

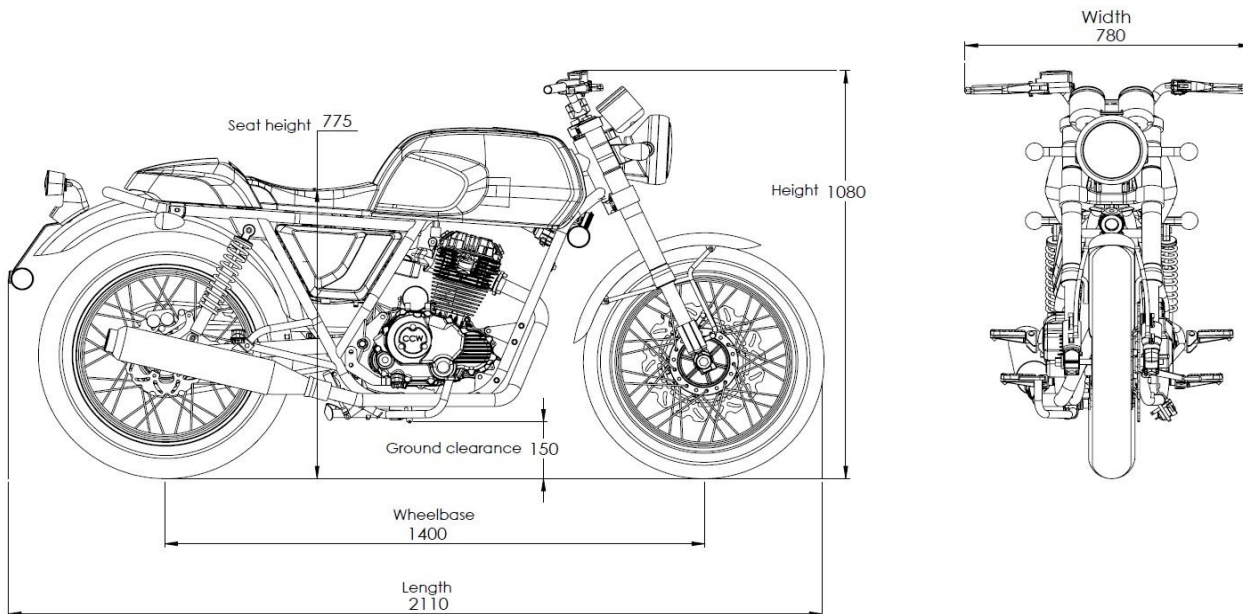


Cleveland CycleWerks Misfit 250 Model 2016 Specifications



Dimensions

Length.....	2110mm
Width.....	780mm
Height.....	1080mm
Wheelbase.....	1400mm
Seat height.....	775mm
Ground clearance.....	150mm
Curb/wet weight.....	144kg
Max capacity (not including vehicle weight).....	145kg



Chassis

Seat.....	Rider/pillion seat with pillion strap Removable pillion seat cover
Foot rests	Spring loaded rider foot rests Folding pillion foot rests
Frame type.....	Tubular backbone, double cradle High carbon steel
Rake.....	25 degree
Trail.....	114mm
Swingarm.....	Large diameter tubular arms. Needle roller axial bearings Needle roller side thrust bearings
Fork clamps.....	Billet CNC aluminum
Handle bar.....	7/8" Tubular
Handle bar clamp.....	Billet CNC aluminum
Stem bearings.....	Tapered needle caged bearings 25mm x 47mm x 15mm
Front suspension.....	Inverted forks, 38mm stancions Cartidge type damping Shim stack valving for rebound and compression
Rear suspension.....	Twin coil over oil damped shocks 325mm length eye to eye Spring pre load adjustable 5 stage
Rear wheel travel.....	90mm
Front wheel travel.....	110mm
Front wheel.....	2.50" x 18"
Front tire.....	Kingstone 100/90-H18 tube type 6P.R. 62P Max. load 583 lbs @40 PSI Max. load 265 Kg. @40 PSI
Tire pressure front.....	40PSI/280KPa
Front axle diameter.....	15mm
Rear wheel.....	2.75" x 18" Full floating cush sprocket carrier
Rear tire.....	Kingstone 120/90-H18 tube type 6P.R. 71M Max. load 759 lbs @40 PSI Max. load 345 Kg. @40PSI
Tire pressure rear.....	40PSI/280KPa
Rear axle diameter.....	17mm
Front brake.....	Single 315mm full floating wave rotor 4 piston radial mount caliper Braided and bonded DOT stainless steel brake line
Rear brake.....	220mm wave rotor 2 piston slide caliper Braided and bonded DOT stainless steel brake line

