

Model: Toyota Innova Crysta 2021
Type of chassis: Body on frame chassis
Fuel: Diesel
Drive: Rear Wheel Drive

Chassis Number: MBJAA3EM20075696200416
Coolant used: $\frac{1}{2}$ water + $\frac{1}{2}$ Ethylene Glycol
Lubrication System: Wet sump

Fuel Supply System: CRDi
Valve Configuration: DOHC
Engine type: 2.4L Diesel



REAR VIEW OF CAR



FRONT VIEW OF CAR



SIDE VIEW OF CAR

Fuel Capacity: 55 litres.
Engine: 2400cc diesel engine
Transmission: Manual
Emission Norm: BS VI 2.0

Body type: MUV
Seating Capacity: 8
Max power: 148bhp@3400rpm
Cylinders: 4, Inline

Fuel Supply System: Dual VVT-i
Suspension: Double wishbone
with coil spring
Mileage - 10-12kmpl



Bike: Hero Honda Splendor plus

This bike is powered by 97.2cc BS6 Engine which develops a power of 7.71 bhp and a torque of 8.05 Nm. With both front and rear drum brakes, this bike comes up with combined braking for both the wheels. This bike weighs 112 kg and has a fuel tank capacity of 7.8 litres

INTRODUCTION



Carburettor
Cylinder
Engine choke

Type: It typically comes with a 97.2cc engine, although different models may have variations

Combustion process: The engine follows the four stroke cycle, i.e., intake, compression, power and exhaust.

Intake → Air fuel mixture drawn into cylinder

Compression → Compresses the mixture

Power → spark plug ignites

Exhaust → Expels the byproducts

Ignition System: The engine uses a capacitor discharge ignition similar to electronic ignition system to precisely time the spark, ensuring efficient combustion

Cooling system: This bike uses air cooling system. Cooling fins on the engine help in dissipating heat during combustion

Transmission: The engine is mated to a multi-plate wet clutch and a constant mesh gearbox, providing smooth gear shifts

Fuel System: The bike uses a carburettor to mix air and fuel before it enters the combustion chamber.

Power Output: The power generated by the engine is transmitted to rear wheel through chain drive system.

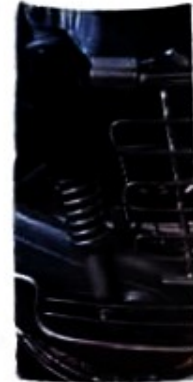


spark plug
Brake
kick rod



Wheel/Tyre

Alloy/spoke wheels, is designed for grip, durability, fuel efficiency, tire tread pattern provides balanced grip, durability. Regular maintenance involves checking pressure



Front suspension: shock absorber in front

Rear suspension: shock absorber at back

Spring type: coil/hydraulic suspension

* not adjustable.

Maintenance: checking any leaks in suspension system, ensuring proper lubrication

The vehicle identification number is 03J 20C43 252.

COLLEGE OF ENGINEERING, HYDERABAD - 500 031 (An Autonomous)

TITLE:

NAME: G. Pranav

CLASS:

BRANCH: ECE

SCALE:

ROLL No.: 1602-21-735-117

DATE:

SHEET No: