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FOREWORD

May we, the manufacturer, take this opportunity to thank you for choosing our **ATV** to serve you.

This Owner's Manual is prepared for you to properly operate in safety. It also includes information about the general care and maintenance of your **ATV**. Therefore, we would like you to read the manual before operating the vehicle.

It is our sincere wish that you enjoy operating the **ATV** and receive fun from it. Should you have any problems, please feel free to contact our local dealer in your area.

OPERATION WARNING

- ⚠ THIS VEHICLE IS NOT A TOY AND CAN BE HAZARDOUS TO OPERATE.**
- ⚠ NEVER OPERATE THIS VEHICLE WITHOUT PROPER INSTRUCTION.**
- ⚠ THIS VEHICLE IS NOT FOR YOUTH UNDER 16 YEARS OLD.**
- ⚠ ALWAYS WEAR A HELMET.**
- ⚠ READ THIS OWNER'S MANUAL CAREFULLY.**
- ⚠ IT'S DANGEROUS TO DRIVE ON AN UNCLEAR ROAD CONDITION.**
- ⚠ TO LOWER YOUR SPEED WHEN DRIVING AT NIGHT.**
- ⚠ NEVER CONSUME ALCOHOL OR DRUGS BEFORE OR DURING RIDING.**
- ⚠ NEVER OPERATE THIS VEHICLE ON HILLS TOO STEEP.**
- ⚠ ALWAYS INSPECT YOUR VEHICLE EACH TIME YOU USE IT.**

SAFETY INFORMATION

- ⚠ Don't allow your child to ride.
- ⚠ Read all warning sticks on vehicle and follow the instruction.
- ⚠ Keep a safe distance between your vehicle and other vehicles.
- ⚠ Take a training course if you are a beginner.
- ⚠ This vehicle is designed to be operated only on level, off road surfaces, free of obstacles.
- ⚠ This vehicle is not equip with differential gears, do not make turns within high speed.
- ⚠ When operate this vehicle on public streets, follow all safety rules that required.

SPECIFICATIONS

MODEL TYPE	ATV-500
	500
DISPLACEMENT	499 cc
TYPE	4 Stroke, DOHC, 4 Valves, Liquid cooled.
STARTING	Electric
LUBRICATION	Dry sump with separate oil tank
TRANSMISSION	5 Speed with Reverse gears.
SPARK PLUG	NGK DCPR8E
BATTERY	12 volts, 9 Ah Maintenance free
OIL CAPACITY	2.5 L SAE 5W-40 or 10W-40 * JASO MA is recommended
FUEL TANK	11.0 Liter (2.9 gal)
OVERALL LENGTH	1900 mm (74.80 inches)
OVERALL WIDTH	1270 mm (50 inches)
OVERALL HEIGHT	1140 mm (44.88 inches)
SEAT HEIGHT	760 mm (29.92 inches)
WHEEL BASE	1310 mm (51.57 inches)
CLAIMED DRY WEIGHT	236 KG (519.2 lb)
BRAKE	Front: R/L Disc Brake Rear: Disc Brake
SUSPENSION	Front: Dual A-arm with fully adjustable rebound shocks. Rear: Swing arm with fully adjustable rebound shock Option: Front & rear adjustable damping with oil/gas reservoir.
FRONT TIRE	22 x 7 – 10
REAR TIRE	20 x 11 – 9 or 20 x 10 – 9

 **Manufacturer reserves the right to make change without notice.**

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.

