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This finger-print was found imprinted in tar on the otherwise unblemished panel of My Lady's Car.
Luckily, a tin of "Restora" Car Polish was at hand-and a quick wipe over was all that was necessary to remove all trace of the offending. mark.
Evidence - conclusive, irrefutable - comes from North, South, East and West, that "Restora" removes instantly all tar and stains, and also layers of old polish-getting righe down to the original surface and leaving behind a hard, brilliant finish.
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## THE MOTORISTS' WORKSHOP GUIDE

 completely re-written and re-illustrated. DEALING exhaustively with the D most modern methods of motor vehicle repair. The work is written throughout in non-technical language and practically every necessary tool and operation is shown in illustration.5th EDITION.
A
D E P E N D A B L E

An enchanting run through some of the mid-Welsh spas and monntains. From Herejord, visit Hay, Llysven, Builth Wells, Llandrindod Wells, Rhayader and Devil's Bridge and on to Aberystwith. Thence back via Machynlleth, Newtown, Cross Gates, Llandrindod Wells and Kington to Hereford. Total distancejust over 200 miles.

## Comfortable, satisfying

 motoring eosts mo mone than this. .

IN THE WELSH MOUNTAINS.

You could not wish for more enjoyable, more satisfying motoring than is given by the Austin Seven. With its adjustable front seats, its pneumatic upholstery, its ample leg and head-room, spacious enough even for a guardsman, four people can travel fast and far in a Seven without fatigue or restriction . . . can arrive at their journey's end as quickly as in a car twice as expensive to buy and maintain.
In this comfort, this economy, lies the appeal of the Austin Seven, for-inclusive of petrol,
oil, tyres, tax, insurance and maintenance charges-it costs but $1 \frac{1}{2} d$. a mile to run. 'Thus, four people can enjoy a 200 miles tour, similar to that mapped out above, for about $25 /-$, or $6 / 3$ per head.
Such low cost-probably less than the sum you spend each year on far less convenient forms of transport-shows how inexpensive motoring can be-with an Austin Seven. For a small down-payment, a car can be yours. 'Talk matters over with your nearest Austin dealer.

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The Austin Motor Company Ltd., Longbridge, Birmingham. Showrooms, also Service Station fur the Austin Seven: 479-483, Oxford Street, London, W.r. Showroums and Service Station : Holland Park Hall, W.ir.


HALCYON DAYS. Something very like summer weather favoured the August holiday week-end-the last break intil Christmas for so many-and thousands took the opportunity for picnics in pleasant surroundings. Our photo shows a fine picnic spot on the banks of the Nidd, near Barden Towers, Yorkshire.

Cautious Holiday Drivers. The vast majority of drivers on the rond during the Angust Bank Moliday appeared to be driving with great enution and consideration.

History
It may not be generally realized that petrol is now cheaper than it has ever been in the history of the motoring: movement.

We Agree!
A member of Parliament, speaking of the firesent Ministry of Transport, said that under its present Minister (Mr. Merbert Morrison) more has been accomplished in two years than in ten under other administrations.

The Alpine Trial.
rhirteen British ears are competing in the International Alpine Trial which started last liriday from Mnnich and finishes to day (August 7th) at Bernc. Four British drivers had lost no marks after the first four days of the trial, a report of which appeurs in this issuc.

## " Tote" for Brooklands Public.

A totalisator was installed in the public enclosure at Brooklands for the first time on Monday last. Hitherto the "Tote" has been available only for the use of B.A.R.C. members. $A$ report of Monday's racing appears on page 300 , whilst full detailed results will be founa under "Club ltems."

NEWS of the WEEK

An Austin Twelve-Six eme rges with flying colours from a 5,000 -wile test (page 302).

Have you ever towed or been towed? The expericnce can be amusing (pare 300).

Learn all about the Bendix duo servo braking system-it is very inl'sious (page 311 ).

The cause and cure of "Eulp !, fint spots is fully explained by MI. Mantell on page 313 .

There is much more in an old
village than a casual visit aill world There is a heart which it is $\mathrm{m}^{\text {or }}$ th show. to find (page 314).
" The Iron Road "-New Style.
We hear that roads having an iron surface consisting of studded triangular plates may be laid in West Ham and in Worcester for experimental purposes.

## Buying British.

It is stated by the Minister of Transport that all the materials used in coustructing the Guildford-Godalming bypass will be of British origin with the exception of a small quantity of bitumen, which is obtained from Empire sources.

## A Welcome Move.

At a cost of $£ 72,000$, South Strect, Romford, which is stated to be the most congested street in all Essex, is to be widened.

## Days Getting Shorter.

Lighting-up time in London is now 9.3 S p.m., and times for other parts of Englad are:-Birmingham 9.4S p.m., Newcastle 9.57 p.m., Livernool 9.57 p.m., Cardiff 9.51 p.m., Edinburgh 10.7 p.m., Dublin 10.10 p.m. and Belfast 10.13 p.m.

## The T.T

There are 51 cars down to start in the R.A.C. T.T. on August 22nd, of which 31 are light cars. In addition to the British machines there are three French, cight Italiau and one German car amongst the entries.

A full list is given under "Club Iterns."

## 

## Another Toll To Go.

It was decided at a mecting of the Hampshire County Council recently to free the Bursledon toll bridge, on the Southampton-Portsmouth main road, on and after August 16th.

## Road Reports.

The Foston by-pass is now open to traffic.

The single-line traffic system is in operation on the Dawtry-Ollerton Road between Appleby Head and the Normanton Inn.

Dlternative route signs have been erected in Muddersfield, where the Hud-dersfield-Manchester road is closed.

## R.A.C. Foreign Service.

The R.A.C. service of sending spare parts to stranded motorists touring abroad has proved bighly popular. A recent case in point was the dispatch by air of a back axle to $n$ member broken down in Italy. He was delayed through the mishap for just under 48 hours!

## A Handy Cleaner.

An effective cleaner is being marketed by Sandeman Brothers, Ruchils Oilworks, Glasgow, and its uses are many and varied. In the household it enn be employed in a number of different ways, whilst as a hand cleaner it is undoubtedly effective. It can also be used for cleaning the windows of a car and for trking oily stains out of clothing; in addition, it can be recommended ns a tar stain remover, and lays claim to merit as a paint cleaner.

Saroul, as it is called, can be obtained from ironmongers and accessory dealers in sprinkler-top tins at Gd. and 9d. and 1s. 3d. Larger quantities can be supplied, a quarter-gallon tin, for example, costing 3s. Gd.


## DOWN TO THE SEA IN CARS.

Oddicombe Beach, near Torquay, Devon, is a favourite haunt for motorists on fine week-ends Cars are a! lowed on to the beach, where they may be parked free.

## A New Coodyear Tyre.

The Goodycar Tyre and Rubber Co. (Great Lritain), Ltd., is now offering on entirely new Goodyear tyre. This bns triangular projections known ns prismed buttresses down the sides and at the shoulders of the tread which are designed to take the strain, support the side walls and consequently give increased mileage. The manufacturers state that after prolonged tests the new tyre has been found to give 24 per cent. more wear than their previous allwenther trend.

In addition, owing to the use of a special cord material, the tyre can be run at several pounds lower pressure.


## STILL GOING STRONG!

"Boanerges"-the Rover which was described in No. 2 of our series "Veterans of the Road"-won the Old Crocks' race at Brooklands last Monday at $24.99 \mathrm{~m} . \mathrm{p} . \mathrm{h}$.! The single cylinder is alleged to develop $8 \mathrm{~h} . \mathrm{p}$.
"Model Engineer" Exhibition.
The "Model Engineer" Exhibition will be held at the Royal Morticultural Mall, London, from September 3rd to September 12th, and will, as usual, prove a great attraction to lhose interested in things mechanical.

## Horse v. Car.

At Swansen County Court recently an unusual case was beard when damanes for injuries to a well-known South Wales show horse were claimed against a motorist, following n collision with his car. The motorist said that the mate shied at a beap of stomes and that after the necident the groom said. "We will pay for the damage to your car." Tho jury found for the motorist, and judsment was entered nccordingly, with costs.

## The Motor Ball.

The Annual Motor Ball and Carnival will be beld at Grosvenor House, Parls Lane, London, on Wednesday, October 21st, during Motor Show Weels, from 9.30 p.m. until 3.30 n.m. IL.IR.II. Princo Arthur of Connaught has extended his patronage to this annual function in aid of the Motor and Cycle Trades Bencvolent Fund.

Single tickets will be priced at 30s., and double tickets at $£ 2$ 15s. There will be three specinl boxes-ench holding a party of 12 -at one end of the balcony. That in the centre has been booked by the president, Sir George Beharrell, and the other two will be sold by auction to the highest bidder, with a reserve price of 25 guinens on each. Bids should be made without delay to the secretary, Mr. A. H. Dawson, 42, Bedford Row, London, W.C.1. Boxes on the dancing floor, to hold four, aro priced at 10 guineas; to hold six, 15 guincas; to hold eight, 21 guineas; and to hold 12, $£ 3110 \mathrm{~s}$. In the balcony tho prices of tickets are:-Four, 17 10s.; six, $£ 1010 \mathrm{~s}$.: cight, $£ 15$; and 12, $£ 21$.

## 路》

## " Practical Motoring."

The latest addition to motoring literature, " 1ractical Motoring" ('he Waverley Book Co., IAd., 96 and ! 7 liarringdon Strect, London, E.C.4), will he welcomed by enthusiasts. We shall be reviewing it fully next week.

## Combination Decarbonizing Tool.

Known as the Wonder Tool, a very ingenious combination tonl for decarbonizing and valve-grinding is being marketed by $A$ magamated $\Delta$ ceessorics,


The Wonder Tool arranged as a scraper and as a spring compressor.
I.td., Travistork Ilace, Jussell Square, fandon, W.c.l. Amonist its mmay uses ante those of a valve-spring compressor for ethec removing or replacing valves, a valve grinder-in which the asimble semi-rotary motion can be given with particular case-and a rarbon scraper. Models are available for either o.h.v. or side-valse engines at 12s. Gd., whilst for 15 s . a combined model suituble for either type of engine (an be obtained. It showld be noted that in addition to the actual combination tool each outfit includes a tin of specinl grindiug paste and a cin of jointing compound.

## Changes at Ripon.

Rinon City Council has decided to make certain welcome changes in this old Yorkshire cathedral lown. At an estimated cost of over $£ 4,000$ a new roadway is to be constructed-part of a comprehensive scheme to relieve the confistion of traflic through the narrow streets. The new road will make a fresh route into the city from York, Boroughbridge and the south, avoiding the narrow entrance iuto the market place.

## " Not Guilty."

At Cardiff Quarter Sessions this week a 10 -yenl-old firl was nequitted of a charge of dangerous driving. The proceedings were a sequel to a collision between her car and a motoreycle, the driver of which was fatally injured. On being acquitted of $n$ charge of manslaughter, she was committed for trial on a charge of dangerous driving by the Cardiff stipendiary magistrate. Counsel submitted that proper notice that proceedings were being taken had not been served on the defendant, as required by the Road Traftic Act, and the Recorder, upholding this contention. directed the jury to returu a verdict of "not guilty."

## Cobbles to Remain.

The Ioads Committec of the Richmond (Yorks) Town Council recently discussed the substitution of tarmacadam road surfaces for the wellknown cobble stones to be found in this old town. After a debate, in which it was urged that the cobbles were unsuited to motor traffic, it was decided to retain the cobbles to preserve the old-fashioned appearance of the strects.

## Handy Ignition Tester.

An ingenious ignition tester which is suitable for either coil or magneto systems is being marketed by the Masneto Services Co., Migh Street Corner, IIalifax, at the price of 6s. 6d. It is shown in use in an accomnanying sketch, from which it will be observed that it incorporates a test window and a spark gap. The test wiudow indicates by flashes, whether or not current is passing, and $\Omega$ test of this point can be made


The ignition tester connected up ready for use.
without disturbing the plug lead, the end terminal of the tester merely being placed in contact with the plug terminal. The spark gap, on the other hand, gives an indication of the actual voltage of the current, and to make this test the device must be connected up as shown and the knob pulled out as far as possible: this gives a gap which the spark should be able to jump if the system is working up to standard.

## New Tyre-making Process.

At the Dunlop cotton mills at Rochdale, 50 machises for making tyre cord by a new process which is claimed to give much greater resistance to fatigue have just been installed. "The new machines put two twists into the thread for each turn of the spindle instead of one, as in the past. The principle is not new, but machinery has not hitherto been available to carry out the double operation. The system is to be introduced throughout the Dunlop mills.

## Swift of Coventry, Ltd.

Mr. Justice Maugham, in the Chancery Division recently, made an order for the compulsory winding up of Swift of Coventry, Ltd. Mr. 'T'. F. Davis, who apneared for the petitioner, said that the petition was brought by a judgment creditor for $£ 1,184$, and costs. Execution had beeu put in, but everything was claimed by the Receiver. The company did not appear and there was no opposition.

## A New Supercharger.

Mr. T. Haydock, of Blackburn, and Mr. C. Shorrock, of the Torendor Enginecring Co., Preston, bave evolved a new vane-type supercharger in which the vaues move axially, or parallel with the driving shaft, as opposed to the more usual radial movement employed in the sliding vane type of blower.

It has been found during experiments that the power required for driving the supercharger is definitely less than for other types of blower, and that its outpot is greater both at bigh nad low speeds.
$A$ six-vane model designed for a 750 c.c. engine displaces 1,100 c.c. and develops a pressure of 30 lb . per sq. in. above atmosphere at 5,000 r.p.m. As an indication of the very slight leakage past the vanes, it is stated that on the suction side the supercharger eau produce a partial vacuum of 12 lb .


MAKING
PISTON RINGS.
A corner of the new sand-casting foundry which forms part of the extension to the works of the British Piston Ring Co., Ltd.

#  

## The International Alpine Trial

British Cars Doing Well in World's Most Strenuous Trial-Fine Driving Over Dangerous Passes - Four British Drivers Retain Clean Sheets After Four Days Running

EAKLX in the morning of last riday, July $31 \mathrm{st}, \mathbf{6 2}$ cars, representing every country in lurope, left Munich on the first stage of the International Alpine Trial, which conchodes to-day, Friday, August 7th, after a week of the most strenuous Continental motoring it is possible to imagine.

Throughout the trial cars under $\mathbf{1 , 1 0 0}$ c.c. have to maintain a schedule of 23.6 m.p.h., cars under 3 litres 24.23 m.p.h., and cars of unlimited capacity $2 \overline{0}$ m.p.h. The British contingent is D. Mealey (Invicta), H. E. Symons (Talbot), W. F. Bradley (Armstrong Siddeley), Mrs. Lionel Martin (Millman Wizard), and the following light cars: V. E. Leverett, Cecil Riley, G. F. Dennison. J. Mobbs, A. G. Gripper, R. C. Porter (Riless), Lord de Clifford and IR. V. I). Sullivan (M.G. Midgets). A six-cylinder Standard is being driven by au Austrian calling bimself " $\boldsymbol{\Delta}$. B."

## An Early Retirement.

Misfortune overtook R. V. D. Sullivan (M.G. Midget) very carly, for by Lake Walchensec his coil burnt ont and complicated ignition rouble put his car out of the trial. Mrs. Lionel Martin's IIillman Wizard suffered from fuel trouble on the long climb up the Nlexen Pass, due to a defective petrol pump, and after losing 40 minutes desperate driving enabled the car to check in 30 minutes late at the next control at Arlbern; at Innsbruck the Hillwan checked in dead on time!

The Standard Ensign driven by the Austrian "A. U." elimbed the Flexen Pass on third gear, and an Englishwoman. I'rincess Shelagh von Licchtenstein, driving an Austro-Daimler, was particulnrly fust and neat on this notorious pass.

Shortly before reaching Innsbruck the Riley driven by R. C. Porter and I. J. O. Ripley had magneto trouble, losing the competitors is points ou schedule. The other Rileys ran with complete regularity and aroused much favourable comment amongst the foreign competitors, the onls incident of note being a puncture on Capt. Cecil Riley's car.

The second day of the trial, over the 20S-mile strotch between Innsbruck and St. Moritz, was probably the most trying of all. This section included the dreaded timed ascent of the Stelvio -the lighest mountain rond in Europe -and such passes as the Giovo, Ofen, B10


AT THE
START.

A trio of English cars ready to leave Munich last FridayA. G. Gripper's Riley, Lord de Cliford's M.G. Midget coupe and the Standard Ensign which is being driven by an Austrian.

Fluela and Albula. Competitors, in order to maintain their average speed throughout, had to drive "flat out" from the start, and many feats of clever driving took place on the narrow roads.

Sixty-one cars left Innsbruck at 5 coclock, on Saturday morning, and only 55 cars checked in at St. Moritz. The Hillman Wiznrd again suffered from fuel trouble, and the spare petrol pump gnve up in the middle of the timed section on the Stelvio. So much time was lost in rebuilding one pump out of $t$ wo defective ones that the car was withdrawn at St. Moritz.
A similar fuel trouble aflicted G. F. Dennison (Riley), who lost many marks whilst fitting n new Autovac. R. C. Porter (Itiley) had endless ignition trouble, and just managed to reach the St. Moritz control before it closed. A. G. Gripper (liley) also finished just in time, having had diflienlty in maintaining his average on the tortuons mountain passes after a delay caused by a defective starter motor.

The official liiley team checked in at St. Moritz in good time. Lord de Clifford (M.G. Midget) finished ahead of many larger cars, and J. Hobbs (Riley) had a trouhle-free run. V. E. Leverett (Riley), after stopping for a broken oil wauge, covered 27 miles on the daugerous Albuln Pass in 40 minutes!

## Invicta Second Fastest on Stelvio.

The fastest time on the Stelvin was made by an Alfn-Romeo, with Donald Healey (Invicta) second and M. N. Siymons ("105" Talbot) third. The Invicta, incidentally, had to reverse on cindt of the hairpins on this famous pass!

On Saturday night, out of 62 starters, anly 15 ears retained clean shects, among them the four British competitors, Capt. Cecil Riley (Riley), J. IIobbs (Riley), II. T. Symons (Talbot) and Donnld Healey (Invicta).
The third day's run was from St. Mopitz to Turin (291 miles), during which a terrific storm made the conditions even more trying. Belween Locarno and the Italian froutier at Camedo the road was never straight
for 10 yards at $n$ time! $\$ 11$ competitors whe started in the morning raclad the 'lurin contral before it clased. On the fourth stage, 2(); miles hail to be covered from Turin to Nime, and exeellent weather and ruads free from dust made this run the most plansant so far. Capt. Cecil libley (Itilny) hatd the misfortune to collide with a French car. Lord de Chifford (Midget) was going well, and had, so far, lost only 10 marks, and on arrival at Nice the English competitors' shects stood as folDowald Healey (Invicta), mo marks lost ; II. F. Symons ('Talbot), no marks lost; W. F. Bradley (Artustrong Siddeley), 2 marks; V. F. Lewerett (Riley), $G$ marks: Cant. Cecil Itiley (Itiley), mo marks lost: J. Hohbs (Riley), no marks lost; (;. F. Jonnison (lailey), 113 marks; $\Lambda$. G. Gripuer (Riley), 7:3 marks: R. C. Porter (IRiley), 118 marks: nind Lord de Cliftord (M.G. Midget), 10 marks.
The team positions and marls lost so far were as follow:-Wanderer, ! marks lost; Pragn, $2 S$ marks; PragalPiccoln, 57 marks; $\mathrm{F}^{2} \cdot N$., $S 4$ marks, and Riley, 119 marks.

## Riley Overseas Model.

As we briefly announced in our issuo of May 15 th, the Army model Rileywhich was produced for heavy military duties-is available to the public as an Overseas model. Our Midlands enrrespondent now jnforms us that these models, which are developed from the well-known Riley open tourer, fre becoming increasingly popular. The chief features of the Overseas Riley-which is an open four-senter-are increased pround clearance, larger whels and tyres, stronger road springs and the uso of a large fan in the cooling system.

The rear portion of the hood can be rolled up and the sereen can be opened fully so that a draught right through the car is obtainable in the tropies.

The price of the model is $£ 310$ complete. Threce Oversests models are comprting as the official Riley team in the Alpine Triul.

mLigh Gr

## Glimpses of

## A Little-known County -Suffolk


(1) The old Bull Inn at Great Barton, in a rural setting, makes a very pleasant halt on the Cambridge to Norwich road. (2) A tranquil scene on the River Lark, Great Barton Mill. (3) At Dumpling Green, near Swaff ham, the house where George Borrow, the famous author of "Lavengro," was born. A fine example of 18th century domestic architecture. (4) One of the historic gems of the ancient city of Bury St. Edmunds-the Abbey Gate. Built in 1327, this fine gateway is the main entrance to the monastery founded in A.D. 631, and which, in the middle ages, was famous throughout the land. (5) Another treasure of Bury, the 1lth century Norman Tower. This massive example of the stately Norman period is 86 ft . high and houses the bells of the cathedral of the diocese of St. Edmundsbury and Ipswich. (6) Euston-not the famous London station, but a quiet spot just of the Thetford-Bury St. Edmunda road, where a delightfully wooded park comes down to the margin of the Thet.

## 

# Light Cars Do Well at Brooklands 

Six Wins Out of Ten Races at B.A.R.C. August Bank Holiday Meeting.

AGOOD crowd watched au interesting and varicd programme at Brooklands on Monday last when the B.A.R.C. held its August Bank Holiday mecting. The wenther, too, was quite good, a large part of the mecting being run off in bright sunshine; the only faw was the wiud, which was very strong and gusty for high speeds.

This did not interfere very much with the normal races, but made the tasks of Mrs. Stewart and Sir Henry Birkin, in their attempts to beat the Brooklands Flying Lap Record, doubly difficult; in fact, it was almost a foregone conclusion that conditions were too bnd for the record to fall. Actually Mrs. Stewart, in the Derby-Miller, put in one lap at 116.64 m.p.h. and then came to a standstill, apparently with engine trouble. Sir Menry, on the other linnd, put up an extremely gond run when one considers the wind, and in the course of several very high-speed laps, in which his Bentley roared round almost at the very top of the banking, be covered two laps at $134.97 \mathrm{~m} . \mathrm{p} . \mathrm{h}$.
Strangely enough, during a race later in the day be bettered this speed by lapping at $135.34 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. , but even this, of course, was not sufficient to bent Kave Don's existing figure of 137.5 S m.p.l.

## Placed in Every Race.

Light cars did extremely well on the whole, winning no fewer than six of the ten races and achieving at least one place in every event.
R. F. Oats was the outstanding light car driver in a 1,4 S4 c.c. supercharged O.M. He won the first Mountain race, came in seennd in one of the short handicaps and was first past the post in one of the one-lap sprint handicaps; his suceesses in the last two of these events were achieved in spite of a reduced handienp.
J. II. Bartlett (Salmson S) also
drove excellently, achieving one first and one third place, whilst I. A. Cushman (Austin S) gained two " seconds."

