



**ATV-50/90/100 I/II/V**  
**EJERMANUAL**

## **FORORD**

Må vi , producenten, benytte denne lejlighed til at takke dig,for at have valgt vores **ATV** til at tjene dig.

Denne ejermanual er udarbejdet til dig for at give detaljerne mht. drift og nødvendig vedligehold for at kunne fungere på en sikker måde. Derfor beder vi dig om at læse manualen, før du tager køretøjet i brug.

Det er vores oprigtige ønske, at du vil nyde at bruge ATV-en og få en masse sjov ud af den. Skulle du have nogen som helst problemer, er du yderst velkommen til at kontakte din lokale forhandler i dit område.

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## **SAFETY NOTES**

-  Don't allow your child to ride without your supervision.
-  This vehicle is for **OPERATOR-ONLY, NO PASSENGERS.**
-  Keep a safety distance between your vehicle and other vehicles.
-  This vehicle is designed to be operated only on level, off road surfaces, free of obstacles.
-  Both the parent and their children must fully understand everything in this manual before riding.
-  It is illegal to ride this vehicle on public roads or highways. If it is necessary to cross a public road, please to get off this vehicle and push it across.
-  Do not operate this vehicle while under the influence of alcohol or drugs. This can impair judgments and result in serious injury or even death.

## SPECIFICATIONS

Model	ATV-50(1)	ATV-90(1)	ATV-100(1)
ENGINE CAPACITY	49cc	83cc	96cc
TYPE	AIR-COOLED , 2 STROKE		
STARTING	KICK & ELECTRIC		
LUBRICATION	OIL MIXED WITH THE FUEL		
TRANSMISSION	AUTOMATIC (C.V.T. , V-Belt)		
SPARK PLUG	NGK BP7HS		
BATTERY	12V-4AH		
OIL CAPACITY	1 Liter		
FUEL TANK	5 Liter		
OVERALL LENGTH	1465 mm	1525 mm	
OVERALL WIDTH	875 mm	890 mm	
OVERALL HEIGHT	860 mm	900 mm	
SEAT HEIGHT	660 mm	700 mm	
WHEEL BASE	955 mm		
CLAIMED DRY WEIGHT	100 kg	105 kg	
BRAKE	Front: Double Drum / Rear: Drum or Disk (Optional)		
SUSPENSION	Front: A-Arm / Oil damped : Rear: Swing Arm / Single shock		
FRONT TIRE	16x8-7	20x7-8(19x7-8)	
REAR TIRE	16x8-7	18x9.5-8(19x7-8)	

## SPECIFICATIONS

Model	ATV-50(2)	ATV-90(2)	ATV-100(2)
ENGINE CAPACITY	<b>49cc</b>	<b>83cc</b>	<b>96cc</b>
TYPE	AIR-COOLED , 2 STROKE		
STARTING	KICK & ELECTRIC		
LUBRICATION	OIL MIXED WITH THE FUEL		
TRANSMISSION	AUTOMATIC (C.V.T. , V-Belt)		
SPARK PLUG	NGK BP7HS		
BATTERY	12V-4AH		
OIL CAPACITY	1 Liter		
FUEL TANK	5 Liter		
OVERALL LENGTH	1465 mm	1525 mm	
OVERALL WIDTH	875 mm	890 mm	
OVERALL HEIGHT	860 mm	900 mm	
SEAT HEIGHT	660 mm	700 mm	
WHEEL BASE	955 mm		
CLAIMED DRY WEIGHT	100 kg	105 kg	
BRAKE	Front: Double Drum / Rear: Drum or Disk (Optional)		
SUSPENSION	Front: A-Arm / Oil damped : Rear: Swing Arm / Single shock		
FRONT TIRE	16x8-7	20x7-8(19x7-8)	
REAR TIRE	16x8-7	18x9.5-8(19x7-8)	