Item	Frequency	Regular Service Mileage (KM)					
		200	1000	2000	3000	4000	5000
Engine Oil	R	I	R	I	R	I	R
Oil Filter	R		R		R		C
Spark Plug	I			I			I
Air Filter	CLEAN AND CHECK EACH 1000KM OR AFTER OFF-ROAD USE						
Carburetor	I		I		I		C,I
Driver Chain	CHECK AND LUBRICATION EVERY RIDE						
Suspension	I	I	I	I	I	I	I
Brake System	CHECK EVERY RIDE						
Tires Pressure	CHECK EVERY RIDE						
Tire Wear		I	I	I	I	I	I
Steering	I	I	I	I	I	I	I
Chassis Nuts · Bolts	I			I			I
Battery	I		I		I		I
Coolant		I	I	I	I	I	R

 **C:** Clean; **A:** Adjust; **R:** Replace; **C:** Clean; **I:** Inspect, Adjust, Verify, Lubricate.

PRE OPERATING INSPECTION

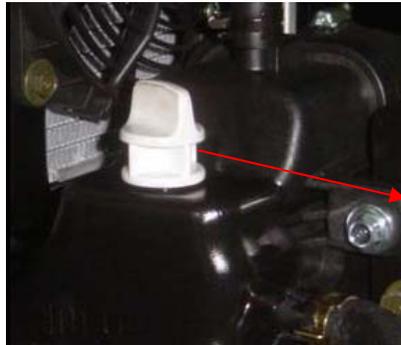
Inspect your vehicle before you ride it.

It only takes a few minutes to check and may save your life.

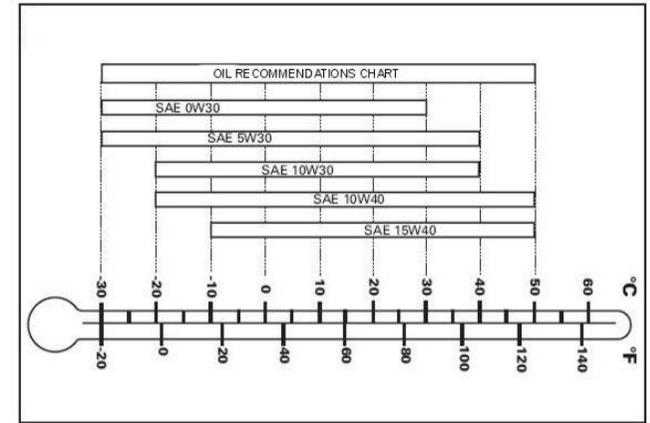
- ⚠ Check the tires condition and pressure.
- ⚠ Check the nuts, bolts and other fasteners.
- ⚠ Check the drive chain condition and slack.
- ⚠ Check the engine stop switch for good function.
- ⚠ Check the throttle for smooth opening and closing.
- ⚠ Check the fuel level in fuel tank
- ⚠ Check oil level in crankcase thru oil screen.
- ⚠ Check the coolant level in coolant reservoir.
- ⚠ Check break fluid to make sure it's sufficient and not contaminated.
- ⚠ Check the brake operation to see if there is any binding of the brake cables.
- ⚠ Check the ease of turning to the left and right of steering handle.
- ⚠ Check brake lever for effective braking. Try braking soon as you are driving off.

PRE OPERATING INSPECTION

Check and / or Refill Oil

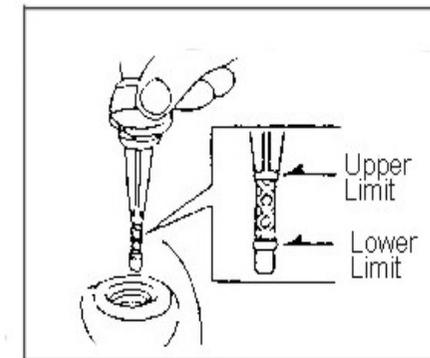


Oil Dipstick



⚠ CAUTIONS :

- ⊙ Be sure to have sufficient oil, check oil dipstick every ridding and the tighten dipstick properly.
- ⊙ Total oil capacity : **2.5 Liter**
- ⊙ Prescribed 4-stroke engine oil only, **JASO MA is strongly recommended.**
- ⊙ Select the proper viscosity of oil.
- ⊙ It would damage or burn down the engine parts if oil is insufficient.