Other light ear drivers who were successful were W. E. Humphreys (Amilear S) and II. W. Purdy ('Nhomas Special), both of whom gnined a first place. I'urdy's success was in the London Lightning Long ITandienp, in which be drove an extremely fine race, having a ding-dong battle throughout with Jack Dunfee (3-litre I Sallot), who started with the same handicap. Dunfee nctunlly got ahead of Purdy on one occasion, but Purdy finally came home 35 yards ahead at $103.61 \mathrm{~m} . \mathrm{p} . \mathrm{h}$.

Probably the most interesting events were the three Mountain raees, in which cornering was extremely spectacular at the Fork.

In the first Mountnin race, for example, W. E. IIumphreys (Amilear S)

R.F. Oats, who, in a supercharged O.M.。 gained two firsts and one second place.
turned right round in the very path of P. Fotheringham Parker (Alvis), who just managed to avoid him, whilst, in the second, Jaymond Mnys, having worked his way up from the baek markers to third place in a matter of markers to third place $\begin{aligned} & \text { min a } \\ & \text { fiec skidded right round at the }\end{aligned}$ Fork and so lost all hope; the limit man, T. S. Fothringham, in a Jiugatli, maintaining his lead throughout. In this race, incidentally. Sir ITenry I'irkin, in the Maserati, broke the lap record for the Mountain course at 75.21

(Above) J. H. Bartlett (Salmson S), who gained third

## place in the second Mountain race, leading D. G. <br> ON THE MOUNTAIN __ COURSE. Evans (Bugatti) and B. O. Davis (Sunbeam S) round the fork hairpin. (Below) W. E. Humphreys (Amilcar S) skids right round in the path of $P$. Fotheringham Parker (Alvis) in the first race.


m.p.h. and also the record for a race of this tyve at $71.38 \mathrm{~m} . \mathrm{p} . \mathrm{h}$.
The last Mountain race was equally, if not more, hectic, W. K. Foulkner, in a 2 -litre supercharged Lugatti, providing most of the fun. On his second lap, for example, he only just avoided hitting the barriers, and on his fourth lap he crashed right through them, but swang round and, getting liack through a gap, continued with unabated ardour ; all the time he was gradually working his way up from seratch position and when in second place with only one lap to go ho had to retire with big-end trouble. Tho winning car was a six-cylinder M.G.

The mecting concluded with an Old Crocks' race, which provided all tho usual fun, P. Livesey romping home the winner at a hectic 24.95 mph . in a 1003 Rover.
(For full results see "Club Items.")

## 

# The London-Barnstaple 

Yealscombe Fails All but Six Cars in the Mid-Surrey A.C. Week-end Trial

A' C ' 11 in.m. on Friday last, July $\mathbf{3 1} 1 \mathrm{st}$, A some 2() -odd cars, 14 motorcyclos and a IB.S.A. Hirec-whecler left Kingston at minute intervals on route for the West Country in the Sth annual London to LBarnstanle trial, organized this year by the newly formed Mid-Surrey A.C., which has nrisen from the ashes of the Surbiton Motor Club.

The fact that only five car drivers completed the course without loss of marks is some indication of the severity of the course,
The run westward through the night was devoid of interest until the breakfast ston, nt 'Inunton, after which the rente to the first hill. Grabhurst, was enlivened by patches of mist.
Rirabhurst was treated with contempt hy the entire entry, although K. D . Jivans (Alfa-Romeo) showed a little ton much contemnt, tonk the hill too finst, and failed to round a corner.

## Doverhay Stops Them.

Dowerhay, near Porlock, came next, and here the entry, which arrived dead on time, left nbout two hours late. The hill was in a bad condition, and ear after enr failed, thus inereasing the delay for those behind.
N. N. Voster and L. J. Erith (Wolseley Ifornets) were outstandingly good. K. D. Evans (Alfa-Romeo) retired with a craved sumn and Miss Joan IKowman (M.G. Midget) broke her back axle.
From the ton of Doverhay to the main Exford Itoad was a timed colonial section, which nroved of suflicient difficulty for the light cars and no one made up nuch time. By contrast with Doverhay. Isyton and İeggars' Ronat -which followed-were easy, and after IInokway Jilk, which caused little linther. the circuitnus route led to Yealscombe, near Exford, which was wifhout any doubt the worst hill in the trial.

## On Yealscombe Hill.

At the foot of the hill is a deen ford of the River Exe, after which competitors found themselves unon n steen and slimy acclivity leading un with considerable hends between steen banks. The surface was composed of rock coated with a inuddy scim.
Only six cars mado unassisted ascents, and of these the fastest was M. W. 13. May (Aston-Martin), although IL. Wny (2-litre Rover) ran him close. $F$. N. Foster (Wolscley Hlornet) succeeded where E. J. Erith, in the other Mornet, fniled. H. S. Linfield (M.G. Midget S.) came un fast to the first bend and thereafter crent up - nnder bis own power-and J. K. 'Temple's was the only other M.G. Midget to make a clean climb. J. S. Drewelt (Austin Cun model)-rumning well ull to time-was the first car on the hill and climbed perfectly steadily
and perfectly clean-an outstandingly good performance.

For the rest wheelspin and the inability to control a ear under the bad conditions prevailing accounted for nost of the failures.
J. H. F'uller (lfrooklands Rileg) failed carly, and Mrs. M. Vaughan (Riley) stoplyed her engine when brought to rest by wheelsisin, and fitted chains before she could get away again. IR. J. W. Appleton (Riley) gracefully retired from the scene, preferring to reverse down the hill rather than deley matters further by being nushed up, foot by foot. and H. C. Manter (Riley) got up a little higher than Appleton before failing.

## Gallant Failures.

G. E. Tuylor (M.G. Midget) made a sood attempt, and Miss N. F. May (M.G. Midget) also made a plucky show, with her male nassenger standing up and bouncing heartily. I). W. J. J'isher's Singer Junior saloon came well up the early slones before failing, and made an easy restart-which the majority of the failures could not do!

Kipscombe Hill was the last hill of the course, but compared with Yealscombe it was not difficult, and from there an 11 -mile run led to the finish at 13arnstaple.

The following car drivers checked in at the finish, having climbed all hills non-stop:-J. S. Drewett (Anstin), II. S. Linfielu (X.G. Midget S.), J. R. Temple (M.G. Midget). F. N. Foster (Wolseley Hornet), IR. Way (2-litre Rover).

## An Irish Handbook.

The A.A. has recently insued the " I rish Handbook for 1931-32," a uscful manual for intending tourists in Ireland.

## "Roundabout" in St. Albans.

Experiments have recently been carried out with a traflic "roundabout" at the dangerous juuction of Hatficld Road and St. Peter's Strect, St. Albans. The innovation seems needed.

## W.A.S.A. Trial.

The trial from London via the Peak to the Lake District, which should have been run on July 24 th and whth, has been postponed until September 1Sth and 19th by the organizers, the Women's Autumobile and Sports Association.

## Tails You Lose.

The Boornemouth Undereliff Drive with its rigorously enforced 8 m.p.h. speed limit has recently figured in a couple of curious motoring summonses brought by the local police-

The first was a " speed " casc. After a defence that the Undereliff Drive was a road and that therefore privnte cars were not now subject to a speed limit thercon, the Bench nevertheless convicted, holding the Drive to be a "public park" and consequently subject to the provisions of the by-laws.

Next came an "unduc care" case, and the defending solicitor submitted that since it had been ruled that the Uudercliff Drive was a " park" it could not also be a "road." Me contended that the summons was ultra viresthe section under which the summons was brought specified a "roni."

The Bench, however, were not to be deterred from having it both ways by this logical reasoning. Within the meaning of the Section in question, they said, the Underelif Drive was a road, and fined the defendant $£ 3$ !


THE FATE J. H. Fuller (Brooklands Riley) was one of the many to require OF MANY. such assistance on Yealscombe, where a alimy rock surface defcated all but six competitors.

# 5,000 <br> Miles with an 

 AustinA large part of the mileage covered by the car has been fairly rough going. This picture shows it on Bwlch-y-Gaoes, the well-known Welsh test hill.

IN our issue of January 23rd, 1931, in announcing the introluction of the Austin Twelve-Six we referred 10 it as Sir Herbert Austin's latest " masterpiece," and this is an adjective which, after nearly 5,000 miles' experience with one of these cars, we feel in no way disposed to modify. Our or:ginal opinion of the car, based unon a very careful examination of the chassis and unon a road lest, induced us to add one to our fleet of staff cars, and we took delivery eatly in May. The car was carefully run-in for 1,000 miles, and was then placed in ordinary service, which has included some distinctly hard work.

Before going on to describe our experiences with the "Twelve-Six," we shall refresh our readers' memories with details of the specification.

The six-cylinder side-valve engine has a bote of 61.25 mm . and a stroke of 84.63 mm .; capacity 1,496 c.c. Treasury rating 13.95 h.p., tax $f 14$. The c 3 linder head is of course, detachable, and a somewhat unusual feature of its design is that those portions coming above the pistous are perfectly flat for about half the diameter of the cylinder bore, a recess being then cast in to provide a clearance for the valves.

## Easy Tappet Adjustment.

The dynamo is carried in a cradle attached to the cylinder liead, the drive being by means of an endless rubber $V$ belt from a pulley on the nose of the crank shaft. Attached to the dynamo pulley is a large fourbladed fan. There is only one timing chain, and this runs direct from the cramkshaft to the camshaft, the shaft centres being so close together that no provision for chain adjustment or for a self-tensioning device is necessary. The tappet ends bear direct on the cams, whilst fiats formed on the tappets where they pass through the gruides prevent their turning. 'This, incidentally, is a considerable convenience when adjusting the tappets, as only two spamners are required.

Ignition is by coil aud distributor, the last named being mounted at an angle on the off side of the engine and driven by skew gearing from the camshaft on the near side. The distributur head is provided with automatic advance and retard mechanism. Skew gearing is used also to drive the oil pump, which supplies lubricant under pressure to all bearings, drawing its supply through a very large drum-shaped tilter detachably mounted in the sump.

The exhaust and inlet manifolding is carried out on distanctly up-todate lines, the exhaust manifold having largediameter swept branches and a forward outlet to the pipe. The inlet manifold is of aluminium and arranged to take a vertical carburetter. The manifold is well hot-spotted, and is of the buffer-ended type machined internally to a high polish heroughout its length and branches.

Fuel is fed to the carburetter by means of an A.C. petrol pump driven from the camshaft and drawing its supply from an 8 -gallon sear tank, the quantity of fuel being shown on the facia-board by means of a Hobson Telegauge. The engine is mounted in the frame in an unusual manner. Instead of the bearer arms "sitting" on the side members they are sus-

wended beneath them, this arrangement allowing for very much easier removal of the engine from lixe chassis.

Whe gearbox is bolted direct to the reat of the engine, and is driven through the medium of a single-plate clutch, the plates being pressed together by means of a single, large helicnl spring carried on a sleeve surrounding the clutch shaft. 'Ine gear ratios are 5.5 , 9.35 and 20.15 to 1.

The final drive is by means of a tubular propeller shaft haviug a Hardy fablic disc joint at the frout end and a mechanical joint at the rear. Spiral bevels are used in the rear axle, and, of course, a differential is provided.

Other points of inferest and of considerable impontance from a maintenance point of view are the use of Silentbloc bushes for the road-spring shackles, \%inc interleaving for the surings themselves and the use of special oilless bushes for the brake cam spindles. The brakes of all four wheds are interconnerded so that they can be operated either by the perlal or the centrally placed lever, the pull being transmitled through the medium of rods and cables. Each brake

# A Searching Test which Has Shown that the "Twelve-Six" is a Particularly Reliable and Efficient Car with a General Performance in Keeping with Austin Traditions 

## WELVE-SIX


is imlivilually adjustable, whilst there is, in addition, a master adjuster accessibly situated.

A point of interest in connection with the brake gear is the provision of oil-retaining felt washers on the cross-shatt bushes and on all the yoke end pins athl swinging lever pins. Worm and wheel steering is provided, and full provision is made for adjustment. The whels are of the Rudge Whitworth wire type ditted with Dumbon 19-in. by $1.75-\mathrm{in}$. tyres.
The electrical system is of the 12 -voll type and of Lucas manufacture, the large headhamps being pro-
vided with an electrient ding vided with an electrical dip-and-switeh mechanism controlled by a small lever mounted in the centre of the steering wheel, where also is situated the horn button.

## Useful Electrical Features.

Two very acceptable features in connection with the starting motor must be mentioned. One is the use of a relay switch mounted directly on the body of the starter and operated by a smail press button on the faciat-board thus eliminating the use of long, heavs starter cables right up to the facia-board.

The second point of interest is that the starter armature shaft extends through the rear casing and is provided with a squared end readily accessible from beneath the near-side rumning board; thus, should the starter pinion jam in engagement, it is the very simplest matter to "wind it out" by attaching a spamer to the square shaft.

The bodywork of the "Twelve-Six" is of distinctly good quality, and the lines leave nothing to be desired. The upholstery is carried out in a hard-wearing Bedford cord, the two front seats being adjustable, whilst that at the rear has a width which enables three normal-sized persons to be carried in reasonable comfort. although actually this sent is intended to provide ample room for two. Wind-up windows are fitted in all four dnors, whilst the windsereen, windows, quarter lights and rear light are of Triplex safety glass. The screen can be opened very wicle, and it is filted with a Lucas electric wiper.

How a car of such undoubtedly high qualits can be made to sell to the public at $f 198$ only Sir Herhert Austin and his staff can say. The fact remains that the car looks well, and certainly goes well. The
model with whicli we are dealing has never yet seen the makers' service station, and at the moment the likelihood of a risit seems extremely remote.

The car is not designed as a high-speed rehicle, but we have found that in favourable circumstances a speed of $60 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. can be reached, whilst $50 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. may be regarded as an easy touring speed. The engine is particularly smooth, as befits a "six," although one can notice a slight tremor at about $15 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. when picking up with a load in top gear. The period is, however, of a transient nature.

Whether or not it is due to the single central spring or to some other point in the design, there is no doubt that the cluteh is particularly sweet. So much so that there is no difficulty, when "showing of " the car, in starting from a standstill in top gear without sign of judder. Gear-changing, hy means of a long central lever, calls for no special skill, whilst owing to its extreme silence one has no hesitation in remaining in second gear at speeds of uo to $30 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. for quite appreciable distances should road conditions suggest this to be advisable. Incidentally, the "flat-out" secondgear speed is about $42 \mathrm{~m} . \mathrm{p} . \mathrm{l}$.

## Hill-climbing Figures.

With regard to hill-climbing, we have found that the maximum gradient which the car will climb comfortably when loaded, in top gear, is 1 in 12, and inclines of this order can be taken at a spleed of 20 m.p.h., whilst lesser hills of, say the 17n-10 variety-can easily be climbed at about $40 \mathrm{~m} . \mathrm{p} . \mathrm{h}$.
The gradient limit for second gear is about 1 in 6, Whilst during the time that we have driven the car we have found nothing steeper than 1 in 3 on which to test it in botiom; a gradient of this angle can be climbed at about $7 \mathrm{~m} . \mathrm{p} . \mathrm{h}$.
Top-gear acceleration is, in our opinion, quite satisfactory, as on a normal level road 14 secs. only are renuired to increase the speed from $10 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. to 30 m.p.h. Incidentally, the maden weight of the complete car is $19 \frac{1}{2}$ cwt.
For some little time we have been using a Solex carburetter, and with this a fuel consumption of $32 \mathrm{~m} . \mathrm{p} . \mathrm{g}$.


In this engine pho:ograph can be seen the very accessible dynamo, the A.C. fuel pump, Solex carburetter and R.P. thermostat.


General arrangement of the modified hand throttle control, which has a reversed Bowden action-that is, the casing pushes instead of the cable pulling.
on long runs and 29 m.p.g. in town is obtained with the foregoing performance. Oil consumption works out at about $2,800 \mathrm{~m} . \mathrm{p} . \mathrm{g}$. Incidentally, the gearbox is lubricated with engine oil, whilst a lubricant no thicker than engine oil is used in the rear axle. Both of these two components are, however, entirely oiltight.
It is, perhaps, unnecessary in connection with an up-to-date car to say that the brakes are of ample power, but certainly those on the "Twelve-Six" provide a feeling of considerable security. Furthermore, the road-holding of the car, assisted by means of Hartford shock absorbers both front and rear, is exceptionally good, thus even when braking from high speed on a bumpy road there is no sign of grab or judder:
Turning now to minor modifications which have been made to the particular car with which we are dealing, we have mentioned already that a Solex carburetter is fitted. In addition, a hand control for the ignition distributor has been arranged; it works in conjunction with the automatic control. By this means the range of advance is increased by alout 16 degrees, with conserguent benefit to the speed of the car.

## Control Arrangements.

One of the accompanying sketches shows how the control is arranged, whilst another skefch dopicts tho hand control for the throttle, the fitting of which was necessary when the Solex carburetter was smbstituled, as the original combined strangler and thettle controt on the standard instrument was no longer able. Both controls, as will be seen, are of the lonwden wire variety, twin levers being clamped to the steering column just below the wheel.
Another addition to the standard equipment is an R.P. thermostat with racia-board thermometer, the thermostat being fitted to ensure rapid warming-up of the engine when a series of short runs is being undortaken.
Those who are accustomed to chain or gear-dripen dynamos may be led to imagine that belt drive is not, perhaps, as positive as might be desired. This, however, is by no means the case, as we have adjusied the belt only twice in 5,000 miles, and it now appears to need no further attention.
To sum up, it may be said that the "Twelre-Six" is another of those rery eflicient models which emanate from time to time without any blare of trumpets from the Longbridge Works, and it is just what one is accustomed to expect of all $\Lambda$ ustin products-a thoroughly satisfactory job.


How the ignition control was fitted up. A modified type of clamp is used to anchor the Lucas distributor, which is shown in "ghost" view.


## A 56-tax Car.

O.Uli contributor "Focus" has been askjug for some considerable time why there is no car which enjoys the minimum horse-power taxation rate of ef per annum. This week he asks the fuestion again, bointing out that the sole jepresentative of the $x$-tax clats is an exceedingly c:apmable performer even with al latge fully loaded salonn borly: His arguments, in our oninion. camnot be retuted. Here, it seems, is a matket which even in the maelstrom of presentday competition none of our manufacturers seems in have noticed. And that it is a potentially large market is surely impossible to deny. Cars capable of spating only two or "three at a pinch" have sold in very large numbers in the past and there is no reason why they should not sell in even greater mumbers to-day. The man who wants a (ar to drive out his friend, his fiancée or his bride --not to mention the man whose motoring is nearly all on husiness-has no four-wheeler being specially made for him at present. The two-seaters offered to him are on chassis designed essentially for carrying bodies of a fair size, and the same applies in connection with coupés and occasinnal fourseaters. Who will come forward and offer to the motoring public Size 0 in motorcars? Size 1 has been with us for years and will seat and carry four grown-up people in comfort. The introduction of a smaller size might well prove as huge a commercial success as the vehicle we now know as the baby car.

## The Road to Ruin.

WMRINA to The Motor on the subject of whether baby cars should be used for drawing trailers, Sir Herbert Austin says:-"I suggest that already the baby car is being overloaded and that if this continual overloading takes place it will necessarily lead to the car becoming heavier and more expensive and the class of buger for whom it was made will find that his interests in the direction of the small, cheap car are being neglected. Past history has shown that small car's lave been made larger in order to increase the range of buyer, but the result of this increase in size has undoubtediy been a mistake."
Sir Herbert might well have gone on, in our opinion, to say that not only has the widely followed

## Topics of the Day

practice of "growing up" small cars been a mistake, but has led to the bankruptey of almost all who have pursued it. It reguires no great effort of memory to call to mind a host of light car manufacturers whose businesses have gone ignominiously to pieces because, in striving to please alr, they have succeeded only in pleasing none; in trying to make their little cars more ambitious they have lost the market they enjoyed and failed to find the market which appeared to await them. Even as recently as during this present season two makes of light car which, in the past, have enjoyed great popularity have gone to the wall for this reason. They reached the summit of their popularity as really light cars-light in weight and light on their owners' pockets. They faded out because they were so heavy and bulky that their performance was not up to scratch.

## Preserve the Countryside.

WE owe much as motorists to the march of progress, and would not hinder it; but it must be remembered that an advancing army, even though it be destined to succour us, may inflict a great deal of hardship in its passing. Thus new roads, the development of new estates and the inexorable laws which now govern safety-first measures are threatening to alter the whole character of the countryside. It is the march of progress in a ruthless form, and even the efforts of societies which exist for no other purpose often fail to turn the marchers from their course. We hope, nevertheless, that the old exhortation, "Woodman, spare that tree," will be borne in mind and interpreted freely, as it ought to be, when farreaching schemes of improvement are on foot. The beauty of the countryside has claims on every one of us, and those who find themselres in the position of arbiters of the fate of some fair landscape may not lightly sweep them aside.
It is untrue to say that motorists care nothing for the countryside and think only of the conveniences they can obtain, no matter what the cost. Good ronds, for example, are of paramount importance, but when their construction threatens the work which Nature has been carrying on for generations we all feel we must cry "Stay!"


A sunny green, bordered by flowered cottages, and backed by woods, describes the lovely village of Selworthy (lef and right), near Porlock, in Somerset. Allerford (above), near Minehead and at the foot of Bossington Beacon, is noted for its two-arched medizval pack-horse bridge.

## Rich Mixture

 Light Car Comment and Advice by gocus.
## The £6-tax Car.

WHO is going to be the first manufacturer to offer us a car with a $£ 6$ tax? When taxation by horse-nower was introduced in 1920 a minimum rate of ft was fixed, but so far nobody has gone out after the custom of the man who wants a fourwheeler but will not pay more than $\mathfrak{f} 6$ a year iu direct taxation for it.

The car which comes nearest to his requirements is the Jowett, which is the only british car with a $£ 7$ tax, the next lowest taxed models being the Austin Seven, the Triumph Seven, the Morris Minor and the Singer Junior, on all of which an £8 tux has to be paid.

## What John Citizen Thinks.

IN view of the remarkable capabilities of the Jowett-everyone knows that it will pull a fully loaded capacious four-door saloon at very respectable speeds and up most of our stiffest hills-it is a matter of amazement to me that none of our manufacturers has had a gamble on a $\mathfrak{f G}$-tax baby a18
car. With an engine as efficient as that of the Jowett and proportions akin to those of the Austin Seven, I can see no reason why it should not be up to the arerage for performance, and nobody who knows anything about the trade would deny that it would stand every chance of being a best seller.

In the minds of the public nowatays the tax of a car looms as large as ever. John Citizen will make a big sacrifice in comfort, appearance ant even in durability to save himself a pound or two a year on the h.p. tax. I believe he will even pay $£ 20$ or $£ 30$ more for his second-hand car in order to save a couple or three pounds a year on the tax, although obviously he would have to run it for 10 years to recover the extra outlay.

## Good Performance Essential.

HTOW is it, I wonder, that none of the motorcycle manufacturer's has awakened to this f6-tax market which is "sitting pretty"? Many of them find that with so much unemployment there is very little business about, and have been

casting around them for feesh outlets for their activities. If they were to ofter us small-car mohusiasts a fi-tax four-wheeler I think they would find that their enterprise would be richly rewarded.

