



pulsar
NS200

Owner's Manual



LOVED IN **100**
COUNTRIES



FOREWORD



Welcome to the Pulsar family!

You are now the proud owner of the next generation Pulsar. It is a superb combination of performance, superior technology and evocative styling. This makes the Pulsar you ride, unbeatable and unchallenged on the road.

Before you ride out, please read this User's Guide carefully and familiarize yourself with the operating mechanism. This will ensure you a safe and trouble free ownership experience.

To keep Your bike in perfect running condition and deliver consistent performance, we earnestly advise you to avail periodic services at any of our DPMC Workshops or Service dealers, who are well equipped with all necessary facilities / genuine parts / oil and trained manpower to ensure the best care for your Pulsar.

Should you require any additional information, please approach DPMC Workshops or Service dealers, with relevant detail like Registration no. Chassis no, Engine no, Date of purchase, Kms. run, name of selling Distributor and your contact numbers.

Finally, may we request you to give your motorcycle proper care and regular maintenance, as described in this manual. We are sure it will offer you a long trouble-free ownership experience.

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Safety and Warning information :

Warning :



This indicates that a potential hazard or injury to you or other persons & to the vehicle can happen if advice provided is not followed.

Caution :



This indicates that a potential hazard that could result in vehicle damage. Follow the Advice provided with the caution.

Notice:

The description and illustration in this booklet are not to be taken as binding on the manufacturers. The essential features of the type described and illustrated herein remaining unaltered. Bajaj Auto Limited reserves the right to carry out at any moment without being obliged to bring this booklet upto-date & to do modifications on the vehicle, parts or accessories as may be convenient and necessary.

TECHNICAL SPECIFICATIONS



Parameter	Pulsar NS 200
Engine	4 Stroke, Single Cylinder
Bore x Stroke	72 mm x 49 mm
Engine Displacement	199.4 cc
Compression Ratio	11 ± 0.5 : 1
Idling Speed	1500 ± 100 RPM
Max. Net Power	24.5 PS at 9750 RPM
Max. Net Torque	18.74 Nm at 8000 RPM
Ignition System	DC
Fuel System	Fuel injection System
Spark Plug	1 No.
Spark Plug Gap	0.8 ~ 0.9 mm
Lubrication	Wet sump forced Lubrication
Transmission	6 speed constant mesh
Gear shifting Pattern	1 Down 5 Up
Engine Cooling	Liquid cooled
Starting Aid	Electric starter
Front & Rear Brake	Disc Brake

Parameter	Pulsar NS 200
Fuel Tank Capacity	
Full	12 Liters (No Reserve)
Dimensions	
Length	2017 mm
Width	804 mm
Height	1075 mm
Wheel base	1363 mm
Ground Clearance	168 mm
Front Tyre Size	100/80-17,52P Tubeless
Rear Tyre Size	130/70-17,62P Tubeless
Tyre Pressure	
Front	1.75 Kg/cm ² (25 PSI)
Rear (Solo)	2 Kg/cm ² (28 PSI)
Rear (with pillion)	2.25 Kg/cm ² (32 PSI)
Electrical System	12 Volts DC
Battery	12V 8Ah VRLA
Head Lamp	LED
Tail / Stop Lamp	LED

TECHNICAL SPECIFICATIONS / IDENTIFICATION DATA



Parameter		Pulsar NS 200
Position Lamp		LED
Side Indicator Lamp		LED
Rear No. Plate Lamp		Bulb 12V,5W
Speedometer	Neutral Indicator	LED-Green
	Hi-Beam Indicator	LED-Blue.
	Speedometer Illumination	LCD-Monochrome
	Fuel Level Indicator	LCD Bars
	Malfunction Indicator	LED-Amber
	High Engine Temp. Indicator	LED-Red
	Low Oil Pr. Indicator	LED-Red
	Turn Signal Indicator	LED-Green
	Service Reminder	LCD
	Side Stand Indicator	LCD
ABS Indicator		LED-Yellow
Horn		12V DC
Vehicle Kerb Weight		158 kg.
Vehicle Gross Weight		308 kg.

Note : • All dimensions are under UNLADEN condition.

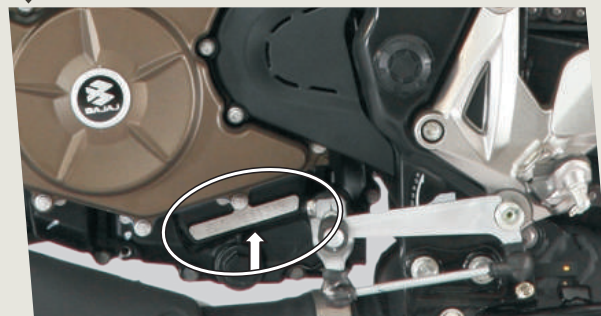
• Above information is subject to change without any notice.

The Frame and Engine serial numbers are used to register the motorcycle. They are the unique alpha-numeric codes to



► **Frame Number Location**
On RH Side of Steering Tube
(Alpha-Numeric - 17 Digits)

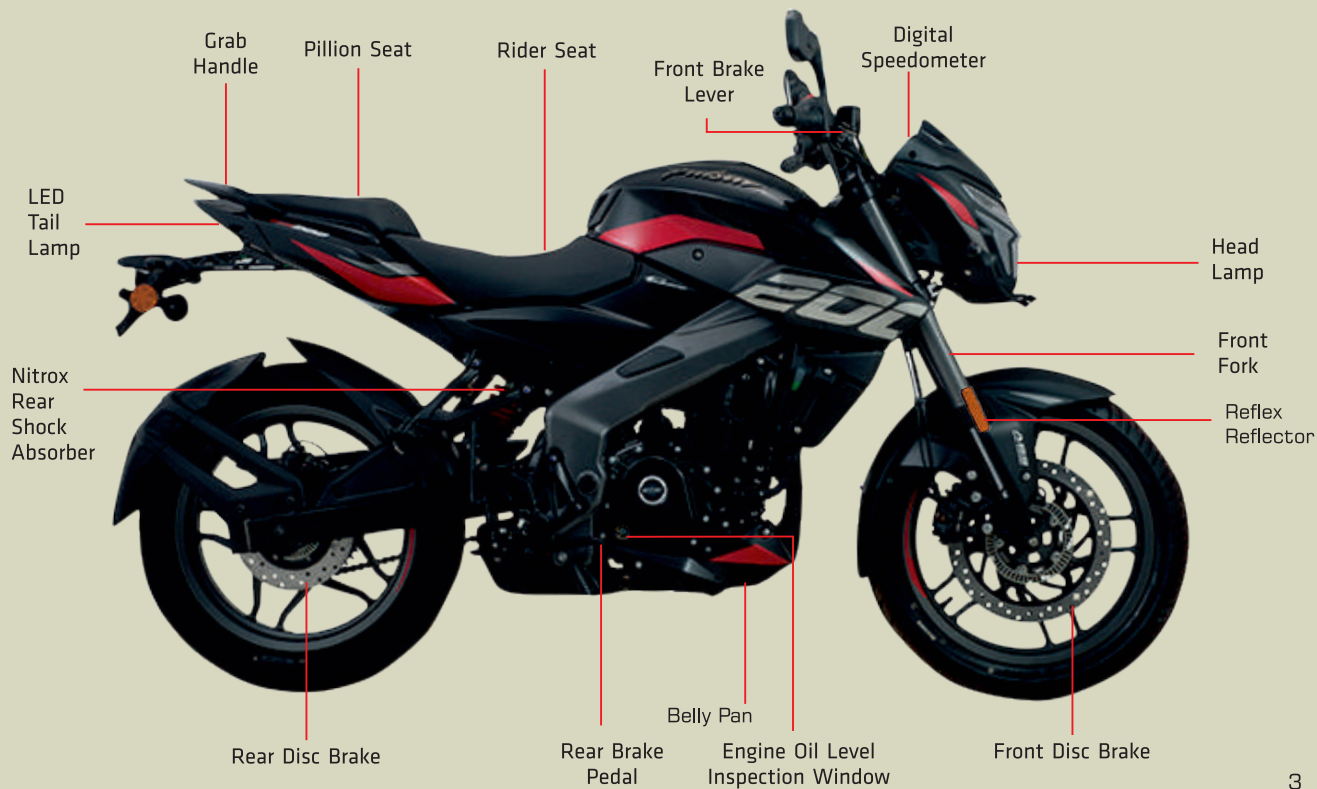
identify your particular vehicle from others of the same model and type.