PRE OPERATING INSPECTION

Check and refueling

Insert the key and turn to “open” position
And turn counter clock wise direction to open
the cap.

After refueling, insert the cap properly and
turn the key to “lock” position.

Pull out the key and check fuel cap to make
sure it's locked.



CAUTIONS :

- ⦿ Stop the engine for refueling.
- ⦿ Use unleaded gasoline with octane level 92 or higher.
- ⦿ Turn the gasoline cap counter clockwise to loose it, clockwise to tighten.
- ⦿ Avoid overfilling the gasoline, when refueling, it could cause a fire when the engine is hot.

PRE OPERATING INSPECTION

Tire pressure

CAUTIONS :

Recommended tire pressure:

On-road : 7 psi (0.49 kgf/cm²), Off-road 5 psi.

Max. pressure : 10 psi (0.7 kgf/cm²)

Min. pressure : 3.0 psi (0.245kgf/cm²)



Do not over inflate the tire pressure as indicated on the tire.

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 with new one.

Please check the marking on tires for detail specification.

Front and Rear Shock Absorbers

-  Apply pressure on both front steering handle and seat to check the function of front and rear shock absorbers.

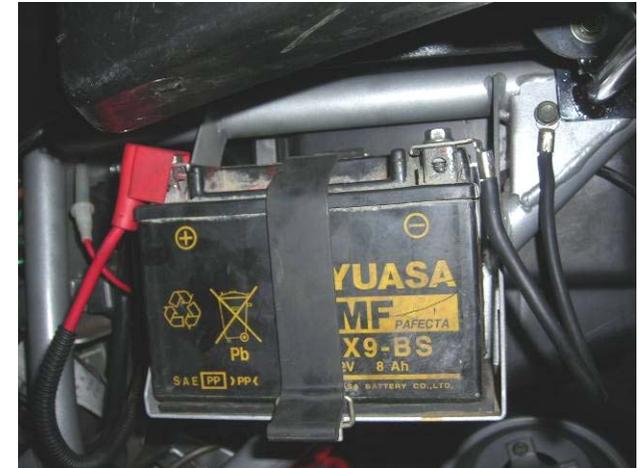
PRE OPERATING INSPECTION

Battery

This vehicle is equipped with a maintenance free battery that requires no maintenance.

Remove and Check

- ❗ Pull the rubber strap to release the battery..
- ❗ Remove negative and positive terminals (negative first).
- ❗ Remove battery and check voltage.
- ❗ Normal voltage : 12V and above
- ❗ Keep terminals clean constantly.
- ❗ Charge the battery base on the instruction that printed on battery.



OPERATION MAIN SWITCH



OFF

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



ON

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



OPERATION

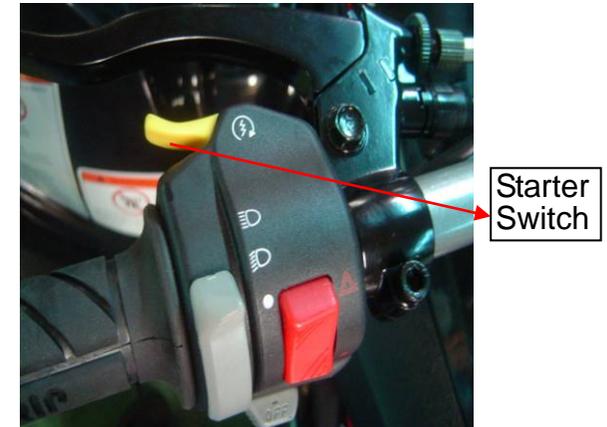
ELECTRIC STARTER

Grip the brake lever then push the starter switch to cranks engine

⚠ CAUTIONS :

When cranks the engine:

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



OPERATION (EC)

SIGNAL LIGHT SWITCH

⇒ Right signal light flashing indicates turning to the right.

⇐ Left signal light flashing indicates turning to the left.

⚠ Push switch to turn off lights.

⚠ CAUTIONS:

Always turn on signal lights before turning.

Turn on main switch and press down the horn button, the horn will sound.

HORN BUTTON



Horn Button

Signal Light Switch

OPERATION (US) ENGINE STOP SWITCH

This switch is located on the left handle and can be used for emergency or safety switch.



Engine can start-up and operate



Engine can start-up and operate



OPERATION (EC)

HEADLIGHT BEAM SWITCH

 Low beam

For normal condition.

 High beam

For farther lighting.

HAZARD WARNING SWITCH

 HAZARD

Push switch and all indicator lights will start blinking together.



Beam Switch

Hazard Switch

**OPERATION
INSTRUMENT PANEL (US)**



OPERATION INSTRUMENT PANEL (EC)



OPERATION

GEAR SHAFT

Reverse – In neutral position, pull the clutch lever, press down the gear pedal to 1st gear. Hold the clutch lever and pull “Reverse lever” to right side then press gear pedal down again to engage reverse gear.

Slowly release the clutch lever to let the transmission activate.

Forward

In reverse gear, pull the clutch level then pull up gear pedal up one time to engage 1st gear
In neutral position, ull the clutch lever then press down the pedal to 1st gear or up for 2nd to 5th gear.

Pull the clutch lever then step down the pedal from higher gear to lower gear or neutral.



Reverse
Lever



Gear Pedal

OPERATION

GEAR SHAFT

Gear selection shows as right picture.

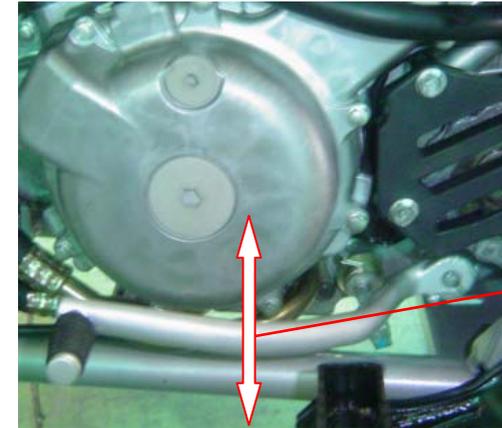
The instrument panel shows “**N**” for neutral and “**R**” for reverse.

CAUTION:

Always completely stop the vehicle and apply the brake prior to moving the gear shaft.

Totally stop vehicle when you are from reverse to forward.

Before moving vehicle in reverse, ensure the path behind is clear of obstacles or bystanders. Remain seated.



5
4
3
2
N
1/R

OPERATION

FRONT / REAR BRAKE

The foot brake pedal is located on the right side in front of the foot rest. When step on the brake pedal, 4 wheels will stop at same time

The hand break lever effect on the front wheels only.



PARKING BRAKE LEVER

Pull the parking brake lever clockwise will perform brake function.

Push back the parking brake lever to release.



OPERATION

FRONT BRAKE FLUID LEVEL

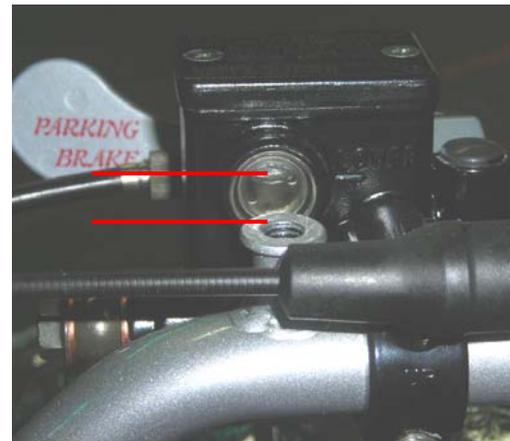
Check the fluid level :

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.

⚠ Use only DOT 4 or DOT 3 brake fluid.



