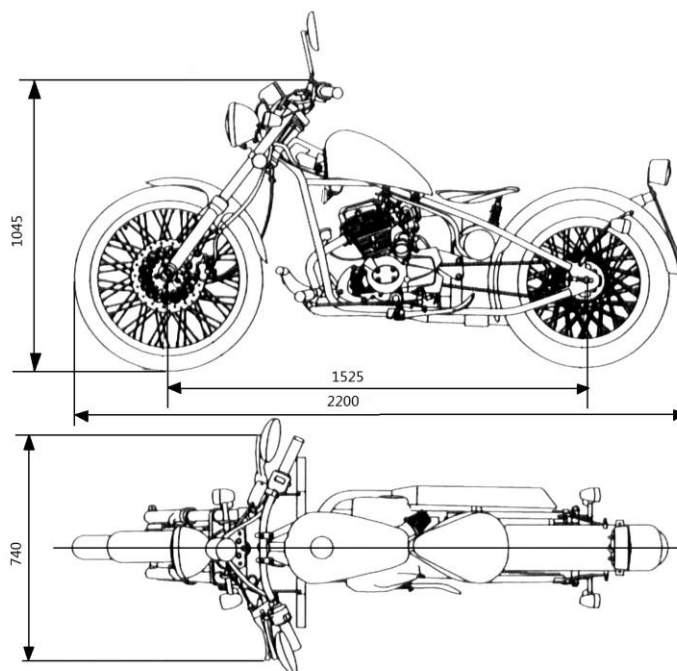




## Dimensions

|                                                  |        |
|--------------------------------------------------|--------|
| Length.....                                      | 2200mm |
| Width.....                                       | 740mm  |
| Height.....                                      | 1045mm |
| Wheelbase.....                                   | 1525mm |
| Seat height.....                                 | 680mm  |
| Ground clearance.....                            | 120mm  |
| Curb/wet weight.....                             | 132kg  |
| Max capacity (not including vehicle weight)..... | 145kg  |



## Chassis

|                          |                                                                                                      |
|--------------------------|------------------------------------------------------------------------------------------------------|
| Seat.....                | Sprung rider solo seat                                                                               |
| Foot rests .....         | CNC billet knurled aluminum                                                                          |
| Foot controls            | Chrome steel on roller bearings                                                                      |
| Frame type.....          | Tubular backbone, double cradle<br>True hard tail with seat suspension<br>DOM high carbon steel      |
| Rake.....                | 30 degree                                                                                            |
| Fork clamps top.....     | Cast aluminum                                                                                        |
| Fork clamp bottom.....   | Forged steel                                                                                         |
| Handle bar.....          | 7/8" Tubular steel                                                                                   |
| Handle bar clamp.....    | Cast aluminum                                                                                        |
| Stem bearings.....       | Tapered needle caged bearings<br>25mm x 47mm x 15mm                                                  |
| Front suspension.....    | 37mm standard forks<br>Hydraulic damping                                                             |
| Rear suspension.....     | Seat travel with shocks 32mm<br>Seat travel with springs 63mm                                        |
| Front wheel travel.....  | 110mm                                                                                                |
| Front wheel.....         | 2.15" x 21" steel<br>40 chromed steel spokes                                                         |
| Front tire.....          | CST 90/90-21 54H<br>Tube type<br>Max. load 467 lbs @40 PSI<br>Max. load 212 Kg. @40 PSI              |
| Tire pressure front..... | 195kPa (28.3psi)                                                                                     |
| Front axle diameter..... | 12mm                                                                                                 |
| Rear wheel.....          | 3.5" x 18" steel<br>72 chromed spokes                                                                |
| Rear tire.....           | CST 140/70-18 67H<br>Tube type<br>Max. load 675 lbs @40 PSI<br>Max. load 307 Kg. @40PSI              |
| Tire pressure rear.....  | 265kPa (38psi)                                                                                       |
| Rear axle diameter.....  | 15mm                                                                                                 |
| Front brake.....         | Single 290mm rotor<br>2 piston slide caliper<br>Braided and bonded DOT stainless steel brake<br>hose |
| Rear brake.....          | 240mm rotor<br>2 piston slide caliper<br>Braided and bonded DOT stainless steel brake<br>hose        |
| Batery box.....          | Chromed plated steel                                                                                 |
| Electrical box.....      | Steel, chrome plated covers                                                                          |