Engine Number Location
On LH Side Crankcase Near Gear
Change Lever (Alpha-Numeric - 11 Digits)

LOCATION OF PARTS

pulsar
NE200



STEERING CUM IGNITION LOCK



Steering cum Ignition Lock :

It has three positions.



● **LOCK:** Steering locked. Ignition OFF.



OFF: Steering unlock. Ignition OFF.



ON: Steering unlock. Ignition ON.

To Lock the Steering : To lock the steering, turn the handle bar to the left side. Turn the handle bar to the left or right. Push & Rotate the key to “LOCK” position & remove the key.

Steering locking on handle position left hand side only.

To Unlock the Steering : Insert the key in steering cum ignition lock. Push & Rotate it clockwise to “OFF” or “ON” position.

Key : A common key is used for ‘Steering cum Ignition lock’, ‘Fuel tank cap’ & ‘Rear Seat’.

“Cranking ON and OFF duration” control –

- During Engine crank cycle cranking is allowed only for fixed duration and in between successive cranks (in case engine does not start) here is a cooling off period.
- Cranking on-off duration control feature to avoid battery discharge-
 - 1st Crank ON (5 sec) & Disable for 2 sec.
 - 2nd Crank ON (5 sec) & Disable for 2 sec.
 - 3rd Crank ON (5 sec) & Disable for 10 sec.

After a gap of 10 sec cranking cycle continues.

- **Starter disabled if side stand down** – With side stand down condition and vehicle in gear, Engine cranking is disabled through ECU.
- **Headlight control on rpm** – Headlamp will be turned ON only at Engine running condition.

FUEL TANK CAP / INSTRUMENT CLUSTER DETAILS



Fuel Tank Cap

Fuel Tank Cap

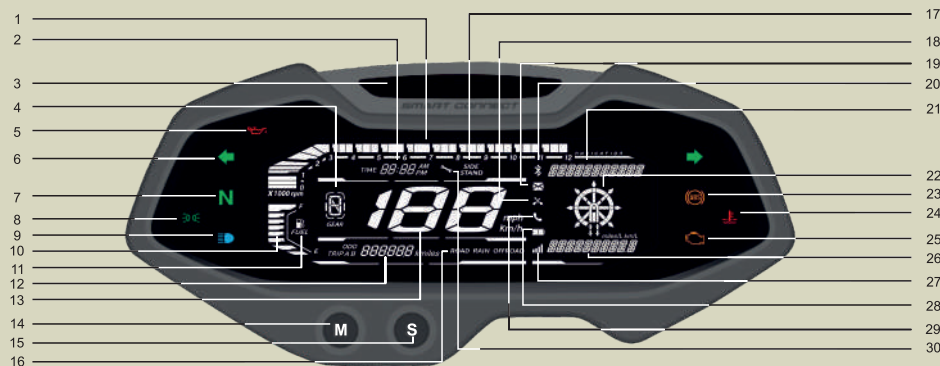
- To open the fuel tank cap, open the flap. Insert the key in the lock and turn it clockwise and lift fuel tank cap.
- To lock the 'Fuel Tank Cap' insert the key in the lock and turn it clockwise and press fuel tank cap. 'Click' sound ensures cap is fully locked.

Precaution : Dont attach metallic 'Key chain' as it may damage paint of petrol tank cover.

- There is no fuel cock.
- Always maintain minimum 3 Liter Petrol in fuel tank.
- Do not use adulterated fuel or fuel additives as it will result in rusting & clogging of Injector, Fuel pump module & catalytic Converter.

⚠ Caution

- In case petrol is spilled out on petrol tank, It is to be immediately cleaned with clean soft cotton cloth to prevent permanent stain on petrol tank.



INSTRUMENT CLUSTER DETAILS



Speedometer display will work when Ignition switch is in 'ON' position and Kill switch in "ON" position.

1. Tachometer Dial: It shows engine speed in rpm.

2. Digital Clock: It indicates time in HH:MM (AM/PM).

3. Multi Information light: It informs the rider about various notifications as given below.

Y **Red light:** It glows when warning messages are available in multi information display.

Y **Blue light:** It glows when bluetooth is available for pairing.

Y **Green light:** It glows when incoming call notification alert, call is being received

Y **Red + Green light:** Red and Green light will glow simultaneously in sync & rpm bar will blink if rpm is more than 9000.

4. Gear Indication (@): It will display gear position from 1 to 5. It will display N when vehicle is in neutral position.

5. Low Oil Pressure Indicator (): It glows when engine oil pressure is low.

6. Turn Signal Indicator (): When Turn signal switch is pushed to Left or Right, Turn Signal Indicator - LH or RH will flash.

7. Neutral Indicator (N): When the transmission is in Neutral, Neutral indicator will glow.

8. Position lamp Indicator (): It Indicates Position lamp indicator is ON.

9. High Beam Indicator (): It glows when Headlight is ON & High beam is selected with engine running or Pass beam is selected.

10.Fuel Level Indicator: It shows available fuel in fuel tank.

11.Low Fuel Level Indicator: () It blinks incase of low fuel level (1 bar or less).

12.Odometer/ Tripmeter: The odometer shows the total distance that the vehicle has covered. Odometer cannot be reset to 'Zero'.

Trip A & Trip B shows the distance traveled since it was last reset to zero.

13.Speedometer: Vehicle speed will be displayed in digital form in km/h.

14.Mode Button: Mode button used for toggling between different modes e.g. ODO, Trip A, Trip B, DTE, service reminder and clock setting.

15.Set Button: Set button used to reset Trip A, AFE A, Trip B, AFE B, clock setting, service reminder.

16.Ride Modes: ABS & EMS ride modes namely Road, Rain and OFF-Road are provided with best optimized ABS intrusion suitable under each mode.

Ride Mode Selection is done in Multi Information Display.

INSTRUMENT CLUSTER DETAILS



- In Main menu, select Vehicle info by using up/ down buttons of control switch LH & upon selection, press Set button for less than 1sec to enter Vehicle info.

- Vehicle info section contains 3 sections:

17.Side Stand Indicator: It gets displayed when side stand is down.

Side Stand Condition	Gear position	Remark
Down	Engine in neutral gear position	Self-start / kick start possible
	Shifting gear from 'N' to 1st gear in engine start condition by pressing clutch lever	Engine will get cut off
Down	Engine in gear position	Engine will not start by self-start / kick start.

18. Missed Call Alert: If your smartphone is paired with the instrument cluster of the vehicle via bluetooth, then you will get the missed call alerts on the instrument cluster.

19.Message Alert: If your smartphone is paired with the instrument cluster of your vehicle via bluetooth, then you will get all the message alert on the instrument cluster. Incoming message alert icon will blink for 6 seconds. Post 6 seconds, message alert icon will displayed steady "ON".

If ignition key is turned "OFF" and then "ON" text message indication will disappear until a new message is received.

20. Bluetooth icon on Instrument cluster: It displays status of your smartphone pairing with your vehicle.

When ignition key turned "ON" bluetooth icon will blink for 10 seconds. Post that bluetooth icon will disappear, but will be active in background for pairing with smartphone.

Bluetooth icon steady: Paired with smartphone.

