must remain a mighty gamble. I wonder whether this need be so? I feel sure it discourages touring.
A. L. Osmonde.

## Hotel or Tea House?

How have sour readers fared this summer at the hands of hotel keepers as compared with the "cheaper" places one meets by the roadside? These days there is a tendency to

## One Pot of <br> Tca- 2 s .

 get tea at odd places with the iden of saving money, but just lately I have been "stung" well and bearty. I was charged 2 s . for a pot of tea-four cups only-and the tea was, to say the least of it, very indifferent. Although I protested I was met by the remark that I could take it or leave it.D.S.

August 21, 1931.

## A new safety feature

a new mileage development . . "Prismed Buttresses"
This rew 1931 fyre engineering improvement, in the new Standard All: Weather Iread by Goodyear, gives increased grip on corners and enables the tyre to carry a $10 \%$ thicker centre tread, $\mathbf{5 0} \%$ thicker shou!der tread, giving in actual test $24 \%$ longer tread wear!
(0) Here are thousands more safe miles - without a penny on the price -

See these Remarkable Prices
$3-10 \mathrm{tan} 81 \mathrm{ze} 4.40 \cdot 19(27 \times 4.40)$
$48=$ for $51205.00 \cdot 19(29 \times 5.20)$

These prices do not apply in the Irish Free State
The Goodyoar Tyre and Rubber Company (Greal Brilaln) Limited, Wolverhamption


Change to the new Standard All-Weather Tread by



## OUR READERS' OPINTONS (contd.)

## Lights on for Thunderstorms.

On the practice of driving with lights on during n thunderstorn, mentioned by "Foens," I have heard various stories and theories in Nottingham and elsewhere. Apparently it

> Nottingham Drivers'
> Superstitions. originated when trams switelied on their lights on account of the frequent darl:uess during a thunderstorm. Pcople his preventel the limentuiner strikine the overbend enbles or the lines. It was then an simple step for some drivers of motorears and otber vehicles to argue that they might as well have the benefit of such "protection" themselves, and so lights begnn to nppear generally during a storm, whether it was dark or not.
The notion that fhrough some electrical action this is a safeguard anninst lightning is surely as near to a superstition as one can get!

Laceman.

## Should Old Cars be Banned?

The letters which have oppeared from various correspondents in reply to mine on the subject of "Old Cars" have been very interesting, and $I$ fiud much that $I$ can agree

## with in nearly all of them. I notice,

BM OVH.s
Allswers 11 is
Critics. however, that $a$ few writers have introduced a certain amount of personal abuse, which is very regrettable, and I have been necused of heing a selfish person who ean afford an up-todate car and, therefore, wants to see the roads cleared of old models.

I have been motoring continuously since 1906 with a perfectly elean licence and in all this period I have never ouce owned a new enr, simply because I could not afford it. I am at present without a ear and, being still unable to aflord a new one, I intend shortly to nequire another used one.

Mr. JIudass refers in my remarks concerning improvement in brakes, cte., as "childish." Only a month ago $I$ saw a 1003 c en , driven by it thoroughly experienced and competent chauffeur, pulled up wihhin an inch of a bnby in a monm. "Odd land" says it is the driver, not the ear, that matters. Here you have one of the best drivers, but if that car had been one having ouly two-wheel brakes I am perícetly certain there would have been fatal results.

Most of your correspondents secm to have missed the real point of my letter. $I$, too, would be sorry for many reasons to see old cars banned. What I said was that I considered "the time was not far off when steps would have to be taken to reduce the number of ears, perhaps by banning old ones." I fear that some means of reducing the number will, in the future, become necessary. There are other ways of doing this-increasing the licence, for instance; but this would have a detrimental effect on the industry. Old cars nre being banned to a considerable extent now by the heavy annual tax which, in many cases. is higher than the value of the car, ns pointed out by "Focus," and it was the wisdom of bis suggestion that a reduction of tax should be made that $I$ questioned in my original letter.

## France Encourages Veterans.

The suggestion that cars of a certain age should be scrapped would enuse amusement in France, where their use is actually encouraged by the revonue authorities. Any car which can be shown to have passed Tax Concession its ninth birthday pays only half the After Nine lears. normal tax. Exactly why this should be so it is rnther difficult to say, but the working of the officinl mind is inclined to be obscure in all countrics. In France, however, the official mind sometimes has a bit of common sense at the back of it, especinlly in financinl matters. Were this not so the Bank of France would scarcely be in $n$ position to offer England an "overdraft" at the present moment!
My own opinion is that the French authorities are thinking of petrol consumption. Petrol is very heavily taxed indecd iu France and old cars are inclined to use a good deal of it. Hence the revenue people may think that what they lose on the swings they gaiu on the roundabouts.

Be that ns it may, there were well over 60,000 cars registered in France last December as 10 -year-olds. Now if these old vehicles really constituted a danger on the road, as has been sugisested, their use would most certainly not be encouraged, or even tolerated in such a practicai countrs.

Many ot the half-tax cars running in France are ver: old indeed-not 10 sears but 20 . As " A.S." remarbs, th only real disadvantage in an old car is the lack of front wheel brakes. It is in trafic, however, rather than on the open road that this disadrantage makes itself felt, and very old cars are seldom used in Paris.
L.G.D.

Paris.

## Those Average Speeds-Replies to "The Blower"

## Sports Car Owner's Confession.

Your contributor "The lBlower" is a very cournacous person and $I$ very much admired his plain speaking with regatd to average specds. To avernge over $40 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. over

Averaged Over
40 m.p.li. Only Once. sports car I hove done it only once, and that was up the Great North Fioad in the still witches of a fine night. On that oceasion $I$ covered $S 4$ miles in 2 hours. Everything, however, was in my fnvour, for the North Road is far faster than any other nad on the occasion in question there was practically no trallic.
G.G.R.

## Is 70 m.p.h. Maximum Needed-

I ancee with "The 3lower" when he infers that averages of $40 \mathrm{~m} . p . \mathrm{h}$. over long distances exist more in the imagination than in fact, and a point which these perhaps mintentional Ananiases forget is that high avrrages are very often beyond human limits, guite apart from those set by the car itself. Ms experience, however, makes me disanree with the author in one particular. He says, " To avernge $10 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. for long . . . requires a car capable of $70 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. and of holding that speed indefinitely." I belicve that a high maximum is not nearly so important as exceptional acceleration.

T'o give my reasons I must fall into the trap of recording one of my experiences. On a recent Tuesday I left Wood Green, London, at 9.47 n.m. with the deliberate endeavour to nverage $40 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. to Doncaster. Actually I pulled un in the centre of that town at $1.57 \mathrm{p} . \mathrm{m}$. The time, therefore,
was 4 hours 10 minutes, and the total milenge according to speedometer was 161. This is npparently correct as the A.A. Handbook gives it as 163 from Central London. The average speed works out at a little over 3 S m.p.b.

The car was a 1931 Staudard Big Nine coachbuilt saloon with a four-speed box, and the maximum speed is a speedometer $56 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. On the run in question I seldom exceeded $50 \mathrm{~m} . \mathrm{p} . \mathrm{L}$. As a further matter of interest my hourly progress was as follows :-1st, 34 miles; 2nd, 71 miles; 3rd. 113 miles; 4 th, 155 miles.
The Grent North Road is, of course, one of the best roads for high averages, so that "The Blower" will probably think that I have refuted bis statement uuder the best possible conditions. He might also think that I drove dangerously, but I can only say that I do not think I did.

I should add that $m y$ car has a modified induction system which has improved acceleration considerably, but has not increased the maximum speed.
H. W. Gadsden:

Has "The Blower" Exaggerated?
Ins not "The Blower" rather exagnerated the difficulties of putting up high average speeds? I have three friendson whose word I can rely-who have averaged $40 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. or more for upwards of 100 miles in ears
The Question
of Maximum. an absolute maximum of $60 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. and I have done the same thing myself on two occasions. In all cases the general crusing speed las been about j0 m.p.h., with oceasional bursts of more on favourable stretches.

In fairness to "The Blower," however, I must add that we have all been driving for at least 10 years and can claim to hare more rond sense than seems to be possessed by the average driver to-day.

Old Eand.

## OUR READERS' OPINDONS (contd.)

## Who Has the Best of It ?

Who has the best of it financially on a yearly hasis of 20,000 ) miles-the man who buys a new ear ammally or the minn who runs his car for say, four years? At present I run a Singer Junior and change over
New Car a Year amually on a cash depreciation of $£ 50$ Cheapest? approximately. Under this system I have to pay for no repairs or tyre replacements. From on financial point of view would 1 do better to keel my old car or change over ammonly as at present?
G.B.M.

## Tax-dodging in Austria.

Your leading article last weck dealing with the ruming of private cars for carrying commercial products reminds me of the very different state of affairs existing in Anstrin.

## A Contrast <br> to England.

 While in our own country the licence ing, lower than that on commercialvehicles. the reverse is the case in

Austrin. When I was there last I met casually a local expert in tax-dodging. He explained to me how, hy the smallest of alterations, a private car can, in many of the provinees of Austria, be technically brought into the commercial class, thus giving its owner the bencfit of the lower scale of inxation.

I do not sigh for a chauge to a similar condition of things here. The result would all ton surely be that, so far from the commercial scale of tox being reduced to bring it below the brivate-ear seale, the latter would be increased to overton the commereinl scale!
G.I.II.

## Austin Seven Running Costs.

The following rumning costs of $n 1029$ Mulliner Austin Seren two-seater purchased in August. 1930, may be of interest. I am the third owner, and fitted a new set of tyres, a Jodelo brake coupler. Newtex
linder 2d. Per windserees, and certain small acces Nile All In. sories. This brought up the purehnse cost to $£ 86$ 10s. I hase completed $S, 412$ miles to the begiming of this month, the average petrol consumption being $46 \mathrm{~m} . \mathrm{p} . \mathrm{g}$. and oil consumption over 1.500 m.n.e. The trres are hardly marked. The only troubles experienced have been the failure of the coil and distributor and one puncture.

Items.
Canital cost ...
Less value,


The total mileage of the car apmears to br about 20,000 ; and it seems so sound hat I hope to set through another year with no more trouble than the last
C. King-Hutley.

## A Reply to Sir Thomas Polson.

The letter from Sir Thomas Polson which appeared in your issue of Angust 7th calls for some reply. I have had the pleasure of reading "Mass Production," the attractive brochure by Sir Eric Geddes, in which

## Neglecting Over- <br> seas Markets

 be attempts to persuade us that mass production enmot exist without tarifi assistauce, but I cannot agree with yourcorrespondent that his argument contains any reply to Mr.
Jloyd George's criticism of the motor industry under l'rotection.

What Free Traders have veutured to assert is that the motor industry has neglected its opportunitics overseas, where the size of the markets might have been expected to
attract the enterprising mamfacturer, nind they have surgested that this neglect has been mainly due to the inducement which the tariff offers the manufacturer to coneentrate his activities on the home market.

So long as the manufacturers are content with such a limited field there enn never be the lnge-scale production Sir Eric Geddes longs for. Firee Traders believe that the removal of the tariff would make this industiy realize that an assured home market is not enough, and they believe that in a very short time the industry would take its rightful place iu the world markets.
Ii. M. Findlay, Assistant Secretary

The Free Trade Union.

## CONDENSED CORRESPONDENCE.

Writing on the subject of Austin Seven suorts model speeds, Mr. 'T. S. Colder (Ilford) says he has found that his Austin sports (unsupercharger) is always capable of holding its own. Ue even goes so for, in fact, as to write of "tomring" past other cars, with his own engine " doins n quict $\overline{\mathrm{j}} .700 \mathrm{r} . \mathrm{p} . \mathrm{m}$. on second gear." He further claims that his best top-gear speed up to the present has been S1 m.p.h., which has twice been achieved under favourable conditions.

## READERS' WANTS.

Ifuode.-An instruction book for the 192? model ML.G. 'T. Mantle, 1, Waterloo Strect, Dudley

Citnoen.-An instruction bonk for the 192575 h.p. model. —J. Litster, 50 , Ryhope Street, Ryhope Colliery, Co. Durham.

Amiccar.-An instruction hook for the 192:3-4 S. 9 h.n. model.-A. E. Vollsm, Junr., Post Office, Gloddacth Strect, Llandudno.

Swift.-An instruction book for the $102510 \mathrm{~h} . \mathrm{p}$. model. I. C. Rossiter, " Hollycot," Quarry Park, Honicknowle, neac Plymouth, Devon.
Loss.-Detween Andover and Retford, via Oxford, Kettering and Stamford, on Sunday, August !th; the blue enamel name plate from a Clyno radiator--A. Legar, The Cotinge, Flora Avenue, Darlington.
Swifr. - Information regneding the hotting-un and general tuning of the 192510 h.p. inodel, with particular reference to raising the compression.-J, P, Payly, 37, St. Quintin's Avenue, North Kiensington, London, W. 10.

