DATA

Engine number—on left side of crankcase below cylinder base.
Frame number—at top of head tube.
Engine capacity—B32GS 348 c.c. (21.24 cu. in.); B34GS 499 c.c. (30.45 cu. in.).
Oil tank capacity—5½ pints (3 litres).
Fuel tank capacity—2, 4 or 5 imp. gals. (9, 18 or 22½ litres).
Gear box capacity—14 fl. oz. (400 c.c.).
Front fork capacity (each leg)—7½ fl. oz. (213 c.c.).
Primary chain case capacity—8 fl. oz. (225 c.c.).
Overall length—85 in.
Wheelbase—56 in.
Ground clearance—5 in. (6½ in. Scrambles only).
Saddle height—30½ in. (31½ in. Scrambles only).
Overall height—40 in. (41 in. Scrambles only).
Handlebar width—28 in.
Steering head angle—61°.
Steering lock—45°.
Machine weight—380 lb. (Touring and Clubman's),
350 lb. (Scrambles and Racing).
Cylinder bore (nominal)—B32GS–71 mm.; B34GS–85 mm.
Cylinder bore (actual)—B32GS–2.794–2.793 in.; B34GS–3.345–3.344 in.
Stroke—88 m.m.
Connecting rod internal diameter (small end)—.7506–.7503 in.
Connecting rod internal diameter (big end)—1.7704–1.7702 in.
Connecting rod centres—BB34GS–7⅞ in.; BB32GS–6⅞ in.; CB and DB–6 $\frac{13}{32}$ in.
Gudgeon pin diameter—.7502–.7500 in.
Rocker spindle diameter—.561–.560 in.
Cam spindle diameter—.6235–.6230 in.
Piston ring (compression)—.0625 × .120 in.
Piston ring (oil control)—.125 × .104 in.
Valve spring free length (outer)—BB and CB engines 2.156 in.
DB engines 1.670 in.
Valve spring free length (inner)—BB and CB engines 1.75 in.
DB engines 1.500 in.
Inlet valve timing (at .018 valve clearance).

Cam.	Opens before T.D.C.	Closes after B.D.C.
65-2420	25°	65°
65-2442	65°	85°
65-2444	60°	85°
65-2446	63°	72°
65-2448	43°	73°
65-2454	50°	80°

Engine shaft pinion 65-696 advances the timing by 10°.
Exhaust valve timing (at .018 in. valve clearance).

Cam.	Opens before B.D.C.	Closes after T.D.C.
65-1891	85°	60°
65-2420	65°	25°
65-2446	80°	55°
65-2450	70°	45°
65-2452	64°	34°
65-2491	95°	50°

Engine shaft pinion 65-696 advances the timing by 10°.
Front chain size—½ × .305 in.
Rear chain size—⅝ × ¼ in.
Engine sprocket—16, 17, 18, 19, 20 or 21 teeth.
Clutch sprocket—43 teeth (44 teeth to special order).
Gearbox sprocket—19 teeth. (Trials or Scrambles—16 teeth).
Rear wheel sprocket—42 teeth. (Trials or Scrambles—46 teeth).
Front brake size (except Scrambles)—8 in. diameter, 1¼ in. wide.
Front brake size (Scrambles only)—7 in. diameter, 1⅛ in. wide.
Front brake size (1956 Clubman's and Racing)—7½ in. diameter, 1¼ in. wide.
Rear brake size—7 in. diameter, 1⅛ in. wide.
Front suspension movement—5¾ in. Rear suspension movement—3½ in.
Dynamo output—60 watts. Battery capacity—12 ampere hours.