## The <br> 87 Chemberar <br> The Only Small Car Journal Founded 1912 <br> 5. IS. Ranctry Ame EC <br> Vol. XL. No. 1029 friday, Aug. 26. 1932

## 1 <br> 0

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MPPROVED WELSH COAST ROAD.

The main road round the coast of North Wales from Chester to Holvhead is undergoing extensive alterations. At this point on the Penmaenback Headland, near Contway the new road will pass through a very fine tunnel.

## What's On

The Cream of the News

A GREAT T.T.-and a great victory for Rilays. Me:rty congratulations to all concerucd.
12 EORD CROWDS, it is stated, attended the T.'T. this year-a happy augury for the continuance of this classic road race in Ireland.
Major Gardnele, we are pleased to learn, is making good progress following his crash at Ulster. Mamiltou, too, is weli on the mend.
A SPECLAL ATMRACTION in Belfast during T.T. week was the film "The Crowd Roars." The racink croved in the audicuce did/ a real thriller.

LTGUTING-UP TIME in London to-morrow, August 27 th , is $S .59 \mathrm{~m} 1 \mathrm{~m}$. Turn your moncy ou August 30thbut don't look at the new moon through glass!
TRIUNIPII AND WOLSELEY developments are dealt with fully iu this issue. Special bodywork for the Wolseley is also fentured. Look ont for further interesting 1933 programues next week.

A Caralin rallig will take place at Minchead this week-end.
ZIG-ZAG induction. Lowis Mantell deals with an interesting technicul aspect this weck.
$\mathbf{R}^{\mathrm{EAR}} \mathrm{ENG1NES}$ A correspondent re-opens a time-honoured subject of discussion in "Our Readers' Opinions."

A MY- 1 is, we believe, the first of the new three-letter registration numbers to be issued. It is ou au Austin 12-6.
A MEARSE caught doing 50 in.p.h. nt Llanelly cost its driver $£ 1$ for cxceeding tho commercial vehiclo speed limit.

SMALL, ADS. for The Light Car and Cyclecar will close in future at 6 p.m. on Mondny for the following Friday's issuc. Displayed advertisements, however, ean be necepted until the first post on Tuesday. The new arramgenent will allow readers liviug in remote parts to get Sun-day-posted small nds. into the next issuc.

THE SHOW is onls seven weeles off. Our preliminary descriptions indicate that there will be plenty of outstandingly interesting mudels on view.
LIFTS are almost impossible to get in these Dick T"urpin days, according to a "hobo" who was given a rido ly a member of our staff last Mondas.
A. S.O.S. of the road is pleaded for by a writer in The Motor. It would certainly be nice to be able to let a man know that his lugnage was falling off without the usual muddle.

FLLEE STATE duties on Eritish light cars are now very heats. Fior example, the Arustrong Niddeley fexio model costs $£ 399$ in Dubliu, according to a Molor News advertisement.
Light C.ar club Relay Teams have been invited to enter fur shelsley on September 3rd, and it is honed that there will be several in the list. News of the event appears in this issuc.
OLiMPLA CLIANGES this year include the accomonodation of the Conchwork Section in the New Hall, which adjoins IIammersmith Rosd, and of the Garage and Service Section in the big hall anuexe. The car exhibits will be concentrated in the hig hall, where they will occupy 47 stands. Tuking all sections ivto account there will be nearly so fewer exhibitors than last jear.


The R.A.C. International Tourist Trophy Race

## Light Cabs Come

WITII only one pit stop for re plenishments, C. R. Whit croft, driving a four-cylinder 1.057 c.c. Riley, entered by D. C. McLachlan, won the Eleventh International Tourist Trophy Race of the Rosal Automobile Club-the fifth to be beld over the tortuous Ards cir-
cuit in Ulster. cuit in Ulster.
By the time the race had been in progress half an hour, and the cars had settled down to their work, Whitcroft had worked his way into third place.
This position he sacrificed temporarily to Victor Gillow (Riley), but by 2 p.m.-three hours after the start-he had secured second place, and a fraction after $3 \mathrm{p} . \mathrm{m}$. he ran into the lead, holding his position securely until the end.
He covered the 410 -mile course in 4 hrs. 58 mins. 4 secs. at an average speed of 74.23 m.p.h., and crossed the live 1 min. 23 secs.

Whitcroft (Riley) First,
Graphic Report
$\begin{aligned} & \text { A complete list of the results together with an } \\ & \text { analyticel survey of the } \\ & \text { of this appears at the end }\end{aligned}$
troot.
ahead of George Eyston, in a Riley of similar type.

Until just after 3 p.m. it looked as though Rileys would be first second and third. Then, be first, to the lead and had hung grimly improving on his handicen steadily sensationally, letting icap, crashed (M.G. Midget) into inird R. Hall Fourth and fifth plard place. magnificent driving, to fell, after and Sir Henry Birkin Earl Howe Alfa-Romeos), Rose-Richards anc.
the Hon. Brian Lewis (Talbots) were sixth and seventh respectively, and McClure added still further to the liiley laurels by gaining eighth place with the 1 -litre model.
Aldington, in his Alpine Frazer-Nash-put in at the last moment, by the way-was niuth, and J. G. C. Low completed the list of those who by bringithin the qualifying time by bringing his unsupercharged M.G. Midget into tenth place after a rull of almost unparalleled regularity, for from beginning to end he made in the $;$ and his was the only car Once race which did not stop. Once again, theiefore, light cars ciassic motor in one of the world's classic motor races, and once again
the names of Riley and M.G. are pro-


## 

 I. © Midget) Third. d IncidentFirst to get away at 11 a.m. -the Rileys, the Crossleys and the Alta. Eyston who held the lead for the first lap is secn on the extreme right. He finished second in the race.
mincuty to the fore; the leading Rileys, indeed, performed the almost incretible task of beating the speed of Caraceiola's great Mereedes which won the race in 19?! at 72.82 .
Lisen allowing for the more favourable conditions under which last Saturdays race was run, this was a phenomenal achievement, the contemplation of which almost tukes the breath away.
Efually breuth-taking was the maner in which Earl Howe aud Sir


Wenty Birkim handled their AltiRomeos. Again and again Sir Henry lowered the lap record, and he erowned his efforts towards the end of the race by putting in a lap at s3. $20 \mathrm{~m} . \mathrm{p}, \mathrm{h}$.
The spectators showed extraordinary enthusiasm, wave after wave of cherring greeting the outstanding incidents of the struggle.

Accidents - and mariellous escapes from accident-there were in plenty, and the sympathy of every sportsman will go out to Major A. T'. G. Garduer, who erashed badly
during the race and is now in hospital with at fractured thigh, and to II. C. Hamitton, who came to grief in practice.
Both men are, we learn with relief, making excellent progress; in fact, Hamilton actually watched the progress of the race from Nowtownards.

Other unfortunates were Gillow, Dixon and I. G. Moure; they


Eyston (on right) and his mechanic Denley, after the race. Eysion finished second.
escaped miraculously, and the full details of the incidents, together with the story of the race, now follow:

## THE RACE

CATURDAY, August 20th, dawned bright but cool iu lBelfast. The hall porter at the Grand Central stepped through the swing doors of the great hotel to sniff the air and his sharp eyes fell ou in small knot of enthusiastic young Irishmen. They formed the nucleus of a crowd which soon grew bigger-for were not most of the racing drivers and their crews staying there, and wouldn't it be fine to get a glimpse of them (and perbaps their cars) before they set off along the road for Dundonald?

The hall porter thought it was going to be a fine day and probably said so to himsclf; at the same time an army of people in the hotel-oficials, drivers, mechanics, pit attendants and folk who had come over the water especially for the oceasion, were echoing his sentiments.

Obviously it was going to be a fine dny for the race, and they all came down to brenkfast and said so, one to another. The rass, the only real road race in Britain-what a shame if it rainedbut it wouldn't, it couldn't, it mustn't!

And it didn't. What a das!
Out in the street a racing car drew up. The crowd surged round it and two hefty members of the Irish Contabulary pushed their may through the josUling folk. Did they say menacingly " Get a move on there? "-not a bit of it. They wanted to have a peep themselves!

By S. 30 a.m. trams going towards the course were crowded, and every known type of locomotion appeared to have been pressed into service to take the happy folk to the T.T.

Stately motors rode side by side with jaunting curs. In and out darted sellers of programmes and souvenirs; large numbers of the poorer section of the community were footing it, with haversacks contajning the day's provisions on their backs.

In short the World and his Wife, of Ulister, were out to make a holiday of it and they meant to start carly.

Not such fun getting to the coursc, though. The direct rond to Dundonnld was reserved for officials and competitors. Spectators were diverted up the narrowish road which climbs to the ceiling of Belfast and then deseends like un escalator behind the pits.

But what a view over the famous city and the sea beyoud and the dark biue hills on the other side with their heads in the clouds.

Between those self-snme clouds the sun suddenly showed his kindly face.

kOUND The course. (Top, left) On Quary Corner. Eyston (Riley) followed by Dixon (Riley) take the bend fairly close in -wimess the wheel marks of other cars. (Bottom, left) The six-cylinder Riley (AicClure) sweeps pasi Crovesher (Crossley) who had slowed down with engine trouble near Quarry Corner. (Abote) J. D. Barnes leading Norman Black (both in M.G. Nidgets) round Dundonald Hairpin. (Below) Dixon, the famous motorcyele T.T. rider speeding past the tighty packed spectators.

the mine Milgets. A hright blue Riley formed a sudden relief, then came tho cream-coluured Crossleys, the green Alta and the predominating blue of the batch of Tileys which rounded up this varied assortuent of super-sports cars.

All "stripued" remember; no ugly wings or lamps, just like the real thiug. Mascots there wore in pleuty. Hero a Mickey Mouse strapped to the radiator, there a Hower-bedecked horseshoc on

The third man home $-E$ R. Hall. He successfully kept the Midget flag flying and finished in fine style.

the front dumb-iron-and on one Viley a sprig of white beather.

And behind all this a quiet, peaceful countryside dotted with marquees, gramdstands, refreshment booths, gaily coloured advertising signs, thousands of people and masses of cars parked in orderly array.
liftecn minutes before the race was due to start a syuad of police drew up in front of the grandstand and amidst the checring of the multitude their (iraces the Governor and the Duchess of Abercorn, attended by a distinguished company, stepped from their car and were given an official welcome by Commander Armstrong of the K.A.C.

Heads were uncovered and the whole assembly rose to its feet as the strains of the National Anthern floated across the countryside from the battery of loudsueakers adjacent to the scuring board. How fine they are, these splendid Clsterwen.

Then we all turned expectantly towards the road in front of the footbridge, and the drivers and mechanies of the liileys and the Crossleys and the Alta shook themselves duwn into the cocbpits of their cars, for the $\begin{gathered}\text { would be }\end{gathered}$ the first away with three laps and 7 mins. 6 secs. handicaps to their credit.
Not that they started from the limit mark, far from it ; it just happened that, as was explained fully last week, their start "fitted in" for 11 a-m.

And while we are waiting for the flag to fall, let it be explained that we need not lie vastly cuncerned over this handical limsiness at the start, for we may follow the progress of the race itself from a handicap point of view and thus obtaiu a clear and aceurate conception of what is going forward. Let us, in fact, view it as though the whole thing were being re-enacted.

The start takes nace suddenly; it catches the broadeast announcer unawares, and whilst he is in the middle of a general statement his "voice" is drowned by a bellow of exhausts. The Fileys and the Alta are away but, bad omen, two of the three Crossleys are chstinate and are left on the line for 10 full and precious secouds.

Low's valiant unsupercharsed IX.G. Midiget then slips quietly into the frilyin continue non-ston for 110 miles and gain tenth place in the race.
lateh after batch follows, some get away cleanly, others hesitate, and at last only those two formidable Alfa-1homeos are left, Sir llenry Lirkin in one, Farl Howe in the other. liirst gear is in. cluteh is held out, a finger hovers over each starter buttou
Sir Henry appears to get off the mark quicker than his fellow sportsman, for with "No. ä" valuable yards ahead they seream under the footbridge and zo tearing down the straight towards Quarry Comer.

Comes the voice of the announcer: "Eyston's Riley is first at Newtownards" . . . a pause . .. "Whitcroft is first at Comber. . . Whitcroft lleads at Dundouald

What a thrill! We strain our eges down the road to catch the first glimpse of him and we reffect on the titanic struggle which is going on already on this magnificent road circuit dominated by the fanous Sicrabo monument.

Here comes a small speck which grows rapidly larger and appears to be sliding along the polished road towards us at incredible speed, behind there is another, and another. A sudden burst of sound and they are sweeping past, Whitcroft first, then Eyston, Gillow, Dixon and Staniland-only yards between them. Follows Sullivan (LeaFrancis) only 300 yards behiud them, then Von der Becke and Wisdom in th: remaining Rileys, Moore's Frazer-Nash aud "Karachi's" Alvis. The stand erowds rise to their feet and checr but those behind cry " Sit down!"

Next comes the Mta, a littlefuhead of Oats's Crussley, then Aldiniton in his unsopercharged Alpine Frazer-Nash and Shuttleworth's Iston-Martin--and two low dark-coloured cars snaking at well orer the 100 mark down the roat-the two Alfas, with Birkin still ahead.

They have already passed the rest of the field and they know that they have got to go " some."

## The First Pit Stop.

McClure's Riley passes Paul's M.G. Midget, which thea beads the smaller chaps-all Midgets and going well; finally, in stazely line-nhead iormation, come the redoubtable 'Talbuts and the first lap has been completed.

No. 23 alas! mulls into its pit and Balls struggles with a shock absorber mounting of his C'rossley.

Wie learn from the loud-speaker that Hailwood's Midget has had io stop at Comber " for adjustments." 1le arrives at last and wases a band to siguify that all is O.K.

A longish wait-or so it seems-and then come the Rileys agail. Eyston has wrested the lead from Whiteroft. Sullivan tries to pass Staniland opposite tho grandstand but fails, and with a whee-ec-ee all the rest come hurtlin: past.

Most detinitely the race is on!
lit stops begin to cruse anxiety. Hiudmursh's Talbot pulls up and a jet of steam shoots into the air as the tiller cap is Hun: back. Fresh water is hastily added and he is away: but be stups several times later for the same reason and discovers too late that the ball release valve in the radiator has jummed.

Gardner fails to appear, and the news trickless throngh of his crash. What terrible luck! He has skidded ut Glen Hill, struck the grass verpe and sumersaulted twice. His mechanic has

## THE T.T. (Contd.)

escaperl fairly lightly, but Gardner is on his way to hospital with a fractured thigh.

The nositions change. Dixon's Riley slips into second place, hotly pursuing Eyston. Whiteroft is close behind, but Gillore threntens him. Then come Staniland and Birkin, with Paul's Midget and Fiowe's Alfa in closo attendance.

The leader is areraging $72.85 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. and has gained 26 secs. on his handicap. Whew!

The first withdrawal-apart from Gardner-is Oate's Crossley, at Comber, with clutch trouble.
live minutes afterwards-at 11.6.5 a.m.-Stanilaud's Riley "goes out " and Wisdom's Riley follows-having hit a shop at Nerstownards Corner and woblend back drunkenly to the pits. F. S. Larmes's M.G. Midget gives up at Quarry Corner, having been in collision with one of the Talhots, which conld not avoid the little M.G. as it skidded broadside.

More minor pit stops, more reports of skids and minor collisions at Newtownards and Comber, and more excitement as Freddie Dixon takes the lead at 12 noon, with 2 mins. 21 secs. to play with on handicap, but only 17 seconds nluead of Eyston. Gillow's Riley now lies third.

Behind him come Whiteroft. Paul's Midget, Birkin, Howe and Von der Becke. Birkin is averaging $\$ 1.33$ m.p.h.

At 12.20 p.m. Gillow changes his plugs -in three minutes-and at $12.25 \mathrm{p} . \mathrm{m}$. the Alta gives up the contest, having hit the famous hutcher's shop in Comber. At $12.30 \mathrm{p} . \mathrm{m}$. only three completo teams are left in the race, but Gillow's stop has lost bim third place, and Whiteroft has slipped into it.

Dixon, Eyston, Whiteroft-so the battle gnes on until 2 p.m., when Whitcroft takes second place and Eyston third.

In the meantime Birkin has taken four churns of petrol and one gallon of oil on board and has changed both back whecls-in 2 mins. 25 secs. ; Diron has refuelled in 62 secs. ; Paul's M.G. Midget has retired, and there have been more pit stops anongst the backmarkers.

At 2.10 p.m. Tom Moore does battle with his car for 500 yards before letting it have its own way in the front garden


Wriggling round the bends. Cyril Paul (Midget) being pursued by McClure (Riley) on one of the most treacherous sections of the circuit.
of a cottage at Lallystockart-the same that Hamilton invaded during practice -and Ifailwood's Midget, after a fine run, goes out with a broken valve. Gillow has craslied as well, and his car is too lindly damaged to continue.

Then the crowd groans. for Birkin slitbers to rest at his pit. His oil pressure has dropuci ominously. He finttens himself on the road and peers beneath the Alfa . . . a fuick adjustment and he is vaulting into the cockpit and off down the course like a flash; but the stop has cost him dear-from fifth in cighth place in one fell swoop and 12 full minutes to make up on the leader.

Howe is not a lot better off, for at $2.30 \mathrm{p} . \mathrm{m}$. he is over two minutes behind his handicap average, and Dixon is still going great guns in the lead, or so it appears. until with a gasp the great crowd in the grandstand and in the fields adjoining suddenly see that Whitcroft has passed Dixon!

What cheers, what excitement, what speculation!

Whiteroft leads, Dixon is only a matter of yards behind, Eyston is still hugging third place, and Mall, Howe, Pirkin, Rose-Richards (Talbot) and Norman Llack (M.G. Midget) are bringing up the rear.

What's this?
Dixnn has overturned at Quarry
Corner?
The cromd gasps-it can't be truc;
but it is, and Dixon and his mechanic are lucky to be alive, in view of the anties of the car, which hats finished in a field after vaulting is hedige.
The toll of retirements yoes on. Cralytree's Midget is out. It simply wouldn't go, and, like Пindmarsh, he discovered his trouble too late - a punctured flont: Esplen's 'Talbot, also, is in the dead-cat park.
At half-past three the excitement is intense. Whiteroft leads Eyston lyy just over a minute, hut there are some three more laps and a bit to go. Is thee more wans whing his chancē to swoop. . . . ? Ifall, too, has come into the picture, but he is eight minutes beltind. The alfas have been driven almost to breaking moint, but if anything bappened to the Rileys.

Folk begin to womder what chance the backmarkers really have. Roselichards and Lewis ('Talbots) are going wonderfully, but theyre a long way bebind. Aldington is ruming beautifully -performing prodirics, in fact, with his unsupercharged Nash.

Meditations are at length interrupted and speculation set at rest. Whiteroft is on his last lap, has passed through Newtownards without mishap, has streaked through Comber, and is speeding along towards Dundonald.
No gnod telling people in the grandstand to sit down now . . . there's the checkered flag, there's gooil old Ebby,


CROSSING NEWTOWNARDS SQUARE. lightning change up, is seen in the wake of E. R. Hall (Midget). Note the crowd lining the square.
there's Whitcroft's number-17-leing held alnft, and there is Whiteroft himself swishing over the line, winner of one of the greatest races ever at tho phenomenal speed of $\mathbf{T} 4.23 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. with ouly one stop for replenishing.

Whiteroft raises his hand aloft to acknowledge the cheers, the waving haudkerchiefs, the clapping; his merhanic foes one better and lifts both arms high above his head.
And the race is over-or all but over.

Next comes Fesston, then IIall ; brith aro checred to the echo, and there is plenty of enthusinsm left for the other finishers, which, after all, is just as it should be, isn't it? And just what you would expect from big-hearted Irishmen.

## The Race at a Glance

## HOW THE RACE PROGRESSED

The table below gives the leaders every half hour, together with the actual time gained or lost on handicap speeds. The times represent the hand.cap intericals between the cars.



 l'aul (M.G.) - 28 g., 69.16 mph m.









 Birkin (Alfa-Romeo) - 1 m .44 g .079 .82
 Crabtree (M.G. $-\frac{4}{} \mathrm{~m} .10$ s., 6796 mph nixon (Riles) $+\begin{array}{r}2.30 \\ \mathrm{p} . \mathrm{m} . \\ 41\end{array}$



Ron. Richards (Talbot) - $4 \mathrm{~m} .17 \mathrm{s.c} 76.04$




Birkin (Alfa-Romeo) - 4 m .43 A .79 .02
Roce- Richards (Talbot) - $8 \mathrm{~m} .57 \mathrm{~A} ., 7514$
Black (M.G.) - 10 m. 40 \%. $66.54 \mathrm{mp.h}$
Whiteroft (nites) ${ }^{3.30}+10 \mathrm{~m} . \mathrm{m} .43 .7437 \mathrm{~m} . \mathrm{p} . \mathrm{h}$.


Birkin (Alfa-Romeo) - 4 m .2 s., 79.41
Mose.Richards (Talbot) - 8 m .58 s .45 .4 m
I.ewis (Talhot) - 12 m .3 .., $74.62 \mathrm{~m} . \mathrm{p} . \mathrm{b}$.
lilack (M.G.).


## WHAT HAPPENED TO THEM

## Details of the Performances of each Driver

E. R M.G. MIDGETS (74G c.c.)

A finc. Hall, third in the nace at $69.93 \mathrm{~m} . \mathrm{D} . \mathrm{h}_{\text {. }}$ J. C. C. Low funsunercharged) finished tenth ait $60.17 \mathrm{~m} . \mathrm{p}$. h The only car to mako an ahsolutely non-stop run
an lack covercd 25 lapa and withdrew. Ile
Wa. Lho winner of last year's race. withdrew. S. A. Crablroo oorered 20 lapa and withdrew. Troublo atated to ba with petrol feed.
C. Panl covercd 18 laps mad withdrew enginc troulhle nfter laving put his class record up to 72.64 mph . it Ilailwool rovered 13 laps and withdrew
with m brokn ralye.
Major A. T. Giardner crasued on sevention
Masor A. G. Gardner crasued on seventis
S. S. Barnes drore Homilton's repaired car which had been damaged in practice. IIc was involved in a collision in the race owing to a skid. The car was too badly damaged to cou tinue. Covered Sy lapa.

