AUTOSPORT.

BRITAIN'S MOTOR SPORTING

NOVEMBER 11, 1960

1/6

EVERY FRIDAY No. 20

Registered at the G.P.O. as a Newspaper



IN THIS ISSUE

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If you are not an M.C.C. member you may not know what an enjoyable and worthwhile week-end the 'Exeter' offers. Referred to by the motoring press as "the trial with an atmosphere all its own".

Starts Friday evening, 6th January, from Launceston, Kenilworth and London, and (after about 300 miles) finishes at Weymouth on Saturday, 7th January, with an informal dance and social evening at the Gloucester Hotel.

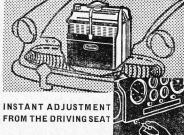
ENTRIES CLOSE 8th DECEMBER, 1960

Full details from J. A. Masters, Gen. Sec., M.C.C., 22 Norland Square, Kensington, London, W.11.

Get-a-way... from winter sluggishness III I MORY RADBLIND

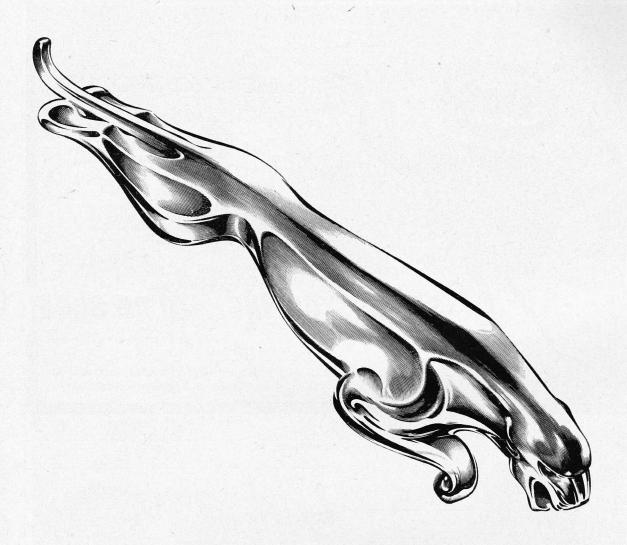


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Model	YearYear	
Name		



A special kind of motoring which no other car in the world can offer

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THE ENTIRE JAGUAR RANGE OF MARK IX, MARK 2 AND XK150 MODELS CONTINUES FOR 1961. Optional extras available will be power-assisted steering on the 3.4 and 3.8 litre Mark 2 models and an additional range of metallic colours for all models.

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AUTOSPORT

BRITAIN'S MOTOR SPORTING WEEKLY

Registered at the G.P.O. as a Newspaper

Vol. 21 No. 20

November II, 1960

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EDITORIAL

R.A.C. RALLY OF GREAT BRITAIN

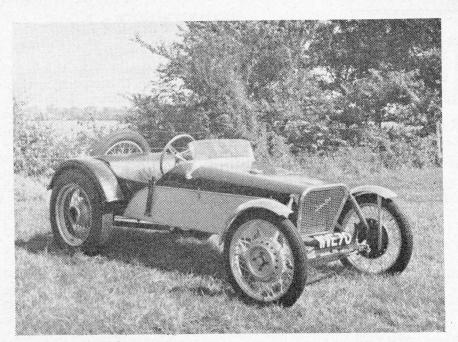
THIS month's International R.A.C. Rally promises to This month is international River. As I have been best of the series. By concentrating much of Special the the competitive side in the Highlands of Scotland, the organizers have shown a true appreciation of sections which not only require a high degree of driving ability, but, being on little-used roads, need cause no offence to local inhabitants. Indeed, people in the Highlands are looking forward to the event, and all competitors can be assured of a fine welcome. Again, the Scottish counties police have shown all possible desire to cooperate, which is a tribute to the joint efforts of the R.S.A.C. and the R.A.C. Foreign participation is the largest ever in a British rally: the European Touring Championship will be settled, a fact that has produced official "works" teams from Citroën of France, and Mercedes-Benz of Western Germany. It adds prestige to Britain's premier road event that the United Kingdom should be the scene of a battle for the blue riband of the rally world.

RIVERSIDE

For the first time a World Championship Grand Prix event takes place on the West Coast of the U.S.A. At the fine Riverside Raceway, near Los Angeles, the world's top-line road racing drivers will compete in the second Grand Prix of the U.S.A., and bring a new type of motor racing to Californian enthusiasts. Although the Championships are not at stake, the event is of vital importance to the future of Formula 1 racing in the Western Hemisphere. Whilst no one can rob Indianapolis or Daytona of their significance as high-speed track events, there is an ever-increasing public in the Americas for the classic European-style of single-seater racing. It is beyond doubt that an enormous crowd will converge on Riverside on 20th November to make the occasion one of the most important in the history of American racing. Despite its drawbacks geographically, the credit for the new enthusiasm for G.P. racing must go to Alec Ulmann, Reg Smith and all the rest of the Sebring crowd for their enterprise in introducing European Formula 1 racing to the U.S.A. There is no doubt that, given sufficient encouragement, American racing car manufacturers have available the technical knowledge to build a car to the European Grand Prix formula that would be capable of matching anything that may come from British or Continental stables, and events such as Riverside, Sebring and so on will do much to provide the necessary encouragement. The lack of success achieved by the Reventlow Scarabs last season should not give cause for complacency in this direction, either, for Rome was not built in a day, and some of our own contenders in the $2\frac{1}{2}$ -litre formula showed no greater promise for several years.

OUR COVER PICTURE

MOMENT OF TRIUMPH: A happy smile crosses the face of Reg Parnell as he arrives at Madeira Drive, Brighton, at the end of the 1960 veteran run. His machine is a 6 h.p. De Dion Bouton of 1903, owned by the Montagu Motor Museum.



B.A.R.C. STAR FOR PAT MOSS/ANN WISDOM

THE Duke of Richmond and Gordon announced on 4th November at the annual dinner of the B.A.R.C. that the club's Gold Star award would be given to Pat Moss and Ann Wisdom, the first time this has been given to any women drivers.

As usual, John Morgan and his aides organized a superb party, with a really top-line cabaret. Raymond Baxter was in scintillating form when he replied for "The Guests"

The racing and rally world was well represented, the list including Jack Brabham, Stirling Moss, Bruce McLaren, Roy Salvadori, John Cooper, Colin Chapman, Graham Hill, Les Leston, Peter Jopp, Henry Taylor, Ken Tyrrell, Eric Haddon, Charles Vivian, Mike McKee, Ken Gregory, Peter Pilsworth, Reg Parnell, John Dalton, Tony Brooks, Sidney Allard, Richard Shepherd-Barron, Bob Staples, and others.

MALLORY PARK M.R.C. DINNER-DANCE

THE Grand Hotel, Leicester, was crowded on 2nd November for the annual dinner-dance of the Mallory Park M.R.C., with Clive Wormleighton in the chair, and John Dalton as toastmaster. Dickie Davies, Dunlop's motor-cycle expert, replied for "The Guests", and made several attempts to convey his "sinthere thanks to Cynthia", who is, of course, Miss Queensborough, known to all and sundry as Miss Mallory Park, who is responsible for most of the organization side.

The Club's Trophy for the best performance of the year went to Mike Hailwood, and Clive Wormleighton produced a handsome new trophy which has been presented to the club for car entrants, by president Bob Gerard.

THE British Racing Mechanics dinner is to be held at the Criterion Restaurant, Piccadilly, W.1, on Friday, 25th November. Anyone wishing to go should contact Eddie Bowler, 7 Douglas Avenue, Wembley, Middlesex, from whom tickets (32s. 6d.) may be obtained.

APPEAL FOR JAGUAR INFORMATION

LORD MONTAGU OF BEAULIEU has been commissioned to write the history of the Jaguar Company for publication next year. This will be the third of a new series of Montagu Motoring Books, first one of which is to appear shortly.

In order that this history should be as complete and objective as possible, Lord Montagu has appealed for anyone with any knowledge, especially of the earliest days of the Swallow sidecars and special bodies, and the S.S. cars, to contact him at the Montagu Motor Museum, Beaulieu, Hants. All letters will be acknowledged and all material loaned will be returned. This book has the blessing of both Jaguar Cars, Ltd., and the Jaguar Drivers' Club. complete and objective as possible, Lord and the Jaguar Drivers' Club.

THE R.A.C. announce that the Segrave Trophy is not to be awarded for 59. Donald Campbell received the Trophy in 1958 for his outstanding performance in raising his own Water Speed Record.

CHALLENGE to the all-conquering Cannons in the trials field may well come from this new machine designed and built by Bertie Sayers, of Gisborne Road, Cambridge. Called the Aberties, it is intended to build more of these machines.

}}}

SPORTS NEWS

HENRY TAYLOR will be driving a Ford Anglia in the Monte Carlo Rally; he has never competed in the event before.

GERMAN HILL-CLIMB CHAMPION-SHIP—SCHORNDORF

Hans Herrmann, Porsche RSK 60, 2 mins. 01.1 secs. and average speed of 92.2 k.p.h., new record. This was the highlight, together with another win by the old champion Hans Stuck, winning the 700 c.c. class, driving a BMW at 77.6 k.p.h.

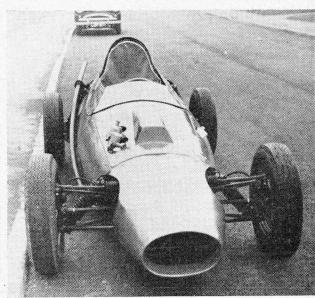
Sports cars up to 2 litres: Herrmann (Porsche RSK), 92.2 k.p.h. Junior Formula: Ahrens, Jun. (Cooper), 89.5 k.p.h. Grand Tourisme, 850 c.c.: Lohsträter (Fiat Abarth), 79.3 k.p.h. 1,000 c.c.: Häring (DKW F 93), 76.7 k.p.h. 1,300 c.c.: Geither (Alfa Romeo Zagato), 83 k.p.h. 1,600 c.c.: Günther (Porsche Carrera), 84.2 k.p.h. Over 1,600 c.c. Mahle (Mercedes 300 SL), 85.4 k.p.h.

Speedwell telescopics are available for all cars originally fitted with telescopic type dampers and in the form of conversion kits for cars fitted with Lever type dampers. These kits now cover the following cars:

g Cars:
Riley 1.5
Wolseley 1500
Morris Minor
A.55 Mark II
Wolseley 15/60
Morris Oxford V
Riley 4/68
Ford Anglia 105E Rear only

The price of these conversion kits with mounting brackets is £12 complete. The price of the telescopic shock absorbers on their own is £8 15s, per pair. Speedwell telescopics are guaranteed for two years against faulty workmanship or materials. For further information please contact Mr. L. Arnstein.

NEW FORMULA JUNIOR machine is the front-wheel drive Elfin produced by Peter Emery on the lines of his successful 250 c.c. racing car. B.M.C. or Ford engine is used, and the multi-tube space-frame has allround independent suspension.



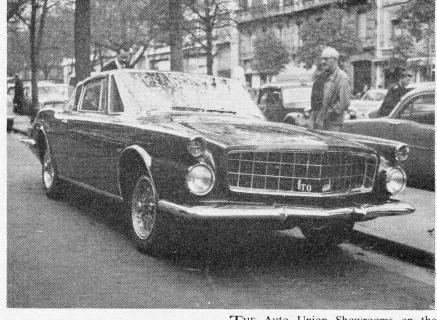
PIT and PADDOCK

The Italian coachbuilding concern Ghia have been busy producing very stylish versions of current Chrysler models which will be exhibited at the Turin Motor Show. A Valiant appears with extremely attractive Gran Turismo bodywork and Borrani wire wheels with knock-off hubs.

The "300" has the very powerful Chrysler V8 engine with ram induction, and "dished" disc wheels. Lavishly equipped, the interior of this car is a joy to behold. Provision is also made for air-conditioning units to be installed in both cars.

Undoubtedly these new Ghia productions will find a ready market in U.S.A. amongst people who want something different, yet backed by an important manufacturer.

It is anticipated that there will also be a Ghia Lancer in the near future.





Canada's *Track & Traffic* magazine have awarded their car of the year prize to B.M.C. for the Mini-Minor and Austin Seven.

BOB MCINTYRE is the latest motor-cycle ace to be thinking in terms of four wheels, and will shortly be given trials by a prominent team manager.

WOLFGANG SEIDEL has entered for both the Cape Grand Prix at Killarney on 17th December and the Caltex sponsored seventh R.A.C. Grand Prix at East London on 27th December.

A STANDARD model Facel Vega HK 500 saloon has recently completed a flying kilometer at 147.354 m.p.h. with a best time of 149.436 m.p.h. The times being verified by the Belgian R.A.C.

Colin davis is virtually Formula Junior Champion of Italy, and has won the "Auto Italiana Sport" Trophy for best aggregate in Cuba, Vigorelli, Monte Carlo, Albi, Monza, Messina, Pescara, Austria, Modena and Syracuse. He drove for Osca, Taraschi and Stanguellini. New Zealander Denis Hulme (Cooper-Austin) was third, and Henry Taylor (Cooper-Austin) sixth.