## ASKED AND ANSWERED.

P.L.M. (Unjwards Heath). You can obtain snare parts for your Clyno from R. L. Collier and Co., Ltd., South lardley, Birmingham.
IS.C.T. (Jonenster).-You are correct in supposing that tho Austin Seren wrs lirse introrluced in 19:\%. It was not, however, until 192: that the car appeared on the road in any large numbers.
H.L.C. (Bristol). Where aluminium pistons are concerued the normal clearance between the pistons and cylinders in an engine of 60 mm . bore is .012 in . at the piston crown and .00 j in. at the skirt. If these clearances execed .02 in . and .01 in . respectively it is best to have the cylinders rebored and new pistons fitted.
W.D. (London, N.4). You need have no fear that the filting of the Brooklands radiator stone guard marketed by Frank Ashby aud Sons, Ltd., Bouruville Stamping Works, Charlotte Road, Stirchley, Birmingham, will damage your radiator, as special rubber mounting buffers are provided. A member of our staff has had one of these guards in use ou an M.G. Midget for a considerable time, and is entirely satisfied with it.
U.M.D. (Croydon).-In view of the fact that the screen of your car is of the non-adjustable type nad presents a fairly large windage aren, we certainly advis? you to remove it for the speed trials in which you are thinking of taking part, as it is likely to make תn aprreciable difference to tho maximum speed of your chr. An iden of the great part played by wind resistance in speed was riven by some tests carried out at brooklands many years ago, in which it was feund that whereas a certain car was capable of $73.8 \mathrm{~m} . \mathrm{p} . \mathrm{l}$. with a windscreen having nil area of 2 sq. ft., the maximum speed of the same car fell to $47.55 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. when the area of tho screen was increased to 30 sq . ft . This, of course, was an extreme case, but it certainly illustrates the valuo of cutting down wind resistance.

## SPORTS Jottings

"The Terror" Breaks Hillclimb Record-Shelsley Notes - The T.T. - and Other Things of Interest

 R. his Shelsley laurels on Saturday last by making the fastest elimb of the day at the Ulster Automobile Sports Club's Jill-climb at Craicrantlet, near Belfast. On his first ascent Nash made a new record for the hill at $\mathbf{4 9 . 7 9} \mathrm{m} . \mathrm{p} . \mathrm{h}$. (the previous recold made by Earl Howe last year was 41.48 m.p.h.).

Nash's performance is the more outstanding us henvy rain fell during the event, and the "Terror" skidded badly on the dirst bend

Mr. and Mrs. T. L. Wisdom, in lle Frazer-Nush which they drove nt Sbelsley, also put up an outstanding performance, and, driving the car in turns, clocked ireciscly the same figures each time, some 10 secs. slower than the "Terior." Both climbs were consider ably faster than Lord Howe's two-litre Alfa-lomeo, and made second fastest climbs of the day.

The SGO c.c. sports car class was won by $I$. M. Montgomery, in a 750 c.c. M.G. Midget. This driver is, of course, competing in the $T . X$. to-morrow W. I. Noble, n member of the IRiley 'T.T team, won the 1,100 c.c. clnss.

I give the results of the hill-climb under " Club Items."

Which reminds me, The Daily Fx press on Saturday came out with bold headlines and lovely posters inseribed ". : The 'Terror' in Ircland." FrazerNash enthusiasts rushed to buy copies, but were disappointed to find that the excitement related to civil commotions in the Emerald Isle and not sensational doings by IR. G. J. Nash and his famous car. Appropriately enough, the same afternoon "The Terror" lived up to its reputation and broke the Craigantlet Hill-climb record, as I mentioned above.

$I^{\mathrm{F}}$F ever a man earned a little laudntory comment I think that man is Viscount Ridey, who last.week not only broke, but shattered, the llying kilometre in the $7 \overline{50}$ c.c. class at 105.42 m.p.h. with his remarkable "homemade" motorcar

The words "home-made" mny conjure up visions of a weird hybrid G.N.ish affair "it la Shelsley," but the Ridey Specinl is not such a one. It is a brilliantly designed and beautifully executed racing car which any professional designer would be proud to have built, and its records show that it is as good as it looks. It bristles with clever features and has been built, bit

R. G. J. Nash, in the Frazer-Nash "Terror," skidding the bottom SWOOSH! ___ bend at the Craigantlet hill-climb last week-end. He made a new record for the hill in the pouring rain. Another Frazer-

Nash was second fastest.
by bit, hy a man who obviously revelled in his task.
I take my hat off to Lord Ridley.

IMAVE fallen into crror. Of course, I blame the printer, but you know how it is. I printed last week a beauliful table of most accurate (figures by "Ebby" himself) lap times for the Relay Gramd Prix. But error crept into the text and put the name C. Anthony (Aston-Martin) over the column which

```
FORTHCOMING EVENTS.
Ausust \(22 n d\).
R.A.C. International Y.T. Race, Ards Circuit, near Belfast.
August 23 rd . Berkhamsted and D. M.C. Speed Tritals.
Stamforl Bridgo Specdway M!C. Sports Norwood Ming. Paper Chase. Coventry Triangle MC. Gymkliana Horact Car Clab. Social Escat.
August 29 th .
Coventry Trianglo M.C. Sncial Rua. Ausust 30 th.
Austin Seren C.C. Social Run. September 5th.
Midiand A.C. Shelsley Walsh Amateur Hill-climb.
Brighton and Hova M.C. Brnolilands Brighton and
September \(12 t h\)
M.C.C. Iligh-speed Trinl.
Sunbeam M.C. Speed Trials.
```

really belonged to P. Marriage (Austin Seven) and vice versa with the result that Mr. Marriage rang up and said really, he bad not gone as fast as all that!
What is more odd is that Mr. Anthony has not been looking for me with a blunt instrument saying really, be did not go as slowly as all that!

I shall feel bappier if those interested will take a pencil and transpose the names in the table.

RE my recent article on average Uspeeds, I have had a letter from a gentleman who writes, "I suggest you are talking through the back of your neck, that you're up the pole and that
you don't know what you're talking about."
I gather the writer does not agree with me.

My correspondent never averages less than 43 m.p.b. from Birmingham London and never exceeds $5 \overline{5}$ m.p.h. his 'T.T. Austin in doing it. I will $n$ suggest that he entirely bears out 1 argument-i.c., that to average this se of speed over a long distance requir something very like a racing cat Nthough the cruising speed on such runs may be well below the maximum, the car must be a 70 m.p.h. vehicle.
I am sorry, Mr. Calder, but I still think so.

BI the time these words appenr in print the R.A.C. T.T. will be only a matter of hours away, and those who have seen the practising will have a shrewd idea as to the results of the race.
I hear, as I write this and before departing for Ireland, that the Bugatti team will not materialize after all, so that if this be true the light cars have one less Continental opponent to fear.
On paper the victory would appear to lie with the Alfa-liomeos, which, of course, finished first, second and third last year; but the " $10 \overline{5}$ " Talbots havo to be reckoned with. It would give me -and many thousauds around the course-intense pleasure to see a 750 c.c. car hold its initial lead uutil the end, and if it rains $I$ should not be unduly amazed to $\tilde{\text { gud }}$ this happen. Whether such a car will be a Midget or an Austin is entirely another matter.

MR. LESLIE WILSON, of the Midland Automobile Club, has now seut me the supplementary regulations of the Shelsley Walsh Amateur Hillclimb which takes place on Saturday, September 5th, at 1 o'clock.

The programme, I sce, is divided iuto two events, the first for teams of racing cars and the other for the fastest climb in the sports and racing classes.

There are all sorts of awards and special cups for the fastest team aggregate by cars which ran in the Relay

Grand Prix, for the fastest lady driver instest non-trade driver of a car entered in 1931 international races and, of course, for the driver breaking the record for the hill ( 424 sees).

The light car classes are 550 c.c., 1,100 c.c. and 1,500 c.c. There will be practising on the day before the event. Eutries close on August 27 th and full narticulars are available from the hon. secretary, Mr. Leslic Wilson, Midand Automohile Club, 415, Stratford lead, Birmingham.

TIMOSE whose tuning operations - have kept them so oceupied that time has passed unnoticed slould wake up to the fact that entries for Shelsley close on Thursdaly next, August $2 \overline{7}$ th.
Entries, Leslic Wilson writes, are coming in very well indeed, and amons them are several non-trade motors which did not live un to expectations at the genen climb, but which have been persuaded to behave themselves in the interim.

I also hear that one or two drivers have sworn mighty oaths to break the record for the hill this time, and as they possess machinery whieh certaingy looks to me as suited to the job, I should not be altogether amazed to see

Ton Stük's record lowered on September כ̄th.

By the way, the team event is goins to be great fun, as several of the Relay Grand Prix people are going to do battle. Not satisfied with scrapping on the level (well, supposedly level) track, they are thirsting to show their rivals a thing or two up a hill. A very lot team of three Bugattis is the latest additiou to these ranks.

T
IIE Round-İent Ancient Vehicles Run has, 1 see, been "ante-poned" from October 3rd to Saturday, September 2Gth.

The rim is onen to all motorears built before 1908 and there are all sorts of lovely trophies to be won by the dariug drivers. What is quite to the point is that there is no entrance fee and-as an ndditional attraction-competitors will be entertained to tea at the finish.

From what I know oi "old-crock runs they will need it.

THE score for the Mountain Championship of Furope, by the way, stands as follows at the moment:Zanclli (15 points), Tort (13 points),

Lelarfed ( 5 points), Martmann and de la liva (2 points). In the sports class li. Curacciolat leads with 10 points.

I
PCBLISII on this page a nicture of the Riley tenm for the 'T.T. and very nice they look. What with Dudley Froy's win at Nurburg in the $\mathbf{1 , 1 0 0}$ c.e. class and George liyston's records at IOS m.p.h. at Monthery, someone seems to have extorted a shocking amount of b.h.p. out of the lilley power unit, and I look for some noteworthy lap sneeds on the Ards cireuit tomorrow

With Staniland, Ashby and Gillow in the ranks, $l$ do not think I shall be disaplointed.
T. these days when spend trials and I speed hill-elimbs have frexome something in the nature of extremely rare aces, I am always plansed to hear from those clubs fortunate enough to be in a position to howd these events.

The lierkhamsted M.C. ate holding speed trials near dstun-Clinton on August ärd, for which sports and tourjng (not racing) cals up 10 J ? litres are eligitile to rompeta. but open to club members only. 'l’ue IBLOWEr.

## CLUB ITEMS AND SPORTING EVENTS

## CRAIGANTLET HILL.CLIMB.

The following are the results of the Olster Automobile Sperts Club hill-climb beld on Saturday laet:-
Standard Touring Cars ( 860 c.c.) - -1 , G. $\mathbf{R}$. llamilion (Austinl: 2, J. Desano (Austin); $3_{\text {, }}$ mins. $92-5$ secs.)
Standerd Touping Cars 11,500 c.c.), -1 , Sloane (Wolacley Hornel): 2 , F . M. Mont. somery (Wolseley llornet): 3. H. C. MeFerran (Lea-Francis). (Winner's time. 1 min. 594.5 عecs.)
Standard Sports Cars 1860 c.c.l. $-1, F$ M. Montgomery 1750 c.c. M.G. Midgetl: 2. S. J. C.
 $35-5$ sces.)
Standard Sports Cars (1,100 c.c.).-1. W. P. Nuble (Rileyli 2, S. Ferguson 1750 c.c. M.G. Midget): 3. S. W. Hailwood (750 c.c. MG. Midget). (Winner's time, 1 min. 48 1-5 5ces.]

Standard Sports Cars (up to 1,500 c.c.). 1. F. S. Ferguson 1750 c.c. M.G. Midget) 2 , Hornetf. Winner itime, 1 min. 45 4-5 sece.) Standard Sporis Cars (op to 2 litres) - $\mathbf{- 1}$ Mrs. E. Norl Howe (Alfa-Romeo); $\overline{3}$, Victor E , Ferguson $1750 \mathrm{c} . \mathrm{c}$. M.G. Mieget). (Winner's time. 1 min .
R. Gacing and Sports Cars \{unlimited c.c.).-1. R. G. J Nash (1.496 cc. Frazcr-Nash © TerNarh); 3, Earl Howe (1,750 c.c. Ala-Romeo). (Winner's time-ncw record for the hill-1 min. 291.5 веся.. $49.79 \mathrm{~m} . \mathrm{p}$ b.)

## THE LIGHT CAR CLUB

The next imporlant event of the club will bo the Buxton to Buxton rrial, which will be beld on September 20th and which is open by invitation to members of the Berkhamsted and
D. M.C.C., the Brighton and Ilove MC. ite D. M.C.C., the Brighton and Ilove M.C. the the North-West London N.C.
Entries close on September 5th, and should reach the hon. secretary of the meeling. Mr. J. F do Latere, 113 , Sunny Gardens. Ilendon, London. N.W.4, before that dale. The ealry feo for Light Car Club members is 7 s . 6 d . and The trial will atart and finish at the Eagle Motel, Buxton, Derbyshire, and a conducted party will leave the Salishury 1lotel, Barnet, at midnight on Saturday, September 19 ih , to reach Buxton in good time for the start.
All particulars of the trial may bo obtained mey." Jligh Road, Whetstone, I.ondon, NirkMembers of the club are reminded that they are invited to compete in tho Brighton and
Ilovo M.C. Brooklands mecting on September llove
5 th.

## HORNET CAR CLUB

Caplain J. E. Howcy, owner of tho Romney. liythe and Dymeturch maniaturu rallway. bas minvited the club to pay a visit to the runAugust 23 rd . The club will micet fit noon on the main road from Nitidstone tu Folkestone at thin 52 nd milestone from Landon. The event wilt take place whether wet or fine The resulta of the specd-judging compatition run in very wet weather on July 26 th , arc as folow :-Winner, A. Irwin Smath; runger-up, 11 B. Browning. There were 12 entrante and The next event will bo $n$ reliability trial to bo held on Saturday, September 20th, luli particulars of which arc olstasable from the bon. secretary of the club, Mr. If, S. Wutehens, 12, Club badges are now available, prico 7 s .6 d .
(postage 6 d . (postage 6d. extra).