## RILEY (1.087 e.c.).

C. R. Whicerolt, first in the race at 74.23 m.p.h. Stomped only for replenishments. 7 . Eyston, sacond in the ruce at 73.9 m. M. B. Stopped only for replenishments. laps, during which ho had to change tho con
Lact breaker. from the atart until ho crashed ot Mill Curner $76 \mathrm{his} 25 t h$ lap. Establshed ciasa record a
V. Glllow covered 11 lapm and withdrew due co. damage onused by a akio
aller lapg with Thine trouble.
demaged stecring witicw at Newlownarde with
V. Rilcy's Riley ( 1,486 c.c.).
E. McClure, aighth in the race atarter.
ruph. Delayed by having to change a bucked whel end make adjustments.

CROSSLEY (1,098 c.c.) dr. Crowther covered 12 laps and with V. Ballg corcred 8 troubse. and withdrew with H. ト. Oata covered 4 laps and mithdrow with clutch trouble.
3. L. Fard conered 8 (1,074 e.c.). hiting a butcher shop in Comber and sereriug a rear spring anchorage.
R. O. ASTON-MARTIN (1,476 e.c.).

Who pui upan an enthusiastic local mintorise
which up a aplendid show during the 29 laps recurd at 74.06 nu.p.h. H. J. FRAZER-NASH ( 1.496 e.c.).
 mp. A Gine trouble-free rum Ballystockart. ALVIS (1,492 c.c.).
V. Karachi" (nvercd 29
Lat.).
TALBOT ( 2,970 c.c.).
T. E. RoseRichurds phacid sixth at 75.32 Hon. B. E. Lowis finished seventh at 75.3 m.p.b. Inrolved in a collision with a Milget which necessitated a pit stop for adjustmests and appeired to aflect the brakes. 23 laps. Had everal pit stops for coot alcer nump, rachiator and braker 16 laps with water

$$
\begin{aligned}
& \text { ALFA-ROMEO (2.336 c.c.). }
\end{aligned}
$$


mi.jh Listabliabed lap apeed record of 83.2

# Still Better Hornets 



The saloon is almost identical in outward appearance with the 1932 car and has very roomy bodywork.

F
OR the coming year the standard forward-engined Wolseley Hornet introduced at the last Olympia Show, and the special sports chassis which made its debut early this ycar, will be continued, but both models have received considerable attention. Although the prices remain unaltered, it is estimated that more than $£ 20$ worth of additional value is now incorporated in the saloon model, for instance.

The question of cylinder bore wear is one which has exercised the minds of many motorists in recent times and tho Wolseley Co. deserves considerable credit for tackling the problem earnestls. The solution, which has already been proved to be thoroughly satisfactory, is the use of slecves for the cylinder bores: these sleeves being made of a special centrifugalls cast iron, which is considerably harder than the material normally used for so complicated a casting as that of the cylinders and crenticase The change is not one which is risible externally-indeed a close inspection of a cylinder block scarcely shows much difference to the ontrained eyc-but there should be no doubt that this will result in a greatly improved life.


A spring-loaded shackle is used at the rear of the front spring to keep shocks away from the steering. B12


An outstanding feature of the Hornet engine for 1933 is that the cylinder bores have centrifugally cast hard iron liners to minimize acear.
 shackles are reinforced.

Along with this important change, the piston design has been altered, what are lnown as centre-seal pistons being employed. These carry two plain pressure rings and one grooved scraper ring above the gudgeon pin, while in the skirt there is a stepped ring which also serves to prevent the passnge of too much lubricant. In consequeuce, the consumptiou of oil should be reduced to a minimum.

The only remaining change of imnorttance on the engine is the adoption of a distributor which automatically advances or retards the ignition, as may be required. Manmal control is retained, however, so that the driver's discretion can still be exercised.
The elutch is entirely difierent from that used in 1932. Although a single plate is still employed, 1 his has a flexible centre, and arrangement is make to piek up the drive very smoothly. Furthermore, there is only one point of adjustment. The gearbox remains very much as before, except that roller bearers are now fitted to the layshaft, so ns to reduce friction and to increase reliabilityFor 1933, the standard model, like the existing special, will have a Hards Spicer tubular propeller shaft with mechanical joints at each end.


The rear direction indicator incorporates the rear light, brake stop light and a reversing lamp.

## R 1933

## es Nurnerous Modi-

 der Rear Track.
## Bore Wear

Although it follows the same genern layout as that used bitherto on Hornct chassis, the rear axle has a larger banjo ensing and is, in fact, strengthened throughout. A small feature which is of interest, is the provision of a dip stick oo that the level of oil in the axle can e observed very ensily.
Lockliced hydraulic brakes are renined, of course, but the drums are now ibbed so as to provide greater rigidity and an ndlitional cooling surface. This s understoorl to have reminved all endency for the brakes to squeak.
Rither wider springs are used and wides nre provided for the shackles, so is to minimize side sway. At the front here is a suring-loaded slinekle dimper. which cuts out all road shocks from the tecring wheel and inproves the stecring :encrally: Another factor which contritutes in this end is the use of a selfidjusting track rod.

Larger Petrol Tank.
An eight-wallon petrol tank is now rovided-still at the rear, of coursend fuel is fed to the S.U. carburetter way actrolift instead of by a vacuum ink. Another chnnge in the equipment the use oi a Lucas device known as me Startix. This onerates electrically add its effect is that if the engine stops ur nuy reason while still switched on ice starter motor is brought nutomaticlis into action and the engine is re:utted. In thick traflic this should be ,inoon.
'If here are three possible positions for c ignition switch. If it be rooved from c of position in a counter clockwise resction, the automatic arrangement eess not operate, and the eflect is just e same as that of switching on a nor-


For a chassis of its size the 1933 Hornet provides remarkable room for four full sized passengers. Real leather pneumatic upholstery is provided.


The driving position is comfortable and the dashboard fully equipped with instruments.

(Left) The front ap. pearance of the car remains much the same but a honeycomb takes the place of a grille in the radiator. (Above) The switch which operates the direction arrow has a tell-tale light to re. mind the driver that the arrous are still on.
mal ignition system. A small button placed immediately above the ignition key onerates the starter switeh by at relay.

On the other hand, by turning tie switch in a clockwise direction, not unly is the ignition circuit completed, but the starter is brought automatically into action as well. Actually, it does not operate continuously but is brought in and out of action intermittently until the engine fires.

At the front of the car a new stone guard is to be noted. In place of the wire sereen is a honeycomb arrangement which has an appearance very similur to that of a radiator block. The Eamiliar Wolscley medallion is still mounted on the radiator and is now illuminaterl after dark by a small lamp connected


The new piston has two pressure rings and a grooved scraper above she sudgeon pin and a further stepped scruper ring in the skirt.
in the samo circuit as the side lamps. This distinctive arrangement should aqsist to identify a car when parked at uight amongst many others.

Each headlamp is mounted on $n$ column of its own, which rises from the: valance of the front wing. An addition to the electrical system is the fitting of an illuminated direction indicator, front and rear. The latter incorporates a stop light, the usual rear light :nnd at

## 1933 WOLSELEYS (Contd.)

reversing light, which is switched on automatically whenever reverse genr is angaged, provided that the side lamps are alight.
The direction indicators are controlled by a small switch placed above the windsercen in front of the driver. With this switch is incorporated a tell-tale light which should prevent the driver from leaving the switch inadvertently in the left or right positions.

At the back of the car a luggage grid is fitted, but in other respects the appearance is not greatly altered. Internally, too, the general dimensions are much the same as before and are, of course, remarkably large for a car of this wheelbase. This general arranicment, which caused such a sensation when it was introduced a sear ago, has proved so successful and popular that it is to be applied for 1933 to the new 16 b.p. Wolseley, an interesting car, which is, however, outside the light car category.

The finish is eren better than before. Real leather upholstery is employed, for instance, and neat black fillets are fitted

## AT A GLANCE

ENGINE: Six cylinder, overhead values and camshaft; 57 mm . by 83 mm .1271 c.c.; tax, 112 ; four-bearing crankshaft, pressure-fed lubrication.
TRANSMISSION: Dry single - plate clutch with fiexible centre; four speed silent-third gearbox; ratios. $4.78,6.48,11.1$ and 17.06 to 1 ; fnal drive by open Hardy Spicer propeller shaft 10 spiral bevel back axte.
DIMENSIONS: Wheelbase, 7 ff. $6 \frac{1}{1 n s .}$; trach, 3 ft. 9 ins: i overall length, (uith bumpers) 11 ft. 83 ins. ; width, 4 ft. 7 ins.; height, 5 ft. 4 ins.; turning circle 39 fl.

## WOLSELEY MOTORS (1927) Lfd.,

 Ward End, Birmingham.
## 1933 WOLSELEY PRICES.

Fornet four-door saloon ... $\quad$ C 198 10s. $\begin{array}{lll}\text { Hornet occasional four coupu } \\ \text { Hornet special chassia ... } & \text {... } & \mathbf{8} 175\end{array}$
around the windows. Furthermore, there is a roof light and an eight-day clock, while each door has a pocket with a Zipp fastener, which should mako for
neatness. So far as the controls are concerued, the only important change is that the accelerator pedal-still mounted on the right-is of the type in which a hinged plate is employed

Almost all the foregoing remarks apply also to the coupe, but on the special chassis there are fewer changes to be noted. These include such items as the Centri-cast cylinder liners, the new clutch, improved front springing, and more robust rear axle. The lastmentioned has a track of 3 ft . 9 ins., which is the same as that of the front asle and, as a result, this chassis is no longer crab-tracked.

A spring steering wheel of the mire spoke type is now standardized. So far as the road whecls are concerned, the hubs can be of the Magna or of tho centre-locking type, as the customer chooses, but in either case the tyre size is 27 ins. by 4.75 ins.

During a short run in one of the new Mornet saloons, it became quito clear that the new clutch is unusually swect in operation. Furthermore, the alterations to the springing have resulted in a considerable improvement, particularly as regards the comfort of the rear seat passengers.

## Some Bodies on the Hornet Special Chassis



The Jarvis, which costs $£ 265$.

TARIS of Wimbledon are responsible for the Hornet Special two-scater illustrated on the left. This model is listed at $£ 265$, and its specification includes a 15 -gallon rear tank, largo wings, specially wide doors, aud tandem sereen wiper. Completo nll-weather equipment is, of coursc, standardized and the makers emphasize the good aupearance of the ear both with the hood up and down. The Jarvis Hornet is obtaiuable in any colour scheme to choice and prompt delivery can be made.

The address of the makers is Jarvis and Sons, Ltd., Victoria Crescent, W'imbledon, London, S.W. 10.

ON the right we illustrate the latest product of the new management of the Arrow Coachworks. This is a Hornet Special full four-seater sports model known as the Belle-Vite; it is designed on rery continental lines.

This model is listed at $£ 285$ and its equipment includes tandem screen wipers, stone guards to radiator and headlamps, concealed luggage grid, quick-lifting hood and side sereens.

The address of the manufacturers is Arrow Coachworks, I,td., Boston Road, Пauwell. Lendon. W.7.


The Arrow "Bellc.Vite" four-seater.


The Hardy open four-seater is a newcomer.
rTロe illustration on the left is of the 1 open sports fcur-seater model produced by IR. Hardy and Son, 50, High Strect, Marylebone, London, W.1, "t £275. Particular attention has been paid to accommodation for four adults; on eight-gallon petrol tank is fitted to the chassis and otber features are headlamp stone guards, a two-way folding screen, IRudge racing wheck, scuttlo ventilators and metal windsereens.
$\Delta$ four-seater sports saloon is also included in the range at $£ 285$, and has four winding windows and a slidius sunshine roof. This model also has an eight-gallon tank and scuttle ventilators. The tools are carried under the bonnet and the equipmint includes safety glass.


The Patrick Pendine super sports.

YIHE Patrick Pendine super-sports 1 model ghown on the left is listed at £275 by Patrick Motors, Lid., 479-481, Bristul Road, Bournville. Birmingham, and is claimed to give full accommodation for four adults. Metal cowls aro fitted to the scuttle; both front seats are of the bucket type, Leveroll-mntrolled, and tilt to give pasy access to the rear seats. The efficient hood in its furled position is concealed within the frame of the body.

Also in the Patrick range is a coachbuilt coupé with a sliding roof at $£ 28$.

JENSEN MOTORS, High Strect, J West Bromwich, are the builders of the pleasing four-seater sports shown on the right On the standard chassis the price is $2 \cdot 2$ and on the Special chassis犬25. Its features are low build without cramping the driving position and giving plenty of leadroom when the liood is raised. The stecring column has been considerably raked and a rac-ing-type spring-spoked steering wheel is fitted as staudard.
A coups model is also listed in the Jensen range for 1933 at $£ 290$, which is of very low build without cutting down headroom.



The Swallow open four-scater.

TUUSTACE WITK1NS, LTD., 12, IJ Lerkeley Strcet, Iondon, W.i, are listing seven models in their range for 19:3:; These are the well-known Daytona model at $\{27 \overline{5}$, the International wo-fous-seater at fōl $^{2}$, the International fill four-scater at £oū̄̃, a drop-head cound at $£ 27 \overline{0}$, the Silex (sliding roof) coupú at $\{2 \mathbb{N} 0$, n 'Tickford sportsman's coupé at $£ 2 S 5$, and a new model, a full fonr-scater spozts saloon with sliding roof at £295.

The coupes have been modified by the adnution of more comfortable seatiug with better accommodation in the rear compartment. Detail improvements have been incorporated in the popular Daytona model in which neater lines are noticeable. The new-comer, the four-scuter suloon is shown ou the right.



M
ALTBIS, LTTD, of 141-143, Sandgate Road, Folkestone, build the enupe shown on the left which is listed at $£ 280$, together with au oien fourseater at $£ 275$ and a two-scater dronhead coupé. A new model introduced for $19: 30$ is a four-seater sunshine saloon at $£ 285$.
The sportsmans enupe is a comfortable three-scater, in which the rear seat-in one corner-is of special desigu. Other features of this model are a concealed lugente grid in the tail, four interiur clectric lights, and a sunshine roof. The spare whed is carried on the sido of the car and great pains have been taken in all models to secure neatness of line.

(Left) The latest edition of the smallest Triumphthe Super Eight pillarless saloon.

1933 TRIUMPH PRICES.
$\begin{array}{ll}\text { Super } & \text { Eight } \\ \text { Supor }\end{array}$
Twelve-Six
Bacb modei is araliable … 2196 prices as a saloon de luxe. a twolour prices as as saloon de lur-scater tourer de lesto
luxa
" Snu Southern Cross" sposts lour
which was announced on Weduesday Inst, there are no entirely new models, and the range consists of three main chassis tspes. Various mechanical changes ire to be noted, however, and considerable improvements have been effected in the bodywork.

Regarding the smallest chassis, which is now known as the Super Eight, the most important innovatious are in the saloon conchwork. An entirels new form of sliding roof is used, a simple chain-and-sprocket gear being, employed, so that the roof can be wound open by meaus of a neat handle inside. All the mechanism is, of course, enclosed and is thoroughly protected from the weather. The sliding portion of the roof fits flush with the metal-panelled cant rails, so that the whole arrangement is exceptionally neat. at the forward end the roof terminates in the fashionable peakless front.

The body itsclf is, of course, of the pillarless type, which the Triumpb Co. introduced a year ago. The doors are now extended right down to the running board, an arrangement which greatly improses the appearance of the car. Internally, the upholstery is carried out in real leather furniture bide, the back of the two front bucket seats being covered with a bigh-grade carpet material. This can, of course, be very easily cleaned, and it is used also on the lower part of each door.

## Window Alterations.

The windin windows, which, like the front screen and the rear window, are of Protectoglass, are fitted with an improved mechanism, so that the glass winds right down to the sill level. To all the doors upholstered rubber tubing is fitted for the exclusion of draughts.

Each door is provided with a silk cord "pull" and a wide pocket. The window cappinge are of polished wood, as also is the facia board, at each end of which there is a cubby hole.

A roof light is fitted, and the blind for the rear window is concealed behind the seat squab, the usual control from the driver's seat being emplosed, of course. Upholstered pads on the rearwheel arches transform them into comfortable arm-rests.

Two colour schemes are offered. In one of them the bodywork is blue with a grey line, the upholstery being brown and the wheels grey. In the other the bodywork is black, with a green line and green upholstery and wheels. Regarding the latter, by the way, a very large hub cap is fitted, so as to give D16


The interior of the pillarless saloon on the Super Eight chassis is roomy and well finished. The front seats can be slid forward to give easier access to the rear seats.
something of the boldness of the large hubs which are now so popular.

The two-seater with dickey and the four-seater tourer de luxe are both continued. Both these models are fitted on a chassis similar to that of the saloon, and bave, therefore, half-clliptic rear springs instead of quarter-elliptics.
Turning to the Super Nine and the Twelve-six, the bodywork on these two chassis is identical. Like the Super light, these bigger saloons Lave a


[^2]peakless front and the winding mechanism for the opening roof, as well os a concealed rear blind and hidden door check strans. The same two colour schemes also are offered. All three models have a wew pattern of radintor stone-guard.

The Nine and the Twelve have a windscreen with special quick-acting fittings, so that the screen can bo fully opened rery rapidly. Provision is also made for quite small openings, such as are sometimes desirable for ventilation. A double-bladed windscreen wiper is standardized. All the instruments and tho usual dashboard controls are coucentrated on the instrument panel, and at each end of the facia board is $\Omega$ cubby hole which is provided with a door.

For 1033, these chassis are wider in the track and have a longer wheclbase, so that a somewhat bigger body is fitted, and the seats are certainly more spacious. At the rear, this effect is enhanced by recessing the body sides so as to provide additional elbow rooll. The wheel arches are very fully padded, and a folling arm-rest is fitted in the middle of the rear squab.

Over the rear seat the roof is recessed Over the rear seat the roof is recessed
to provide extra headroom, and the floor

## ATTRACTIVE TRIUMPHS <br> A "Super Eight"-Four-speed Boxes and Permanent Jacks on the Nine and Twelve

is perfectly flat, no foot wells being necessary. Instead, there is a footrest ou a hinged mounting, so that it can be swung into two nositions. It is also very easily detachable, so that the floor carpet can be kept clean.

Externally, the most notable changes aro in the mudguarding. The front wings are now made in one piece with their valances, and have a rather more pleasing shape. The rear wings are dowed and have less sweep at the back than in $10 \% 2$. Over the rear tauk there is a fairing which follows the contour of the winss. As ou the Super Eight, bumpers are fitted front and rear, and the springs are enclused in gaiters.

The staudardization of $n$ permanent jacking system strikes a new note-at any rate, so far as lisht cars are concerned. Two Stevenson hydraulic jacbs are employed and are mounted one on each side, under the side members of the frame, where they are almost completely concealed by the rumning boards.

Apart from the dimensional changes already indicated. the layout and details of the chassis frame remain very much the same as before. There are, indeed, two extra cross-members near the middle of the frame, but these are very light and serve simply to carry the C -volt batteries, of which there are two wired up in series, as tho electrical
system-ignition, lightiog and so onoperates at 12 volts.
Neither power unit is appreciably altered, and the only noticealile change on the 3 h.p. engine is the fitting of $n$ breather pipe from the oil filler down to the sump lerel, so that fumes are not likely to enter the body. Both models now have nn electrically operated I'etrolift to feed the carburetter from the rear tank.
There is, however, one very important change, in that a four-speed gearbox with silent third is standardized on the Super Nine and on the Twelve-six. Concurrently, the top gear ratios hase been raised substantially, that on the Twelve-six being now 5.75 to 1 , while the Nine has a gear of $\overline{5} .25$ to 1 . The other ratios are given in the specifiention panel, "At a Glance."
There remains the Southern Cross, which for 19:3 will nave a larger engive. So far as geveral desigu is con-

## AT A GLANCE

## SUPER EIGHT

ENGINE: Four cylinder, side-valve, 56.5 mm by 85 mm . 832 c.c. Tax, E8. Three-bearing crankshaft,
pressurc feed lubrication.
TRANSMISSION: Dry single-plate clutch. Three-speed Scarbox; ralios. 6.25, 11.1 and 21.8 to 1. Final drive by tubular propeller shaft $t a$ underslung worm-driven rear ${ }^{7 a}$ axle.
DIMENSIONS: Wheelbase, 6 ff. 9 ins.; track, 3 fl. 71 ins.; ouerall length, 10 fe. 11 ins.; overall width, 4 ft. circle, 34 ft .; tyres, 27 ins. by 4.00 ins.

## SUPER NINE

ENGINE: Four-cylinder, o.h. inlet values, 60 mm by 90 mm . $=1,018$ c.c. Tax, f9. Threc-bearing crankshaf, pressure feed lubrication.
TRANSMISSION: Dry single - plata clutch. Four speed silent ihird gearbor. Ratios, $5.25,8.05,12.47$ and 20.42 to 1. Final drive by tubular propeller shaft with mechanical universal joints to
DIMENSIONS: Track, 3 ft. 9 ins. wheelbase, 7 fl. 83 ins.; overall length, 12 fl. ; overall width, 4 fl. circle, 37 ft.; $t y r e s, 27$ ins. by 4.40 ins.

## twelve six

ENGINE: Six-cylinder, side-value, 56.5
 pressure feed lubrication.
TRANSMISSION: As Super Nine except ration
22.40 to 1.
DIMENSIONS: As Super Nine except wheclbase, 8 ft.; overall lenfth, 12 wheelbase, 8 ft.; overall lenpt
ft. 4 ins.; turning circle, 33 ft.

> "SOUTHERN CROSS"

ENGINE: As Super Nine except 63 mm . by 90 mm . $=1,122$ c.c. Tax, $\AA 10$.
TRANSMISSION: As Super Nine excepe ratios, 4.8, $7.36,11.40$ and 18.7101.

