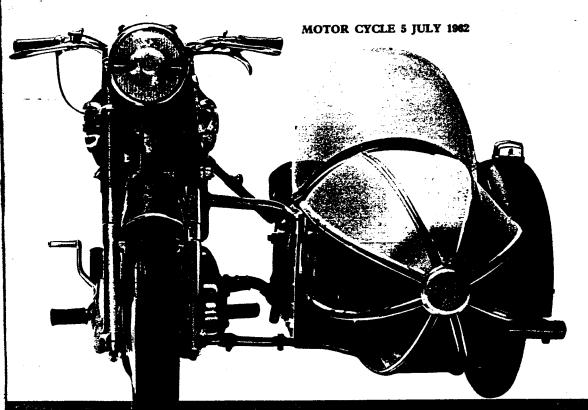
it was
pt the
band
les of
ational
p-cross
gs are
ner the
of the
ise one
a. And
ne was



ROAD TESTS OF CURRENT MODELS

348 c.c. Matchless G3 plus Garrard Grand Prix makes a trim, sporting outfit

MERCURY and GRAND PRIX

F you have never driven a sporting sidecar outfit, your motor-cycling education is incomplete. Such are the sentiments of hundreds of seasoned enthusiasts.

But wait. Not everyone can take on the high initial cost and heavy drinking habits of a big twin. If this is your problem, then the latest 348 c.c. G3 Matchless Mercury plus the sporty-looking but very comfortable Garrard Grand Prix, might well provide the answer.

With a 60 m.p.h.-plus maximum, this outfit contrives to squeeze no less than 58 miles from every gallon of petrol while cruising at a steady 50 m.p.h. And, what is more, it does this still leaving the firm impression that it is a zestful, sporting machine.

The Matchless was the same machine as tested in solo trim

(report: Motor Cycle, May 10). Let's recap briefly on the changes embodied in the new model.

Bore and stroke have been altered from 69×93mm to 74 ×81mm, and, because of the bigger bore, it has been possible to increase the valve sizes.

Carburettor choke is up from

SPECIFICATION

ENGINE: Matchless 348 c.c. (74×81mm) overhead-vaive single. Crankwhalf supported in plain and ball bearings: roller big-end bearing,
light-alloy cylinder head; compression ratio 8.5 to 1. Dry-sump lubrication; oil-tank capacity 4 pints

CARBURETTOR: Amal Monobloc; air slide operated by handlebar

IGNITION and LIGHTING: Lucas coil ignition with auto-advance. Lucas RM15 alternator, with rotor mounted on drive side of crank-shaft, charging Lucas 6-volt, 11-amp-hour battery through rectifier. Lucas 7in-diameter headlamp with pre-focus light unit.

TRANSMISSION: A.M.C. four-speed foot-change gear box. Gear ratios: bottom 16.6 to 1; second 11.05 to 1; third 7.91 to 1; top 6.48 to 1. Multi-plate clutch with bonded friction facings running in oil. Primary chain, ½ x0.305in in light-alloy oil-bath case. Rear chain, ½ x8 in with guard over top run. Engine r.p.m. at 30 m.p.h. in top gear, 2.550.

FUEL CAPACITY: 41 gallons.

TYRES: Dunlop 3.25 x 19in; ribbed front, Universal rear.

BRAKES: 7in-diameter front and rear; finger adjusters.

SUSPENSION: A.M.C. Teledraulic telescopic front fork with hydraulic damping. Pivoted rear fork controlled by Girling spring-and-hydraulic units with three-position adjustment for load.

WHEELBASE: 56in unladen. Ground clearance, 5in unladen. Seat height, 31in unladen.

WEIGHT: Complete outfit, 567lb fully equipped, with full oil tank and approximately one gallon of petrol.

PRICE: Machine only, £248 4s Sd including British purchase tax. ROAD TAX: Complete outfit £6 a year; £2 4s for four months.

MAKERS: Matchless Motor Cycles, Plumstead Road, London, S.E.18. DESCRIPTION: Motor Cycle, 14 September, 1961.

SIDECAR

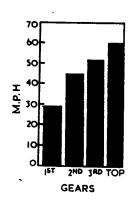
MODEL: Garrard Grand Prix single-seat sports.