## SPECIFICATIONS

Model	ATV-50(5)	ATV-90(5)	ATV-100(5)
ENGINE CAPACITY	<b>49cc</b>	<b>83cc</b>	<b>96cc</b>
TYPE	AIR-COOLED , 2 STROKE		
STARTING	KICK & ELECTRIC		
LUBRICATION	OIL MIXED WITH THE FUEL		
TRANSMISSION	AUTOMATIC (C.V.T. , V-Belt)		
SPARK PLUG	NGK BP7HS		
BATTERY	12V-4AH		
OIL CAPACITY	1 Liter		
FUEL TANK	5 Liter		
OVERALL LENGTH	1465 mm	1525 mm	
OVERALL WIDTH	875 mm	890 mm	
OVERALL HEIGHT	860 mm	900 mm	
SEAT HEIGHT	660 mm	700 mm	
WHEEL BASE	955 mm		
CLAIMED DRY WEIGHT	100 kg	105 kg	
BRAKE	Front: Double Drum / Rear: Drum or Disk (Optional)		
SUSPENSION	Front: A-Arm / Oil damped : Rear: Swing Arm / Single shock		
FRONT TIRE	16x8-7	20x7-8(19x7-8)	
REAR TIRE	16x8-7	18x9.5-8(19x7-8)	



## SPECIFICATIONS

Model	ATV-50(6)	ATV-90(6)	ATV-100(6)
ENGINE CAPACITY	<b>49cc</b>	<b>83cc</b>	<b>96cc</b>
TYPE	AIR-COOLED , 2 STROKE		
STARTING	KICK & ELECTRIC		
LUBRICATION	OIL MIXED WITH THE FUEL		
TRANSMISSION	AUTOMATIC (C.V.T. , V-Belt)		
SPARK PLUG	NGK BP7HS		
BATTERY	12V-4AH		
OIL CAPACITY	1 Liter		
FUEL TANK	5 Liter		
OVERALL LENGTH	1480 mm	1525 mm	
OVERALL WIDTH	930 mm	890 mm	
OVERALL HEIGHT	940 mm	940 mm	
SEAT HEIGHT	700 mm	740 mm	
WHEEL BASE	955 mm		
CLAIMED DRY WEIGHT	100 kg	105 kg	
BRAKE	Front: Double Drum / Rear: Drum or Disk (Optional)		
SUSPENSION	Front: A-Arm / Oil damped : Rear: Swing Arm / Single shock		
FRONT TIRE	16x8-7	20x7-8(19x7-8)	
REAR TIRE	16x8-7	18x9.5-8(19x7-8)	

## PERIODICAL CHECK & SERVICES

### Maintenance Schedule










The maintenance intervals in the following table are based upon average riding conditions. Riding in unusually dusty areas, require more frequent servicing.

Items \ Time of service	Initial Service *First week	Monthly	Quarterly	Yearly
Air cleaner			<b>C</b>	<b>C,I</b>
Petrol filter/Fuel Tube	<b>I</b>		<b>I</b>	
Tire pressure/Wear	<b>I</b>	<b>I</b>		
Battery			<b>I</b>	
Brake tolerance & Steering handle	<b>I</b>	<b>A</b>		
Shock absorber		<b>I</b>		
Tightness of screws	<b>I</b>	<b>I</b>		
Spark plug			<b>C</b>	
Replace gearbox oil				<b>I</b>
Lubricating of chassis			<b>C,G</b>	<b>I</b>
Carburetor	<b>I</b>		<b>A</b>	<b>C</b>
Drive chain	<b>I</b>		<b>I,A,G</b>	

 **C:** Clean; **A:** Adjust; **G:** Grease; **I:** Inspection, check, replace if necessary

## **CHECK PRIOR TO OPERATE**

Inspect your vehicle every day before you run it. It only takes a few minutes to check and may save your life.

-  Check the tires condition and pressure.
-  Check the nuts, bolts and other fasteners.
-  Check the drive chain condition and slack.
-  Check the engine stop switch for good function.
-  Check the throttle for smooth opening and closing.
-  Check the fuel level in fuel tank and oil level in oil tank.
-  Check the brake operation to see is there any tie-up by brake cables.
-  Check the easiness for turning to the left and right of steering handle.
-  Check brake lever for effective braking. The free play should be between 1-2 cm(About 1/2 inch). Try braking soon as you are driving off.