VIEWS of the new Ghia versions of the Chrysler Valiant (top) and the "300" (above) show extremely neat and attractive bodywork, with unusual front-end treatment featured on the "300". This car has the powerful ram-induction engine.

Scuderia Ferrari have now signed Phil Hill, Taffy von Trips and Ritchie Ginther for 1961 Formula 1 races. Gendebien and Mairesse have not, so far, been offered terms.

GRAHAM HILL has rejoined B.R.M. for 1961, and is, of course, going to Riverside along with Bonnier and Gurney.

A SPECIAL body lightweight Aston Martin DB4 G.T. Zagato was sold on the opening day of the Earls Court Motor Show to the well-known patron of motor racing, Mr. R. S. Wilkins.

MORGAN-MINTEX, LTD., is the new concern formed by the Morgan Crucible Co., Ltd., and British Belting and Asbestos, Ltd. In addition to the well-known Mintex materials, the company will also manufacture Sinterlink equipment.

THE Auto Union Showrooms on the Great West Road, Brentford, will be open from 8 a.m. until 7 p.m. on weekdays and from 8 a.m. until 5 p.m. on Saturdays.

The second Racing Car Show, organized by British Racing and Sports Car Club, will be held in both the Old and the New Halls of the Royal Horticultural Society, Westminster, London, S.W.1, and will be open from Saturday, 31st December, 1960, to Saturday, 7th January, 1961. The 22 exhibitors have risen to no less than 73 and there will be more racing cars on show than before. These will include all the 1960 champions, as well as a section of historic racing cars and many others, details of which will be released in due course.

JOHN DAVY CHAMPIONSHIP Latest Positions

The latest positions in the John Davy Championship based on 1960 Formula Junior races at Brands Hatch are, after the meeting on 16th October, given below.

The final round is on Boxing Day when either Jimmy Clark or Peter Ellis can take the title.

can take the title.

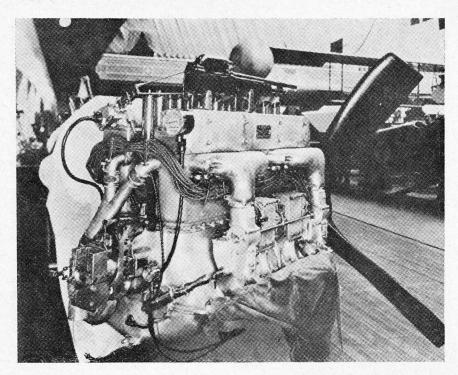
1, Jimmy Clark (Lotus), 16 points; 2, Peter Ellis (Lotus), 13; 3, Peter Arundell (Lotus), 9; 4, Tony Magss (Gemini), 7; Graham Warner (Gemini), 7; Trevor Taylor (Lotus), 7; John Brown (Lotus), 7; Chris Andrews (Lotus), 7; 9, Peter Ashdown (Lola), 6; Brian Hart (Terrier), 6; 11, D. G. Addicott (Elva), 5; John Surtees (Cooper), 5.

GRAND PRIX OF THE U.S.A.

It is fairly definite that Ferrari will be non-starters at Riverside on 20th November, and Porsche will not race their present 1½-litre cars in a full-scale G.P. for 2½-litre machinery. Provisional list of entrants to date is:

Ist of entrants to date is:

B.R.M.: Hill, Bonnier, Gurney. Lotus:
Ireland, Clark, Surtees.
Brabham, McLaren. Cooper-Climax
(ind.): Salvadori, Rodger Ward, Henry
Taylor, Gendebien. Cooper-Maserati:
Trintignant, Gregory. Cooper-Castellotti:
Scarlatti, Cabianca (or Munaron). Lotus-Climax (Walker): Moss. Scarab: Daigh.
J.B.W.-Maserati: Naylor. Lotus-Maserati:



The Bugatti Engine — Type "King"

A Rarity which Led to Types 45 & 47: said to be the only Bugatti built outside France

Our story begins in 1917. The United States of America had declared war on 6th April and on 16th May the Air-craft Production Board was organized. Entering the conflict with a most rudimentary aircraft industry, America's chief asset lay in the nation's automobile plants, in which the factories were keyed to mass production. The problem was to put that potential to its most effective use in the war effort.

The Bolling Commission, appointed by the APB and under the direction of Major Raynal C. Bolling, was sent to Europe in June. One of its missions was to find an aircraft engine that could be produced in quantity by the automobile plants—an engine, with adequate power available, to remain competitive into 1919. It was generally assumed that the war could very well last into the 1920s.

While the aircraft industry in Europe had, under development and test, some 80 different aero engines, it was the philosophy of the APB to concentrate efforts on the mass production of one

or two standard types.

Major Bolling was a flying enthusiast of long standing. In the Spring of 1917, while serving at the age of 41 as the youngest general counsel in the history of United States Steel, he was instrumental in organizing the First National Guard Aero Squadron with headquarters at the Garden City, Long Island aerodrome. Garden City, Long Island aerodrome. Strangely enough, by today's standards, the unit was equipped by means of private donations: \$59,000 from the Aero Club of America, \$10,000 from Mrs. William K. Bliss, and \$1,000 from William K. Vanderbilt. Lt. Bolling was promoted to Captain just before the U.S.A. entry into the war, and was made a member of the APB.

Ettore Bugatti had been just as busy. With the Molsheim plant in Germanoccupied territory, Bugatti was operating

BY RICHARD POE

a new plant at 86 Rue Chaptal, Levallois-Perret, Seine. The efforts of the firm were being concentrated on the design and testing of an aircraft engine.

The first engine completed was a single overhead camshaft 742 cubic inch in-line 8, weighing 510 pounds. With a bore and stroke of 4.3 inches (110 mm.) and 6.3 inches (160 mm.), the cylinder block was one casting. Two shaft-driven magnetos were mounted on the right side with two up-draught carburetters on the left. The gear-driven prop shaft was above and to the right of the crankshaft centre line. His first "eight" for an automobile was the Type 30 of 1923.

Unfortunately, the horsepower rating of 220 was wholly inadequate to compete with the German Mercedes, or with Rolls-Royce, Hispano-Suiza, and Lorraine-Dietrich. The engine did, however, have two desirable features. The in-line design was quite free from vibration and would make fuselage streamlining a simple task.

Other European manufacturers were concentrating on the rather bulky 45 and 60 degree Vee designs and the Gnome and Le Rhone rotary types.

During the winter of 1916-17, Ettore Bugatti designed and built the prototype

of the engine that would become known as the King-Bugatti. The engine included at least three more Bugatti firsts, SHOWING the cannon at the rear and the Marlin automatic rifle on the cam cover. The side plate on the cam cover was the last change made to the King-Bugatti engine.

namely, his initial attempt at building a 16-cylinder engine; the first Bugatti to feature the now traditional square cut engine block; the first to use the cylinder castings in separate blocks of four cylinders, each with sheet steel water jacket.

Retaining the desirable features of the original in-line layout, Ettore took a direct approach to the horsepower problem. He mounted two parallel vertical rows of eight cylinders on a common crankcase, each row driving its own crankshaft. The two cranks turned the propeller shaft through reduction gears. If eight cylinders would put out 220 horses, 16 should, in theory, at least double the power.

Included in the design was the provision for a 37 mm. cannon barrel to pass

through the crankcase above the shafts and fire through the hollow prop hub. The French air ace, Guynemer, had found that the heavy calibre cannon firing buckshot was a most effective air-to-air weapon. Glycerine, warmed by the crankcase oil, was used in the recoil mechanism. The slide fitting for the barrel in the crank webs was lubricated by the same oil.

Between 9th and 16th November, the first official tests of the engine were made with members of the French Technical Section and the Bolling Commission as observers. During those eight days, the engine ran a total of 37 hours. Failures were attributed to three fractures of the water pump shaft and a broken piston pin. The test came to a final halt at 10.10 p.m. on the 16th. An American sentry stepped or fell into the whirling propeller and was killed.

While no horsepower or fuel consumption curves were obtained in that initial run, the 1,067 pound engine developed a maximum of 420 h.p. at 1,980 r.p.m.

Members of the Bolling Commission, in spite of the incompleteness of the test and the problems encountered, felt that the 16-cylinder engine had definite possibilities. When the necessary licens-ing arrangements had been made to build the engine in the United States, the "16" and the "in-line 8" were shipped to the APB test and research centre at McCook Field (now the Wright-Patterson AFB), Dayton, Ohio. I can find no record of the smaller engine having been tested here, and no trace of its whereabouts

The chief of the APB engine section, Lt. Harold Emmons, decided to turn the further development of the "twin-8" over to the Duesenberg Motors Corporation in Elizabeth, New Jersey: this plant had been tooling up to make the Liberty aircraft engines. Mr. Charles B. King, an outstanding automobile engineer and reputedly the first man to drive an automobile on the streets of Detroit, was placed in charge of the project.

The French engine was shipped to Elizabeth and the first tests made on 23rd February, 1918. Three Bugatti representatives, Sgt. E. Fredericks and Messrs. Shepfer and Lucks, had been sent from France to assist the Duesenberg staff. During its 20 minutes' running time, 400 h.p. was developed at 1,800 r.p.m. with stops for an oil change and to extinguish a fire in one of the

A DIRECT cam driven distributor on the cast cam cover was one of the inter-esting features. This 16-cylinder (two eights on a common crankcase) was designed primarily as an aircraft engine.

carburetters. When torn down for inspection, three bearings were burned, two pistons were cracked, a cylinder block and a connecting rod broken, and one of the crankshafts sprung. The latter was probably the result of an accident in Paris.

By the time this test and inspection had been completed, the first of the redesigned engines was ready for the dyna-mometer. In all, nine King-Bugattis were to be tested by Duesenberg before

the final 50-hour test run.

It was just prior to those tests, on 26th March, that the news that Colonel Bolling had been killed in action was confirmed. Taking a wrong turn not far from Estees, France, his staff car came under German machine gun fire. He died while returning the fire with his service revolver. A statue in memory of Colonel Bolling now stands on the main street of Greenwich, Connecticut. The Bolling Memorial Redwood Grove in Humboldt County, California, was named in his honour.

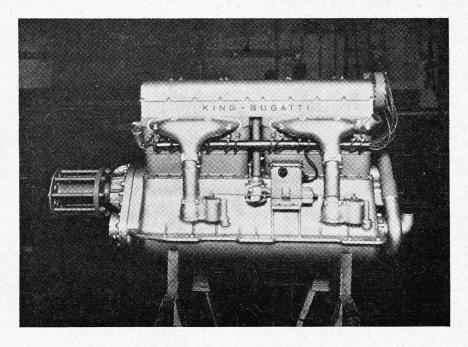
On the tenth try, the King-Bugatti finally got through a 50-hour test successfully. The test was run in 10 periods of five hours each. In each period, the first half-hour was at 410 h.p., the remaining four and a half hours at 380 h.p. Conducted under the personal supervision of Charles King, the only adjustment necessary was the replacement of 11 sparking plugs. When the engine was torn down, it was found that four or five valve springs were broken and two pistons cracked. They apparently had no effect on performance. The engine had developed 503 h.p. at 2,400 r.p.m. Prior to the test, the engine had been through a 10-hour running-in period and the prop drive through 30 hours.

In the previous series of tests, the King-Bugatti engine number five had been approved by a special French commission sent to Duesenberg. Although the magneto had been wrongly timed, and the oil pump had not fully emptied the sump due to an air leak, they considered the development of 410 h.p. at 2,130 r.p.m. as satisfactory. The engine was shipped to Lt. Emmon's headquarters in Detroit on their orders. Lt. Schupp, the Air Service representative at the test, objected-but to no avail. He felt that the test did not justify placing the engine in a service aircraft.

In July 1918, the APB had placed an order for 100 of the engines. They increased the order by an additional 100 in August. According to a report from Duesenberg, 40 of the engines had been accepted by the government by 7th October. A month later, the war was

The series of tests and examinations of the engines by Charles King and his staff, running from 14th May until 23rd September, had quite naturally led to changes in the production version of the King-Bugatti from its original French prototype.

The cast iron cylinder blocks were modified to allow a freer circulation of water and the valve seats were spaced farther apart. This eliminated the hot



spots around the exhaust valves that had cracked the valve seats in the original version. The centrifugal water pump was changed to prevent any leakage from entering the sump and to provide water cooling for the shaft. In addition, the sheet-steel water jacket that had been welded to the block was changed to screw fastened aluminium. On the French engine, water was fed into each jacket separately and between the rows of cylinders. Assembly was difficult and necessitated the removal of the exhaust system for repairs. In the U.S. version, water entered at the top rear of the block and flowed forward. Total capacity was 4.25 gallons. Tooled steel rocker arms replaced the chrome nickel ones and the necessary machining operations reduced from 14 to four. A considerable saving on an engine with 48 valves!

The French five ring pistons were dropped in favour of the more commercially available three ring slipper type. Piston pin diameter was increased by \(\frac{1}{8} \) inch. The two corrected the problem of exhaust smoke and pin breakage.