## Engine

|                                  |                                                                                      |
|----------------------------------|--------------------------------------------------------------------------------------|
| Type.....                        | CCW250<br>OHV single cylinder four stroke push rod<br>Air cooled<br>Counter balanced |
| Bore.....                        | 67.0mm                                                                               |
| Stroke.....                      | 65.0mm                                                                               |
| Displacement.....                | 229.0cc                                                                              |
| Compression ratio.....           | 9.2:1                                                                                |
| Maximum power.....               | 11.5 kW /15.4 HP @7000RPM                                                            |
| Maximum torque.....              | 16.0 N·m @6000RPM                                                                    |
| Maximum speed.....               | 8500RPM                                                                              |
| Idle speed.....                  | 1500RPM                                                                              |
| Minimum fuel consumption.....    | ≤354g/kW·h                                                                           |
| Starting.....                    | Electric and kick                                                                    |
| Ignition type.....               | CDI                                                                                  |
| Ignition advance .....           | 15° @1500RPM                                                                         |
| Spark plug .....                 | DR8EA, D8TC                                                                          |
| Spark plug gap.....              | 0.6-0.8mm                                                                            |
| Intake valve open (BTDC).....    | 10°                                                                                  |
| Exhaust valve open (BBDC).....   | 40°                                                                                  |
| Intake valve closed (ABDC).....  | 40°                                                                                  |
| Exhaust valve closed (ATDC)..... | 10°                                                                                  |
| Intake valve clearance.....      | 0.08mm                                                                               |
| Exhaust valve clearance.....     | 0.13mm                                                                               |
| Clutch.....                      | Wet multi-plate                                                                      |
| Transmission.....                | Constant mesh, five-speed                                                            |
| Primary Reduction 21/70.....     | 3.333                                                                                |
| First gear ratio 11/32.....      | 2.909                                                                                |
| Second gear ratio 15/28.....     | 1.867                                                                                |
| Third gear ratio 19/25.....      | 1.316                                                                                |
| Fourth gear ratio 23/23.....     | 1.000                                                                                |
| Fifth gear ratio 24/20.....      | 0.833                                                                                |
| Final drive.....                 | 428 roller chain                                                                     |
| Front sprocket.....              | 15T                                                                                  |
| Rear sprocket.....               | 41T                                                                                  |
| Fuel.....                        | Unleaded gasoline                                                                    |
| Minimum fuel octane.....         | 86 (R+M/2)                                                                           |
| Carburetor model.....            | PZ30 with accellerator pump                                                          |
| Air filter.....                  | Stainless steel mesh                                                                 |
| Exhaust emission sytem.....      | 3 x three way catalyst in muffler<br>PAIR air injection                              |
| Engine lubrication.....          | Pressure-splashed                                                                    |
| Oil Pump Type.....               | Inner/outer rotor                                                                    |

## Electrical

|                                   |                                                                 |
|-----------------------------------|-----------------------------------------------------------------|
| Battery.....                      | 12N9-4B-1                                                       |
| Battery capacity.....             | 12V /9 Amp/hour                                                 |
| Generator.....                    | Three-phase A.C. generator                                      |
| Generator output.....             | 160 watts.                                                      |
| Main fuse.....                    | 15A                                                             |
| Headlight.....                    | P2 35/35W<br>High/low/passing                                   |
| Brake/tail light.....             | 12V 21/5W                                                       |
| Speedometer.....                  | Cable driven<br>Alalog needle<br>Mechanical odometer/trip meter |
| Emergency lighting.....           | Four way flasher                                                |
| Side stand safety switch.....     | Stops engine if driven with side stand down                     |
| Turn signal light .....           | 12V 21W                                                         |
| Neutral indicator light.....      | 12V 1.7W                                                        |
| High beam indicator light.....    | 12V 1.7W                                                        |
| Turn signal indicator lights..... | 12V 1.7W                                                        |

## Capacities

|                                           |                                                              |
|-------------------------------------------|--------------------------------------------------------------|
| Fuel tank capacity including reserve..... | 8L / 2.1 gallon                                              |
| Engine oil capacity.....                  | 1200ml                                                       |
| Engine oil.....                           | SAE10W-40, 15W-50, 20W-50<br>API SF/SG or SH/SJ with JASO MA |
| Fork oil capacity.....                    | 275cc<br>10wt fork oil                                       |

## Fastener torque

|                                               |                                 |
|-----------------------------------------------|---------------------------------|
| Front axle .....                              | 65N-m                           |
| Rear axle.....                                | 65N-m                           |
| Swing arm pivot nut.....                      | 65N-m                           |
| Engine mount bolts M8 x 1.25.....             | 23N-m                           |
| Steering stem top nut.....                    | 65 N-m                          |
| Steering stem bearing adjust nut.....         | 45 N·m then turn back 1/4 – 1/2 |
| Fork clamp bolts M8 x 1.25.....               | 23N-m                           |
| Front axle pinch bolts M6 x 1.0.....          | 11N-m                           |
| Spark plug.....                               | 18N-m                           |
| Valve clearance adjusting screw lock-nut..... | 15N-m                           |
| Cylinder head nut.....                        | 37N-m                           |
| Rear sprocket nut M8 x 1.25.....              | 23N-m                           |
| Engine side cover bolts M6 x 1.0.....         | 11N-m                           |

## Shift schedule

Smooth operation and best fuel economy can be achieved by using this suggested shift schedule.

| Shifting up schedule                                         |                 |
|--------------------------------------------------------------|-----------------|
| From 1st into 2nd                                            | 12mph (20km/h)  |
| From 2nd into 3rd                                            | 19mph (30km/h)  |
| From 3rd into 4th                                            | 25mph (40 km/h) |
| From 4th into 5th                                            | 31mph (50km/h)  |
|                                                              |                 |
| Shifting down schedule                                       |                 |
| From 5th to 4th                                              | 31mph (50km/h)  |
| From 4th to 3rd                                              | 25mph (40km/h)  |
| From 3rd to 2nd                                              | 19mph (30km/h)  |
| From 2nd to 1st                                              | 12mph (20km/h)  |
| Disengage clutch when engine speeds drop below 6mph (10km/h) |                 |