DIMENSIONS: As Super Ninc except wheelbase, 7 ft. 3 ins.; overall length, 12 ft. 5 ins.
TRIUMPH CO. LTD., COVENTRY.


The Super Nine De Luxe coachbuils saloon is larger for 1933.


The tuo-scater on the Super Nine. There is a large dickey seat.


The "Southern Cross" sports four-seater in its latest form.

(Left) The new fourspeed gearbox filted to the "Nine" and "Tacelve-six" has a silent third ratio. The transmission brake is retained. (Right) Stevenson hydraulic jacks also figure on these two models.
cerned. this porer unit is rery similar to that which has been fitted during 1932, but the bore is 63 mm ., which, with a stroke of 90 mm ., gives a capacity of 1,122 c.c. instead of 1,018 c.c. Vinike the Super Nine, the Southern Cross has not a lonecr whecl-
base than for 1032, but the tracis is increased to 3 ft 9 ins.

The new "silent third" four-speed box is, of course, employed. With the larger engiue and no appreciable increase in weight, somewhat higher gear ratios can be ased, top gear being 4.8 .


For the most part the bodywork is unchanged, but flared wings of slightly different shape are employed. The performance of the 193: Southern Cross is expected to be distinetly above the usual run, and a bigh cruishog speed is asticipated.

## New Anti-Dazzle Bulb

## Mazda Lund Innovation

Aheadlanlp bulb with special anti-dazzle properties will shortly be marbeted by the British Thomson Houston Co., Ltd., and will be known as the Mazda Lund bulb. The filament is of the close-coiled loop type developed by Mr. Lund, and is so arranged that a rery accurate degree of focus is obtainable. The glass of the bulb is of special shape, and its unper portion is provided with an opaque covering having certain reflecting powers which add to the effeiency of the lamp.
The bulbs are to be arailable for use with 6 -volt or 12 -volt systems, single or double contact. There are three powers of bulb for each voltage. The prices of 18 and 24 watt bulbs of either voltage will be 4 s. , whilst the 6 -volt 30 watt bulb is to cost 5 s . Gd. and the 12 -volt 36 -watt bulb 4 s . 3 d .

The R.A.C. bas issucd a report of a trial of the Mazdr Lund bulbs, in which it is stated that two of the $12-$ volt 36 -watt bulbs consumed actunlly 34.4 watts each, providing a total candle-power at the source of 4 S .6 . It was found that with the lomns mounted at normal height, blinding effect at eye level ceased at a distance of 150 ft . in front of the lamps.

From the driving seat a pedestrinn so dressed as to be seen only with dificulty could be picked out when 238 ft . in front of the car, provided that ho was no farther from tho centre of the beam than 13 ft .

The anti-dazzle properties of the bulb are, of course, achicred by its special ecnstruction, and are, as it were, automatic; it does not call for the use of dipping or switching devices.


STILL POPULAR.

Snapped at Chapel St. Leonards, Skegness: Theowner of a Wolseley Hornet Jenson Special watches the operation of holing out at the third on the popular
midget golf course.

Ulster Rally and Concours.

$\bigcirc$UT of the S6 cars which started in Fthe Ulster Motor Rally last week, 76 checked in at the finish at langor, Co. Down, on Tuesday, August 1 Gith. loutes from this country-from London, Eirminghami and Ledinburgh-all converged on Liverpool ; the Irish starting points were Dublin and Ibelfast. In each case the route was approximately 750 miles in length, which bad to bo covered at an average speed (except for sea nad frontier crossiugs) of $24 \mathrm{~m} . \mathrm{p} .1$.
The results are givey under "Club Items" in this issue.
$\Lambda$ Concours d'Elêgance was held on the following day, August 17 th, on the sen frount at Baugor, and the method of judging was noteworthy for its common sense and fairness. liirst and second prizes in the 1,100 c.c. oplen car class were won by W. Waddicor and R. E. Parish with cream liley Gamecocks, and first prize in the 1,100 c.c twoseater coupé class was won by Mrs. Alan F. Craig's red Avon Standard Little Nine. Rileys scored another win in the small saloon class, where J. D. l'arrell's grey and blue car was awarded first prize and 1 . Boal's chocolate saloon second place.
Times taken at a secret check decided the issue between several drivers who had periormed equally well.

## Capt. Yates-Benyon.

TIUE latest news of Cant. YatesLenson, who is driving a Millman Minx tourer overland single-handed from England to Calcutta in nu attempt to race the s.s. "Manora," is that the adventure has ended in a very gallant failure.
The following enble received from Capt. Yates-Benyon, at Quetta, conccals a story of hardship and cndeavour which will probably never be known in its true value:-
"At last. Over 6,800 miles in 33 days. Averaging 207 per day. Slight days. Averaging 207 per dalation Will remain Quetta two days. Feeling tired. This establishos record for any car of any make."


On the famous bend where thrills abound.

## Shelsley Walsh Again

## Next Week-The Amateur Climb

MOS'L of the nces who perform so the open and at the alosed seenent buth at seems no reason, therefure, why, even at the eleventh hour, the record for the existing counse should not fall. Given a fine day and th car that is really belonving itself, there is, in fact, every likelihood of Vun Stiick's figure of 123 secs. being equalled, if not beaten. it must be clearly understood, however, that it is the intention of the M.今.C. to engthen Shelsley course for next year's ,ucu elimb, so, geutlemen, this is your ast chance!
Fintries are coming in very well and. as usual, there are dark horses. la. 'I'. Hortun has been working very hard on his "Special." With tho aid of only one muhanie, this enthusiastic drivel does all his own tuning in the private workshop at lacbed to his own house. Other drivers are equally determined, and much good work has been done since the pen" event
Members of The Light Car Club who took part in the lielay lase have been invited to enter complete teans.

We learn that the arrangements will be the same ats usual, so far as the public is concerned. People who were unable to obtain a really close-up view of the open climb should remember that there is seldon such a big crowd for the closed event although the affair is nearly as good. It will pay them, therefore, to maie their way to shelsicy and obtain a good seat.
Once again, there will be several club rallies, The Light Car Club, amongst others, having siguificd its intention of being present in force. The Riley Club will also be there, and doubtless there will be much celcbration in view of the recent success of Rilers in Ireland.

Shelsley is within easy reach of the Midlands, and is roughly only 120 miles from Londou. The car park arrangements are ndmirable, and there are excellent pienicling sites; in fact, the climb furms a pleasnnt and memorable outing for those who attend

Next weck we hope to give a full list of the ontries, together with other intformntion of direct interest to spectators.


## From Paris

## NEW " BABY" AMILCAR 750 c.c. Model for Salon

A $\mathbf{N}$ interesting small car which will I make its debut at the r'aris Salon next month is the new 75,0 c.c. Amilear, which is to be produced at a remarkably low price.

The four-cylinder engine is the conventional type of side-value unit employed in all Amilcar models. It develons 19 b.h.p. at a normal speed of 3,75U r.p.m., and, as the weight-to-power ratio of the car is very low, it is credited with an excellent turn of speed.

The weight of the three-speed gearbox is only 15 lb ., in spite of the fact that very robust and wide pinions are employed, whilst the weight of the comrlote car with two normally heavy passengers and luggage works out roughly at 12 cwt . It is claimed that a steady $42 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. can be maintained on long-distance runs.
The lubrication asstem is particularly simple and efficient. The oil pump can be dismantled by undoing two nuts, and the return oil pipe-mounted externally -is also casily removed for cleanina purnoses.

Battery ignition is emplosed: the dynamo is driven by belt and the distributor is mounted on the head of the pump shaft 'The camshaft is driven by straight, cast-iron pinions. A singledise, dry-plate clutch is employed.

## Open To You

The following famous gardens will be open to the public on Sunday, August 28th, on payment of a small fee in aid of the Queen's institute of District Nursing.
CHESHIRE. - Peover Hall, Over Peover.
DORSET. - Chantmarle, Cattestock.
KENT.-Oxon Hoath. Tonbridge.
LANCS. - Downham Hall, Clitheroe.
SALOP. - Cheswardine, Market Drayton.
SOMERSET. - Croydon Hall.
Washford. Ven, Milborne Port.

## Going Up!

Welcoming 600 guests to the Wolseley Convention last Tuesday, Sir Willian Morris said chat Ifritain is now defiaitely on the up grade. He added that thousauds of families would employ two or more cars in place of one if taxatiou were less heavy.
Mr. E. G. Morley, the Wolseley sales manager, gave an excellent address on the features of the 1933 Wolscley cars.

## LISTENING-IN

An operator at the Wolseley factory using a radio-stethoscope to detect undue noise in a rear axle. The degree of noise produced by gear-boxes and backaxles is scientifically
regisiered on a dial.


Some of England's most delightful seaside resorts are to be found on the north-east coast of Yorkshire. The photographs on these two pages depict-

## Another £6-tax Car.

THERE now seems to be little doubt that before vers long the $£ 6$-tax car will be an accomplished thing. One hears a lot of talk about it in the trade and last week I was allowed to see an experimental model which has been built by a well-known concern. Half a dozen more of them have been laid down and are in various stages of advaucement from an almost completed rehicle at one end of the shop to an embryo at the other.

Naturally the makers do not wish me to give away their name in case they do not proceed with their plans and they have also asked me to be discreet in referring to the mechanical details, which contain many brain-storms that they intend to keep to themselves pro tem. What do you think, howerer, of a car which will seat two grown-ups and two children, which welghs $8 \frac{1}{3}$ cwt. with a touring body, and which has a two-cylinder water-cooled engine, a unit construction threespeed gearbox and a bevel-driven rear asle with a differential?

## A Fair Start.

THE secret of the exceedingly low weight of this car is that the entire method of body aud chassis construction has been approached from a new angle. And so, for that matter, has the springing and many of the other details of the car.
Whether when this chicken pops out of its egg it proves fruitful or otherwise, it will certainly set tongues wagging and may easily hare a most proв20


## Rich

nounced influence upon the design of the baby car of the future. I shall have more to say about it from time to time as the details of the design? become settled and as the experimental models begin to point the way to the ultimate form which the car will take. Up to date some elght months' work on the idea has been completed by a team of very competent folk backed by the resources of a factory possessing everything needed in the way of plant and an ample reserve of E.s.d.

## Cheap Oil.

Wfinat a lot of to-do there has been about the use of cheap oil. The makers of the wellknown brands hare implored motorists to shun it, and self-appointed experts all over the place have been helping the campaign along. One newspaper correspondent even went so far last werk as to say that if you use cheap oil, carbon will collect in the crankcase and choke the oilways! Certainly the oil companies have suffered from no shortage of recruits for their campaigu.

I wonder whether any useful purpose has been served hy the immense number of darts which have heen pitched so ruthlessly into the cheap-oil purrevor's camp.

## Tar for His "Little Palace."

MY own feeling has been that neutrality rould save a lot of words and fuss without doing either side any harm. The fact stands and is incontrovertible that the high-class brands skilfilly blended to withstand arduous conditions of service, and to preserve bearings that are beantifully fitted, are an extravagance in the eyes of a man whose car is worth only a fiver or two and whose oil consumption is terrific. Equally, the cheap oils which suit his pocket and are good enough to keep his bearings from running are most unlikely to appeal to the owner of an up-to-date model in good condition.

## [IXTURE

Light Car Comment<br>and Advice by gorues.

The " don't use cheap oil" campaign is surely rather analogous to saying " don't tar your house." Nothing will stop the cottager from clapping an ocecasional dose of tar on his weather walls, and noothing will coar him to apply costly enamels to thom. Similarly, the man who has acquired a -'liittle palace" in the suburbs would not be such Eu ass as to call at the gasworks for supplies when a li ttle renovation is needed.

## Bank on John Motorist.

WTHIN you begin to dabble in such subjects as the use of cheap oil you are always likely - cause an upheaval. An oil magnate may swoon owni on you and prove conclusively that no sort f bearing in any kind of car can possibly hang Dgether when fed with a cheaper oil than his. Or
little fellow running quite a small business may Dnfroint you with undeniable evidence to prove mat his 2 s . Gd. a gallon oleophines are a brilliant -ccess in Schncider Trophy engines run perpetuIy in a white-hot furnace in Hades.
1314 : surely all this is a great waste of time. -hn Motorist can be just as surely depended upon avoid! tipping rubbish into his sump as he can to un a ocar that is not the last word in value for Dney. The public is and always has been a Egnificent judge of any commodity and there is Elling harder than trying to swerve it away from בonfirmed belief.

-(Left to right) Staithes; Saliburn, famous for its annual speed trials on the sands; Whitby and Runs. swick Bay. Inland there is the Wolds country.

## Spotting "The Goods."

I$N$ this connection how sure has been the public touch in its choice of ali things pertaining to motoring during the tight times of the past year or two. It took next to no time for everyone to realize that the Standard Little Nine was the goods, and to clamour for it in a voice that shook the works to the core. Aud it is the same with accessories, equipment, insurance and all other motoring supplies.

The public unerringly spots the products of anyone who offers them the little something others haven't got, and swerves violently out of the way of the salesman whose principals bate not been clever enough to provide him with the last word in value for money.

## When a Summons Comes Late.

FROM time to time I hear from folk whose jubilance is tempered with doubt because they have not received within 14 days the summons which they expected would result from some offence that had been committed.

It takes a little time to wring from the lioad Traflic Act the exact position in which one is placed when a summons arrives late. In the first place one must remember that the 14 days limit applies only to a summons relating to exceeding a speed limit, or to reckless, dangerous or careless driving, and, secondly, it falls upon the defendant not only to prove that the police failed to serve the summons through no fault of his own, but also that the constable who stonned him did not at the

## RICH MIXTURE (Contd.).

time warn him that the question of prosecution would be considered. The wording of the Act is as follows:-

> A person . . shall not be cowvicted unless cirher:-
> he was warned at the time the offence was committed that the question of prosecuting him . . . would be tnken into consideration or within fourteen days a summons was served on him or
scution
a notice of the intended prosecution person registered as the owner of the vehicle.
Provided that failure to comply with this requirement (on the part of the police) shall not be a bar to the conviction of the accused . . . where the court is satisfied that (1) neither the name and address of the accused nor . of the registered owner could with reasonable dilizeuce have been ascertained in time . . . or (2) the accused by his own conduct contributed to the failure.

There is only one conclusion to be formed after looking into the matter and that is that the late arrival of a summons is by no means the high road to the case being dismissed. Of that there seems to me to be very little doubt. The whole wording of the appropriate section of the Act is of the kind which may well be described as "'aving you all roads." There is very little opportunity
of escaping the conseguences of a misdeed on a technical point. Magistrates and their clerks are very clever at finting perfectly good and legal reasons for procending with a summons which, to a lay mind, appears to be a "wash-out."

## Souvenirs of Stelvio Conquests.

AMAN who is rich enough to be able to take his holiday abroad this year tells me that the Italians, who have shown abundant evidence of enterprise in attracting tourists, hare started a very crafty idea, which I am sure will prove very popular. They propose, in future, to give to everyone who gets to the summit of the Stelvio Pass ( $0,05 \mathrm{j} \mathrm{ft}$ ) a little certificate, to keep as a souvenir of their having reached the highest noint in Eurone to which you can climb in a car. I do not know whether it is the State which is issuing these sourenirs or the very enterprising li.A.C. of Italy, but here surely is the germ of an idea which is capable of considerable development.

Everybody knows that one of the weaknesses of human nature is to boast of one"s accomplishments, adventures and travels-suiteases plastered with labels provide abundant evidence of that. I wonder if it would be a popular idea if the local publicity oflice or the R.A.C. were to issue souvenirs of the achievement at the top of Beagats' Roost to all who successfully climbed it?


Part of the huge plant laid down at Coventry for the production of the Hillman Minx is this fine new battery of ten G.E.C. electrical testing machines which register the horse power developed at various speeds and which can be made to "motor" the engines so that friction losses can be checked. The fexible pipes maintain a flow of water through the cylinder jackets, the other pipe-work feeding the engines with a stream of fresh cool oil.

"...... talking of Light Cars, Angela, there's only one which really stands out . . . . TRILDMPH . . . the finest Light Car in the world . . . . old cstablished firm . . . proved efliciency engines ....first class bodywork.... always up to the latest improvements for luxury and comfort at real cconomy prices. . ." ". . . . . . Yes . . . . I see that this is a Triumph supplement and that the NEW 1933 TIRIUMPHS are out.... let's go and sec them. . .."

[^3]Mayfair 5323


Morgan Hastings . . . . the REAL Triumph people . . . give you a real good deal on your old ear and the most unnoticcable easy payments . . . what's more they're Triumph's oldest distributors and what they can't tell you about then isn't worih . ..." ". . . . . . Come on Jack, let's go . . . . don't know which of the new models I'll choose but there's one for every taste and every pocket, even ny depleted one!"

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SUPER NINE

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engine-.
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1933 Triumphs provide the comfort of big cars at small car cost. Bodies are hand made, of fine appearance. . . flush-fitting sliding roof, rain and draught proof....four wide doors .... deeply-cushioned seats in real leather.... long, supple road springs . . . . hydraulic shock absorbers ....hydraulic brakes ...."Protectoglass" all round .... petrol tank at rear .... bumpers .... double electric windscreen wipers. Every 1933 Triumph is a De Luxe Model.... there are no extras.... everything you can conceivablyrequire is included. Write at once for the 1933 catalogue.

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The T.T.

A'T a modest computation some 10,000 people landed at Relfast on Saturday last in orcler to see the T.T.; they had come from all parts of the kingdom. At one time no fewer than 10 cross-channel steamers were berthed at Donegal Quay. Spread round the comrse were half a million eager spectators, whilst in every suitable field adjoining the circuit cars were matked in their hundreds. During practice excitement was at fever heat in belfast, and, so far as one cuuld judge, the city on Saturday was on holiday. That is what motor racing still stands for in the eyes of the citizens of Britain; bs itself it would we a strong argument for a road race in Eugland, but there are other and equally important considerations.

The majority of the cars entered were of the "light" varicty-the type that is developing rapidly, yot still needs every stimulus if we are to maintain our position at home and in foreign markets. What hetter advertisement for British goods, and what better way of perfecting modern small cars, of which so much is expected, could be devised than this classic road race? And how much greater would be the interest if a similar race could be staged in England with the full apmoral and assistance of the Government? Ireland finds road racing good, and every other go-ahead country came to the same conclusion years ago. England alome stands aloof. Is it logical-is it reasomable?

## The Advance of the Trailer.

F1 VELIONE returning from motoring holidays ${ }_{1}$ this year is commenting upon the very large number of cars seen in holiday districts with cararans or camping firailers in tow. There is now no doubt that the use of a trailer behind a car has become extremely popular, and may yet extend bunch further than at present. The idea is one Which is very well worth encouraging. There is no doubt that a trailer adds greatly to the usefulness of a car, and particularly does this apply in the case of a small car. For many motorists certainly it is used only for holidays, but the interests of the man who lives in rural country districts and Who frequently needs to use his car for transiorting bulky articles must not be overlooked.

We think that the time has come when car manu-


facturers, in the desion of the rear portion of their chassis, should give a thought to this development. They might give consideration to auy stiffening which may be deemed wise, and they should certainly include a drawbar in the list of "catalogued extras." There are some light cars which have rear bumper fittings of a kind which lend themselves for the attachment. of a drawbar, and there are other light cars which have rear bumpers that, with slight modification, could accommodate a towing pin. The "botched-up" drawbar is rarely a success, and we trust that the trade will note that there are already hundreds, and maybe thousands, of small-car enthusiasts who would greatly appreciate a substitute for it supplied by the factory.

## Unhindered Vision.

Ffrom time to time the dictates of fashion hare run counter to the dictates of common sense. The very low roofs which threatened almost literally to crush us two or three years ago proride a case in point, and the high bonnets which hare been in fashion for so long and which still remain the rogue provide another. In the matter of the height of the roof a rational attitude now prevails, and all the 1933 models so far revealed escape criticism in this respect. A lowering of the bomet line, howerer, is a reform which still shows no sign of securing wide adontion.

We all know that the sole object of a tall radiator is to secure a horizontal line between its filler and the base of the windscreen. This horizontal line is sought because it happens to be fashionable; but what a nuisance it is. By preventing the driver from seeing any object which lies in the roadway just in front of his car it causes winor accidents; and by making the near-side wing invisible it greatly adds to the difficulties which confront the inexpert driver in traffic. These high bonnets of to-day lead to innumerable wings being damaged, and take from motoring a great deal of the pleasure which it should give. We suggest that the lowering and narrowing of bonnets in such a way that both wings can be clearly seen would be a reform that everyone would welcome. And think of the advertising opportunities in the slogans which unhindered vision would suggest!

## Technical Aspects

# One Carburetter Per Port 

## A Very Successful Induction-exhaust Arrange-ment-Big-ends Too Tight After 24,000 Miles!

## S

OME time ago I wroto regarding the difference between single and multi-cylinder practice from a carburation point of view. After analysing what appeared to me to be the main differences 1 offered the suggestion that a carburetter direct on the inlet port was probably accountable in a great mensure for the enormous power ascendancy of the "one-lunger" engine over the multi-cylinder kind. The obvious sequenter, of course, is a block of the "separate - inlet - port - per - cylinder" order and a carburetter per port.

Very attractive in the abstract, no doubt, but difficult to carry out owing to lack of space for four fairly large carburetters side by side with forward float chambers, and also owing to bad heat distribution. I admitted, in fact, at the time that a practical method of applying the principle in its best form had eluded me.

A correspondent, Mr. Nelson, of Dudley, wrote and suggested a way out, at once so ridiculously obvious and so admirably adaptable to all the requirements that everyone else had overlooked it. That scheme, with Mir. Nelson's permission, I passed on to Mr. A. F. Ashby, who is IT at making Riley Nines quicker than they ever thought they were going to be. Having considerable technical introspection be immediately recosnized its merits, and proceeded to put it into operation, as the Riley Nine engine lends itself particularly well to this layout.

During the past three or four months I hase made guarded reference to the debut of this arrangément at Brooklands, and, no doubt, those who have been looking forward in due course to hearing the results are wondering what is wrong.

With apologies to my friend "The Blower" for encroaching on his preserves I would like now to say a little more about it, and $I$ can assure those interested that there is nothing functionally wrong. It is simply a question of preventing the engine "blowing up," as they term it at the track, when tho foot is put down for long.