The main bearing liners were changed from steel to bronze. The original engine did not use liners for the connecting rod .014 inch babbit bearings. King added the bronze liners with .047 inch babbit.

The tests had shown that Bugatti's non-pressure type oil system would not give uniform and reliable lubrication. On the production model, two rotary gear pumps were used, one to drain the forward end of the sump as the plane dived. In climbing, flow to the oil reservoir was by gravity with the line entering the rear of the tank to prevent flow back in diving. The second pump, at 30 p.s.i., forced oil from the reservoir to the crank and crank bearings, then to the hollow cam which sprayed the springs, rockers, valves and bearings. By gravity, the oil returned to the sump by passing over the prop shaft bushing. The cam and magneto drive gears were lubricated by spray from the crankcase, as were the crank-shaft and prop main bearing, cylinder walls, and so on.

After trying Zenith, Stromberg, and the original Bugatti carburetters, it was decided to standardize on four special Millers with $1\frac{7}{8}$ ins. choke, and jets number 76, 76, 71, 68, 57 and 53. Number 76 was the idling jet with others opening progressively as the throttle was advanced. They were set low for gravity feed, there were no lefts or rights, and were synchronized by adjustable coup-Each was equipped with a high altitude control that reduced the vacuum in the float chambers to allow faster fuel flow. On the original engine, one float was forward and one to the rear of the jets. In climbing or diving, the mixture was changed.

The separate magneto-distributor set up was changed with a saving in weight of 40 pounds. The King-Bugatti was equipped with four Dixie magneto-distributor combination units, cross-wired so that either side could operate the engine independently. A separate hand-operated mag was to be in the cockpit to facilitate starting. The drive shafts were changed in the gearing to make timing easier. In the U.S. test of the original engine, there was over four degrees difference in the timing of the two shafts.

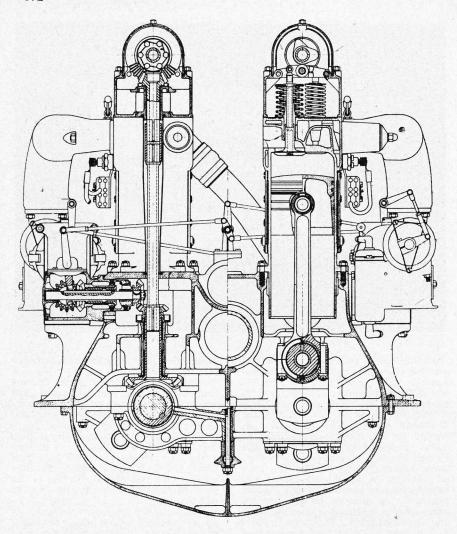
Hollow stem valves were used with cast iron guides pressed into place. It was felt that both changes would allow better cooling. The original guides were screwed into place. There were two con-

centric springs per valve.

The major defect found in all the engines was in the crankshafts. In two out of three runs, the crank broke between cylinders 7 and 8 left. Four causes were found. The cranks were made of carbon rather than chrome nickel steel: each had been improperly tempered. The forging and quenching temperatures had been too high.

Each crank was forged in two pieces and connected at the centre by a taper and key drawn tight by a nut. The throws of each half were on one plane (180 degrees) with assembly of the halves made at 90 degrees. When the engine was assembled, number 8 throw left was on TDC while number 8 right was 45 degrees past BDC.

The connecting rods were found to have the same defects and were corrected. In January 1919, Duesenberg was continuing its experiments with a King-



Bugatti equipped with two carburetters and two special Dixie magnetos. The King-Bugatti project ended with the closing of the Elizabeth plant the following month.

Also after the war, Ettore Bugatti and the Societe Anonyme des D'Aviation Louis Breguet, Rue de la Pompe 115, Paris, combined their talents to develop the Breguet-Bugatti Multiple Power Plant. An extension of the King-Bugatti, the idea was to be competitive in the aircraft engine horsepower race of the

Two of the vertical 16-cylinder engines were placed end to end. The forward of the two was mounted at a higher level. The four crankshafts were geared to a common prop-shaft carried on special bearings under the crankcase of the upper (forward) engine.

To synchronize the crankshaft the propeller shaft speed, an automatic clutch operated by axial thrust, was put between each crankshaft and its prop gear. If a crankshaft was being driven at a speed less than that of the prop-shaft, the device would declutch. After regaining the proper speed, the clutch would re-

ABOVE: Transverse section of the engine showing the camshaft and magneto drive. This clearly shows its advantage over the bulky V.8. engage the system. Breguet and Bugatti were also working on the further development of the vertical 16. The clutch system was also used on a Breguet-Bugatti made up of two of the 16s mounted bottom to bottom vertically.

The programmes were unsuccessful. By 1930, neither firm was listed by Janes as being in the aircraft business.

However, those years of work on aircraft engines was to prove of value to Ettore Bugatti. In 1929, the Molsheim firm brought out its Type 45 automobile engine. Using the same basic layout of the King-Bugatti and his original aircraft

engine with 16 cylinders, the bore and stroke were 2.36 ins. and 3.3 ins. Displacement totalled 231.8 cu. ins. Each row of eight cylinders was fed by a Roots-type blower and Zenith carburet-

In 1930, came the Type 47. Bore, 2.36 ins. Stroke, 2.59 ins. Displacement, 180.13 cu. ins. The 1,850 lbs. engine was rated at 300 h.p. There were three vertical valves per cylinder, and nine roller bearings for each of the two crankshafts. The overhead cams were driven off the rear of the cranks. Each cam drove a blower with Zenith carburetter at engine speed. The two magnetos were driven by the cams via flexible

Perhaps it would have been good psychology to have retained the provision for the 37 mm. cannon!

Just how many of the King-Bugattis were built over and above the 40 accepted by the government is unknown. There is also no record of the engine having been actually used in an aircraft.

To my certain knowledge, there are just two of the engines in the United States. One is in the collection of the National Air Museum of the Smithsonian Institution in Washington, D.C. other is in the United States Air Force Museum at Wright-Patterson Air Force Base, Fairborn, Ohio.

Acknowledgments. May I express my appreciation and gratitude to those whose co-operation and assistance have made this story possible: Mrs. Raynal C. Bolling, Mr. Royal Frey of the U.S.A.F. Museum. The staff of the National Air Museum. The publishers of Janes all the World's Aircraft for permission to use their photographs. The publishers of Automotive Industries for permission to use their photographs. mission to use their photographs.

General Specifications-King-Bugatti Engine.

General Specifications—King-Bugatti Engine.

Type: In-line vertical 16, two rows of eight cylinders in blocks of four, cast iron, water cooled.

Weight: 1,170 lbs., dry, less exhaust stacks.

Length: 44.25 ins.

Width: 24.8 ins.

Height: 32.28 ins.

Bore: 4,33 ins. (110 mm.).

Stroke: 6,33 ins. (160 mm.).

Displacement: 1,484,288 cu. ins.

Normal b.h.p./r.p.m.: 410/2,000.

Pistons: Crowned aluminium.

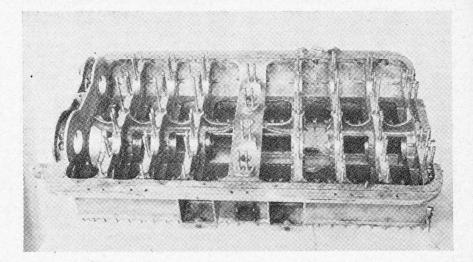
Compression: 5 to 1.

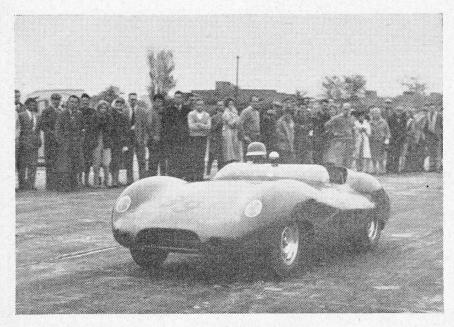
Pistons: Crowned aluminium.
Compression: 5 to 1.
Ignition: Four Dixie 800 magnetos, 38 deg. advance, clockwise rotation.
Plugs: AC Titan, two per cylinder.
Firing Order: 1L, 7R, 5L, 4R, 3L, 8R, 7L, 2R, 4L, 6R, 8L, 1R, 2L, 5R, 6L, 3R.
Carburetters: Four Miller Special.
Valves: Diameter: two inlet, 1.535 ins.; one exhaust, 2.263 ins. Seat angle, 10 deg. Lift (inlet), 0.653 in.; (exhaust) 0.700 in. Spring, two concentric per valve. Clearance (inlet and exhaust), 0.015 in. Actuation, single o.h.c, and rocker arms.

exhaust), 0.015 in. Actuation, single rocker arms.

Crankshaft: Two-piece formed, eight throws at 90 deg., 96.5 lbs. each.

Camshaft: Two-piece shaft-driven.





CHESTER MOTOR CLUB CHANGE VENUE OF QUEENSFERRY SPRINT S. J. Diggory (Lister-Jaguar) Makes B.T.D.

The Chester Motor Club's Queensferry Sprint meeting, one of the oldest events of the Northern calendar, for 1960 changed its venue. Since its inception this meeting was always held on the main driveway to John Summers Iron Works, but this road, always on the narrow side, has now been bisected by an island.

On Saturday, 22nd October, by very kind permission of the Officer Commanding R.A.F. Station Sealand, a long, disused runway was offered and gratefully accepted. The Chester Club, working like beavers, cleared a half-mile section of this to the tune of some 30 yards in width, the surface being of solid concrete, and apart from a breakdown of the electrical timing apparatus a successful afternoon's sport ensued.

Class 1, for sports cars up to 950 c.c. and 750 Formula cars, proved a fairly easy win for E. Carden (Berkeley) in a time of 29.2 secs. Second was G. B. Tofts (750 c.c. Austin). Class 2 was for sports cars up to 1,300 c.c. and allowed J. T. Butterworth (Lotus) to win with a run in 27 secs., his runner-up being D. S. Baldock (T.V.R.) in a time of 29.6 secs.

run in 27 secs., his runner-up being D. S. Baldock (T.V.R.) in a time of 29.6 secs. Class 3 (sports cars up to 2,000 c.c.) provided a first for J. R. Kennerley's TR3A when he clocked a time of 27.2 secs. Next came J. P. Hacking's very pretty Porsche Super 90 with a time of 28.6 secs. Class 4, for unlimited sports cars, went to S. J. Diggory driving his "second string" car, the space-frame Lister-Jaguar, with a run in 21.4 secs. Next came R. F. Parry, in an H.W.M.-Jaguar, with a run in 22.8 secs. Class 5, for racing cars up to 1,100 c.c., was taken by J. T. Butterworth (Lotus) in 27 secs. from K. Moore, in a Kieft-Norton, in 31.1 secs.

Class 8 (racing cars up to 2,001 c.c.) went to A. B. Bell's supercharged M.G.

RUNNER-UP Jim Berry, who was unfortunate enough to suffer from a fluffing motor on his best run, had to be content with second fastest time, 0.4 sec. behind Diggory. in 27.2 secs. The only other entrant in this class, namely, H. Clifford, was unfortunate enough to break a drive-shaft on his G.P. Alta.

Class 9, for unlimited capacity racing cars, provided B.T.D. when Diggory took his Lister-Jaguar over the line to the tune of 20.4 secs., beating J. H. Berry's E.R.A. by 0.4 sec. The latter, in his best run of 20.8 secs., suffered from a fluffing motor. Last but not least came a very large handicap class for production saloons worked on a rather complicated formula which seemed to be enjoyed by one and all!

FRANCIS PENN.

NORTH WALES CAR CLUB, CAMBRIAN RALLY

This year's Cambrian was without doubt the toughest in the series to date. Out of 32 starters who set out on the 200-mile navigation section from that most obliging filling station, "The Lion", near Gobowen, only 18 were classified as finishers.

SETTING OFF to make B.T.D., Jim Diggory, driving the space-frame Lister-Jaguar, recorded 20.4 secs. at the Chester M.C.'s successful Queensferry Sprint.

This was another of the "no nonsense" rallies that are getting more popular. The route was given out an hour before the start and the order as the cars started.

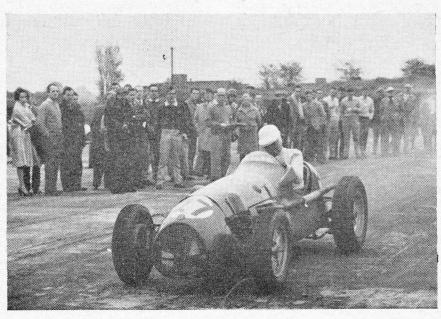
A lot of hopes were dashed very early on between controls two and three, near Llyn Moelfre, where a very tempting white road petered out into a very muddy field. It took 45 minutes to extract six cars!