## **CHECK PRIOR TO OPERATE**

### **CHECK and / or REFILL OIL**

#### **CAUTIONS :**

- \* Be sure to have sufficient oil, and the cap is installed properly.
- \* Total oil tank capacity : 1.0 Liter
- \* Prescribed oil: 2-cycle engine oil only, synthetic type is recommended.
- \* Use grade SAE 90 for transmission gear oil.
- \* If oil is insufficient, it would damage or burn out the engine parts.

### **CHECK and / or REFILL FUEL**

#### **CAUTIONS :**

- \* Stop the engine for refilling.
- \* Use unleaded gasoline with octane level 92 or higher.
- \* Turn the fuel tank cap clockwise to tight up. Counter clockwise to loose it.
- \* Do not overfill the fuel. It could cause fire when the engine is hot.

## CHECK PRIOR TO OPERATE

### TIRES PRESSURE

Check tire pressure if they are normal.

Tire size: 16x8-7 (50cc), 20x7-8, 18x9.5-8  
Recommended tire pressure: 8 psi (0.56 kgf/cm<sup>2</sup>)  
Max. pressure : 10 psi (0.7 kgf/cm<sup>2</sup>)  
Min. pressure : 6 psi (0.42 kgf/cm<sup>2</sup>)

Tire size: 19x7-8  
Recommended tire pressure: 2.2 psi (0.15 kgf/cm<sup>2</sup>)  
Max. pressure : 2.6 psi (0.18kgf/cm<sup>2</sup>)  
Min. pressure : 1.8 psi (0.13kgf/cm<sup>2</sup>)



- ⚠ Check if there is any gravel in the tread grooves or any nail puncture. If so clean it.
- ⚠ Check for any crack or heavy worn-out. If worn-out exceeds the limit, replace it.
- ⚠ Check the marking on tires for detail specification and information.

## **CHECK PRIOR TO OPERATE BATTERY**

- ⚠ Open the seat.
- ⚠ Remove positive and negative terminals (negative first).
- ⚠ Remove battery and check voltage.
- ⚠ Normal voltage : 12V and above
- ⚠ Keep terminals clean constantly.
- ⚠ Charge the battery base on the instruction.



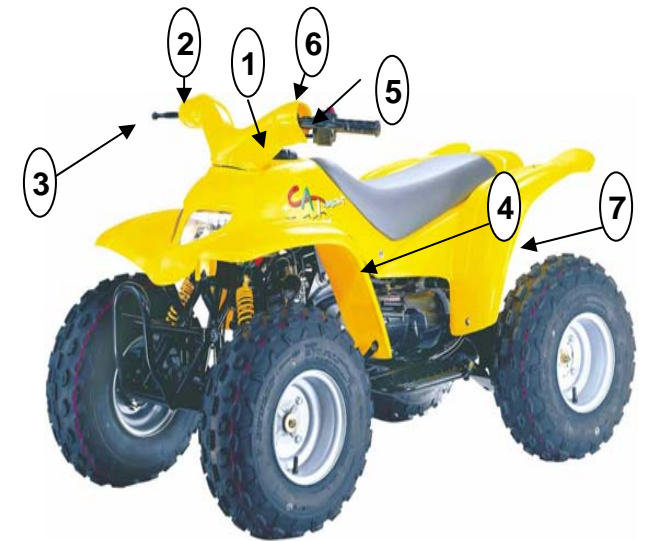
## **FRONT & REAR SHOCK ABSORBERS**

- ⚠ Apply pressure on both front steering handle and seat to check the function of front and rear absorbers.
- ⚠ Check if exhaust is normal

## OPERATION

### PARTS LOCATIONS (ATV I)

- (1) Fuel tank
- (2) Throttle lever
- (3) Front brake lever
- (4) Fuel valve
- (5) Rear brake / parking brake lever
- (6) Engine operation switch
- (7) Seat Lock



## OPERATION

### PARTS LOCATIONS (ATV II)

- (1) Fuel tank
- (2) Throttle lever
- (3) Front brake / parking brake lever
- (4) Fuel valve
- (5) Rear brake / parking brake lever
- (6) Engine operation switch
- (7) Seat lock