21.Top Multi Information Display: It displays following information:

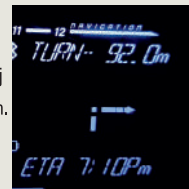
- Warnings
- Turn by Turn details

22.Turn by Turn (TBT) Navigation Display:

The LCD has Turn by Turn navigation segments for navigation. By default navigation is "OFF". To use navigation, your smartphone is to be paired with the instrument cluster of your vehicle via bluetooth.

Default: OFF

Navigation can be turned "ON" from "Bajaj Ride Connect" App by entering destination. Based on turn, respective segments will be ON & rest will be turned OFF.



INSTRUMENT CLUSTER DETAILS



Top & Bottom Multi Information display will show following information's while using TBT navigation:

- "NO GPS" when smartphone GPS signal is not available.
- "REROUTING" when application is rerouting navigation, "DESTINATION" in top & "REACHED" in bottom multi information display when vehicle reached the desired location.
- Bottom multi information display will toggle between "ETA" and "ETD".
- Top multi information display will show "TURN-XXXX" if any turn is ahead, "XXXX" if vehicle needs to go on straight and "UTURN-XXXX" if a uturn is ahead.

Note: Map will be available for 7 years only.

23.ABS Indicator (): With Ignition switch ON the ABS indicator glows. When vehicle speed is more than 5 Km/h the ABS indicator goes off, if this indicator glows while vehicle is running, it means there is problem in ABS.

24.Coolant Temperature Indicator: It glows when engine coolant temperature is more than 110°C.

25. Malfunction Indicator (): It glows whenever any abnormality is noticed in functioning of FI system related components.

26.Bottom Multi Information Display: It displays various information, such as IFE, DTE, AFE for Trip A or Trip B, Caller's name/ mobile number during call, Estimated time of arrival (ETA), Estimated travel distance (ETD), etc.

27.Smartphone Network Range: It will display network of your smartphone on instrument cluster of your vehicle when connected via bluetooth.

28. Smartphone Battery level: If your smartphone is paired with the instrument cluster of the vehicle via bluetooth, then it will display battery level of your smartphone on instrument cluster.

29. Incoming Call Alert: This symbol will become active and displayed blinking when there is incoming call and displayed steady "ON" only when call is received (If your smartphone is paired with the instrument cluster of the vehicle via bluetooth). While receiving a call, caller's name/ mobile number will be displayed at multi-information display area. Call accept/reject with the help of Call button on control switch LH.

30. Service Reminder (): 'Wrench' symbol glows when ODO meter reading reaches to set Kms. It indicates vehicle is due for periodic service.

INSTRUMENT CLUSTER DETAILS - ODO & IFE



Instrument Cluster automatic brightness adjustment:

Instrument cluster shall adjust brightness intensity based on headlamp switch position.

● : Headlamp OFF, DRL 'ON' with High Intensity
Instrument cluster brightness intensity "HIGH"

☀ : Headlamp ON, DRL 'ON' with Low Intensity
Instrument cluster brightness intensity "LOW"

Note :

After switching 'ON' the ignition switch, the following indications will remain 'ON' till engine is started.

- Malfunction Indicator
- Low Oil Pressure Indicator
- ABS Indicator
- Coolant Temperature Indicator

Instructions :

Incase Coolant temperature indicator, Malfunction indicator, Low oil pressure indicator, ABS indicator gets ON during vehicle running, bring the vehicle nearest DPMC Workshops or Service dealers for inspection / repair.



Condition

Ignition switch is ON & Mode push button not pressed, following display will be shown by digital instrument cluster:

1. **ODO:** The Odometer shows the total distance that the vehicle has travelled.
2. **IFE (Instantaneous Fuel economy):** This will indicate fuel economy in km/L. at any given time. Value will be displayed only when vehicle speed & Engine RPM is more than zero.

If vehicle speed is zero then IFE will be displayed "--km/L"

Note:

IFE (Instantaneous fuel economy) / AFE (Average fuel economy) / DTE (Distance to empty) readings are indicative & may vary due to driving and road conditions.

INSTRUMENT CLUSTER DETAILS - AFE A,TRIP A & AFE B, TRIP B



Procedure to set AFE A & TRIP A:

Ignition switch is ON & Mode push button pressed for less than 1sec.- TRIP A mode get selected. In Trip A mode - AFE A gets displayed.

1. **TRIP A:** The Trip meter shows the total distance that the vehicle has travelled in TRIP A mode. If TRIP A is reset, average fuel economy (AFE A) will reset.
2. **AFE A (Average Fuel economy A):** This will indicate the average fuel economy in km/L in TRIP A mode.

Procedure to set AFE B & TRIP B:

Ignition switch is ON & Mode push button pressed for less than 1sec.- TRIP B mode get selected. In Trip B mode - AFE B gets displayed.

3. **TRIP B:** The Trip meter shows the total distance that the vehicle has travelled in TRIP B mode. If TRIP B is reset, average fuel economy (AFE B) will reset.
4. **AFE B (Average Fuel economy B):** This will indicate the average fuel economy in km/L. in TRIP B mode.

Note: AFE will be updated every 60 sec. AFE will be reset if corresponding TRIP A or TRIP B is reset or battery disconnected.

INSTRUMENT CLUSTER DETAILS - DTE & TRIP



DTE (Distance to empty):

It indicates the estimated distance that the vehicle can travel under current fuel economy & fuel level condition.

DTE calculation is independent of TRIP and based on AFE for distance covered for last 25 Kms.

Max count of DTE is 990 Km. instrument cluster will display values in multiple of 10.



Note:

IFE and DTE are displayed at "Bottom multi information display". When IFE is displayed, press Set button for more than 3 second - DTE gets displayed in place of IFE

TRIP Setting:

If Set button is pressed more than 3 sec. in TRIP A or TRIP B mode, then respective AFE & trip distance will reset to Zero while DTE will continue to show earlier value.

Note:

After completion of max value of 999.9 Km, selected trip display will get freezed and will not get set automatically to zero.

However instrument cluster will continue to calculate and display AFE value.

Note:

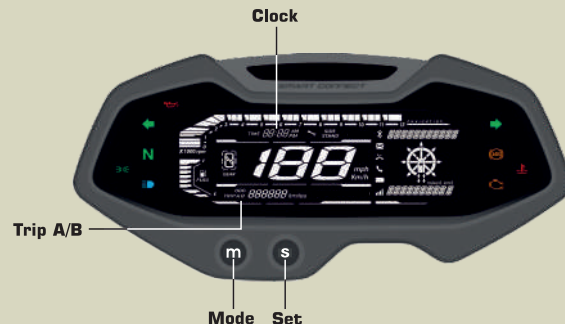
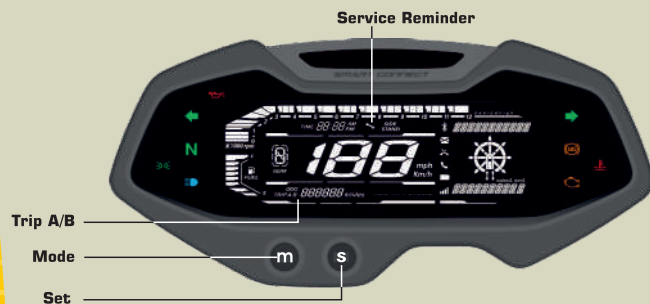
If vehicle is driven by ignoring fuel level display & Tank symbol () blinking after reaching fuel unutilized level DTE will be shown as '--' Km.

During Petrol Refilling:

If petrol filled is more than 1 Liter then DTE will be calculated based on the revised fuel volume.

If petrol filled less than 1 Liter then there will be no change in DTE value.

INSTRUMENT CLUSTER SETTING



1. Trip Meter Reset:

Mode & Set push button is provided for selecting & resetting "ODO/ TRIP A/ TRIP B".

- Press Mode button for less than 1 sec. Mode changes from "ODO/ TRIP A/ TRIP B".
- Press Set push button for more than 3 sec. Selected TRIP A/ TRIP B' will reset. Other TRIP mode will continue updating.