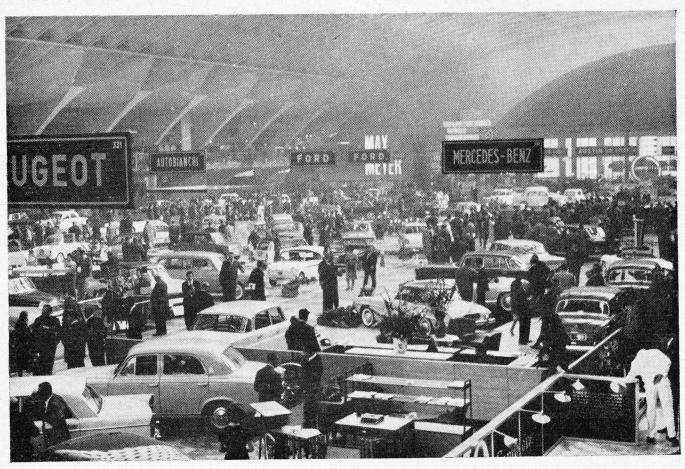
The half-way halt was at the Wynstay Arms, Wynstay, but previously to this the competitors had tackled the Hirnant, Bwlch y Groes, and some cunningly sited controls between them.

The second half started with a really tough section leading to a repeat of a Bolton section, looping round to Dylife. This proved another graveyard and many of the also-rans wished afterwards that they had had the courage not to have bothered with it at all. After this the route went north across country where the quickest way between controls was the "route". This part finished with a very tight section from Vyrnwy to the top of Bwlch y Groes and down to the Bala end of Bala Lake. From here the competitors had a non-timed route-card back to the Imperial Hotel, Llandudno, where the results (provisional) were announced.

Results
Best Performance: 1, G, F, Flint/G, Kendal
Jackson (VW), 0 fails, 35 m.; 2, P, A, R, Bernie/
B, Hughes (Sprite), 0 fails, 38 m.; 3, M, Y, Day/
I, Hall (VW), 0 fails, 52 m.; 4, C, Twigdon/L.
Chilvers (Sprite), 2 fails, 33 m.; 5, D, R, Ledgaurd/J, Williams (Dauphine), 3 fails, 32 m.
Best N.W.C.C. Member (otherwise unplaced): G,
Edwards/K, Leckie (Mini-Minor), 8 fails, 45 m.
Best Invited Club Member (otherwise unplaced):
R, Galpin/J, Owen (Austin Seven), 3 fails, 43 m.

THE British Racing and Sports Car Club announce that they will, once again, be holding their Midnight Film Shows at the Warner Theatre, Leicester Square, on successive Friday evenings, 25th November and 2nd December. Tickets for these performances are available to members of any R.A.C. recognized motoring club and application forms can be obtained from the B.R.S.C.C. at 6 Buckingham Street, London, W.C.2.





Of Ton

The Lancia Flavia the Car of the Italian Show

ONE ought to be patriotic but the truth will out. Nobody can conceal the fact that the London show went off at half-cock this year, through lack of any-thing new to exhibit. Now, only days later, Turin has opened in a blaze of excitement, with people crowding in from all over the world to see what the cars of tomorrow will look like.

This is no exaggeration, for it would be absurd to deny that the Italian coachbuilders dictate the fashions which will be followed in all countries. They may become a little blurred before they reach the giant presses of Birmingham, Billancourt or Bremen, but here is beauty in metal that will inspire designers for years to come.

This year a new and beautiful hall has been consecrated to the great names of coachbuilding alone. Before we enter this holy of holies, however, let us consider the cars in the main pavilion. Most of the models exhibited have been described in our Paris and London show reports, but now we are allowed to reveal a secret that has been trying to get out for some time. At last the new Lancia Flavia has been presented to the public.

The new Lancia is a 1.5-litre car, but it is a big, roomy vehicle which can fairly be called a six-seater. It may well be that more compact and sporting versions will be produced later on, but the basic model is large for its engine size

and is not, therefore, primarily a highperformance car.

The engine is a flat-four, with the cylinder block in aluminium alloy. The

> BY JOHN BOLSTER Photography by Theo Page

crankcase is split down the middle, and the counterbalanced crankshaft is on three bearings. The bore and stroke are 82 mm. x 71 mm. (1,500 c.c.). An aluminium alloy is also used for the detachable heads, and the valves are

pushrod operated.

This very short engine is ahead of the wheel centres with its radiator mounted right in front. It drives, via a single dry plate clutch, to a four-speed, all-synchronized gearbox. The engine being ahead of the differential, the gearbox is behind it driving back again to the hypoid final drive. It would be easy to hypoid final drive. It would be easy to attach a central lever to the rear of the box, but the Italian preference for a column-type lever has taken precedence. The front wheels are driven by open shafts and constant-velocity universal joints.

The front suspension is by unequal length tubular wishbones and a transverse spring. There are long rubber distance pieces between the spring and the top wishbones, which presumably

play some part in the suspension as well as insulating road noise. Curiously enough there is an anti-roll bar, instead of the more usual anti-roll mounting of

the transverse spring.

At the rear, a tubular dead axle is on semi-elliptic springs, again with an antiroll bar. The brakes are Dunlop discs on all four wheels with hydraulic operation and a vacuum servo. The steering box operates through a three-piece track

If the new Lancia is creating a furore, there is also much interest in the Innocenti. This great firm manufactures the Lambretta scooter, and so its factory and production methods are of the highest capacity. It is, therefore, most pleasing that the Innocenti saloon is the Austin A40, built under licence. The Innocenti spider is based on the Sprite, of which it uses the basic mechanical organs. However, the body of the Sprite is scarcely typical of Italian styling, and lacks the luxury that Continentals now demand from even an open car.

Thus, the Innocenti spider has an entirely new two-seater body designed by Ghia. It has that luxurious look that makes you want to sit in it which, if you are a girl, is probably the object of the exercise. Anyway, it's a really pretty little car and a great feather in the cap of B.M.C., for their mechanism has been chosen against all the claims of Italian

engineering.

TREMENDOUS INTEREST has been shown in the new Innocenti 950, produced by the well-known scooter concern and based on the Austin-Healey Sprite, the chief mechanical components of which are employed.

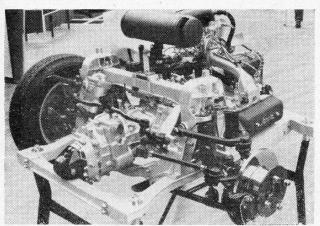
Another new car is the Skyline Sport from Tokyo. Two chassis are fitted with Michelotti-designed bodies, about the size of an American "compact". They both have 80 b.h.p. four-cylinder engines, but a very charming lady in a beautiful kimono whispered in my ear that they are only prototypes. Entirely new is the Osca 1600 G.T. The engine is of the well-known twin-cam design, giving 115 b.h.p. in its untuned version and considerably more for the "hottedup" model G.T.S. The chassis has an independent rear end by wishbones, and disc brakes, while the long, rounded body is by Zagato. There is also a convertible by Michelotti on the stand. Autobianchi have a de luxe station wagon based on the Fiat 500 with horizontal engine. It is a really attractive miniature.

All the other cars we have seen before except the new spider on the N.S.U. Sport Prinz by Bertone. N.S.U. also show their Wankel engine. The 5-litre Maserati awes us by its potential performance, the Ferraris are as seductive as ever, and one longs to get behind the



wheel of the Abarth 1000. Great Britain, France and Germany are well represented, but their wares have already been covered in the London and Paris reports. The brilliant American designs are here, but they too were fully described in our Paris number.

Let us, therefore, enter the pavilion



FRONT END of the 1½-litre front wheel drive Lancia Flavia, the sensational new car unveiled at Turin after months of rumour.



where the specialist coachbuilders display their exciting new models.

There can't be much doubt about it—Pininfarina has done it again! Let us ignore the "car of the future" on his stand. This has one wheel in front, one behind, and two in the middle, while the rest of the design stems from space literature. The Pininfarina design which steals the show is much more practical than that, in fact it is an ideal luxury touring car of the 175 m.p.h. variety.

touring car of the 175 m.p.h. variety.

The car is the Ferrari 4-litre Superamerica and the body is a fixed head coupé which has an utterly smooth outline. There are no protruding lamps, the headlamps retracting when out of use and the tail lamps being almost concealed by hiding them in recesses in the bumpers. The flashing indicators are under small, curved glasses that are virtually invisible in the body panels. The bonnet has a very full curve and a rather Citroën-like nose, while the long tail slopes right down to an almost pointed end.

No car could be "cleaner", and one immediately sees that the new trend is away from edges, fins and clusters of lamps. Hitherto beautiful cars suddenly become untidy and over-decorated. The Bertone Alfa Romeo Sprint Speciale is seen to have too much chromium bumper and the flat end to the tail looks unfinished. The barrel-shaped sides contrast with a "conning tower" top section; yet this car was beautiful before one saw the Pininfarina! However, a very racy white coupé on a Ferrari 250 G.T. certainly restores one's faith in Bertone.

Handly restores one's faith in Bertone.

Boneschi breaks all the rules, but doesn't quite get away with it. He shows an open spider that is uncompromisingly square and razor-edged and calls it a "monolith". The driver's side of the bonnet is slightly higher than the passenger's, and the four headlights are set in a "meat safe" grille. Yet, by some curious Italian art, the effect is not unpleasing

unpleasing.
Canta affects dummy radiator grilles on his two- and four-door saloons, which

IDEAL TOURING CAR of the 175 m.p.h. variety is the utterly magnificent 4-litre Ferrari Superamerica with a fixed-head coupé body by Pininfarina. The headlamps retract when not in use, and the tail lamps are almost concealed in recesses in the bumpers.



AUTOSPORT, NOVEMBER 11, 1960

NEW CAR is the Skyline Sport, from Tokyo. The body is Michelotti-designed and the power unit at the moment is a four-cylinder engine developing about 80 b.h.p. It is understood that these are prototypes.

adorn small rear-engined Fiats. Ellena shows a very clean fixed-head two-seater coupé on an Abarth 2200, with a long tail and just about infinite luggage space.

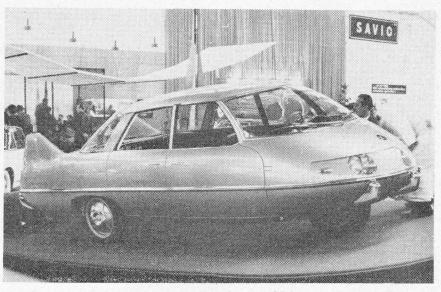
Fissore is almost alone in retaining tail fins on an otherwise very smooth Auto Union four-seater coupé. This firm shows a Fiat 1500 coupé with pronounced "tumble-home" of the windows towards a narrow roof. A feature of several cars on the stand is a very low air scoop with a slot only some $\frac{1}{16}$ in deep. Indeed, the air-scoops on bonnet tops are generally becoming much lower than they were. The Fissore beach car, with water skis on its plank-width roof, makes one long for the sunshine.

The Ghia stand is the most spectacular

The Ghia stand is the most spectacular of all. A "car of the future" has a



BEACH CAR: This appealing exhibit, with body by Fissore, includes water-skis mounted on the roof, and makes one long for the sunshine.



CAR of the future (1): This is the Pininfarina "X", which boasts a single front wheel (for steering), a single rear-wheel (for driving) and two at the sides (for balancing).



single front seat with handlebar steering, while the two rear passengers face away from the accident. They are very properly provided with built-in bottles of *Punt e Mes*, that delectable Italian apéritif. An astonishing Ghia exhibit is an American single-seater "hot rod" with a beautifully finished body. There is also a quite orthodox coupé, powered by a big Chrysler engine.

Francis Lombardi has some rather angular saloons, somewhat in Farina's mood of two years ago. There are two Fiats and a Studebaker Lark, and they each have four headlamps apiece. The Fiat 1500 with its twin-cam engine appears on many coachbuilders' stands, and Monterosa has a very nice coupé on this chassis.

Moretti also goes for the Fiat 1500,

SPORTS MODEL by Boneschi breaks all the rules. The body is uncompromisingly square and razor-edged, while the driver's side of the bonnet is slightly higher than the passenger's side.

AUTOSPORT, NOVEMBER 11, 1960

ZAGATO pioneered the smooth, finless tail form, and this treatment looks particularly well on his Lancia Flaminia coupé.

contriving a neat four-seater coupé on one. He even manages to seat four people in his open and closed 750 c.c. sports Fiats without too much loss of dignity. Savio makes those dear little beach cars with basketwork seats that most people secretly want to own. He also has an open body on the Fiat 600D that is supposed to take four people and looks more than a little like a Floride.

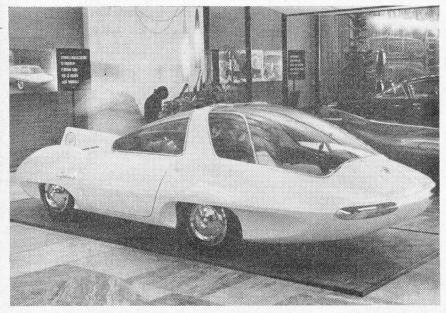
The touring stand contains some

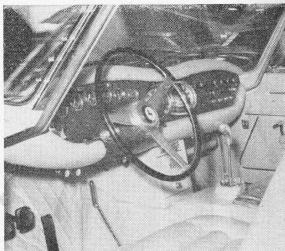
The touring stand contains some glorious Superleggera creations. Maseratis, Alfas and Lancias abound, all very clean and with lots of window area. There are no tail fins on the Touring bodies, but two curious little chromium-plated heads are placed where the fins would go on a Maserati 3500 G.T.