OPERATION

ENGINE START-UP & CAUTIONS

⚠ Check oil and fuel prior to start-up.

1. Set the gear to neutral and throttle lever at the “close” state.
2. Use key to turn “Main Switch” on.
3. Pull right break lever and push electric starter switch.

⚠ CAUTIONS :

**Release the starter button immediately after engine start-up.
Do not pressing the button again as engine is running otherwise
engine may be damaged.
Start the engine at an open area to avoid emission poisoning.**

4. In case the engine will not start after the starter running 3 ~ 4 seconds, push the throttle lever slightly, then try again and engine should start.
 5. Use choke lever on the bottom of the left switch if the temperature is low and difficult to start.
- ⚠ When transmission gear not in neutral, Clutch lever must fully pull back, otherwise the starter motor wouldn't function.

OPERATION

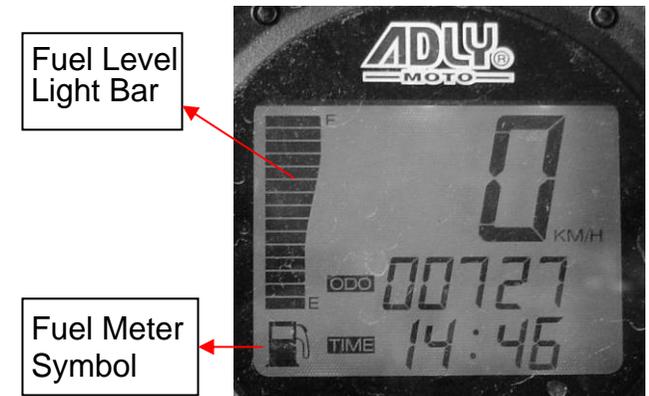
FUEL METER

The fuel meter is located on the left side of the instrument panel.

When the tank is full, the level light bars are shown at top. During the fuel consuming, light bars cease from top then down to bottom.

It is recommended to add fuel when the fuel meter symbol starts to flashing.

⚠ There's about 2.0L fuel remains in the tank when the fuel symbol starts to flashing.



OPERATION SHOCKS ADJUSTMENT

Rebound

Loosen the upper nut on damping house by using the specify tool.

Adjust lower nut to increase or decrease spring preload.

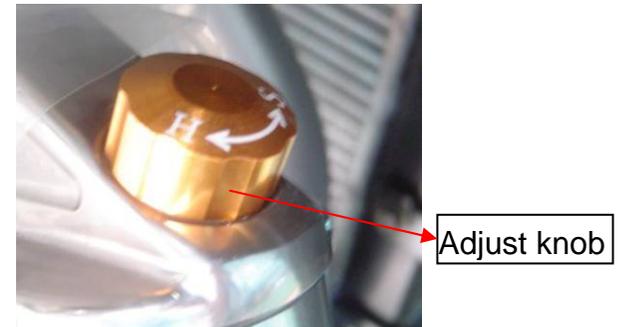
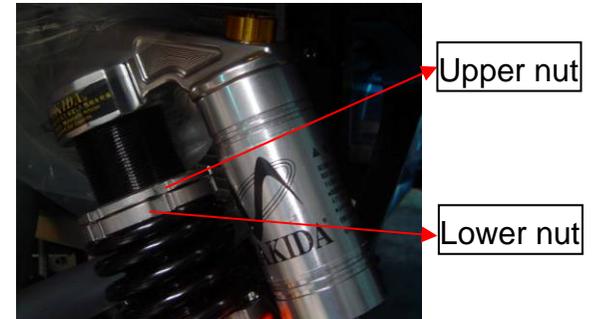
Tighten the upper nut on damping house by using the specify tool.

Damping (Optional)

Turn the adjust knob on the top of separated oil/gas reservoir.

Turn the knob toward **S** to soften the damper.

Turn the knob toward **H** to harden the damper.



**OPERATION
BREAK IN**

During the first 500 kilometres do not operate the vehicle at full throttle or maximum engine revs.