Should there be a motoreycle maker who agrees with me and decides to proceed, I hope he will boar in mind that, contrary to a belief held in the motorcycle trade, light-car owners are not content with an inferior performance. I do not think that. a fib-tax light car, however attractive it might $^{2}$ otherwise be, would stand much chance of success unless its performance was as good as that of any other baby car. Sir Merhert Austin has been showing us for nearly 10 years that light-car owners are just as particular in the mater of berformance as are all other car owners.

## Can't Read, Can Drive.

ARE you aware that a man may drive although he cannot read? What al splendid story this would make for some of our scaremongers. The lood Traflic Act reduires an applicant for a driving licence to declare that he does not suffer from epilensy or sudden attacks of disabling giddiness and that he is able to read a motorcar number plate; it also requires him to be able to sign his name. I have searched through it carefully, however, and I cannot find any requirement in the matter of being able to read. There may thus he drivers on the road to whom "stop-caution-go," "no right turn" and all the other fumiliar trafic signs of to-day are meaningless,
yet the law has no right to hound them off the roads.

I am ready to make a free present of this splendid "story" to all the countless writers who think that road traftic Acts are good things and who are stupid enough to believe that if we make enough laws and rules and regulations we shall transform our country into a modern Utopia.

## A. Schrader's Son Writes

AWEEK or two ago I flung one of my feriodic grouses concerning the time and trouble which one has to give up to keep tyres inflated to their proper pressures. I mentioned 20 minutes as the time it takes me to trim all five and, oddly enough, nobody has written either to say that three minutes is their regular allowance or that an hour and a half would be nearer the mark.

One letter of quite excentional interest has made its way to me. It comes from A. Schrader's Son, or, rather, his London manager, Mr. F. H. Gerrans. Mr. Gerrans, having a heart, does not open with "My attention has been called to," bit thaws me from the outset by berinning "I notice with considerable interest . . ." Fe goes on to say that he knows all about our difficulties and that he has up his sleeve a very useful solution to them.

## A Time-saving Valve Cap.

ACCOMPANYING this letter to which I have just referred was a little box containing the " doings." This takes the form of an entirely new ralve cap which serves both as the outer cap and the inner call and is devised in such a manner that the tyre is inflated without unscrewing anything at all!
The new patent cap, which, incidentally, is not yet available to the public, has a springloaded dust excluder and contains a non-return valve which is airtight up to a pressure of 250 lb . It is schemed in allow the pressure to be tested without removing it and impresses me as being the most useful trre valve derice since the schrader valve made its bow. The sooner Mr. Gerrans makes this new valve cap available to light car owners the better pleased we shall be. God speed his eftorts.

## Splash Oiling's Only Virtue.

MIR. MANTLLL has been expressing recently his preference for splash lubrication, his principal point being that it ensures that the pistons and cylinder walls are thoroughly lubricated from the moment of starting a cold engine. This to my wind is the prime and only virtue of the splash system.

Pressure feed scores over splash in every other way except that it is harder on the owner who is too lazy or careless to drain his sump and clean his filters at regular intervals. Such folk, I think, should pay the pemalty of their waywardness. I do not agree that we ought all to suffer in order that their weaknesses should be pandered to.

## A Composite Lubrication System.

WHAT would be wrong with a lubrication system which combined the adrantages of both the splash and force-feed methods, yet which eliminated both their shortcomings? I have in B19
mind a system which provided for the oil to be forced through a hollow crankshaft in the conrentional manner, but which had a relief ralve so arranged that instead of by-passing surplus oil back to the crankcase it fed it to troughs beneath the big ends.

With an arrangement like this, oil which, because it was cold, could not get out of the big-ends and thence to the pistons would make its way to the big-end troughs vin the relief valve. When it thinned as the engine warmed up, the big-ends would restrict the llow past them to a less degree, and the quantity getting by the relief valve (and thence to the troughs) would be reduced, which would precisely meet the engine's requirements. I am not sure whether this idea is entirely novel. but it is certainly one which has not been applied to light cars. What are the snags?

## Where Passengers Score.

OIIR passengers have the best of it in the matter of seeing the countryside. There is no doubt about that. We were using a road with which my passenger was thoroughly familiar; he has driven himself along it for more than 15 years, and as we approached a rather sharp bend with lodge gates near by he gave an exclamation of surprise and commented on a fine old ancestral hall standing a few hundred yards back from the road. His surprise, it transpired, was due to the fact that he had never seen the building before! - He knew its name and that it was somewhere thereabouts; knew even that the lodge belonged to it, but had imagined that it was hiclden amongst the trees.

The twisty nature of the road at this point, presumably, had always occupied his attention, and it was not until he rode as a passenger that he "registered" details of it.

## Getting Intimate with the Countryside.

SOME time ago, to win a bet, because I had been "dared" and because I have a passion for try ing my hand at odd vohicles, I rode home from London on a tandem bicycle a distance of rather more than 30 miles. These are the perfect rehicles, if one excludes Shanks's pony, for seeing and getting intimate with the countryside. On that trip I spotted a dozen or more wayside curiosities which 1 had never noticed from a car.

Another interesting experience was making the same journey in a motor coach. On this occasion again I added consiterably to my store of knowledge of the road, seeing over walls and hedges which cut off one's view from the seat of a car and picking out in the distance landmarks that are hidden on my daily journeyings. Undoubtedly the man who drives his own car knows more of the surface and corners of a familiar roald than of the countryside which flanks it.

## Olympia in Hyde Park.

ALONGSITE me in a trallic jam in Hyde Park at about four o'clock on a glorious aftermon was a giant Daimler saloon, the royal arms on a slip pasted on its screen and a top-hatted foreigher, obviously of some distinction, siting. very interested in his surroundings, behind a pinkfaced, prosperous-looking chatufteur

I wonclered what this representative of at foreign nower thought of us. Within his immediate range of vision were motorcars which could not be bought for $£ 100$, , ofo, whilst the Park at the time must have held $\mathfrak{E 1 , 0 0 0} 000$ worth. Surely England looks nowhere more prosperotis than in Ifyde Park just before tea time on a dine summer's day. The coachwork section at Olympia would be drab beside the magnificent cars one sees there


A picture to bring tears of envy to the eyes of readers in foreign parts-the coast ketween Lynton and Ilfracombe, North Devon. Loster Point and Hangman Cliffs are shown, the highest land being 1,100 feet

## A Nother New hornet



# The two-seater coupe - a fascinating addition to the famous Wolseley "HORNET" range . . . 

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# "T OWING" THE LINE 

Humorous Sidelights on a Tricky and Nerve-racking Job with Which We Are Nearly all Faced at One Time or Another

TOWING can hardly be said to be a humorous subject. Usually it means that the thing towed is for some reason or other out of commission, and yet, in retrospect, happenings experienced while towing can be mildly funng. Like everything else, it is what you make it.


It was chatting with a former partner in crime that decided me to put on paper the outcome of our reminiscences.

Perhaps one of the funniest of our experiences was when we went to purchase my first car. It was of the very pateolithic type, and as that needs no more description.

The Little Gregg, for such was its name, resided at Swindon, white I was miles away in London. After voluminous correspondence we came to an arrangement whereby I was to swop an aged Enfield motorcycle in part payment for the Gregg. Without further ado we set out for Swindon. lartner in crime on a $3 \frac{1}{2}$ Rudge It the forward end of a low rope, I at the other end on the Enfield ; incomplete and aucient, I had used the best part of half a gross of hack-saw blades in altering its frame. It had no saddle, sit-up-and-beg handlebars, and a brake which would have shamed a fairy cycle. Nothing untoward happened, which was the more re-

markable considering that my partner went as fast as he knew how.

Arriving at Swindon some two hours before lightinguplime, we spent the remaining daylight in getting a relnctant Gregg from its resting place. A short exnmination showed that it could not arrive in London under its own power. Having shoved it into the road,
stopped three tramcars and as many other vehicles, we hitched up the Rndge and prepared to start.

I don't know what the Gregg weighed, I only know that it was a devilish thing to manhandle, having an all cast-iron engine and gearbox, and heary body, and no diff. I was, therefore, cloubtful of the capabilities of the Rudge, but partner said it would tow a steam engine up Urrys' I'et, and I knew that if anyone could beat horses out of an engine it was he.

I took my seat at the wheel, partner revred up, let in the clutch and proceeded to hop all over the road like an ngonized worm impaled on a fish hook. His engine revved surprisingly well, and half Swindon came out to see what manner of maniac was plaping a tattoo upon a gatling gun. Suddenly the rope broke; with enviable acceleration partner shot up the road, only to come back several minutes later and hitch up again. Once more the noise of his engine drowned the remarks of a particularly eloquent tram driver.

By this time the Gregg was covered with half the infant population of Swindon, and must have resembled a sugared almond in a wasps' nest. Finally I per-

suaded most of the brats to push the right way and we got going. Then, and not until then, did I remember the hand brake. Delighted at the discovery, I released it.

For the second time the Rudge shot up Swindon High Street, but this time followed by the Gregg, shedding children like rats from a sinking ship. We reached $20 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. with only a brace of urchins aboard, too frightened to let go. I would hare taken those two children to London rather than stop, but as it was a sharp gradient slowed us up sufficiently to enable them to abandon ship.

## Developed 200 b.h.p.!

There is a long drag out of Swindon. Up this we thundered. The Rudge, rolling and reeling about the road like a rogue elephant anchored by the tail, gradually ground its way upwards. We reached the top in due course, but not before I had clambered out and shoved. I must have developed some 200 b.h.p., judging by the heat and energy I gave off. Having got to the top, it took some ten miles before I was my normal self again.

By this time night had drawn its cover of darkness about us, and we cast around for some means of lighting. Stopping at a wayside garage, we managed to purchase two ancient Ford oil lamps for the car, while the motorcycle had to be content with ore of those

little crcle dynamos which drive of the front tyre. Our next trouble was a rear light. No garage had one. 'A rough patch of road, a steam roller and a sleeping night watchman gave us the opportunity to acquire one. Being honest by nature, this part of the narrative is apt to pain me; however, I maintained that it was the watchman's fault for sleeping so soundly. At any rate there was one less red lamp for him to fill the next night.
Having thus acquired our lighting set, we were fortunate enough to reach home with nothing more annoring than a few stops for petrol.

Next in my mind comes a story in which I took no part, but for which my partner vouches the truth. He was the chief actor in it.

## The Hammersmith Broadway Incident.

The scene opens in Hammersmith Broadway, London. Partner is perched upon a sugar box, which in turn is precariously resting on the chassis of an Austin Seven. In front is an Essex Six. The inevilable tow rope joins the two. The nair thus temporarily united impatiently await the dropping of the pointman's hand. A fussy dame, all eyes upon the tram she hopes to catch, steps between the Essex and the Austin; unheedful of all else, she trips over the tow rope!


Partner, ever chivalrous, dismounts from his sugar box, and hastily proceeds to pick the old lady up, conduct her to the pavement, and do his best to sooth her dignity. The pointman's hand has now dropped and beckons on the Essex, whose driver, however, nobly awaits his pal. The policeman becoming impatient in his turn, proceeds towards the two cars to investigate the delay, whereupon the Essex driver, fearful of intimate contact with the Law, lets in his clutch. Partner, having soothed the lady to the best of his abilities, turns only to see the tail end of his chassis fast disappearing in the melee of traffic. Undaunted, he runs for and, what is more, catches it.
What that "cop" must have thought at seeing an Essex preceding a driverless Austin chassis, which in B24
its turn preceded a wild man running for dear life I don't know, but I should like to hear.

This tripping up over our tow ropes seems fatally attractive, and in spite of heroic efforts on the horn we hare, in our time, upset more than one person. One particular instance is worthy of remark. While emerging from the runout of a mews, partner, who was doing the towing, stopped to let some traflic pass. His car was in the road, whilst my brother and $I$, in the towed car, were still in the mews. The rope lay across the pavement.

## "He Wouldn't Believe Me."

As it was dusk, we were particularly anxious to warn pedestrians about the rope, and having sighted someone a little way off, proceeded to draw his attention politely to the trap; however, he would have none of our warnings, apparently thinking that we wished to precede him in crossing the parement. Holding up his hand with the magnificent gesture of one who com-

manded us to remain immobile, he proceeded to cross, between us and promptly tripped over the rope in a most whole-hearted and vigorous manner.

I have never seen a stranger more angry, or one who let his feelings forth with such admirable lack of repetition. He looked quite respectable, too ; but there, I suppose humour is all a matter of opinion and depends largely from what angle one looks at it. From our viewpoint it was very, very funny.

Just one more. I happened one day to break down about 20 miles from home. A friend offered me a tow, which I thankfully accepted. My Good Samaritan proved a cautious driver. He never missed an opportunity to signal his intentions to the world in general and me in particular. His right arm must have been in a highly developed state considering the hand-wagging exercise in which he indulged. The author of the Highway Code would have loved him dearly.

Everything went very well until the tow rope broke, and then to my utter astonishment and chagrin I had the pleasure of seeing my friend disappearing into the distance solemnly hand wagging at every opportunity, which, as I learned afterwards, he continued to do all

the way home to no better audience than the trailing tow rope, than which nothing surely could have been more mute ar unappreciative.

Don't ask why he did not feel the loss of his burden because I don't know, but the story is quite true for all that.
T.B.Y,

## Six days fiectin at

Monrois Minimor Tuwnero ${ }^{\circ}$ s

"On the 24th February last I purchased an S.V. Morris Minor 2-seater, and since that date the car has covered 6300 miles. This figure is made up of general daily mileage in and around London and of six long-distance runs, and particulars of the latter may interest you.

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- 28 APRIL Left Glasgow 5 p.m. Arrived Newcastle-on-Tyne 11.30 p.m., via Biggar, Peebles, Melrose, fedburgh and Otterburn. Distance 160 miles. Stops 50 min.
- 1 MAY Left Newcastle 7.15 a.m. Arrived Croydon 5.45 p.m., via Darlington, Scotch Corner and G.N. road. Distance 317 miles. Stops 1 hr. Time $10 \frac{1}{2} \mathrm{hr}$. Average 30.19 m.p.h. Petrol 54 m.p.g. Rumning time $9 \frac{1}{2} h r$. Average 33.47 m.p.h. Oil $\frac{3}{3}$ pint.
- 17 MAY Left Eden Bridge (Kent) 12.20 p.m. Arrived Liverpool 11.30 p.m., via Kew Bridge, Uxbridge, Aylesbury, Banbury, Coleshill, Coventry, Newcastle-under-Lyme, Knutsford and Warrington. Heavy rain. Distance 263 miles. Stops $2 \frac{1}{2} \mathrm{hr}$.
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## INCREASING THE Braking Power

ONE of the new features of the 1932 Ohp Standards, as we announced last week, is the use of Bendix duoserve brakes. This braking system is not new, but hitherto its appliention to light curs has been by no means common. For this renson few light car owners are familiar with the principle.
In the case of vacuun servo brakes the "suction" of the engine is used to supplement the force which a driver can apply with his foot or hand. In the liydraulic system lascal's low is npplied in a manner which provides a considerahle "nuclanical advantage."
Similarly, with a mechanical servo motor denression of the brake pednl can be made to tighten a band on a slowly revolving drum. The tendency of the hand is then to revolve with the drum ; therefore, by coupling the bnid to the main brake centrols, a force far greater than that which the driver could apply
obtained with a pedal pressure of about 100 lb ., and a pressure of double this amount can be exceeded by most drivers. Nevertheless, if a much lighter pressare can be made to provide an equal or even more powerful braking effort or even more powerful braking
The Pendix duo-servo system has the advantage of great simplicity. The two shoes which are used in each drum are of normal type so far as their friction faces are concerned, but they are actuated in a special manner.
Fach shoe is separately pivoted on the back plate, and at the other end, instead of a flat face against which the can bears, there is a curved and slotted cye in which fits a trunnion block. The two shoes are connected by means of link gear to a balanced cam-shaned member, so designed that it does not change its angularity during the life of the brake linings.

(Left) The balanced
cam arrangement
shown in part-sec-
tion. Inset, the cam lever layout.
have been termed primary and secondary. It must be explained that the 13endix duo-servo system works equally well in either a forward or reverse direction. Thus, in forward rotation of the drum the leading shoe becomes the urimary, or actuating, shoc, whilst the rear one assumes the position of secondary. When the ear is driven backwards the functions of the shoes are reversed.
It might be thought at first sight that the wrapping action of the shoes would produce suateh or harshness, hut this is by no means the case. The very nature of the servo action ensures smooth, progressive braking, the rate of retardation depending entirely upou the driver.

## Cable Operation.

a special method of cable operation is adopted with the duo-servo brakes. Levers and rods are used in the initial stares of the system, but final connection with the brake cams is established by means of a special form of flexible cable working rather on the Bowden principle.
As the main braking effort is gener-

ated in the shoes themselves there is no particular load ou the cables; therefore, they can be reasonably light whilst still having an ample factor of safety.
The use of fiexible cables considerably simplifies the layout of front-wheel brakes in that no restriction is placed unon the steering lock. Furthermore, movement of the wheels in steering has no effect upon the brakes; they are applied equally whether the car be going straight ahead or round a corner.
Simple meaus are provided for adjusting each brake separately, or they can all be set by a master adjuster ; in fact, the Bendix duo-servo system, in its general layout, is so very similar to the normal direct-application principle, with which all drivers are familiar, that no difficulty should be found in its maiutenance.


IDEAS

T'HE choice of a sparking plug or 5s. is offered for every reader's hint published in this 'cature. No hint should exceed 200 words in length; if necessary a rough sketch shou'd accompany it and the sender must indicate whether, in the event of publication. he prefers 5s. or a sparking plug.

## Austin Seven Breather.

SYOMETIMES when driving an Austin Seven saloon With the windows closed the presence of oil fumes within the body can be noticed. The fumes are ejected, of course, from the holes in the valve cover, these acting as a crankcase breather. A
 simple device for dispelling the fumes is shown in the sketch. All of the holes save one are plugged and this is enlarged to take a $\frac{1}{2}-\mathrm{in}$. copper pipe which can be secured by flanging and soldering or by means of a screwed union. To the other end of the pipe is soldered $\pi$ cylindrical scoop rather larger than the carburetter intake mouth. The pipe is bent to bring the scoop concentric with, but just clear of, the intake mouth. In use it will be found that fumes ejected into the scoop) are drawn in through the carburetter and thus no longer enter the car body. It is possible that the warm oily vapour will have a beneficial effect upon the running of the engine.

## An Oil Drum Hint.

OIL taps of the type which are transferred from one drum to another sometimes tend to leak at the joint with the drum owing to the thick rubber washer haring perished. Three or four washers cut from an old inner tube make an excellent substitute.

## M.G. Midget Throttle Control.

ALITHOUGIf a hand throttle control is now standardized on M.G. Midgets it was not fitted to early models. Owners of these cars, however, can make a rery efficient control at small expense. The arrangement is shown in the accompanying sketch, in which it will be seen that the lower end of a screwed rod bears upon a lever secured to the accelerator pedal shaft. The rod should be of mild steel, about ${ }^{3} 6$ in. diameter and screwed for 3 ins. at its upper end. A bracket tapped to suit the rod is bolted to the steering column. The bottom lever is secured alongside the pedal by means of the nut on the existing cotter pin; it must be bent to the required shape by trial and error methods. A bole, in which the rod is a working fit-with just a little play-is drilled through the floorboard in a position which allows the rod to line up with the bracket hole and the pedal lever. When finally assembled, a wireless-type ebonite control knob) is fitted to the upper end of the rod. It will be clear that by screwing down the rod the throttle is opened, but further pedal movement is unrestricted. в28

Standard Clutch Lubrication.
TUBRICATION of the clutch thrust race on the 1 Standard Nine is provided for by means of a copper tube passing through the clutch cover plate. The end of the tube is fitted with a spring-loaded hall valve and it is sometimes diflicult to feed
 the oil past the ball. It will be found worth while, therefore, to remove the tuln-it is a push fit in its housing-and to substitute for the ball valve a Rotherham surinc-Tid lubricator. The lencth of the tubing can be incrensed if desired, and a little bending will bring the lubricator into a position where it can be reached by raising the bonnet, thus obviating the need for removing the front floorboards.

## Annealing Steel.

WHICN softening a piece of hard stecl to make it suitable for filing, it is useless to hurry the process. The steel should be placed in a fire and lieated to a bright red; it must then be cooled very slowly. A good plan is to bury the red-hot steel in fine ashes until it is cold. The metal will then be nbout as soft as it is possible to make it.
The method of rehardening must depend upon the nature of the steel. The cast varicty is heated 10 it cherry red, quenched in water and afterwards tempered. Case-hardened steel must be recased if the original hard skin has been cut away.

## Repairing Broken Road Springs.

WHEN, owing to some extra heavy road shock, a spring breaks it is seldom that all the leaves give out; usually it is only the top or master leaf, and the fracture occurs, in nine cases out of ten, at the centre where the clamping bolt is
 situated. If the car can be driven to a garage or to a blacksmith a new leaf can generally be obtained, but, failing this, a satisfactory " jury rig" consists of removing the lowest leaf of the spring and refitting it above the top one, as shown in the sketch. With the clamping bolt well tightened the short leaf will effectively hold the fractured one in place so that it is capable of taking its usual share of the weight of the car. It is anvisable, however, not to drive fast on bad roads with this temporary arrangement, but it will easily "get you home" if used reasonably.

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## TECHNICAL ASPECTS

# The Origin of <br> "Gulp" Flat Spots 

By L. MANTELL

## Physical Laws Which Cannot be Broken-Characteristics of the Fuel Layer in the Induction Pipe-Difficulties in Tuning Out the "Gulp"

LAST week I described at some Alngll the diagnosis of that tuansient and irritating flat spot known as the " gulp,." If the description was complete almost in the "long-winded" puint it is beeaus? $X$ generally find it very diflieult in explain without practieat ilemonstration the snture of this flat sput. Fiurthermore, as it is the most froublesome of all to locate and cure ant is, jncidentally, rather on the inerease owing to the present trent of erase owing to the present trend of
desimen, I wished to make the distinction as elear as possible before going on to analyse its origin, which $\hat{I}$ will now endeavour in do.

Nirst of alt let me explain that the juncr walls of the induction pipe or tract are gencrally conted with $n$ thin layer of fuel, which lins very peculiar characteristics.

It is not content to be merely a layer but it insists unon having a definito thickucss which, unfortunately, is not a fixal quantity but varies necording to the minus pressure or suction intensity, and also upon the temperature. When the hent is low and the suction value at its minimum the "eritical" of thickness is at its greatest, and vice versn, but this is not nll, for, when vuder its "critical " for that particular heat rad suction figure-l am using popularly compreliensible terms for ciarity-it tends to draw suspended fuel particles from the moving air stream; not the other hand, if over the " critienl" it gives of fuel vapour and enriches the passing charge.

In short, this touchy skin is n great nuisance. It exists under physical laws which make its complete removnl impossible and in the mechnnienl sense all we can do as $\pi$ mitigating measure is to reduce its area ns much as possible, not by undue decrease of the pipe diameter, for this is volumetrically inadmissible, but by having the inner wall as smooth as possille, which is the equivalent of a reduction in area. This is one of the reasons why a smoothedout induction system is better for smonth and even acceleration than a rouelt cast mic.