3. Clock Reset:

- Digital clock indicates time in HH & MM separated by colon. It is 12 hour clock.
- For entering clock setting mode - press Mode, go to "ENTER SETTINGS" --> "SET-CLOCK" & press "Mode & SET" button for more than 3 sec.

Press Mode & Set button together for more than 3 sec	HH digits starts blinking.
Press Mode button for less than 1 sec.	Hour digits will increase.
Press Set button for less than 1 sec.	HH value will be stored while MM starts blinking.
Press Mode button for less than 1 sec.	Minute digits will increase.
Press Set button for less than 1 sec.	Minutes value will be stored. AM & PM starts blinking
Press Mode button for 1 sec.	Select AM/ PM.
Press Mode & Set button for more than 3 sec.	All blinking stops and clock show the selected value of HH:MM AM/PM.
Clock set mode is selected & no ending is carried out for more than 5 sec.	Auto exit without saving set value. If engine / vehicle rpm is given then system will exit from clock set mode without saving set value.

BAJAJ RIDE CONNECT



Bajaj Ride Connect Application:

“Bajaj Ride Connect” Application is based on bluetooth connectivity with the instrument cluster. This app offers a range of features, including vehicle management, service booking, document storage and more. With seamless bluetooth connectivity to Pulsar, the app ensures a personalized and convenient riding experience for every register user.

Key features of the application:

Bluetooth: once connected to the vehicle through the application user can access below bluetooth features:

- Call Accept/ reject with the help of Mode button on control switch LH.
- Smartphone battery level.
- Smartphone network range.
- Missed call.
- Message.

Document storage: Important vehicle related documents, such as insurance paper and registration certificates, can be securely stored within the app, providing easy access whenever needed.

Reminders: Users can set reminder for vehicle maintenance, service schedules, insurance renewals and other important tasks.



BAJAJ RIDE CONNECT / CONTROL SWITCH - LH



Application download:

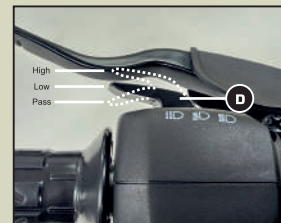
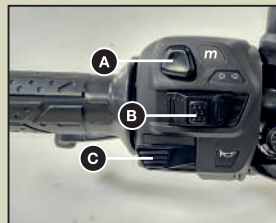
Bajaj ride connect application is available in the google play store (for android) or Apple store (for iOS).

- Y Download the "Bajaj Ride Connect" App from google play store/ Apple store.
- Y Click on "Sign up" to register in the App with your encrypted password (Key) as provided by dealer.
- Y Enter your personal details (first & last name).
- Y Enter VIN of your vehicle (VIN can also be scanned).
- Y Sign up in App
- Y Enter your Key.
- Y Login in App
- Y "Bajaj Ride Connect" App is ready to work.

Bluetooth connectivity:

Your vehicle is equipped with bluetooth connectivity feature by which you can pair your smartphone with instrument cluster of your Pulsar vehicle through "Bajaj ride connect" application.

- Y Turn the ignition switch and kill switch "ON".
- Y Login "Bajaj ride connect" application on your smartphone.
- Y For first time pairing, allow the application to access:
 - a. Device's location if GPS is not enabled in your device.
 - b. Access your phone called logs.
 - c. Send and view messages.
 - d. Notification's



A. Call Button: Call button is used for:

Call Accept/ Reject.

- Call accept: Press Call button for less than 1 sec.
- Call reject: Press Call button for more than 3 sec.

B. Turn Signal Switch: When the turn signal knob is turned to Left (↰) or Right (↱) respective indicator will start blinking, to stop blinking push the knob in & release.

C. Horn Button (🔊): Press button for sounding horn.

D. Pass Switch : Press the switch to put 'ON' Hi Beam/ Low Beam/ Pass light.

It is used to give signal to vehicles coming from opposite side while overtaking.

When headlight is ON, High or Low beam can be selected with this switch. Hi beam indicator light located on Speedo console will light up when high beam is selected.

: High Beam (🔆)

: Low beam (🔆)

CONTROL SWITCH - RH



E. Starter Button:

Starter button operates the electric starter. It is recommended to start the engine with the transmission in neutral.

Vehicle in Gear - Press clutch lever & operate starter button to start the engine.

F. Engine Kill Switch:

The engine kill switch is used for switching ON & OFF the engine.

⊗ : Engine OFF

⊙ : Engine ON

G. Light Switch: It has 2 positions. When ignition switch is 'ON' & Engine is 'ON', lighting system will work as per given table.

● : Tail lamp will get 'ON'. DRL 'ON' (High Intensity)

☀ : Head lamp, Tail lamp, Number Plate lamp & Position lamp will get 'ON'. DRL remains 'ON' (Low intensity)

Day Time Running Light Feature:

- Day Time Running light is provided inside headlamp.
- Day Time running light gets 'ON' (High intensity) when ignition switch turned to 'ON' position.
- After headlight is turned to 'ON' position with **engine running** intensity of DRL LED's will get reduced.

Ignition Switch	Light Switch	DRL	Head Light
ON	OFF	ON High Intensity	OFF
ON	ON	ON Low Intensity	ON

Mobile Charger



- Mobile charging socket has been provided on left hand side of instrument cluster flap.
- The charger socket has been provided with cap to protect charger socket from dust & water entry during washing / during rain.
- Always ensure charger cap is firmly fitted on socket when charger socket is not in use.
- The mobile charger will supply output voltage only in engine running condition.
- Customer to use suitable USB cable for mobile charging.



Caution:

Do not use mobile phone while driving. Momentary lapse in concentration might result in an accident.

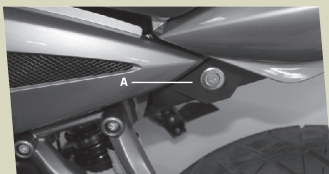
ANTILOCK BRAKING SYSTEM (ABS)



ABS System

- Dual Channel ABS System is fitted in Pulsar NS 200 BSVI vehicles .
- Dual channel ABS means ABS is fitted on front & rear wheels.
- Always maintain a safe distance between you and objects ahead. Vehicle speeds should always be reduced during extreme road conditions. The braking distance for motorcycle equipped with an anti-lock braking system may be longer than for those without it on rough road conditions. During these conditions the vehicle should be driven at reduced speeds
- When you apply Front brake / Rear brake by pressing Front brake lever / Rear brake pedal under conditions which may lock the wheels, you feel a corresponding sensation (pulsation) in Front brake lever/ Rear brake pedal. (as applicable to model) This is normal and it means ABS is active.
- ABS technology requires the rider to brake appropriately to ensure safer braking specially under acute conditions.
- Also it is recommended to use both front and rear brakes simultaneously.
- Always slow down when cornering. The anti-lock brake system cannot prevent accidents resulting from excessive speeds.
- Never drive by disconnecting wheel speedometer cable.

PILLION SEAT / TOOL KIT / RIDER SEAT / BATTERY



Removal of Pillion Seat

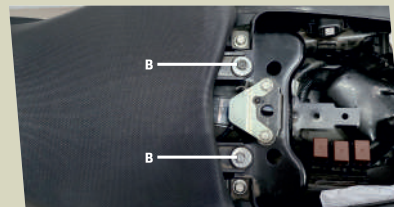
- Insert Key into lock (A)
- Turn the key clock wise.
- Lift front end of 'Rear seat'
- Pull 'Pillion seat' toward front side.
- Take out 'Pillion seat'.

Tool Kit Location

- It is located below the 'Rear seat'.
- 2 rubber straps are provided to hold the tool kit.



CAUTION : Always fit rubber strap for locking tool kit.