## BERKHAMSTED ANO D. MC.C.

The club is holding speed trials on a privato courcic near Aston Clinton on Sunday, August 23rd, starting at 1.30 p.m. There are classes up to 1,500 c.c. Racing cars are not eligible to compcte. Tho event is confined to Berkham sted club members.
Mreirils aro available from the bon. becretary, Mr. S. F. Sesfried, 57, Nether Strect, Church
Eud, Dinchley, Loudon, N.12.


THE RILEY _The array of the famous "Nines" ready for to-morrow's T.T. Race. They will be driven by RANKS. $\quad$ A. F. Asbby, W. P. Nable, C. S. Staniland, C. K. Whitcroft and Victor Gillow.


Hey diddle diddle!
Don't tinker \& fiddle
To get the last ounce from your bus :


By running on-
blue 'BP' plus !

The blue 'BP' plus definitely ensures:Instant starting + amazing accelcration + more M.P. G + fullest power + wonderful hill-climbing + freedom $\cdot$ from pinking

ANCLO-PERSIAN OIL CO. LTD. BRITISH PETROLEUM CQ LID. BRITANNIC HOUSE, MOORGATE. E.C? DISTRIBUTINGORCANIZATION

## AROUND THE TRADE

A Solex carburetter was fitted to the Austin Seven which recently broke the kilometre and mile International Class $H$ records at over $100 \mathrm{~m} . \mathfrak{\mathrm { l }} \mathrm{h}$.

A number of combined rear lamps and spot lamps are now being offered at the very competitive price of (is. Gd. Ly James Grose, Ltcl., 379, Euston Foad, London, N.W.1.

Mobiloil was used by W. J. Morton, who recently drove a Ford from Canc Town to Jahannesburg in $2 \underline{2}$ hours is minutes, thus beating the record for the journey set up in 1927 .

The Service Equipment Co., Ltal, Drayton House, : $: 0$, Gordon Strect, London. W.C.1, inform us that bley have iust supplied the Air Ministry with a number of their s.E. car-washing machines.

An indication of the popularity of Ganinge motor oil, Which sells in five-gallon drums at 14s. Gd., is provided by the fact that Gamages state that over 37,000 gallons have been sold since February 1st this year.

An Amberst Villiers supercharser was fitted to the O.M. in which R. F. Onts obtained two first places at the 13.A.R.C. August meeting, and to the Anilear in which W. E. Humphreys secured one first place.
R. G. J. Nash, who in the Frazer-Nash "Terror" established a new reeerd at the Craigantlet hill-climh at Uister on Saturday last, was using Wakcficld Castrol oil. The record was previously held by Earl Howe.

A range of nower percussion serers presses for large shectmetal stampings is marketed hy John Hands and Sons, Led., Cardigan Works, Belnont Row, Birmingham. Car manufacturers interested should write for full particulars.
Brown Bros., Great Eastern Sitret, London, E.C.2, are now offering a range of six-volt starter batterics suitable for such cary ns Austin Sevens, Singer Juniors, Triumph Sevens and so on, at the very low mine of 27 s . Gd. Theso batterics are olitaimable thronsh all motor dealers.

We understand that the crankshaft, camshafts, timins gears, crown whel and bevel, together with certain other parts of the Ridley Special which broke the Class $H$ mile and kilometre records reecently, were made by the I nystall Nictor and Engineering Works, Liti., Ewer Street, Londen.


The imposing array of trophies won by Capt. Arthur Waite during his motor racing career. For the past ten years he has been a familiar figure at the wheel of an Austin Seven and, although he has now retired from active participation, he still maintains his connection with the sport in the capacity of Austin team manager.

## BUY THE RIGHT ! Over 50 in stock <br> <br> BARGAIN

 <br> <br> BARGAIN}

Don't waste money by buying a so-called "Bargain" You can be sure of a genuine high-grade bargain if you buy from Naylor \& Root, who are renowned throughout the country for fair and square dealing. Any car will be sent up to 50 miles from London for a free trial, and the most convenient of deferred terms will be arranged. Write now for current list of Bargains.




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Open Weck-days: $9 \mathrm{n} . \mathrm{m} .108 \mathrm{p} . \mathrm{m}$. Sunday Mornings: 10-1.
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25, EAST HILL, CLAPHAM JUNCTION, S.W. 11 Battersen6187-8-9

-     -         - They pay higher spot cash prices than any other dealers for:

Austins,
> M.G. Midgets, Morris Minors, Rileys,

Rovers, Singers, Standards, Triumphs, etc.

## Yes,

Rowland Smith's of Hampstead are the people. By the way, their telephone number is Hampstead 4881 (6 lines).


An Example from our Huge Stock

This 1931 MORRIS MINOR, Coachbuile
Sunshine Saloon. Triplex glass, fully
aboolutely like brand new. Tax paid.
(Paddington)

We have over 150 CARS similar to this in stock, EACHCOVEREDBYA WRITTEN GUARANTEEFORTHREEMONTHS.

EXCHANGES. TERMS OVER 24 MONTHS.
A small selection from a stock of over 150 cars, etc. TRIUMPM. 1930. Black Fabric Coadon-Enpland Saloon. red pneumatic upholatery. fully equipped hydraulic brakes. Splintex glasa, a very smart ont economical car, carefully used, one 5810 owner, fully 1 asured and taxed. (H.)
MORRIS MiNOR, 1930 , f.w.b.s. Triplex, in fine condition, 2-colour brown finish, low
milenge. (P.)
milenge. (P.) ${ }_{\text {RHODE }}$ HAK, 1929 Model., $108^{\circ}$ h.p., "4-door Sportsman Saloon, all black fabric body. luxuriousiy fitted interior, red Deather upholatery, wheela to match. a magnificent car, tax paid $\mathbf{~ D 7 5}$ SINGER PORLOCK, 1930 model. 8 h.p. Sports 2 -seater, full dash. wire whecls, f.wib. collapsible hood, sidescreena, etc., special 275
2-colour buff finh very fast and areractive. (P.) ... SINGER JUNIOR, I929, 4-door Conchbuili Saloon, t.w b. a, bumper bars. full dash, numerous extras, magnificently finished Maroon nnd Black, negligible mileage, one owner. (H.) FB, ${ }^{\text {AUSTIN, }} 1929$ Gordon-England Saloon. blue Fibric finish, AUSTIN, 1929, Gordon-England Saloon, blue Fibric finish, 262 exceptionally fine conditıon throughour, (P. 1929 , Black "Wydor" Fabric Saloon, all equioment, pluash upholstery, most carefully uaed, very economical litele car.
MORRIS MINOR, 1929.8 hi.p. Fabric"Saloon, full dash." pecial hrown finiah, amart appearance, suitable for a lady. (P.). . .w.b. .
AUSTIN, 1929. Chummy 4 -seater, fult dash equipment. automatic acreen wiper, etc.. rigid all-weat her equipment, original Marooncellulose finiah. (P.)
JOWETT, 1929 model, 7 h.p. Fabric Salloon. fully equipped, full dash, very economical and roomy car. ( H ) $\because$. AUSTIN, 1928. 7h.p. Gordon-England Cup Sports 2-seater, usual equipment, finished red and crearn, sound mechanical condition. \&4
SINGER, 1928. 8 h.p. Junior, 2-seater, double aunken diekey. t.w.b.s, rigid all-went her equipment, very smart and economical
carelully used. one owner. (H.). LEA-FRANCIS, 1926 , II ho.. f-seater, t-door Tourer. O.H.V., magnificently finished $\mathbf{2}$-colour, very fast and in excellent conditionthroughout. (H.) Chummy. dynamo lighting. self-starter. apecdometer, very fine mechanical condition. (P.)... spcedometer, clock, original finish Maroon, unscratched. (H.) INGER, 1923, 9 h.p., 4 -seater Tourer, dynamo lighting, selfstarter, leather upholasery, magnificenty rahnished, very reliable
and in excellent condition throughout. (H.)..
finished in crimaon, fine condision. (P.) .. $\$ 11$
Raished in criman, fre condition, (P.)
SALMSON, $1924,9 \mathrm{~h} . \mathrm{D}$. O.H.V., 2 -seater Sports. double sunken
dickey, dynamo lighting. self-starter, fast and of excellent $\$ 14$ CITROEN, $1923-4 . ~ C l o v e r l e a t ~$
3 -seater, fully equipped, fine.
serviceablecar. (P.)

28-30-32, HIGHBURY CORNER, M.5. 22-49, PRAED ST., PADDINGTON, W.2.
'Phone: Paddington 6049 ann 6892 .
Close 8 r.m. Woskdays Sunday: $1 J^{2} \mathrm{~mm}-1 \mathrm{~mm}$.

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MORRIS waxion, 19201/30, salion, many, extran: $£ 69$


(Adctual phetoo. from Alock.)
We will deliver any car anywhere in England, Scotland and Wales and collect your presen one for an extra charge of only $\mathbf{\text { en-10-0. }}$ Credit terms arranged to suit all requirements.
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## NOTICE.

Owing to postal delnys and irreqularitics it is advisoble to post advertisements EARLY ON MONDAY so as to ensure os far as poasible that they rench us by the FIRST POST on Tuesday. Lately acveral advertisements have been received too late for inclusion although dispatched on Monday.

## SECOND-HAND <br> LIGHT CARS AND CYCLECARS FOR SALE

A.C.s. Your opportunity. Sco pago 20.

976-733
A.d.S., El65. 1931, very latest model saloon, almost shop-aoiled, un





AMILCAR. $£ 2$ deposit, 25 guineas cash. 1926 Grand Sports 2soater, pramaro and red, very good condation, irea tax, irea insuranc days. including Salurday, 9-8 Sundays 9.1. Rawland Smith, 78.81 IIigh Se, liampstead. One minuto liampatead Tubo. 'Phone, Iramp-
stead 48 gi-6.

AMILCAR, s49: exchanges!11 1927-8 Grand Sports. black and red very last and atiractivo car, taxed. Chidley. 579 b Iligh Rd. Totten-
bam. 'lyond 2920 .

$976-795$

AMILCAR, 1930 , 9 hp Grand Sporta, 4 speeds, 40 m.p.h. in second, 60 m.p.h. in third, cost 5245 , my price $£ 120$.

AMILCAR, 1928, 9hp Grand Sports, 875.
AMILCAR, 1926 Grand Sporta 3 -aeater, 845 . Open Sunday morning Exchanges, deferred. Bartletc. 27a Pembridge Villas, Notting $\begin{aligned} & 1111 \\ & 976.805\end{aligned}$

AMILCAR, 1937 2-seater special aporta, now tyres, newly painted, 55
 moraimb

AMILCARS. Iour opportunity. See page 20.
976-734
AMILCAR, 1928 Surbaissc Girand Sports shearalined 2-seater, very lase car, f89. Denmans, 132-ラ Long Acre, W.C. Open weck-end. 976.855 AMILCAR Grand Sports 3 -scater, Iabric body. pressure oiling, 4 gew


ARMSTRONG SIODELEY, 1929 12hp G-cylinder saloon. tayed gear, II. C. Paul and Co., 114 Gt Portland St. Museum 4117. 976-972


AUSTIN authorized maln dealerg. Immediate delivery of all models, new and second-hand, in stock; exchange and deferred terms it desired.
Beechingu, Lid. Faruborough, Hants. Telephone 279 .

AUSTIN 7. We havo several saloons and tourers for diaposal. prices rangiag from $x=35$ to $c 100$. All cars offered are in eood condition Deferred terma Ingraro Motors, Led, Ingrave St., Claphato Junction.

AUSTIN 7, 1927 2-scator duple sports, colour green and ivory, exceptional condition, taxed, SO gumeas. Nartín's Garages, Hisheute Villare.

AUSTINS. Taylors for Austin 7s.
1930 Wgdor saloon, 582 10s.
1928 Mulliner saloons (2)., £52 10s.
1928 Chummy, taxed year, $£ 55$.
1925 Chummy, £27 10s.
A.A. Inspection inrited; 7 days' frea Irfal.



AUSTIN Cup. $£ 10$ deposit. 1927, zecellulosed black and red. rew hood, good tyres. taxed, in super candition throughout both mechanically and in appearnace. $£ 49$ 10s. Motormyles, Lid., 218 Gt. Portland
St. W.I. Museum 67.56.

AUSTINS. KY. Glover-Motora, "The Austin 7 Specialists."
AUSTIN 7, 1927-28 tourers, from $£ 35$.
AUSTIN 7, 1928 coachbuilt saloon, exceptional condition, $\boldsymbol{x} 52$ 10s.
AUSTIN 7, 1929 coachbuilt and labrio saloong. from $£ 65$.
AUSTIN 7, 1930 (September) Arrow special sports 2-scater, taxed AUSTIN 7. 1930 coachbuilt 2 -soater, black and green, indistinguish-
able from now. $£ 35$.
AUSTIN 7, 1931 model fabric ssloon, \&ndistinguishable from new. IT. Glover-Motors, 3-5 Chelverton Rd. Putaey 7134. Open Sunday
morning.

## SECOND-HAND <br> LIGHT CARS AND CYCLECARS FOR SALE (continued)

AUSTIN 7. EAG; 1928 isbric saloon, red leather upholstery, many

AUsTIN 1930 saloon, wanchbuilt, oxcellent condition any 1 rial, $£ 75$. Cars supplied on repurchase basig, on low deterred terma. Ask lor



AUSTIN 7, 1930 Wsdor ualoon, cuarantecd mechanically, sood set of


AUSTINS. Ruffell's Motore, Austin 7 Specialiate.
1928 coachbuilt saloon, as new, engineer-owned, amall mileage, $\Sigma 48$.
1927 Gordon England special sunshine falurio aloon, Triplex, very
1927 tourers, falls cquipped, Inullies』 condition, £30 to £ड4
$1925 \cdot 6$ tourers, overbauled and reads for tho road, $£ 20$ to $£ 26$.
Exchanges, doferred Lerme. Open Sundaye 1.30.

