S WINGING back into full production goes the Woolwich factory of Norton-Matchless Now Woolwich factory of Norton-Matchless. Now that the reorganization of AMC after the acquisition by Manganese Bronze, Ltd is settling down, the new policy is coming into operation right away.

For 1967 the AJS, Norton and Matchless ranges have been streamlined to concentrate on large-capacity mounts. Between the three makes, nine models are offered-six powered by the 745 cc Atlas engine, two six-fifties and a five-hundred scrambler. Two of these, Norton six-fifty and seven-fifty, are to police specification, finished in ivory and with provision for special two-way radio equipment.

Forming the backbone of the range, the Atlas engine has been modified in detail over the past year. Centre of attention has been the lubrication system, starting with the pump. It now has a six-start worm drive instead of three and this doubles the delivery flow.

To accommodate a bigger supply of oil to the pump, a larger-diameter pipe between the oil tank and crankcase is used. Internally, the oilways in the crankcase have been enlarged.

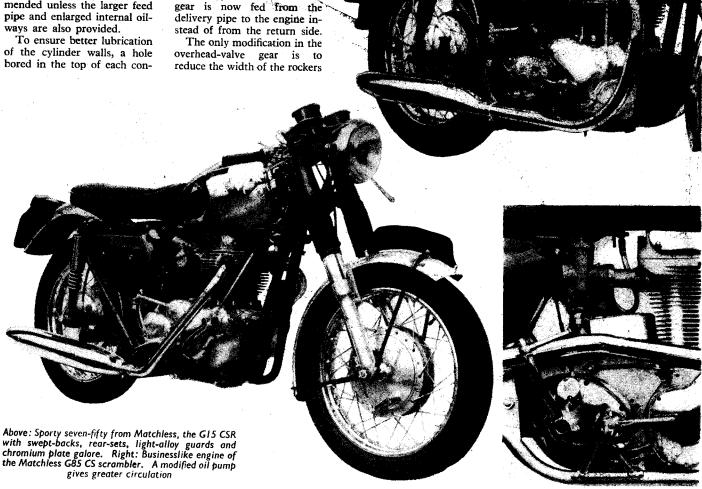
Incidentally, fitting double-flow pump to an existing engine is not recommended unless the larger feed pipe and enlarged internal oilways are also provided.

To ensure better lubrication of the cylinder walls, a hole

BIG GUNS from WOOLWICH

necting rod big-end eye allows a certain amount of oil to squirt out on to each bore. A Duaflex oil-control ring on each piston-in addition to the usual two compression rings-prevents the extra oil getting up into the combustion chambers.

Another major change. which is the only one visible externally, is that the rocker gear is now fed from the delivery pipe to the engine in-



AJS Matchless Norton	CAPACITY, BORE STROKE AND TYPE OF ENGINE	COMP RATIO	NOILIND	GEAR RATIOS				CAPACITY		SUSP		SIZE OF TYRES				
				юттом	SECOND	THIRD	гор	UEL	OIL	FRONT	REAR	FRONT	REAR	Wt Ib	PRICE WITH TAX	
					S					一					<u> </u>	s d
AJS 33 33 CSR	745 cc (73×89mm) ohv twin 745 cc (73×89mm) ohv twin	7.6 7.6	M M	11.55 10.8	7.67 7.17	5.5 5.15	4.51 4.22	4½g 4½g	4pt 4pt	T T	PF PF	3.25×18 3.25×19			373 376	12 2 15 2
MATCHLESS GIS GIS CSR G85 CS SCRAMBLER	745 cc (73×89mm) ohv twin 745 cc (73×89mm) ohv twin 497 cc (86×85.5mm) ohv	7.6 7.6 12	EEE	11.55 10.8 19.09	7.17	5.15	4.51 4.22 7.46	44g 44g 2g	4pt 4pt 4pt	T T	PF PF PF	3.25 × 18 3.25 × 19 3.00 × 20	3.50×19	426	373 376 390	
NORTON DOMINATOR 650SS ATLAS	647 cc (68×89mm) ohv twin 745 cc (73×89mm) ohv twin	8.9 7.6	M M	11.3 11.3	7.5 7.5	5.4 5.4	4.4 4.4	3 g 3 g 3 g	4½pt 4½pt	T T	Pf PF	3.00×19 3.25×19			367 375	6 U 3 8

MANUFACTURERS: Norton—Matchless, Ltd, Plumstead Road, London, SE18.

ABBREVIATIONS: M, magneto; T, telescopic; PF, pivoted fork. Tyre sizes are in inches.



the two models are an upswept handlebar on the Ajay and a variation in colours—all-black finish for the G15 and blue tank for the AJS.

The two CSR models are sports versions, without the air filters fitted on the standard versions, and with narrow-blade, light-alloy mudguards, low-level handlebars, swept-back exhaust pipes and rear-set footrests, gear change and brake assemblies.

Wheel diameter is increased to 19in front and rear. Rubber gaiters on the front fork, discarded dust covers on the rearsuspension units, flat, sporting dualseat and chromium-plated petrol tank and headlamp add lustre to the sporty appearance.