Mercin also an explanation will be seen for the increasing capacity to get a clean "snap" as the engine gets hatter, for the higher the temperature the lower is the skin "critical" nnd the less does it rob the current of fuel on
suddenly opening the throttle nt low speeds. Yet agriu, one can see an immediate renson for flatness at snapping in many eases, even when the engine is warm enough-a flatness that is generally cured by a smaller choke.

It is true that by choke reduction a कreater gumntity of fuel is inspired, but the main reason is that when idling along with an almost elrised throttle the suction is, of course, high and the skin "criticnl," therefore, very low. On suddenly opening it the vacuum nimost disappears, the "critical" instantly beeomes high and the skin promptly robs the current of ary suspended particles it can reach in an effort to become thicker.

If the pipe is very strongly heated the "criticnl" thickness may become almost, if not entirely, nil, but such a high temperature is not permissible owing to the accompanying power loss that would result.

Kepping these facts in mind we will now consider the carburetter. All static instrmments, that is to sny, those in Which the sprav metering and correntive arrangements are in the nature of fixed orifices and free from any vacuumoperated moving parts- are, in effect, if not actually, of the bi-jet order. One jet, usually ealled the pilot or slowrunuing jet, delivers at the edge of the thrnttle, whilst the other is a spraying unit, composed of one or two jets, the outlet of which is situated in the centre of the choke tube.

The main spraying assembly in modern carburetters is nlways fed either complerely or partially by n submerged jet placed at a level approximnting the bottom of the flont chamber, and in connection with this there is always a reserve of petrol enlled the acceleration well.
This fills mencrally through a restricted nrifice snd its upper surface is onen to tho ntmosphere throughen relief hole, or holes, at the top, or so placed that air at atmospheric pressure can always reach the unper surface of the well reserve On sudaenly suapping open the throttle the whole of this well content is ejected with the main output, but on gradually onening a rather complicated prncedure takes nlaee.
As the air current in the choke tube gains in velocity and volume the level in the well drops progressively but that
in the jet tube and the channelling leading thereto remains quite full of petrol, while any liquid is left in the well. Immedintely this is empty and the relief air from above breaks through, the whole content of the tule and its channelling between that point and the ultimate spraying orific goes up in ono sudden ejection, for the rising vacuum onerating on the sprayive orifice now becomes suddenly supplemented by tho float-chamber head pressure and for one instant the mixture becomes unduly rich.

Now if the induction pine is cool and the skin "critical" therefore high, the walls will toke un this sudden injection of the reserve and pay it out gradually to the nir stream, but if the pipe is hot it will not do so nad the cylinders drawing unon the manifold during the short period of this fluid influx are literally choked into silence-very momentarils. of course, and generally affecting only abont two consecutive firincs, but sometimes continuing for a whole cycle, thus producing a very marked jerk in the trnnsmission.

Constant-vacuum cnrburetters do not produce this amoying phenomenon for reasons that will now be obvious, and static instruments will cause it to a greater or less extent, according to the provision made in the necelerntion-well design for presenting the sudden infux.

The cure is very difficult without causing upsets in other directions, possible only to an expert as a rulc, for the conditions are so subtle.

From an engine point of view, reducing the induction-pipe bent by sowing or drilling through part of the hot-spot connection, if possible, is the easiest method, but, as regards the carbaretter aspect, it is best to go to the makers.

The renson why alcoholic fuels or petrols containing alcohol do not "galn" is that alcohol, unlike petrol, can be enriched to an enormous overdose before misfiring occurs. Its presence, therefore, in the fuel, even in limited quantities, will generally cure "gulp."

Provision is usually made in the most up-to-date static carburetters to cone with "gulp," but as a rule ouly in the latest types; a very large number of cars therefore suffer from it and as simple readiustments are seldom wholly effective the attentions of service stations are generally abortive. It is best to consult the makers themselver.


IN all parts of the country one can find quaint old villages where time seems to have stood still for generations past-relies of old Fingland and the picturesque days we read about in history. Such spots are alwus fascinating and generally have many au interesting tale to tell.
let low many motorists miss all but the superficial attractions of a village of this sort by driving straight through, merely noting that it appears a pleasant spot and has, for example, some thatched cottages, an ancient church and a beautiful old 'Tudor house over the green. But the traveller who has the time to stay awhile atd make a closer acquaintance will doubtless find that it has much more to speak to him about, for there are "sermons in stones" right enough and these old places surely speak of the picturesque past; given the opportunity, too, one can glean at least something of the life of the country dwellers at first hand. To explore an old village is ever a charming experieuce and an education.

A better start cannot be made than by endeavouring to strike upan acquaintance with a villager who knows somethlng of the history of the place and the things worth viewing. Frejuently one may happen upon the "wise man" of the village, whilst the postman is always worth tackling if one finds him enjoying his oft-duty hours in his garden. The parson, too, is generally an authority on his parish, and the schoolmaster is another person who may be expected to know all that is worth knowing of his own locality.

To obtain such a guide is of special value in getting to the heart of these places for infinite variety is one of their charms and, left to his own devices, the tourist

B32
is rery apt to miss much that is of outstanding interest. The green, the prond and the ancient stocks, for example, are olvious to all, but in nooks and corners, village industries, such as chair-making, straw-plaiting, cidermaking and glove-making, still pxist, if they do not fourish as of old, and are the things that the casual visitor seldom discovers.

IBut, although there is infinite variety in our villages and hamlets, yet there are things common to all and :n the absence of a guide the motorist cau search them out for himself.

## History in a Church.

The old church, long the centre of all rural activities, religious and secular, stands prominent above the nestling rooftrees of farms and cotlages. Inside, ancient brasses and mural monuments, with their simple inscriptions, are nearly always to be found, and from them one may read much of the past history of the parish and learn who were the men and women who for long centuries have ruled over the destinies of the place.

Almost every village has its manor house or hall and its rectory or viearage, whilst perhaps it can boast of the ruins of an ancient castle, a memorial of state and power; if so, all the better, for there is often some legend or story attached to an old manor or castle that is well worth hearing-if one can find anyone willing to pass an hour in genial conversation.

## GE

## A HEART



Sometimes, too, it is possible to drop into a village on a day when the grounds of the hall or manor house are thrown open to the miblic; it is abwys worth while to take advantage of such a stroke of luck and spare a few minutes to enjoy the beanty of the typically English seene.

The old barns that nestic round the farmstead are another charming feature of most villages; the more important are the ancient tithe or grange barns, which were formerly attached to some monastery, and were often built " as strong ass a church and as fine as a minster." In these tithe barns was stored the grain that represented the tilhes paid by the farmers, corn, hay, wool peas, heans, and so on, all being classed as tithes.

## The Larder of the "Gentry."

Interesting, too, are the ancient dovecotes that are to be found here and there, some of them very old. Mr. P. H. Ditchfield mentions one at Hurley priory, Berkshire, that was erected about the year 1307. At one time only the lord of the manor or the parson was allowed to erect a dovecote or pigeon-house. The Normans constructed massive round dovecotes made of stone, and later came half-timbered cotes in various shapes. Many of the older pigeon-houses have now disappeared, but wherever one comes across one in some old village it will generally prove well worth inspecting if at all accessible, for these cotes are links with a past when the "gentry" very often had to depend

A conlributor points out that there is much more in an ancient English village than a mere picturesque collection of cotlages. He shows how we can discover a wealth of interest in these sleepy old places
upon the contents of the dovecote for fresh meat for the table during the winter months.

Not less interesting are the old water-mills, with their mossy wheels. Many of these are mere ruins now, their ancient glories departed, but they still add distinct beauty to the landscape

Village crosses form another link with the dim past some of them, dating back to days before the earliest church. Most of them are now much dilapidated and defaced, their steps worn and crumbling, their columus chipped by countless generations of village lads, but in days gone by they were the centres of village life; tramping friars preached from their stens and in later times they were the gathering places of sassiping villagers.

Chese are the main features of practically every old world village and can be sought out by any motorist whether he be fortunate enough to find a local gride or not. 'Ihe visitor who is lucky enough to chance on a talkative villager is even more fortunate, however for there is far more in an ancient village than a mere picturespue group of cottages, and those motorists who roalize the fact have an almost endless source of objectives for their week-end runs.
A.S.

## (Left) The picturesque village of Finchingfield, Essex, - hich, amongst many interesting features has a church Lonument to William Kemp, who kept voluntary silence for seven years. (Below) Flaunden old church, Bucks,

 which many a casual traveller misses.


We welcome letters for publication in these columns. No anonymous communications will ta accepted, but writers maj use a nom de plume. To ensure publication in the mext issue, lettcrs should be addressed to the Editor "The Light Car and Cyciecar." 5-15 Rosebery Avenue, London, E.C. 1 cnd should reach us on Monday. Plcase urile only on ome side of the paper and leave a wide margin.

# SHOULD OLD CARS BE BANNED? 

## Readers Think Safety is Not a Matter of Age

## Reader Prefers Old Cars.

I was really surprised at your correspondent BM/OVINT having the courage to suggest that old cars should be banned. IIe is, apparently, one of those people who, having bought : new car, must inform the whole of Absence of f.w.b. England that he bas done so. In my Only liault. opinion, it dues not matter how old a car is, within reasom, provided that the mechanical enndition is sood, especially the brakes and stecr ing gear. It is a fact that the workmanship of the pre-war car was far better than the mass-produced car of to-day, which after about two genrs of average daily running is nothing but rattles and squeaks.

Look also at some of the 1923 models, which have been doing really hard work for cight years and are still on the road. Then, again, look at nome of the $19 \% 0$ models, a great many of then appear almost ready for serap. As regards accidents, it is not necessarily old cars which cause them, but cars which have mechanical defects, such as brakes out of ndjustment rand so on. This latter defect is sometimes found even in a brand-new car. Other accidents are caused by the type of driver, and are nothing whatever to do with the condition of the car.

My only objection to old cars is that they are not usually fitted with front-wheel brakes.
A.s.

## Reader Blames Depreciation for-

It seems to me that the question of whether or no a given car should be continued in use or scrapped is one which cannot be answered dogmatically, eilber in the manner of BM/OVHJ ur of his opponents. The

## - lisad Condition of <br> "Second-hands."

 determining factors fall into two groups, one consisting of conomic considerations, the other of the snfety and convenience of the general public. The questions of "selfishness" and " liberty" are not in either of these groups; they are in the same eategory as "the flowers that bloom in the spring.'The fublic interest will be adequately protected if the car is capable of being driven with case and under full control at moderately high speeds, say up to $40 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. , if its braking equipment is, at least, up to the stundard required by the law, and if its liability to mechanical breakdown is smali. Any ear that was oripinally sound on these points can be so maintained by prompt attention to repairs and renewals as and when they become necessary.

On the financial side, I am of opinion that the perfectly absurd rate of depreciation obtaining at present is responsible for the disgraceful mechanical condition in which many cars two or three years old are allowed to go about the roads. A man who buys a car for $£ 200$, and in three B34
years or so finds it has deprecinted to $\mathcal{L G O}$, is reluctant to spend $£ 30$ or $£ 40$ in having it thoroughly reconditioned, becanse he knows this will add little or nothing in jts market value. So he sells it for what it will fectin, and it then very likely fiads its way irto the hands of an owner who, although he ean scrape up the price, camot afford the reconditioninf: and the car continues its progress towards decropiturle and becomes a danger and a nuisance to others.
This policy is entirely fallacious, for our hyporhetical owner, having sold his car for $\mathrm{Etj}_{\mathrm{j}} \mathrm{O}$, must how find an additional $£ 1.10$ for a new one, whereas an expenditure of $£ 40$ would in all probability have made the old car as gond as, it not better than, when new. It is, of course, for him on decide whether the extra outlay is justified to him by the satisfaction of his vanity and enhancement of his prestigeit any-and by such solid advantages as the may presume a new car will have.
I suggest that every car should be subject to nn anmual inspection by a competent authority, and that a certificate of soundness from that body should be a condition of its licence being renewed.

KW2173.
Good Service from 1927 Model.
As an old reader of the Light Car and Cyclecar, I hnve read with dismay the suggestions put forward by certnin of your readers that old cars should be scrapped. I'ersonally, I do not think this is quite

$$
\begin{aligned}
& \text { "As Good } \\
& \text { is New." }
\end{aligned}
$$

British, and to my mind rather sugriests the feminine touch. I have driven cars and motorcycles for years, also acroplanes for that matter, but when I buy a car it is not something which is purely a convenience.

I have had my present car since $\mathbf{1 9 2 7}$ (one of the best of its dny in the $£ 200$ to $£ 250$ class), and have no ambition to get rid of it for one of the so-called later models. In consfort it gives me what I desirc. I know it thoronghly, and am thercfore in the position to drive it in its own sweet way. I decarbonize the engine myself because I prefer to, also give the whole car the attention it deserves.
l'eople tell me it looks as aood as new, and so it is. I can do my 50 to $55 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. if I want to, but when motoring for pleasure (and I assume most of us do that) who wants to drive at that sued?

I am not an old man, but in the early forties, and have no use for the individual who simply must tear from phace to place. That is not motoring, but merely making onesclf a nuisance to one's neighbour. Incidentally, I find I generally arrive at my nppointed place as soon as the other fellow.

No, sir, I say lenve the other motorist alone. If he has an older car and is fond of it, and it gives the service desired, what more cau be iecquired?

P113100.


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

## OUR READERS' OPINIONS (contd.)

## The Relay Grand Prix.

Maving read your account of the recent Relay Grand Prix, I was a little disappointed to find no reference to the extrnordinarily good performance put up by the " $\Lambda$ " car of

> Lea-lirancis
> sipeed. Nu. S tenm- A. N. Machachlanos LeaFrancis.' This enr, which was prepared entirely by the owner, nvernated 95.3 m.p.h. for its 29 laps. This was in necordnace with pit instructions. The last threc laps were covered by Mr. Mnchlachlan at 96.6, 97.4 and 97.7 m.p.h. respectively, in response to a "slightly foster" signal from
 * best lap was covered at 96.71 m.p.h.-Ld.

## Rust-proofing Steel Bodies.

With reference to the recent correspondence on the need for a rustproof finish we would like to point out that such a finish is not impossible to obtain at a comparatively low

Zinc-roating Process. or ename-are not so much due to any trouble with the cellulose or paints as to the surfaces on which these are employed. The panels are usually of steel, which is linble to rust easily, and they gencrally have a fuite smooth surface, which is sometimes not altogether free from seale.

The metal-spraying process, of which we are the proprietors in this country is rapable of aiving $n$ thin lnyer of metallie \%ine to such surfences, nud this thin layer is rustproof over n very long period, as the zine is deposited in a pure form. The process is cold nant therefore does not distort the pancls, and no acill is used, the conting being, therefore, freo from " spotling out," which sometimes necurs on electrodeposited coatings. For the preliminary process of metalsproying the surfaces have to be samdblasted, and are therefore guite clean.

The final surface of the zinc has a slightly matt finish. It has been found in practice that this slightly matt surface gives an extremely good base for all enamels and paints, and prevents blistering due to contraction of the paint film and differential expansion due to exposure to weather. Furthermore, it cuts out the necessity of using priming contings, as the zine acts ns a metallic primer.
The enamelling process, therefore, can sometimes be chenpened to compensate somewhat for the extra expense of metnl-spraying.

If a fracture of the paint occurs no rust will appear through the broken film, as a rustproof zinc coating is undernenth.
The reason why the process has not been used extensively by motorcar manufacturers is that it would probably add 10 the cost of an ordinary motorear by $£ 2-£ 3$, and in these days of severe competition manufacturers have felt that the extra price would be diffeult to ohtain.
W. E. Ballard,

For Metallisation, Ifd.

## Aerolite Pistons.

We note that in rour description of the new Standard Little Nine you state the "Acrolite pistons-of which the four vertical flutings with oil return holes are a fenture-

## The Principle

of Design.
as " heotbreak" and are an essentin feature on the Mark IV piston.
The oil control is taken care of by Cygnet rings, with which all Aerolite pistons nere fitted. The self-compensating success of this piston is due to the presence of this "hent-brenk," tozether with the twin webs in the head. Acrolite pistons were fitted during 1931 to all Standard Biz Nines, and, as a result of their no-trouble fenture, will be fitted to both Big and Little Nines during the ensuing season.
C. Everys George, Dircctor,

For 'Tie Light I'roduction Co., Litd.

## Open v. Closed Cars-More Pros and Cons

## Blind Spots and Reflections.

Despite the large number of lelters you bave published on the pros and cons of open and closed cars, no one scems to have stressed what, in my opinion, are the freatest curses of saloens-ulhe poor driving visibility enused liy thick sereen and toor pillars, and the confusing redections at night resulting from the neres of plate oflass.
L. II. J. Nemanan.

## The Verdict of the Majority.

Why nl! this argument? Surely the verdict of the majority can be laken. One has only to stand at the roadside any week-end to see that, even for pleasure purposes,

Great I'opularity
of Saluons. the snloon has it every time. Personally, I changed to a saloon two years ago-
I liave owned thee open cars previously -and would not dream of going back to n tourer. I ain sure $m y$ experience is only that of countless other motorists. Norman Wichiams.

## Sports-car Owner's Views.

A journal of the breadth of outlook of The Light Car and Pyclecar must necessnrily encourage readers to proclaim the faith that is within them, even though they annthematize each other with ultra-clerical fervour.

> Why llame Others? But is it mot the fact llint the average man can only afford to run one car, nind that his choice represents a compromise between the wishes of his wife and his socinl and business needs?
'The writer is fortunnte in being a middle-aged bachelor, for whom the wiles of Circe have ceased to hold much attraction. Ire goes to the City by train, and he takes a toxi on those rare social ocensions lie cannot manage to dodge. Consequently, lie can please himself entirely about tho car he drises.

When motoring first attracted him. Je imagined that ndvancing years demanded a certain dignity in methods of travel, but after three months' experience with a six-cylinder a be with sumshine head he became persuaded that driving a bearse would be wild adventure as compared with motor-
ing. At this juncture he unbosomed himself to bis garage proprictor, when that excellent man diffidently suggested that he should try a sports car. This proved to be a revelation, and bo ertairly admits that he now has the time of his life.

But quite a number of fellow wayfarers do not seem to rejoice in the merry seream of sccond and the whine of third.

The writer enjoys erery minute upon the onen roal, and so, doubtless, do they. Why should we blame one nnother?

## Type Forty.

Open Car Owner Rides in Saloon.
Although I am an open-car enthusiast, I have not butted-in on the tourer $v$. saloon controversy because I have not had any great experieuce of saloons. However, a few dnys ago I went for a long run as a passenger
Finds Fumes in a very popular saloon, costing. I bePositively Awful. lieve, nbout $£ 300$. The fumes when the onthing over car-which wns fairly new-was doing the driver seemed to talic them as a maller of course. Need I say more?
S.A.L.
"M.D.D." Given Himself Away?
In his second letter to you "MI.D.D." hns given himself away cntirely. Kicplying to one of bis critics he said, "I motor to get somewhere, and, personally, I much prefer to

> travel in what he calls a drawine-room Traveller or than in what I will call an outhouse Motorist? "M.D.D." You regard your car purely ns a means of getting about, and, like all other "motorists" of the same type, you like everything to be as casy and luxurious as possible. That is typical of the saloon car owner.

It is the enthusinst who appreciates an open enr, for be knows that it represents motoring-not just travelling. I have owned-not merely driven-both open and closed ears, so can claim to have some experience to back my views.
l. L. Heaton.

## OUR READERS' OPINIONS (contd.)

## Fincd for Smooth Tyres.

I notice that "Welsh motor owner has been fined under the new Road Traffic Act for driving on smooth, worn tyresTo those about to set out on a motoring holiday the news

## A Caution for the Economical.

 will be a timely reminder not to run the risk of adding a fine to their out-ofpocket expenses. I'robably not two motorists in three are aware that to uso worn tyres is now punishable by law. IR. D. IBarmett. (Major.)
## An Austin in Ceylon.

I feel sure your many readers will be interested in the enclosed photograph of an Austin Seven in Ceylon. It shows the car at the foot of the Ramboda Pass-the stecpest and

## The Ramboda Pass.

 longest main road pass in Ceylonwhich consists of about 11 or 12 miles of stiff climbing. The litule car performed wonderfully well, taking most of the climb in second, with first on some of the hairpin bends. The scenery is benutiful and. as seen in the photograph, an enormous rock overhangs the road.I have been a reader of your paper for some years and look forward to receiving it every mail day.

> L. Giornon Loos.


An Austin Seven passing under the famous Ramboda Rock which overhangs the road at the foot of the Pass of the same name in Ceylon. (See letter above from Mr. L. Gordon Loos.)

## Protection in the Motor Industry.

In the interests of fair play I trust that you can give space to note a timely retort to the recent Frec Trade attack upon our motorcar manufacturers. Comparing hem with the ear makers of the United States, Mr.

## From Col. Sir T. A. Polson.

 Lloyd George declared that "our manufacturers were only concerned about manufacturing for the beantifully surfaced roads at home. They had not applied their minds to capturing the other markets aud constructing the right sort of machines for the occasion. If that tariff had been taken away they would have been driven to try and eapture the markets of the world, and they would have done it."Sir Eric Geddes's newly published "Mass Production," reviewed by you the other day, might have been written to coufute this tangle of mislending statements.

The author shows how the foreign mass-producer can fiond the market with goods sold far below their full cost of production, aud still improve his own profit position while foreing the zmprotected manufacturer into fast increasing loss mercly by reducing the latter's volume. He points out that because the unprotected manufacturer cannot be sure of his bome market he has no encourngement to incur the risk of spending the capital which would enable him to manufacture ior export at a competitive cost.

As for our motorear minkers, Sir Eric gives two striking facts which speak for themselves. Despite their "inadeGunte and temporary protection," he says that they have been able to adopt mass-production, at any rate in part, with the result that costs of production have fallen; prices to the cousumer are "about one-half of the 1914 level," and B38
for 』 vastly improved vehicle, while, concurrently, producers" carnings have about doubled.

Most Free Traders will be too wary in these days to try and answer the arguments of the Dunlop chairman, but perhnips amongst your readers there may be some who mny be tempted to challenge Sir Firic Geddes's conclusive case for a tariff. Let them be warned that in doing so they will run a grave risk of converting themselves from orthodox Cobdenism. Tios. A. Poison.

## CONDENSED CORRESPONDENCE.

"P.N."" in a long and interesting letter, makes some startling claims for a perfectly standard 192(; Austin Seven tourer which he purehased second-hand a year ago. IIe states that it has now done $\mathbf{1 0 , ( \% ) 0}$ miles since it was last decarbonized and that the valves have not been adjusted or ground-in since he purchased the enr, although his mileage in it is iust on 180 onO. In spite of this lack of attention and the fact thac the car is driven hard, he says that it is still running ex ell omally woll and will climl Xlms IIill. Henley. any day that it is climbable: since the beriming of June, in fact, he claims in have made 20 sacemts, fore of them having been made consecutively without hoiling.

## READERS' WANTS.

Figming.-Information on plaees where fishing is to be had in Devon and Comwall--MI. Jeonard Whebh, 71), Colfe Jond, Forest Hill, London, S.I\%.