AUSTIN 7. 100 cars in stock, list frec; exchagges. Rowland Smith.
£ 9 deposit, 89 suiveas cash. 1931 model, conchbuit saloon, opal bluc. Elidink root, ono owner, practically brand-new condition, freo tax, free insurance to caib boycie. Below.
£8 deposit, 82 guincas cash. 1930 fabric aper eporta 2 -seater, bluo and red, exceptional condition, frco year's tax, Irco insuranco to cash uycrl. Below.

C7 deposit. 72 guineas cash. 1930 model Wydor fabric saloon, maroon,
E4 deposil, 45 gaineas cash. 1927 Gordon England Cup, vers good condition freo tax, freo insuranco to cash buycrs. Below.
e3 deposit, 2 guincas eash. 1925 tourer, brown, very good condition, irco lax, frec insumerec to cash baycri. Below.
15 guineaa, 1923 Lourer, bluc, very good conditlor. Below.
Rowland Smith 78-81 Migh St, Mampatead. Open all weck-daya, in-


AUSTIN 7, 60 suincas, 1929, maroon, tourcr, Juat overbauled and decarbonized by Austins. tyrea, und condition cood. 4 Luarel Arenue,
Engleficld Green, near Eghano.
$976-$ g 984
 AUSTIN. F.O.C.II. Lato 1931 coachbuill saloon, sanshine rool, maroon, ono owner, rua a few mile only, brand new condition, taxed, Enincas. Below.
F.O.C.H. 1928 4-seater chummy, sood tyrea, new hood and sido curlains, very good condition, taxed, 39 guircas; exchanges, deferred. F.O.C.H., Ltd., 5 Ileatb St., N.W.3. ILmpstcad 2215. 976.783

AUSTIN 7, 19291\%, fabrlc saloon. excepllonally sound condition, safety glass all round, onc-shot lubrication and many other cerras, tased to jecember, $ع 65$, or exchange. 339 Goldbawk Rd., W.6. Riversido
5113.

AUSTIN 7, 1929 Malliner sumsbino ealoon. full cquipment, numerous



AUsTiN 7,28 cuincas or olfer; 2-scater, dickny, 1926 repainted, orer-
bauled, balloons, exiras, any trial. Lang, Twywoll. Kettering. $976-h 19$
AUSTIN 7. 269; 1930 model fabrio saloon, tared. insorcd rear, new



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

AUSTIN 7 rpecial sports 2-scater, in excellent condition throughout
 chummy, pericet condition throughout, taxed, cy6: ferminnci cxchankee


AUSTIN 7, 35 guancas, exchanges: $1923^{3}$ fabrie ealoon, leather pned

 AUSTIN 7, 192 is chummy, upholsiers ar new aplendid running order 2Sa. A. 976.812 AUSTIN 7, 1930 Eupercharged aprcial sports, black, and red, amazing acceleration, excentional conjition throughout. £235. 11. N. Sannder
330 Euston Rd., N.W.1. Musel 4511 .
976.810
 AUSTIN 7a:1 Tinmpleses, Led, oller.-

1929 Stadiam sporta 2 -scater finlehed blno and silvex, Triplex serenn, all-weather equipment, pacumallo upholstery, excellent is ics, n,aghificent order. E75. Below.
1929 chummy, maroon, plated ratliator, compreheanive cquipment mag-


AUSTIN 7. No deposit. 1930 Swallow saloon, taxed, s115. Below. AUSTIN 7. 1929 Stadium 2-scater, 167 10n. Below.
AUSTIN 7. 1928 Cun, eilrer and blue, ء50. Below.

AUSTIN 7, 1930 Wjelor aloon, malcage 8,000, as sicw, ic80. Below, 1y28, 2-seater, taxed, black and cream, ©57 10』. Below.
1926, chummy, laxerl year, one owncr, new tyref, £32 10s. Below.

AUSTIN 7, 1928 tourcr, firat.clasi condifion 1 hrouchout, Bmall mileage, taxed and ineured, $£ 45$, choico of two. Melow.
AUSTIN 7, 1929 toures, finished bue, exceptionally good condition Chroughout,' well equipped, licensed December, £55. choice of two.
AUSTIN 7, 1930 tource, finlsbed blue. excellent appearance and condi-
 Sanday morninge.
976.944

AUSTIN. Sereral 7hp saloons, 1928, £65: $1929, ~ £ 79:$ 1930. £95 Tarker's, 246 Deansgatc, Manchester: also Bradshawgate, Bolton. 576.844
AUSTINS. Yous opportunity. Sce pago $20 . \quad 976.735$
AUSTIN 71931 model coachbullt Ealoon, blne, oxcellent condition, Jooso corcts, firo extinguisher, spare whel cover, mulf, cle, ono owncr,
moderate mileage, tyren as new, taxed to December, f90. G70. Old Kent Rd., S.E.15.
 AUSTIN 7 saloon, 1931, 4,000 milea, Llack and red, taxed December, oose covere. direction indicaiors, condilion af new, f9g exchanges, de ferred. Allery and Bernard, 344 Kings lld., Chelfea. Flaxman 4633.

AUSTIN 7. The ISght Car Co. offers B.C. 2-seatir, finished in black $\begin{aligned} & \text { and cream, oxecptionally last, fo5: exchanges and delcried termm. } 404 \\ & \text { Easton Rd. NiW. Muscum } 2122 \text {. } 976.881\end{aligned}$

## "MOTOR REPAIR MANUAL."

A complete guide to the repair of motor vehicles for the ownermdriver and amateur mechanic. $2 / 6$ net. $2 / 9$ post free.

## SECOND-HAND <br> LIGHT CARS AND CYCLECARS FOR SALE (conlinucd).

AUSTIN 71929 -Wydor folricle ninloon, lack and red, In Fery fond
 AUSTIN. See tho Naglor and Root bargains on page 18 . 976-935 AUSTIN 7 tourer, 1927,2, erecr, inxed, insured, perlect enndition,

AUSTIN 7 Seplember, 1929, Stadlam 2 -.geater, onc-shot lubricatlon,


AUSTIN 71026 tonter (4), taxed Scntember, insured March 1932 ,




 AUSTIN 7, Brooklands Motor Cn. nflers: 1931 fabric saloon uphol-



AUSTIN 7s $\quad 928$ Mulliner fabric saloon, bluc, £57 10s.
1028 Mulliner labric anloon, maroon, $\{57$ 10s.
1928 Mulliner fabric salozn, brown, 555.
1929 model fabric salonn, maroon, 872 10s., nll in good condition.


AUSTIN 7, 1927 special fparls 2 scaler, eream and green, rery kmart,


AUSTIN 7, $\mathcal{L} 2)$ to $\mathcal{L} 50$ buya no excellent Stecla Grifiths reconditioned Austing during August kale-necossary to mako ronm for 1932 models. Fireo driving thition and T.A.C. certificato included. Tho following


AUSTIN 71930 model Swallow saloon, taved year, beautifulls kept, small mileage, xiU5. Bclow.
1928 Harghicy 2 -seater, fitted with Alta Jead. special Zenith earburefter, pollight, mang extras. i 52 10s... motercycles in nart deferred erms, AUSTIN 7s. ". There's me nlarn likn Itolmes." Special show and sale AUSTIN 7s. ""There's on mlacn likn tlolmes." Special show and sale cara azo overlinuled, and will maintalk our reputation for catiro pntis

 model, blue rnd red. magnificent perlurmance. C65; 1928 tourer verv
 AUSTIN 7, 1931 falnon, taxed year. milergo 3,000 only, condition as AUSTIN 7. 1930 Wydor coachbuilt saloon, laxed year, e67 10s. II. C. Paul and Co., 114 Gt. Portland St. Muscum 4117. 976-970
 AUSTIN 7. 1925 coupo, taxed, excellent condition, $£ 27$ 10s. Below. Paul Sawser and Co., 130 Gt. Portland St. Mascum 1925. 976-973

AUSTIN 7. If you nro looklug ini a good accond-hand Austin 7 tocrer or atloon, writo today for [Pres ier'a Intest bargan list. Splendic
 AUSTIN 7931 coarbbullt sunshine saloon, chocolate and red, pouscar, perfoct condition, Indistinguighable from brand newae, alt ready Tweallier permitting) 1or tour: owner world teach intendinif buyer to Irive: taxed year, insured, $£ 98$ 10s. Berrett, 18 Belford Grove,
Woolwich.
$976-h 57$

## SECOND-HAND <br> LIGHT CARS AND CYCLECARS FOR SALE (continued)

AUSTIN 7 Swallow saloon, delirered and registered in 1930, tax pald,


AUSTIN 71929 suporcharge Brooklands special sporta 2-seater, capahle

 AUSTIN 7. Cooke's Motors offer 1925 chammg, taxed and insured,


AUSTIN 7, 1928, chummy, blac, very nice condition throughout. taxed o tho chd ci ho vear. £40 Hagkins. 155 Ladbroke Grove, Nrrth Kensington, W10, adjoining tho Metropolitan Station. Park 5541 .76-945

AUSTIN 7. 1929, Wydor salonn, condition almost as new. 262 1. As.


USTIN 7. E. A. Cullum, A MInst.BE., MIM.T., oflers:-
unumms, mileago noder 10,000 , taxed and insured, nnased during wi, ecr, exceptional condition, 245 . 36 IIigh St., Eton. 'Phone.
Win, isor 308.

AUSTIN 2 , $451: 1$ Genuinc Brooklands model Aastin 7 2-senter, polished ${ }^{\prime}$, ninium body, outside cxhaust, fitted lamps, starter, wings, pood, cte, chassis reconditioned 1929, unuscd since, practically nuvi trres. Whale car in excillent condition throughoot. Ideal competition rar. Eixchanges deferred Park Garage, Skeltons Lane, High Rd., Le,
Lon, E.10. J.estonstonn 1437.

AUSTIN 7 salnon, 1931, coachboilt, 2,000 miles only, licensed and


AUSTIN 7, alightly solled, 1931, 2-scater sparts, delisered new from makers July, ly31, mileage guaranteed under 1,200, taxed and aeveral extras, rost nbout, £130, nur special pricc $£ 107$ 10s. deferrer terms. Waldron Motor, Mart, 645 Garroth Lanc, Earlsfeld.
S.W.17. Phone, Wimbledon 0607 .

AUSTIN 7, 3931 supercharged sports 2-Ecater. practically brand nfw, miloago 2,000, hargain, £155, cost $22 \%$; exchanges, deferred. Emp 'e
 AUSTIN 7hp, 1929 Mulliner coupe, taxed December, s65. Brution Aarages, Lid., 4 blenheim St., New Boad Sl., W.1. Masiair 47376.26

AUSTIN 7s. Carlton Garage 1928 Cap sporis, new tyres, 49 gaincas; 1929 model Wydor saloon, 53 guineas; 1930 Wydor sslonn, nice order, Sunday mornings.

AUSTIN. Protcet soursell with a "Threc Months'-Written-Guarantee. Exchanges, terms over 24 months. Kirt and Co. Below.
AUSTIN, 1929, Black "Wvior" fabric Saloon. sll equipment, plush Apholscry, most carclully used, very coonomical littlo car, s62, Kirk below.

AUSTIN, 1929, Gordon England Saloon, blue Fabrle finish, exceptionally fine condition, throughout, $£ 63$ 10s. Kirk below
AUSTIN, 1929, Chommy 4-seater. full dash equipment, f.w.b's, noto matic screen wiper, etc., rigid all-weather equipment, original maroon matic screen miper, etc. rigid all-w
celluloso finish $£ 57$. Kirle below.

AUSTIN, 1928, 7 h.p. Gordon-England Cup Sports 2-seater, usual equipment, finished red and cream, sound mechanical condition, f49. kirle

AUSTIN, 1927, 7 h p. Chummy, dynamo lighting, starter, specdometer,
 days 10 a.m. till 1.

AUSTIN. Newnhms, ns Austin agents, always have nn excellent selec tion ot used models of this make arailable. Few eximples below but full list on request.
1931 serics 7 hp coachbullt sliding-rool saloon, maroon, moderate milengo and very attraclive, £88.

19507 hp coachbuilt saloon, blae, beautifal condition througbout, $£ 75$. 19307 hn Gordon England Stadium 2-seater, blue and silver, absolutely
taulticss, 875 . 19297 hp coachbuilt saloon, maroon, exceptional order throughout, f55. 1928 7hp coachbullt saloon, stone and brown cellalose, nice apparance and very sound, 547

19287 hp chummy model, maroon, tery good order, $£ 39$.
19267 hp chummy model, blue. smart and sound, f25.
Netuham IIouse, 237 Hammersmith Rd., W.6. Riv. 4646.
976-893

## SECOND-HAND <br> LIGHT CARS AND CYCLECARS FOR SALE (continued).

 clear. Iluge re
Hunter. Below
$19 \underset{1}{ }$ eagchbritt sunshine aloon, dark blue, leather upholatery, uacd ew demonstrations, $£ 120$. Below
2931 model fabris saloon, black-red line, leather upholsters, clean condition throughout, guaranteed, $x 87$. Bcion.
1930 saloon, black-red. mileage tew thousand only, sparo unused, leather
upholstery, s75. Below. upholstery, $£ 75$. Helow.