IT may be remembered that Mr. Asbby won the Duke of York's Troply at Guy's Gala Meeting in July last. On that occasion be was careful to keep his foot well up. Fach time he has tried the approved position some thing bas come unstuck, for there is a limit to the loading that even Riley Nines can stand.

He was down to race at the August Bauk Holiday meeting, but did not appear-he had "blown up" on the Siturday when gradually working up a newly assembled engine. I went to view the debris caused by a broken con. rod

## By <br> L. MANTELL

and learned that the trouble was caused by oil failure.

I saw the bearings; they were so starsed by this unfortunate mishap that the white metal in every shell was pulled completely over the sludge grooves, but, despite the great drag represented by such a condition before the con. rod could stand no more of it, Ashby's speed at the moment of the smash was 112 m.p.h. ! !

Just what it will be when the numerous borses expended in pulling the white metal over the sludge grooves are delivered to the back axle I do not kow, but I think that the answer to my portentous query a month or two ago-regarding the difference between a motorcycle and a car engine-is not far off.

AND now to anotber matter. Some two years ago I aired, for the first time in these columns, a pet obsession of mine that the existing methods of big-end lubrication were wrong, that oil-ways and channellings cut anywhere on the thrust faces of the bearings were incorrect, because they released instead of maintaining the film, and that, for reasons which I detailed at the time, absolutely unbroken bearing surfaces should, in my opinion, be maintained. I added that the oil should be introduced through a hole in the middle of the big-end surface 45 degrees in adrance of the top centre position, and drilled at right angles to communicate with an oil duct axially disposed in the centre of the crankpin.

I also suggested that the best method of oil feed and distribution to the bearing surfaces should be by means of a longitudinally cut groove extending along the face of the pin on each side of the oil hole, but stopping short of the crank cheeks by perbaps a quarter of an inch on each side, and taking the form of a kind of swallow Woodruff keyway carefully rounded off and feathered at the trailing edge, a la the Nichelle principle.

Such a distributing groove situated 45 degrees in advance of t.d.c. would be at a part of the journal which carries the minimum mean thrust, and is most of ten in a state of clearance.

By way of testing this theory I had it put into operation in my own car, a 12 h.p. special tourer four-cyllader Riley, for which I had a nitralloy crankshaft made.

Another obsession was that thickly white-metalled big-end bearing shells were wrong, so I got con. rods with bigend housings of such a diameter thnt, with the shells removed, there was just
room to "paint on," as it were, about threc-quarters of a millimetre of white metal, straight on to the steel.
The Glacier Metal Co., Lid., Ealing Road, Alperton, Middlesex, undertool to "paint" it so that it would not come off or erack, and Messrs. A. F. Ashby, of Mendon Central, London, fitted the crankshaft and scraped-in the metalled rods for me.
The fit was 100 per cent., aud it was left just a little tight in the impression that a week-end run would ease if off, but, as I have already described in an "Aspect" in October, 1930, the engine was still tight after more than 2,000 miles, so $\Lambda$ shby had it down again and eased it until only a very slimht bind remained.

SINCE that date I have been lying low as regards further reports and energetically trying to wear off that little stiffness. Up to now I have covered over 24,700 miles without haring succeeded in loing so, and at last, curiosity getting the better of we, I removed the cylinder block.

Two of the rods were only just free, but perfectly tight as regards the least sign of rock or end play. Of the other two, one required a pressure of about 3 lb . to push the piston over and the other about 1 lb .

Still feeling incredulous I took off the rods to see what the bearings were like, and found a most curious condition. On those which were free the surfaces were n dull greenish brown in colour all over, and quite devoid of any bright patches whatever when wiped dry. The other two, which were a little tight, had each an upper and a lower patch of a very light greenish shade, but the remainder of the surfaces were like the first two. In short, the first-mentioned bad been perfectly oil borne and the other two -had I had the patience to have covered another 20,000 miles or so-would, no doubt, bave arrived at the same state.

I have never before seen big-end bearings evenly coloured all over in this curious manner, and can attribute it only to a practically perfect oil-film insulation, which, in my opinjon, would not have been the case had there been any channelling in the shells.

The super-excellent fit of the bearings had, no doubt, much to do with it and also the nitralloy shaft. I am much too long in the tooth to shout "Eureka!" or to feel like the cow in " Hey Diddle-diddle" ns a result of one test, but I caunot held being a littlo pleased to think that perhaps there is something in my obsession. Meantime, my engine is at Ashbys again, enjoying the utterly unique experience of having some of its big-ends eased after 24,000 miles.

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

## Other

## Ensuring Good Contact

WHEN carrying out any torm of elcetrioal wiring on a car it is important, more especially in the case of earth-return systems, to make sure that effective contact is established. Merely to bare the end of the wire and to twist the strands back on to themselves in the form of a loop through which a bolt may pass is not really sufficient, and should the bolt head turn there is the risk that the strands of wire may be cut.


The proper course to adopt, therefore, is 10 fit terminals to the wires. Suitable turminals can be cut from thin shect luass or copper, and they should be shalued rather like an ordinary plain washer with a lug on it. The insulation of the wire is stripped back only for a short distance and the nire strands mead out fanwise the wire strands spread out fanwise. They must be
seraped bright and then laid on the lug of the terminal to which they are sccured by soldering.

When using armoured wire it is important to strip back the armouring to a safe distance from the terninal beause, in the ense of single-pole systems. the armouring might cause a direct short to earth if it catae into contact with the terminal.

The proper way to secure the armouring is to form a loop of the last coil, after the manner shown in the accompanying sketel. If the end is pulled light and then cut off close, there will be no risk of uncoiling. Fiunlly, clectrician's tape of the pure rubber kind should be used to insulate the last iuch or two of the cable.

## For Morris Owners

OIL leakage from the overhead eamshaft cover of Morris Minor and M.G. Midget engines, after the car has been in use for some time, may be found to be caused by the cork gasket having bedded down to the level of the nheminium rivets which hold it in place, thus, of course, no additional foree applied to the lolding uuts will compress the gasket.
It will be found that the rivet hends can be cut off quite readily from the top side and the rivets punched out, taking care, of course, not to damage the cork in the process. In all probability the gnsket will remain quite securely in position without the rivets, but if it shows a tendency to come away, a touch of Secotine or one of the special jointing compounds will secure it effectirely.

## Readers

THE choice of a sparking plus or 5 s. is offered for every reader's hint published in this feature. No hint should exceed 200 words in length ; if necessary a rough sketch should accompany it, and the sender must indicate whe ther, in the event of publication, he prefers 5s, or a sparking plug.
> $T$ HERE is a guinece ecch month to be wan for the best "Idea" published during the month. The winner's name and address, together with the tille of the "Idea" and the date on which it was published. will be annourced in the first issue of the
> next month.

## An Emergency Repair.

I$F$ the union nut of a petrol pipe nipple is screwed un too tightly, there is the risk that it will split just below the shoulder, thus making it impossible to secure a proper joint When a new nut is not readily obtainable, an emergency repair can sometimes be made by taling a small strip of metal a little narrower than the width of one of the flats and bending its two ends over at right angles in a manacr which will cause them to grip the two opposing faces of the nut and thus close the crack.


The strip must be soldered into place, and solder should be run into the crack, taking care, of course, that it does not fiud its way inside on to the threads.

A union nut repaired in this manner can be tightened quite effectively, nad mas remain good for a considerable time. It is advisable, however, to obtain a new nut as soon as possible.

## When Decarbonizing.

$I^{T}$T is always most advisable when decarbonizing an engine to protect the cylinder bores and the water passages from carbon dust, and the usual method of doing this is to stuff pieces of rag or paper into the bores and the water holes in the eylinder block.
It is suggested that much more effective protection can be obtained by the use of corks shaped as necessary to fit the various orifices. In the case of a Wolseley Hornct every hole can be stopped by the use of the following selection of corks:-

1 vial cork.
144 oz . corks.
28 oz. corks.
21 h -in. diameter bungs.
$11^{1}$-in. diameter bung.
42 -in. diameter shives.
The bungs can be cut with a hacksaw and a kuife to fit the obloug water pas-
sages, whilst the shives should be filed to fit the cylinder bores and be pushed in flush with the face of the cylinder block; the ascending pistons will push them out when the work is done.

With regard to other makes of car, owuers can compile their own list of the number and type of corks required, and these can be obtained either through the local chemist or from a dealer in cork

## Rear Light Warning.

COME types of rear lamp have a Smetal body io which a single celluloid panel is provided for number-plate illumination. This arrangennent complies absolutely with the law, but the driver, from his sent, bas no means of knowing whether or not the lamp is alight It is claimed, however, that, if the lamp is fitted towards the off side of the car, two or three g -in. holes drilled in the off side of the lamp casing will enable a small amount of light to be thrown on to the road, so that by looking backwards out of the window the driver can be reassured regarding the lamp.
With a more certrally placed lamp it might be a good plan to drill the holes in the top, so that the light is thrown upwards, when it may be reflected in the rear window, in the case of a saloon. With either arrangement it is a good plan to fit a small piece of clear celluloid within the lamp body to prevent the ingress of water.

## Removing Brake Shoes.

$T$HE springs which hold brake shocs in position on the pirot prins and cams are usually very strong, and some difficulty may be experienced by amateurs in unhooking them when the shoes have to be removed. As the springs are of the close-coiled type, it is not possible to grip a single coil with a pair of pliers, but it will usually be found quite effectire to push the blade of a fairly stout serew-driver between the coils of the

spring elose to one end. 'The serewdriver is then pulled sideways in a manner which will stretch the spring and thus alluw its eye to be lifted off the hook formed on the brake shoe. A similar process is, of course, adopted when reulacing the springs.

Care must be taken to aroid stretching the spring beyond what may be termed its elastic limit, as this will, of course, have the effect of reducing its strength, so that when in use the brakes may not be returued fally to the "off" position.

## Along the Banks of Father Thames

## Where You May Bathe

Beautiful Places Between Staines and Wallingford Where You Will Find No Irksome Restrictions and Plenty of Room for All



Tow many motorists of the Home Counties realize that within an even－ iog＇s easy＂motoring reach＂of the Metro－ polis there are 50 gleaming miles of silver riser，winding placidly past stately man－ sions and close－clipped lawns，and rippling beneath graceful trees and nodding wil－ lows？How many know of the quiet reaches where one may drise a car to the water＇s edge and bathe in idyllic surround－ ings？

Between Staines and Wallingford alone these delectable spots abound－liunnjmede， Wrassbury，Dorney，Bray，Cookham， Medmenham，Hambleden and Henley．Or try Vargrare，Shiplake，Mapledurham， Basildon，South Stoke，Moulsford，or North Stoke．

Parking fees are rarely asked on the banks of the Thames，and each riverside tomn or village discloses fresh delights with their picturesque inns，graceful spires， tumbling gables and mellow colourings．

Every winding reach opens up a bather＇s paradise．During the glorious weather of last week Londoners，＂who knew，＂night after night made moonlight visits to farourite reaches where 40 years ago those wise Victorians sousht refuge from the tur－ moil of dusty streets and found romance and repose on the rippling waters of London＇s river．
Boating in those days put the big kick into the river，for bathing then was considered all but indecent，unless that atrocity the bathing machine was at hand to still the harsh voice of Mrs．Grundy． To－day when you go up the river you will find the ofd lady is not at home．Boys and girls and their elders un－ dress more or less where they like，jump in，swim， splash about and sunbathe just as their fancy dictates．

And it is not only for those who bathe that this district appeals．Its inns and hotels， its hills and dales，its quiet backwaters and sequestered glades，are cool and calm and pleasant，whilst the bustling stream of modern traflic jostles along the great highways or the fome Counties．


> We ioslcome letters for publication in these columns. No anonymous communications will be acceptcd, tut wrifers muy use a nom de plume. To ensure publication in the next issue letters should be addressed to the Editor, "The Light Car and Cyclecar," $5-15$, Rosebery Avenue, London, E.C.1, and should reach us on Monday. Please write only on one side of the paper and leave a wide margin.

## A Plea for Simplicity

The onening sentence in an Editorial article last week under the heading "Still We Are Progressing" states: -. Is year succeeds year it becomes more and more ditlicult to foreshadow really practical improve-
Are There Too meuts in the design of light cars." Mauy Frills? You further say: "Never in the history of light cars hare thes been more ambitions or more practical"

I should like to join sour correspondent "Pre-war" and echo his remark: "What we want is surcly simplification and a design which gires easy maintenance.'

J'resent-day cars are certainly "ambitious," but a long way from "practical."

My own car is six sears old, and I want to buy n new one, but after a careful scarch I can only find "improvements" which are so "impracticable" that they would make a "pre-war" designer blush for shanc. May I give a fer examples?

Very fers modern cars can hare any renqir made to their clatelies without remoring such ehings as elateh housings, gearbores, and eren the bact axles.

My local antage man showed me я car a few days aso with a broken cluteh bolk He had to move all the parts nentioned alore to put in a new one. The new bolt enst 15, but his bill for time should save been 50 s. He could, however, not charge his client this amount. In 1912 I drove a $10 \mathrm{~h} p$. car, the clutch of which could have been removed complete in five minates.
This was 20 years agn. "Still we are progressing." I cannot arree with you entirely.

Mrsister has recently bought a new de luxe light car nt $£ 200$. The first time the ear was Jriven at night the lights fused and burnt out the dipning mechanism. She
has had two new dynamos and, I think, three new batteries inside six months. Having eovered 300 miles the car developed clutch trouble, and anyone wanting an afternoon's "entertainment" should try to get at the clutch ou this pa:ticular car.

The vehicle is used only for shonping and fhort social calls; I contend that a modern car fitted with coil ignition is totally unsuited to this work. The batery never gets a chance to he recharged in the short distance travelled. Coil izuitson, however, would be considered au "improvement" on the magucto. Again, I cannot agree.

Focus" mentioned last week a commercial traveller who covers 25,000 miles per annum, and wonders whether these figures are nn exaggeration. I think not.

A friend of mine often does 600 miles per woek in $\pi$ small car. Last year he did 2G,000 miles in 11 months, and this year has exceeded $25,000 \mathrm{am}$ is holding on to the remains of his car until nearer the Show. Here is the rub, however. His cars are scrupped every 12 months !

The manager of a large garage told me recently that very few modern cars would exceed 25,000 miles without costly overhauls. I think, however, that one could point to mang cars built 10 or 15 years ago that have excecded Gu,000 miles and are still going strong.
In spite of the number of different makes and styles at present on the market, I still think there would be a good sale for a car made of first-class material, of simple design, casy to maintain, but without all the modern frills and furbelows, which are of little use to the practical motorist. He can do without pajer racks, nipe lighters, ashtrays, nnd pile carpets, but he must have a fexible engine, accessibility, and independently operated brakes, which the modern car sadly lacks.

Setad.

## Are Manufacturers Pessimists?

Very mang modern ears carry a transfer at the back. Presumably this is intended to assist other road users in identifying the car from the rear, and is, in fact, a form of advertisement. So far, so good. What

## Transfer

Positions. nearly atwors place This of course the oft side. This, of course, gives a fine view to the drivers of overtaling cars, nind one is foreed to the conclusion that the manufacturers expeet their cars to be dassed more frequently than thes pass others.

Ferhaps the expectation is jnstified, but it I were a manufacturer I should place my transfer on the near side. so hat other drivers would be in no doubt os to what had luassed them!
J. Ingheby Joens.

## Open Tourer Prices.

I do not think Mr. V. Goodwin can argue succesafully that tourers should be sold at cheaper prices than saloons. Es admits that the last-named have a much better sale; n.34
hence, on the principle that the greater the demand for an article the lower the price at which it can be sold, touring cars must cost more, especially as nowadnys they are almost as espensive to maxufacture as closed bodywork.

Join $A$ ation filitcher

## Horseshoes-

I wonder if " Focus" is right in saying that horseshoe nails are often responsible for punctures? I nsk because in the past 11 years I have motored over 80,000 miles,
> -Not Always For Luck! nunctures I have had has been caused almost wholly in rural areas, and, to nunctures I have had has been caused
by such an agent. Doubtless, I shall promptly have a trio from this canse.

Personally. I find that nine ont of ten punctures are the result of those pervicious, flat-headed boot studs which sit up like little dogs and beg for lifts. I am told that they are extensively used by the Army in the boots of O-ranks. and I live within nine miles of a sarrisou town which would account for their prevalence.

Marmaduee.

## Wise motorists won't decide until they've tried the car with "CUSHIONED POWER"*



Not only is Motorine de Luxe officially approved by M.G. for your car but it is also officially advised for

## ALPA-ROMEO HNVICMR

 BENTLEY HAGONDR DELAGE TAEBOTFollow the lead of the world's greatest sports cars.
There is a grade for every car and motor cycle. Use

by appointment to H.R.H. the Prince of Wales
The grade for all M.G. cars all the year round is Motorine C de Luxe. From bulk 2/- per quart, $7 / 5$ per gallon. Or costing even less- $1 / 9$ per quart in 5 -gallon drums. Have you any lubrication difficulties? Price's Technical Advisory Bureau is at your service. Write for a free Motorine Oiling Chart for your M.G. Midget of a new simplified design. Price's (Dept. L.C.22). Battersea, London, S.W.11.

## OOR READERS' OPINIONS (contd.)

## What India Thinks

I picture with growing apprehension many little incidents which are bound to occur when I come home on leave next year after a $3 \frac{1}{2}$ years' absence and take the wheel of a car. Conditions will be very much more
A Burma
Reader's Worry. last occasion on which I came home, as the brains of administration seem to have been directed more on affairs concerned with motorists during the past two years than they were in the whole of the previous 30 .

The new laws, parking regulations, automatic traffic control, one-way traffic and so on will all contribute towards my discomfiture, which will be the more acute on account of the lack of uniformity which, according to sour contributor " Focus," exists in all motoring matters.

It would be interesting to bear of the experiences during their first month after landing of some of your readers home on leave during the present year. Junglewallah.

Burma.

I would like to draw attention to the seemingly high prices charged for British cars in India. Let us take the case of the world's cheapest light car, the Morris Minor two-

## The Price <br> Question.

 seater, costing $\mathbf{f 1 0 0}$ in England. The price fixed in Lahore by the agents for this car is Rs. 2,625. Taking the rate of exchange at Rs. $13 / 8$ per $£$ sterling, we see that the cost of the car in question in England at Indian rates is Rs. 1,3j0.I am aware that there are heary duties on cars imported into India, also freight charges must not be lost sight of, nor the agent's profit; but is it fair to the ultimate purchaser that he should have to pay Rs. 1,275, almost double the price of the car, to cover all this?
For approximately another Rs. 300 one can purchase a six-cylinder $24 \mathrm{~h} . \mathrm{p}$. car of American manufacture.

In conclusion, I would like to say that $I$ am $n$ very satisfied owner of a two-seater o.h.v. 1931 Morris Minor.

Punjab, India.
K. A. Tylfar.

## Three-wheeler Design and Cost.

One must admire the untiring efforts of The Light Car and Cyclecar in the interests of chenper motoring, but I am afraid that the ideals are far from full realization. The

## Future <br> 'rypes.

 article on the German Goliath was full producers is commendable. British manufacturers seem to have accepted unquestionably two doubtful theories, both of which have been set aside by the designer of this masterpiece.These are:-(1) That a big-twin four-stroke engine is an essential to a three-whecler; and (2) that the two wheels should be piaced at the front. I do not see, however, why the engine should be mounted behind the seats, when it might add a steadying influence to the steering; but 1 agree with Dr. Stuart that the risk of tipping is minimized.
'The car we are waiting for will be propelled by a 500 c.c.
air-cooled engine driving independently sprung rear wherls and steered by a single wheel at the front. It will carry an open or a closed body, be thoroughly up to date in appearance and equipment, and cost about $£ \overline{10} 0$. Y. Knotr.

## Why Not Rear Engines?

At about this time of the year we begin to wonder how many of our dreams will be realized in the models for next season. The details of the 1933 cars so far published have not included anything which was not

A Chance
for Designers. standard in larger cars for 1932. Whilst one is grateful to manufacturers of lisht cars in particular for the general excellence of modern products, there seems to me to be a wide field in small car desimaing for something really revolutionary.

Your associated journal The Motor has published recently


THE END OF A vivid pencil picture by Bryan de Grineau showing how Freddie Dixon and his mechanic A MIGHTY - volplaned over the hedge at Quarry corner during the T.T. last Saturday. Dixon had led, the EFFORT. race for hour after hour, and his accident ended a mighty endeavour.

## OUR READERS' OITNIONS (contd.)

a series of amateur ideas oi what a modern ear shonld be Most of the desigus were rearettably unly and all conformed with standard practice in leaving the engine in its accepted position.
Personally, whilst not attempting to design a motorcar, I think the time will come when ears will be divided roughly into two classes. Class I will be touring cars, embodying comfort, reliability, cconomy, good looks and case of control. And it is in the last-mentioned direction that my imagination runs amok
Why not a light car with the engine at the rear, driver with full riew of the front wheels, no smell, no noise and more accommodation for passengers and luggage? Why not a small car on the lines of the l3urnes streamline car? Why not a stecring riempoint like that eujojed by a long-distance cosch driver?

There will remain Class II. composed of sports and semisports cars, the drivers of which, not unnaturally, like to see an expanse of bonnct stretching along the line of vision, and who care nought for noise provided that racy appearance and performance predominates to stimulate "that Brooklands fecling."

Is there not a serious problem to solve if makers are to retain their sales? Cars for years'past have not changed so very materially. Refinements hase appeared by the score, but the drawbacks of noise, lack of space, wind resistance, plus inaceessibility, have not been eliminated.

There would surely be a wide market for an engine in
the logical place-at the rear-with consequent improvement in touring performance.

Be modern" is the kejuote nowadays. Ijeing modera meaus looking alend.

Join W. L. Wills.