The Vignale stand is a large one, and

The Vignale stand is a large one, and all the cars have that patrician look which only perfect proportions can give. Once again a Maserati 3500 G.T. finds itself carrying a lovely body, an open spider in this case. An Alfa Romeo







SUPREMELY well laid-out is the cockpit and instrument panel of the Bertone Ferrari. Note the angled rev. counter and speedometer dials.

CAR of the future (2): The Ghia Selena is one of the most spectacular exhibits, featuring a single front seat and rearfacing passenger accommodation.

2000 sprint is endowed with an attractive coupé, and while one expects to find a sporting Fiat 1500, a Lancia Appia is a rare bird. The "Italia 2000" hides a Triumph TR3 chassis.

Zagato pioneered the modern smooth tell without force and this treatment par

Zagato pioneered the modern smooth tail without fins, and this treatment particularly suits a Lancia Flaminia coupé. The Zagato Aston Martin DB4 G.T. is on the chassis manufacturers' stand.

on the chassis manufacturers' stand.

Well, that is Turin 1960, and if we are all a bit out of breath after Paris and London it is still worth the considerable journey to see those lovely bodies. It is difficult to describe the sheer artistry displayed, but where the pen fails it is hoped that Theo Page's camera may catch some of the sheer poetry.

VERY CLEAN LINES are featured on this fixed-head two-seater coupé, based on the Abarth 2200 by Ellena.





JOURNEY'S END: Jack Kemsley, complete with satisfied smile, arrives at Madeira Drive after a successful run with Philip Fotheringham-Parker's 1901 $4\frac{1}{2}$ h.p. Renault.

perfect conditions. I dismantled my ignition system to cure an incipient misfire, while at least 10,000 spectators breathed down my neck.

Soon it was time to make for the starting area, and with Raymond Baxter and some television equipment beside me, we moved off with both cylinders firing cheerfully. The next car to us was the Oldsmobile of Ray Henry of the Antique Automobile Club of America. No less than 244 Americans had come over to drive, ride, or just watch the run. A private bus carried a large contingent of them down the route to the coast.

Soon we were off, and taking the new diversion in Hyde Park, we then joined the familiar route past Buckingham Palace and over Westminster Bridge.

At Birdcage Walk, F. H. Babcock had jacked up the left rear wheel of his Royal Enfield Quadricycle, and was watching

To Brighton in the Sun

BY JOHN BOLSTER

Blue Skies for the 1960 Veteran Car Run Photography by George Phillips

Among those of us who make the annual pilgrimage to Brighton, the weather is normally regarded as a rather grim joke. The occupants of veteran cars have so little protection that one can describe the sensation as "low flying on a garden seat", and so the personal sufferings of a really wet commemoration run are only equalled by the mechanical embarrassments caused by water in the wrong places.

Thus, it was almost with disbelief that I awoke early on Sunday to see what looked like a pretty promising dawn. I

collected the 1903 Panhard from a garage and drove out to the start in Hyde Park, to find many friends gazing at the blue sky in amazement. "It's wonderful but it won't last," they said, but incredibly it did last, all day, and we performed our pre-start tuning operations under

HYDE PARK MIXTURE: Going down to the start are (left) Dennis Flather's 1897 Daimler, and (right) Cmdr. Sir Hugh Dawson's 1897 Benny Dogcart, just in front of E. D. Woolley's 1897 Daimler Phaeton. it rotating with a worried look. By some curious coincidence, the left rear wheel seemed to exert a fascination on many drivers, and most of the early breakdowns centred round this component, though why the right wheel was immune from trouble one does not know.

On Westminster Bridge, Capt. Alcock had stopped with his De Dion, and the 1898 Panhard was also in trouble. Goodall was working on his Royal Enfield in Brixton Road, and James Tilling was suffering from overheating with the Sunbeam-Mabley; as will appear



AUTOSPORT, NOVEMBER 11, 1960

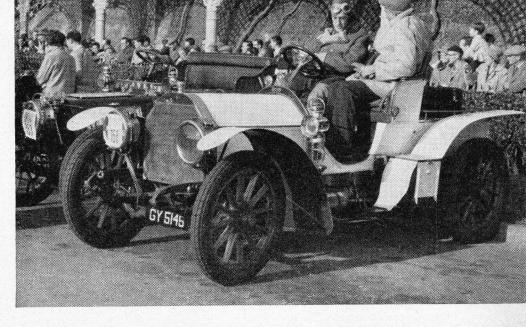
GIANT RACER: In repose at Brighton is C. W. P. Hampton's 60 h.p. Mercedes, a two-seater dating from 1904. This car had to stop several times on the journey—purely to maintain schedule!

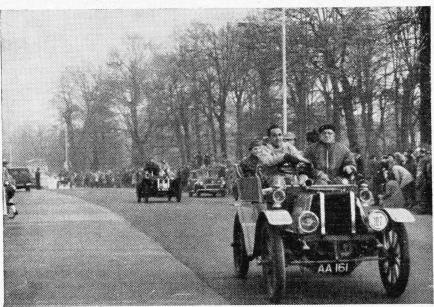
later, it was not James's day. William Boddy had already come to a grinding halt with the Humberette.

The number of cars in trouble early was unusually large. J. F. W. Howes was working hard on his 1902 Wolseley of the horizontal engine variety, and the 1901 Toledo Steamer from South Africa also needed attention. Capt. Benbough and Jack Twyford both had trouble with their 1896 Leon Bollée tricycles on Brixton Hill, and Baker's 1902 Hanzer was similarly indisposed. So was the 1898 Malvernia of Sir John Briscoe, who was gazing at (you've guessed it) his left rear wheel. Major Mills was titivating the Godiva, and even the 1903 Mercedes from the Allday collection had a short pause, but both these cars were seen going well thereafter. The Brushmobile from the Montagu Museum was in splendid form, the glorious hat of its lady passenger being much applauded. At Croydon, Betteridge's White Steamer was observed to have flames pouring out of its boiler, but in general the "steamers" were less temperamental than usual, for they are allergic to rain and

I must, at this stage, comment on the appalling driving manners of many of the spectators. Some of them were so intent on watching the veterans that they paid no proper attention to their own driving. A typical manoeuvre was to overtake a veteran car at speed and then, suddenly noticing a tempting parking place, to brake violently and swerve across its bows. If these people have no respect for the old cars, why do they turn out in their thousands to watch? Francis Hutton-Stott was "carved up" several times by the same Jaguar, and the driver was so impressed by Francis's final rebuke that he stalled his engine in the middle of the road!

An even better incident concerned Thorpe's Darracq. A modern car cut in and braked, and though the Darracq has good anchors it cannot be expected to emulate a brand new set of hydraulics.



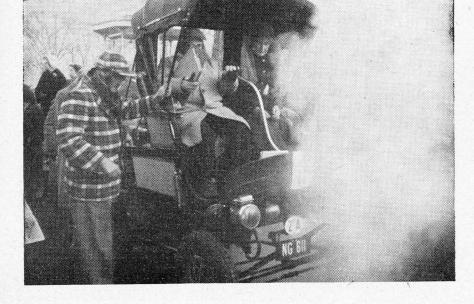


BRIXTON HILL: At the top of the rise, R. K. N. Clarkson's 1902 Panhard-Levassor leads an older competitor.

Thorpe very properly "borrowed" the brakes of his adversary, and the dumb iron of the veteran penetrated the coachwork of the modern, modifying its styling considerably before you could say "Pininfarina".

Meanwhile, another spectator, driving far too close to the veteran and paying too little attention, rammed it smartly up the rear and spread his radiator over his cylinder block. The total damage to the Darracq was a slightly bent number plate!

For many years we have implored spectators not to drive too close and menace the safety of our beloved old cars. Let us now warn them that a dumb iron through the middle of a body panel is no laughing matter. Keep away from



STEAM CAR! J. S. Ferguson's 1901 Toledo Steamer disappears behind a white cloud as the driver works up pressure at the start.



the veterans, for they can bite! Let me put it another way. The first time I drove the 1903 Panhard to Brighton was in 1934. The "modern" cars which were on the road on that day have now nearly all been scrapped, and when the 1960 models are just heaps of rust in junk yards, I shall still be driving the 1903 Panhard to Brighton.

Among the many clots, there were some superbly driven spectators' cars, quite a few of them of historical interest. It has become a tradition that Edwardian and vintage cars shall be polished up and brought out to welcome their forbears on the day of "the run". We are so glad to see these chaps every year, and we can rely implicitly on their driving ability. Nor do we quarrel with the ordinary travellers who are making proper use of the road. They pass us and are gone, but it is the cars full of laughing morons who have come out for a day's fun, and who thoughtlessly menace the safety of the very vehicles they have come to see.

If the week-end drivers were a pain in the neck, the police were really marvellous. The sheer skill with which they helped the veterans through difficult and crowded areas had to be seen to be believed. All the way to Brighton we had this wonderful assistance, and I am sure that every driver of a veteran would like me to say, "thank you, gentlemen!"

Let us return to the road. At Croy-

Let us return to the road. At Croydon, two Humberettes stopped for routine maintenance. Several of the later and faster cars had come up through the field, and at this point they had found it necessary to pause, purely to avoid disqualification for speeding. Gilbert's 1904 Quadrant Tricar was one of these, but Jack Twyford blew up the Leon Bollée of Murray Austin, unfortunately quite seriously. Tacon's 1903 Humber Olympia Tandem was overtaken, but he passed the Panhard uphill by dint of furious use of his pedalling gear. Miles's 1899 Benz had a shimmy on its front wheels that kept time with the palpitations of the engine.

At Purley, Wellingham was winding frantically at his de Dion, and Forster was working on the right rear wheel of his similar car—a very rare complaint, for left rear wheels were the usual cause of trouble. At Coulsdon J. E. Crossman's Georges Richard smelt terribly hot. while G. B. Corser was adding water to the 1900 de Dion. Occasionally, Peter

Hampton or Eric Sears would flash past in their respective Mercedes, only to stop and waste time afterwards to keep within their schedule. Actually, Hampton's great 9-litre racing car did come to an unscheduled halt on a hill, due to dirt in the petrol filter. Basil Davenport was going great guns on the 1902 Century Tandem, with the Mayor of Macclesfield in the exposed front seat (the Mayor of Macclesfield is his wife!)

Philip Fotheringham Parker broke a

Philip Fotheringham Parker broke a chain on the 1896 Lutzmann, but a temporary weld did the trick, and he was able to finish with this most spectacular horseless carriage. The similar machine of Berry also paused by the wayside, but the work appeared to be of a routine nature. Capt. Colver stopped with the Arnold, car No. 1 which took part in the emancipation run of 1896, but he was making a good average and seemed not to be having any unusual difficulties.

The traffic was very heavy as far as Redhill, but after that the various diversions kept casual traffic away, and we had a wonderfully fast run. Redhill, as its name implies, contains a formidable gradient, and there was much trouble for the crews of some of the smaller cars the crews of some of the smaller cars before the top was reached. McCrea's Argyll, North's de Dion, and Pottier's Georges Richard from Belgium all stopped for petrol here. Dr. Gilbertson's Oldsmobile appeared to have retired, Wilson's 1900 Pieper came to a halt and distributed to the state of the state received police assistance on the gradient, while Sir John Briscoe again had trouble with the Malvernia. Capt. Benbough was stationary with the Bollée, probably cooling down after making the grade, and some terrible bangs from the Sunbeam Mabley indicated that James Tilling was in trouble. After various vicissitudes, the exhaust valve broke, but James actually managed to find a garage with an excellent machine shop, and another valve was adapted to fit; the Sunbeam Mabley was back on the road again.

Then I had a most imperial dice with Reg Parnell. Reg was driving Lord Montagu's de Dion and we raced neck and neck past Gatwick before his faster revving engine triumphed over the Panhard's slow-running power unit. However, he had to make a momentary stop for water which put us on an equality. By this point, Cole's 1900 Benz had one of its solid tyres attached with lashings of rope.

I am sorry to have to record that at

TRAFFIC JAM—well, almost! L.
Murray Austin's 1896 Leon Bollée
voiturette has stopped with mechanical
trouble (right) while the 1901 de Dion
Bouton (owned by the same man) has
paused to offer help. On the left,
A. W. F. Smith's 22 h.p. 1902 Daimler
thunders past the pair of them.