Found.-I3ctween Bromsgrove and Worcester, a chrondiumplated Rover wheel centre.-G. E. Ormonde. Whitn Cottages, Foley Gardens, Stake Irior, Bromsgrove, Worenstor:

Lost.--Petween Corbridge, Northumberland, sad Carter Bar. a suit of motorcyelin! overalls betwean 9 sol 1 .m. ant 10.40 p.m. on Sunday, Jnly 2Gth.-II. G. Hicks, R.A. ${ }^{2}$. 'Training Base, Leuchars, Fife.
M.G. Midget.-Readers' experiences of the $19 n 1$ Jorvis model with oceasional third seat, with particular regard on durability of bodywork, zeneral relinbility, comport, spued, hill-climbing and rumning costs.-l'. W, Gaumbelf, (raigleath, Chartridge, Chesham, lueks.

## ASKED AND ANSWERED.

S.J. (Warrington). - As the magneto of your car has a jump-spark type of distributor you will gain no advantage from fitting external spark gaps.
A.1'. (Bournemouth).-The articles on "The Chemistry of Petrol." by L.: Mantell, appeared in our issues dated Junc 19th, Junc 2Gth, and July isd.
G.S. (Carnarvon).-Little indication of the state of charge of a battery is given by short-circuiting the cemminals to obtain a spark. The practice is, moreover, very liarmful.

IR.E.T. (Southampton).-As a general rule, pmeumatic upholstery is most comfortable when inflated to a point when the seat frame can just be felt by pressing hard with tho fingers in the centre of the cushion.
U.R.C. (Wallasey).-You are quite correct ; if you fit oversize tyres to your car, you can employ slightly lowe pressures. You would do well, however, to get inlo touch with the makers of the tyres you propose to fit to obtain their recommendation.
T.G. (London, S.W.3).-It is extremely difficult to tell from a mere description what is the cause of an extrancous noise in an engine unless a clue is given by the circumstances in which it occurs. In your case there appear to be no conditions which suggest the cnuse of the grinding found. As you live within reasonable distance of the makers' service station, why not take the car along and obtain the opinion of one of the testers? These men spend all their time tracing troubles and can usually tell in $a$ few minutes exaclly what is wrong.
M.S. (Fulham) - By all means polish the ports of your engine if you wish to improve the performance; raising the compression is another matter, however, and we alvise gou to go to work carefully. Some production engines benefit npprecinbly by the alteration, but others are nipt to become harsh and to need very frequent decarbonizing. $\Lambda_{\mathrm{s}}$ an experiment, you might try the effect of $n$ slight increase in the ratio by using a thinner cylinder-head gnsket, which you can cut for yourself from a well-annealed shect of copper ; a good jointing compound will, of course, be necessary with an all-metal gasket of this type. If you find that the engine is improved by the alteration you will be safe in having $\frac{1}{16}$ in. machined off the face of the cylinder head.

## SPORTS

Drivers Nominated for the
T.T.-Continental Forces Stronger Than Ever-News of the 500 -mile Race-Fine Meeting at the Avus TrackGerman Small Cars do Well

MOS'N of the drivers for the T.T. have now been nominated, and already it will be seen that this year's race-whether it be the last on the Ards circuit or not-should be the inest of the series.
The battle in the $1 \frac{1}{2}$-litro elass promises to be it outrance, and the entry, as you will gather from the list given under "Club Items," malies good readiug.
There is one Lea-Erancis ngainst three Aston Martins and three ErazerNashes 111 the 1,500 c.c. class. The "Isenf" will, of course, be blown, but T. G. Moore, who is driving his "Double'Twelve" Frazer-Nash again with W. S. Braidwood, is contemplating running without a supercharger.
U. J. Aldington will himself be at a " Nash"" whecl, and, in my estimation, " Aldy" is a fine rond-racing driver and linble to show us a thing or two.
Widengren and Onts will drive the little 1,110 c.c. Maserati against five

"Prevention -
Itileys. The Itiley contingent are nll capable of great things-Stanilaud, Ashby; Whiteroft, Noble and Victor Gillow
In the 750 e.c. class, of course, we lave $\Omega$ further round of the Austin $v$. Midget scrap, and 13 Midgets will sec what can be done about five $\Lambda$ ustins. In the latte: ranks we shall have the Relay Grand Prix icam, Cushman, Goodacre and J. D. Barnes. J'. S. Barnes will handle a Midget.

Among the big stuft the race will take on "t stern aspect, and Continental drivers are coming over in force to carry the Alfa-Romeo v. Bugatti fight a stage farther. We shall seo over here for the first time Louis Chiron, Achille Varai, aud Albert Divo driving Bugattis, with llouriat as reserve. The Alfa drivers will be Nuvolari, Campari and, as a visitor for tho first time, Borzacchini.
The "Alfas" will be the 2 -litre straight-etghts, and the lugattis will be the type which ran at Le Jans and showed terrific speed-5-litre straighteights. In the same class aro two Invictas.
Onc Mercedes will start, and nmong tho other Contincutal marques


Mascratis will be driven by George Eyston and an unnamed driver, Sir Henry Birkin and Earl Howe will drive Alfa-liomeos.

TALKING of inter-marque strife, the Austins will meet the Midgets again the B.R.D.C. 500 -milo race on October 3rd. On this occasion, be it noted, the handicappiug ealls for the 750 s to lap at $94 \mathrm{~m} . \mathrm{p} . \mathrm{h} .!$

Sir Henry Birkin will drive the single-seater Bentley in this race, Sir Malcolm Campbell will appear, but has not yet announced his car, and Anthony Bevan will driveanother supercharged 4 -litre Bentles'. Lord Mowe is down to pilot his new 2-3-litre Juzatti with which he competed at the Nurburg 1ting.


## - is better than cure!" Jmpresof a Mountain Handicap ai Brooklands last Monday.

TWHE regulations have just been issued dealing with the record attempts which will be made on the standing-start and flying-start mile and kilometro at Arpajon on August 23rd, nad on the 5 kilometres, 5 miles. 10 kilometres and 10 miles which will be made at Monthéry ou $\Delta$ ugust 30 th.

There atre clnsses for racing ears from J to $\Delta$, i.c., from 350 c.c. to S-litres, single-senter bodies are allowed, and there are no weight limits. World's, French and Internatioual records may be set ull at both meetiugs.

Full details are available from M. le Président du Notoreycle Club de France, 18, IBoulevard Gouvion Saint-Cyr, Paris, XVIIe.

THERE was tremendous enthusiasm at the Avus track, Berlin, when the first mecting for five yeurs was held on Sunday last. It is estimated that 210,000 spectators lined the course!

The track is a uarrow oval, with two

## JOTTINGS

BUMP !<br>An artist's impression of Leon Cushman in the Austin Special coming off the big bump on the home banking, where spectators declare, he broke the " 750 c.c. Brooklands altitude record" with consummate ease!

5 -mile straights sepurated by a grass strip and with slightly banked loops at each end.
The racing must have been thrilling enough to watch. There were three long-distance evelits in which all cars started from scrateh- 750 c.c., 1,500 c.c. and unlimited.

Four B.M.W.s (German Austins), four two-stroke D.K.IV. f.w.d. and two D.K.W. rear-drive cars started in the first race. The three B.M.W.s were interesting in that one had an o.h.v. head, another had an nluminium hend, and the third had a standard bead and a specinl exhaust manifold, in which the spaces between the pipes were packed with metal sharings to conduct beat to the inlet manifold.

The race became a duel betweon the o.h.v. B.M.W. and one of the f.w.d. twostroke U.K.W.s, which latter eventually won at 75 m.p.h.

Out of 12 starters in the $1 \frac{1}{2}$-litre race only two cars finished! There were two Salmsons, two Amilcars and eizht Bugattis, The course was 10 laps (122 miles). Four Bugattis led from the start and procecded to break each other up. One by one the cars "blew up" until ono Buarti, which had been first at the 7th lap and third on the Sth, crossed the line alone at an nverage of $93.5 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. $A$ bout fire minutes afterwards the only other car left running came in-a Salmsou.

The large-car class was a terrific fight between Caracciola (Mercedes) and Von Morgen (2.:3-litre Bugatti). These two, driving like demons, ran right away from the ficlel. The liugati led on the first two laps, but was jeassed by the Mercedes, which won at 115.50 m.p.h. for the 183 miles. Von Morgen had tyre trouble and linished $4 \frac{1}{2}$ mins. later.

T LICAR from Leslic Wilson, the hon. Lsecretary of the Midland $\Delta$.C., that the Amateur Climb at Shelsley on September 5th promises to be an outstanding event in the series.
There is to bo $n$ team event for clubs affiliated to the R.A.C. and for scratch teanis, and the cars may be racin: machines as distinct from sports models. Thero will also bo a special cup for the best aggregate time made by a tenm which was entered for the recent L.C.C. Relay Grand Prix.
Among the other special cups will be awards for the fastest climb by a lady, the fastest amateur driving in interuational races and, of course, cups for best time in the seven classes, subdivided into sports and racing cntegories.

I
RAVE just been glancing through the intricate maze of figures which Mr. Fbblewhite has produced showing the times of every competitor on every lup in the lielay Grand Prix, nnd several interesting things emerge therefrom, including some surprisingly high lap speeds.

This time chart is so nbsorbing that I
propose mublishing parts of it in full next week for those interested.

It shows, for instance, that the fastest lap was made hy A. MacLach1 an (Lea-Francis) at $96.71 \mathrm{~m} . \mathrm{n} . \mathrm{h}$. , that Lones (Morgan) lapmed at 93.09 m.p.h., nmi II. D. W:arker (super charged Midget) put in oue nt 92.23 m.p.h.

The Blow:r.

## CLUB ITEMS AND SPORTING EVENTS

## DUNSTABLE AND D. M.C.

Thin elub is holding a grass-track mecting in
Sunday August 9 ht, at Lewsey Farm. on the Sunday August 9 hh, at Lewsey Farm, on the
Liton-Dunslable main road. The first race will Hart at 2.30 pm .

## PAC TY ENTRIES

The following is the fall list of catrics, with nominated crivers
750 c.c.-M.G. Midgets (13 cars): N. Higgin, comery, $\mathrm{F}_{\mathrm{i}}$ S. Darnes, E. IR IIall and M. A Smith, S. W. B. Hailwood, R. H. Jackson, R. T
 tho Farl of March, S. A. Crablrce. V. B. Cooke Auslins ( 5 carn): IM Kasles, G. V. B. Cooke
not 11 Robinson, C. Goodacre, J. Darnes, 1 Cushman.
II. Widengren and R. F.

Ots 15 cars) :A. F Ashby and R. Pauling W. Noble and D. C. NacLachlan, C. S. Stani land and D. C. Maclachan.
1,500 c.c.-Lea-Francis: T. G Clarke.
 Newrame. 11. Comk and.
Frazer-Nash (3 cars): T. G. Moore ard W. $\mathbf{E}$. Bradwood. C. Penn. ITughes and D. A. Aljlivgon. II. J. Aldingto
3-Hitres.- Arrol-Aster (3 cars): "" $\mathbf{n z}$. Ormonde." Southwell Piper, and two unnamed driver C. L. Mraverateras, G. E. T. Eyston and G. Ramponi.

## FORTHCOMING EVENTS.

 Southport M.C. August Bth. Nand Itace Meting. Co Aust 9 It C.S.M.A (Midiand Conlrc). Social Rum

R.A.C. Ulster August 22 nd .

Hill-climb

## ABROAD.

Austria: Gulsururg Hill-climb
Ialy: Acerbo Cup Rt 16 th .
Poland: Tatra liall-clamb
Switzerland: La Bernina IIfll-climb.

[^1]RELAY GRAND PRIX.

## WINNERS OF AWARDS

First Prize, The M.G. Challonge Trophy, replica and purse of 25 suincns.- Cape. A. C. It. tho drivere, L. Cushwan, J. D. Harues and C Goodacre, souverime
Sacond Prize, The Malillall Cup… C. Elwes
 Third Prize, The Morgan Cup. - W. Warri
 do Dullerochc. replicas.
Prizes Awarded to Entrants and Drivers Who Tho Light Car and Cyclecar" Challenge Cup and replica. T'o the cotrant of the tasat team which ran to gehedule and finighed tho
raco within qualityinc time, C. Authony 11.496
c. ©. Aston-Martin, 847 c.c. M. Midycl. 847 c.c. Aston-Martin, 847 c.c. MG. Midgel, 847 The Marcli Cup-To the entrant ne-mako team to finsh the race withe first fying time. The Eari of Mirch Ithreo 74 ginale subercharged M.G. Midgets Marker, the Eart of March and E. K. Tho John Yule Cup.-To tho entrani of tho
 c.c. Bugatti, 750 cic. IS.C. Spernili. Ta tha * G. L. Willıs, souvenirs. "The Autocar" Souventrs.-TD ${ }^{\text {" }}$ Nh, entrant raco irrespective of schedule, but wiflulifying
 IIornct. Drivers, thu Hon A. Th Clatwynd, tho
 $\boldsymbol{R}$ S. Sutlaw, C. MI. Masters and © A. I'aul

 $\Delta$ Mis: ${ }^{\text {T. }}$ Gardne




## B.A.R.C. AUGUST MEETING RESULTS


(Veuxball), 35 sees.: W M. Couner (Lagonda, S), 38 Eces. A. B. Gllbert (Talbot). 41 recs. (Riley'). 51 secs. : S. Bills (Austin, S"), 58 secs.: G. L. Baker (Minerva), 1 min. 6 recs.
G. G. L. Willis (B.C. Specialo), 1 min. 6 secs. THE SECOND AUGUST MOUNTAIN HANDICAP. (Distance, about 12 milies) 1. T. S Fiothringham (Bugaiti), won by 240 2. B. E Lewis ITaibou, h cap m min. 14 secs 3. J. II. Bartlett (Salmsom, Ser , h cap 1 min.
22 secs. Also started: Sir 1I. R. S. Birkin (Maserati, S). scre: W, B Scott (Delage, S"), 34 Tecar. R. Mays innvicta). I min. 11 seca.
 22 secs.: B. O. Davis (Sunbeam. S) 11 min.
30 secs. C . Paul (Bugatli). 1 min . 11 sces.
 secs.: V. S. Halls (Austin, S'), 1 min. 35 acca. F. T. Ination (Lazonda. SI, 1 min. 35 aecs.; E. G. Iloughton (Lagondit, S), 1 mio.

THE SECOND AUCUST ONELAP SPRINT HANDICAP. (Distance, about $23 / 4$ miles.)
$1, \mathrm{R}$ P. Oats (O.M. $\mathrm{g}^{-1}$ ), won by 300 yd




 Special ), 48 secs.
THE LONDON JUNIOP LONG HANDICAP
(Distance, about 9 miles)


 20 secs.
ATTEMPTS ON BROOKLANDS FLYING LAP RECORD (held by Kaye Don (Sunticam) Mra Stewart (nerby Millerl, one lan at wo lays at 13497 m.p.
THE THIRO AUGUST MOUNTAIN HANDICAP (Distance, about 12 males).

1. II. C. IIamilton (M.G), won ly 500 yds.
 Esplen (Talbot). h'cap 10 secs. Also staried: W. K. Faulkner [Jugalti S]. scr. : W. G. Fisko
 Pauling (Riley'), 10 sece, Wi, A. Culhuer
 Paui (Ausine), 45 secs ${ }^{2}$. C. 11 Randall
 1 min .10 secs. ; C. L Guirer (Salmson), 1 min. THE LONDON LIGHTNING LONG
2. II. W, Purdy (Thoman-Special*), won by 35 yd.. ai 103.61 m n.h., h capl $1 \mathrm{min}$.4 necy. 2 Jack Dunfeu (Dallou) hican 1 min, 4 seca, 3 .
Sir II. R. S. Birkin (Bealley, S) hecan 5 secs. Sir II. R. S. Birkin (Bealley. S) hecap 5 secs
Also started: J. R. Cobh (Delage). Ecr. Paul (Sunheam, S) 22 aecs. W. W. Scot
(Delage, $S^{\star}$ ), 27 gecn.; T. V. G. Selby (Bugalti)
 B. Fe Lewls (Talbor), 1 min. 1 sec.; $\mathbf{J}$. $\mathbf{R}$

OLD CROCKS RACE (Distanco about $21 / 2$

1. R. Iivercy (1903 R(ver), won at 24.99 mp.h. heap mins. 14 sces.: 2, 14. Wylie
 teca cars started.
S, aupercharged; * under 1,500 e.c


Rub-a-dub-dub! Three men in a club :


They normally never agree -
(The actor, the banker E Admiral Spanker)


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

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 DISTRIBUTING ORGANIZATION

## AROUND THE TRADE

Mobiloil was the lubricant used for the engines of the official Austin Seven team in The Light Car Club's recent Relay Grand Prix at Brooklands.

Capt. A. J. Barlow, until recently assistant secretary of the Society of Motor Manufacturers and Jraders. has been appointed secretary of the Air League of the British Empire.

Lodge Plugs, Ltd., inform us that Kave Don used Lodge plags in the Rolls-Royce engines of "Miss England II" when he broke the world's motor boat speed record at 110 m.p.h.

We understand that balloons released nt the recent Exide sports and gala at Clifton Junction, Manchester. have been found at places as far away as Dulmen, Westphatia, and Lingen, Eanover.

We understand that Middlemores (Coventry), Mid.. who have been manufacturing cycle saddles and accessories for over half a century, have now obtained a controlling interest in S. A. Lamplugh, Lid., of Tyseley, Birmingham, who specialize in motor and radio gonds. For the present, both eancerns will retain their senarate identities. but both with be conducted from the head oftice at 89, Little Park Street, Coventry.

A new folder dealing with their Suner Easyfit luggage racks and touring equipment has just been issued by Frank Ashby and Sons, Lid., Bourneville Stamping Works, Charlotte Road, Stirchley, Birmingham. This list is the most comprehensive that has ever been issued by the concern and an idea of its wide scone can be gathered from the fact that details of lugage grids suitable for practically every make of car are given, this involving nearly 900 different stock models.

A London depot nt 7n, Rochester Row, Westminster, London. S.W.1, has been opened by The Aero Piston Ring Co., Itd., of Ieeds. The depot is controlled by their agents, lenderson IBros. (Motor Spares), Ltd., who are carrying a fill stock of Acro rings.

Both the official Austin team which came first, and the mixed team which came second, in The Light Car Club's recent Relay Grand Prix, were rumning on Dunlon tyres. I unlops were also used hy Iudley Froy whels he took first place with a Riley in the $\mathbf{1 , 1 0 0}$ c.c. class in the German Grand Prix.

Stewart and Ardern, Ltd., the London distribntors of Morris cars, have recently taken orer The Cunard Motur and Carriage Co., Ltd., Coachbuilders, of Chase IRoad, Willesden, London, N.W.10. The acguisition of the large and up-to-date works of this concern will greatly facilitate the hodybuilding and bodywork repair activities of Stewart and Ardern, Ltd.


A portion of the works of The Cunard Motor and Carriage Co., Ltd., which has been taken over by Stewart and Ardern Ltd. (see paragraph above).
\&ol'S Value OVER 50 LIGHT
for Yort CAR BARGAINS
for


1030 TRIOMPB Saper 7, canchluilt de luxe

1930 MORRIS MINOR, carchbalit ailoon, sunflina fawn very omall milleage, das li tone £93 1830 AOSTIN 7, Bladlum oporta 2-eeater: $\mathbf{8 8 9}$ jo3e TRIUMPB supar 7. K.C. aporia 2-neater,



mile trial.
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special Pout puable to
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Open Weekdoys 9 a.m. to 8 p.m.
1930 MORRIE MINO ..... £98
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asloona. We luve a selection of four. Fram
1920 SWIFT 10, de luse filurtic saloon, wire 920 SWIFY 10, de luxe faluric asloan, wit
lenther uphalnters, ieverol extran, .....  $£ 88$
1929red, goo£69
1928 ROV 1928 ROVER 10/25, de luxe fabrle raloon. £6S£48
Anolher al 1028 ADSTI82004
eyren, sery
conllilun
1927ceatn, extras. Colour: slrawbery and $£ 58$
192: AUETIN 7. courer, chalee of three all $£ 55$In perfect condition. 1928 FIAT t, de luse 2-renter and dickey, leathupholutery, many oxtrai, vers good f45

- ~ - 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).

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A small selection from a stock of over 150 cars, efc. MORRIS MINOR, 1931 model, Coachbuile Sunahine Saloon. Triplex glasa, fully equipped with bumpers, etc. low mileage. 8105
aboolutcly like brand new. Tax paid. (P.).: abolutely like brand new. Tax paid. (P.)
Soloon, red pneumatic upholatery hydrand Sporta Black Fabric full doah, clock. apeedometer, negligible mileage, carefully uased, meowner. Abaputely like new. Inaurance and toxed (H.) $\quad . \quad 102$ MORRIS MINOR, $1930,8 \mathrm{~h} . \mathrm{D}$., Fabric Soloon. chromium fittingo. F.W.B.'s, Triplex, in fine condition, brown finish, low mileage.

SINGER JUNIOR, '1929. "4-door Coachbuili Saloon. FW.B: 878 bumper barg. full dash, numerous extrad, magnificently finished AUSTIN, 1929, Black . Wydar ". Fabric Solcon. all equidment. plush upholatery. mont carefully used, very economical litsle
MORRIS MINOR, 1929,8 h.p. Fabric Salonn, full daph. electric horn, automatic acreen wiper, rear mirror, etc., special brown finish amart appearance, suitable for a lady. (P.) .. . AUsTiN, 1929, Chummy 4 -acater. full dath equipment. F.W.B. outomatic acreen wiper, etc. rigid all-wenther equipment, original
 DEed, full dosh. very economical and roomy car. (H.) $\ddot{4}$. Tourer, FW.B. . leather upholetery, masoificently finished two colous yery laat and of amari appearance. (H.) coloul very aat and of aman apearance. doble sunken dickey.
rimid all-weather equipment. F.W.B.' $a$, one owner from new.

ipeedometer. very fine mechanical condition (P.) $\quad \because \quad \ddot{F}, \quad \therefore \quad 238$ LEA-FRANCIS, 1925/6, $12 \mathrm{h.D}$. ; Sports, 4seater, F.W.B. beatiful condition throughout (P.)
CITROEN, 1927, 119 h.p., 4 -zeater, 4 -door Tourer. F.W. $B \%$.,$~$ Servo, rigid all-weat her equipment, dynama lighting. self-atarter. 222 orininal finish, very roomy, economical and attractive car. (H.)..
 coachinished, very mound ond serviceable car, bargain. self-starter, electric hom, luggage grid, magnificently refinished. $\$ 19$ 8 ALMson, 1924, 9 h.p. Sports 2-zeater, double sunken dickey. 514 self-atarter, dynamo ligining. wire whels, $(H)$, Hishory
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| Bodu Work- ${ }^{\text {Paint }}$ | \| Upholstery | 1 Turer- | \| Taxed Sill- |
| NAME.............................. | .................. Wha | anu) - |  |
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> Other Busincsa ancl Edstorial Netices and Subscription Rates will bo found at tho end of this section.