## CONDENSED CORRESPONDENCE.

Writing on the subject of the TT.T., Mr. Roger Smith asks "Why can't we have a similar event in England?" Wo nsk the sauc question under "Popics of the Day," Mr. smith!
In reply to an inquiry for the address of a car-breaking ward in the midlands, published recently under " Readers" Wiants," Mr D. Dorringtoh writes to say that Messrs. A. Fletcher have a yard at G3 aud 89, Dartmouth Street, Birmingham.

## READERS' WANTS.

Standard Ninf- An instruction book for the 1025 model. -V. B. Shamuon, 53, Parkside Way, North Iarrow, Middlesex.

Metsize-Dransimaw.-An instruction book. Date of car not stated.- 1 . G. Culten, 5 , Lafone Ioad, Feltham, Middlesex.
Singer Junior.-An instruction book and any useful hints relating to tho 10:\% Singer Junior salonn- J. J', 'Towules, " Eransdale," $3 S$, Westdale Gardens, Burnage, Mnnchester.

## Questions

Asked

> Queries of general interest will be answered under this heading, velope must be enclosed for a reply by pose.

Remote Control--H.A. (London, S.IW.).-The term "remote coutrol" is used in connection with a gear change in which the actual gear lever is not mounted direct on the box but is carried on a bracket cxteuding from the box and works through the medium of rods or levers. The advantaze of the system is that the knob of the lever is broumht readily to hand, but has a much smaller travel than is the case with a long lever working dircet.

Worn Valve Guides.-N.S. (Berwick-upon-Tweed).-As you are satisfied that the ignition system is in perfect order and that the carburetter is clean and is set as recommended by the nakers, we imagine that the rather diffenlt starting and crratic slow running of which you complain is due to worn ralve guides. This is quite likely, in view of the fact that your car is four years old and has covered 70,000 miles. The only cure is to hare new guides fitted. At the same time we advise you to replace the valves as in all probability their stems are considerably worn.

Iamp Bulb Sizes.-F.F. (Grantham).- $\Delta$ s the G-volt dynamo of your car gives a full charge of 8 amps., the most jowerful headlamp bulbs that you can use without discharging the battery are 18 watt gas-filled. These will consume 3 amps . each, leaving 2 amps for the side, tail and instrament lamps, the bulbs of which should be of the 3 -watt type. In the summer, however, it should be quite safe to use 24 -watt headlamp bulbs (which consume 4 amps. each), providing you cover a fair mileage in the daylight to make up for the discrepancy of 2 amps . when the headlights are in use:

Sticking Ammeter.-F.A. (Burnley).-The fact that the haud of your ammeter sometimes remains pointing at 10 amps . charge, even after the engine has been stopped, suggests a fault in the instrument rather than in the rest of the electrical gear of the car. In all probability there is a little undue friction in the pivot bearings, and you may find, if sou tap the dial with your knuekles, that the hand will spring bnck to zero. We do not advise you to attempt to rectify the troable yourself, however, as an ammeter is a rather delicate instrument and it is best to leave repairs and adjustments to the makers.

## and Answered

Measuring Cylinder Wear.-V.O. (1)arlingfon).-Inside callipers cannot be relied upon to give a satinfactory indication of cylinder wear as this would have to be very excessive indeed before it could conclusively be shown by this tool. The proper method is, of course, to use an inside micrometera rather expensive tool. Your best course would be to have your car decarbonized at some competent service station and to ask them to check the degree of wear when they have removed the head.

Tracking Ifront Wheels.-S.II.S. (Sheflield).-If you suspect that your front wheels are out of track you should make up the simple gauge shown in the necompanying illustration. You will see that it consists of a lath of wood sliphtly shorter than the track of the car with two further laths bolted to the ends and sloping outwards slightly, the ends of these coming approximately at hub level when the gauge is placed on the ground. One of the end pieces can be attached rigidly, but the other should be adjustable
To test the track of the front wheels, the prnge should be placed in front of the nxle so that the rigid end piece is just touching one of the rims, when the adjustable arm

should be moved so that its end touches the corresponding point on the rim of the other wheel. Without disturbing the ndjustment, the gauge should then be transferred to a similar position behind the axle and any discrepancy in the distance between the rims before and behind the axle noted. Actually, the measurement bchind the axle should be either the same or not more than ${ }^{3} 6 \mathrm{in}$. greater; that is to say, the wheels may be either dead parallel, or may toe in to an extent not greater than the figure mentioned. On no necount should the front wheels toe out.

You might also find it worth while to check the nlignment of the front axle, which is hest done hy measuring the distance between the front and rear hubs on each side of the car by means of a length of string. The mensurements should, of course, be equal. Needless to say, these tests should afl be carried out with the front wheels pointing dead straight ahead.

# 6 <br>  <br> 0 

 when you he think inferior oil.

Mobiloil" AF"-atorward stepin modernlubrication. Scientilically blended and refined to meet the lubrication needs of "crrain types of engines, Mobiloil "AF" will give : ( 1 ) quicker start-ing-saving your battery; (2) Less carbon and wear-saving maintenance costs ; (3) Immediate circulation from cold-saving your bearings ; (t) Smoother running. Consull the Mobiloil Chart al jour Garage.


Only $12 \%$ of all motorists in Great Britain use unbranded oil Ask yourself this question: Why do motor manufacturers warn you so emphatically against using inferior oil? The answer obviously is-Because inferior oil cant stand up to its job. It puts extra strain on every working part. And sooner or later you are faced with heavy bills for big-end failures, worn cylinders and other repairs. That is mhy more than 600 motor mamufacturer's say - Use Mobiloil. Of no other oil can this be said.
Mobiloil is made by the oldest and largest firm of lubrication specialists in the world. It has exceptional stamina. It stands up to high speeds and temperatures - and reduces friction, carbon and wear to the lowest known minimum.
Use Mobiloil in jour car or motor-cycle. For the correct grade consult the Mobiloil Chart at any good garage or service station.


Read " The Standard Car Reviex."
price $3 / 6$ a yblisthed monthlys. Serd postcard for 1933 literature to:- The Standard Motor Company Limited, Canley, Coventry War End Showrooms:- The Car Mart Ltd., 46-50 Park Lane, London, W.1, and 297-9 Euston Rd., N.W. 1


IN
NEWTOWNARDS.

A fine T.T. photograph of cars swirling out of the Toun Hall square into the Comber Straight, where the narrow street re-echoes the snarling exhausts as the machines gather speed. Norman Black, last year's uinner of the race, is seen in front, with Earl Howe (Alfa-Romeo) getting into position to pass.

YXYMLST London and other small VV places were gasping in the throes of a beat wave on Saturday, the lucky folk in the T.T. grandstand in Ould Oircland were buttoning up their coats to the neck: the wind blew cold from the Mountains of Mourne (local colour). Enthosiasm, bowever, was at fever heat and if ever a crowd roared it was when Whiteroft flasked over the line, the winner. The Rileys were incredibly sure and speedy anc, of course, they came in for the licn's share of the honours; but in the general rejoicings wo must not forget the fine show which the other cars put up snd the stupendous bad luck which attended some of their efforts.
Hall and Low kept the flag flying wonderfully, however, the former beigg third in the race and the latter putting up what is surely one of the finest shows of modern times by taking his unsupercharged car non-stop right through the race to fuish tenth at 60 m.p.h.

Local enthusiasm was intense and one felt no doubt at all that there will be a T.T. in 1033. As I prophesied, speeds were very high. This was duo primarily, I think, not to the nbsence of wings and lamps, but to the wonderful condition of the course. There wasn't a bump anywhole, and the surface offered a grip of which drivers wera able to take full advantage. When a ear skidded-well, nothing would have stopped it.

By the may, the proprictor of the famous butcher's shop at Comber might well adopt the slogan, "This is the shop-wou've hit it!" in order to attract and keep his customers. Quite a lot of potential customers hit it on Saturday.


Freddie Dixon thought he was still on a motorcycle - and cornered accordingly.

They do say that Freddic Dison thought be was still on a motorcycle and took all the corners on two wheels -hence the milt in the coconut.

I noticed that "The Dragoman," columnist or gossip writer to the Daily Expuress, was immensely superior on tho subject of the T.T. last Monday. He considered, after mature consideration, that of all games, this game of motor racing was not worth the candle. motor racing wins not dreadful thing that He thought it a dreadfulthing that
sclfish men should roar about in a
manner that causes harm to the lookerson if a car runs amok.
The answer is, I think, that said lookers-on love it.
. . . not worth the candle . . .
The new scoring system was definitely good. Not only could one determine whether or not a car was running ahead of or behind its handicap schedule, but also the actual time in minutes and seconds which separated each of the first cight cars. The score board was amended every half hour and the new figures were put up promptly and in readable form.

Beleast went quite mad about the whole race durigg the week; in fact, the enthusiasm swelled to almost alarming proportions on Friday.
Why can't we have a road race in this country!

A NOTLLE treasure hunt. This time Aby the Bugatti Owners Club, on Sunday, September 11th. This promises to be a bunt out of the ordinary, and the clues will be hidden in a short story which will be handed to the competitors at the start. Instead of chasing about all over the countryside collecting fresh envelopes the bunters will chase about collecting extremely odd articles. All owners of Bugattis are invited to compete and members may bring as many friends as they liko.

The entry fec, including the necessary man, is ws. hd.
The start will be from Virginin Water at 11 a.m. Full particulars from the bon. secretary, Mr. E. L. Giles, 2 Queen Street, Mayfair, Londou, W.1.

DURING the week some excitement has been caused by the B.P. advertisemout stating that the fuel used in the T.T. by Whitcroft was "not obtainalile from garages." The T.T. reas. say that "only commercial fuel" may be used in the race.

One must remember, however, that not only ars the tanks of the cars filled by the elub, but their contents are analysed after the event!

TFIE 1,500 c.c., Maserati, which has not yet been seen in this country, won the 1 -litre class of the recent Comminges Grand Prix at an average speed of $7 \overline{\mathrm{~J}} . \mathrm{J} \mathrm{m} . \mathrm{p} . \mathrm{h}$. , as against Zehender's $57 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. in the Alfa-Romeo which won the general classification. An Amilear was second to the Maserati and auother Maserati was third.

IT$T$ may be remembered that I mentioned in these notes a week or two ago an interesting Shelsley-type model known as the Monaco, which put up an excellent performance at the recent Klausen Hill-climb, driven by one G. Aymini, of Turin. I was struck at tho time by the excellent speed of the car, which created quite a sensation at the meeting. Aymini's time in the 1,100 c.c. class was 1 S mins. 39.4 secs. The fastest $1 \frac{1}{2}$-litre sports car-a blown Alfa-IRomeo-took over $19 \frac{1}{2}$ mins., and the $1 \frac{1}{2}$-litre racing class was won in only 17 mins. 53.6 secs. So the Monaco goes.

Glaucing through Moto Italia the other day I came across a description of the car, and the few details herewith (gleaned with incredible linguistic difliculty) will be interesting

The car was designed by a well known Turin enginecr, Augusto Monaco, who certainly has the right ideas on power-weight ratios. The Monaco is in ло scase a modified G.N. chassis, and is built right from the start as a real fast motorcar.

It is considerably crab-tracked, has frout-wheel drive and is powered by a Gue suecimen of our old friend the 998 c.c o.h.v. twin-cylinder J.A.P. There is a massive aluminium unit-construction of engine, gearbox and frontdrive layout, and the engine is set well back in the chassis.

Siennor Monaco decided that his cylinders should receive an excellent blast of air and produced an immense fan, the


The T.T. Moore's Frazer-Nash and Balls's Crossley passing the spot where the Talbot-Midget collision took place. Note the tyre marks.
shaft of which is driven by a belt from the front end of the propeller shaft. A most ingenious kick-starter is arranged in the front of the car.

The car is extremely low and "right" louking aud the driving compartment has no sides at all. It is a single-seater of course, and the rear, which presum ably carries the petrol tank, is beautifully streamlined, and has a large fair iug behind the driver's head.

Plunging deeper into the deluge of liquid Italian I gather there are fire speeds-8.64, 9.52, 10.5, 12.78 and 17.33 to 1 -which seem about right for bill-climbs-the be-all and end-all of the car.

Moto Italia reports that at Monza the Monaco achieved $110 \mathrm{~m} . \mathrm{p} . \mathrm{h}$.-mean speed over the flying kilometre, mark youso it would appear to be an Italian edition of "The Terror."

MG. Midgets, a Magnn and two kileys appear in the first entry list for the Phoenix Park mecting (September 17th) of the Irish Motor Racing Club. Seventeen cars have been entered in all, and the meefing will probably be run in 1,100 c.c. and over 1,100 c.c. categories.


The horticulturists: during the race T. G. Moore (Frazer-Nash) shot backwards into the same garden that H. C. Hamilton occupied with his Midget in practice.

## CLUB ITEMS

SPORTING OWHER DRIVERS' CLUB. A pymkhana will be hold by the olub on thiohon. secretary, Mr. J. Can Thorowgood, The Wood, Crowthornc, Berka.

MIDLAND JOWETT C.C Tho onnual reliability trial will be held on Sunday. Septembor 18 lh . All Jowett owners in
tho Midlanda aro invited to competc. Full par tho Midlanda aro invited to competc. Full par ticulars are nvaliable 1rom the hon, gecretary Brrmingham
S. JOWETT L.C.C.

A club rally will be held on Sunday August 28th, near Midhurst, Susscx. All Jowett owner
in tho London area will be welcome, and full marticulars aro arailable from the bnn. secro Lary, Mr. E.

```
            FORTHCOMING EVENTS
            August 27th.
London Fagle M.C. Weck-cnd Camp at
    Mshridgo Park
Iondon M.C. Cuplasts M!sstery Run,
Norwood M.C. Secectary SMm. Nun to
Triumph M.C. (Northern Brancl). Troa-
    suro IIUnt
Midiand A.C. Shelsley Walsh Amatcur
H|ll-climb.
Middlesox County A C. Onkes Campetillon.
M.C.C. MLIgh-specd TriaJ, Mrooklands
M.C.C. Nl|gh-specd Triaj, Brookla
Eastbourno Concours d'Elegance
Sentember 10th.
B.A.R.C. Brooklands Mceting.
    Lcwes. Sentember 17th.
Brighton and IIoro M.C. Spleed Trial| on
Irish Motor Racing Club Raco Mocling
    Mbocoir Park, Dubly.
The Light Car Club Buxton-Buxton Trlal
B.R.D.C. 500.Miles Faco
```


## ULSTER RALLY RESULTS

The followine aro tho prize-winmern in the Dlster Motor Rally, which concluded on Tuesday. First prizo (c100): Wm. M, Mullan (Speed Tvicnty Alvis). (Starling from Belfusta) Tumu orror al secrei check, $12-5$ seca.
Socond prize ( $\mathbf{C 5 0}$ ): H. Lanlin, of Bellast ( 16 h.p. siandard Swallow). Tiruc error as Third prize ( 20 seca.
Third prize ( $\boldsymbol{( 2 0 )}$ ) J. Stanley Orr, of Bellast (Austan Seven). 'limo orror as secret chock, 7 Fourth prize ( 810 ): D. M. Mealey from
London (12 b. supercharged Invicta tourer). Tuna error at secret check, 9 seca.
Fifth prize ( $£ 5$ ): J. W. Walker, of Bellast if h.p. Rover). Timo error at aceret chock 14 socs.
Tho ladies' Cup was won by Mrs. J. W. Shaw. of Beliant, with a 9 h.p. Triamph, while Mrs in bor blue M.G. Magné, having lose only 5 rarka oal ol 500
Tho Tcam prize, valucd at ninc guincas, whe won by a team consisting of T. Barler and McXulian (Specd Twenty Nivis) and Wm

## TRIUMPH M.C.

The Nortbern branch of the Triumph Motor Club, which has recintly been formed, will bold a ireasure hunt on Sunday, Angust 2 ecib. The course will bo about 35 miles in length. Durnorios of dances, and it is hoped to form a dance band from emongat club members.

## Forthcoming " SUNBAC."

Forthcoming events announced in the Angust issue of "Sunbao News" ara an Eveniag Car Trial on Wednesday, Suptember 21atiand tho Veteran Vehicles; Run has becn posiponed, and will bo beld in Noyember on a dalo not yet decided
In Tho Lipht Car Club Beon Buxtoa Tral. the Welsh Onoday Trial of tho Luverpool M.C. and Cha London-Gloacester Trial of tho N.W. Londan

## Th

shiro Trial, hold on July 2nd and 3rd Flrat.class Awards: ${ }^{\text {G. Orford }}$ (Austia) R.J. Richardson (Anstin), Jiostork, B. A Arory, A. Langley. J. R. H. Baker M. M. Mid Athing (Morganl and E. R. Oifver iClynol
Secandolass Awards: J. B. Fruin (Singor) and II. Laird (Morgan).

How may the ordinary owner-driver judge the qualiaof the oil he uses in his car or motor-cycle by the experience of the " aces " of th
and the air, for the supreme $n \cdots$ or any lurinatine a
under the
RESULTS attempts ;
If oil wis
tons more day-to-day 1 be no fear of Herein lies They are more not only of hun and especially c
C. C. Wakefiel. in a long series. the air, which haw oil. These succe Wakefield Compar. firm. By its many itself a world-wide $n$ maintaining the re, products abroad.

A noteworthy feat u oil used was in no case s New world's records ha great flights successfully of Castrol oil identically ordinary private owner station.

The great sporting sue Castrol oil are thus convi purity and reliability of the use.

## Recommended E

Castrol lubricating oil is sole recommended or approved by 1 of cars, motor-cycles, women and motorboats.

There is a wide choice of grade ments of every machine on the $\mathbf{n}$ and for summer use.

Despite acute trade depression an from foreign firms anxious to secu British market, the sales of Castro 1 a new record for the tenth successive of the Company.

## First Atlantic Flight

In I9I9 Castrol was chosen for ti Flights by aeroplane and airship. In possible the first light aeroplane Atlantic $\mathbf{f}$ Leader Hinkler's 2,000-mile crossing in al aeroplane is one of the epics of British av,

It was the first light aeroplane flight fr to London, the first solo flight across the Sc and the first West-to-East South Atlantic

Another historic Atlantic success wa: formation flight across the Atlantic in January Ten flying-boats of the Italian Royal Air the command of General Balbo, took off from Bolama in Portuguese Guinea. Sev, later they had crossed the Atlantic and lank Natal in Brazil.
A noteworthy feature of this remarkable acth is that although the flight was carried out in machines under the ragis of the Italian Governme oil chosen for the venture was the product of a 1 farm.

## World's Records

was with Castrol that Britain won new world's Is last year on land and on water. This oil has 1, too, in victory after victory in classic races here, Continent and abroad.
3 I alone, over 60 World's and International Class were established with machines lubricated with il, and it has played its part in many of the bant flights of the year.
has ever yet exceeded 200 m.p.h. without the col. It was used in the late Major Sir Henry Golden Arrow," and it was used, too, in Sir mpbell's "Blue Bird" when he achieved a land speed record of $253 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. at Daytona. I the aid of this oil that Mrs. G. M. Stewart st $140 \mathrm{~m} . \mathrm{p} . \mathrm{h}$.-the fastest speed ever by a ver-and covered 100 kilometres and faster than any man! oed ever attained by a baby car was securThis was the oil used in the M.G. Midget E. T. Eyston raised the international ord for baby cars to $118.38 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. at 'oo, was the first to exceed $100 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. or 100 miles in one hour in a baby car, ear he broke no fewer than 20 interthis class, and on every occasion his e lubricated with Castrol.

## Events Won On Castro

mentor classics at home and abroad s for Castro users-for example, it Brooklands last October (the th long distance) first and second this oil. The winning Bentley t higher speed than the world's
man and Belgian Grand Priv bus Italian I,000 Miles Race, tool ; whilst there have been ' over the world. , although less spectacular, and Continental trials in ubricated with Wakefield abr
tres trial, for example, ers of ten first prizes, tone, who successfully miles in her Riley Six, most of the important

## Castrol oil was the


$\underset{\text { (at } 74.23 \text { m.p.h.) }}{\boldsymbol{R}}$ the World's Fastest Oil a astrol product, motorists should cabinet bearing the Castrol trade mark.

## AROUND THE TRADE

The largest light car luyers" is the claim made by Rowland Smith Motors, Ltd., TS-S1, High Strect, Mampstead, Lrondon, N.W.:3.

All communications intended for the London warchouse of The British Aluminium Co., Lid., should be addressed in future to 23-25, Pancras Road, N.W.1.

Mr. Georse White, who is mell knowi in Manchester, has joined the board of Henlys, Ltd. and will be in charge of the Manchester branch as from August 10th.

Pirelli, Ltd., report a greatly increased demand for their tyres in Ireland. Their Duhlin branch office has been moved to more spacious premises at 4S, Fleet Street.

Starter rings for slirinking on the flywhel can be obtained from The East London Rubler Co., 29-33, Great Eastern Street, E.C.2, who are wholesale stockists of them.

Weathershields sliding roofs can be had in London from Messrs. Harwood Coachworks, Farm Lanc, Walham Green, S.W.6, who are fitting agents and stockists for the London district

The Fanworthy works at Poole, until recently occupied by the Moyal Body Corporation, have been taken over by Nesses. Dorset Indusiries, who will make motor bodies amougst other moodwork products.
"Building Goodwill at a Profit" is the title of a Tecalemit nublication, explaining the proaress which the company is making with regard to the provision of new equipment for farthering the efficiency of garages.

August 26, 1932.
The Jowett saloon which figures in cur front cover picture and also in the article in our centre pages was very kindly pliced at our disposal hy F.O.C.II., Ltd., 3 to 5, Meath Street, Mampstead N.W.3.

Bemmotors, well known to our readers as specialists for many years in second-hand cars costing under $£ 100$, are always well supplied with cheap light cars at "The Clearing Honse for Small Cars," 12S-130, Nast Hill, Wandsworth, S.W.IS.
C. R. Whiteroft's Riles, which won the R.A.C. T.T., used a B.P. mixture and Castrol oil. The following accessories were fitted :-Marfford shock absorbers, S.U. carburetters, B.T.II. magneto, Champion plugs, Dumlop tyres, and Duron brake linings.