Bolney Hill, James Tilling was the victim of a nasty accident. The Sunbeam Mab-ley is a curious little car, with one front wheel, one at the back, and two half-way along. The tiller steering is not of the best, but the tiny de Dion engine cannot propel it fast enough to cause any trouble. Unfortunately, the gradient caught James unawares and the speed rose a little higher than he had intended. The mechanic jumped and somersaulted on the grass at the side of the road, but Tilling stuck to his ship and almost re-gained control. Then, he was unable to avoid touching the kerb and the little machine swerved and overturned. James was badly knocked about and unfortunately broke his arm. The latest news from the nursing home is that an operation has been performed on the arm and now everything is progressing satisfactorily. Hard luck indeed!

On the run into Brighton, Reg Parnell ran out of petrol and I won our private Grand Prix. Jack Brabham had cured his Sunbeam of misfiring—it was only a loose plug lead—while Maurice Smith was delighted with the big Fiat after an excellent run. Jack Fairman also enthused about his ride in a 1903 Tony Huber, while Jack Kemsley was equally pleased with the little Renault, and Tony Brooks had enjoyed Bob Gregory's Darracq.

Perhaps the most astonishing success was that of M. Scoupe from France in the Lacroix de Laville. This car has a long wooden chassis with a single tillersteered front wheel. The engine is a large 8 h.p. de Dion single-cylinder, and it drives one back wheel by a flat belt. The driver has a lever which pushes a jockey pulley on to the belt to tighten it, and that is all the transmission which the machine possesses. Yet, with no gears at all, this one-speed vehicle fin-ished the run. It needed some pushing on three of the hills, but it made excel-lent time and showed a good turn of speed. It is doubtful whether the exposed belt drive would have worked in wet weather, but we hope that the intrepid M. Scoupe will test this point in a later event.

Another most interesting car to finish was Stothert's 1904 British Duryea. This machine has a horizontal three-cylinder overhead valve engine, a two-speed epicyclic gear and single chain drive; the body styling is extraordinary. Alec Hodsdon had a good run in the Turner-Miesse Steamer, and Sam Clutton went well in that famous Cadillac with which the late F. S. Bennett made so many records. Alas! Sammy Davis broke the crankshaft of his Leon Bollée.

So ended another Brighton Run, and what a good one! Two hundred and sixty-five cars were entered, and 243 actually started, ranging from 1896 to 1904 in date of manufacture. Of these, 223 finished by the four o'clock deadline, so most of the trouble which we saw on the road must have been fairly trivial. The weather and the police helped to make it a wonderful occasion.



The Cult of the Car Cruiser

Modern Motor Caravans make for Easier Race-going and Uninhibited Holiday-making

ONE sees them everywhere nowadays; in Devonshire lanes, in the Scottish Highlands, on the routes nationales of France, making light work of Alpine Passes, in every conceivable Continental camping sight—and, of course, at motor racing meetings all over Europe. They attracted tremendous interest at Earls Court in October, particularly amongst people who do like the idea of caravanning, but dislike hauling any form of trailer. In short, the motor caravan has become a most important form of personal transport, and in its latest form offers exceptional value.

Motor racing enthusiasts are often faced with long journeys to circuits, the inevitable crowded hotels (often miles away from the scene of operations), and the problem of food. The motor caravanner simply loads up with the things required, drives to the circuit and takes his own accommodation and restaurant along. Again, journalists find them ideal to cover meetings, for within a few minutes they can be converted into

mobile offices, with table to hold the typewriter and freedom from interruptions.

Recently I was lent a Calthorpe Cruiser on a Bedford chassis, and took it over to the Continent. This was a completely equipped vehicle selling at £825 and had the now-famous Calthorpe elevating roof. Unlike many other motor caravans, the Bedford Calthorpe is low enough to go on Silver City aircraft, thus cutting out the necessity to travel by sea which normal trailer folk have to bear.

The interior is extremely well thought out, and conversion from seats to beds can be accomplished within a few minutes. When arranged for sleeping, the rear becomes a double-bed, and the back of the front bench-type seat can be folded flat to form another fairly wide bed. In our case, it was thought best to use the rear compartment as a "double", and leave our small daughter in the front. The two boys, both fairly hefty, preferred to use their Dutch tent and

A COMPLETELY equipped vehicle which is ideal for holiday-making. The Calthorpe Cruiser is low enough to go on Silver City aircraft, cutting out the necessity of travelling by sea.

"safari" beds. Although the type we used could be regarded as sleeping four, I should say that from a comfort point of view, three should be taken as ideal.

Anyway, when everything was packed away there was any amount of room inside, either with all seats facing forward, or placing the folding table between two benches at the rear. When used like this, not only can passengers play cards or even write letters whilst travelling, but the caravan is immediately ready to use as a dining car. Calor gas provides the cooking and main interior lighting; the cooker has two burners and a separate grill, the gas cylinder being carried beneath the floorboards. Lighting is via a normal gas mantle, and provides surprisingly good illumination. There is, in addition, an electric lamp above the driving compartment.

Alongside the cooker is a washhand basin with running water, drawn from an exterior container and filled through a cap on the body panel. We carried an extra five-gallon polythene carrier, to conserve the running water supply. Beneath these fitments are commodious storage cupboards, and alongside at the rear is a hanging wardrobe, fitted with runners. More storage space is available under the seats, and can be used for blankets, sheets and so on. There are also shelves running along the roof-top, useful for carrying small items

useful for carrying small items.

Privacy is ensured by fitted curtains, which can be drawn to conceal the interior. The rear door has a separate cupboard designed to carry plates, cups, saucers, forks, knives, spoons and so on.

Nothing could be easier to operate than the elevating roof, which is invaluable for permitting occupants to stand up in the van, and also provides adequate ventilation during the night. It is completely waterproof as we discovered, when we had to spend the night in an Italian camping site during a cloudburst.

BELOW: FOLDED FLAT: the back of the front bench type seat can be folded flat to form a fairly wide bed.

LEFT: CONVERSION: This comfortable looking little "dining room" can be easily converted into a double bed—as can be seen in the right hand picture.







The Bedford Calthorpe Cruiser performs remarkably well, although a three-speed gearbox is something of a drawback in the Alps. Brakes are excellent and showed no sign of fade during the steepest of descents. Steering is light and positive, the motor caravan handling well under all conditions. Perhaps the most surprising aspect is the general economy, for we found that the vehicle did something over 25 m.p.g. under average road conditions, cruising wherever possible at 55 m.p.h. Oil consumption was negligible, about one pint being added in over 1,500 miles.

when making a Continental trip we, as tyros, took far too much unnecessary gear and clothing. In conversation with more experienced motor caravanners I discovered that this is a common fault, and that clothing should be kept to the barest minimum. In point of fact, I did not see any advantage in the interior washhand basin, as polythene basins are all that are necessary, and full facilities are available in the majority of camping sites. I would have preferred the space to be occupied by a small fridge, or even an ice-box. However that is a matter of opinion, and I am sure the Calthorpe people would make any alterations that are deemed necessary!

Although sheets and blankets look nice, there is nothing to beat a sleeping bag. The former are apt to slip off during the night—and it can be pretty sharp in the mountains, even during the hottest of summers!

Several motor caravanners met en route had most attractive bivouacs which they could arrange at the rear of the van, thus providing a useful "lounge", kitchen or even additional bedroom. We met one family of seven who had been on the Continent for three months, had lived, eaten and slept in their van and "bivvy", and their only regret was the fact that they were homewards bound. We praised the Swiss camping sites, but they said that they were n thing compared to the majority of the West German ones.

REAR VIEW showing the washhand basin with running water drawn from an exterior container and filled through a cap on the body panel. There is quite a lot of space for storage under the seats as can be seen. The camping sites range from the overnight variety with few facilities to luxurious affairs with swimming pools, restaurants and dance halls. All are fairly cheap, some as little as 2s. 6d. per night per person, with no charge for children. To take full advantage of lower rates, one is advised to be in possession of an International Camping Carnet, which can be obtained on application from the R.A.C. On many sites, carnet holders are also given free access to swimming pools and other facilities. On the majority, long-term parking is available, for which special rates are quoted.

For officials in rallies and trials, a motor caravan is a wonderful asset, and their use is increasing to man those inaccessible control points in which organizers delight. It also solves the problem of what to do with the family—a thing which faces many people who devote their energies to motoring sport.

The professional man also finds the motor caravan a useful investment, and several prominent photographers have had theirs converted to mobile dark rooms. One Scottish doctor became so fed up with irregular meals that he uses his as a dining room between visits to

ALPINE HALT. Mrs. Eba Grant and her daughter Simone take advantage of the stop to stretch their legs during their holiday in Italy earlier this year.

patients. Passers-by are startled to be regaled with the appetizing odour of bacon and eggs and coffee emanating from his parked van—off some busy Glasgow street!

It also is a boon to people who have to take numerous children to school, serving as a general utility vehicle with immense carrying capacity.

For competitors, the motor caravan means an excellent changing-room and an invaluable centre for his operations. For long-distance events such as Le Mans, the vehicle can be used as a first-rate H.Q., with all possible facilities laid on.

Indeed this form of transport has come to stay, and it is to be hoped that all race promoters will realize that full camping facilities are required at all major meetings. Encouraging the motor caravanners will benefit all concerned, and special rates could quite well be quoted for parties using them.

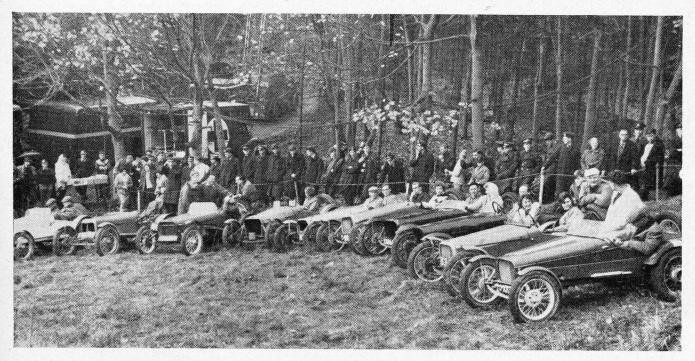
GREGOR GRANT.

BRIGHTON TO HAVE MOTOR MUSEUM

As a record entry of 265 Veteran cars took part in their Annual Run to Brighton, plans were announced for Brighton to have its own Motor Museum. If the plans which are now before the Council are approved, it will be situated in the Aquarium buildings on Madeira Drive (on the sea front) and is being organized by the Aquarium's board of directors in conjunction with Lord Montagu.

The Montagu Motor Museum and the one at Brighton will work together in close association, and Lord Montagu will be responsible for providing most of the exhibits—cars, motor-cycles and other items of motoring history. As a matter of policy, exhibits will be exchanged between the two Museums and many vehicles which, due to lack of space at Beaulieu and other places, are at the moment in store, will in future be on show to the public at one Museum or the other.





The Midlands Win The TV Trophy Final

Frank Lewis Makes Best Individual Performance in Popular Annual London M.C./B.B.C. Event

STAGED exclusively for B.B.C. Television by the London M.C., the annual Television Trophy Trial at Aston Hill, Wendover, went to the Midlands team comprising Charles Pollard, Frank Lewis and Ron Kemp, with a total of 130 points for the seven observed hills. Runners-up were the South (Rex Chappell, Peter Highwood and Geoff Newman) with 115 points; the North (Edward Harrison, Eric Jackson and R. C. Needham) collected 100 points, and have yet to win the Trophy. This was the eighth event in the series, and best individual

performance was put up by Frank Lewis, with three clean climbs.

with three clean climbs.

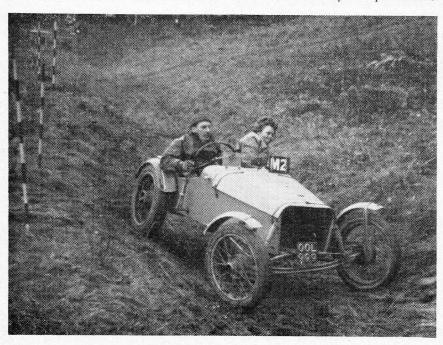
The TV side of the business was in the hands of John Vernon, who had arranged three fixed cameras, and a portable outfit, which, by reason of the sound equipment, required two men to operate it. The familiar voice of Raymond Baxter described the event for viewers.

Edward Harrison kicked off for the North on Hill 1, and just failed to reach the top. The Midlands captain Charles Pollard failed literally a couple of inches from the end, but the Southern skipper, Rex Chappell, sailed up to make the first clean climb. Sole remaining 100 per center was Ron Kemp in his Simcapowered device, which put the Midlands ahead.

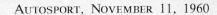
Section No. 2 was extremely tricky, and not a single member of the Southern team scored points. Frank Lewis was the only one to get past the first marker for the Midlands, but both Harrison and Jackson scored for the North. On the third section, none achieved maximum points, and poor Needham scored a great big "zero".

Although the fourth hill looked difficult, owing to a hump followed by a swing round over and up a steep bank, all scored maximum points with the exception of Newman, whose engine suddenly died on him near the top. Hill No. 5 was a triumph for Frank Lewis, whose 10 points gave the Midlands a useful lead. Needham and Newman both failed, and the remainder each scored five points. The position then was: Midlands, 90; North, 75; South, 70.