But for engine capacity and detail differences, the Norton 650SS and Atlas 750 are identical. Both utilize the famous race-bred Featherbed frame, with two-way progressively damped Roadholder forks and full-width, lightalloy hubs.

Main difference is that the 3.50×19in Avon Grand Prix rear tyre on the six-fifty is replaced by a 4.00×18in cover on the Atlas, and a 3.25in-section front cover is used on the Atlas in place of a 3.00in tyre.

In comparing Atlas and sixfifty engines the only external engine difference is the breather pipe from the camshaft tunnel on the Atlas, but the two models can readily be distinguished by the cherry red petrol tank on the Atlas, compared with a silver tank on the 650SS.

Both models now have paired speedometers and revmeters mounted on a chromium-plated bracket across the fork top yoke. Readily accessible between the two instruments is the light switch.

The police mounts follow the same basic specification as the standard models with certain detail differences, the most noticeable of which is the all-ivory finish.

Engines are standard except for the addition of air filters.

A short seat leaves room for a platform for the two-way wireless gear mounted behind the rider and the tank-top is modified to accommodate the receiver.

Other alterations include an upswept handlebar and a blue traffic-duty light mounted in the middle of the bar.

Although downswept handlebars are fitted to the sports Matchless and AJS, and an upswept type on the AJS 33, alternative bends are available.

On all models except the scrambler, revmeters are now included in the specification.

A he-man's mount, the very potent scrambler uses an allwelded, light-gauge duplex frame with the rear fork supported at its extremities in gusset plates on the main

The lightweight front fork has been specially developed for scrambling, in conjunction with a lightened hub, and a magnesium-alloy hub-originally used on the road-racing mounts-is fitted at the rear.

Weight is further reduced by the use of glass fibre for the petrol tank and air-filter panels, which double-up as side number plates. Between the rear engine plates is the four-pint, light-alloy oil tank.

Finish of the glass fibre is red, with silver on the frame and highly polished lightalloy parts.

FIRST NATIONAL WIN FOR GORDON **FARLEY**

AFTER consistently getting among the first half-dozen in top-bracket trials recently, Gordon Farley (199 Triumph) managed to pull off his first national win in last Sunday's Southern Trial. Even so, it was by the narrow margin of a better performance on a downhill coasting special test after a tie of ten marks lost each with Dennis Jones (254 Sprite). Farley wins the "Motor Cycle "Trophy.

Top sidecarrist was Brian Hunt (597 Matchless) with 79 marks lost, who forced his way round the difficult sections to finish 20 ahead of Charlie Fryer (497 Ariel).

Heavy overnight rain, which

continued throughout the day,

fortunately did not cause the

sections to deteriorate too

much largely because many

were rocky, an unusual feature

for a trial in the southern

three main groups of sections.

The first, Pinehurst, included a narrow, six-section gully filled with rocks; it was

cleaned in its entirety only by

Farley and Jones. Next best

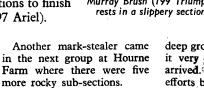
was Peter Stirland (246

Greeves) who needed just one

The 20-mile route took in

counties.

prod.



Best rides here were Jones and John Lee (246 Butler) with cleans in all five, and Arthur Dovey (244 Bultaco) and Peter Fraser (246 Greeves) who dabbed once each.

Back at Isenhurst, the last group near the finish, a steep muddy hill looked like deciding the solo issue for Farley and Jones were level pegging when they arrived.

Although it had been cleaned by earlier numbers, a deep groove near the top made it very tricky when the pair arrived. Despite full-blooded efforts both stopped.

efforts both stopped.

Best Solo.—G. J. Farley (199
Triumph), 10 marks lost.

Best Sidecar.—J. B. Hunt (597
Matchless), 79.
Best 250 cc.—A. Dovey (Bultaco),
14. Best 350 cc.—D. Jones (254
Sprite), 10. Club Team Prize.—Southampton Vikings: Dovey, G.
Chandler (246 Greeves) and I.
Barrett (244 Bultaco), 75.

First-class Awards.—J. E. Lee (246 Bulter), 19; L. C. Telling (244
Bultaco), 21; C. Leighfield (246
Sprite) and D. J. Addsett (246
Greeves), 23; Chandler, 25; C. F.
Dommett (247 Cotton), 26; D.
Brown (199 Triumph) and P.
Dunkley (246 Greeves), 28; P. T.
Stirland (246 Greeves), 22; C. Fryer (497 Ariel sc), 99; C. Spittle (499
BSA sc), 100.



Murray Brush (199 Triumph) keeps his feet on the rests in a slippery section of the Isenhurst group

Urgeful Matchless big single for racing on the rough. The lightweight frame, and glass-fibre tank and air-filter box contribute to weight saving

Horror **Epic**

SATURDAY sees the famous Scott Trial on the Yorkshire moors near Richmond. Once again just about all the top names in the trials world will be gathering to pit their skill against the 65-mile course on the rugged moors, plus the relentless clock, in this timeand-observation horror epic of the trials calendar.

Winner will be the man who can coax his machine along faster than the rest yet keep his feet on the pegs longer in the sections.

Punishment begins at 9.30 am, three miles west of Richmond on the old Reeth road.