James Grose, Ltd., who have a branch in the City at 4, Old Jemry, Cheapside, as well as their Euston Road premises, are offering starting handles with revolving grips at prices as low as 3s. Gd. Their 3d. rubber bonnet buffers to take the place of the usual webbing are au attractive and uscful novelty.
$\longrightarrow 0.0$
Mr. A. P. Compton, until recently prominent in the Arrow conchwork business, advises us that he is now in husiness on his own account. His new business is styled A. P. Compton and Co., the address being, Arrow Works, I'ortsmouth Road, Thames Ditton, Surrey. Mr. Compton wishes to noint out that he is making sports and racing bodies in spocial designs, but cannot now accept orders for "Arrow " bodies.

Always enterprising, Rootes, Lid., believe that they put through the first commercial call on the new wireless telephone service between London and Johannesburg, when one of their directors spoke to Mr. Len Oates, head of the Atkin-son-Oates Corporation, of Jolianneshurg. Mr. Oates mentioned that the Millman Minx was selling very well in South Africa and that sales of British cars were going ahead splendidly.




## "BIRSO"

Chill Cast Phosphor Hromze


Quality Scores Again in the
RILEY SUCCESSES
Irish T.T. Car Race, 1932
SUPPLIED
EITHER IN THE ROUGH or PRECISION FINISHED

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THE LARGEST LIGHT CAR BUYERS

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78, 79, 80, 81, HIGH STREET, HAMPSTEAD,LONDON, N.W. 3 (One milatelrom Hempatend Tabe Blatlon.)
Tolephoase
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Open all Weekdays 9-9 (including saturdays). SUNDAYS 9 a.m. to 1 p.m.


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been greater than now at BENMOTORS. have car values bement is an mour present car varied, the and the
Buying at exchange your is wide may desire an me choice is you may opportunity to The chole easy as you liberal. of over 200
anteed mase as emazingly stock of terms of purcmances ampresent models under $£ 100$


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## LIGHT CARS AND CYCLECARS FOR SALE

ALVISES, under 2100. Sce page 24.
29-974
ALVIS Brooklands sporta 4 -seater, 70 m.p.b., 12-50, o.h.t., numerons extras, overhauled and apecially toned, aboolutely $100 \%$ condition. f32 10s.ick
ALVIS 12-50, auper aporta aluminiam body, outside exhaust, except'onally well kept, guaranteed 70 m.p.h. licensed, 848 : exchanga motor
cycle. Tippeti, Arlington Ild., Surbiton. Eilmbridgo 1274. $29-1375$ ALVIS, 1927 12-50 aper-aports 2-seater, polned tail, taxed, f85: 10w deposits; exchanges. Paze, 199b Upper Richmond Rd. Pulney

AMILCARS, under $£ 100$. Bee page 24.
AMILCAR. Park Garage (Leyton) offe- a necial bargain 1929 jrand sporta 2-seater, 4-apeed, low chassim, cyclo tspo wings, prari parts chromium placed, Laxed and insured comprohennively, originally riced at e87, offered during this iale week only ate e70, cheapest cver ifered and imposalle to repeat Park Garage, Skeiton's Lano. Leyron.
Leytonstone 1437.192 AMILCAR, Surbsisae, senuío low chaseis grand sport, tax paid, cycleype wang; large diametcr l.w.b. 27 by 4 well-base Radge wacela an
 AMILCAR. J. K. Greenwood and Co., Lid., offer:-
AMILCAR, genuine Surbaisso sports 2 -seater, balloon efres, 2 spare whely and other refonements, very last car and extremely amart, ccilulosed red, any trial, $£ 47$ 10. Camden Motora, bohind Camden Town
Underground. 249. Amilear 9hp super-sports saloon, chromiam plating. elc., 36 m.p.g., over 60 m.p.h. beautiful condition. Below.

ع43. Amilcar 9hp Surbaiase type sports 2-acator, taxed, whlte and red, 70 m.p.h platigg, 3 now tyres, $1 . \bar{w} . b$., Triplex, new hood, cyclo winga,
239. Amilcar 9 hp long-tailed 2 -seater, recellulosed red, eatirely overe36. Amilesr sports 3 -scater, tared, L.w.b., Vee screen, otc., choice of El8. Amilear 9bp aports 3-reater, choice of two one tared, written
 ARIEL 9. 1925. 4-seater, mechanlcally pertect. rcpainted, all-weather
equipment, 218 . 10 Ewald Rd., Hurlingham. Fulbam.
29-1796 ARMSTRONG SIDDELEY, 1930126 , mileage 1.400, \&90 or exchange for later model with caah. Fry. 16 Green st. W.C.2. 'Phone, White-
hall $6636 . j 331$ ARMSTRONG SIDDELEY. F. G. Smith (Motors), Led. $12-61929$
 ARMSTRONG SIDDELEY, 192912 6-cylinder saloon aplendid orifer, leather upholstery, \$75. Demman, 132-3 Long Acre, W.C. Open werk-
end. Temple Bar 8135-6-7.

AUSTIN authorized main dealers. Immediato delivery of all modola new and second-hant, in riock; exchanges and delerred terma if desured.
Beechinga, Ltd. Farnborough, Hanta. Tolephone 279 . $\quad$ zzr-718
AUSTIN, 1931 model caachbuilt saloon, excellent condition, any trial. ay paid to ond of year, $875 ; 1930$ aloons. coachbuilt, from e55 ciculars. Normand Garage, Led. 489 Oriord Se. wis. phone. May tair $22 z-47$ AUSTIN 78 rallow alloon, 1930, very nice condition, thoronghly recarmended, hire-purchase, exchanges; £72 10ı. Taylors. Beloø. AUSTIN 7 fabric asloon, one owner, thoroughly overtanaled, cholco of 2.
from £59. Taylors, 135 London Rd., Kingston 1263 . AUSTINS, under £100. See page $24 . \quad 29-976$
AUSTIN 7, 4 seatop, 1928, in excellent condition, $x 28 ;$ nother, 222.
34n IIereford Rd. Westbourne Grove, W.2.
AUSTIN 7, late 1929 Boyd Carpencer epecial sports 2-seater, in excen-

AUSTIN 7s. "There's ne place like Holmes" It will pay you to 1929 Swallow saloon, black and cream, fine condition. a bargain. s 59



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The latest time for receipt of paragraph advertisements will in future be

6 p.m. Monday
for the following Friday's issue. Advertisements for our next issue must therefore Advertisements for our our Head Offes by 6 p.m. Monday, Auguat 29 h

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

 marron, l.w.b. pneamatic uphotstery, satety giass all round, 2 now
Dunlopi, very goou condition, taxed, 39 guincas. Below. F.O.C.B. 1928 Gordon England Cup 2 -seater, twin cxhanst syatem, remarkably rood enginc. good tyTcs. excellent condition ihroushout, Lixed, 39 guineas. $0-5$ Heath St., N.W.3. Hampstead 2215-6. Open
Sunday mornings.
29.215 AUSTIN 7, 1930, Wydor fabric S.R. saloon. black and red, exceptional AUSTIN 7 hp Cap model, 1928, just refabricked by makers and fited
 extras. overhauled. E35.
AUSTIN 7 Gordon-England Stadiam model, sports 2 2-seatcr ${ }^{\text {twin }}$ earburetiers, specialls tuned, oversize tyrea, in ocw condition ihroughout,
numerou: extras, tax paid, 845 ; exchanges or deterred payments.
Cump

 AUSTIN 7. Rennos. 1928 Malliner saloon, 1.m.b. starter, sparo
 Austin 7, 1928 saloon, good condition throaghoat, watety plasa,

AUSTIN 7a Maxey Motors, Lid., is the firm for these wonderful littise Call and aee therr, or we will gladly gend them to gor
AUSTIN 7, 1931, coachbuilt saloon, in fine order inside and out.
Austin 7, 1927. Cud model, vers fast, $£ 35$.
AUSTIN 7. 1928, van, painted, razdy for hard work, rery sound, $£ 34$. AUSTIN 7 Cap models alwass in stock at the fowest prices.
1931 (August) coachbuilt 2 -scater, $£ 25$ worth of extras, $8,000 \mathrm{mbles}$ only. 877102
1931 cuachbuilt sunsline aaloon, as new, $\kappa 82$ 10s,
1927 coachbuilt saloon, repainted, excellent order, taxed, $£ 42108$
Gencrons allowances made for any maké of car or motorcscle. Deferied terms.


AUSTIN 7. Brooklands Motor Co. offers: -1930 supercharged sports A-neater, verv mell mila ine this car in in purfect condition throughout


2J2-3 Lons Acre, W.C. OpC wesk 29-169


AUSTIN 7,
Long Acre,
W.C.

AUSTIN 7. E3 deponit, 35 guincan canb. 1929 model, Gordon EnkAnd Cup, very good condition, taxed; exchanges. Mowland Smith. hend
AUSTIN 7. $£ 7$ deposit, 69 gaineas cash. Late 1931 , chummy, very carclully ased, practically new, ycar's tax; exchangen. Rowland Smith Below.
AUSTIN 7 . $\frac{8}{4}$ deposit, 39 gaineas cabh. 1929 Wrdor fabric saloon, ion; exchanges. Rowland 8mi
AUSTIN 7. $£ 3$ deposit, 22 goineas cash. 1926, chummy, very good condition, taxed List free. Exchangea. All wock-daya, including etead. Minuto Hampstead Tube. Phonc, Hampstead 6041-6. 29-119
AUSTIN 7a. Earls for bargains.
AUSTIN 7, 1930 Stadium 2-scater sports, chromium plating, $£ 55$.
AUSTIN 7, 1929 Stadiam 2-scater sports, blue and efliver, E45.
AUSTIN 7. 1929 Wydor saloon, black fabric, taxed December, $£ 46$.
AUSTIN 7. 1927 G.E. Cup model, new bood, good tgres, taxed, $£ 26$
${ }_{1}$ AUSTIN 7s. Earls, 75 Heath St., Hampstead, N.W.3. Open until


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

AUSTIN 7. McCarthya Motora (192S), Lid., bargaina:-
19317 hp coachbuilt saloon, perfect condition, $£ 75$.
1931 7hp sunshino coactbuilt saloon, now condition, 880. 1930 Austin 7 tourer, one owner. very clean, $£ 60$. Part excbange and deferred terma arranged, NcCarthys Molors (1925), Led., 28 Qucen's Rd., W.2. Park 7766 AUSTIN 7. 26 gaineas! 1927 Austin sporta 2 -scater, good lighting and starting, nice appearance and condition; oxchanges, torma. Comorr
lords, Portsmouth Rd., Thames Dition. AUSTIN. J. K. Greenwood and Co., Lld., oflcr:-
E39 10a. Austin 7 Brooklands model 2-scatcr, Laxed, black and red, long-tailed body. wire whelle, outside cxbaust, t.w.b. Acro acrecn, remote ifal condition thronghout, written guarantee exchangos, doferred 30 and JOa Dighsatu Rd., N.W.5. Gulliver 2251-2.
AUSTIN 7,1931 A-scater tourcr, sound mechanically, nppearanco slighty shabby, 57, Kuineagi exchanges, deterred. Mallars, 95b Mitcham
Lane. Sircatham. M'hono 5159.
AUSTIN 7 tourers and aloogs. E30 to 875 . Randy io drivo away: taxed. insured and
from sio to $\varepsilon 65$.
Exchangea and simplest biro-purchaso; neither references nor securilles
required; drivo away samo day.
 decposi
chaso.

AUSTIN 7. 1928 Cup madel, exceltent condition, brind-new bood, bathers, rear tyres and tubes, taxed December, £40. Stratlorl. Cily
29-j728
AUSTIN 7. S77 10s. 1932 acrica coachbailt saloon, $100 \%$ condition AUSTIN 7, $£ 27$ 10s. 1927 chammy, fully equipped, excellont con-

 AUSTIN 7, 1929 (Jaly) anlonn, onc owner, Triplex, magnficent appearance, mechanically pertect, $£ 42$ 10s. AUSTIN ${ }^{7}$. 1928 coachbailt saloon, excentional condition, taxed, Insured,
£ 35 . 39 Lewisham Hill, S.E.13. Lec Green 1295 . AUSTIN 7, 1929, chuminv. rull cquipment, splendid conation, tased
 Sundage.
AUSTIN 7, $f^{2} 3$ or oftr. $19271 / 2$. Gordon Kingland sports \&-scater,

AUSTIN 7, tho amartest cup 1928, Asta head, stonegnard, Drooklands, hub capa, air cowls, dipping hicaulamus, decp uoto astanat, oil gauge,

AUSTIN 7s. Grmat calell Steclo Grifitha are offering during thla weck 250 used cars, all with writicn guarancec, at graty reduced praces,
 (tacing Westminster Abboy) Vicioria 0467. Court Houac, Camberwell
 AUSTIN 7, 1923 Stadium aporta, 2-seater, exceptional condition Ahroughout. small milcagc, hisensed Uccember, $£ 52$. Below.
AUSTIN 7. 1929 Wrdor labric aalood, well equipped, Gnisbed black
AUSTIN 7, 1929 8wallow sporta 2 -seater, exeeptionaly attractivo and
 AUSTIN 12-6 F. G. Smith (Motors), Litd 193112.6 conchbuilt Phonc, Seven Kings 1000 (7 lincel two, s145, Hibl Rd., Goodmases Phoae, seven kings 1000 ( 7 mes ).
AUSTIN 7, 1931 scrics, black fabric anlond, £55, Ensyft carricr, stop lamp. other extras in exemplary condition, any trial, after 7 evenings.
98 St. Mary's Rd., Canonbury, N. 1.
AUSTIN 7 tourcr, 1927, exceptional condition, taxed, insured end of geaf, E30. Crook, 27 Avedue RL., Staince.
 AUSTIN 7 chummg, 1927, tnxed, overhauled, good tyret, bargain, $\frac{8}{7} 23$ p.m. ${ }^{10}$. Davies, Penlec, Uxbridgo Common. Uxbridgo ${ }^{770}{ }_{29}$ Alfer
AUSTIN, 1929 Stadium model, rebuits, costing £40, mechanically as

AUSTIN, 1927 chummg, recellalosed and overhanled, all-weather eqnip-

AUSTIN 7, 1930 npal huo 4 -seater chumms, aplendid condition, every-


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

AUSTIN 7. £48. I929 (July) Wydor aaloon, very clean, taged year, E58. 1930 (May) $\Delta u$ utín 7 coacbbuitt maloon, perfact condition
throughout. Below. £125. 1931 pupercharged Ausin 7. Ulstor model, mileago 3.000, orange and black, one owner, as new: exchange, deferred terme Open
Sundays. Prince Albert Garage, Stainea Rd., Sunbury, Middlegez Tolophone, Sunbury 423.

AUSTINS: F.G. Smith (Motors), Ltd, for Smitheonditioned cara. Austin 7s: 1931. saloons from E85; 1930 aloon from ع70; 1929

AUSTIN 7, 1927 Lourer, chrominm radiator, good eyrea, cellulozed, nem hood, "carrier, $£ 27$ ios. Marvay, 115a Fonthill Rd., Finsbury
Part, N.4.
AUSTIN 7 Swallow, 1929,
any trial, 255. 16 Hayne Rer, good tyren, taxed, englne exeellent,
29-1737
AUSTIN 7, 1928 Cup aports 2-seater, olectrlo clock, largo headlamps, chromum-plated, taxed, insurad, £32 10s. 221 Maida Vale, W.9. $29-77$ AUSTIN 7, 1928 Gordon Cup 2 -seator, cyclo winge, rebored, exceptional car, lazod, insured, s34: also several other Austingincluding
1929 aloon 235 : 1928 4-scatera. Botsini, rear of 241 Ahida Vale,
W.9.

AUSTINS. Lane Motors for Austin 7s.
1931 lloslo ealoon, as new, cost $£ 117$ only, 75 gulneas
1930 Stadium aports, black and green, 55 gulncas.
1928 2-scater Cup model aports, 42 guineas.
1927 Gordon England aaloon, perfect, 23 guineas. 208 Weat End Lane.
29-78
 order, £55. Newnhams, 237 Hammermmith Rd., W.6. Riv. 4646.29 .84 AUSTIN 7, 1931 sunshino saloon, practically new, £75. Bclow.
 AUSTIN 7. 1930 Wydor saloon, Laxed, ono owner, very carelally malinAUSTIN 7, ع30. 1928 Cup model، exceptlonally good; choice of anotber; exchangen, terms. Maymirdi, 241 la Iligh Rd., Wood Green. 29.46
 AUSTIN 7, 1931 Swallow coachbuill saloon, two-colour finish, chromilm plating, bumpers, positively a brand oew, elos inchangea
deferred payments. W. F, Humphrey, Lid., 122 Hampstead Rd., N.W.1.
Phome, Munoum $9515-6$.

AUSTIN 7 G.E. Cup model, Triplex screen, twin wipera, pacomatie
AUSTIN 7, 1930 2-scator aports, eoachbuilt, E58.
AUSTIN 7. 1929 Wydor saloon, Trlplex all round, 255. Rhinds, Ltd.,
298 Deanagato, Manchester.
AUSTIN 7. Naylor and Root oHer:-
1931 Austin 7 Oister aports 2 -seater, tuned ongine, $\mathbf{f l l 5 .}$
1929 Austb 7 tourer, choice of threo, oxcellent condition, $\varepsilon 45$
1929 Auatin 7 stadium 2-aeater, many extras, tared, $£ 45$
1931 Auatin 7 coachbuilt asloon, amall mileage, 875.
1930 Auatin 7 coachbuilt aloon, choice of two, $£ 62$.
1928 Uuatin 7 Swallow 2-sealer, reconditioned, taxed, £45.
1928 Austin 7 tourer, very clean and tayed, e36.
1928 Austin 7 Cup, 1930 improvomente, fant, £42.
1927 Austin 7 chummy. carofully uacd, tased, $£ 32$.
Naylor and Root 25 Enat Hill, Clapham Juaction, 8. W. 11 Phane, Buttcras 6187-9. Opan 9 a.m. to 8 p.m. (including Wednesday).

AUSTIN 7. Cnasa Motor Mart, Led. (eatablinhed 1911). 1932 de luse coachbuilt saloon, suashine root, blue, mileaga 3,000, $£ 100$. AUSTIN 7. 1931 de luse manhine saloon, bloe and black, small milloexchangea; oxtonded guaranteen, domonatrations lree within 50 milea: 29-124

AUSTIN, 1930 WSdor salcon, year's tar, mall mileage, a new
AUSTIN, 1929 Swallow aloon, rod and black, bumpers, laviably


AUSTIN 7, with qunshine roof, £38 10atll Late 1929 Wydor alloon,

AUSTIN 7. Broadmay Motora offar 1931 8wallow aloon, bumpers, bardly uecd, 100 guinean: choice of 6 from 265.
1929 Auatin 7 Swallow aloon, orcollent condition, £62: cbolce of 2. 1930 Auntin 7 K.O. apecial sports 2 -soator, Alta hoad, Solex carburotter, vary last, $\ell 82$ 10s. Many others from 1025 .


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

AUSTIN 7a. Bale, August 21-31. End-af-eamon reductinns: 120 cara 1932 8un galoon de laze, grey-black, leather uptolstery. used fow do 1932 8un saloon do laye, grcy-bleck, leather
monstrations, full guaranieo, \&ilUG. Below.
1932 galoon de laxe, blso, long chasain, mlleago very amall, Inciarinerabable from new. Lazed jear, fully insured עecember, \&9日. Helow. 1931 4-seater, opal blue, very sound mechancalis, atracuve througnout, taxed. \&66. Helow.
1931 Coacbbuilt sunibine faloon, blue, leather apholstery, carefuisy
1930 Saloon de Iure. reg. GCA B1, Tyiplex, leather upholstery, beauts
fully taph, guaranteed, 257 . Below. fuly kepl. guaranced, 257. Below.
1929 Wide-door, aloon, blue, red leatherette upholstery, good tyres, 1929 4-seater, dark bluo, sood tyren, ftep mats, dash lamp, A lot,
Lared jear, f45. Helow.
 mechanically. insured, £<2. Below.
1927 (Juno) Coachboilt alcon, blue, leather upholstory, very attractive





AUSTIN 7, 1927 tourer, perfect order, taxed, \&28. Below.
AUSTIN 7 tonzer, good order, lazed, 217 . Below.
AUSTIN 7, 1926 G.E. Cup, excellent order, tazed, £23: low dephsita,
axchangen. Page, 199b Upper Richmond Rd. Pusney 7671, $29-270$
AUSTIN, 1930, Thp suabine aloon, falleat equipment, Fell kept in every respect, good lyres, iay paid, lez
(Paddingion), 259 10s. Kiry. Below.
1930 Arrow aporta 2 -seater, full equipment, pnenmatio leather upholstery, attractive cream and black Lody, al chrominm, numeroun
 dition
19307 hp Taylor Ace rparts 2 veater, completely equipped, attractive don't mias this fast and atiractive litele bua, tas paid (Pajdington) £65. Three-Monthi-Written-Guaranteo. Exchangen, verma. 100 other


AUSTIN 7. Cup medel, lato 1927, in very good condition throughout, excellent tyrea, many extras, maroon iabric, a very altractiva litile
car, 237 10s. Camden Motors, Buck Sh, behind Camden Town Undarground.
AUSTIN 7 1928, coacbbait saloon, finished maroon cellalone, ex cellant condition, 238 best possible deferred terms. The Serrie: Ca,
273 High Holtorn. Holborn 0666 .

AUSTIN 7, brand-new ahop-soiled anregistered Swallow coachbrilt Raloon, black Yond creat. sunshinem Hill, S.W.2. Telephone, Sireatham 9520.

AUSTIN 71928 tabric maloon, aice condition, mechanically excellent.

BERLIET. F.O.C.M., Led. 1927 (latel 9.5bp 4-door coachbuile esloon, 4-speed, f. -b. wire wheels, tarter, good tyre, remarkabie performance

B.S.A. Hackiord Motors, the B.8.A. 3-zheeler specislints. Eighteen
months to pay. good prices in part oxchavgo trade aupplied. Write

Mactiord chromium lesgago carrier, sporta 32a. 6d.: de luxe and
family, 29 . 6 d . Helow.
 Heakford Notors, Ltd., 183 Acre Lane, Briston 'Phone 3062. 2zz-85 D.S.A. Harry Nash, B.S.A. epecialistll!