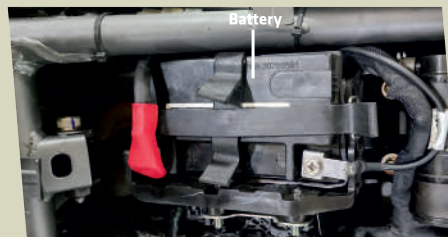


Removal of Rider Seat

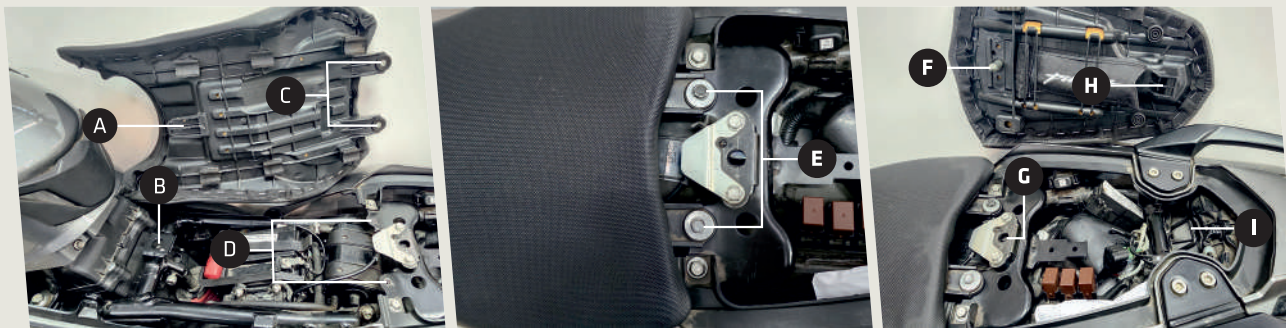
- First remove 'Pillion seat'.
- Remove 'Rider seat' mounting bolts (B).
- Pull backward rear end of 'Rider seat'.
- Take out 'Rider seat'.

Battery

- It is located below 'Rider seat'.



FITMENT OF RIDER & PILLION SEAT



Fitment of 'Rider Seat'

- Match the bracket of 'Rider seat' (A) with slot (B).
- Push 'Rider seat' toward petrol tank.
- Match 'Rider seat' rear brackets (C) with the holes (D) provided on chassis.
- Tighten the bolts (E).

Fitment of 'Pillion Seat'

- First make sure 'Rider seat' is fitted properly.
- Ensure 'Tool kit' is located properly.
- Place 'Pillion seat' on fitment location.
- Match the bracket of 'Pillion seat' (H) with Hook (I).
- Insert lock rod (F) of seat into hook (G).
- Press front portion of seat.

DAILY SAFETY CHECKS



Before riding motorcycle be sure to check following items. Please give proper importance to these checks and perform all of them before riding motorcycle.

If any irregularities are found during these checks, refer to the Maintenance chapter & see your dealer for the action required to return the motorcycle to a safe operating condition.

 **Warning:** Failure to perform these checks every day before you ride may result in serious damage or severe accident.

- Enough **fuel level** for planned distance of journey. No fuel leakage in fuel lines.
- **Engine oil** level (between upper and lower level mark)
- **Throttle cable** play of 2 ~ 3 mm. Smooth operation and positive return to closed position,
- **Brake Fluid** level above MIN mark provided on reservoir, applicable to disc brake vehicle.
- **Drive Chain** slack of 15~25mm adequately lubricated.
- Function of all **lights & horn**
- **Clutch lever** play - 2 to 3 mm
- Check **Coolant level** between MIN and MAX mark in coolant reservoir tank.

- Smooth **steering movement** without restriction.
- **Side stand** return to It's fully up position.
- **Center stand** return to it's fully up position.
- Correct **inflation pressure** in both tyres. Adequate tyre tread depth - no cracks / cuts.
- Correct **rear viewing** span adjustment of mirror.
- Cleaning cloth not to be kept in vicinity of high temperature zone e.g. Radiator, engine, silencer assy, starter motor etc.
- Cleaning cloth to be strapped along with tool kit under rear seat assy.



HOW TO RIDE YOUR BIKE



1. Starting The Engine:

- Ensure minimum 3 liters petrol is available in fuel tank.
- Turn ignition switch key to '6' position.
- Put kill switch in 'Q' position.
- Confirm that transmission is in neutral/ press the clutch lever if transmission is in gear.
- Keep throttle closed & press starter button,
- Release starter button as soon as engine starts.

"Cranking ON and OFF duration" control –

Cranking ON-OFF duration control feature to avoid battery discharge-

- 1st Crank ON (5 sec) & Disable for 2 sec.
- 2nd Crank ON (5 sec) & Disable for 2 sec.
- 3rd Crank ON (5 sec) & Disable for 10 sec. After a gap of 10 sec cranking cycle continues.

Note

- The motorcycle is equipped with a clutch switch. This switch facilitates engine starting in neutral and gear position.

Gear Position	Clutch lever position
Neutral	Released
Gear	Fully pressed

- Y Incase of battery discharged condition please bring the vehicle to Bajaj Authorized workshop for repairs.

2. Shifting Gears:

- Close throttle and press the clutch lever fully.
 - Shift into next higher or lower gear.
- Open the throttle and release the clutch lever slowly and simultaneously.



**Gear
shifting
Lever**

Gear shifting
pattern

3. Moving Off:

- Check that side stand is up.
- Press the clutch lever.
- Shift into 1st gear.
- Open the throttle and release the clutch lever slowly and simultaneously.
- As the clutch starts to engage, open the throttle a little more, giving the engine just enough rpm to keep it from stalling.

HOW TO RIDE YOUR BIKE



Recommended Speed for Shifting Down

From 6th to 5th Gear	54 km/h
From 5th to 4th Gear	45 km/h
From 4th to 3rd Gear	35 km/h
From 3rd to 2nd Gear	25 km/h
From 2nd to 1st Gear	15 km/h

Warning

When shifting down to lower gear, do not shift at such high speed that engine rpm jumps excessively. This may cause engine damage, & rear wheel may skid. Downshifting should be done at recommended speeds as shown in table above.

4. Braking:

- Close the throttle completely, leaving the clutch engaged (except where shifting gears) so that the engine braking will help slow down the motorcycle.
- Shift down one gear at a time so that you are in Neutral when you come to a complete stop.
- When stopping, always apply both brakes at the same time.

5. Stopping the Vehicle :

- Close the throttle completely.
- Shift the transmission into neutral.
- Bring the vehicle to complete stop.
- Turn the ignition switch off.

6. Parking Using Side Stand:

- Support the motorcycle on a firm level surface with the side stand.
- Lock the steering on LHS.

 **Caution:** Do not park on a soft or steeply inclined surface or the motorcycle may fall over.

HOW TO RIDE YOUR BIKE



7. Running IN

Proper running-in is important for the better life & trouble free performance of the vehicle.

- During first 2000 kms running-in period do not exceed following speed limits.

Kms	1st	2nd	3rd	4th	5th	6th
0 - 1000	10	20	30	40	50	60
1000 - 2000	20	30	40	50	60	70

- Always keep speed below the limits given in table.
- Do not REV the engine excessively.
- Do not start moving or REV the engine immediately after starting. Run the engine for a minute at idle speed to give the oil a chance to work up into the engine.



CAUTION

Always ensure side stand is UP while starting off.

Starter will be disabled if side stand down – With side stand down condition and vehicle in gear, Engine cranking is disabled through ECU & 'side stand down' Indication will be displayed in speedometer.

- Do Not REV engine in standstill condition.
- This vehicle has new 'Assist & Slipper' (A & S) clutch. Due to this, very little force is required for clutch lever operation. You won't feel jerks while sudden downshifting. Slight pulsation is felt at clutch lever. This is normal & indicates "A & S" clutch is working well.
- If engine coolant temperature crosses 110°C , 'Coolant Temperature high' alarm message will be displayed on primary speedometer indicating engine is overheated. **If vehicle is further driven in such a condition coolant temperature will increase up to 115°C & ECU will not allow engine to run above 4500 RPM.**
- Always maintain engine oil / coolant level between MIN & MAX mark at vehicle upright position on level surface.