Do not put the engine under excessive load.

The running in process will greatly increase the life and long term power of the engine

**If you experience any technical difficulties,
please contact your local ADLY dealer
as soon as possible for assistance**

MAINTENANCE

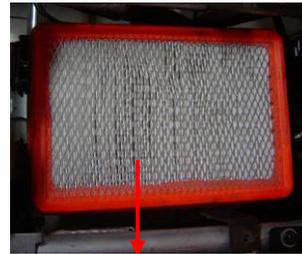
Clean and replace air filter

Air filter is located under seat.
Move the seat to find air filter house.

⚠ CLEAN AND CHECK FILTER EACH 1000KM OR AFTER OFF-ROAD USE. REPLACE AIR FILTER ELEMENT YEARLY.



Air Filter



Filter Element

Oil Change

Remove oil drain plug and dipstick to draining engine oil.

Tighten oil drain plug and add **1.5L** engine oil to oil tank.

Start the engine about 30 second then stop.
Add another **1.0L** oil to oil tank and tighten the oil dipstick.

⚠ Change oil when engine is warm.

Replace Oil Filter

Oil filter house is located on right side of engine case.

Remove oil filter house for replacing filter.

⚠ EACH 2000KM WHEN CHANGE OIL, REPLACE FILTER, TOO.



Oil Drain Plug



Oil Filter House

MAINTENANCE

DRIVE CHAIN

Check and Lubricate

Before operating the vehicle, always inspect the drive chain.

Check the free play of drive chain and adjust if necessary.

Never operate this vehicle with the drive chain too loose or too tight as severe damage to the drive components can occur.

Check for damage or missing O-ring or rollers. Do not brush chain.

Lubricate only with an approved O-ring chain lubricant.

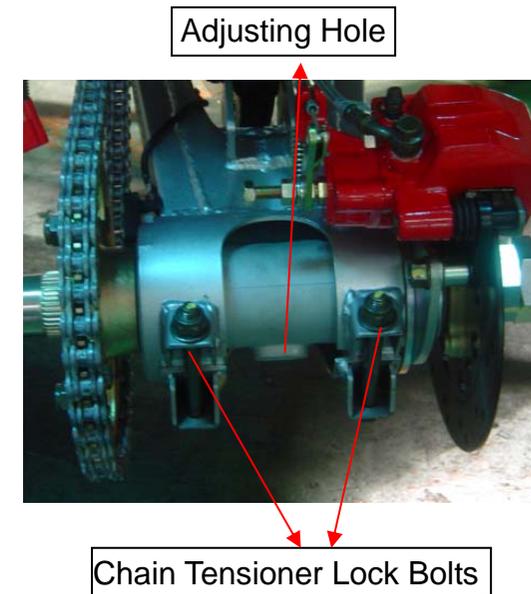
Adjustment

Loosen chain tensioner lock bolts for adjustment.

Insert a screw driver to adjustment hole and move up-down to change free play.

The deflection should be between 10 and 20 mm (3/8 and 3/4 in).

Tighten lock bolts after properly adjustment.



MAINTENANCE

PARKING BRAKE

Parking brake was co-instructed with rear brake caliper but control by parking brake lever and wire separate.

Check parking before ride.

Adjust parking brake if your ATV slipping or can be easily moving even the brake lever was engaged.

Adjustment

Put parking lever on neutral (L side).

Loosen the fixture nut and tune-in the adjustment bolt until you can feel it is slightly touched.

Tune-out the adjustment bolt half tune then hold it and tight the fixture nut.

Recheck the parking brake effectiveness.



Parking brake Lever



Rear Brake Caliper

Adjustment bolt

Fixture Nut

MAINTENANCE

Coolant level

With vehicle on a level surface, coolant should be between **MIN** and **MAX** level marks stamped on coolant reservoir.