1.930 4-keater, blue, in as uew condition, including isres, taxed Soptem-
ber, £67. Bcluw.

1929 galoon do luxe, Triplex throughout, leather upholnters, taxed
1929 (July) Stadium 2-scater, bronze-brown, very mall mileage, any trial nnd guarantce, s75. Below.
1929 (Narch) Smallow saloon, crean-maroon, in 1931 condition, mew tyres, taxed, iys. Below

1929 Wydor aaloon, black-red, 4 cood tyres, clectric and bulb horns,
1929 4-seater, dark blue, exceptionally sound mechanically, usual guorauter taxed ycar ©56. Below,

1928 Mulliner saloon, maroon, new tyres, dock grid, beautiful order, lased, s.48. Bolow
1928 -seater, rery sonnd mechanicalls, just coach-painted brown,
one chage ownership, $£ 40$. Beluw.
1928 Gordon England maloon. pncumatic upholsters, salcty glass, numerons extras, Dew tyres, laxed, £47. Helow
1927 (Jude) 4-icater, maroon, ono change ownership only, direction
indicators, grid, very attractive, $£ 36$. Below.
 1926 [Jvis] 4-seater, blue, speedometer, clock, good tyres, splendidly Ecpt, rigid aidescreens, £30. Helow.
19254 -seater, tingfisher blue, epecdometer, good all-weather equipment, excellent runner, tayed, insured Msy, 1932, £30. Below

AUSTIN 7 sunshine galoon, maroon, 1931 (May1, as new, fully insured until May next, taxed December. 100 cuineas; inip: low mlleage. 26
Kastimir Road, Old Charlion. S.E.7.

AIJSTIN 7, 1925 chummy, new tyres, ctc., $£ 27$. 82 Cricklcwood Lanc,
N.W.2. Gidatone 3311 .

AUSTIN 7. $549!!!$ Wrdor 1928 anloon, excellent mechanical order Mell Motor Aart, Ltd., Bath Rd., Clppenham, vear Slough. 'Phone.
Burnham 149.

AUSTIN 7e. Prim's Motori offer special bargain.
AUSTIN 7, 1928 sports 2 -seater, special bods. V-screen, cycle wings, pneumatic upholatery, painted black and cream, taxed and insured, a most attractira car, $\dot{\Sigma} 7710 \mathrm{~s}$
AUSTIN 7, 1928 Mulliner aloon, pericct throughont, Laxed, $£ 57$.
AUSTIN 7, 1927 chumms, periect throughout, taxed, £37. Park 0210. 976-904
AUSTIN 7s. Andrews Automobiles. Gigantic clearance sale (alterationa and decorations) includes Austin 7 s .
AUSTIN 7s. R30 to $£ 50$. No reasonable offer refuacdill Freo tax irce insuranco and 3 months guarantec. Exchanges and deferred
terms. Andrews Automobiles, 37 Sheen Lane, Mortlako (Station). 976.917

A USTIN. Smith-conditioned spells safety for used car buycrs.
AUSTIN 7. 1928-9 saloons, choice of screral, from \&65.
AUSTIN 7. 1930 coachbuilt aloon, colour kingfisher blue, only dono small mileage, deposil £20, balance \&75.


B.S.A. three-whecler, 1931 sporta model, thren months old, mileago just orer 2,000, dynamo lighting, ipecdometer, starter, iafely glass, apare car is an new. Cash, deferred or part exchange for modern molor

## SECOND-HAND

## LIGHT CARS AND CYClecars for sale (continued).


B.S.A. 3 -wheclers from Macklord Motors, Led.
R.S.A. Let G. A. Norcbl demonstrato this fine enginecring job to gou be ensy running will amaze you.



 | Hool |
| :--- | :--- |
| $6187-9.5$ |

B.S.A., $10-2490$ twin o.b.r. starter. IIghting, 4 -scater, taxed. Insurcd. chcap, £15; exchanges. 12 Kyдanco Mewi, Gioucester Rd, S. W7 76 -b43 Bugatti. Wo specializo in theno cars. 1929, 1928 nnd 1927 in


 CITROEN, 7 hp, 1926 (1atest typel, eloverical 3 -zealer, very well kert;
 citroens. Your opportudity. See pago 20. 976.736




CLYNO 9. 1928 4-scater, $1 . \pi . \mathrm{bs}$ full cquipment, very conomienl serviceable car, S24; also 192611 bp . Royal tourer, excellent condicion


CLYNOS. Your opportunity. Seo pago 20.
976-737
CLYNO, 11hp, 1927\%, A-scaler Royal, red leather upholstery, super
 CLYNO 9, fatc 1928 4-seater, texed and insured, pearly new tyres, mechanically sound, privately owned, must sell, 336 ; evenings
only. 540 Lea Bridge Hd., Leyton, E.10.

CLYNO, 1928 2-reater, dickey seat, f.w.b. etc., whole car fo wanderfully good condition, recomraended, S27 10s. Empare Motors, 506 High Rd
Chiswick, $\mathbf{W} .4$. Hours 9-9. Chiswick 0303 .

CLYNO coupe, £25. 11926.27 12-24hp Mulliner body, f.w.b, low mile agc, excellent order: exchanges. 86 Acro Lone, Brixion. Phonc 3401
CLYNOS. Andrewn Automobiles. Gigantic clearance sala (alterationa and decorations includes Clynos

CLYNOS. E15 to $£ 40$. No reabonable olfer refusedlll Freo tax. fred insurance nud 3 months gunrantec. Exchanges and deferred terms.
Andrews Automobiles, 37 Sheen Lanc, Mortlake (Station). 976-911

## A Quick Sale!

> " Orpington.
> " I should be glad if you would cancel further insertions of my advt. re Morris Minor, as, through the large circulation of your excellent journal, I was able to dispose of it yesterday.-W.A.K."

## SECOND-HAND <br> LIGHT CARS AND CYCLECARS FOR SALE (continued).

 CLYNO, 1926 4-seater, blue, new hood and all-weatber equipment, parlicularly mico. tased, sle. Below.
1927 (February) 4-soatcr. iw.b., bluc, elean and well kept, owner taking

fiAt 9, 1929 2-scator, leather upholalorv, refy fins condition, $\mathfrak{x 4 0}$ exclanage, dectercd
Plionc, Central 0972.
 F1AT, 1925, 10.15 4.seater. splendid order and condition, complete
 FIATS. Your opportunity. Sce page 20.
976.738

FIAT 9 4.seater, 1927, iw.b., engino rebored, new unholsters, good


 Flat. Carlton Ganage. 1926 10hp flrop-head counc, 24 guincas; FIAT, 19'2y, pariect condition, only dano 6,000 miles, e-seater, largo


FRAZER-NASH Cars oller for sale the following Interceptor, I model, 4 anceds, 2 -seater, black falric body, crecn chassin, whels and upholstery
don $\mathbf{i l l}$, Isloworth. Hounslow 3171-2.

FRAZER.G.N. Special 924 oh.r. 4-cylindor 4 -aeater, startcr, light-


GWYNNE \& tate model, $2 \cdot 3$-senter, lighting, stafler and numernus


CWYNNE 8, chummy, 17 guinesy. really excoptionat condition, starter. practically now balloon tyres, taxed. Maynarda, 241a IIigh Rd Mood
Grecn.

HUMBER, 1929 (October), thp 4-doar faloon, colour blue, leather


HUMBER. Sco tho Naylor and Root bargains ou paye 18 . 976.941
HUMBER, 9.151930 coachbuilt do luten ailoon, taxed year, wire whecia, s:ondation as new throughout, El75. Below

Paul Sawyer and Co., 130 Ct. Portland St. Muscum 1925. 976-975
JOWETTS. 1928 long 4 acatcrs and 2-sontcrs, e75: 1929 short fabric f90; nod geveral olher Jowelts. Wentminster Urids, Garage and Eng.

JOWETSS. Manchester 1927, 1928, 1429 and 1930 saloona, tourers nod zeseaters, alwaya in ntock Main distributors, Saxon Jefferis. Led.

Jowett. Chlnglord Automobiles, Ltd., dlatrlbutors and engincers. 984.525 JOWEYY 7. 1925, 2-snater, e26, excollent meshanical condition and Conchwork bilarier. trip spectometer dickey, etc. 67 Saxon Rd.
Suuthall, Midesex.

JOWETT. For 1431 shop-soiled long saloons, apply tho Westminster Bridge Ginago and Eqg. Co., 5 Lambeth Palace Rd, S.E.1. Telephene,
IZop 1665.
dOWETT, 1925 2-seater exicllent conditlon, starter, frip specdometer, 976-1530
 deferred Rhind and Co. 258 Doangate, Manchester. Phonc,
Central 0972 .


## SECOND-HAND <br> LIGHT CARS AND CYCLECARS FOR SALE (continued)

Jowetr. £12. 1923 long 4 -soaler, taxed year, excellent condition
throughout. Codicote, Parts View Rd., Now Eltham.
$976 . g 983$ JOWETT. F.O.C.II. Jowett diatributora and ipecialists. Full range now aad second-hand in atock. Below
F.O.C.II. 1928 model 7 hp lang 4 seater, bluc, starter, new hood, exceptionally good condition, 36 guineas. Helow.
F.O.C.I. 19277 hp long 4-scater, navy bluc, screen wiperi one owner, exceptlonally good condition, 26 guineas. Below
F.OC $\quad 1926$ model 7 hp long 4 -neater, black, starter, screen wiper exceptionally gond condition, inxed, 23 guincas; exchanged, deferred. F.O.C.IL., Ltd., 5 Heath St., N.W.3. Hampstead 2'215. 976-784 JOWETTS. Your opportunily. See pago $20 . \quad 976-739$ JOWETT 19267 hp long chassis, 4 -seater, blue, good condition, £30. Jowert 19297 hp A-door fabric saloon, very mall maleage, e70. H. and A. Motors ${ }^{\text {and }} 69$ Cburch Rd. Upper Norwood. Livingstone 976884 JOWETT. Sco tho Naylor and Root bargains on page $18 . \quad 976$-944

 Cunditiou, bargain. Ward and Co., 5 Upper Richmond Rd., E. Purney

Jowetr. End-ot seas, Sale. August 15th-25th. 150 cars to clear. lluge reductions. Cas. or deferred. Send lor list. Smith and IIanter, 1930 black 1 ifinco salona, ong chansis, black-red, very sound. small 1926 (July) full $\mathbf{t - a e a t e r , ~ b l u e , ~ n e v e r ~ c h a n g e d ~ h a n d s , ~ n u m e r o u s ~ e x t r a s , ~}$
excoptionafly well kert, $\underset{\sim}{4} 4$. 1923 sealer. dickeg, statter. complete and in runaing order, fiz.
( $£ 3$ down, balance 10 s weck) Smith and llunter, Lid. 407
inga 8, Saturday 6 , Sunday
16.1 . Jowetr, long four-seater lourer, mileane 14.575, perfect, equal new
insured, 845 . Vicar, St. Paul's, Ramegate. JOWETT 1930 Black Prince saloon, ono owner onls, like new, flos: several othera lrom £SO. Buntıgs, Jowett $\Lambda$ genes. Wealdstonc, Harrow.

JOWETT, 1929, short fabric saloon, sood condition, 849 . Below.
JOWETT, 1229 , short chassia 4 -seatcr, new hood taxed, $£ 45$ : exchanges 976960

JOWETT, 1930. Black l’rince saloon kenulnely in new condition through Oul taxed. f1i5; exchanges and delorred. Naylor and I:onl, 25 East
Yill, Clapham Junction, S.W.11. Phone, Dattersea 6187-9. $967-947$

JOWETT, 48 guincas. 1929 saloon. short chassis, finished biuc, remark-
 JOWETYS. Andrewa Automobiles. Gigantic clearance salo falterations and decorational includes Jowetts
JOWETTS. $\Sigma 25$ to $£ 55$. No reasunable offer refuged!l! Freo tax freo insurance and 3 months guarantec. Exchanges and deferred Andrews Automobiles, 37 Sheen Lanc. Mortlake (Station). 976-910

JOWETT (April, 1930), long Z-seater, sdjastable screcn, Splintex, (axed year, any trial by appointment. \&70. Wyalt, 41 Elgin $\Delta v e$. Maida
Hill, London.
 JOWETT, f28. 1927 (Iate) long 4 -seater. in splendid condition; another


LEA-FAANCIS, 1927 4-door fabric saloon, 12-40, overhauled, untaxed, 840. Denmaus, $132-3$ Long Acre, W.C. Open week-ends. Temple Bar
81376.858 LEA.FRANCIS. Your onportunity. See page 20.9 976-740

LEA.FRANC1S 10 hp 2-sezter, excellent condition. Highmoor, IIutton
Moor, dipon, Yorys.
$976-\mathrm{b} 58$
LEA-FRANCIS 1929 supercharged sporta 2 -scater, just reconditioned at


## SECOND-HAND <br> LIGHT CARS AND CYCLECARS FOR SALE (continued).

LEA.FRANCIS 192712 AOhp 2-scater, excellent condition throughout,
E65. Leeds and Oxley. Paddington 3843 .
M.C. The Central Notor Inatitute, Finchley Rd. Mampsicad, Nw $\mathbf{W}$, Whoiesale and retail distributors for North west Enodon nnd North Ilerllordsbire. Specint tuning and sersice by experi A selection of
carialways in tock. Phode, Primzoso 1161 and Hitchin 494 . zzz- 375



 2-seater, bluc, very exceptional condition; free tax, free insurance to cash
Hayers; 100 curr in ntock; list frec; exchanges. Open all weekdays, inbuyers: 100 curn in ntock; list frec; exchangec. Open all weekdays, Si , llampstead. One minuts llampstead Tubc. Phone, Hampstoad 4881.6.
M.G. Midget, 1950, 2-geater, Gnished black with red whecle, Triplex screcn, pneumatic npholsters, excellent tyres, chromiam plating, smat
nuleage, exceptionally fine conditinn thrnghout. sils. Einchangen de
 ierred paymentr. Humphreys, Lid.,
minutes Iroun Euston Station). Phone, Muscum 9515. Open Sunday
morning mornings.
M.C. Midgct. 1931 model 2-cater sporta blue nno onacr, amall mileage,

M.C., 1931 Midget, lntest tspe, mileage 3,000. \& 140
M.G., 1931 Midget, latest tspe, £130.
M.G., 1930 Midget. superb condilion, slu5. Largest slock of sports curu in Great Brilain. Exchanges, deferred. Barlett, 27a Pembridgo
Vıllas, Votting Hill Gate.
M.C. Midget Bonn and Porter, Lid. 1931 2-seater brand new
 M.C. Nidget, 1930 counc, mileagn 8,000, nerlect throughnnt, taxal

M.C. Midgel. Aコ25. 1930. red and black. mbsolutely Indiatinguishablo
 M.G., 2930 Miaget gyorts, red, mileago 3.000 only, quite apotless and
on ficw. ribbed brako drums, 2120 . Smilh and Hunter, Lid.. An7

M.G., £104 10s. 6d, taxed, 2-sealer, fully guarantecd, freproachable condation, enguire bufore buying elsewhere. We save you money.