HOW TO RIDE YOUR BIKE



Ensure following maintenance points to get optimum performance from your bike.

Fuel	Always maintain minimum 3 Liter Petrol in fuel tank.
Spark Plug	Inspect and clean spark plug. Adjust electrode gap. Replace spark plug as per P.M. Chart.
Air Filter	Replace as per Periodic Maintenance Chart.
Engine Oil	Check engine oil level. Always use recommended grade and quantity.
Brakes	Ensure that the brakes are not dragging / binding.
Clutch	Ensure correct clutch lever play.
Tyre Air Pressure	Always maintain recommended tyre pressure.
Brake Fluid	Always maintain brake fluid level above minimum mark. Ensure no leakage of brake fluid in brake system.
coolant	Always maintain coolant level between minimum & maximum mark. Ensure no leakage of coolant in cooling system.

Fuel Saving Tips :

A well maintained vehicle and good driving can contribute a lot to the saving of petrol. Following are a few simple fuel saving tips.

- Ride smoothly and steadily at an optimum driving speed to get best mileage.
- Avoid harsh braking.
- Change the gear judiciously according to the speed and load requirement.
- Don't overload the vehicle above the specified payload.
- Use the accelerator judiciously.
- Cut off the engine if you want to stop for more than two minutes.

How to check mileage (Fuel efficiency)

Best way to calculate mileage is by following the full tank to full tank method.

- Fill way tank full up to small mouth (brim).
- Run the bike for say 100 km.
- Fill the tank full again in same fuel filling station, probably with same fuel dispenser.
- Divide kilometer run / fuel quantity filled.

SAFE RIDING TIPS



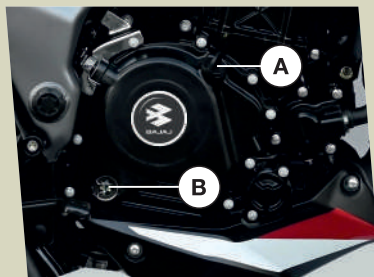
- Always wear Helmet while driving or riding. Your helmet should conform to Indian standards.
- Read thoroughly the instructions given in this manual and follow them carefully.
- Avoid unnecessary accessories for the safety of both rider and other motorists.
- Get familiar and follow traffic rules & regulations in your states as well as general traffic signs.
- Familiarise yourself well with starting, acceleration and braking of the vehicle.
- When applying the brakes, use both front & rear brakes simultaneously. Applying only one brake may cause the vehicle to lose control.
- Riding at proper speed, avoiding unnecessary acceleration and braking are important for safety, low fuel consumption and longer life of the vehicle.
- During monsoon, drive vehicle more cautiously. Remember vehicle skid more easily during light showers.
- Keep both hands firmly on handle bar & both feet securely on rider footrest. Do not take away both hands & / or feet from resting area as this is very unsafe.

- Do not use mobile phones while riding as it could lead to fatal accident.
- It is suggested to customer to take appropriate care in area of heavy monsoon or high rainfall area. The appropriate surface preventive coat to avoid rusting / poor surface finish on account of adverse atmospheric conditions.
- Always carry vehicle registration & insurance papers, and a valid driving licence with you.

General Maintenance Tips :

- Vehicle cleaning to be done with soft & clean wet cloth to avoid scratches on painted parts.
- Clean & lubricate all the important parts as detailed in a periodic maintenance chart.
- Do not apply direct water jet on painted, electrical / electronic parts.
- Do not obstruct engine cooling by adding mud protection sheet from front
- Drive cautiously. Start early & reach your destination safely.
- Avoid driving on loose sand or stones where vehicle is likely to skid.
- Properly wrap-up loose clothes while driving or riding to avoid entangling in wheel or other objects on road.
- Always concentrate on riding for safety.

ENGINE OIL



A : Oil Filler Cap
B : Oil Level Gauge

Engine Oil Level Checking:

- Check engine oil level every day. Park vehicle perpendicular to the ground on level surface.
- Check oil level through oil level gauge 'B'.
- Always maintain engine oil level between upper and lower mark provided on Cover RH. Top up with specified grade of oil if the oil level is below lower level mark.

Engine Oil Capacity:

- Refill at servicing : 1200 ml.
- During engine overhaul : 1400 ml.

Recommended Engine Oil:

Always insist on Bajaj Genuine Engine Oil for optimum engine performance and warranty benefits.

Model	Recommended Engine oil
Pulsar NS200	BGO SAE 20W50 JASO 'MA2' API SL

- **Engine oil replacement frequency : 1st service & then every 2,500 Km.**

Caution:

- It is most important to adhere to recommended grade & frequency of oil change for the purpose of long life of critical engine components. For details refer periodic maintenance chart.
- Do not reuse drained oil.

TUBELESS TYRE & TYRE PRESSURE



Tubeless Tyre :

The main advantage of tubeless tyres is in case of puncture the rate of air leak is very slow, hence customer can easily drive the vehicle upto nearest puncture repair shop for removing puncture.



Note:

Incase the motorcycle is fitted with imported tyres. compliance to respective Indian standard & central motor vehicle rules has been ensured.

Wheel Puncture:

- Visit nearest known tubeless tyre repair shop to remove puncture.
- Remove puncture by Filler or Plug method only.
- Do not use patch method to remove puncture of tubeless tyre.

△ **Caution:** Tubeless tyres are fitted in this motorcycle. The walls of the tyres in contact with the wheel rim should not be damaged in any way during fitment / removal of tyre. The tyre side walls in contact with wheel rim seals air.

Tyre Pressure:

Keep appropriate tyre pressure as mentioned below to increase life of the tyre & for better fuel consumption.

Model	Front Tyre	Rear Tyre
Pulsar NS200	25 PSI	28 PSI (Solo) 32 PSI With Pillion

BATTERY



Battery : 12V - 8 Ah VRLA

- Battery is located below Rider seat.

Battery Features :

- No topping-up is required
- Reduced self discharge, Enhance safety.
- No vent tube open to atmosphere hence no discharge of electrolyte through vent tube.

⚠ Caution:

Do not drive / run vehicle in battery disconnected condition.
It may lead to damage of electrical / electronic components.

- Environment care must be taken to dispose off the used battery.

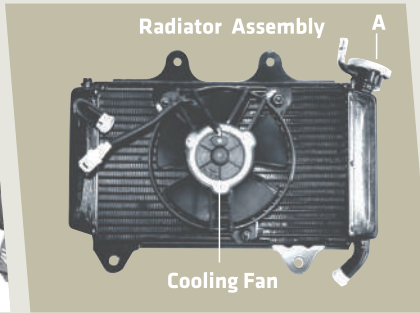
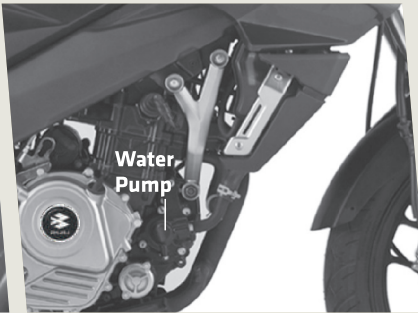
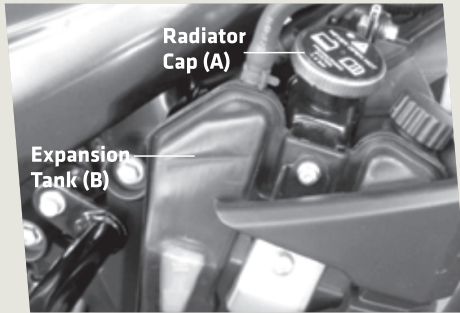
- When 'Low battery icon' pop-up in speedometer display, it is advised to reach DPMC Workshops or Service dealers & get it charged immediately.

How to keep battery healthy ?