## NOTICE

Owing to postal delaya and irregularities it is advisable to post advertisements EARLY ON MONDAY so as to enoure os far as poasible that they reach us by the FIRST POST on Tueaday. Lely several advertisements have been received too late for inclusion although dispatched on Monday.

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

A.C.s, under $£ 100$. See pagg 22.

974-103
A.C. Carlton Garage. 1924 2-acnter, Just painted, 16 guineas: terms.
exchangea. 79 Carlton Vale, Kilburn. Open Sunday mornings. $974-398$
A.J.S. 9, 1931 fabric maloon de luxe, 4-door, pplendid condition. A. A inspection invited, \&l5y. Taylors, 49' Sussex Place, South Kensington
Station. Kensington 8841 .


AMILCAR, 1928 Surbaisse saper sports, Atreamilined, long tall, exceptional order thronghout, 285 1)enmans, $132-3$ Long Acre, W.r. Onen
weok-cnds. Teraple Bar $8135-6-7$.

AMILCAR, 1928, 9hp, Grand Sports 2-meater, 575.
1926. 9hp. Grand 8rorts گ̈seater, £45. Open Sunday morninga: ex-

AMILCAR, 1925, 3-scater Grand Sports, fabric body, leather stery, dynamo and alarter, plensure oiling, 4 ncw tyrea, bargang, s30.
(2100. Sco pago 22.

AMILCAR, extremely amart 1927 grand sporta 2.scater, specially toned mroughout, Laystall balaliced, high-comprosmion head, spectal vaives anri filed. quiet gearbox and aslo, mery powerful i.w.b. H. M.p.h. guaran. tecd. quiet gearbox and aslo, very poweriul i.w.b. MIarlford shock numerous extras, taxer, exportl; mainlained in perfect order and $\begin{aligned} \text { capablo of an exceptional performance, } £ 70 \text { or exchange. } & \text { " Shelsley.: } \\ \text { Ansty Road, Walsgrave, Coventry. } & 974-2166\end{aligned}$

AMILCAR, 8 hp, 1925 sporta 2-soater, finished dual colour, $f$.w.b., try
Shepherd's Bush, W.12. Open Sunday mornings. 245 Goldbawk Rr,
$974-18 \mathrm{~J}$

AMILCAR. Sco tho Naylor and Root bargains on page 20. 974-14.5
ARMSTRONG. 8851111929 6.cylinder 2-reater and double dickey, exceptional bargain. Morgan Ifastings, Led, 212 New Kingis Rd. (opposite ruthey wriugo stabuml, S.W.0. Fel., Puzney 7611 .

ARMSTRONG SIDDELEY, 1929 12hp 6-cylinder a3loon, taxed seara Paul and Co., 114 Ge . Portland St. Muscum 4117.

974-176
AUSTIN authorized main dealers. Immediate delivery of all models, new and second-hand, in stocle; exchange and deferred terms il desired,
Becchings. Led., Faruborough, Hants. Telephonc 279.
zzz-718

AUSTIN 7 We have several saloons and tourers for disposal, prices rangigg from f3s to elioo. All cars olfered aro in good condition. Deterred terms. Ingrave Motors, Ltd., Ingrave St., Clapham Junction.
S. Will. Battersea 5360 .

AUSTIN 1930 saloon, coachbuile, excellent condition, any trial, $\mathbf{e 7 5}$. Cars aupplicd on repurchase basis, on low delerred termas. Ask tor
particulara. Normand Garage, Lid., 489 Oxford St., W.l. Maylair particularg Normand Garage, Ltd., 489 Oxiord St., W.1. Maylair
$6801-2$. Open until 6 pm. Saiturdaya.

AUSTINS. Taylora selected bargains in Iustin 7s
1927 chummy, tho:oughly reliable, £ 35.
1923 labric saloons, from f45.
1929 Mulliner saloon, good condition, $£ 75$.
Ah cars olfered with 7 days tree trial and aubject to A.A. inspection。 Taylor, 47 Sussex Place, South Kensington Station. S.W 7. Ken. 82841.

AUSTIN 7s. Andrews Automobiles for Austin 7 bargains.
AUSTIN 7, 1927-30, tourers and saloons, $£ 40$ to $£ 90$. ready for the oad, tayed, insured, and gaaranteed 3 months: simplest hire-purchase chemu in existence. Write for list of 100 lighi cars, or call

Andrews Automo
Richnond 0576.
Pbone
$974-274$

AUSTIN 7, 1930 saloon, 1931 series, absolntely first-class condition ccept f89: cash. exchanzes. delerred: 10 other small cara and shop-

AUSTIM 7 , 1931 (and A USTIN 7, 1931 aaloon, sliding root, coachbuile, reduced during our
salo to bargain price f99. Whitby's, 7 Tho Vale, Acton, W. 3 . AUSTIN 7, 1929 chummy, 4 -scater, beartilal order and condition, £60;


AUSTIN 7, 1930 saloon, Triplex, 'mlleago 8,000, C-tspo Zenith, £8! 10s. Below.

AUSTIN 7 G.E. Brooklands sperial, 1928, entirely rebuitt (second, 19E8 Coo race), not yet run in, 267 10s. Eelow.
1926 chummy, taxed sear, excellent condition, £32 10s. Paul and Co.,
51 and 53 The Mall. W. 5 . Ealing 4633.

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


AUSTIN. Newnhame, na Austin agents, nlwass have an excellent selec AUSTIN. Newnhams, na Auatin agents, niwass have an excellent selec-
tull int on request. of this make available. Few examples below but

19317 hp coachbuilt aildingtroof saloon, blac, moderate mileage and very attractive, x95
1931 7hp sporta 2-scatcr, dark bluc, particalaris pretty little car, $£ 89$. 1930. 7 hp coachbailt saloon, maroon, beautiful condition throughout. 1928 7hp coachbuilt saloon, Btonc and brown cellulose, nice appear19287 hp chummy model, blue, very good order, 839. Newnham House, 237 Hammersmith Rd., London, W.6. Rlp. 4646. AUSTINS, under $£ 100$. Sec pago 22.

AUSTIN 7,
LOMg Avre, W.C. Opon weck-ands. Tomple Bar AUSTIN 7, Arrow sports, Cost £175, small mileage, x95 Menmans, AUSTIN 7. Steele Griffiths, 1931 saloon, taxed, shopsoiled, fillo Abbey House, Victoria SL. (Iacing Westminster Abbes). Victoria
0467 .



Austin 7. F. A. Cullum, A.M.Insl.B.E., M.IM.T., offers:-
Chammy, mileage under 10,000 , taxed and insured, unused during winler.excoptional condition, 545.36 1Iigh St., Eton. Phone, Wind-
sor $\mathbf{3 0 8}$.
AUSTIN 7, only slightly noilcd, 1931 2-seatcr eports. fielivered now from makers, July 2nd, 1931. guarantecd, mileago 1,200, taxed and exchanges and deferted ferms. Welderong Molor Mart, 645 Gareat exchanges ancl demerred Serms. We, Wimbon Motor Mart, 645 Garratt

AUSTIN 7. \&25, special sports 2 -seater, in red and black, laxed and
C15, chummy, good igres, Laxed and insared. Brlow.
$£ 3710$ s.: 1926 Jarris 2-seater, finished in twotone green, Etarter, gres. Below
$£ 32$ 1Js., 1925 2-seater, flared wings, good tyres, taxed. Below.

AUSTIN. Protect sonrself with a 3 months witten guarantec. Exansm
AUSTIN, 1929 black Wsdor fabric saloon, all equipment, plus upholstery, most carcfully used, very cconomical littlo car, $\mathbf{x} 65$. Kirk.
AUSTIN, 1929, chamms 4 -seater, full dash cquipment, 1. w.b.a, automalic screen wiper, etc, rigid all-weather equipment, criginal maroon
cellulese finimh, $£ 5710$ s. $\mathbf{B e l o w .}$
AUSTIN, 1927, 7 hp chummy, dynamo lighting, starler, specdometer,


AUSTIN 7, 1929 4-scater, recellulosed maroon. full all-weather equipment, excellent tyres, beautiful crder throughout, 86210 B . exchanges, 12 nins. Euston Station). 'Phone, Musoum 9515. 974-360

AUSTIN 7 fabric saloon, $£ 45$ with sunshine roof, taxed, safcty glass,


AUSTIN 7, 1926, chommy, starting and lighting, rigid ade acreens,


AUSTIN 7, The Iigh: Car Co. offer becial aports bargain. Below. 1929 B.C. Austin ${ }^{7}$. rycle wings, sperially tured engine, 2 carbaretters,


AUSTIN 7, 1928 Mulliner raloon, f47, twres, ancearanee and enndi-
tion almosi as new. 181 The Grave, Goldhaw Rd., W. $6 . \quad 974-368$

## SECOND-HAND

## LIGHT CARS AND CYCLECARS FOR SALE (continued)

 AUSTIN 7, 1929 Wydor saloon, black and red, condilion and appeat-
 AUSTIN 7. Brooklands Motor Co, ollers: 1931 fabric Baloon, uphol-


AUSTIN 7, 1925 coupc, taxed, excellent condition, £35. Below. Thal Sawyer and Co, 330 Gt . Portland St. Muscum 1925. 974-163
 ance to cash boyers. Exchanges. 12owinnd Smith. Below.
AUSTIN 7, £9 denosit; 95 grs. cash. 1931 roachbuile Enlonn, onat
 AUSTIN 7, f7 deposit: 75 guineas cash 1930 Wydne falbric saloon. maroon, exceptional concution frce tax, iree insurance 10 cash buyers:


AUSTIN. 1927 chummy, rery enci condition, f35: also choico ol


AUSTIN 7 specialiats. II. Glover Motors have large aclectirin of uced models at all times ready for your trial and examination. 3.5 (helver-
Lon Rus. Putncy 71344 (Open Sunday morning)

AUSTIN. 1928 7hp tabric salonn, goan tyres, angine juat nechazulent,





AUSTIN 71930 soloon, one owncr, remarkably excellont rondition



AUSTIN. Smith conditioned spells safety for used-car busers.
AUSTIN 7. 1928-9 saloons, choice of severnl, from $\mathfrak{E 6 5}$.
AUSTIN 7. 1930, coachbuilt saloon. colour kingfisicer blue, only done srax milense, deposil 220, balance 27.

AUSTIN 7s. "Thrro's no place lika Molmes." Specini show and sale ot suloce. We invile comparisan with any other firm in thnution. 'rhicke

 model, bluo and red, magnificent pertormance. 865 ; 1928 tourcr. very
 land St. Museum 1414 .

AUSTIN 1930 Swalow 2-scater, pericct throughout, several extras


AUSTIN 7 sports 2 -scater, 1925 , dynamo lighting, sharter, aperdomeler, clock, all-weather mquipment, ef.c., practicnlly unwrrn tyres, rcently confition, bargain, £24. 73 Mtsina Road, Balham, S.w.12. 974-g173

AUSTIN 7. Ruffell's Motors for Austin 7s
1929 Wydor fabric aunshino saloon, amall mileage, new condition,
ع62 10 s.
1528 coachbuflt saloon, exceptional condition throughoul, $£ 48$. 1527 G.E. Jabric chammy, soper-tuned engine, engineer owned, 236. 1925-6 Tourers, fulls equipped and in really sound condition, 220 to
f26.

Exchangea, hire-purchase. Open Sundays 1.30.
Rufiells Motors, Whilo Lart Lanc, Barnes, S.W.13. Prospect. 5549

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

AUSTIN 71931 coachbuilt saloon, fitted aunshine roof, nearl new, very shnall milnage. s99: part exchange and deferred terms. Mritigh
and Colonial Mrotors, Ltd.; 8.9 Long Acre. Temple Bar 3605. $974-85$
AUSTIN 71950 Swallow salocn, Laxed, elly. Below.

AUSTIN 7 Cup 1928. new tyres. taxed, exceptimal conditinn, e45;


AUSTIN 7. Il you are looking for a good accond-hand Austin 7 towrer or sloon, Write to-day flir Prewier a latest idargan list Splendid seloction of overhauled and funrantecd models at the ripht prices. Freo
delivery, extendel terms Premict Notor Co., Astoد Rd., Birmingham.
 AUSTIN 7, 1931 coachbuith sunshine saloon, dark bluc, leather upholstery, uerd for fow demonstrations, $£ 122$. Welow.
1031 model tabris saloon. black-red Hinc, leather upholsters. clean con-位保 throughout, guaranteed, £90. Bolow.
1930 sunghino saloon, new April, mileage 7,200 , grid, spotlight, first
clasa order, f90. Below. 19.30 sunshine coupe, coachbuilt, 2 tono body, small mileage, as now 1929 Stadium 2 -ceater, bronze-brown, very small mileage, any trial and guarantee, $x 80$. Below.
1929 (July) Mulliner saloon, mrown. nover changed hands, milrage 1 tyan
petrol
Wad
and petrol cad and cartier, wery attractive, moquetio upholstery, new tyres, A. 1 order, Laxed ycar, $\mathfrak{x 5 8}$. Below. 1928 (Juce) Gordon Cup 2 -seater, black-green, 4 new tyres, Triplex,
very aftractive, ${ }^{2} 52$. Below. 1928 4-apater, very sound mechanically, just caach-painted brown, 1928 4-arater. very sound mechan
one chatgo ownership, 445 . Jelow.
1927 (July) Gordon Cup 2 -scatcr, dark green, $£ 20$ extras, superbly
kept, 19274 sealer, kingfisher, bluc. Step mats, 2 horns, mirror, automatio 19261, 4.aeater, rigid sidearreeng, maroon, very fully equipped, taxed
Soptember, msured, $x 35$. Below. 1925 (May) 4-seater, prey, specdometer, now balloons, automatio £30. Below

AUSTIN 7.
E75. Aselow. 1930 modol 2 -scater, taxed sear, mechanically perfect,
1930 mindel Swallow saloon, taxed year, beautifully kept, small mileage,
\& 105. lelow. 1928 Gnrdon Encland Cup model, taxed, good tyres, excellent mechant-
 AUSTIN 7928 Gord condition throughout, good liyres, Laxed, \&45. Bellewstery, exceptional AUSTIN 1928 chummy, excellent condition throughout, all new tyres.
 AUSTIN - AOUTer 1931, Laxed, c85 117 Oper Grosveupr Rd

AUSTIN 7. 1951 galnon tixed year, mileago 3,000 onls, condition as
now throughoui, fios. Below. AUSTIN 7, 1930 Wydor coachbuilt saloon, taxed year, 867 10s. Paul and Co., 114 Gt. Porlland St. Museum 4117.
974.175

AUSTIN $7,{ }^{1928}$ touror, excollent appoaranco and condition, taxed and Austin ${ }^{\text {Black, splendid condition }} 1928$ England Cup 2 -scater sports, finished redblack. splendid condition. £52. Below.
AUSTIN 7, 1929 model Mulliner fabric salnon, exceptionally good conultion throughout, taxed and insured, $£ 65$. Below.
AUSTIN 7, 1930 tourer, finished blue, almost new condition, taxed
 mornings. Rd., Sbepherd's Bush, W.12. Riveraido 2365. Open $\begin{gathered}\text { Sunday } \\ 974-187\end{gathered}$
AUSTIN. See the Naylor and Root bargalns on page $20 . \quad 974.142$

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

AUSTIN 7, 1929 Wsdor fabrio saloon, hlack and red in vers good

AUSTIN 7. 1931 supercharged Brooklands 2 -seater, as brand new.
 dered Empire Mots,
B.S.A. 3-wheclers from Hackford Motors, Led.
B.S.A. Let G. A. Norchi demonatrate thla one enginecring job to sou, Bhe casy runoing will amaze you.
 BuGATTI, 11.9 2-scater, really exceptional condition, $£ 32$ 10s. Metro

BUGATTI. Wo specializo in these cara. 1929, 1928 and 1927 in stock. Writicn guarantee with evory car. Yancgest stock of sports cars in $\begin{array}{ll}\text { Great isritain. Onen Surday morning. Exchanges, deferred. Bartlett. } \\ 27 \mathrm{~Pa} \text { Pembridgo Villag, Noting Mill Gate. } & 97438\end{array}$

PUGATTI, 1926 modified Mrescia, special Jartl 2 seater sports body, bull-bearing engine, brand-new tyres all round tax paid, overhnalled

Bugatti. Smith-conditioned spella salety for usedecar bugers. 1930 Grand Prix 1,500 c.c. 4-cglinder, with high-compression overhead camshatt engine, coil 1 gnition, ${ }^{4}$-specd close-ratio searbox, Rudge. Whitworth
wire wheeln and spare, tyres nll in ncw condition: itted with wiro wheeln and spare, tyres nll in new condition ritted with standard
allaluminum racing Bugatti body, large racing petrol tank, 14 gallons capacity; fitted with windscrecn and quickly detachable close-op wings.
 El175. F G. Smith (Motors), Led., Goodmayes, Iford. Phone, Seven
King 1000 ( 7 lines).

CITROEN, £30, 1927, 12-24hp, 4-door saloon. complete equipment.

 CITROEN $70,1926,2{ }_{\text {nnd }}^{\text {nnd }} 4$-scaters, overhauled and in sound con



CITROEN, 1927-8 2 -seater, rers smart and clean. £35. Denmans, 132-3 Long Acre, w.C. Open wicek-ends Templo Bar 8135-6.7. 974
CITROENS, under £100. Sce page $22 . \quad 974-105$
CITROEN, 1927, saloon, overhauled and fitted new tyres, repainted,


CITROEN 7, 192t, 5 -seater, starting and ligbting, balloon tyres, in


CITROEN, s12; exchanges '1! 1925.67 hp cloverleat 3-seater, exce!lent
condition. Chicley, 579 g High Rd., Tottenham. Phone $2920.974-325$
CITROEN 7 hp . £15. Cloverlcal 3 -scater, excellent condition throughout, incluling tyris. open to any examination and trial. Jarvis and Sona,
Lut., Victoria Orescent, Wimbledon. Phong 2526 .

CITROEN, 1925, 7 hp escater, 4 nearly new bolloon tyres, good kood,



CLYNO, 1928, 12.35. 5-seater, maroon, 3 new Michelins, wings repainted, aplendidly sept, $£ 35$. Below.
1927 (Febraary) 4 -seater. f.w.b. biuc. clean and well kept. owncr taking saloon, $£ 22$ ( $£ 8$ down, balance instalments). Below.

CLYNO 10.19264 -ioor salon, f.w.b.s and full equlpment. ${ }^{2}$ good, Bridgo Rd. Wandsworth. 'Phone, Putney 4466. Upen Sundayg. $974-\mathrm{g} 185$

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

CLYNO, 1925 , 4-gcaler, tax paid, hrand-new Ljeres all pound. entirely


CLYNOS. Andrews Automobiles for Clyno bargains,
 exibience. Write for liat of 100 light cars or call.

CLYNO, $9 \mathrm{hp}, 1928$ chumms, 4 -scater fabrlo body, i.w.bs, excellent mechancalls, 225. Bclow.
CLYNO, 1926 Rosal lourer, leather upholstery, very good condillon

CLYNO 9. 1929 fabrl, aloon brown, in rery good condition. 250. 11. and A. Molors, 69 Chu

974-106
CLYNOS, under $£ 100$. Sec page 22.
FIAT $\mathbf{~ C 3 5 , ~} 1928$, 11 hp , 4-seater, leather upholstery, complete equipment, tased, insured comprehensively tix Februsry, excellent conditiont
exchanges, delerred. 86 Acro Lane, Brixion. 'Phonc 3401 . 974 -5186
 Flat. Carllon Garage. 292610 hp drop-bead coupc, 29 guincas:
terma, exchangem, 79 Cartion Vale, Kilburn. Open Sunday mornings. FIAT Y, $2 y 28$ model 4 -seater, f.w.b.s and full equipment, tax $\frac{5 y}{5}$, ex.
 Sundass.

FIAT. Sce the Naylor and Root bargains on page 20 . 974-148 FIAT, f12 10s.: 1925 10-15 tourer. sound condition: insed; Gargain.
Ward and Co., 5 Upper Richmond Rd. East Putuey 2818. $974-381$. FlAT, 1925, 10-15 4-seater, splendid order and condilion, complela and taxed for year, bargain, s.25; cxchangea or delerred. Cumminge,
201 Fulbam Ed., London, S.W.3.

FIAT. Smlih-conditioned spells salety for uacd car buyors.
FIAT 9, sports coupe, 1930, colour scheme blue with red piping lines, excellent condition, -y last, deposil $£ 55$, balanco $£ 100$.

FiAX, 1929 . Bwr an saloon, engino just been rebored, a most aterac-
 FIATS, under $£ 100$. Sce page 22.

974-107
FRAZER-NASH Cars offer for saio number of uncd cara, including 1928 Boulogne 3-seater, 1928 Boulugno model with anceial 4-scater


GWYNNE, f5911! $1928 \quad 10-40$ eports 2 seater and dickes, Perrot W.b. Denmans, $132-3$ Long Acre, Wi.C. Open week-ends. Templo
liar 8135-6.7.

CWYNNE 日. late model, 2-3̄-seater, Hghting, starter and numerous


HUMBER. 1929 (.Jaly) $9-28$ coachbuilt saloon, (w.b., leather upholstery, perlect throughent, faxed December, 135 guineas, Lecs and
Bennett, 40 Linhopo St., Upper Park Ylace, N.W.1. Paddington 9550
$974-417$
JOWETTS. 1928 long 4 scaters and 2 -scaters, 875 : 1929 short fabrlo


JowETTS. Manchester. 1927, 1928, 1929 and 1930 saloons, tonrers Den Z-seateri, alwas in atock. alain dintributora, Saxon Jefleris. Lid.

JOWETT. Chinglord Automobiles, Ltd, diatrlbutora and engineera.
Trade supplied. Opporite Chiugford glation. Tel., Silverton 10.32. 984-525
JOWETT, 1927 , full 4 -seater, blue, grid, 3 new Dunlops, electrical
cquipment, periect, $£ 30$. Below. 1926 (July) full A-seater, hluc, neve, changed hands, numeroua extras, oxceptionally well kept, £25. Helow.
1923 2-seater, dickey starler. complete and in runniag order, $£ 12$.
$1 \times 3$ down, balanco 10 weck.) Below.


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




 ¿ュ18.

Jowetts. Adrews Automobilap for Jowett bargaion -
 for lise of 100 jight cars. of call.

JOWETT. f4 deposit. 39 guincas carb Lato 1928 7hn inne 2 -seater.

 Hampstcad 488i.

Jowetr. W. O.C.f. Suacte Dietribulors and Specialists. Full range ncw
 good ndition, taxcd, is Euineas, Below.

Fitteen Joweths in stock: new and secondhand.


sowETT. 2927 (Junc), A-seatir, retiable condition throu:hout, fully

 stery. original tyres, 65 guinen, bargian. Roberts, Tallor, Allan, jlants.
JOWETT. Smilb-condllioned spells satcty for used.car bugers.
JoWETT, 1926, 4-seater, \&30.
JoWETT, 1929. 4-neator, blue, deposit $£ 15$, balanco $\mathcal{R} 50$.