## OPERATION

### PARTS LOCATIONS (ATV V)

- (1) Fuel tank
- (2) Throttle lever
- (3) Front brake / parking brake lever
- (4) Fuel valve
- (5) Rear brake / parking brake lever
- (6) Engine operation switch
- (7) Seat lock



## OPERATION

### PARTS LOCATIONS (ATV VI)

- (1) Fuel tank
- (2) Throttle lever
- (3) Front brake / parking brake lever
- (4) Fuel valve
- (5) Rear brake / parking brake lever
- (6) Engine operation switch
- (7) Seat lock



## OPERATION

### MAIN SWITCH

#### OFF

- ⚠ To turn off the engine.
- ⚠ The key can be extracted.

#### ON

- ⚠ To start the engine.
- ⚠ The key can not be taken out.

#### ☰D

- ⚠ To operate the head light.
- ⚠ The key can not be taken out.



## OPERATION

### ELECTRIC STARTER

\* Cranks the engine.

**⚠ CAUTIONS :**

- \* Don't push the starter button down again as the engine is running.
- \* Don't press the starter button more than 10 seconds when start up.

### HEADLIGHT BEAM SWITCH

 **Low beam**

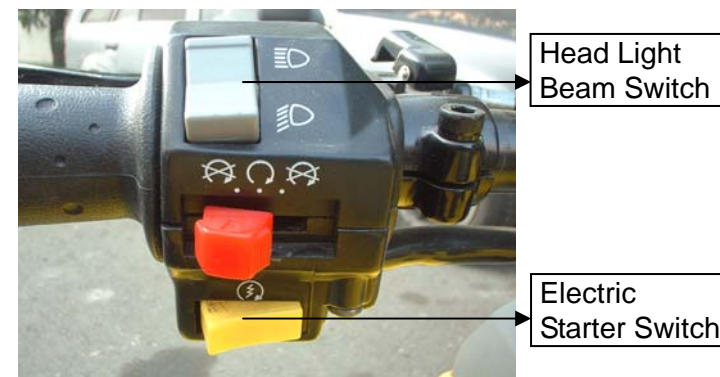
\* For normal condition.

 **High beam**

\* For farther lighting.

**⚠ Notice:**

For US version there hasn't equipped with "Head Light Beam Switch".



## OPERATION

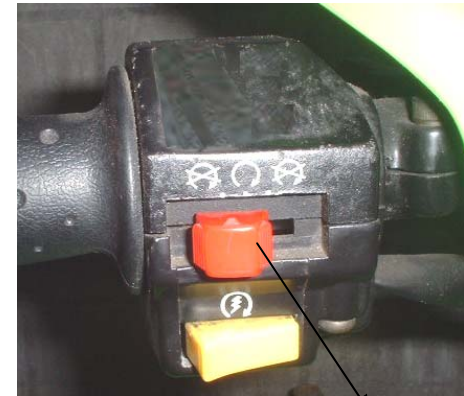
### ENGINE OPERATION SWITCH

**RUN** 

- \* Engine can start-up and operate.



**STOP** 

- \* The engine will not operate.  
It also can used as an emergency stop switch.



Engine Operation Switch

## OPERATION LIGHTING INDICATOR (ATV-R)

<b>R</b>	Reverse
<b>N</b>	Neutral
	High Beam
<b>1</b>	1 <sup>st</sup> Gear
<b>2</b>	Drive Gear
	Oil Warning



**OPERATION**  
**MODE OF SHIFT GEAR**  
**(ATV with Reverse)**

**1. NEUTRAL GEAR**



Shift Rod

**2. DRIVE GEAR**



**3. 1<sup>st</sup> GEAR**



**4. REVERSE GEAR**



## OPERATION

### ENGAGEMENT TO REVERSE GEAR

1. Shift rod in “N” position, pull the reverse lever to left side and hold on.
2. Pull the shift rod backward to engaged reverse gear then release the reverse lever for driving.