- Switch 'Off' ignition when engine is not running.
- Get battery checked/ charged during periodic services.
- Do not add extra electrical accessories such as -Remote, Bigger Horn, Musical brake light etc. This will reduce life of battery & may damage ECU.
- Disconnect battery +ve & -ve wires if vehicle is to be stored for more than 2 weeks. This avoids self discharge.

ENGINE COOLING SYSTEM

pulsar
NE 200



- Coolant is provided for cooling of engine.
- Water pump in the engine circulates the coolant in cooling system.
- The pressure resulting from the warming of the cooling system is regulated by a valve in radiator cap (A).
- Heat expansion causes excess coolant to flow into expansion tank (B).
- When the coolant temperature drops, this surplus coolant is sucked back into the cooling system.
- Cooling fan is provided for cooling of coolant circulated through radiator fins.

Note:

Fan will start at temp 95°C and stops at 90°C . This is normal condition & it indicates cooling system functioning well.

⚠ Warning:

During operation, the coolant gets very hot & is under pressure. In case of scalding, rinse immediately with lukewarm water. Do not remove radiator cap, radiator hose or other cooling system components when the engine is hot. Allow the engine & cooling system to cool down.

COOLANT



⚠ Warning:

Coolant is poisonous and causes health hazard.

Avoid contact between coolant & skin, eyes and clothing. If it gets into your eyes, rinse immediately with water and contact a doctor.

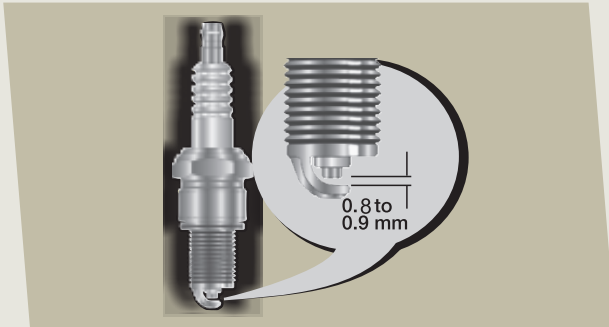
Wash affected skin areas immediately with soap and water. If coolant is swallowed, contact a doctor immediately. Change clothes that have come in contact with coolant. Keep coolant out of the reach of children.

Coolant Top up

- Park vehicle perpendicular to the ground on level surface by using side stand.
- Check coolant level in engine cold condition only.
- Ensure coolant level is between Min & Max mark.
- Always top up coolant through expansion tank cap (A).
- Use nitrile rubber hand gloves while draining & topping up coolant.
- Do not top up coolant through radiator cap.

PERIODIC MAINTENANCE INFORMATION

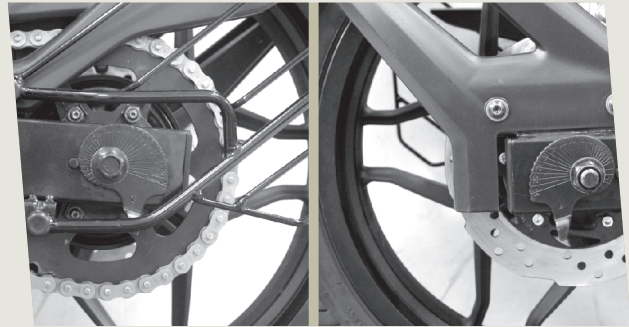
pulsar
NE200



Spark Plug

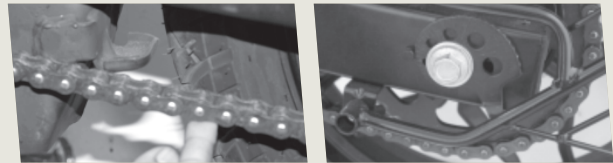
- Remove spark plug by using plug spanner.
- Clean the spark plug.
- Adjust the gaps if incorrect by bending outer electrode carefully.

Spark Plug Gap: 0.8 to 0.9 mm.

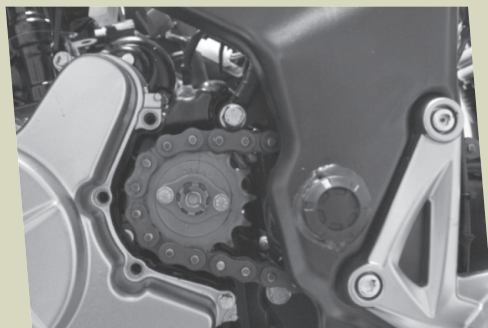


Drive Chain Slackness

- Chain slackness will have to be adjusted whenever required.
- Std. Chain slackness 15 ~ 25 mm.
- Marking on chain adjusters should be identically positioned on both sides.



PERIODIC MAINTENANCE INFORMATION



**Drive Chain
Cleaning**

Drive chain must be cleaned & lubricated as per periodic maintenance schedule.

Drive Chain (Sealed type)

- 'O' rings must always be kept wet for best performance hence lubricate every 500 Km.
- Sealed chain lubrication can easily be done by owners using 'Chain Lube Spray Can'.



**Drive Chain
Lubrication**

Method of sealed type Chain Lubrication :

- Park vehicle perpendicular to the ground on level surface. Clean the chain by using lint free cloth (If excessive mud /slush found approach DPMC Workshops or Service dealers for proper cleaning).
- Shake the can vigorously by holding vertically upright till the noise of steel ball inside heard uniformly.
- Hold spray can at the back of rear sprocket with extension tube nose at 5~10 cm.
- Rotate the wheel in reverse direction & spray the lube on middle portion of the chain up to full length of the chain.

BRAKE FLUID



**Front Brake
Fluid
Reservoir**



**Rear Brake
Fluid
Reservoir**

Front & Rear Brake Fluid Level

- Front brake fluid reservoir is located on RH side of Handle bar.
- Rear brake fluid reservoir is located behind RH pillion holder bracket.
- To check the brake fluid level, Park the vehicle perpendicular to the ground on level surface with handle bar in straight ahead condition.

- Always ensure that brake fluid level is above 'MIN' mark given on inspection Window.
- In case of level drop, use only DOT-4 brake fluid (from sealed container) for top up & replacement.

PERIODIC MAINTENANCE & LUBRICATION CHART



Sr. No.	Activities / Check points	Recommended frequency - Service interval & Kms								Remarks
		Servicing	1st	2nd	3rd	4th	5th	6th	7th	
		KMS	500 ~ 750	2000 ~ 2500	4500 ~ 5000	7000 ~ 7500	9500 ~ 10000	12000 ~ 12500	14500 ~ 15000	
1.	Servicing with water wash		CL	CL	CL	CL	CL	CL	CL	Ensure to prevent water entry in Petrol tank, Silencer & electrical parts. Use caustic free detergent for washing.
2.	Engine oil (Bajaj Genuine Oil)	R		R	R	R	R	R	R	Use BGO 20W50 JASO 'MA2' API SL window cleaning at every 10000 kms by petrol spray & nylon brush.
3.	Engine oil Filter	R	R	R	R	R	R	R	R	Replace oil filter in every oil change.
4.	Oil strainer	CL	CL	CL	CL	CL	CL	CL	CL	Oil strainer cleaning at the time of oil change.
5.	Air cleaner element** & air filter cover 'O' ring. Drain tube cleaning.	CL	CL	CL	CL	CL	CL	CL	CL	Replace viscous filter at every 20,000 kms
6.	in-line fuel filter	R				R			R	Replace at every 7500kms
7.	Inline fuel filter nylon hoses with quick connector						C,R			Replace if required
8.	Spark plug clean & check gap	CL,A	CL,A	CL,A	CL,A	CL,A	CL,A	CL,A	CL,A	Replace at every 20000 kms
9.	Valve tappet clearance					C, A				Adjust if required
10.	Throttle body rubber duct (Sleeve) for hard resulting in loose fitment.	C,R		C	C	C	C	C	C	Replace if required
11.	Engine breather tube for cracks.			C	C	C	C	C	C	Replace if required
12.	EVAP system Hoses- check for cracks			C	C	C	C	C	C	Replace if required
13.	Radiator fins	C,R	C	C	C	C	C	C	C	If found damaged, replace it