Jow ETt, 19297 ha short rhasifa salonn belge, 270 IT. and A. Motora,


JOWETTS, under £100. Sce pago 22.
974-10a
 1925 (July) 1 'hp 4 -scater, maroon, specdometer, clock, bumpera, armehair beath, good esres. £28. Helow.
Smith and IIUnter, Led, 407 Edgware Rd Ambasador 1011. Eren-
inga 8 , Salurday 6, Sundey 101 .
1EA-FRANCIS, Brooklands ports 4-seater, 12-50, twin ererburelter,

LEA.FRANCISES, under s100. Sco page $22 . \quad 974-10 \int$
MATHIS, 12 guincas. 1925 7hp 2-sealer, blac, 4 apeds, atarter, practically unworn tyrea running order, faxcd;

M.C. Tho Central Motor Institute, Finchley Rd. IIampstead, N.W.J, wholeale and retall distrilutars for North-west fobdon and North Ilertiordshire. Special tuning and service by experis A selection of
"THE PETROL ENGINE." All about the petrol engine in motorcycles, cars, motor boats,

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


M.G. Midget. 1931 2-senter, nety, miregisecred, latest-type winga, M.C. Miclget.
makers full guananteo, alightely shop-soiled.
\&159. Delow.
M.C. Midget. 19312 -scater, black and red, numeroun extra atments,

M.C. Midgct, 19308 hn sports 2 -scaler, red, particularly Mmart and

M.G. Mdgetl!! 1930 snorts, latest ribbed drums, dash, etc., fnimhnd

 M.G. Midget. Carlton Garagc. 1929, really tast, 93 gulneas: terma, cxchanges. 79 Carloon Vale, Kilbura. Open Sunday mornings. $974-401$

M.C. 1931 Midget, mileage 3,000 , choice of 3, Ircm $£ 135$
M.G., 1930, latest type, big surmp. small milenge, x 115.
M.C., 1930, Midgct, sportsman's coupe, unscratched, e150: largest slock of sporls cars in Cirent Britain. Bartloth, 27a Pembridso Villas.
Nolkng lill Gale. M.C. sports. Cooke's Motors olfer: 1931 2.seater, red. in exeallent

 ak lirand new, execptionally aleractive car, e175. Exchanges, deferred.
M.C. Midgel, 1930. large sump small milezge, $\frac{\text { f115: motorcyclea In }}{\text { mart, delerred lerms Droadway Motory, } 19}$ Woodstock St. Oxlord
 M.C. Miripet. 1931 2-seater, regialered but not delivered, irand new.

 M.C. 1930 Midset sports, red. milcage 4-5,000. Yuite spollesa and Ldeware Rd. 274.200 M c. Midget, 1930 coupe, mileage 8,ono, pertert throughont, taxed Yrar, e155. Jarvis and Sons. Lid.a Vicioria Crosconh Wimhlodan.
M.C. Midpet. $x 12$ deposit: 110 gulnens eash. 1930 super-sparts 2


M.G. Midget. Sce tho Naylor and Root bargaine on page 20. 974-151 M C. Midget. 289 , 1929, 2-seater, very mart and exceptionally fant: exchnnges, doferred. Empire Motors, 506 11.gh Rd., Chiswick. Phono
0303.
M.C. Midget, 1930 (May), sports bls sump, ribbed drums, as new ono M.C. Midget, 1930 (May, sports big sump, ribbed drums, as new ano
owner, 125 gulacan. Murphy, 17 Shoen Lane, Mortlake. 3303 irich-
mond.

MORGAN. Dearts of Kíngaton, Morgan distributors and specialiats. New and kuaranted scconci-hand Morghas nlways in stock. Ifberal exchange


MORGAN Service Depot, Ofrcial appolnted repairers for the Morgan Motor Co for Iondon. Full rango of apare carriect. Nuw and second-


MONCAN. Dargain. Colmore olfer 1931 super-sports $10-40$ J A.P. overhead valve, waler-conled engine, dew lype molel M chassis. colour Hluo and beigc, unregistered, used only for fow trial runs, 2120 you Eavo $£ 25$ and get a belter can Eing paymenta from s 20 down, balance 12, 15 or 18 months. Colmore Depot, 31 Colmore Row, Birming-

MORGAN, 1929 super-sports 10.40 o.h.v. J. A.P., beautital condition, black, red chassia rid wings, apecdometer, clock, geared atecring, fast acceleration, hood, Eeveral cxtras, taxed year, 273.419 Mancbester
lid., Elackrod, Chorley.群.

MORGAN, late 1928 Aero. racing J. A.P., just overhauled ind re painted dual-tone finish, high frequency horn, specdometer. chromitumplated in absolutely super condilion and one of the pretticst Morgans no the road $£ 60$; erchangea or deferr
5 Putacy Bridge Rd. Putney 2728 .

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

MORGAN Specialiats. Protect yoursclt with a Smenths writton guarnnteo: exchanges, deterred terma orer 24 montha. Magnificent
atock; few examples below.

Epecial Family model, $1931,10.40 \mathrm{hp}$ o.h. $\quad$ racing J.A.R., w.e., M-typo chassis, dynamo lighting, atarter, apecially filed dashboard, one owner, $\boldsymbol{2 1 5 0}$ (Highbury), \&89. Kirk agid Co. Below.
Gupor-sports Aero, $1929,10-40 h n$ o.h. F. racing J.A.P., T.e., original Llue cellulose finish: very last and ateractivo aporting bus (PaddingLoni. Acro, 1929, 10-40hn o.h rimaring J.A.P. Aare mings, exceptionally mars black and red rinish (Paddingion), ع65. Kixk. Below
Aero, 1929, o.h.r., w-c, full dash rquipment, fw.b., new rear romperitinar eyre, super condition, tax pad (Paddington), 862 10s. Kırk.

Aero, 1928, Blıp J.A.P., w.-c., all equipment, including dsnamo lighting. hood, clc., flare wings, good lyres and appearanco (Paddington) Do luxe 19,30 2-scater, J A.P. engina, dynamo ligheing. horn, apecto-
meter, 0.9 . tyres, f.w.b, tax paid December (Paddington), \&48. Kirk.
Welow,
 lubrication, clectric horn, practically new tyres, smart and attractivo
(1fighbury), : 42 . Kirk. Below.

Special acen. 8-10hp o.h Fi: w.c., specially brith super-sports.tppe borly.
 Do luxe, 1929 , 8hp J.A.r. 2 -scater, fynamo lighting. all-weather equip-
ment, rinst carcully uscd, tax paid (Paddington), EJ7. Kark. Below.

Family, 1926 8hp J.A.P. w.e., dynamo lightlag. clock, sperdnmeter, f29 10 s. 150 nither cars $22-49$ Pracdehfinish, bargain (Paddington) 6049 and 6892 : and 28-30-32 IVIghbury Corner. N. 5 . Phone, North

MOFGAN, 1924 do luze, Bhn JA.F., Lucas dynamo, side screens,
MORCAN, 1928 Acro J.A.P.i.w.b. balloon tyren, hood, chrome nickel perlect, onc owner, taxed to 1932, s58. Delow.
MORCAN de luxe Acro. $1931,10-40$ o.h.v. JA.P.s cream and green the very last word in improvements. $2 \%$-in. tube with improved bevel \& 116 10a: les me quote you for your old car; itan allow you the


MORGAN. Naylor and Root, Lid.,
MORGAN apecialists.
Largest selection of used models In England. Pusitively lowest pricea.
Easjeat of Easy Terma over 18 months.
Take advantage of these afounding reductions of more than $£ 10$ on (oulel.
£105. 1931 super-sports " M" chassis, usual cquipment, faished dark reon; choice ol two
£92. 1930 super-sports " M " chassis, epecdometer, hood, electric horn etc.: choice of thres; alao two with atarters and taxed.
E82. is2g super.fports o.h.v. J.A.P., escle wings, speedometer, eleciric horn, hood, very smari car: choice two.
£79. 1930 Aero o.h.v. J.A.P. " M " chassls, usual equipmont, abso£72. 1929 Acro oh $\boldsymbol{h}$. J. A.P.. starter, cycle wings, bumpera, hood, new yru. many usululextme.

ع62. 1928 Aero o.h.w. J. A.P., specdometer, f.w.b., hood, electric born. cared siccring, red and cream
269. $193 n$ Acro A.v. J.F., cscle wings. V screen, hood speedometer,

£54. 1928 Acro s.f. J.A.P., almost new tyres, \&.w.b., hood, electric horn, pneumatic seals, very smarl, laxed.
£39. 1927 Aero 8hp, f.w., dynamo lighting, hood, cyclo wings, spectometcr. zery smart, black and green.
 idescrecns, speedometer, electric horn, as new.
 £52. 1930 De Luxe, a.c. J.AP, "M "" cbasois, starter, side acreons, good tyres, speedometer, etc., chark blue.
Compare theec prices with othere and you will immediately realize what we mean by reductiona. Be sure you call today ur write for our lish.
Naylor ant Root, Ltd., $248-250$ Lavender Hill, Clapham Junction,
S.W.12. Phone, Batterses $6187-9$.

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

Morgan. Maskell for Margann. Sole London agents, south of tho


MORGAN, FO.C.IT. 1928 suncr.sports Acro, primrollo and preen, Eleven Hunded oh.r. racing J.A.P., I. W.b. dynamo, Bosch, Bonnik.



 MORGANS:11 (Four.) Family 4-scaters, G. P. 2-seaters. water-cooled, worth Molor Exchange, Ebner St., Wandsworlh. (Town Stationit 974 -317
MORGAN, 1929 de luyo 2 -seater, rery imall mileace, $f$ w.b., starter, in exceptionally niee condition throughout, price 39 guineas, a very
 brouk 2323.

MORGANS. Homaces have for disposal the following guarantecd
1928 de luxe, 8bp J.A.P., dynamo, geared stecring, good tyres, taxed,
1927 Acro, घ.v. J.A.P., f.w.b., dynamo, etc., taxed for gear, £45. Below. 1927 Family, 9 un J.A. ${ }^{1}$, , dynamo, apecdomeler, sido sereens, I.w.b., mice order, tisy 10l. Below.
1925 Aero, 10 bp o.h.s. Bleckburne, 532 108. Below.
1925 Grand Prix, 10 hp . ©.c. Hlackburnc, dynamo lishting, specdometer, dash lamp, bumper, many exiras, Aero wings, $£ 2910$ e.
Deferred terms arranged.
Momaces. the Ofirizl Morgan Service Depot. 243-7 Lower Clapton Rd. 974.370
E5. Tciephone. Clissold 9616-7.

MORGAN. 100 cara in stock. Liat frec. Exchangea. Rowland Smith. s 10 deposit: 105 naincas cash. 1931 super-sports, specially tuned racing o.b.7. J A. ${ }^{2}$, black and red, cycle-type wings, utraight-through exhausts,
hood, practically unworn tyres, reduced stcering, carefully used, very hood, practically unworn lyres, reduced stecring, carefuly used, very
C4 deposit: 42 Euineas cash. 1926 Aero 10hp racing o.h.v. Blackburne, dyamo lichting. A.w.b, straight-through exhausts, foot acceleraoxceptinal condition; free tax, frea insurance to cash huyors. Below.
$\{3$ deposit; 32 guincas cash. 1925 Acre, 8bp o.h.v. Anzani, red, dyuamo lighting straight-through exhaust, hood, speedometer, carefully Below.

E7 deposit ; 75 suineas cash. Lato 1929 super-mporta specially tuned racing o.h.v. J.A.P., black and red, cycle-type wings, straight through exhausk, reduced sicering, carcfulls uacd, exceptional condition; freo tax, free insaranco to cosb buyers. Below
© 7 deposir; 69 guineas cash. 1930 Acro, Elcren Jlundred o.b.v. racing J.A.P., bluc,. b. dynamo lighting, eteering. bood, carelully used,
C6 deposit: 59 goineas cash. 1929 Aero. Bhp o.h.v., bluc, I.w.b., dynamo lighting, redoced steering, hood, straight-through exhaustis. rery excep-

E3 deposit: 32 guinean carh. Late 1926 Family, $8 h p$ w.e. J.A.P., dynamo lighting practically unworn syres, foot accelcrator, electric horn,
exceptional condition; frec tax, freo insurance to dash buycrs. Helow.
Rowland Smith. 78.81 High St., Hampstead. Open all weckdays, inclucing Saturdays, $9-8 ;$ Sundass 9.1. Ono minuto Hampstear Tube,
Phono Hampatead 4881.

MORGAN, 1930 Super porta, M. chassis repainted red new chain, 3 now Fort Danlops, taxed, indistingaiahable from new, 296. NetherAcales, Mattram Rd., Stalybridge. 976-g169

MORCANS. Ang reasonable offer accepted to clear quickly. Two do
 runnins: would sell separawly. 19 Holmdenc Avenuc, Herne Ifill.
Brixing 0384 .
mongan, super-sports, $1929,10-40$ o.h.p. racing J.A.P., \&.w.b., starter,
geared stcering. lexed year. 287 10z. Below.

 Richuond IRd., Nr. High 8t., Putney.

MORGAN. 1030 (Mav) family model. J.A.P., atarter, right sidescreens, speedometer. mileare 5.000 absolutoly, new. fared year, insuranca
forloded, $£ 67$. Bmith and Jlunter, Lid., 407 Eigwaro Id. Ambasador
1011 .

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


MORRIS Minor. ©65!! 1929 fabric saloon, colour blac, caxed, very small mileage, in really exiellent condition throughout, really worth


MORR1S Minor \&80. 1930, coachbuilt sunshine naloon, complete equip-
MORRIS Minor, C60, 1929 labric saloon, complete equipments numerous extras, excoptionally kond condition; exchanges, deferred. 86
Acro Lane, Erixton. Phono 3401.
$974-\mathrm{g} 188$

MORRIS Minor, 1930, fabric saloon, in really first-elase order through-
 MORRIS Minor $19308 h p$ fabric saloon, smart and fenerally netrac-
tive, $\{65$. Newnhams, 237 Kammerimath lid, W6. Reveide 4646 . Murfis Minor Carlton Garage. 1929 saloon, taxerl, 69 gnineas: terms, exchanges. 79 Carltcn Vale, Kilburn. Open Sudday morninga,

 MORRIS Minor.
chromium, Traplex, exceptionally well-kept car. Jaynarda, 29 chromium, Traplex, exceptionally well-kegt car. Maynarda, 241 111,h
Red, Wood Grech. MORRIS Minnr, 19308 bp fabric asloon, excellent condition, ons nwige,
 MORRIS Minor. Cooke*s Motors offer 19307 8hp conchbuilt saloonk,
 MORRIS Minor, $£ 97$ 10s. 1931 fabric salood, negligible milcage,
laxed, spotless conation: exchatabe, termas. djulow. MORRIS Minor, $£ 59$ 10s. 1929 tabric saloon, small mileage, excellent condrion iexchange, terms. Ward and Co., 5 Upper Richmond tid kast
Putney 2818.

MORRIS Minor $£ 105!11$ Saloon, 1931 model, very clean, small mile age, in excellent condrion throughout

MOスRIS Minor, s67 10s.l!t Saloon, 1929, in excellent mechanieat condition, very clean, taxed to end of yrar. Bell Motor Mart, Lid Malh
Rd., Cipponham, near Slongh. Phone, Burabam 149. 974.358

MORRIS Minor. 1930 (May) coachbuilt aunshinc aaloon, small mileage, 1930 tabric saloon. bluc, mileage aboue 10,000 , periece coachwork,
tyres athll A.1, tayed year, eg3. Helow.
 Smith and Jlunter, Ltd, 407 Falgwara Rd. Ambassador 1011 . Fiven-
imf's 8, Saturday 6, Sunday 10.1.

MORRIS Minore. Andrew Automobllea for Moria Minor bargains:MORAIS Minor Lourcre and paloons, $f 56$ to $£ 68$, ready for the road, taxed, insured and guarantecj 3 monthin, simplest hire purchase achemd in existebce. Write for lizt of 100 Hght cars, or cal
Andrewi Autnmobiles, 37 Sheen Lanc, Mortlake (Station). 'Phnne,
Richmond 074.277

## 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."

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


MORRIS Minor. Sco tho Naylor and Root bargains on pago 974 -150
MORAIS Minar, 1929, Baloon, ona owacr, aica conditlon throughout, unique deferrad terms, \&60. $516-522$ Streatbam Iligh Rd., 8.W.16.
'Phone, Pollards 444.
$974-119$

MORFIS Minor. s 7 deposit: 69 guincas cash. 1930 coachbuilt asloon, brown, sunghino roal, very good condition; freo tax. Iree insuranco to cash buyers: 100 cars in stock: list free; exchonges Upen all weckdayb,
inciuding Saturdays. $9-8$ : Sundays 9-1. Rowland Smith. 78-81 1Iigh inciuding Saturdays. 9-8: Sundays 9-1. Rowland Smith, 78.81 Migh
Et, Hamptead. One minula Hampsted Tube. Pbone, Hamptead
48Bl.

PEUGEOT 7. 1926 all-weathar 2-seator and dickny, starter and full cquiment, very enonomical, fl8. Central Auto Service, 15-17 Putney

RENAULT 9. Andrews Automobiles for Renault bargains:-
RENAULT $9, ~ £ 14$ ta, s36. ready for the road, eaxed, insured and

 RENAULT. Sco the Ninylor and Root bargains on pago 20. 974-152 RENAULTS que following cars, together with sereral others, carry our
 1931125 Monasix ealona do Juxe, English bady, leather upholstory. Tecalemit automatic lubrication, carrier, tax paid yoar, last word in
refuement, cost $\& 280$, accept $£ 170$. 193112.5 Monnsix ealoon luxe, shon-soiled, unregiatered, s159. 1931 speed model. $75 \mathrm{~m} . \mathrm{ph} ., 33 \mathrm{~m} . \mathrm{p}$. gallon, special, fel40.
1929.3012 .5 Monasix saloon do luxe, coacbbuilt, bumpers, etc.,
s 100 . 1928 9-15 saloon do luxc, conchbuilt, $\times 55$.

RENAULT, $1926,94 p .4$-seater, recently repainted blue, very good
cogdition, 1928 Renaule 9 hp 4 -floor fabric raloan, very mmall mileage, s ss


PENAULTS, under f100. Sco pago 22.
974-110
RHODE, s22 10 s., 1927 somi-sports 4 scater, sound condition, barGau. Ward and Co.", 5 Upper Richmond Rd. East L'utney 281月. 974 -378 RHODE, suner pports, stramlined 11 hp 2 -scater, outside exhaust, long
tail, 2,20 , burgain. Denmans, $132-3$ Loag $\Delta c r c$. W.C. Upen weet.fn-ls,

RiLEY 9. 1931, Plum acriea Momndo anoshine saloon, run 350 miles


R1LEY specialiss. Write for llst of guaranteed uacd cars to sussex
1)istributora, Lewes Notors Lewes. RILEY 9, 1928 2-scalcr, dickey, excellent enndition, e75, privately
owned, can bo viewed 58 Footscrny Rd., Eltham. $8 . E .5$.
$974-229$

 RILEY 9. Stelo Grimus. 1930 de luxe saloon,
Camberwell
Grcena
S.E.5. Roduey
2201.

RILEY 1930 9hp, twin carburcter, sports 4 -seater, $£ 165$.
RILEY, 1928 (latc), twin carburetter, sports 4-seatcr, £110; orchanges and delerred. Bartlett, 27a Pembridge Villas. Notting Hill Gale. 974.332
RILEY, 9hp, 1931 standard snloon, new, ohop-soiled only, e260.
1I. R. Moore, Lid., Bistop's Stortford. 'Rhono 132 .


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


#### Abstract

 12,700, black red opholatery and whecla, Giceptional condition, el38. 

Miley. 1930 Monaco saloon. blne, red leatber, mileage 9.000 , as ncto throughouh taxed year, \&175. Bel.jw. 1929 (May) Monaco hlue-cream whecls, Triplex throughout, very 1928 (June) Monace, central chango, maroon, mileage 19,000, one owner only, vory attisactive, $\mathcal{L} 105$. Below. 


RILEY Monaco saloon. 1929. Triplek, maroan, beautifal condition
throldgout, fil5.
 RILEY, \&139 10s.i 1929 MK4 2-scater, spollens condition thronghout, orchanke, terms. Ward and Co.s 5 Uppor Richmond Rd. Ezast


RILEY, 1931. Plus model Monaco aunhino saloon, bleck-brown, cream


RILEY. Smith-conditioned spells astety for used-car buyera.
 HILEY 91930 de luxe alloon, blzk and zed, practically new. oniy dona 8.000 miles: deposit $\mathbf{£ 4 0}$, balaaco $£ 155$.
RILEY, 1930 Monaco saloon, red witb black wlogs and ralances, red upholstery to match
RILEY, 1930 Monaco saloon, black with cream wheels and piplog line PILEY 91930 Monaco aslaon, red with French grey wings and red uptalstery to match.


RILEYS. 400 car list post free. 1924 to 1931 new and ased cara 10 etock, Salnons, coupes, aports, landaulets, touring. 2 seaters. etc. Open
till 9.30 p.m., weck-ends iucluded. Exchangen and terms. Dislance no oblect. ('ha Northern Motor Olympia) Bamber's, near Birkdala Station. Southont. Phone, Birkdale 66161 . |Bianch Showrooms: 4 Guildlord SL., Leeda; 16 Cambridge Si., Sheffeld.)

RILEY 9, 1930 Monaco aaloon, black and red, as ncw, s175. Below.
RILEY g 1929 Mark IV Monaco aloon, taxed year, Bidex lamps,
many extrag exceptional condition, fl45. Below. Paul and Co., 114 Ge . Portland St. Muscum 4117 ,

974-177
RILEY 9. Mesp orer el10 securcsill Special 1929 Mark IV Monaco maloon, numerotis exaras include 2 apare wheels, bumpera, big bead-

ROVER, $1931 \quad 10.25$ Regal sun aloon, bumpers, safely glasa, cont


ROVER 101931 4-door saloon, one owner, very carelully used for moderate milerge, comprehensivo guarantoe, unique delerred termig,
P149. $516-522$ Streatham High Rd., S.W.16. Phone, Pollards 4444 .

ROVER 9. Sale price $f 1251!1 \quad 1930$ 10hp aportsmans" coape, fitted With sunshing rool extremely sood condition throughout, bargsid. Station). S.W.6. Tel., Mutney 7611 .

ROVER 9, firt regiacered November, 1927 4.leater, in excellent condifion throughout, taxes, 235 . E.S. Motorn, 325 High Rd., Chiswick,
W.4. Chiswick 2246 .

ROVER 9 aloon. Woymenn fabric body, brown. £45; also Rover 9-20.


ROVER, $19259-20$ sports 2 -seater, mepanted bloc, new baltery, tyrea
and condition good, tased. s22. Paddington 2054.

