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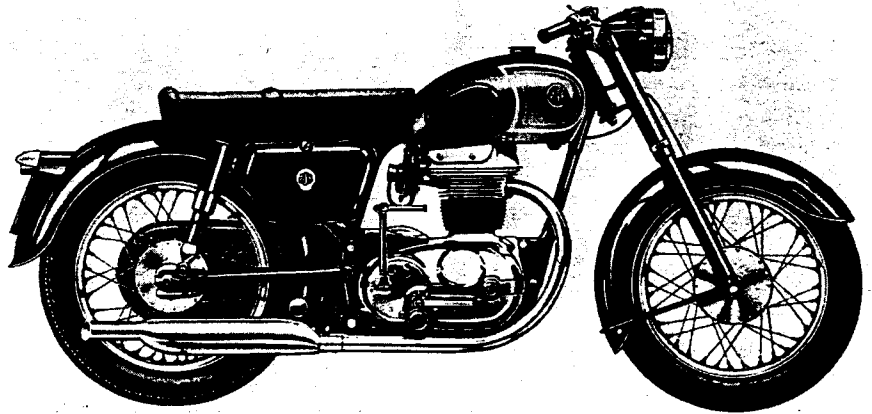
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The new 250 cc **AJS** has heavy finning on cylinder barrel and head, extended front fender for weather protection. Engine and gearbox look like a unit, but they are separate.

## AMC Unveils New 250cc AJS, Matchless

A new lightweight has been added to the Associated Motor Cycles stable. It is a single cylinder four stroke that promises high performance and economy from its 250 cc engine. As is common practice with A.M.C., the new machine will bear both the **AJS** and **Matchless** brand names, although the models will be identical in everything but the color scheme. The **AJS** will be finished in blue, and the **Matchless** in Cardinal red.

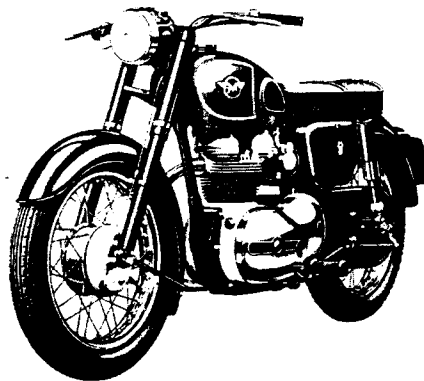
The engine has a 70 mm bore and a 65 mm stroke. Head is cast aluminum

with cast-in iron valve seats, and the barrel is cast iron. Push rods for the overhead valves run through cast tunnels in the barrel and head and are driven from a single camshaft. Dry sump lubrication is used and an A.C. ignition system. Compression ratio is 7.8 to 1. On the timing side the crankcase casting forms part of a 2½ pint oil reservoir—a completely new departure for this factory, which has always had separate tanks on all its models.

The engine and gearbox look like they are in unit, but are actually separate. A special casting fits over the timing side and blends the two together, while the primary case gives the left side a unitary look. This way the 250s have the advantages of both the unit and separate engine-gearbox designs.

One unusual feature of the new 250 is that the axis of the cylinder barrel is mounted slightly forward of the crankshaft in what is known as "desaxe" arrangement. Among the technical and practical advantages of this design is the reduction of side thrust on the piston in the early stages of the power stroke, with consequent reduction of wear.

The new models will be available at **AJS-Matchless** dealers in July, **Cooper Motors**, **AJS-Matchless** distributor advises. ★



**AJS** and **Matchless** 250s imported into U.S. will have western type handlebars. Cylinder and head are "twisted" 20 degrees for better cooling, accessibility. Rear chain is fully enclosed.

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