BODY and CHASSIS: Garrard integral metal construction with light-alloy panelling. Four attachments to machine. Pivoted fork wheel suspension controlled by Armstrong spring-and-hydraulic unit. Spoked wheel with 3.25×16in Avon Safety Mileage Mark II tyre. Fixed trans-parent plastic screen. Collapsible hood secured by press-stude. Dimen-sions: ground clearance, 6in unladen; track, 41in; overall length, 87in; seat back to nose, 45in; seat to hood, 30in; seat cushion and squab combined, 44in long x19in wide; luggage compartment (irregular shape), 36×18×14in

PRICE: Complete, £98 6s including British purchase tax. (This price includes the brake which has been added to the standard specification since this model was submitted for test).

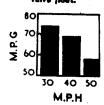
MAKERS: Garrard Sidecars, Ltd., 13, Third Avenue, Bletchley, Bucks. DESCRIPTION: Motor Cycle: 28 September, 1961.

PERFORMANCE DATA



HIGHEST ONE-WAY SPEED: 62 m.p.h. (conditions: light tail (conditions: light tail wind; rider wearing twopiece suit and over-boots; 12-stone pas-senger in sidecar.)

Speed in bottom and second gears limited by valve float.



MEAN ACCELERATION: 10-30 m.p.h. 7.2 sec 20-40 m.p.h. 30-50 m.p.h. 8.2 sec —— 13.4 sec 13.4 sec 17.6 sec 18.4 sec Second Third Top
Mean speed at end of quarter-mile from rest: 52 m.;
Mean time to cover standing quarter-mile: 22.8 sec.

h to rest. 36ft (surface, dry 52 m.p.h.

BRAKING: From 30 m.p.h. to rest, 36ft (surface, dry tarmac). TURNING CIRCLE: Left-hand, 15ft; right-hand, 22ft. MINIMUM NON-SNATCH SPEED: 15 m.p.h. in top gear. WEIGHT PER C.C.: 1.64 lb.

116in to 18in and exhaust pipe idmeter up by in to 1fin. The compression ratio has been raised from 7.5 to 8.5 to 1.

Unlike its predecessor, the Mercury engine now has the pushrod tubes cast integrally with the cylinder barrel and head.

More punch in the middle of the range and a generally crisper response from the engine are the main benefits from these changes. With a sidecar attached, this power bonus is even more noticeable. The outfit could be pushed all day with the speedometer needle hovering on the 55 m.p.h. mark. (The instrument read approximately 6 per cent fast throughout the range.)

Despite having had its power pepped up, the G3 remains extremely tractable —a desirable attribute in a machine used for sidecar work. The outfit could be

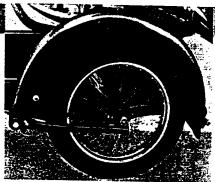
make or mar its appeal. No conditions encountered during the test, including standing in the open in rain overnight, failed to blemish the Mercury's one-kick record.

Upholding the reputation it has for sweet, positive changes, the A.M.C. gear box enabled the best use to be made of the power available. Top (6.48 to 1) and third (7.91 to 1) are ideally spaced and by "playing tunes" on these two ratios more than merely respectable average speeds could be maintained.

Bottom gear could be engaged quietly. At worst there was no more than a slight click. Neutral could be selected without bother with the outfit at rest.

The clutch engaged the drive smoothly and was not distressed by the additional weight of a sidecar, even when half-a-dozen full-throttle starts were under-





waffled along entirely unobtrusively at 30 m.p.h. in top gear.

wheel springing. The

damper can be seen through the spokes

If snap acceleration was wanted and a lower gear selected, the exhaust noise could. however, become obtrusive.

Mechanical noise was muted. Only slight hiss came from the carburettor, which is not fitted with an air filter.

Premium-grade petrol was used throughout the test and no pinking was experienced. Driven hard, and with full use made of the gear box, the Matchless used no more than a gallon of petrol every 50 miles. Oil consumption during the 700 miles covered was negligible. Oil-tightness of the engine and gear box was exemplary.