PERIODIC MAINTENANCE & LUBRICATION CHART



Sr. No.	Activities / Check points	Recommended frequency - Service interval & Kms								Remarks
		Servicing	1st	2nd	3rd	4th	5th	6th	7th	
		KMS	500 ~ 750	2000 ~ 2 500	4500 ~ 5000	7000 ~ 7500	9500 ~ 10000	12000 ~ 12500	14500 ~ 15000	
14.	Check Coolant level in expansion tank / Hose clamp adjustment	C,A	C,A	C,A	C,A	C,A	C,A	C,A	C,A	Coolant top up if required
15.	Coolant & Radiator hoses	Replacement at every 30000 Kms or 3 year (whichever occurs earlier)								
16.	Engine foundation silent bushes for cracks	C,R			C		C		C	Replace if required
17.	Silencer drain hole cleaning	CL			CL	CL	CL	CL	CL	
18.	Wiring harness connections, routine & Conduit / PVC sleeve inspection.	C,A,T	C,A,T	C,A,T	C,A,T	C,A,T	C,A,T	C,A,T	C,A,T	Damaged conduit / PVC sleeves protection by applying electrical tape film
19.	Battery , connections	C,T	C,T	C,T	C,T	C,T	C,T	C,T	C,T	Apply petroleum jelly on battery terminals
20.	Ignition switch contacts cleaning	CL,L			CL,L		CL,L		CL,L	Use recommended WD40 spray
21.	HT coil connections (Primary and Secondary)	C,T		C,T	C,T	C,T	C,T	C,T	C,T	
22.	Starter motor & starter relay connections	C,T		C,T	C,T	C,T	C,T	C,T	C,T	
23.	Oil pressure indicator check on console post ignition ON.	C	C	C	C	C	C	C	C	Icon should disappear post engine ON. After 4000 rpm, no icon should be displayed.
24.	Check fault code, Clear fault history	C	C	C	C	C	C	C	C	
25.	sealed Drive chain wear**- Clean, Lubricate & adjust. Replace if required	CL,L,A	CL,L,A	CL,L,A	CL,L,A	CL,L,A	CL,L,A	CL,L,A	CL,L,A	Use chain lub spray at every 500 kms

PERIODIC MAINTENANCE & LUBRICATION CHART



Sr. No.	Activities / Check points	Recommended frequency - Service interval & Kms								Remarks
		Servicing	1st	2nd	3rd	4th	5th	6th	7th	
		KMS	500 ~ 750	2000 ~ 2500	4500 ~ 5000	7000 ~ 7500	9500 ~ 10000	12000 ~ 12500	14500 ~ 15000	
26.	side stand pivot pin	C,L	C,L	C,L	C,L	C,L	C,L	C,L	C,L	Use recommended AP grease
27.	Steering play	C,A	C,A	C,A	C,A	C,A	C,A	C,A	C,A	
28.	Steering stem bearing & Cap steering bearing (Plastic)**	C,CL,L					C,CL,L			Replace if required. Use AP grease for lubrication
29.	Front fork & seal	C	C	C	C	C	C	C	C	
30.	Step-pillion LH & RH (Ball & Plate)	CL,L		CL,L		CL,L		CL,L		Replace ball & plate, if required.
31.	Swing arm NRB for more play	L								Lubricate at every 40,000 Kms.
32.	Brake pads for wear limit.	C,R	C	C	C	C	C	C	C	Replace if required.
33.	Check source of leakages if any in the brake system. Check Front & rear brake hose condition. Check Brake fluid level and top up, if needed.	C,A,R	C,A	C,A	C,A	C,A	C,A	C,A	C,A	Replace if damaged
34.	Rear sprocket fasteners for looseness.	C,T					C,T			Use model wise torque values.
35.	Rear wheel rubber shock dampers for excess play.	C,R					C			Replace rear wheel rubber shock damper if required
36.	Fairing & windshield well nuts for rubber cracks	C,R			C	C	C	C	C	Replace if required.
37.	Clutch & Throttle cable free play adjustment	C,A	C,A	C,A	C,A	C,A	C,A	C,A	C,A	Replace cables if operation found hard.
38.	Head light focus adjustment	C,A	C	C	C	C	C	C	C	Adjust if required
39.	Check & confirm all bulbs / switches working.	C	C	C	C	C	C	C	C	Contact type switches if found sticky then use recommended WD40 spray

PERIODIC MAINTENANCE & LUBRICATION CHART



Sr. No.	Activities / Check points	Recommended frequency - Service interval & Kms								Remarks
		Servicing	1st (Free)	2nd (Free)	3rd (Free)	4th	5th	6th	7th	
		KMS	500 ~ 750	2000 ~ 2500	4500 ~ 5000	7000 ~ 7500	9500 ~ 10000	12000 ~ 12500	14500 ~ 15000	
40.	General lubrication – Clutch lever	L	L	L	L	L	L	L	L	Use recommended AP grease.
41.	Tyre air pressure.	C,A	C,A	C,A	C,A	C,A	C,A	C,A	C,A	Ensure model wise tyre air pressure.
42.	Mirror position & joint firmness.	C,A	C,A	C,A	C,A	C,A	C,A	C,A	C,A	
43.	Mobile USB port	C	C	C	C	C	C	C	C	Charging OK to be checked at Engine start condition using LED USB light
44.	All fasteners tightness, few are, Front & rear axle, Swing arm axle, Engine foundation, Rider foot rest, Pillion stay	C,T	C,T	C,T	C,T	C,T	C,T	C,T	C,T	Use model wise torque values.

****More frequent cleaning may be required while driving in dusty environment.**

C : Check, A : Adjust, CL : Clean, R : Replace, T : Tighten, L : Lubricate

Note : Periodic parts, Oil, Coolant, Filters, All types of greases, Cleaning agents, Cables, Wear & tear parts, Rubber 'O' rings / oil seals / pipes, Gaskets to be replaced as per Periodic Maintenance and Lubrication Chart are mandatory and the same are chargeable to customer.

NON USE MAINTENANCE



Non-use maintenance is necessary if a vehicle remains off road for a longer duration (more than 15 days**). The correct and careful non-use maintenance carried out before storing the vehicle will prevent the vehicle from rusting and from such other non-operational damages like fire hazards.

- Clean the entire vehicle thoroughly.
- Empty the fuel from the fuel tank (if fuel is left in for a longer time, the fuel will break and gummy substance could clog the fuel system & fuel pipe).
- Remove spark plug & put several drops of engine oil into the cylinder. Crank engine over slowly a few times to coat cylinder wall with oil & install back spark plug.
- Set the vehicle on a box or a stand so that both wheels are raised off the ground.
- Spray oil on all unpainted metal surfaces to prevent rusting. Avoid getting oil on rubber parts or brake liners.
- Cover entire vehicle neatly. Make sure that storage area is well ventilated & free from any source of flames or spark.
- Fill 10% excess air pressure in both wheels.
- Do not apply oil on front brake disc, to prevent rusting. If the front brake disc rusts during storage, do not attempt to clean it with soap water. The rust will go off automatically during first few application of brake.

** For Battery:

- a. Remove battery and keep it on wooden plank, in properly ventilated area.
 - b. Before taking the vehicle for use.
- Get the battery recharged from the DPMC Workshops or Service dealers.
 - Apply petroleum jelly on battery terminals.

Preparation for regular use after storage:

- Follow daily safety checklist mentioned on page no 27.

USE ONLY BAJAJ GENUINE PARTS



- * For optimum performance of vehicle.
- * For prolonged life of components & vehicle.
- * For economical maintenance cost.
- * For rider's safety.



BAJAJ
GENUINE SPARE PARTS



NOTES



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