1931 (Septemberl B.S.A. Btandard 3 -rheeler, mileage 6,000 . taxed,
one owner, exceptional condition, $£ 67$ 10a. 1932 (August) Family model, taxed yar, insured, mileage 300. inFull range 1932 3-wheclera: instant delivery.


E.S.A. epeclal aports $s$-wheeler, 2 carburetters, cut-away sides to body,
special exhapat, years tax, superb conwilion, ternitically fast,
E/U



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

B．S．A．Rennas． 1931 10－21 2－seater sports 3－wheoler，starter，dynamo，

 ES．A．，1932．3．wheeler snecial sports，almost as ncw，attractively

 B．s．A．， 56 deposit． 65 guincas cash． 1932 model sports 3－wheoler，

 6011－6．
B．S．A．E60． 1930 sports，specially，futted 31 tspe body，black and
 B．S．A．， 193 ì：rporls，amall mileake，new lyrcs，taxed sear，as brand

Es．A．Naylor and Root，Lid．
1931 Family，small mileage，beautiful condition，$£ 72$.
1931 Do Loxe，black and red，good tyrcs，chromiom， 165
1931 Special sports，chromiam lamps．Blun Star enginc，sis
1932 Family，black and red，absolately as brand new，f85．
1932 Sports，chrominm lamps．mileago 2，000，taxed Decermber， 885.
Three months written guarantec．Highest axchango allowances；do－ 12 or 18 months．
Detafled specification on reqnast or onr outside representativo will bring a model for sour examination and trial withous obligation．



kept，taxed，bargain，E70．Smith． 407 Eugware Rd．

## buGATtI．J．K．Greenmood and Co．，Lld．，offer：－

f32 10．Bugatis， 11.9 hp modificd Breacia uper－sport 2 －sealer，6nished black and cream，streamlined Lail body，lolding－down screen，wirc whecls delachable hood． 4 speeds，latetyno madiator，sood fyres，spring stecring

CITROEN， 520 ． 1927 ． $12-24 \mathrm{hp}$ ． 4 door coachbuit saloon，new tyTces

CITROEN， 59 gulncas 193112.8 hp dron－bead coupc，finlshed red and blaek．pertect．Short and Glass，Lid．，S2， 54 end 56 Fitzro3 St．
London，W．1．Opon Saturdays 9－6．Mosenm 8176，8177．


CLYNO．F．OC．II，Ltd 1927 10hp 4－door conchbuile aloon．brown iw b．i ingsaze grid，ercentionally god condition． 16 grincas．5－5
CLYNUS，tourers and raloons，$x 10$ to tisU，rcady to drive away： CLYNUS，tourers and raloons，flo to £isu，ready to drive away：日lock．froan 210 to $\boldsymbol{x}$
Erchanges and simplest bire－purchase．Neither relerencos nor sccurntics
required，drive away bamo cay．
Example：－Clyno，taxed，insurcd and guarantced， 254 or 518 deposis orpurchase
Andrews Automobiles， 37 Sheen Lano．Mortlake，8．W．＇Phone， 1 riospoct

CLYNO，1928，11kp rogal saloon，perfect condition cbroughout，clear－
ance price 2 डjo．Panl and Co．， 51 Tho Ma山，W．5．Ealing doss
COOPER Special，redesigned and spectally built in 1931，1．100 c．c．
supercharged 4 －cylinder englino， 4 －speed closeratio carbox，intercon nected f．w．b．wonderiful accoleration，genano yo m．．h．car，compice
DE DION BOUTON FOC．B．Ltd 1925 （October） 95 hp 29.48 conpe，double dickey，i．m．b．，Magna－typo wiro whoela，remarkably fino

FIAT，1927，8hp 2－seatcr，excellent order，tared to December，$f 34$ ；

FIAT 10．8， 1928 tourer，an－weathor aquipped，exceptionally good

FIAT Nine， 1930 model Swallow zaloon，excentionally pice order 2hroughout，E8日．W，T．Donn．Lid．， 307 Euston Rd．，N．W．1．Nuseum

FIAT，10－15hp tourcr，1925－6．t．w．b．，execllent tyren，wondertul condt－


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

FIATS，under s 100. Sce pase 24. $29-977$


 FIAT 8hp， 1929 A－seater tourer，maroon，rebored，new pistons，leather
 FRAZER－NASH， 75 wh in．auper－sports，special 3 －acazer shill body，

 sulcon o．b．e．${ }^{2}$－s


 HUMBERS，under £100．Sco page $24 . \quad 29$ ．978 HUMBER．Sovaral of there choice card in stock．Vafuo qubeatable， perlormanco unsurpassed．Senj lor list or sec displayed advertiscrncen S．w．11．
HUMBER，$£ 20: 11$ ． 1925 coachbuitt saloon，bluo， 11 bp．Denmans，
$132-3$ Long Acre．W．C．Opan weckends．Teuplo Bar $8135-6.7$ ． 132－3 Long Acre．W．C．Opan weckends．Tumplo Bar 8135－6．1．175 HUMBER 9．Cookes Motors olicr： 1927 coachbuitt kaloon，a perifect

JoweTt．Manchaster． 1929 ， 1930,1931 gnloons and tourcrs，alwaya In stock．Distrithurors for Lancashire，Cheshirc and North Wales．Sasion
Jencria．Ltd．，Neanssatc．Blac． 1122 －3
 taxed，insured
stock，from $£ 10$ to $£ 65$ ．
Exchanges and simplest hiro－purchaso．Neilher referencas nor sccuritics xeguired．Drive away samo day．
Examplo：－Jowothe taxed，insurcd and Euarantecd，f54．．or 518 deposit


 Jowert， 1931 conchbuilt saloon，long chassis，taxed December，bean－
 JOWETTS qaed models on oller，cheap．al Sabson＇s Garage，Jowctl agents，Leiccster
Jowetts，under fioc．Sce pago 24
29.979

JOWETT， 1926 long 4 －geater，maroon，startor，all－weather equipment， rear screen，sound，haxed，£12；appointment． 42 Court l＇arm Aycnue，
Ewell．
20．j716

JOWETT， 1928 （Auguse）long 4－scator，Insnred，Laxed，unased for 2
 dowert， 1927 long $\begin{gathered}\text { 2－mater，excellent alliround condition．many } \\ 29 \text {－j734 }\end{gathered}$


JOWETT．F．Q．Smith（Motors），Lid．， 1931 Jowett long－chasis coach built 2aloon，in really as new condition，E105；extended pinymenta


JOWETT，late 1929 7hp long－chassia 4－scater，\＆．w．b．Ewart disc whecls，

JOWETT， 1931 saloon，$£ 95 ; 1928$ coachbaile aaloon， $548 ;$ details on requeati ane displaycd adrert，in this issuc．Naylor and Root，29－159
Hill，Clapham Juncuon，8．W．11．
JoWETT，1930，Black Princo asloon，Ginishod black and croam，ex－ ceptionally fine condition throughout，one owner rinco now，L． 8 ，iber


Jow ETT， 1924 long 4－seatcr，blue，starter，good tgres and all－wrather equipment，sound，haxed，E15．Smith， 407 Edgware Rd

JOWETT，1929，long chassis de luxe 4 －door saloon，in exceptionally


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

JOWETT, F.O.C.In.. LTD., Established 20 years. Jowett distributors and sccond-band spocialiats. Sead for irco list. Below.
J'. O.C.1I. 19317 bp long-chassis 4-door fabrie saloon de lure, black ad frcen, wire whecla, moquetto, one owner, small mileage, practically
F.O.C.II. 1929 (August) 7hp long-chasial coacbbailt 4-door asloon de luyo, bluo, f.w.b., enclosed luggage containor, opening windacreen, bosch F.O.C.IK. 19257 hp long-chassis 4 -seater, grey and black, leather upholatery, ncw hood, rery carelully uacd, absolutely 1932 condition, yeara tar, 24 quineas: exchanges, delcricd.
atcad $2215-6$. Opea Sunday morninga.
LEA.FRANCIS, sj5. 1929 12-40, 2-scater and dlekey, maroon finish, unscratched condition: cxchanges, iorma. Maynards, 241 a High Rd.: Wood Greon

LEA.FRANCIS, 1929 12.40hn, fitted with $12-504$-scater sporta, taxed, 12-22hp 19274 saater, recellulosed, genalacly good condition throughLEAFRANCISES, ander £100. Sce page $24 . \quad 29.980$ LEA-FRANCIS lourcr: £25, in good running order, tascd. 133 Dash-
wood Avenuc, High Wycombe, Bucks.

LEA.FRANCIS. $£ 67$ 10s. $192812-40$ sporla saloon, wiro whecla, $\begin{array}{lll}\text { vory fast, excellent condition throughout: exchangen, terms. Ward and } \\ \text { Co., } 5 \text { Unper llichmond Rd. E. Puency } 2818 . & 29-104\end{array}$

 MARENDAZ, 1932 2-litre International sports. Ine ocm. 2-4-acater,
 M.C. Miclget, 1931 , beautiful condition, polished diso rbecls, bleck
body, lnggago rail, tyrcs nearly now. silo. Write, or eall after
 M.C., 1932 (Juncl Montlhery Midgot registered mileage 1,900, posi-
tively as new, ateractively Naished bluo licenacd December, 198 ; exclinges, terms. Norringtona, 245 Goldhawk Rd. Shephord's Brach,
W.12. Riverido 2365 .
 condilion $\mathcal{L 1 0 0 j}$ exchanges, delerred. Allery and Bernard, 344 King'
Rd., Cholsas. Filaxman 4633 . M.G.s., undor s100. Sco pago 24. 29.981 M.C. 1930 saloon, 1915 . G.L.M. Nolors, 18 Worple Rd., Wimbicdon.
Tclephono 6026 .

 M.G. Midget. 1930 model, in splendid order, 4 new ijres, e75; cx-
clango considored. Pim, Park 0210 .
 M.C. Mickets with a ginnt performanco. Choico of six. Send for list or aco disnlaped advertisement in thia issuo. Naylor and Root Lid.
25 lizst Hill, Clapbana Junction, S.W.11.
 M.C., 1932 Magna, milleago 3,000 , as brand ncw, $£ 185$.
M.C. 1931,750 c.o. special competition Montlhery 2-scater, cheapest
orer ollered, $£ 185$. M.G., 1931 pecially tuned 4-speed Midmet, year"s tas, four brand-now

M.C., new and unrecistored Midpet 2-scater, coachibullt, ipare whecl at

M.C. Midect, 1931 black \&abric, apotlight, Triplex, hood, acreens, one M.G. Mer, 89 guincas; termas, oxchongon, Crossland, London Rd., Bromley, $29-69$
Ownent,
M.C. Midget Z-scater, 1932 very amall mileage mnny extras, practically

M.C. Cass's Motnr Mart, Leत. Nestablished 1911) 1932 Midget coach hulic 2 -scalcr, milngo 4.000, black and red, El49: wrilen Erarantee,
 Cass'a,
M.Q. MIget, 99 doposit, 92 guinceas cash. Lato 1931 soper pports 2 M.a. Mdoret, red, one owner, excoptional condicion, Laxcd: excbangos. Row-
land Smilh. Below. Ma. Mide Bclow.
M.C. Midmot, $£ 7$ domosit, 72 gninens mah. 1930 suner sporis 2 -smater,



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

M.C. Jarris of Wimbledon for mecond-hand M.G. bargaing

1932 supercharged Midget, low chasais, Jarvis 2-seater, British macing
green, 4-speed geapbor, milicage 5,000 tared gear, E199.
1932 Midset, low chasif, occasional Aseater standard toarer, demonatration model, mall mileago, black and green, Lared year, $£ 165$. 1932 M.G. Midgct, panelled 2-Eeater, brand new. alightly shop-noiled, list price \&185, accept £155 with maker's fail giaranteo. Jarvis and
Sons, Lld., Victoria Crescent, Wimbledon. 'Phone 2526.
$29-38$
M.G. Sprosen, Lid. (Normmn Black). Eighiy sporta cari, fully garantecd; deforred paymeana, repupchane.
M.C., 1932 espo Montblery Midgat. Hmont unused, one owner, many M.G. Sproson, Led. (Norman Black). 1932 Mldget low chassia, D-tspa ocoasional 4-scater aports, one owner, rery small mideage, $£ 165$.
M.G., 1932 Midget 2 -seater, black and red, one owner, $£ 135$.
M.C., 1931 Midzet 2 -acater. choice of 5, all In excellent condition, from
عilo. M.G. 1931 . Midget coachbuilt coope, unshing rool, ع145; otbers,
ع 115 . M.C., 1930 Midget 2.seater, choice of $6, ~ c a r e f a l l y ~ u s e d, ~ m a l l ~ m i l m a z e . ~$
from 285 . 109 Gt . Portland SL., London. Langham 1212. M.C. Midgct. 1931 s-enter aports, exceptional condition, 2105 . Rhinda,
Lid., 258 Doansgate, Manchester. M.C. Midect, 1930 , finished red, chromium plating, really iast, excep-
 9515-6.
M.C., 1952 Midget sports 2-seater. coachbulle, 4,000 miles, shop-soiled
conditlon, tared year, insurance facluded, $£ 140$. Below.

1930 (August) Nidgot 2-seater, largo sump, red. Al lot, selliag for private owner, laxed year, 880 . Smith and Hunter, 407 Edsware RH.
Ambassador 1011 .
M.G. Midsch F.O.C.F., Led., 1931 8hp super aports 2 -seater, black and red, cycle type wingy, exceptionally fane condition, 95 gainean. A.C. Midset. Snip!!1 1932 tabric 2 -seater aports, hlack and red.

MORCAN Serrice Depot, Oficial appolnted repairert for the Morgan hand machines always in stock trade spares carried. New and second 243 cod 247 Lower Clapton Rd., E.S. Phone, Clissold $9616-9517$. MORCAN. Maglell tor Morgans. Sole London genta south of the Thames Sparea and overhauls New and recond-hand Morgans alway

MORGAN Anzani, ob. $\begin{gathered}\text { Grand Pris. W.c., electrle ligheing. dynamo }\end{gathered}$
 MORGAN. F. G. Smith (Motors) Ltd. 1926 Aero. Eater-coaled

 50 guincas. A.z. Motora, 180 West End Lane, Hampatead. 0523. MORCAN, 1930 Acro. ob. finiabed cream and red, lovely job, 857 10s. Rbinds, Lid., 258 neanst
Galo. Maychestor.

MORCAN, 1932 super-aporls, only done 2.000 milen. atill within makera' guarantee, $\mathcal{L}$, Ilford.
245 Higb Rd.

MORGAN, 1928 Acro o.h.v. Aazani, l.w.b., gearad stecring. dynamo, £40. Bolow.
1924 Morgan Grand Prix, w.c. J.A.P., dsnamo, el7. Below.
1924 Morgen Grand Priz special, tazed year, \&8. Below.
1927 Morgan De Lure, Acro chassis, startar, f.w.b., W.c. J.A.P., 224 Below.
1924 Morgnn Do Lure, o.b.v., W.e., magneto, excellent condition, Layed,
 MORGANS, F. M. Douclass. St. Mary'a Rquaro. Falling. W. S. Alwave has MORGAN, 19309.86 wc . JAP. family, tarter, very nice condition,

MORGAN. 1929 2-acater touring, taxed Insured, splendld condition,
\& 25.54 Britanala Rd., Fulham. Phone, Fulbam 2024.
$29-j 335$
MORGAN, 1929 (July), Aero, s.v. J. A.P., t.w.b., geared steering, satety plete renaint fred), open any examination, \&48 $10 \Omega$ unused since com


MORGAN, Famlly model. E20, good endition, J.A.P. engine, w.o., o.1. mechanically perfect, apip. Morgan. 25 North Rd., Wimblodon.
29.1742

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

## MORGAN. Naylor and Root, Lid., ofter:-

115 cuincas. 1932 auper-sports, threa-specd.
86 guineas. 1931 super-sports, duo green.
59 guincas. 1930 Acro, s.r., M chasain, starter, etc.
50 guineas. 1929 Acro, o.h.7. J.A.P., many extras, toxed
47 guincas. 1929 Aero, ah.r. Anzani, \&.w.b., specdometer, hood, etc
38 guincaa. 1928 Aero, s.v. J.A.P., I.w.b., geared atecring
30 cuineas. 1927 Aero, o.b.r. Anzani, f.w.b., dynamo, hood, elc.
25 guinoas. 1926 Acro, a.v. J.A.P., i.w.b., speedometcr, bood, taxed. 12 guinces. 1924 Grand Prix, s.f. J.A.P., dynamo, hood, amart. 22 cuinoas. 1927 de duxe, s.v. J.A.P., f.w.b., specdometer, etc. 48 guineas. 1930 Famlly, s.v. J.A.P., atartor. 6,000 miles. 45 guineag. 1929 Family, w.c. J.A.P., slarter, extras, smart. 25 gaineas. 1927 Famils, M.A.G. dynamo, side screcn, bargain, 16 cuineas. 1926 Family, B.f. J.A.P., dynamo, apecdometer, etc Detailed specification gladly sent on request. Generous exchange allowances: deferred ierms over 12 or 18 months.
It desired, and without my obligation, wa will gend our outside reproentalive with any of the abore to give you a trial. If astisfactory, deal osil be completed on tho spot.
Naylor and. Root, Lid. Morgan specialinta, $248-250$ Larender Mill,

MORGANS. Homacs have for disposal the following guarantecd
1931 Super-sporta $10-45$ o.h. . T.A.P., ML chassia, i.w.b., Vee screens, 1928 Super-sports 1045 oh.T. J.A.P. fully equipped, escellent order 1927 Family 8hp w.c. J.A.P., djnamo, f.w.b., side gerecns, good tyres, execucat order. E37 los
1927 Family 8hp J.A.P., dynamo, side screem, escellent order through1926 SLandard model 8 hp J.A.P., dynamo lighting. good serviceable Exchanges or deferred.
IIomaca, official Yorgan service depot, 243 and 247 Lower Clapton Rd.
E.5. ${ }^{29-72}$.
MORGAN, $1932 y$ sports Lamily, shop-soiled, Garanteed, 2100 . Alcx
Thom, Motors, CardiH.

MORGAN, Aero, $10-40 \mathrm{hp}$ ob.p. J.A.I 1928 , w .b., orerbauled, new tyres, $1 a x e d ~ m a d ~ I n s u r e d, ~ b a r g a i n, ~$
Welwin Gardeo Cuineas. Mills, 21 Ludxick Wny.
$29-1733$

MORGAN. ع6 deposit. 59 guineas cash. 1929 (reg. 1931), super mporia, racing o.h.v. .B... exchanger. Rowland Smith. Below.
MORGAN. 25 deposit, 55 guineas cash. Late 1930, Acro, racing oh. J.A.P. M chassia, straightthrongh exhauts. foot accelerator reduced stecring, hood, exceptional condition: excbangen. Rowland Smish. Below.
MORGAN. 83 deposit, 35 guineas canb. Late 1928, Family, Ebp N.e. J.A.P. A. W.b., reduced secring. carclully used, exceptional condiMORGAN. ع 3 deposit, 32 guincag casb. 1927, Aero, 8 bp J.A.P. electic atarter, i.w.b.: straikht-throurb exhausta, hood, very good con dition, raxed, insured to April, 1933; exchanges. Rowland Smith
MORGAN. $£ 3$ deposit, 32 guineas cash. 1926, Aero, racing o.b.p. Blackburve, fiw.b., straight-ihrough exhanata, feducod stecring. excep Saturdays, 9-9, 8unday』 9-1. Rowland Smlth, 78.81 High St. Hamp stead. Mingle Ilampstcad Tube. Phonc, IIampatcad 6041-6. 29-120 MORGAN, Acro, 1929, o.h.v. 1040 J.A.P., S.w.b., new tyres, starter, bumpers, cream, grecn wings, many extras, very faat, any trial, fone
condition, 857 . IO Doract Avenuo, IRomiord. Alter 7. 29 j735 MORGANS. Carlton Garage. 1927, Acro, J.A.P., geared steering, 926, Aoro. o.b.p. Elackburne, black and red, cycle winga, 29 gulneas Below.
1925. Acro type tail, J.A.P., 22 gulneas. 79 Carlton Vale, Maida Vale.

MORGAN, Aero. 1926, o.b.v., 10.45 Blackburnc, f.w.b., geared steer nit, taxed to December, 1932, £28. A. W. Dunn, Oaklanda, Ponnd MORGAN, 1928 Aero J.A.P., ob.v., 235, eplendid condition. Buntings,
Wealdatone, Harrow. MORRIS Mloor, 1930 febric aloon, blue, firat-class condition, highly recommended, $\dot{\text { A.A. inapection invited, ES5. Taylora. Below }}$
MORRIS Minor, 1929 saloon, blue, very clean, 242 10s.; hire purchase


NORRIs Minor, 1930 specia] 2-scater Arrou hody. exacpilonally nice-looking car, new condition thronghout. liconacd. ©65; exchango
motorcycle. Tippett, Arlington Rd., Surbiton. Elinbridg motoreycle. Tippett, $\Delta$ rlington Rd., Surbiton. Elinbridgo exchango
$29-1673$

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

MOREIS. I. A. Saunders for carofully used Minors
1931 o.h.v. Swallow saloon, cream and green, undoubtedly rery attmetivo, and in oxcallont condition Lhroughous, x97. 330 Euslon Rel. 29.261
N.W.1. Musoum 4511.
 MORRIS Minor, 1931 (latel 2 -acater sports, one ovner, small mileage, superb condition. laxed, 57 guincas; terms, exchangos. Crossland,
London Rd., Hromicy.
29.70

MORRIS Minor, 19308 bp coachbuilt faloon, brown, sumbinc rnof,



 MORRIS Minor, 1930 saloon, exceptionally smart and sound condition,
 MORRIS Minor, Bniplli 1931 (Fobruary), s.v. 2-scatcr, taxcd, ex-
ceptional condition, $£ 57$ 10s. 1931 Morris Minor, s.r., coachlunilt folding rool faloon, taxad, emall mileage, indiatinguialiable new, $£ 72$ 10s. IIarry Nash, 348 King si.
Hammeramith

MORRIS Minar, 1930 o.h.v. caochbuilt sunslunc aloon, finished be:ro and rrown asfety glass all round, numierous extras, including sun visor and loggege carricr, liconsed to December, very low muleage. un-
seratched, f75; exchangea, deferred paymenta. W. Fitumpircyi. Lid.

