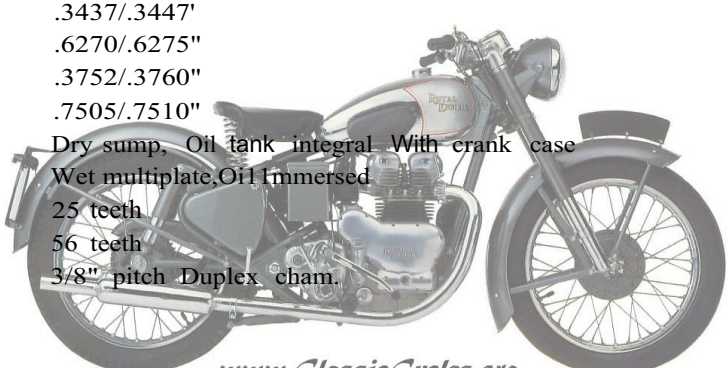
# TECHNICAL SPECIFICATIONS - BULLET - 350 CC

## Engine

### Single Cylinder 4 Stroke with Overhead Valve

| | |
|---|---|
| Cubic Capacity | 346c c |
| Stroke | 90mm. |
| Bore-Nominal | :70mm |
| Actual | 69.875 mm/2.751 in. |
| Compression Ratio | 7.25: 1 |
| Compression Pressure | 110 ± 5 PSI (recommended) |
| Engine output | 18 BliP / 5625 RPM |
| Torque | 2.74 kgm/2875 RPM |
| Piston and piston rings: | |
| Ring clearance in grooves | (Dimensions for new components] |
| Plain (2) | .00l/.003" |
| Scraper | .002/.004" |
| Ring end gar in bore | .015/.020" |
| Maximum rtr-g gap permissible | 0.030" |
| Gudgeon pin diameter | .7498/.7500'! |
| Crank pin diameter | 1.24875/1.249" |
| Connecting rod small end diameter | .7505/.7507" |
| Crankshaft: | |
| Driving side Ball bearing | 25 x 62 x 17 rom (6305) |
| Roller bearing | 25 x 62 x 17 mm (NV 305 or N 305) |
| Timing side Roller bearing | 25 x 52 x 15 mm (NU205 or N 205R) |
| Cam lift | .3125 in. |
| VaIvelift | .3125 in. |
| Valve timing with .012" clearance | |
| Exhaust opens | 75° BIDC . |
| Exhaust closes | 35°AIDC |
| Inlet opens | 30° BIDC |
| Inlet closes | 60° AIDC |
| Rocker bearing inside diameter | .625/ .626" (Dimensions for new Components) |
| Rocker spindle diameter | .6235/.624" |
| Inlet valve stem diameter | .3425/ .3430" |
| Exhaust valve stem diameter | .3405/.3410" |
| Valve guide internal diameter | .3437/.3447' |
| Valve guide extemal diameter | .6270/.6275" |
| Tappet-guide intemal diameter | .3752/.3760" |
| Tappet guide external diameter | .7505/.7510" |
| Lubrication | Dry sump, Oil tank integral With crank case |
| Clutch | Wet multiplate,Oi1 Immersed |
| Engine sprocket | 25 teeth |
| Clutch Sprocket | 56 teeth |
| Prtmary drive cham | 3/8" pitch Duplex cham. |



| | |
|---|---|
| Gear Box: | |
| Overall gear ratios | 5.32.7.26. 9.S0, & 14.S0 |
| Mainshaft ball bearings | Small- 6303 |
| | Large - 6206 |
| Final drive sprocket | 16 teeth |
| Rear drive chain | 5/S" pitch chain |
| Brake drum sprocket | 38 teeth |
| Carburettor | Mikcarb-VM-24 |
| Main jet | 90 |
| Pilot jet | 25 |
| Contact Breaker (Coll ignition): | |
| Points gap | 0.14/0.16"(0.35 to 0.4 mm) |
| TIming before T.D.C. | 1/32" (0.8 nun) |
| Spark plug | 14 mm. diameter B7HS (NOR) or equivalent |
| Spark plug gap | 0.46 to 0.50 mm |
| Condenser (Capacitor) | 0.18 to 0.25 M.F.D. |
| Suspension: | |
| Front | Telescopic, hydraulic damping |
| Stroke | 155mm |
| Rear | Pivoted fork With shock absorbers |
| Wheel Rim Type | WM 2- 19 |
| Tyre Size | 3.25 x 19 (Front) |
| Wheel Bearings: | 3.50 x 19 (Rear) |
| (Front & Rear) | 17 x 40 x 12 nun (6203) or 6203 ZZ |
| Brakes | Mechan1cal,1ntemaliy expandingshoe type |
| Front | 178 mm x 38 nun Twin Leading shoes |
| Rear | 153 mm x 25 nun Single Leading Shoe |
| Fuel tank: | |
| Full Tank Capacity | 14.5 litres |
| Reserve Capacity | 1.25 litres |
| on Capacity &: Grade: | |
| OilTank | 2.25 litres, SAE 20 W 50 |
| Fork | 200 nil. on each leg. Hydraulic oil or SAE-l 0 W 30 |
| Clutch | 420 ml. approximately SAE20 W 40 |
| Gear box | 700 grams of veedol '00' grease (for topping up use SAE-20 W 50) |
| Dimensions; | |
| Weight (Dry) | 163Kg. |
| Pay load (Max) | 172Kg. |
| Ground clearance | 14 em. (140 mm) |
| Overalllength | 212 em (2120 nun) |
| Overall Width | 75 em (750 mm) |
| Saddle Height | 85 ern. (850 mm) |
| Wheel base | 137 cm (1370 mm) |
| Electrlcals: | |
| System | 12VDC |