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



192910.25 sportaman's conpe, brown, wire whecls, 2 horns, same owner 192910.25 sportamans conpe, brown, wire whe


ROVER 10. 1930 suashine saloon, Weymann body: anotber similar,


HOVER, 1929 10hp sunshine saloon, in spotleas condition, leather


ROVER 101929 Rivicra sunshine saloon, one owner, serapolously kent. comprehensive written guarantee puique deferred terms. f95.
$516-522$ Streatham figh Rd, S.W.16. Pbone, Pollards $4444.974-120$

GOVER. 1926 (lalel sporta 2 -mater, exceptional condition throughout, Laxed to the end of the Year, f35; exchanges, delerred Hasking, 155 Slation). Pa,k 5541 . Keusington, W. 10 (aujoining the Mctropolitan

ROVER. See the Naylor and Root Largains on page 20.
974-146
ROVER 9s. Andrews Aatomobiles for Rover bargains:-
ROVER Gs. $\mathbf{f 1 5}$ to $\mathbf{f 6 8}$, rensy for the road, taxed, insured and fiveranteed 3 monehs. simplest hire purchase sebeuse in existence. Write Antor A


ROVER 1019304 -door saloon, sun roof, taxed, one owner, condition Paul Sawyer and Co., 130 Gt. Portland St. Muscum 1925. 974-164

ROVER. 9 bp , $\mathbf{f 1 5}$. Late 1925 de luxe, 2 -reater and double dickes, 2 .oors, excelicnt condition thronghout, lighting, alart'ng and usual equipanent. the paintwork and upholstery fleatherl perfect. a rery


ROVER 10, 1930 sportsman's conpe, sun rool, black and red, mileago 3,000 only, act new, s145. Below.
Paul and Co., 114 Ge. Portland St. Mazeum 4117. 974-178
ROVERS, znder floo. Sec rege 22.
974-111

 gtreamlined body, cylle wings, very altractive, \&42. Smith, 407 Fdg-
tare Rd.

SALMSONS. Varlum Co. specialize in the speedy and economical 9.5 B.lmon. $3540 \mathrm{~m} . \mathrm{p}$ g., insorance from \&1 Oc Gd.; A.A. or R.A.C. examination; delerred; exchanges. Open Eaturdays.
£25. 1926 model sporta, Grand Prix body, Vee screen, smart.
19 gasncaf. 1926 sports skilf, Vec screens, wlper, giarter, fast, emart.
20 guineas. 1926 o.h.v. 4 -seater, taxed, gew hood, f.w.b., balloons.
25 guineas. 1926 . f.w.b., sports, apecial low long-tail body. pucumatic apholstery, really hadiworne car.

39 gnineas. Twin camshaft conpe de luxe. dickey, divided wlndows, 32 guineas. 1927 model sports, f.w.b., balloons, Vee screeng, taxed


sALmsons urgently warited. Vadum Co., 352 Iigh Rd., Willesden
Gren, N.W. 10 . Willesrien 2469 .
sARMIONS, under 2100 . Sec page 22.
974-112

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

SALMSON 1925 sports 2-seatcr, Gmad Prix tyuc body, raked stecring, outaide hand brake fax paid. in exceptionalls good condition throngh-

SALMSON, 1926 sports 2-seater, marnon, very fint, \& 35 . II. and A. Mo:ors, $\overline{9} 9$ Church Rd., Uppe Norwood. Livingstone 3122 Open
Sunday, 11.1 p.m.

SCMNEIDER, 1928 sports 4 -seater, lohp, cutaway driver's airle borly,
 TH. SCHNEIDER, 1927 10-30 4-door Iabric saloon, £65; terms, ex-
changes. Page, 199b Upper Richmond Rd., near High St, Pumecy
 SINGER, 1950 Jumar tourer, very fine condition, ane owner, A. A.


SINGER Junior saluons and tourers, 1930 madels, from $x 40$;


SINGER, £90!11 Junior coachbuilt saloon, duo bluc, late 1930 morlel, exceptionally good condition. Delow.
SINGER, $£ 35!!!1928$ 8hp 2 seater, exeellent condition throwimont.

 SINGER, \&135, 1931 Junior coachbailt 4 -door sunshino salwor, hlark and cram, total inilease 2,0C0, bumpers, chramum-plated fitlinges rear powis, $10-24$ South St., Reading. 'Phone 2600 .

SINGER Junior 4-seater, 1927, new tyres, recently overhauled, Laxed and insured, many evtraq. f. 5 , or near oifer. Millmarten, 13nl1 Morr
Lanc, Waitham Cross. Enfield 2718 .
$974-x 764$

SINGER Junior Stevie Griftiths, 1930-31 saloon, neglizible milease, acgy. Ahbey House, Victoria St. (facing Westmingler Abbev). Vir,
toria 0467 .
$974-406$

SINGER Junior, Stecle Grimths, 1930 Lourer, tax paid, s79. Abbey
 SINGER Junjor 1931 coachbuilt 4 -door sanshine alonn rear petrol lank, etc., excellent condition throughout, ßrst regishered March, mile-


SINGER Jonior 1930 sports man coupe, been very kell maintained, | Goad yres, fully equipped, \&85. Fulkland Park Garage, 179 South |
| :--- |
| Narwood IIll, South Norwood. Livingstono 1000 . |
| $174-1178$ |

SINGER Junior saloon, 1930 model, taxad yanr, excellent tyrea, very amart condition thronzhout, luggage grid, ctc.; bargain C80 Falkland Fark Garage, 179 South Norwood Ifili, South Norwood. Livingstntre
1000.
$\mathbf{9 7 4 - 1 1 7 9}$

SINGER, £35, exch


SINGER, 255. oxchanges! 11 1929-30 light delivery van one owner new tyres, excellent conditinn throughout and laxed for the year, de
liver anywhere. Chidey. 579 b Migh Rd., Tottenham. 'Phone 2920 .

SINGER g. 1928 -seater, fw.b.s and fullest enuipment, splenclicl con ditinn and taxed till January, e39; terms, exchanges. Central Aut Open Sundaya. 974 -g185

SINGER 10, $1926-7$ de luxe 2 -seater end double dickey, lw b, balloon tyres. all-wenther equipment. small milcage, pertect condition and alpearance, $\mathcal{L} 22$ 10s., or exchange. 3393 Goldhawt Rd., W. 6 River
gide 5113 -1172

SINGER Junior, f132 10s. sun saloon, black and red, new, unused; exchange, lerms. Below.

SINGER Junior, $£ 102108$., olfer 1931 sun saloon, black and cream, apolles thrcukhoul. brraan: exrtange, cerms. Ward and Co., 5 Mnier
Rictmond Rd. East Putney 2818.



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

SINGEA. 1930 多,



SINGER 1928 8hp tource, veri low milenge, appearance as new. f50 (1925), Lid.. 28 (2ucen's Rd. Baysmater, W.2. Park 7766. 974-314

SINGER, brand-new 1931 iOhn snloon. list nrice f210. used for few


SINGER 10, \&25!'! smarlest touring car oflcred, f.w.b., paint and hood ns new. Denmani, 132-3 Long Acre, W.O. Open week-ends. Tcmile
Bar 9135.07442

SINGER, 100 guineas'H 1931 . Junine coachbuilt sunshine saloon, colour black and green, as new throughout, spare unused, artual mile


SINGERS. Andrews Autemobiles for Singer Janiors and Singer 10s:SINGER Junior $8 \mathrm{hp}, 1928$ and 1929 tourers and saloons, 40 to $\mathbf{f 6 8}$ : Singer ios, sio to \& 30 , ready tor the road. taxed, insured and guaran-
tecd, simplest hire purcbase schemo in existence. List of 100 small cars frec on request.

SINGER Yuninr 1728 . 4 seater, exceptionalls nice condition. 45 guincas;

 SINGER, E15. 10hy, 4 seator lourer, 1924 engine, robared, new pistons fited. gencralis olerhauled, isres nearly now. 27 Soulhbrook Rd. Nur.
bury
974 -g6

SINGEN Junior 1930 enachbnist 4-door saloon, one owner, exeellent


SINGER B 1929 machbmilt 4 floor galoon, reconditioned and in guaran-


SINGER. Sce the Naylor and Root bargains on pago 20.
974-144
SINGER, 1928 (Angust), Bhp, de luxe 4 floor saloon, splendid condithon and appearane. Laxed dear. any trial, \&55. Barley Mow. West
मlorsles. Surres. Phone, Clandon 2 .

SINGER $19 \tilde{1} 1$ Junior funshinc maloon, blaok-cream, mileage 250, shoponlea conclit
 1930 aunshine saloon, new February, milleage small, wire wheels, fell 1929 Junlor coachbuilt 4-door saloon, leather upholstery, dual brown, one change only, A1 coudution, very clean, e70. Delow.
Smith and Ifunter Lid., 407 Edgwaro Rd. Ambassador 1011. Eren-
inga 8 , Saturdaly 6 , Sunday $10-1$.
SINGER Junior 8 hp 4 -seater, 1927\%, good hood, halloons, smart ap-


SINGER. Nomphatas always base no excellent seifection of used cars available. Full list, on request.
1931 8hp coachbuitt sliding roof saloon, dual colours, Lowutlal
1929 anp coachboile saloon, black with red w.w., farticularly smart
and
gound 65 . 1928 8hn coachbuilt salood, dual blue, smart littie car and very good 1928 8hp 4-scater, maroon, smart and ready for season's running, $\boldsymbol{e} 35$. condition, e42. ceachbuilt saloon, maroon, good appearance and generai 1926 10-26 4 -scater, blue, f.w.b., good tyres, ctc., genuine bargain,
f18. Newnham IYousc, 237 Hammersmith Rd., London, W.6. Riv. 4646.
SINGER, late 19.30 . Tuniss aports, pefect condition, ono owner-driver,


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

 SINGER Junlor. $£ 7$ deposit: 75 guineas cash. Tate 1930, toarcr, 2-tone blue, one owner, very small milcage, carefully used. practically



SINGER. $\boldsymbol{2 7}$ accepted for ouick gale. 19232 -seater, dickey, starter,


SINGER, 1931 Jenfor aportsman'n coupe, very smartly finished in black with green wire whols, arey pily carpets, and upholstery, buile, Rlarantce, quito an new. cout $x 155$ accept $£ 130$ Whitby's, Singer

SINGE日 1930 Junior saloon, aliding roof, chromlum plating, meqal


SINGER Junlor 1929 4-door coachbuilt saloon, many extras, nice ad-


## SINGER.

Save your time and money. Consult a specialist on sour Singer probleme SINGER eales, service, spares. Murphy, 17 Shecn Lane, Morllake. 3303 Richniond

SINGER, £ $15!1!$ 10hp tourar, excellent tyrcs, one owner, deriect throughout, taxed. K.J. Mowrs, Bromley. Rareuskourna | $\mathbf{3} 456-7$ |
| ---: | :--- |
| 976.53 |

SINGERS, under £100. Sco page 22.
974-113

STANDARD, $814,1924,11.4 \mathrm{hp}, 4$-scater de Inxe, complete equipment, bumpers, taxed, exceptional car. 86 Acre Lanc, Brixton. Phoua 974 -191
3401 .

STANDARD 9. 1930 Teignmouth long sunshinc saloon, one owner,


STANDARD 1924 11.4 2-seater, nood tyres, lully equipped, oxceptional ordcr. $\mathcal{E 1 2} 10 \mathrm{~s}$. Ward and Co., S Upper Richmond lid. East lutney
2.818.

STANDARD 9. Stsele Griffiths, 1931 de luxa 4-speed saloon, almost



STANDARD. Sea tho Naylor and Root Largains on page 20. 974-147

STANDARD I931 Big 9 Swallow saloon, all cream, light brown wings, 6,700 miles only, 4 speeds, wire wheels, taxed year, absolutely as vew


STANDARD, $11.4,19244$ seater, starter and full equipment, sound and relhable, ready tor use, se8. Central Auto Service, $15-17$ Putney

STANDARD 9, 1939 Teignmouth long aunghine saloon, nice mechanically, appearanca and tyres as new. fully equipped. Lnique deferred terms,
ع92. $516-522$ Sireatham High Rd., S.W.i6. Phone, Pollards 4.44 .4 ,

STANDARDS. 400 car list post free, 1924 to 1931 new and used capa in stock, galoons, coupes, sporis, landaulets, touring, 2-seaters. etc. no object. The Northern Motor Olympia. Bambers, year Birkdale Station, Southpori: 'Phone, Birkdalo 66161. Branch showrooms,
Guildford St., Lecds: 16 Cambridgo St., Sheffeld.
974-131

STANDARD 91929 Teignmouth labrlc saloon, sliding roof, black and crcam, \&100. Below.
STANDARD 1929 9lp Fulham saloon, brnwn. one nwner only, taxed in
December, $\mathbf{~} 85$. Leeds and Oxleg. Paddington 3843 . $974-364$

GTANDAND 1931 Big 9 coachbullt saloon, demonstration onls, taxed. \&190. Brulon Garazes, Ltd., 4 Bienheim St., New Bond St.. W.1.

STANDARD 10, 1930, £ 162 10s., Swallow saloon, bumpers. spotr light, extras, mileage negligible, dofinitely as new throughout; ex-
change terms. Ward and Co., 5 Upper Richmond Rd. East Putnes
2818.

## LIGHT CARS $\begin{aligned} & \text { SECOND-HAND } \\ & \text { AND CYCLE }\end{aligned}$ (continued).



STANDARDS, unier floo. Sec parc $22 . \quad 974$-114
STANDARD. Smith conditioned apells safcty for nacd-car buyers
STANDAFD YSwallow 1930 saloon, practically new, maroon and cream. rery last: denosil c40, balance £155

STANDARD 91929 special galoon. sliding roof, salety glase, black and creant, exceptionally good condition, $\kappa 25$; balance $£ 85$.
STANDARD, 19304 cylinder, bigh-compression engine, 3 speeds forward and reverse, delachable and incerchangeabla wirc whecls and sparc,
 eycletyse wings and disappearing hood; colour meheme pium red with cream whels and line: upholstery in match. $\Lambda$ very attractive car, exceptionally last. $65 \mathrm{~m} . \mathrm{p} . \mathrm{H}$. Deposit $\mathbf{2} 35$, balance $\mathbf{~ \& 1 5 0 .}$


STANDARD, 1931, 9hD raloon, chromium-platci, very small milease,


STANDARD. Newnhams always hare an excelient eclection of uscd care avalable. Full list on request.
1951 Big Nine 2 -seater and dickey, bluc, mileago under 500, $£ 175$.
1931 Big Ninc aliding-rool saloon, dual colours, exceptional valuc, $£ 155$.
1930
owner, Teignmouth slidingrool galoon, black with cream w.w., one
1929 9hp Tcignmouth slidiagrool saloon, maroon with cleam w.w., exceptional order

1928 Shp opening rool saloon, bluc, nice orler, £69.
Newabam Ilouse, 237 Mammersmilb Rd., London, W.6. Riv. 4646.226
STANDARD, brand new 1931 Blg Nino saloon, sliding rool, wire whecls at 79 guineas listed 2215 , plus s2 10 s. delivery), unregisCu. 352 High Rd, Willesden Green, N.W.IO. Willesden 2469. $974-220$

STANDARD 1931 Big Nine coschbuilt kunshinc galoon, black-cream, thop-soiled only, sull coarantec, f180. Below

1930 (March) Tcignmouth saloon, black-white line, first-class through out, usual guarantec, sl23. Below.
1929 (July) Teignmouth saloon, black-red, $100 \%$ mechanically, sound tyes, same owner sinee new, very attractive, \&98. Below.

STANDARD 9. 1929 Teignmorrth salnon, sliding rool, mechanical condrton. perlect. $\mathbf{f} 3710$ s. molorcycle- iri part: deferred Lerms. Broad-974-292
STANDARD 9.1928 model 4 -door fabric salcong. splendid condition hroughout, licensed. sefo: exchanges, terme. Norrington's, 245 Gold-

STANDARD, s175!1! 1931 big 9 special saloon, black and red. falety elass throughout, bumpera, mileage 3000 onlt. abselvicly perfeet and indistioguishable from: new, taxed December. Below.

E 117 10s. 1930 Standayd 9 Teignmouth saloon, blue, bumpery, liding rool, as new. K.J. Motors, bromley. Ravensbourne 976.536
SWIFT, 1928 10hp Jabric Galoon, black with maroon winge, leather, e65. if. and A. Notore, 69 Church Rd., Upper Norwood. Livingstonc
3124. (Open Sunday 11-1 p.m.)
$975-808$

SWIFT. 193010 hp un saloon. 4 specis, excenent condition, bargain, £125; exchances. delerred. Smith Auto Co., Lid., 145 London Ret.,
Croydon. Croydon $2182-1688$.
$974-295$

SWIFT, e35, exchanges!ll $1926-7$ 20hp de lure, 4-8cater, leather urhointery. 1.w.h., new tyres, electric dipping ight thoroughy overtion. Chides, 5796 High Rd., Tottenham. 'Phone 2920. 974-323
sWIFT. Cooke's Motors offer 1929 1Ohn Flectwing gporls galoon, cost

\&WIFT. Sce the Naylor and Root bargains on page 20.
374149


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

SWIFT C4. 9.Ahn 2-8cater anti dickey. dynamo lightigg and starter


SWIFT, 1930. 10 hp tabrice 6-light Ealoon, pneumatic upholstery, amall mileage, perfect condition throurhout, $\Sigma 130$ caih or $£ 30$ down and 12


SWIFT. 1931 . Cadet 8hp, conchbuile saloon, colour bluc, sunshine roof,
tank ai rear, bumpers, elc., unscratched. cill
SWIFY. 1931 frinthine saloon, Crusader model, mileage 1,000, bumpers, tank at rear, elust.
SWIs-T. 192910 hp . 4-door sulonn, wire whecls. 4 -spect, leather up-


SWIFT. Ncwnhame alwase have an execllent, selection of wsed cars
available. Few examples below, but fuil lise on fequest. available. Few examples below, but full list on request. 1931 8hp Cadet coachbuilt sliding rool saloon, black and green, hardly
goijed, 810 . -
1931 10hp, Nomad saloon, maroon with creams w.w., moderate mileaga
1930 10hp drop-head coupe, dusl colones, benutilut conclition, $x 128$. 1930 10hy Paladin coachbuilt sliding rool saloon, ruaroon, one uwner,
most attractive, $£ 135$.
 1928 10hp 4 -geater, dual brown, fitced wilh w.w. and several cxtras 1928 10hp ${ }^{4}$ - Eeater,
1926 10hp 4-scater, maroon, fitted l.m.b., starter, ctc., £23.
Newnham Ilousc, 237 Hammersmith Rd, London, W.G Kiverailangin6. 974.227


SWIFT. Andrews Automolijes dor Swilt bargains.
SWIFT 4 -scaters and ealoons, $£ 40$ to $£ 75$, rearly for the roads, taxed, insured and guaranwed 3 monthsi simplest hire-purchane acheme in
exiatence. Write for hist of loo hght cars or call.


SWIFT, 19281 Ohp tabric mioon. blark, with maroon winge, leallier, f63. Is. and A. Motor. 69 Church Rd. Upper Norwood $974-174$

SWIFTS, under $£ 100$. Sce pago 22.
074.115

TALBOT $10-234$ ecater, first registared necember 31st, 1925, very Gcod cordition, Laxed, 220 E.S. Motors, 325 High Rd.. Mhiswick.
W.4. Cbiawick 2246.

TRIUMPH Scorpion, 1931 , 6 -cylinder coachbuite slicling rool saloon.
TRIUMPH 7. 1930. do luxe labric falcon. black and red, soveral ex-


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TRIUMPH, 1929 7hp de luxe 2nonter, wire wheels, exceptionally gnod Landon RJ. Croycion. Croydon 2182-1688. 974-294

TRIUMPH Super 71929 de fuxo saloon, pneumatic upholstcry, bean-


ThiUMPH 1930 Gordon England and de luxe saloon, very small mile-



TRIUMPM, 1951 Super feven 2 sealer do luxe, dual bluc, full equip-



 carno offer a few shing second-hind liargatus:c95!!! 1930 2-eatcr anil double dickey, colour duo bluc, exceptionally
good condition throughout. dill $105!!1930$ de Iuxe Gordon England fabric saloon, carelully drien by f85! 1929 Gordan Tigland de llise saloon. carefully driven by ane


TAIUMPH. 1930 coachbuile de luxe sunshine salnon, one owner, con-


TRIUMPM, si2 deposil 125 guineas cash. 1931 Super Seven a) Juxe fabric saloon, black and red, very carciully used, pracatock. Disal freco bax Irce insuranco to cash buyera. 100 cars in


TRIUMPH, 19297 hos super 7 Gordnn-England fabric saloon, pneumatir, upholstery, 5 new tyret, tax paid, third-party insurance for 5 montha.


TRIUMPH. Tho Y.C.C. olfer 1930 inbric paloon, excellert condlition. Cg9, oxchanges and delerred terms. 404 Euston Rd., N.W.1
2122 .

TRIUMPH $7 \quad 60$ guincas. Exchanges, delerred. 1929 model fiobria


TRIUMPH, 1930, Supor 7 Inbric saloon. leather upbolstery, excellent chureh in brami-nov concintion throughout. 95 guinoma. Bell Mntors

TRIUMPH 7,1930 , tourer de luxe, fine condicion, mechanically sound low mileage , rear wing bumpers, lugage grid, taxed end ycar, e105.
Owner, 14 Devonshire Gdns., Grove Park, W.4. Evenings. $975-\mathrm{g} 174$

TRIUMPH, 1931, super 7 hp 2-seater and dickey, dual grey, beautiful
condition, fllo. 1930 super 7 hp coachbuilt saloon, black and maroon. small milcage by
one owner. f108. Newnham Mouse, 237 Hammersmith Rd., London, W.6. Riv. $4646 .{ }^{4} 4228$
TRIUMPM 7,1930 black fabric saloon, taxed year, cion 103 terms, exchanges. Pago, 199b Upper Richmond Rd., near High St., Putney.
TRIUMPH,
throughout, taxed, Gnat sports
2-seater, as new and unblemishod
9745 Emith
407 Edgare Rd,
TRIUMPH 7,1930 , maroon, de luxe, perfoct condition and taxed year,
\&98, O1ympin singhon, W, 14, Motnr maroon, No. Hammersmith Rd, opposite Olympia, Ken-

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

 (continued).}

33

TRIUMPH super 7 2-acater, 1930, low mileage, taxed, one owner, choice of two, at E95; oxchanger and deferred icrma. Open till 9 .
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red upholstery. This car bas a really firstrate performance and is io sound condition throughouticont e400 just 12 manibnagor our price 69 guineas; defercd.
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WOLSELEY IIomet, 1930 (Junc), 12hp. 6-cylinder saloon. Triplex,


Wolseley IIornet. Brooklanda Mntor Co. offers: 1930 coachbuilt saloon. taxed. exceptional condition throughout. \&110; exchanges, de-
lejred. 3.31 Euston Rd., N.W.1. Museum 3143.4 .

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2136. 36 High St., Eton. Phone, Windsor 308 . 97.357

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WOLSELEY, 1930 (July) Hornet coachboift saloon, front and rear bumpers, ode owner, mileage 7,800, \&110. Below.

2930 (Junel IIornct saloon, beige-black, mileage moderate, bumpers,
dircetion adicalorg, bargain,
fiol Melow. Smith and IIunter, Litd, 407 Edgwaro Ild. Ambassador 1011. Eren-
ings 8 , Saturday 6 . Sunday $10-1$.

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