M.G. Midget coupn. Branklanda Motor Co. offers 1930, black and green, exceptional condivion $£ 145$. Below.
M.G. Midget couph 1931, hlack and green. mileage under 2.000, $£ 185$; exchanges, deferred. 331 Euston Rd., N.W.1. Museum 3143.4. 976 -19
M.G. Midgel, 1930, large anmp, small milcage, $£ 115$ : molorcyclea in

M.G. Midgel. Cooke's Motors olfri= 1929 sports 2-seater, red. £89 also 1930 ditio, flog. 54 and 56 Brighton 1kd., Sutton. Open weck-
days 976.905 M.G. 1931 Midget 2 -scater, new, unreglslered. latest Lype winga, makers M.C. 193] Midget 2-seater, black and red, numerous extrae one ownor,

M.C. 1929 Midset 2 -scater, rery mart little car, tayed, good tyres, excellent condition, bargain, 79 guincas Below.
M.G. 1930 sportaman's coupe, black and red, laxed December, splendid

M.G. Midget. 1930 (May), small mileage, black, special doublo 12 Camohaft engine, Rund rar, ello: no olfers. Private owner. Limeficld
Ilonse, Checthan Hili, Manchester.

MORGAN. Brarls of Kingalon Morgan distributora and specialists. Nam and guarantecd accond-hand Morganq always in stock. Líberal exchange
Speclal hire-purchase terma. 102 London Rd., Kingoton-onallowances. Speclal hire
Thancs. Phone 5148 .

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MORGAN Scrvlec Depol. Ofticial appainted repairers for "the Morgan Motor Co for London. Full range of spares carricd. New and accond-
 MORGAN. Maskell for Morgans. Sole London agents, soulh of tho
Thames. Sparcs and orerhals New, and second hand Magans alwnya
in stock. 6 Station Rd.a Camberwell, S.E.5. Brixton 5725 zzz.12 MORGAN, 1930 Super ports, N. chassis repainted red, new chain.

 Mongan. 1925 M AG. water-conled, good condition, s20. Deferred.
Dartin's Garages, Mighgato Villige. Hountriew 1208.
zzz-537 MORGAN, 1930 super Acro, Mrypo chassis, mileage 4.000, abso-
Jutcly ag now, $£ 97$ IOs. MORGAN, 1929 super Acro, read and ercam, very last and in show.
toom conclition, f80. MORGAN, special Acro, o.h.v. Blackburno, wide track chassis, feont
MORGAN 2-bealer de luxe a.-T. J A.P.- perlect, 225 ; exchanger, deferred. Rhand and Co., 258 Dennsgate, Manchester. "Pbonce ©ieniral
097.2.
976.766

MOREAN, do luxe, w.c. MA


MORGAN. 100 cars in atock; list 『rec; exchanges. Rowland Smith. ع10 deposil, 305 Enincas cash. 1931 model, super-sporta specially uned racing o.h.r. J A black and red, cycle-typo wings, seraightchrefully uscd. very exceptional condition; freo tax. freo insurance to canis buyers. Below.
£7 deposit, 75 gulncaq mah. Late 1929, auper-mports snecially tuncil raclng o.h.v. J.A P., black and red, cycle-type wings, straightethroukh exhauses, reduced steering. carctully uncd. oxceptional coadition: Ireo

E6 deposit, 65 guiness carh. 1930 Aero, Fleven Ilundred oh.v. spectally tuncd racing J. A.P., red. \&.w.b., dynamo lighting, reduced stcering, hood, small mileago. very exceptional condation; frce lax, freo insuranco

- 5 aporir
\&5 deposit, 55 guincas cash, 1929 model Acro, 8hp o.h p. Anzanf, cxhausts, exceptonal condition; frec tax, irce insuxance to cash buycris, Below.
£4 deposit, 39 guinean canh. Latc 1927 Acro, 8hp J. A.P., black and yellow, f.w.b, dynamo lighting, reduced stecring, very good condition:
s 3 deposit, 35 guineas canh. 1926 Acro, $10 h p$ racing o.h.v. Black-
burne, red. dynamo highting, l.w. beduced stcering, atraighthrough exhausts, foot, accelerator, electric horn, very good condition: frec tax,
£2 deposlt, 25 guincas cash. Late 1926 Family. 8hp w.e. J.A.P. dynamo lighting practically unworn tyres, foot accelerator, clectric horn,
very good condition; frea lax, frea insurance to cash buycra. Below.
19 guineas. 1924 Grand Prix, 8hp w.-c. J.A.P.. dynamo lightiog, electric horn, carefully uscd, very good condition, yearm tax, insurance
policy to Scpiember 26ih. Rowland Smith, 78-81 lligh St., irampstead. Open nil weekdays, including Saturdays. 9-9; Sundiys 9.1 . One minute

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## SECOND-HAND <br> LIGHT CARS AND CYCLECARS FOR SALE (continued).

MORGAN. 223 : 2.acnter. J.A.P. engine, w.c., 8 hp electrie sight, hood,
 MORGAAN, FiP. JA.P.. 1924, ncw dynamo, latteay and tyres, foot


MORGAN. JOC11. 1928 aper-mports, primroso and cream, Eleven
 rcv countor, bumper, lleno Thiming whel, many extras, cxitemely smari,

MORGAN. Irargain. Colmoro ullar 1931 super-sports $10-40$ J.A.p.; ovorhead valve, water conled engino, now tspo inodel M chassis, colou savo c25 nnd sot a hether car. Eazy payments from E20 down. ham.
morgansill (Scveral.) Family 4 -santern, Grand Prix 2 -scatera, watorcooled, dynainos. Irom 16 guincan: exclinngca. deferrel. Wand warth
Motor Exchange, Ebner St., Wandaworth (Town Station).
$976-787$

MORGAN, lite 1928 Aoro acing J.A.P., just overbauled and ro manted kuaison finn.h. $-\boldsymbol{i g h}$ frequency horn, apecdometer,


MURGANS. No deposit. Relow.
 1927 Acroa, o.h \% Dlacksurnc, w.e., startor, f.w.b., $£ 37$ 10s.
1927 Acro J. A P. f.w.b., repainted 2 colour blue, new bood, superb order
${ }_{2} 1926$ Acro, o.h.v. Blackburnc, geared atcoring. t.w.b., foot accelerator,
1925 Acro J.A.P., dynamo. £27.
1925 wrand Prix, o.b.v. M. A.G., w.ec., foot accelorator, dynamo, f25.

:922 Grand Prix, filted 1 ソ 24 onglno, electric, apecdometer, $£ 15$.
1928 De luxe J. A.P. w.ec., dynamo, oxcellent condition, $\mathbf{x} 31$.

moncan, Fumlly, perlect order, dynamo lighling, windacrecn" new hood, spedometer, besi oiler. Clarko, Lamedalc, Cromwell Rd.. Pcter-
Lorough.

MORGANS. Andrown Aulomobiles. Gignatio clearance salo (alleraMoos and decoratioar) iachuca Morgans.
MORGANS. 830 to $£ 45$. No reasonable olfer relasedill Frea tax, freo insuranco and ${ }^{3}$ montus tuarantce Exchanges and delerred terma.
Andrewa Automobiloa, 37 Sbeen L:.uc, M(orthako (Statios). 976.909

morGAN, 1928 Acro TA P. $1 \mathrm{w} . \mathrm{b}$, balloon tyrea, bood, cbromo nickel, bericct, ono owner, taxed to 1932, £59. Below.
MORGAN do luxe Acra, 1931, 1040 o.b.v. J.A.P. cream and greeu tha very last word in improveinents, 2 2y. in. tubo with improved bevel E116 10as: let ma quoto you for your old car: I cad allow you the


Mongan. Homac's hava the lest reconditioned Morgans in tho trade:1951 super-sportso ohv. J. A.P. hood and acrect, very last, al new, Mercedes red, 100 guincas. Below.
1928 De Luxc, 8bp. T.A.P., Ruoas Dync, fow. bractically new tyres,

1927 Aero, ghp w.e. J A.P., Luacs DSno, front hrakes, speedometer, 1927 Family, 8bp ir.A.T., Lucas Dyoo, specdometer, ulde screens, etc., 1926 Family, shp w.e. J. A P. atarler, speedomater, Lucas dynamo, alde soreens, etc.; taxed ycar, £35. Bclow.
1925 Acro. 10 bp oh. Y, Blackburne. Lucas Dyno, large plated outside 1925 Grand Prix, 10 hip w.e. Blackburne. Licas Dyno, Aero winga, bumpers, specdometer, many extras, $£ 29$ 10a. Helow.
Deferred terma arranged. All spares. Repairs from any distanco.
Momac's. Tlio Omplal London Morfan Service Depot, 243 -7 Lower Clap-
ton Ild., E5.
Phono, Clissold 9616.9617 .

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

MORGAN, 1930 (Magl Family model, J.AP, starter, rlpid sideacrecms,

1011. 976-926

MORGAN, $£ 17$ 10s., 1925, 8hp btg-port J.A.P., djnamo llehllng. new

Mongan, Family modul, water-cooled J.A.P., excellent condtion, new


MORGANS. Any reasanablo ofler accepted to clear quifkly. Twn de luxo Morgns. 1924 nnd 1926, w, dynamo, good appearance -

morCAN. Naylor and Root, Ltd., olfer:-
£110. 1931 super-sports, M cbansis, o.h.v. J.A.P., as new.
s95. 1230 super-sports, M chassla, o.h.f. J.A.P.; extran.
\&79. 1929 uper-sporta, o.b.v. J.A.P.; many cxtras: as new.
\&69. 1329 Acro, o.b.v. J.A.P., starter: eeveral cytras; taxed.

\&59. 1928 Аcro, o.J.v. J. A.P., f.w.b., speedometer, geared steering.
s52. 1928 Acro, s.v. J.A.P., l.w.b., new tgres, very smart
f39. $1 \cup 27$ Acro, l.w.b., sgeedometer, cycle wings. sood tyres, smart.
S62. 1930 liamily M chassis, starter, f.r.b., speedometer, extraa.
ç32. 1 J30 Family; a.c. r.A.P., f.w.b., aido screena, etc.: tased.
〔45. '929 Fimily, a.c. J.A.P. f.w.b., apeedometer, electric horn, etc.
£29. 1925 Fiamily, r.c. J.A.P., speefomcier, dyamo, good condition.
\&49. 1930 do luxc, a.c. J $\Delta$.P., 3 chassia, atarter, apecdometer, etc.
Easiest l cast erma over $\lrcorner 2$ or 18 montbs. Hinhest excbange allowanco for your present motorcycle, car or Morgan. Writo for descriptive list today or, better still, call.

MORGAN saloon, repafnted, reboilt hiroughout, materiala costing e35,




MORRIS Minor, 1931 lyon, taxed December as brand now. malleage
 MORRIS Minor coacbbuite saloon, in new
M. Glover-Mozang, Cbolverton Rd.

MORRIS Minor, 1930 anloon, ene owner, nice appearance and tyres, verg carafully bandled lor modorato mileare: unique delerred terms;
©69. $516-522$ Streatham High ld., S.W.16. Phone, Pollards 4444 :

MORRIS Minor, 1931. s.v. ceachbuilt salcon, unused. hast price S119.


MORRIS Minor, e59. 1929-30 aloon, in wonderfal condition many cxtras, taxed. Cbidley, 579b Higb Rd., Tottenham. 'Phone '2920. 976
MORRIS Minor, f7 deposit; 72 guineas cash. 1930 tabric saloon, bluo, carelully used, exceptional condition: frce tax. iree insurance to
 IIIFh St. Hampstead. Oie minute Hampstead Tubc. Phone, 112 mp

MORRIS Minor. Severnl 1928, 1929 and 1930 Ralons, all in first-clans


MORRIS Minor, 1931 . coachbuit punshine saloon. findshed maroon. Trip lex glasu all round, chrominm nlating mileage neglizible, scarcely usad,




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## SECOND-HAND <br> LIGHT CARS AND CYCLECARS FOR SALE (conlinucd).