CAUTIONS :

Check coolant level while engine is cold.
Never add coolant in cooling system when engine is hot.
If the coolant is added in the coolant reservoir, check the level in the radiator too. Add coolant if necessary.



CORRECT WAY OF DRIVING

START OF DRIVING

Press the throttle lever slowly to control your speed.

- ⚠ Acceleration is to increase the speed.
Slowly press the throttle lever while driving on a slope. It will activate the engine power.
- ⚠ Deceleration is to decrease the speed.
Release the lever will do.
- ⚠ This vehicle does not equip with differential gears. The rider must learn to move his weight and control the throttle not to thumb over.



Throttle Lever

CORRECT WAY OF DRIVING

STOP OF THE VEHICLE

Approaching to the parking point:

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

Complete stop:

Stop the engine by turns the main switch to “OFF”.

 **Don't park on uneven ground to avoid tipping over.**

CAUTIONS :

Don't turn the main switch or engine stop switch to “OFF” during operation.

BRAKE-IN PROCESS

During the first 500KM of riding, do not run the vehicle more then 60km/hr or approach maximum RPM of the engine.

 **The brake-in process will greatly increase the lifetime and long term power of the engine.**

ABNORMALITIES AND TROUBLE SHOOTING

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

Check is the engine stop switch was in the RUN position.

Check the gas tank is fuel are available and sufficient.

Whether the procedure for engine start up is correct.

- ⚠ Try to diagnose these malfunctions yourself first.**
- ⚠ Contact the local dealer as soon as possible for checking on any abnormality of your vehicle.**

VIN NUMBER and IDENTIFICATION

Please record the VIN and engine number for further reference.

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

FRAME NO. RFL



FRAME NUMBER

The engine number is engraved on top middle of right crankcase.

ENGINE NO. _____



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 tire or in the owner's manual.
- 3. Engine oil (4 stroke, SAE 5W/40 or 10W/40) is enough.
- 4. Battery is installed properly.
- 5. All brakes 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 in the tool box.
- 10. Make sure that the bolts and nuts are fastened properly according to the manual.

MAINTENANCE and SERVICE RECORD

P.D.I.	200 KM	1,000 KM
NOTES : _____ _____ _____	NOTES : _____ _____ _____	NOTES : _____ _____ _____
DEALER :	DEALER :	DEALER :
DATE :	DATE :	DATE :
2,000 KM	3,000 KM	4,000 KM
NOTES : _____ _____ _____	NOTES : _____ _____ _____	NOTES : _____ _____ _____
DEALER :	DEALER :	DEALER :
DATE :	DATE :	DATE :

MAINTENANCE and SERVICE RECORD

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

MAINTENANCE and SERVICE RECORD

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

SPEEDOMETER OPERATION INSTRUCTIONS

XR-5M
DIGITAL LCD METER

INSTRUCTION



MARK MEANING:

NOTE You could get the installation details from the information behind the mark.

▲ Some processes must be followed to avoid the affection caused by wrong installation.



1 Basic function instruction

Speedometer

- Display range: 0--199 km/h.
- Display unit: 1 km/h.

Fuel symbol

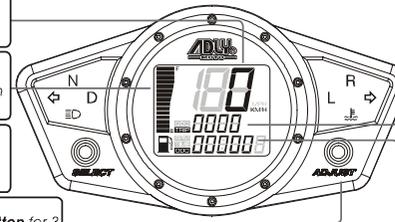
- Display range: 15 levels.
- The fuel reserve symbol begins to flash if only 2 grids left.

Speed unit switch

- In main screen, hold down the **Select** button and then press the **Adjust** button to switch the speed unit.

Trip reset

- Trip screen, press down the **Adjust** button for 3 seconds to reset the trip meter.



Trip meter

- Display range: 0--999.9 km, reset automatically after 999.9 km.
- Display unit: 0.1 km.

Odo meter

- Display range: 0--99999 km, reset automatically after 99999 km.
- Display unit: 1 km.