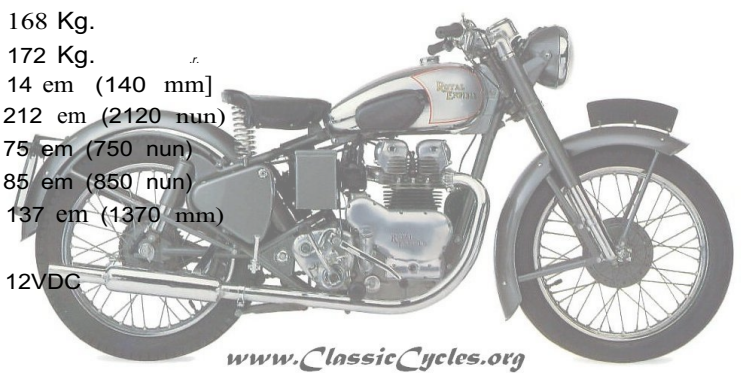
# TECHNICAL SPECIFICATIONS - BULLET - 500 CC

## Engine

### Slngle Cylinder 4 Stroke with Overhead Valve

| | |
|---|---|
| Cubic Capacity | 499CC |
| Stroke | 90mm |
| Bore-Nominal | 84mm |
| Actual | 83.96/83.97 rnm . |
| Compresston Ratio | 6.5:1 |
| Compression Pressure | 110 ± 5 PSI (Recommended) |
| Eng1ne output | 22 BHP/5400 RPM |
| Torque | 3.5 Kgm/3000 RPM |
| Piston and piston rings : | |
| ring clearance in grooves | (Dimens1ons for new components) |
| Pla1n(2) | .001/.003- |
| Scraper | .002/.004" |
| Ring end gap in bore | .015/.020" |
| Maximum ring gap permissible | 0.039"' |
| Gudgeon ptn diameter | .7498/.7500" |
| Crank pin diameter | 1.24875/1.249" |
| Connecting rod small end diameter | .7505/.750T |
| Crankshaft : | |
| D:rtv1ng side Ball bearing | 25 x 62 x 17 mm (6305) |
| Roller beartng | 25 x 62 x 17 mm (NV 305 or N 305) |
| TIming side Roller bear1ng | 25 x 52 x 15 mm (NV 205 orN 205R) |
| cam lift | .3125ln |
| Valveltft | .3125 In. |
| Valve timing with .012" clearance | |
| Exhaust opens | 75° B1DC |
| Exhaust closes | 35° AIDe |
| Inletopens | 30° B1DC |
| Inlet closes | 60° AIDe |
| Rocker bearing tnstde diameter | .625/.626" (Dimensions for new Components) |
| Rocker sptndle diameter | .6235/ .6240" |
| Inlet valve stem diameter | .3425/.3430" |
| Exhaust valve stern diameter | .3405/.3410" |
| Valve guide tnternal diameter | *.3437/.344T'* |
| Valve guide external diameter | .6270/.6275" |
| Tappet guide internal diameter | .3752/.3760" |
| Tappet guide external diameter | .7505/.7510" |
| Lubrication | Dry sump, oil tank integral with crank case |
| Clutch | Wet multtplate, oil immersed |
| Engine sprocket | 25 teeth |
| Clutch | 56 teeth |
| Primary drive chain | 3/8" pitch Duplex chain. |

| | |
|---|---|
| **Gear box:** | |
| Overall gear ratios | 5.01,6.83,9.22 & 13.93 |
| Overall gear ratios | Small - 6303 |
| | Large - 6206 |
| Final drive chain | 17 teeth |
| Rear drive chain | 5/8" pitch chain |
| Carburetor | Mikcarb-VM-28 |
| Main jet | 110 |
| Pilot jet | 25 |
| Contact Breaker (CoD ignition) : | |
| Points gap | 0.14/0.16" (0.35 to 0.4 nun) |
| Timing before T.D.C | 1/32" (0.8 nun) |
| Spark plug | NGK BRBESor equivalent |
| Spark plug gap | 0.46 to 0.50 nun |
| Condenser (Capacitor) | 0.18 to 0.25 M.F.D |
| Suspension: | |
| Front | Telescopic. Hydraulic damping |
| Stroke | 155 nun |
| Rear | Pivoted fork with shock absorbers |
| Wheel Rim. Type | WM2-19 |
| Tyre size | 3.25 x 19 (Front) |
| | 3.50 x 19 (Rear) |
| Wheel Bearings : | |
| (Front & Rear) | 17 x 40 x 12 nun (6203) or 6203 ZZ |
| Brakes | Mechanical, internally expanding shoe type |
| Front | 178 nun x 38 nun Twin leading shoes |
| Rear | 153 nun x 25 nun Single leading shoe |
| Fuel tank: | |
| Full Tank Capacity | 14.5 Utres |
| Reserve capacity | 1.25 lttres |
| oil Capacity &: grade : | |
| Oil tank | 2.25 htres, SAE-20W50 |
| Fork | 200 rnl. on each leg. Hydraulic Oil or SAE 10W30 |
| Clutch | 420 rnl, approximately SAE-20W40 |
| Gear Box | 700 grams of veedol '00' grease (for topping up use SAE 20W50) |
| Dimensions : | |
| Weight (Dry) | 168 Kg. |
| Pay load (Max) | 172 Kg. |
| Ground clearance | 14 em (140 mm] |
| Overall length | 212 em (2120 nun) |
| Overall width | 75 em (750 nun) |
| Saddle Height | 85 em (850 nun) |
| Wheel base | 137 em (1370 mm) |
| Electrlcals : | |
| System | 12VDC |



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