The Southerners made a great comeback on Hill 6, all three taking maximum points to bring their tally up to 100. However, even this wasn't good enough to wrest the lead from the Midlands, for both Kemp and Lewis made clean climbs, and Pollard, his engine sounding just like a Formula Junior unit, failed by about a centimetre. Anyway, this raised the team's total to 115. The North had faded right out of the picture, their total



ABOVE: The teams line up, the cars brightly glossy—before the start. LEFT: Best individual performance was made by Frank Lewis, right on top of his form and a member of the victorious Midlands



PRESSING ON for the Northern team is Eric Jackson, who tackles a hill with a television camera trained on him (left). BELOW: As Rex Chappell negotiates a tight corner, his wife Renée demonstrates one of the uses of rubber rear wings!

the South, and was used along with Stan Jenkins and Ivor Portlock to try out the various sections for size. Only regret is that neither Northern Ireland nor Scotland seem to be able to field strong enough teams to compete in this attractive event.

GREGOR GRANT.



for this postion being 15 points to give a and the weather remained very kind

for this section being 15 points, to give

them an aggregate of 90.

The final section defeated all nine drivers, each taking five points with the exception of Needham who was unlucky enough to stop right by the marker. Thus the Midlands recaptured the Trophy from the South, and each have now been victorious on four occasions.

Organization was particularly slick,

and the weather remained very kind. Once again Air Commodore Coslett, O.B.E., gave invaluable help with men from the R.A.F. Halton Camp, whilst Ron Carradine had mustered an enthusiastic bunch of marshals from the London M.C.

As in the majority of events, the marque Cannon was dominant, and Michael Cannon himself was reserve for

BOOKS REVIEWED

Title: "Touch Wood".

Author: Duncan Hamilton.

Size: 229 pp., 57 illustrations.

Publishers: Barrie and Rockcliff, London.

Price: 25s. net.

Duncan Hamilton has chosen a highly appropriate title for his book, for one cannot recall any other driver who has been so candid concerning prangs and phenomenal avoidances. Duncan was certainly one of the most spectacular of all drivers, but took his accidents as they came, philosophically, and back behind the wheel as soon as humanly possible.

He drove for the fun of it, but always went out with a determination to win. Behind that playboy attitude were bags of guts and any amount of genuine driving skill. Although Duncan describes many of his races, the charm of Touch Wood is that it is a motorracing book with a difference. Many of the classic parties are described in detail, including that fantastic affair at the M—— Hotel, Isle of Man, when somehow or other a paddling of ducks appeared inside the hotel.

He was continually getting into trouble; at Casablanca the customs people called the police when Duncan said jokingly that he only had a few guns, bombs and so on to declare. His visit to the Sphinx at Fedala is described with refreshing detail, and I am sure that all who have gone motor-racing in North Africa have seen that film, The New Secretary.

Both Duncan and Tony Rolt were suffering from classic hangovers the morning of the Le Mans race in 1953. Believing they had been disqualified for practising in an unauthorized car, they tried to drown their disappointment. Their frantic efforts to become "more healthy", when they found that they were driving after all, make amusing reading. Sufficient to say that they won, which was a perfect excuse for anything!

Duncan also recalls the time he was sacked from the Jaguar team, for winning at Rheims in the 12 hours race. Anyway, he maintains that although Lofty England was perfectly justified in firing him for disobeying pit signals, his own arguments are also pretty convincing.

He also relates a remarkable incident in the Waldorf Astoria, New York City, when Mike Hawthorn, mistaken by a woman for a convention official, started to direct all the other women to the 11th floor. As a large all-male convention was already in progress there, one can quite well imagine the scenes of chaos which ensued.

All through the book run authentic motor-racing tales, interspersed with uproariously comical anecdotes. From his wartime flying days, to the time of his retirement from motor-racing, Duncan Hamilton led a highly exciting life, in which motor-racing became his chief outlet for a boundless energy. His kind are not so numerous these days; like others of the immediate post-war period and afterwards, he preferred big and powerful cars, and never took kindly to modern, lightweight machines. At any

rate, one will never forget Hamilton in a Jaguar—surely the finest value spectators at motor race meetings will ever have.

G.G.

Title: "The Motorist's Weekend Book". Editors: Michael Frostick and Anthony Harding.

Size: 304 pp. Numerous illustrations and cartoons.

Publishers: B. T. Batsford, Ltd., London. Price: 25s. net.

This is a sort of "Bedside Esquire", or "Saturday Book", devoted to the sport of motoring and containing a selection of stories and articles by prominent contributors. Amongst these are Paul Frere, John Wyer, Ron (Steady) Barker, Cyril Posthumus, David Scott-Moncrieff, Robin (B.B.C.) Richards, D. B. Tubbs, Sir Henry Birkin, Sammy Davis, Rodney Walkerley, W. Boddy, Denis Jenkinson, Lord Montagu, Laurence Pomeroy, Gregor Grant, John Eason Gibson, George Monkhouse, etc., etc.

Many of the "page fills" are gems of motoring wit, and the book is one that can be read many times. Walkerley's "Tribune de la Presse" is a little masterpiece of its kind, and does show what really happens in Continental press boxes

Every possible aspect of motoring is covered in this book. Many magnificent photographs are reproduced, and the inimitable Brockbank has contributed some delightful cartoons.

Batsford's have done a grand job in producing this miscellany, which, at 25s., offers exceptional value and is an important addition to worthwhile motoring literature.

G.G.



Start easily at 16° below freezing with

BP 'Visco-static'

Cold chamber tests prove BP 'Visco-static' allows starter to turn engine faster and that means easier starting

EAVE YOUR CAR out on the road all night at 16°F below freezing and in a biting wind. Could you be certain of an easy start?

These are conditions your car may well have to withstand this winter. So these were the temperatures chosen in recent cold start tests. They proved that winter starting is much easier with BP 'Visco-static' than with ordinary winter grade motor oils. The results were observed by independent witness David Pratt who was Senior Engineer to the Trans-Antarctic Expedition, and is an expert on the operation of engines at low temperatures.

To make these tests. The British Petroleum Company made use of the cold chambers of the Motor Industry Research results showed a saving of current between Association at Nuneaton. Here in huge refrigerated rooms a range of popular cars was subjected for approximately 12 hours at a stretch to very low temperatures.

Scientists then pressed the starter button and measured the speed at which the engine rotated.

They did these tests with ordinary winter grade oil then repeated them with BP 'Visco-static'. In each car the engine turned over considerably faster with BP 'Visco-static'. The average difference was 30% faster. This means quicker easier starting.

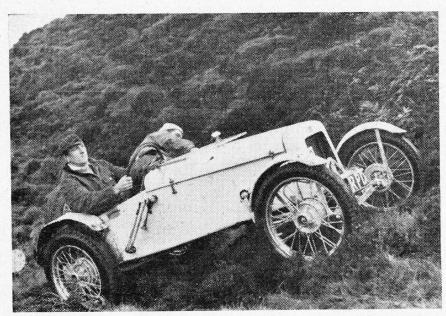
Less strain on battery. As each starter was operated, scientists also measured the electrical drain on the battery. In every case 7-11% with BP 'Visco-static'. This proves scientifically what so many motorists know for themselves - that BP 'Visco-static' gives longer battery life.

Beats start-up wear. BP 'Visco-static' not only gives easier winter starting it also reduces the heaviest engine wear of allstart-up wear. So you get thousands of extra miles from your engine before it needs overhaul.

Change NOW! BP 'Visco-static' saves in so many ways that you cannot afford not to change to it. But remember you

must make a complete change drain out the old oil and replace with BP 'Visco-static'.





SHEFFIELD & HALLAMSHIRE M.C.

HIGH PEAK TRIAL

Fine Win for Eric Jackson

A DAY of low cloud, mist and threatening rain (which fortunately never arrived) greeted the Sheffield and Hallamshire M.C. High Peak trial on Sunday last week. This classic event, which attracted an entry of nearly 50 cars, was extremely well run as befits a trial of extremely well run, as befits a trial of this stature, and resulted in a 10-mark win for Eric Jackson, who seems to have regained his shining form of a couple of seasons ago. Second was Rex Chappell and Geoff Newman took third place: on present form it seems likely that next month's trials championship will be fought out between these three, for all of them are now on top of their form, and only Charles Pollard (who is, after all, reigning champion) seems likely to challenge them on recent showings.

The ground used was the first-class area on top of the hills around Sheffield,

in the Bradfield district to the north-east of the city. It was used, it will be remembered, for last year's R.A.C. Championship trial. Obviously no event is perfect, and competitors had one or two criticisms of this one, the most repeated being that the major obstacles on many of the hills were too near the start, and too much ground had to be covered to gain a mark.

The first hill of the day set the fashion, for it was of great length and provided changes of surface, gradient and camber. A steep gradient took cars to the "9" marker, where the course turned left and ran level before shooting downhill to the "6" board. Here there was a hairpin left-hander, with sharp adverse camber, before a steep, uphill rush to the finish. Frank Lewis and Bernard Dees, first men to tackle it, failed at the "5" board, as did T. A. Marshall, Eric Jackson, and others. Best climb we saw was that of John Harrison, but even he made only the "4" marker before stopping.

GOING DOWN! Negotiating the down-ward slope on Hill No. 9 is Rex Chappell who made second best performance to win the Beaston Trophy.

Hill No. 2 started with a steep, twist-Hill No. 2 started with a steep, twisting gradient on wet grass, leading up to a left turn. What happened after the corner is of merely academic interest, as no one got far enough to find out. A particularly nasty kink by the "10" board stopped most people, including John Harrison and Charles Pollard.

Third hill provided totally different problems running as it did over a sur-

problems, running as it did over a surface which varied between grass, bracken and damp, slippery rock. The whole thing was extremely bumpy, the hill starting in a dip, coming out of which the course turned left to climb to a hairpin and a very steep last section. The hairpin, which combined a steep bump with a transition from bracken to bare rock and back again, caught out most of the entry, although particularly good attempts were made by Jackson, Charles Pollard, Gordon Holdrup and Peter CONCENTRATION: Eric Jackson, the eventual winner, has matters well under control—his passenger is using all his weight in the right place to keep it that way.

Highwood. Hill No. 4 was even longer than most, starting with a long run up an adverse-cambered gradient on grass and heather to swing left into a narrow, muddy channel. Then came a right turn leading out of the mud before a steep climb on wet clay. This right turn an climb on wet clay. This right turn, an extremely tight one, was the undoing of many, while those who navigated it successfully found that the necessary reduction in speed caused them to lose sufficient momentum for the steep, final section. A fair average performance seemed to be to reach the "5" marker, but John Harrison went well for "3", and Ron Kemp did even better to reach "2".

The fifth hill started gently enough, but very soon ran into an awkward, adverse-camber right-hander before adverse-camber right-hander before carrying on upwards over rocks and bracken to turn right before a steep climb on the sticky, wet clay. The first right-hander stopped most people, but John Harrison received a loud burst of applause for the first of a very few clean sticks. Note that the state of the s climbs. Next came another awkward one, kinking to the right after an initial bump before a gentle gradient which led to a deceptively difficult hump in the

to a deceptively difficult hump in the ground. Then came a swing to the left and a final climb to the top. Particularly good climbs were made here by Eric Jackson and T. A. Marshall.

The seventh hill yet again caught out virtually the whole field. Starting on a level patch of grass, the course ran through a small pond before turning left and steeply unwards on a mixture of and steeply upwards on a mixture of grass and bracken. The "small pond" quickly became a morass, and most failed on the turn. Eric Jackson tried a new on the turn. Eric Jackson tried a new tack, running as wide as the course would permit to reach "4" while the rest stopped at "7" or "8", and Marshall tried on similar lines, but could only manage "5". Charles Pollard was another of the shrewd ones who saw the possibilities of this line of approach, but was unlucky to stop at "5".

Hill No. 8 started in a narrow gulley before plunging down into a hole, up

before plunging down into a hole, up



REIGNING trials champion Charles Pollard goes through the swamp which formed part of the early stages of Hill No. 7, to win a special award.

and out again and on uphill, over a surface of wet grass and bracken. This was found to be either easy or impossible, the experts mostly going through with ease while the less experienced stayed

Hill No. 9 was another very long one, starting with a gentle, bracken-covered slope to turn right and plunge steeply downhill. Then came a hairpin left turn on sharp adverse camber and a steep uphill climb to turn right at the top, followed by a left turn which was again on an unwholesome adverse camber. Surface varied between bracken, wet, dead leaves, grass and wet, bare rock to make the hill a really searching test of skill. Several drivers failed on the initial slope, and many more were foiled by the bottom hairpin, but Eric Jackson, John Harrison, Geoff Newman, Peter Highwood, Charles Pollard and Rex Chappell all made it look relatively simple.