Clock

- 24 H.

Tachometer

- Display range: 0--18,000 RPM.
- Display unit: 100 RPM.

2 The main screen function switch instruction



In main screen, press the **Select** button to switch the odometer to tachometer.



In main screen, press the **Adjust** button to switch the odometer to trip meter.



In main screen, press the **Select** button to switch the tachometer to clock.



In main screen, press the **Select** button to switch the clock to the odometer.



NOTE The meter won't display both odometer at the same time. In this case, you can switch the tachometer or clock to odometer only when the trip meter is displayed.



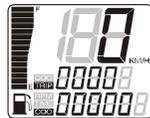
In main screen, press the **Adjust** button to switch the trip meter to odometer.



The main screen.

NOTE The meter won't display both odometer at the same time. In this case, you can switch the trip meter to the odometer only when the tachometer or clock is displayed.

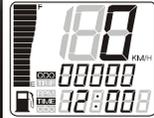
3 The tire circumference setting (Please change the setting when changing the tire)



In main screen, hold down the **Select button** for 3 seconds to enter the tire circumference and sensor points setting.

⚠ Please measure the tire circumference from the tire you install the magnet on before making the setting.
Please make sure the input number is correct, or the speed displayed will be wrong!

Or



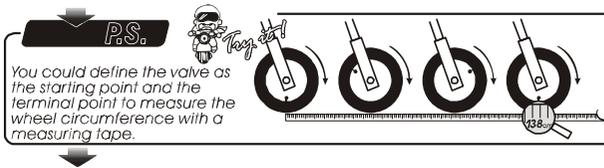
In the screen of odometer with RPM or clock, hold down the **Adjust button** for 3 seconds to enter the tire circumference and sensor points setting.



EX. The tire circumference is 1,380 mm.
Press the **Adjust button** to choose the number you want to set.
EX. Now the tire circumference is 1,680 mm, and the sensor point is 1.

⚠ Now the tire circumference setting is flashing!

NOTE The tire circumference setting range : 0~2,999 mm. Adjust unit : 1 mm.



P.S.
You could define the valve as the starting point and the terminal point to measure the wheel circumference with a measuring tape.



Press the **Select button** to change the setting number.
NOTE The setting order is from left to right 1680-1.



Press the **Adjust button** to move to the sensor point setting.
EX. The setting is changed from 1,680 mm to 1,380 mm.



Press the **Select button** to input the number you want to set.

⚠ Now the sensor point setting number is flashing!

NOTE The sensor point setting range: 1~6 points.



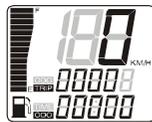
Press the **Adjust button** to return to the main screen.
EX. The sensor point setting is changed from 1 to 6.



The main screen.



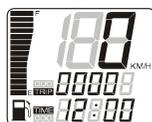
4 The clock setting



In main screen, press the **Mode button** to switch the odometer to clock.



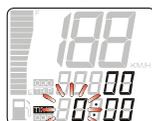
Press the **Set button** to enter the second setting.
EX. The minute is changed from 0 to 1.



In the clock screen, hold down the **Mode button** for 3 seconds to enter the clock adjustment screen.



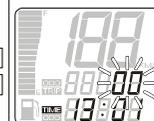
Press the **Mode button** to reset the second to zero.
▲ Now the second is flashing!



Press the **Mode button** to make the setting.
EX. The time is 00:00.

▲ Now the hour number is flashing!

NOTE This is a 24H clock.



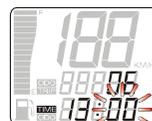
Press the **Set button** to back to the main screen.
EX. The second is changed from 12 to 0.



Press the **Set button** to move to the minute setting.
EX. The hour is changed from 0 to 13.



The clock screen.



Press the **Mode button** to make the setting.

▲ Now the minute number is flashing!





ATV-500/450
OWNER'S MANUAL