### CAUTION

Never force to engage reverse gear without using reverse lever.



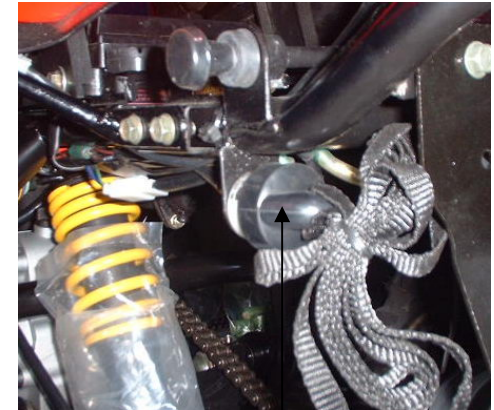
Reverse Lever



## **OPERATION**

### **SAFETY SWITCH (50CC ONLY)**

This switch is located on rear left side of the chassis. This switch is equipped with a cap and rope. The cap must attach with the vehicle and the rope is to tie-up on the rider's belt or wrist. This is to protect the rider's safety.



Safety Switch

## OPERATION



### FRONT/REAR BRAKE AND PARKING BRAKE

1. Pull the front/rear brake lever firmly.
2. Press the lever downward to the fixed brake position.
3. As brake position is fixed, the wheels will stop.

#### **CAUTIONS :**

※Adjusted the rear brake properly, otherwise, the parking brake may not be functioned even though the brake lever is set at fixed position.

#### **Brake Release**

-  Pull the brake lever tightly, the fixed lever will bound off.
-  There will be no brake function after brake lever is released



## OPERATION

### FRONT BRAKE FLUID LEVEL ( DISC BRAKE VERSION ONLY )

Check the fluid level :

Make the handlebar straight for checking the brake fluid level.


Brake fluid level shall be keep between the upper and lower limits.


Add brake fluid if necessary or replace it, if when the fluid color became dark brown.



## OPERATION


### ENGINE START-UP

 Make sure to have enough oil and fuel prior to start-up.

1. Turn “Main Switch” on.
2. Set the engine operation switch in “” POSITION.
3. Pull the left brake lever then start engine by using the electric starter, throttle lever should be at the “close” state
4. Warm-up for several minutes is necessary after a cool engine start-up.

 **CAUTIONS :**

- \* Release the starter button immediately after engine start-up.
- \* Do not press the button again as engine is running or parts may be damaged.
- \* Start-up the engine at an open area since the exhaust gases from the engine is poisonous carbon monoxide.

 In case the engine will not start after the starter running 3 ~ 4 seconds, push the throttle lever slightly, then engine should start.

## **OPERATION**

### **FUEL VALVE**

- ⚠ The fuel valve is located on the right side of the vehicle.
- ⚠ When the arrow mark on the lever pointed at “ON” position, the fuel is supply Under normally condition.
- ⚠ When the arrow is pointed at “OFF”, the fuel can not supply.
- ⚠ When arrow mark pointed at “RES”, please refill the gasoline as soon as possible.



## **CORRECT WAY OF DRIVING START OF DRIVING**

Use your thumb to press the throttle lever for acceleration or deceleration.

- ⚠ Acceleration is to increase the speed. Slowly press the throttle lever it will activate the engine power.
- ⚠ Deceleration is to decrease the speed. Release the throttle lever, it will return to natural position automatic.
- ⚠ Because the rear wheel does not provide differing rate of wheel rotation. The rider must learn to move his weight and control the throttle not to thump over.



Throttle Lever

## **CORRECT WAY OF DRIVING**

### **STOP OF THE VEHICLE**

To approaching the parking point.

⚠ Release the accelerator and apply both front and rear wheel brakes while the vehicle is stopped.

Complete stop

- \* Engine will stop as the main switch turns to “ OFF ” .
- \* Do not park on uneven ground to avoid tipping over.

⚠ **CAUTIONS :**

\* Don't turn the main switch or engine operation switch to “OFF” during




### **BRAKE-IN PROCESS**

During the first couple weeks of riding, do not run the vehicle very fast and do not approach maximum RPM of the engine. The brake-in process will greatly increase the lifetime and long term power of the engine.