The tenth hill disappeared from sight into the far distance when viewed from the start line. The first 50 yards or so comprised a rock-strewn path, rising on a gentle gradient and falling away steeply to one side. Then came a blind lefthander, a short, steep straight and a right-angled right-hander leading to a bracken-covered final section which went bracken-covered final section which went up like the side of a house. Eric Jack-son made one of the best climbs here, arriving round the blind corner at a high rate of knots shouting "Where now?" He quickly discovered, took a wide line on the right-hander and climbed to "3", while the majority of the field failed to reach the blind corner. The usual experts made good climbs here, including a hectic but effective approach from Ernie Chandler's VW-powered car.

The 11th hill stopped the entire field, as might have been expected. It started in a hub-deep swamp, leading to a left turn on ground still soggy to curve right and up-hill on adverse camber before reaching a left turn which led to the steep finish. No one got past the first left-hander, while only a handful managed to extricate themselves from the swamp under their own steam. These few included Pollard, Chappell and Jackson, the rest practically sinking.



Hill No. 12 started in a "dried-up" pond-bed, the course then turning right pond-bed, the course then turning right to climb steeply on grass and bracken, a surface which quickly cut up into a sort of black, peaty mixture providing almost no grip at all. At least so far as the early numbers were concerned, no one bettered "9", failing early after (or even at) the right-hander. Next came an interesting hill which in fact was an interesting hill which, in fact, was more difficult than it looked. The start led on to a short, steep hill, over a high bank, and then down into a hollow. At the end of the downhill section came a tight left turn, after which came a steep, right-hand curving climb to the finish. Alec Francis and Ron Kemp both did well here, but each clipped a marker lower down. John Harrison started a vogue for running wide between two markers to get a good run at the last section, but on this the marshals frowned. As the event went on, succeeding cars cut up the surface of the initial climb, and but for the very skilled this was definitely an "early numbers" hill.

The 14th hill started in a pond. Then came a right turn, after which the course

ran on up the edge of a ridge over a gentle gradient. This was a hill for the "tricklers", but even so it presented little difficulty, and only a few cars incurred

penalties here.

Last hill of the morning started with a run through a narrow gulley, steeper than it looked and with a very sticky surface. Then came a right turn up and over a steep bank, down into a shallow pit and out again to a steep finish. This last was climbable, but of those who succeeded almost all clipped a marker on the way.

By this time Eric Jackson was already the holder of a five-mark lead, having incurred 65 penalties compared with Rex Chappell's 70. In third place was John Harrison, with 73, then came Geoff Newman (76), Charles Pollard (77) and Peter Highwood (78).

For the afternoon 10 of the morning's hills were used, those cut out including the now totally impossible 11th hill.

Those retained were modified to some degree to make the impossible climbs merely difficult, and the easy climbs difficult as well and the easy climbs difficult. cult as well, and by and large this worked well. But Eric Jackson was not to be beaten, and by the end of the day he had incurred only 93 penalty marks, while Rex Chappell lost a further 33 marks, five more than Jackson, to finish second with a total of 103. Geoff Newman moved up to third place with a total of 112, while John Harrison, third at lunch, lost another 46 marks to drop to sixth place.

The most amazing feature of the final results, however, was this: Charles Pollard and Peter Highwood tied for fourth place with a total of 114 marks each. At last year's trials championship event, held on the same ground and using many of the same hills, these two drivers had also tied-for the championship! Quite what this proves we are not prepared to say, but at least it is the most incredible

coincidence!

MARTYN WATKINS.

Results

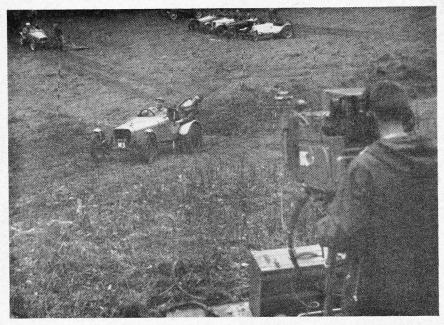
High Peak Trophy (Best Performance): Eric Jackson. 93 marks lost. Beaston Trophy (Second Best Performance): Rex Chappell, 103. Needham Trophy (Third Best Performance): Geoff Newman, 112. Best Sheffield and Hallamshire Member: Jackson. Special Awards: Charles Pollard and Peter Highwood, 114; John Harrison, 119; Ron Kemp and T. A. Marshall, 139. Team Award: The Highwaymen (Highwood, Pollard and Newman).

ALL HANDS rush to help Faulker out of trouble. Very few got through this difficult section without sinking into the mire.

Club News

By MICHAEL DURNIN

REGS are now available for Swansea M.C.'s national Rally of the Vales, 3rd-4th December. This 350-mile event counts towards the Welsh Rally Championship and starts from Swansea, Cardiff and Gloucester. Secretary of the event is A. E. Dryden, "Rochester", 6 Wimmerfield Avenue, Killay, Swansea, Glam, and all entries must reach him by 28th November. . . . Sunoac will have their Airline Rally on 19th-20th November, co-promoting with B.A.R.C. (Yorks). This is something out of the ordinary in rallies. Within the limits of the area in which it is held and the following provisos as to time and distance, competitors may choose their own journey and route. They must call at the compulsory night stop and any other control which the organizers may think fit to specify within certain time limits. Distances are measured in a straight line, not on the road, and are known as air miles. They are ascertained from the $\frac{1}{4}$ in. to the mile O.S. Map and airline distances officially notified must be taken as accurate for the purpose of this event. speeds are quoted as air miles per hour (a.m.p.h.) and for this purpose an air mile is taken as the equivalent of 11/4 road There will be starts at Buxton and at Boroughbridge and this 15-hour event is open to members of M.M.E.C., London M.C., M.G.C.C., Hagley and D.L.C.C., Shenstone and D.M.C., Bugatti O.C., Sheffield and Hallamshire M.C., Airedale and Pennine M.C. and the De Lacy M.C. Regs are available from J. D. Woodhouse, 106 Jockey Road, Sutton Coldfield, who must have all entries by 14th November.... Farnborough and D.M.C. are to have their Winter Mixture Rally, a 300-mile event run on map references only, on 3rd-4th Decem-There will be starting points at London and Farnham and the event will finish at Hindhead. The event is open to B.A.R.C., Brighton and Hove M.C., Cemian M.C., East Surrey M.C., Guildford M.C., Haslemere M.C., London M.C., Sevenoaks and D.M.C., B.P.A.C. and Verulam A.C. Secretary of the event is H. W. Greenwood, "Torestin", Rectory Road, Farnborough, Hants. . . . Full details of Club Peugeot may oe had Full details of Club Peugeof may be had from M. D. G. Wainwright, 18 Artillery Mansions, London, S.W.1. . . Verulam A.C., North London E.C.C. and Herts A. and Ae. C. are to have a closed 100-mile rally on 27th November. Details from C. J. Bayley, 11 Palfrey Close, St. Albans. . . The Moonlight Rally will be promoted on 10th-11th December by North Midland M.C. Sheffield and Hal-North Midland M.C., Sheffield and Hallamshire M.C. and Rotherham and D.M.C. and will cover some 2.0 miles in the Peak District. The event is open to B.A.R.C., Lancs and Ches C.C., Liverpool M.C., Nottingham S.C.C., Bolton-le-Moors C.C., B.R.S.C.C., De Lacy M.C., Eastwood and D.M.C., M.G.C.C., and 750 M.C. and regs are available from C. L. Smith, 22 Edge Hill Road, Sheffield 7, who must have all entries by 30th November. M.G.C.C. are to by 30th November. . . . M.G.C.C. are to have their annual dinner and dance on 25th November in the Kent Suite, Bellevue, Manchester. Tickets from Arthur Sherratt, 1 Birley Street, Bury. . . . W. T.



ON THE TELLY! Before the slightly inhospitable scrutiny of a B.B.C. television camera, Ron Kemp sets off to tackle one of the hills in Saturday's London M.C./B.B.C. Television Trophy Trial, won by the Midlands team by a margin of 15 points over the South.

Coming Attractions

12th November. Bristol M.C. and L.C.C. Fedden Trophy Trial, Bristol Airport, Lulsgate. Start, 10.30 a.m.

19th-20th November. Sunbac Airline Rally. Starts from Buxton, Derbyshire, and Boroughbridge, Yorks.

Birmingham Y.C.M.C. Midland Rally. Starts Birmingham Civic Centre, 8 p.m.

20th November. Leicestershire C.C., John Bull Trial. Starts from the Fox and Hounds, Skeffington, near Uppingham, at 11 a.m. 21st-26th November. R.A.C. British

Rally. Starts Blackpool at 6 p.m.

3rd-4th December. Swansea M.C.

National Rally of the Vales.

Starts from Swansea, Cardiff and Gloucester.

Farnborough and D.M.C. Winter Mixture Rally. Starts Farnham and London.

Flett, Secretary of the Otago S.C.C. of P.O. Box 299, Dunedin, New Zealand, would like to correspond with British club officials about competitions. . . . Birmingham Y.C.M.C. Mıdland Rally will be on 19th-20th November and will start from Birmingham Civic Centre on a 300-mile route. The event is open to Linden C.C., Stafford and D.C.C. Walsall and D.C.C., Hagley and D.L.C.C., Morgan 4/4 C., Worcestershire M.C., 432 M.C. and Wolverhampton and South Staffs C.C. and regs may be had from Mrs. J. M. Lawrence, 90 Croftdown Road, Birmingham 17, who must have all entries by 16th November. . . .

THAMES ESTUARY A.C. KITTENS' EYES RALLY Provisional Overall Results

1, E. Hatchett (Triumph Herald), 40 marks lost; 2, R. A. Clift (Triumph TR3), 50; 3, P. B. Kerridge (M.G.A), 130; 4, R. Michalkiewicz (Triumph TR3), 130.

NORTHALLERTON AND DISTRICT MOTOR CLUB

President's Trophy Rally

The Northallerton and D.M.C.'s last rally of the season, for the President's Trophy, was run recently over a tough, but well laid course. Map references were used throughout the rally, the first half of which was straightforward, with no penalty for being early at the seven section controls. Each competitor was allocated an average speed depending on the crew's experience and the type of their car, the speeds being 26, 27 or 28 m.p.h., but all crews managed to find complications where none existed, the last map reference being a case in point.

The second half after the tea halt was a very well devised regularity section, with undisclosed time controls at many of the map references, which were given for each mile of the route, so as to help competitors without trip mileage recorders in their cars. Competitors were also supplied with simplified average speed tables, but as only a few of them seemed to read the enclosed comprehensive instructions, more penalties were collected.

Once again complications were found, the flyover at map reference 91/335810 caused trouble for more than one competitor. Another competitor, after finding himself up the wrong road, attempted to turn round by reversing into a gateway to a field—he emerged triumphant after 45 minutes mud plugging to find that the rest of the checkers had retired to the finish in the Harewood Arms, Northallerton.

Within minutes of the last crew finishing, full results were available for inspection, thanks to weeks of preparation by the organizer, J. Waller and his band of willing helpers. The results of the event, which was unanimously voted a great

Which was unanimously voted a great success, were as follows:

President's Trophy for Best Driver: J. B. Wigston. Easthope Cup for Best Navigator: B. W. Crosbie. M. Blewitt Trophy for Second Driver: M. Durkin. D. Gamble Trophy for Second Navigator: L. Fraas, M. Blewitt Cup for Best Novice Driver: B. W. Cuming. D. Gamble Cup for Best Novice Navigator: M. J. R. Lanng.

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(Continued on page 691)



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TR3A, 1960. B.R.G. Leather upholstery. Three-speed overdrive, "X' tyres. Nominal mileage.
T95 Aston Martin DB2, bodywork in Alfa red, fitted with chrome wire wheels, "X' tyres, radio and heater, engine recently overhauled. This car is a truly magnificent example. 3 owners from new.
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MGA. Roadster, 1958 model. Black with red hide. Two owners, various extras, specimen condition throughout.
TR3 1957, disc brakes, overdrive, white with black hard top.
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Cooper 2-seater sports, similar to AC Ace, B.R.G., hard top.
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Racing wheels, 4.3 and 4.55 ratios. £550.—Chris
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(Continued on page 693)

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owner only. Offered at a saving of nearly £150 off list.

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trim. Wire wheels, disc brakes, Stage 3 unit, etc. An exciting road car. £1,585.

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black leather interior. Disc brakes, tonneau cover, heater, etc.

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Jaguar X K 150 marked Head Coupe. 3.4 litre 1958 series. Gleahnelis, also disc brakes, overdrive, heater, twin spots, etc. 27,000 miles only, and one owner since new. Perfectly maintained throughout.

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Classified Advertisements-continued M.G.-continued

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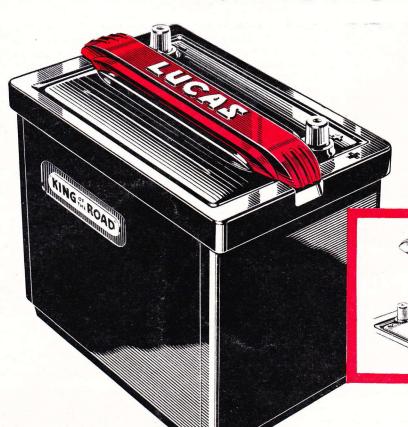
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