MORRIS Minor. Seo the Naylor and Root barating on mage 976.939 MORRIS Minor, e78. 1930 coachbuilt snnshino saloon, complete couipinent, low, fuileage, new cordition: exchanges, delerred 976 -h46
Aero Larc, Brixton. Phono 3401 .
MORRIS Minor. End-al-aeason Sale. August 15 th- $25 t h$, 150 cars io Nlear. Higse red
Ifunter. Below.
1930 (May) conchbuilt sunshine saloon, omall miloage, tyres stlll as new, superb order, Layed, x83. Below.
1930 fabric saloon, blue, Triplex, one change ownership, completo equipment, $£ 7.0$. Below.

1929 (September) Ealoon, bluc, superb order, just renorated, taxed | Smith nnd Ilunter Lid., AU, Edgware Rd. Ambassador 1011. Ercuings |
| :--- |
| 8. Saturdas 6, Sunday $10-1$. |
| $976-927$ |

MORRIS. Nexyhams alway have on excollent eelection of uscd cara arailable. Full list ou request.
MoRAIS Minor 1930 8hp coachbuilt openingrool saloon, blue, 19298 ho fabric salcon, bluo, nice appearance and beautitul littio suyner, $£ 55$.
Nownhem House, 237 Hammersmilb Rd., W.6. Rir. 4646. 976.895
MORRIS Minor, 1930, isbric anoloon, in really first-class order througls


MORRIS Minor. 1430 hhn fabric saloon, excellent condition, one owncr,
 MO
MORAIS Minor 1930 saloon, taxed year. excellent order 60 guineas:


Morris minor saloon, bluc, 1930, Triplex, chromium plating. exeep-


MORRIS S.V. Werd and Co. ofter brand new:-
MORAIS S.V.. \&87. IOs. 1931 2-scater, complete to makers spccifica-
MORRIS S.V., $£ 97$ 10s. 1931 Iabric saloon, list s114. Below.
MORRIS Minor, $\mathbf{f 9 7}$ 10s. 1931 fabric 8aloon, negligible milleage, spotless condition; exchange icrme. Exchange or time paymenta arranged on any of the nbove: 50 ears in
slock. Ward and Co., 5 Epper Richmond Rd., E. Putncy. 2878.86 .908

MaRRIS Minor, 1931 coschbuilt sunshine saloon, registered but not


MORRIS Ninor, 1931 saloon, tayed December, as brand new. mileage


MORRIS Minor, $\mathbf{f 9 7}$ 10n.; saloon, 1931 model, very clean, small mileMoxis excelicnt condino abrumbhout

MORRIS Minor $1671 U_{8}$ III Saloon, 1929, In excellent mechanical


MORRIS Minor, 1930 model raloon. in splendid condition, ono owner.


PEUGEOT. The Light Car Co. offcrs 1931 10hp sports drop-head coupe


PEIIRENT 7. 103 . drnnhead foupe with dickey, excellent condilion,

PEUGEOT 7, 1927 4-scaler. full equipment. very good condlition, ycli-



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## SECOND-HAND <br> LIGHT CARS AND CYCLECARS FOR SALE (conlinucd).

 E15. 70 woudlands Iht., Isloworh.
RENAULT. Sco the Naylor and Root bargains on pago 18. 976.940
RENAULTS The following ears, fugether with scveral others, carry our raval glaranteo leferred terms: part exchanges arrallged endl all
 1931 Monasi:: special Eaglish Lody, leather upholstery, adjustnble eate, Teralemit, special Enatio ubrication, carrier, erunks, otc, cost \&280, accept $£ 170$ with tax scar, property of tho proprictor.
1929 9.15 Ealoons de luxe, conchbulle and Weymann. bumpers. car1928 g.15 saloon de luve, coachbuill and Wermann, bumpers, tas paid, orertauled, new batceries, etc., choice of 4 trom $£ 50$ to $\begin{aligned} & \text { és } 65 \text {. }\end{aligned}$


1927 9-15 tourer do luxe, 4-seater, 4.door, taxed, $£ 27$ i $\begin{gathered}\text { earlicr } \\ 976-773\end{gathered}$
RENAULT 9, 7 OOE 4 -seator, in perfect condition completely orerhaulnd,


RENAULTS. Andrews Automobiles. Giganac clearanco saic falterations aud decorations) includes Renaulls.
RENAULTS, $\boldsymbol{x}^{\prime 2} 20$ to $\mathscr{L} 4 \%$. No reasonable ofler relusedlll Frco sax, reo mandiace alld threc months guarautec. Exchanges and delerred crms.

Andrews Automobiles, 37 Sheen Lane, Mortlake (Statiou).
976-912
RENAULTS. Your opportunity. Sec pago 20.
976.741

RHODES. Andrews Autumobiles. Gigantic clearance sale faltemtions
 nsurance and three months guarantec. Exchanges and delerred ierins. Andrews Automobiles, 37 Sheen Laue, Morlake (Station). 976-913

RILEY specinlists. Write for list of guaranteed used cars to Sussex
Listrbutory, Lewes Motors, Lewes.
 RILEY Monaco saloon, 1929, Triplex glass, blue, exceptional condition. £115.

RILEY 9 tourcr, 1928 (late), apring steering whecl, completely over
 RILEY. End-ol-scason sale, Auguat $15-25 t h$. 150 cars io clear, buge
reductions; cashor delerred. Send for list. Smith and liunter. Below. 1930 Monnco saloon, wiro whecls, samc owaer throughout, perfectly kept, usual guarantee, taxed, s155. Below.

1929 Monaco saloun, Mark IV, splendidly equipped, privately owned, 1928 (Junol Monaco, central chance, twin carburelter. maroon, milo ago 19,000, ono owner throughout, £厅8. Below.
Smith and Ifunter. Ltd., 407 Edgwara Rd. Ambassador 1011. Even
ings 8, Saturday 6, Sunday 10-1.
RILEY, Redwing, sports 2 seater, new tyres, tax paid. entirely overhauled and tuncd by ourselves, $£ 42$ 10s. Exchanges or deferred payments. C
and K. Motors, 5 Putney Bridge Rd. Putncy 2728 . $976-820$

RILEY, $x 137$ 10s. 1929 Mark IV 2-senter, ${ }^{\text {Epollcss }}$ condition throughuut exchango. terios. Ward and Co., 5 Upper Richmond
Rd. E. Putney 2818.

RILEY 9, 1930 Moneco saloon, black and red, as new, £155. Below. 1I. O. Paul and Co., 114 Gt . Portland St. Muscum 4117. 976-971 RILEY. Smith conditioned spells anfcly for used-car buyers.
 RILEY 9, 1930 Monaco saluon, good condition, deposit £35, balanco
£125.

RILEY 9 Monaco, 1928, engine fust been rebored, very last, deposit F. G. Smith (Motors), Ltd., Goodmayes, Hford. 'Phone, Seven Kinge
1000 ( 7 lines).

RILEY 9 Special tourer, twin carburatters. Just overhauled, body in perlect condition, 2 new tyres. ans trial. really last 175 m n.b.1, 8105 .
or offer. Adards Motors, Ltd., 3 Keawick Rd., Putney. 2334 , 977 g628

## SECOND-HAND <br> LIGHT CARS AND CYCLECARS FOR SALE (continued)

RILEY 9 special sports anshine salonn. late 1930; this rar is exceptionally fast, has won Broklands gold medals, is as new throughout


RILEY, 1931 Plus madel Monaco sunthine galnon, black-brown. cream
 RILEY Ninc, 1928 M Monaco saloon, in spotesy condition throughout.

 ROVER 10, 1931 coachbuit kunshino saloon, carnfulty used for do-
 ROVER sports, late 1937 , aluminimm body, red disc whecls, concealed liand, Kery smart apneara
Id., Kingislonion-Thames.

Stannton
$976-732$





ROVER 10 1930 sunshinc Enlonn, rery, smart car, Just overhauled by


 fincerder f75 Jicnmana. $132-3$ Long Acre, W.C. Open weckends. $\quad 976-865$.
Templo Bar $8135-6-7$.
 ROVER 9 galoon, 4-door Wcymann fabric body, blue 1927 model, f.wby


ROVER, 1929 10-25 Rivicra smithlno naloon, lyack-red, Dev tyres, вuperb order, laved year, £98. below.
1922 8hp 2-scater, good running order, 2 new tyres, to clear, £8. Below.


ROVER 10, 1931 coachbuilt 5 -seater saloon, first rogintered Earter, noo nwner, smnll mileage. rocit.vely ex-work, condithn throllghnut, Ifigh Rul., S.W.16.' Pbauc, Pollards 4444. ${ }^{2}$ 976-752

ROVER. Seo tho Naylor and Root bargains on page 18. $\quad$ 976-937



HOVER, 19 gnincas, $1 y^{2} 26,9 \mathrm{hp} 4$-door 4 -ecarer, rarefnlly meed, rery

 4881-6.
 all-weather equipment, only 39 guineas motorcycly part, weekly payStation).


ROVER 10, 1927, 4-door 4 -scater, farb. nnd fullest equipment, smart
 Putney 4466 . Opon Sundaya.

976-b50
ROVERS. Your opportunity. Sco page 20.
976-742
ROVER 10, 1929 Rivera sunshine galoon, one orner, exeeptionally




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

ROVER 101930 4-door saloon, sun roof, taxed, one owner, condition . 1 dow

Panl Sawger and Co., 130 Gt. Portland St. Museam 1925. 976-974
ROVER, $1928,10-25 \mathrm{hp}$ encmi-gports 4 -sealer, one owner, wonderful



ROVER. Cooken Nentors ofler brand-ncw shop-ailed 10hp sunshine




SALMSONS. Vadum Co. specialize in the spredy and ecnnomical 9.5 oxamination: deferred; exchangel. Open Saturdays.
£25. 1926 model aports, Grand Priz body, Vee sercen, smart
19 golucus. 1926 sports skifl. Veo screens, wiper, starter, fast. smart.
20 guineas. 1926 o.b.v. 4 -scatcr. laxed, new hood. fw.b., balloans.
19 guineas. Twin camshatt coupe do luxo. dickey, divided wlodows. starter, very comiorlable and roomy car.
32 guiness. 1927 model sports, l.w.b., balloons, Vee screens, taxed 40 guineas. Smart, stroamlined, longtail. 1926, Grand Prix, twin o.b.c., f.w.b., Vee acreens, llartiords, pneumatio opholstery.

SALMSON, 1929-30 Grand Prix, Lwin camshaft, sportsman's coupe, overbanled and rennvated throughout. hax paid, numerous extres s.


SALMSON 1925, sports 2 seater, Grand Prix-lspe body, raked stedrag, outsido hand brake, hax paid, nearly new tyres, in exceptionadiy


SALMSON. £35. 192810 hp coacbbuill coape, folding head, maroon and black. winding windowsit coucoaled dickey. wiro wheels, splendid
order: delerred torns. Phillins and Powis, $10-24$ South St., Reading. order: delerred torns. Phillips and Powis, $10-24$ South St., Reading.
Pbone 2600.

SALMSON, 1926 sports 2 -seater, maronn, in rery good condition, $£ 55$.


SALMSON, £25, 1927 model. 10 hp 4 -door fabric saloon, l.w.b., ex-


SALMSONS. Andrews Automobiles. Gigantio clearance sale (alterations and decorations) includes Salmsons.
SALMSON, £30 to £50. No reasanable offer refused!l! Free Lax, f-ca Insurance and thre months' guaranice. Exchanges and deferred icrms. Androwa Aotomobiles, 37 Sheen Lade, Mortlake (Station). 976-914

SALMSONS. Your opportunity. Sce page $20 . \quad$ 976-743

SCHNEIDER 1928 anorts 4-seater, cutaway driver's side. IU-1lire, 1 Ihg. Uxlord and Cambridge blue. flls. Denmans. 132-3 Long Acre. W.C.
Open weckends. Temple Bar 8135-6-7.



SINGER Janior, 1931 coachballt sanshine saloon, 4 speeds, rear petrol

 SINGER Junior 1929 4-scater. ES2; 1928 Singer Jnnior 4-scater,
\&J5. Zajlors, 135 London Rd., Kingston. 'Phono, Kingston 1264 .

SINGER. 879111 Junior coachbuitt saloon, duo blue. lato 1930 model,
exceptionally good condition. bolow.
SINGER, 5351119288 hp 2 -senter. excellent conditlon throughout. Morgan ITastings, Ltd., 212 New King's Rd (opposita Putncy IBridgg
Stationi, S.W.6. Tele. Putecy 7611 .

## SECOND-HAND <br> LIGHT CARS AND CYCLECARS FOR SALE (continued).

 SINGER, 1930 Junier tourer, very fine condition one owner, 976 Ju

SINGER, 1928 Junior conchbuilt saloon. really good condition, any inspection, days frec trinl. e5s aiso several touring modela.