## **ABNORMALITIES AND TUORBLE SHOOTING**

### **If the engine fails to start or to keep running.**

Try to diagnose these malfunctions yourself first as follows.

-  Check the engine stop switch is in the RUN position.
-  Check the gas tank if fuel is available and sufficient.
-  Whether the procedure for engine start-up is correct

**Contact the local dealer as soon as possible for checking on any abnormality of your vehicle.**



## PRODUCT IDENTIFICATION NUMBER

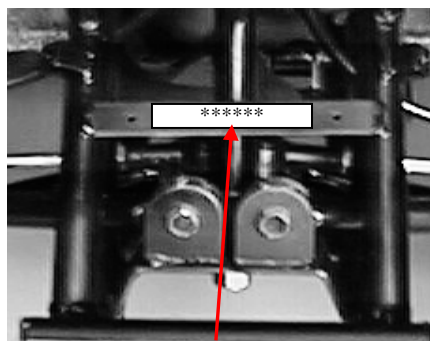
Please record the frame and engine number for reference.

The frame number (VIN) is stamped on the front of vehicle.

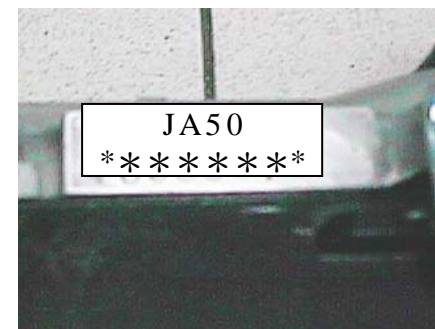
FRAME NO. RFL

The engine number is engraved on top of left crankcase.

ENGINE NO. \_\_\_\_\_



FRAME NUMBER



ENGINE NUMBER

## **P.D.I. (Pre-Delivery Inspection)**

- 1. Record the frame and engine number into the owner's manual.
- 2. Check that all tires have correct pressure specified on the owner's manual.
- 3. Engine oil (2 strokes, Grade SAE30) tank is filled.
- 4. Battery is installed properly.
- 5. All brake cables are adjusted properly.
- 6. Fuel tank has enough gasoline to operate.
- 7. Check the suspension and drive chain for proper setup.
- 8. Check that all electrical components and lights are working properly.
- 9. Make sure that the owner's manual and tool bag are installed under the seat.

**Check the owner's manual or ask your dealer for any further questions.**

## ASSEMBLY INSTRUCTION

1. Take out the battery and fill with acid liquid that apposed with battery.  
Pre-charge the battery will extend its life.  
The preparation and charge procedure is based on the battery's instruction.
2. Install the rear wheels and parts in the following order:
  - A. 14x40x4.5mm washer (big)
  - B. 14mm hex-bolt (torque 450~550kg-cm, 44~54N-m)
  - C. Cotter pin (open up the end after installed)
  - D. Rubber cap.
3. Install the front wheels and parts in the following order:
  - A. 12x40x4.5mm washer (big)
  - B. 12mm hex-bolt (torque 300~350kg-cm, 29.5~34N-m)
  - C. Cotter pin (open up the end after installed)
  - D. Rubber cap.
4. Install the front bumper.