 MORRIS Minor tourera and saloons, $£ 50$ to C75. Rendy 20 driro away, laxcd, insurcd and gu,
Exchanges and aimplest bire-purchase. Neither reforences nor gecuritica required. Drive awny satro day
Fxample:-Morria Minor, taxed, insured and Ellarantecd, f54, or e18 Androws Automobilos, 37 Sheen Lane, Morllake, S.W. 'Phone, Ironnch

MORRIS Minor, 1930 asloon, oh. 4-acatcr, pericet condition, one owner, private only, £75 or mear ofler. L.M., 183 Tho Avenue, N.17. 29.14 MORRIS Minor, 1931 saloon, folding head, ono nrivato owner, most
orceptional condition, c77 10a. Tampliu Moton, Cheam. $29-1443$
 il all tyres as
\& 79 . Alo
MORRIS Minor a.v. coschbuilt sun saloon, taxch, magnificent condition, £69; oxchanges, delcricd. Smilth $\Delta u t o ~ C o ., ~ L i d ., ~$
Crosdon. Croydon $2182-1688$ London 129.143

$29-143$ MORRIS Minor, 1929 saloon, brown \&abric, excollent condition, $x 45$ : | cxchanges, terms. Yarwoods, Slouclcy South, 1Iigh Rd., Tottenlum. 29.145 |
| :--- |
| Phono 3122. |

MORRIS Minor tourer. 1929 (August), excentionally gond condiflon,
£3G. 24 Sh Peter's Grovo, Hawmersmith. Niversido $4652,29.151$
 MORRIS Minor saloons and tourera. Choice solection of over 10. Thrce montha' written guarmitce. Sco displayed advertisemeut in thas issue or send for liat. Naylor and Root, 25 Eastillill, Clapbasu Junction.
S.

MORRIS Minors. Great ralall Steele Griftithe aro ofloring during thia weele 250 ased cara, all with written guarantco, at gratly reduced prices, inclyding seveial Morria Minors. All showrooms open till $8 \mathrm{pm}$. . lacing Woalminstor iAbbey). Victoria 0467. Court Mouse, Camberweli ew Rd., S.E.5. Rodney 2201
 MORRIS Minor,
First $\Delta$ vanut, Bradjord (Moor).
MORRIS Minor, 1930 8hp fourer, bluc, chromium, new hool, food
MORRIS Minor, ejs 10』. 1931 a. 2-scater, amall mileage, onc owner. Bolow.
MORRIS Minor, E67 1Us. 1930 ann-roof, well kent and gencrally In aplendid order. Ward nad Co., 5 Upper Richmond Rd., E. Putney, $29-107$
2818 .

MORRIS Minor. Brooklands Motor Co. offera:-1930 tourer, very good
condition. 257 10s., written kuarantec: exchangea and privale cegerrea
29.230

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

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

MORRIS Minor, 1932 8hp coachbuilt aliding-root soloon, moderate muleago only, \&95. Bolow.
1931 8hp coachbullt openiag-rooi saloon, exceptionally nice order, e75. Nowobam House, 237 Hammersmith Rd., London, W.6. Riv. 4646. MORRIS Minor, 1930 model, saloon, fininhed blue, excellent conditinn

MORRIS Minor. Silc, August 21 st -318i, End-of-seanon reductions. 120 cars to clear, including 50 Moris. Lipt frec. Smith and Hunter. Below.
1932 (March) sunshine saloon, mileanc 1.200, quite indistinguishable Below.
1932 2-scater, green, new April, milleago 3,500, taxed September, epot192
less order, s80; another, Nather more mileage, $\boldsymbol{\Sigma 7 8}$. Below.
1931 (April) coachbuilt sunshine saloon, gres, very sound, one private owner only, guaranted, \&73. Below.
1931 Conchbuilt 2 -seater, side valve, tyres rery good, in moat attractive 1930 faprill fabric saloon, bluc, acrviceable tyres, exceptionally sound and well kept, sj5. Below
1930 Stadinm sporis 2-ecater, maroon, very attractive throughout, com-
nlete equipment, \&65. Helow. 1929 (August) silloon, blue, Triplex throughout, exceptionally sound,
tared rear, $i f 6$. Bclow. Smltb and IUnter, Itd., 407 Edgwaro Rd. Ambassador 1011. Eren-
inga 7, Suturday 5, Sunday 10-1. OMECA, 1927 sports 3-rhceler, taxed, insured March, 1933, water-
 Wrotham.
PEUGEOT 7. 1926 small 4 -scater, taxed, room wanted, £8. Snow,
42a Wilton Re, Dalston, E.8.
295.
 RENAULTS. The folloring cars, logether with sercral others, carry
 1932 Shop-soiled cars to clear. Special prices.
lohp 10.4 -seater salosn, dumpers, maroon, f170.
12hp 6-cylinder saloon, blae, bumpers, Hst £250, 1770 .

1928-9 12-5 Monosix saloon, do Iuxo, Weymann or coacnoante, com-
1928 9-15 tourer, all-weatber sido acreena, bulf, £3S; another, xisu. 1927 9-15, as above, taxel, new tyres, £25; another, £こ, 1926-7 9-15 spares at low prices.
$2 y-54$
RENAULT 9, 1928 fabrio salnon, taxed, execllent balloon tyes, exeep-
tionally clean ihroughout, 827 los. Barnikels, Kirchen RJ., West

RENAULTS, under $£ 100$. See page 24. 29-983

RENAULT, £20, 1927, A.w.b., Bhp louring car, fine runner, Denmans,
152-3 Long Acro, W.O. Open week-enda. Templo Bar 8ij5.6.7.
 taxed and insured, ligliting aucl afarter, good tyres, iullest equipment oxcellent paintwork. etc., genuinc $40 \mathrm{~m} . \mathrm{p} . \mathrm{G}, \mathrm{ideal}$ boliday car. Harnes,
So Leighdia Avende, Strentham.

RHODE Standard saloon, $\{56$ to $£ 48$; realy 10 drive away. taxed Elo to and guaranted $£ 5$ munths: 100 popalar makea in atock, from
Exchanges and simplest hire-purchaso. Neither relerences nor securlties required. Drivo away antme day.
 purchase.

Pitey spechallsts. Write for list of guarantocd-used cars to Suseex
Distributors. Lewes Motors, Lewes.
RILEY 9, 1998 kporta 4 -scater, Mark Ill model, central change. Just reborod, new Dunlons, 38 m m.h. oil negligible, taxed, f60 exchango


RILEY 9, 1930 Monoro maloon, hlack and red, rervgood tyres, exceptionally clean. $£ 130$. Leeds and Osloy, 1a Maida Hill Weat, W.2. $\underset{29-264}{\text { Pad- }}$
RILEY 9, s97 $10 \mathrm{~s} ., 1929$ Mark IV Monarn saloon, inxed, excellent rondition throughout. Puul and Co., 114 Gt. Purtiand SL. Muscum
$8464-5.263$

RILEY 9, 1930 (lata) Momaco saloon, gevv Fort Dunlops, one owner,

RILEY, 1929 Monaco Inhrio saloon, recently overhauled, £n5. II. and A. Notora. 69 Cburch Rd., Upper Norwocd. Livingatono 3122 Oner
Sundays ing- 1 p.m.


Piley 9, 1929 Monaco saloon, finished black and red wire whecls, carctully used by one owner, salety glass fited, licensed December, \&89;
 RILEYS, under s100. See page 24. 29-983

RILEY 9111 1930 Monaco aloon in very one mechanical order hroughout, of nice appearance and taxed December, colour daph bluc, lull eguipment and extras, El29. Karold Simone, Lid., 311 Fuston
nd., N.W.1. Muram 9764. RILEY 9. £118 10a 1930 Monaco saboon, perlectly sound through-
out Ward and Co., 5 Upper Richmond Rd., E. Putpey. 2818. RILEYS. Newnbams have an excellezt selection of Riless available: ow examplea below, but full list on request: celf-fizıanced hire-Durchase crias and gencrous part-oxchango allowanzef arranged.
19329 pp Monaco Plus Ultra sliding-rool saloon, realiy beantiful ear,
f238. 1930 9hp Monaco saloon, daal colours, most attractivo throaghout,
ع125.
19299 hp Monaco twin-carbarctier alcon, one owner, engine, etc., rery good but has been involved in accident and requirea virious repairs, pecial price lo ciear, 245
1928 Shp Monaco saloon, particularly amart and sound, $f 69$.
Newnham Mouse, 237 Hammersmith Rd., London, W.6. Riv. 4646. ${ }_{29} 86$

hiley. Naylor and Root, Led.
1930 Biarritz, taxed December, as new, £ 145.
1930 Nonaco, sun roof, new condition. £139.
1929 Biarritz, completcly overbauled, £105.
1929 Mark IV Monaco, very clean car. £98.
1928 Monaso aaloons, choice of 6ve, from $£ 69$.
Gencrous exchango allowancea; delerred terms.
Naylor and Root, Ltd., 25 East IIIll, Clapham Jauction, S.w.11. 'Phane,
Batteriea 6187.9.
29.162

RILEY 9. Cookes Motora offer: 1928 sa!con, in really nice order, f.w b . farting and lighting, everything works, only wants seeing, a bargain at | Phone terms. and exchanger. 4660 . |
| :--- |
| 29.330 |

Rovefs. Newnhams alraya bate an excefient selection of Rovers parchaso terms and generons part exchange allowances arranged.
1932 10-25 coachbnilt sliding rool Foursome coupe, absolutely faul less througtout, silus.
1931 10-25 coachbuilt aliding rool saloon, most attractire car, s108.
1930 10-25 opening root saloon, maroon, first-class order thronghoat
1929 10-25 asloon, beaztifal appearance and mechanical condition Newnham Elouse, 237 Hammersmith Rd, London, W.6. Rip. 4646.
ROVER. Lane Motors. 1928.9 4-door saloon, 10 hp , really good, 49 guineas. 208 Wicst End Lane, Hampstaad. Upen Sunday sorningl. ${ }_{9}$
ROVER 9, 1925 3-seater, 4 new balloons, fast, economical: exchange ith cash lor Morãan, or aell. Riverbill Cale, Hildenboronab, Kent. $\frac{29,730}{}$
ROVER 10, £104 10s. 1931 coachbuitt de luse saloon, Magna whely, ono owner. nbsolutely as nowi exchanges. terms. Ward and Company.
5 Upper Richanond Ru. E Putacy 2818.
ROVER 10. Savo $£ 50$ on latest $£ 225$ special coachbullt saloon with radiator shutters, real hido upholstery. 4 speeds. Lenmans, 132.3 Lonk
Acre, W.C. Open week-ends. T'emplo Bir $8135-6.7$.
 poven 10 19z1 (late) sportsman' coups, black and red, ike
 EOVER. Soveral in atock. Very keen prices. Send for list or ace uisplayed advertisement in this issue. Naslor and Root, 25 Liast II. 1. . 29.161.
Claptum Junction, S.W.11.

ROVER. Broadway Motors offer 1931 Regal sanshine saloon, Magna whecls, bumpers, leather upholstery, ono owner, very small muleage, in-
distinguishable from vew, £110. 1929 Rover 10 hp sportsman's sunshino coupe, mechanicallv perfect


ROVER, 1931, 1025 hp iports 4 -scater coupa, eliding rool, spperhly equipped, wire wheels, iatety glass, chromiom plated, black finish, red

 Praed St, W 2 (Pad
N.5. (North 4784. )

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

ROVER 10 Conkes Motors offor: saloon, fited sun roof, loather uphol-

 ROVER 10, 1932 de Juxe, list A194, Berfice £160; generous allowROVER 10-25, 1932 conchbuilt sunshino , aloon, \& apeedn, brand ner


## ROVER. J. A. Baster ofters:-

10321025 hp 4 -door coachbuilt sunhhine saloon, 4 -speed model, new End unregistered. sear petiol lank, full makers guarantce, list prico E200, sonnino bargain. S1:7 10s.
$193210-25 \mathrm{hp}$ Rover 4 -seater all-weather tourer brand new and un-

ROVER. F. G. Smitb (Motors), Lid. Rover 10.251931 anortsman's
 ROVER 10, 1932 model saloon. coachballe, bumpers, taxced hnd insured,





 to $£ 65$.
Excbanges and simplest hiropurchase. Neithor references nor securitics required Drive anay samo dag.
 Andrew Antomobiles, 37 Sheen Lanc, Mortlake, 8.W. 'Phone, Prospect
ROVER 10 , 1928 sunshine 4 -door 8aloon, in exceptionally good con-
dition, 44 .
ROVER 10, 1931 . ${ }^{4}$-door coachbuilt anloon, Wire wheels, one owner,
 ROVER 10-25. 1932 coachbuilt sunshine saloon, 4 speeds, brand new and unregistcred. slightly soiled only, £170. K.J. Motors, Bromlcy,
Kent (Ravensbourne $3456-7$. .) ROVERS, under £loo. See page $24 . \quad 29.984$
 coachbuitt sliding-ront seloon, one owncr, beautilui order, ang itral, ROVER 10, very amart 4 -scater 1927, in excellent condition, one owner, a real bargain, $\mathbf{W} 22$. 34a Herclord Rd., Westbourne Grore,
2 G-j798


SALMSONS. Intending purchagera of scoond-hand Salmsons are regucsted to apply to the mazera. Op-to-dato laciltice for repara offered,

SALMSONS. Vadum Co. spocializo in 9.5 bp Salmeona, twin catoshalto tuncd to 50 m.p.h in second, eflortless bigh cruising speed, 35-40 m.n.g. A.A. or R.A.C. inspection telconed; quarterly insurance:
deferred terims; overianata, good used spáres.

62 guiness. 1929\%/4 Grand Prix, underslung. 2-scater, onc orncr.
43 guineas. 1928 4-door saloon.
49 guineas. $1928 \frac{1}{2}$ Grand Prix aloon, 4 doors, large f.w.b., 12 -rolt lightivg and st
39 guinear. 1927\%, Grand Prix drop-head coupo de luxe, dickey seat,
39 guincas. Grand Prix, special engino, ball-bearing crankalaft, 4 spoeds, balloons, Vce screcns, streamlinc coselbuilt bods.

SALMSONS, under £ 100 . See page 24.
29.984

8fLmsON. lato 1925 coachbull 2 -seater sporta, Grand Prix, o.h.o.


SALMSON, 1926 Grand Prix, twin o.h.e., 1.w.b., Starter, eycle wines. many extras, superb throughout, taxed, insured, $\mathcal{E} 2511$ Gillinet, 18
29.1727 SALMSON.
Maida Vaie,
W.9.
SCHNEIDER sports 4 -seater moachbolit body, $10-30$, cutaway driver:


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

 SINGER 9, 1932 saloon, sun roof, slightly soiled, makces suarantec, SINGER Junior, 1931 , saloon, sunchine roof, taxed end of year, ono

SINGER Junior, 1928, new Eearings throughout, new battery, gearbox and crown whels, exceltent tyres, original coachwork, comploto kit,
 SINGER. F. G. Smith 1 Motorn), Led. 1931 coachhuill Neans. licling root, choice of threc faulless cars, from $£ 105$. High Rd., Coournayos.
29-15
SINGER. J. K., Greenwood and Co., Ltd., offer:-
E36. Singer 8 bp super-sports streamlined 2 -seator, quted low long-tailod

 N.W.S. Gulliver $2251-2$.

SINGER Junior, 1930 4-door coachbuilt ealood, dual green anikn,

 ${ }_{9515-6 .}$
SINGER 10. 1925, 2-seater, repainted, nesw hood, good batcers, nearly





 anteo. $£ 135$
Mrurphy,
Prospect
$330 \bar{n}$.
 SINEER Junior, 1932 4-door csachbuile 6aloon, sunshine root. fullest

1931 model, Junior coachbuite 4 -door sunshine saloon, 4 apeeds, rear petrol tank, fullest equipment, smart nppraranco and condition, year's tax paid (Paddington), £79 1Os. Kiry. Below.
1930 8bp 4-door roachbuilt saloon, fully equipprid dash, luggage carricr. excoptionally amall mileage, astounding value (Migbburs), £6-4. Kirk.
1929-30 fres. Novemberi 8hp 4-door coachbuile salonn, fullest ennipment. sery smart appearance ond uncloubtedly, a bargain that you
cannot Letter, tax paid (Paddington), $£ 52$. Kirk. ${ }^{\text {Bolow. }}$, 1929 Porlock sports 2 -seater, fully equipped, wiro wheels, original grecn and grey, exceptionally last and attractivo, carefully used, one
1927 Ohp 4 -scatcr touror, rigid all-weather equipment, full dash, electrin
screcn wiper, good tyres. very smart nppearance, tax paid (Paddinkton), screen wincr, Gnod tyres, very smart nppearance, tax pald (Paddinkton),
ع25. Three-Nonths. Written Guarantce: 50 other cars. Kirk

SINGER Porlock ports, 1929 ghn ${ }^{\text {2-scater. Bodywork good and gool }}$ derarbonized, taxed Senternber. $£ 58$. Christic, 15 ILillworth Rd. Trulso IIil, S.W.2. Temnlo Bar 9265.
SINGER. F.O.C.1L, LTD. 1929 8hp 2-seater, 2-tono maroon, f.N.b.
 faxed Sunday mornings.
SINGER Junior, brand new, unrenktered, slighty shop-soiled, 4 -foor



SINGER. Sale, Augnst 21at-31st. Find-of-season reductions, 120 cars to claar. List freo. Smith and Munter. Below.
1932 Junior sunghine salann, Mark-cresm or blue, choice two, new and unrogistered, to clear, £115. Below.
1931 Junior aunshine asiann, hlark-cream, sery attractivo order, taxed 1929 (April) Jundor 4 -door fallon hrown, loather, tased sear, fully inured Aph. wuperb orda, 25 , Belo

SINGER 8, 1928, 2-icator and dickey, f.w.b. and fill equipment, bluc,



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

81NCER 8, Junior, 1928, 4-door coachbailt azloon, apoticss conditlon,
 SINGER, £15 to £60: exchangealll Sevcral Junior galoon, warera, alno a van, at attractivo pricon. Plase call Chidley, 579b High led.
Tottenham. 'Phone 2920.
SINGER Junior 19318 bp coachbuilt aloon, anlsbed in maroon and cromm, in excellent condition throughout,
$164-168$ Fulhem Palace Id., V.6. Fulham 0071 . Nownhama, Ltd.,
$29-285$
 SINGER Junior tourcrs and aloona, 235 to 265 ; ready to drise away taxed, insured and guaranted thren months. 100 popalar makes
in atock, from $x 10$ to $£ 65$. Exchanges and simplest birc-purchase. Neitzer references nor securitics equired
Example: Singer Junior, taxed, Insured and cuarantced, f54, or s18 dopont and 12 montbly payments of $£ \overline{3}$. "Solf-gnanced" hiro

SINGER Porlock sporta, s54 to s68, ready io drive awiy, taxed, insured and guarantecd threo months. 100 popular mokes in atock, Fachanges and simplese hire-purchase. Neither referencea nor securtiea
requiredi drive away same day.
 purchaso.
Andrewi Automobiles, $\overline{3} 7$ Sheen Lane, Mortlake, S.W. 'Phone, Prospect SIPGERS, under floo. Sco pago 24 29.986


 SINGER, 1929 , Porlock sports, complotely overharaled by us, including now pistons, elc., chiromism plated and oversized tyres, smart carmand
runs well, any trai, 35 sumeas. C'amden Motora, behind Camaen
Town Unierinound Town Uadergiound.

SINCER Junior. Phillpa and Powis (Motora, Ltd., offer:-
Brand-new and unregistered 19328 hp conchbaile sun asloans. 4 speded
 SINGERS. Newnhama aiwaga bave an excolleat selection of Siagera availablo: few examplea below, but full list on requeat: acliffonanced biro1932 8bp 2 -seater, dual maroon, almost as new, \&105.
1931 8lip coachbuitt sliding-rool saloon, very amart and generalls attrao-
1929 日bp coacbbuilt aloon, daal bluo, bcaqtiful littlo car. £49.
Nowobarm Houso, 237 Hammersmith Rd., London, W.6. Riv. 4646.829
SINGERS. Lane Motore for Singera
1932 Kaso Don 8up saloon, 129 guincas.
1929 8hp Porlock sporta, 35 guincas. 208 Wost End Lane, Hamp-
atead.
Upon Sunjay mornings.
SINGER Junfor, brand-ncw 1932 4door coachbuilt sinibine asionn, 4 apecua, unregisterod, choice of colour, list prico. . 150 exceptonai


SINGER, f25!11 1927 coachbinlt 6-eylindor salcon, ready for use. llenmang, $132-3$ Long Acre, W.U. Open weelrends. 「emplo isar
8135-6-7,
SINCER. Six in stock. Best valne. Send for list or ico displayed

SINGER Junlor, 8hp, 1930 (Augnst) apeclal aports 2-seater, black and red, various extras, cycle-tspo winge, pagation apholiory, excellen condftion, ono owncr ${ }_{4}$ 250. 24 St. Peter'a Grovo, Hammersmith.
Riveraldo 4652 .
SINGER Junior saloon, 1932. A doora 4 anecds, aliding roof. list price


SINGER Junlor, 1929 8hp 4-door saloon, finghed blue, almost new Fort Dunlops, dock, apeclometer, etc.i. Ared till Derember, beautiful London iv. 3
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Kinge 1000 (7 lines). Kinge 1000 ( 7 linea).
STANDARD 9, 1931 Swallow maloon, 4-speed, laxed rear, mileage
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1932 Little 9 maloon de laxa black-crearn. Triplex, bumpers, as new throughout, guarantced, tax paid, e135. Helow.
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29-116
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