 SINGER Janior, 1931 gunshine saloon, black, red leather, as new, apare unued, mileake 5.000 , genuine bargain, $£ 110$. Brockley, Lako
ld., Chandleraford, Hanis.
 SINGER 1927 8hp tourer, rery smart, $\quad$ e35. Denmans, 132.3 Inne
Acre, W.C. Open weck-ends. Temple Bar $8135.6-7$.
$976-860$


SINCER Junior 8hp 4-scator 1927粦, good hood, balloons, gmart ap$\begin{array}{ll}\text { pearance. economical, asi, harkain. } 26 \text { кuinean. Vadum Co, } & 352 \text { High } \\ \text { Rd. Willesden Green. N. W.10. Willesden } 2469 \text {. }\end{array}$

EINGER Jonior, 1929, Porlock sport: 2-sontcr, finished green and grey, dicker seat, all-weather equipment, excellent tyres, taxed, beautilus order


SINGER Junior, 1927 , vaurer, moderate mileage, excellent condition,
£35. 44 llartington Grove, Cambridge.
SINGER \& No deposit, 1928 2-seatcr, taxed year, f47 10s. Below. SINGER 8, 1929, tourer, 260 ; exchangen. Page, 199b Upper Rich-
mond lid., Putacy.

SINGER Junior. 8hp, 1928 , 2-scater and dickey, exceptionells well kept, very smart appearance, licensed, £40. Below.
SINGER Junior, Bhp, 1930,2 -seater and dickop, mileage negligible, positivel new condition throughow, licensed, shs: exchanges, termif Riverside 2365. Open Sunday morninga. $976-8.0$

SINGER Junior, 1929, aaloon, coachbuilt, excellent condition throughSINGER Jumior, 19\%8, 2-scater. dickey, bargain. \&55; ezchanges, deferred. Rhind and $\mathbf{C o} ., 258$ Doansgate, Manchestor. Phone. Cenirai
0972.

SINGER Junior, 1928, saloon, excellent condition, tyres good, A.A. innpection,
Kensingion Stalion. Ken. 8941 . Taylora, 49.53 Susser Place, South
zzz-554

SINGER, 1928 Juninr tourer, bargnin, fj5. Tatylors, 49-53 Enssex
place, South Kensington Station, S.W.7. Ken. 8841.
zzz-556
SINGER, 1928 Junior tourcr, smart appearance, A.A. inspection, 7 days ire trial, \&45. Taylora, 49-53 Sussea Place, South Kensington
Station, S.W.7. Ken. B841.

SINGER, 1929 Junior tonrer, axcellent condition throughout, bargain,
 SINGER, 1929 Junior tourer, good condition, good tyren, bargain,


SINGER. Sce tho Nayltr, and Root bargains on pago 18. 976.936
SINCER Junior, 1930 coachbrilt salool, one owner, excellent mechanic-




## SECOND-HAND <br> LIGHT CARS AND CYCLECARS FOR SALE (continued).

SINGER 10hp, 1926.7 do Inve 2.eacter and dobble dickes seat. con-


SINGER Junior, f4 deposit, 59 Rnineas cash. Late 2928 fabrice 4-door aloon, fiw. b.. very good condition. Frce lax, freu insuranco
to casts buyern. 100 enrs in stock; Jise frec. Exchanges. Open all



SINGER sports. 8hp, 1929 Porlock 2 -scater, small mileage, guaranteed,


SINGER Junior saloon, 1931, sunshinc, black and grecn, sparo wheel unused, small mileage, condition as new, Ell exchanges, deferred.
Allory and Bernard, 344 King's Red., Chelsea. Flaxman $4633^{\prime}$. 976.873

SINGER, lato 1930 Janior sporta, perfect condition, ono owner-driver, SINGER, lato 1930 Janior sporis, periect condition, ono owner-driver,
tixed year, any trial, £85, or olfer. Melbourac, Breakspear Avenue,
St. Albans.

SINGER. Newnhams alwass bavo an excellent selection of used cara avalable. Full list on request.
1931 8hp coachbuilt sliding-rool saloon, dual colours, bcautilul conde
tion, א115. 10n, $£ 115$.
1930 8hp coachbuilt saloon, maroon and black, very attractiro, s.85.
19288 hp 4 -seater, blue, good order throughout, \&35.
1928 8hp coachbuilt saloon, dual brown, smart appearance, rery sound,
E48.
Newnham Ilouse, 237 Mammersmith Rd. W.6. Rir. 4646. 976-896
SINGERS. Androws Automobiles. Gigantic clearanco salo (allerationa and decorationa) ancludas Singers

SINGER Juniors, $\mathbf{2} 35$ to $\mathbf{5 5}$ Nin reasonable nflor refused Frec Las, iree insurauce and threo months' guarantec. Exchanges and delerged .
Andrews Automobiles, 37 Sbeen Lano, Mortlake (Station). $976-915$
SINGER 10, 1927-28 2-sealer and dickey, I.w.b. and full rquipment, recoachpaivied maroon, aplendid conditiou in all respects. $£ 35$. iertus, exchnngea, Central Auto Servico, $15-17$ Putucy Bridge lid. Wandid
worth. Phone, Putacy 4466 . Open Sundays.
976.152

SINGER 10, 1925 A-seater, full equipment, 4 new tyres, really good ordnr througbont, El4. Central Auto Scrvice, $15-17$ Putney Bridgo
Rd., Wandsworth. Plone, Putney 4466 . Open Sundays. 976 h53

SINGER. End-of-scason fale, Auguat 15-25th. 150 cars to clear: hne reductions: cash or delerred. Send for list. Smith and Muntor.
Below.
(mileago Junlor sanahinc saloon, black-cream, insed full demonstrations only 1930 Jonior snnshine saloon, dual hrown, wire wheels, smadl mileage, tyres still firat-class, taxed, £98. Bulow.
 Smith and Jinnter, Ltd., 407 Edgware Rd. Ambaseador 1011. Fiven-
inga 8 , Saturday 6 , Sunday 10.1 .

SINGERS. Your opportudity. Sec page 20,
976-741
S1NGER. $\$ 7$ accepted for quick ale. 1923 2-seater, dickey, starter, clock, apecdometer. sparo whect, zuns well. 19 IIolmdeno Aventic,
Herno Hill, Hrixton 0384.

SINGER 10, 1931, coachbuilt sunghine saloon, cosk s225, bargain


SINGER.
Savo your timo and money. Consult a specialist on your Singer problems.
1951 Junior aloon, black and cream, demonstrator, unregiatered, makera guarantec, neglasible mileage, £135.
SINGER Salen, scrvico spares. Murpby, 17 Sbecn Lane, Martlake.
SINGER. 1928, Bhp 2-seater with dickey, laxed, beaullful condition Throughout, £35; excbanges and deferred terms. Waldron Motor Mart, 645 Garratt Lanc, Earlafield, S.W.17. Phono, Wimbledon 0607. 976 -28
SINGER Junior, 1930 2-beater, and dickey, toxed, fawn and brown, $\begin{array}{ll}\text { unscratched. low miloage, } \pm 85 \text { exchanges or delerred. } 243-7 \text { Lower } \\ \text { Clapton Rd., E.5. 'Phonc, Clisgold } 9616-9617 \text {. } & \mathbf{9 7 6 . 5}\end{array}$
SINGER, 193 l Junior sportsman' coupe, very amartly finished in black with green wire whecls, grey pila carpels and upholstory, huilthin


## SECOND-HAND <br> LIGHT CARS AND CYCLECARS FOR SALE (continued).

SINGER 1930 Junior galoon, sliding roof, elfrominm miating, nisnal



 SINGER Cooke's Motors olfer brand new shop-soiled 10 hp saloon do


SINGER Junfor, 1924, 4-acater, exceptionally pice condition, 43 guinmas
 SINGER Junior, 1930 model, chrominm plating, coachbuile 4 -door

 SINCER Pa 976 -h86 SINGER Parinck Sparts, 1929 model, unused and unlicensed until



STANDARD. $£ 175111931$ hig 9 apecind gnioon, black andl red,

 STANDARDS. 400 car list past frce, 1924 :o 1931 new and used carr in olock saloons coupca, sports, landnulces, touring. Eseaters. etc. Open rill $\mathrm{H}_{3} \mathrm{~mm}$ weck-ends included; exchankes and terms, distanca Siation, Southport. Phone, Brkdale 66161 . Branch suowrnoms. 4

STANDARD, 12 2: 1924114 hp 4 seaker do lure complete equipment, oxthas. bumpera, exceptional mp. 86 Acro Lanc, Brixton. Phone 3401 . STANDARD Newnlamb alwaya haso an excellont selection of used cars available. Full list on requese.

1 el31
$\$ 155$. Dig Nine sliding-rool malcon, dual colours, faultess condition,
1430 Sup coachballt tilding-rool saloon, brown. moderato mileage only,
1030 9 hr ${ }^{\text {shnrt }}$ chassis sllding-rool saloon, black and cream, nice order Newnham llouso. 237 IIammersmitb Rd., W.6. Riveraldo 4646
976.897

SYANDARO 9, 1928 morlel A-door labric ealoon, well equipped, £55; exchanges, Lorms arranged Norringlon's, 245 Goldhawl Rd., Shenherd's
Buali, W.12. lliverside 2365 Open Sinday morninge.
976.839

STANDARD. lirand new 1931 Big Nina saloon, sliding roos, wiro wheels at 169 guincas (listed £215, plus c2 10 , delivers), unrmis Co., 352 IIiglı Rd.. Willesden Green, N.W.10. Willosiden 2469. 976.808


STANDARD 9. 1929 Fulham fabric saloon, n very clnan, amart car good tyres, laxed year, s75: axchanges, delarred. Open weck-cnds.
Clapham Automobiles, Lid., 72 Park 1Inl, Clapham, S. W. 976877

STANDARD 9. 1930 Aron Special sports 2-ecater, black and red



STANDARD. Sce the Naslor and Root bargains on pego 18. 976.938
STANDARD. Fnd-of-scason valc, August 15-25tb. 150 cars to clear hupe reduchons, cash or doferred. Send for dist. Smuth aud IIunter.

1931 Big Nino conchbuilt sunshino saloon, black-cream, shop-solled only,

19.30 (March) Teignmnuth maioon, black-white line, frat-class tbrougbout, usual guaranteo, 2115 . Bolow.

STANDARD, El16 10s. 6d., taxed year, 1930 Toignmouth salonn fapmclanel, fully guaranteed, irreproachablo condition, onguiro ucforo buying
 Brixeon 6634, S.W.2. Branch opposito "Swan," Stockwoll S W9.

## SECOND-HAND <br> LIGHT CARS AND CYCLECARS FOR SALE (conlinued).

STANDARDS. Your opportunity. Sce page 20
976.745

STANDARD, 1931 Hig 9 coachbuitt aloon, demonstration only, Laxed,

 way Motors, 19 Woodslock SL., Oxford SL. W.1. Maylair 5489 976 -52

STANDARD 9. Cnokc's Motara offer 1931 Swallow saloon practic-
 3800.


STANDARD 91929 Telgnmouth labrlc saloon, sliding rool, black and ream, 1100. Below.

STANDARD 9, 1930 Teignmoth sunsbinc saloon, ono owner, carefully used and in apotless rondition. bargain, s 109 Falklanit Park Garage,
179 South Norwood Hill, South Norwood. Livingatone 1000 . 976.56

STANDARD. Smitb-conditioned spells safety for used-car buyers.
STANDARD 9 Swallow 1930 salnnn, practically now, masoon and crean, vers fast; denoate $\boldsymbol{\Sigma 4 0}$, balance $\boldsymbol{\Sigma 1 3} 5$.
STANDARD 9, 1929 special saloon, alicling rool, salety glasa, black and cream, exceptionally good condition, £25; balianco £85.
STANDARD, 19304 -cylindor, high-compression engine, 3 speeds forward and reverse, detachable and interchangeable wire wheels and spare; usual complete equipment. including air speed indicatori only dane 2.000 mules. fitted with standard Avon Swan aports 2 eseater body with
cycletypo wings and disappearing bood. colour scheme plum red with cycletypa wings and disappearing hoad, colour scheme plum red with cream whecls and line; upholatery to match. A very attractire car, ex-

SWIFT. 1928 (April) 10hp Arloor galoon, leather opholstery, ono ownos. lly kept, £70. Helow

1926 Shn 4-neater, I. Wb., rear screen, grid, goon hallonns, very clean 1011. $976-934$
 irreproachable condition. Jnquire bolore buyng clsuwhare; we save ron
moncy. South London Car Sales, behind Erixton Palladium, S. 2 . moncy. South London Car Sales, behind Erixton Palladium, S.W.2.

SWIFTS. Andrews Aulomobites. Gigentic clearade sale falterations and decorations) includer Swifts.
SWIFT 10's, f35 to 270 . No reasonable offer refused'll Froe fax
Irco insuranco and threa months' guarantec. Exchanges and deferred freo in
icrms

Andrews Autnmobiles, 37 Sheen Lane, Morllake (Station). 976-916
SWIFT 10 e52 10s.: 1929 tonirer, dual ealour selicmo. rigid pereent 1atultesi confition: exchange, terms. Ward and Co.. 5 Opper Richmntad
lid. Fast putney. 2918.

SWIFT. Newnhams always havo an excellent eclection of used cars 1 c31 8hg Cadet fabric slidingroof saloon, black and green, hardly soiled. ょo9.
1931 10hp drop-head conce, maroon, absolutely fanllesq car, £155.
1531 1Ohp Migrant sliding-root saloon, marcon, hardly soiled, $£ 155$. lajo 10 hn Flectwing aports sli 3ing-rool aloon, bluo, particalarly fast. 1930 10hp PalaJin coachbuilt saloon, brown. onc owner, most attractire, 1930 10hp drop-head coupe, dual colours, beautilul condition, $£ 119$. 1929 1Ohp Ninmad salnon, brown, yith cream wiro wheels, exceptional opportunity, £88.
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