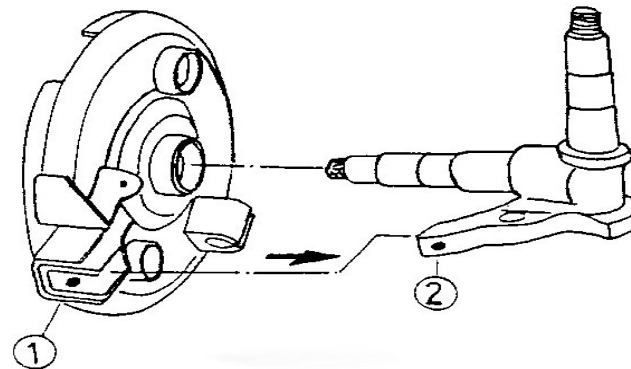
## **ASSEMBLY INSTRUCTION (Continue)**

5. Set the handle bar into the lock-pin of the steering base. Tie-up the 4 hex-socket bolts. Install the rear cover into handle bar and adjust the cables and wires properly.
6. Pull the seat-lock cable and remove the seat. Install the battery with the red wire to positive (+) and the black wire to the negative (-).
7. Fill two-stroke injection oil to the oil tank and unleaded gasoline to fuel tank for operation. Be sure the arrow mark on the fuel valve lever (petcock) is set to the "ON" position.
8. Turn on the main switch and try to start-up the engine.  
In order to use the electric starter, you need to check the following:
  - A. Turn on the engine operation switch located on left handle bar
  - B. Pull the rear-brake lever
  - C. Press the electric starter bottom to start.

## ASSEMBLY INSTRUCTION (Continue)

9. If the vehicle is operating in a very dusty area, please add more oil on the air cleaner filter.

**CAUTION** : Before install the front rim, beware the stopper① of front brake plate assembly must fit into the front knuckle 7-mm plate②.



## MAINTENANCE and SERVICE RECORD

P.D.I.	500 KM	1,000 KM
NOTES : _____ _____ _____	NOTES : _____ _____ _____	NOTES : _____ _____ _____
DEALER : _____ DATE :	DEALER : _____ + _____ DATE :	DEALER : _____ DATE :
2,000 KM	3,000 KM	4,000 KM
NOTES : _____ _____ _____	NOTES : _____ _____ _____	NOTES : _____ _____ _____
DEALER : _____ DATE :	DEALER : _____ DATE :	DEALER : _____ DATE :

## MAINTENANCE and SERVICE RECORD

5,000 KM	6,000 KM	7,000 KM
NOTES : _____ _____ _____	NOTES : _____ _____ _____	NOTES : _____ _____ _____
DEALER : _____ DATE : _____	DEALER : _____ DATE : _____	DEALER : _____ DATE : _____
8,000 KM	9,000 KM	10,000 KM
NOTES : _____ _____ _____	NOTES : _____ _____ _____	NOTES : _____ _____ _____
DEALER : _____ DATE : _____	DEALER : _____ DATE : _____	DEALER : _____ DATE : _____

## MAINTENANCE and SERVICE RECORD

11,000 KM	12,000 KM	13,000 KM
NOTES : _____ _____ _____	NOTES : _____ _____ _____	NOTES : _____ _____ _____
DEALER : _____ DATE :	DEALER : _____ + _____ DATE :	DEALER : _____ DATE :
14,000 KM	15,000 KM	16,000 KM
NOTES : _____ _____ _____	NOTES : _____ _____ _____	NOTES : _____ _____ _____
DEALER : _____ DATE :	DEALER : _____ DATE :	DEALER : _____ DATE :



## ABNORMALITIES SERVICE RECORD

ODOMETER :            KM	ODOMETER :            KM	ODOMETER :            KM
NOTES : _____ _____ _____	NOTES : _____ _____ _____	NOTES : _____ _____ _____
DEALER : _____	DEALER : _____	DEALER : _____
DATE : _____	DATE : _____	DATE : _____
ODOMETER :            KM	ODOMETER :            KM	ODOMETER :            KM
NOTES : _____ _____ _____	NOTES : _____ _____ _____	NOTES : _____ _____ _____
DEALER : _____	DEALER : _____	DEALER : _____
DATE : _____	DATE : _____	DATE : _____

## ABNORMALITIES SERVICE RECORD

ODOMETER :            KM	ODOMETER :            KM	ODOMETER :            KM
NOTES : _____ _____ _____	NOTES : _____ _____ _____	NOTES : _____ _____ _____
DEALER : _____	DEALER : _____	DEALER : _____
DATE : _____	DATE : _____	DATE : _____
ODOMETER :            KM	ODOMETER :            KM	ODOMETER :            KM
NOTES : _____ _____ _____	NOTES : _____ _____ _____	NOTES : _____ _____ _____
DEALER : _____	DEALER : _____	DEALER : _____
DATE : _____	DATE : _____	DATE : _____