Engine

Type.....	CCWCBB250 OHC single cylinder four stroke Air cooled Counter balanced
Bore.....	65.5mm
Stroke.....	66.2mm
Displacement.....	223.0cc
Compression ratio.....	9.25:1
Maximum power.....	12 kw@7500RPM
Maximum torque.....	18 Nm @5500RPM
Maximum speed.....	9000RPM
Idle speed.....	1500RPM
Minimum fuel consumption.....	≤354g/kW·h
Starting.....	Electric and kick
Ignition type.....	CDI
Ignition advance	15° @1500RPM
Spark plug	D8EA
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.....	0.05mm
Exhaust valve clearance.....	0.08mm
Clutch.....	Wet multi-plate
Transmission.....	Constant mesh, five-speed
Primary Reduction.....	3.333
First gear ratio.....	2.909
Second gear ratio.....	1.867
Third gear ratio.....	1.389
Fourth gear ratio.....	1.150
Fifth gear ratio.....	0.955
Final drive.....	520 roller chain
Front sprocket.....	13T
Rear sprocket.....	36T
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 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
Secondary fuse.....	15A
Headlight.....	H4 35/35W High/low/passing
Brake/Tail light.....	12V 21/5W
Speedometer.....	Cable driven Electronic stepper motor needle LCD odometer/trip meter
Tachometer.....	Electronic stepper motor needle
Emergency lighting.....	Four way flasher
Side stand safety switch.....	Stops engine if driven with side stand
Turn signal light	12V 21W
License plate light	12V 5W
Neutral indicator light.....	12V LED
High beam indicator light.....	12V LED
Turn signal indicator lights.....	12V LED

Capacities

Fuel tank capacity including reserve.....	12L
Engine oil capacity.....	1200ml
Engine oil.....	SAE10W-40, 15W-50, 20W-50 API SF/SG or SH/SJ with JASO MA
Fork oil capacity.....	275cc 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

Maintenance

Please use the below guide as reference to the maintenance schedule mileage chart:

I = Inspect and clean, adjust, lubricate, or replace as necessary. Replace more frequently under extreme conditions, heavy use, or in wet or dusty environment.

C = Clean

R = Replace

L = Lubricate

A= Adjust

INSPECTION AND MAINTENANCE SCHEDULE

Item	300 Mile / 500 KM First Service	Every 1800 Miles / 3000 KM	Every 3600 Miles / 6000 KM	Every 5400 Miles / 9000 KM
Fuel Lines *		I	I	R
Fuel Filter *	C	C	R	I
Air Cleaner *	C	C	C	R
PCV Valve *	I	R	R	R
EVAP Control System *	I	I	I	I
Secondary Air Supply System *	I	I	I	I
Throttle Operation *	I	I	I	I
Spark Plug *	I	I	R	I
Valve Clearance *	A	I/A	I/A	I/A
Engine Oil *	R	R	R	R
Oil Filter Screen *	C	C	C	C
Centrifugal Oil Filter *				C
Carburetor Idle Speed *	I	I	I	I
Carburetor Choke *	I	I	I	I
Drive Chain *	I/L	I/L	I/L	I/L
Battery *	I	I	I	I
Brake Pad/ Disc Wear	I	I	I	I
Brake Fluid *	I	I	R	I
Electric Components / Side Stand Switch	I	I	I	I
Lighting System *	I	I	I	I
Bolts, Nuts, Fasteners *	I	I	I	I
Wheels / Spokes	I	I	I	I
Fuel Tank Cap And Gasket *	I	I	I	I
Tire Wear *	I	I	I	I/R
Steering Head Bearings *	I	I	A	I
Suspension *		L	I	
Clutch System *	I	I	I	I

Maximum engine speeds

First 150 miles/250km..... <5000RPM
At 300miles/500km..... <7500RPM
After 500miles/700km..... <9000RPM

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)	