Whether an outfit is used for shopping or touring, the ease with which it can be started can

taken. The clutch had to be slipped when restarts were made on a 1 in 6 gradient. A 1 in 12 main-road hill was surmounted at 40 m.p.h. in third аеаг.

ſŧ

d

lc

Ы

OI

tc

TI

W

to

se

br

siv

re

tes

SU

COI

Driving position on the Matchless is comfortable and the rider's left leg is not hampered by sidecar connections.

Sidecar alignment was just right and the Matchless and Garrard steered hands-off on a level road. Reduced front-fork trail would have lessened the effort required for cornering. However, correct use of the throttle, particularly to make the machine run round the sidecar on left-handers, helped to reduce steering heaviness.

Handling was such that swervery could be zestfully tackled.

ng

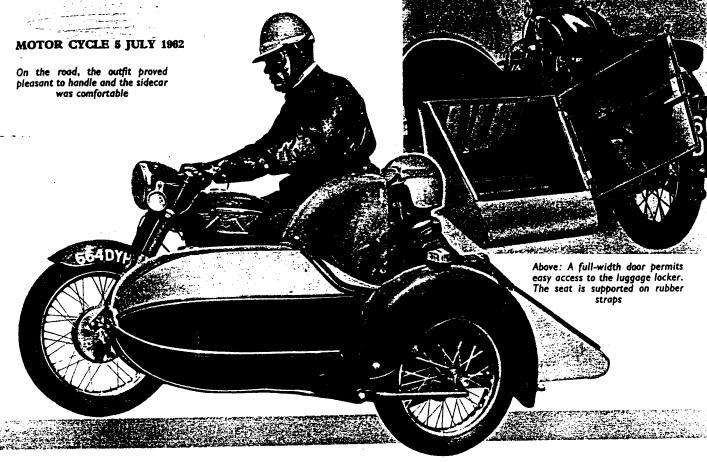
in the jes, sled the to are ring nore

:ged

s no

lick.

ritht at trive ssed of a ozen ider-



When the outfit was being held hard into tight right-handers, some trace of front-wheel hop was evident, though the suspension absorbed all normal road shocks and provided a comfortable ride. A steering damper is fitted and was set so that it was just biting.

Passenger comfort is good. The Grand Prix seat cushion and squab are of hammock type, supported on broad rubber straps.

Weather protection is provided by a hood, erected in a few seconds, and fastened to the double-curvature, transparent-plastic screen by press studs. A lockable luggage compartment behind the seat provides reasonable stowage space.

Good braking enabled full use to be made of the performance. The figure of 36 feet from 30 m.p.h. is extremely creditable when it is considered that the total weight of rider and passenger was 24 stone. Both brakes were light and progressive in operation and did not require adjustment during the test.

Main-beam illumination was such that all the performance could be used after dark. Dipped

beam cut-off was satisfactory. The horn note was inadequate.

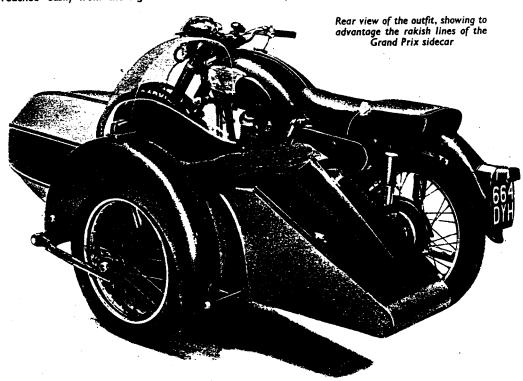
Accessibility is usually impaired when a sidecar is fitted. On the Mercury, however, the tappets, contact-breaker points and carburettor can all be reached easily from the right

hand side of the machine.

Unhappily, the upper-rear sidecar connection fouls the hinged lid of the battery and tool compartment. The lid can be opened partially, permitting the tool roll to be removed. But to service the battery, the

connection had to be parted.

The Mercury-Grand Prix outfit makes a good-looking zestful vehicle guaranteed to make journeys a lot of fun while helping to keep running costs down to sensibly economical levels.



to be were .nt. A is surthird

the leand s not con-

18 just

ss and
ff on a
nt-fork
ed the
nering.
of the
make
he sidelped to
ss.

1 that :estfully