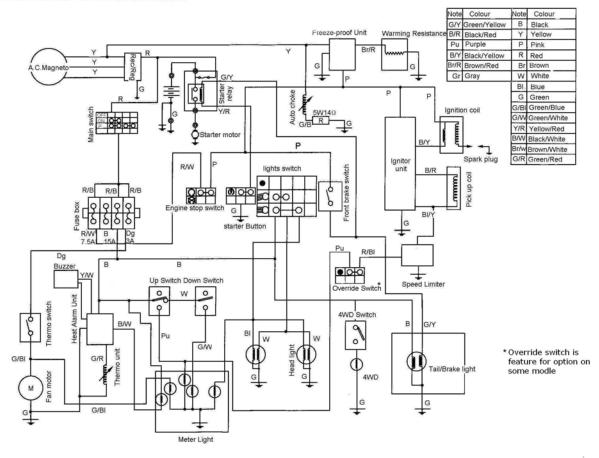
CHAPTER 8 ELECTRICAL

8.1	WIRING DIAGRAM
8.2	PARTS INSPECTION AND SERVICE
8.3	BATTERY
8.4	IGNITION SYSTEM
8.5	CHARGING SYSTEM
8.6	ELECTRICS STARTING SYSTEM
8.7	COOLING SYSTEM
8.8	LIGHTING SYSTEM
8.9	REVERSE LIMIT SYSTEM
8.10	GEAR POSITION INDICATOR SWITCH TEST
8.11	SPEEDOMETER SYSTEM

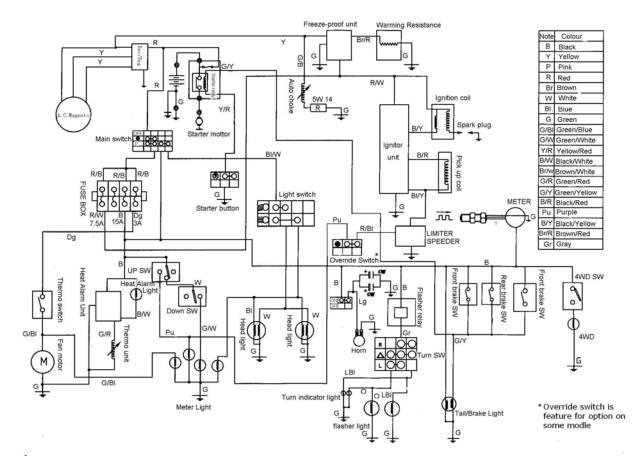
8.12 MAIN SWITCH AND HANDLE SWITCH

8.1 WIRING DIAGRAM

ATV WIRING DIAGRAM FOR 2x4 4x4 USA MODEL



ATV WIRING DIAGRAM FOR 2X4 4X4 '04 '05 DEMON EUROPE MODEL



PARTS INSPECTION AND SERVICE

HEADLIGHT LAMP REPLACEMENT

- A. 'O5 model
- 1. Remove the cover 1 from the ATV.
- 2. Remove the bulb socket with the wire harness from the backside of the lens unit by turn the socket CCW.
- 3. Remove the bulb from the bulb socket carefully.
- 4. Replace the bulb with a new one
- (12V 35W/35W), Align the tab with the groove, locating it properly and securely.
- 5. Reinstall the bulb socket, Align the tab with the groove, locating it properly and securely.
- 6. Reinstall the cover.
- 7. Adjust the aim.

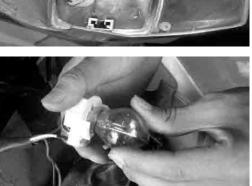
B. Headlight on handlebar

- 1. Remove the front cover of the handlebar from the ATV.
- 2. Remove the bulb socket with the wire harness from the backside of the lens unit by turn the socket CCW.
- 3. Remove the bulb from the bulb socket carefully.
- 4. Replace the bulb with a new one (12V 35W/35W), Align the tab with the groove, locating it properly and securely.
- 5. Reinstall the bulb socket, Align the tab with the groove, locating it properly and securely.
- 6. Reinstall the cover.
- 7. Adjust the aim.









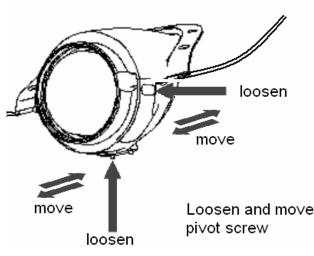
C. '04 and early model

- 1. Remove lens unit from the headlight.
- 2. Remove the bulb socket with the wire harness from the backside of the lens unit by turn the socket CCW.
- 3. Remove the bulb from the bulb socket carefully.
- 4. Replace the bulb with a new one (12V 35W/35W), Align the tab with the groove, locating it properly and securely.
- 5. Reinstall the bulb socket, Align the tab with the groove, locating it properly and securely.
- 6. Reinstall the cover.
- 7. Adjust the aim.

HEADLIGHT ADJUSTMENT

- 1. The headlight beam can be adjusted vertically (all models) and horizontally (except the light on handlebar).
- 2. Place the vehicle on a level surface with the headlight approximately 25'(7.6m) from a wall.
- 3. Measure the distance from the floor to the center of the headlight and make a mark on the wall at the same height.
- 4. Start the engine and turn the headlight switch to high beam.
- 5. Observe headlight aim. The most intense part of the headlight beam should be aimed 2' (51mm) below the mark placed on the wall in step 2. NOTE: Riding weight must be included on the seat.
- 6. Loosen but not remove pivot bolt/ screw and adjust beam to desired position.
- 7. Tighten nut and bolt / screw.

'05 model



Headlight on handlebar

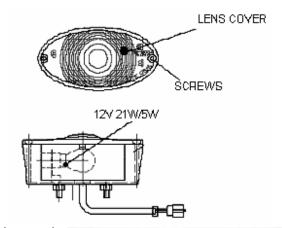


TAILLIGHT / BRAKELIGHT LAMP REPLACEMENT

- From the rear of the taillight remove two screws holding lens cover in place and remove lens cover.
- 2. Remove lamp and replace it with recommended lamp.
- 3. Reinstall the lens cover removed in step 1.
- 4. Test the taillight / brake light.

INDICATOR LAMP REPLACEMENT

- 1. Disconnect light from harness, depress locking tabs and remove from pod.
- 2. Install new light and reassemble pod





Depress locking tabs to remove

8.3 BATTERY

Battery electrolyte is poisonous. It contains sulfuric acid. Serious burns can result from contact with skin, eyes or clothing Antidote:

External: Flush with water.

Internal: Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg, or vegetable oil. Call physician immediately.

Eyes: Flush with water for 15 minutes and get prompt medical attention.

Batteries produce explosive gases. Keep sparks, flame, cigarettes, etc. away. Ventilate when charging or using in an enclosed space. Always shield eyes when working near batteries.

KEER OUT OF REACH OF CHILDREN

WARNING: The gases given off by a battery are explosive. Any spark or open flame near a battery can cause an explosion which will spray battery acid on anyone close to it. If battery acid gets on anyone, wash the affected area with large quantities of cool water and seek immediate medical attention.

To ensure maximum service life and performance from a new battery, perform the following steps. **NOTE:** Do not service the battery unless it will be put into regular service within 30 days. After initial service, add only distilled water to the battery. Never add electrolyte after a battery has been in service.

NOTE: New Battery must be fully charged before use.

- 1. Remove vent plug from vent fitting.
- 2. Fill battery with electrolyte to upper level marks on case.
- 3. Set battery aside and allow it to cool and stabilize for 30 minutes.
- 4. Add electrolyte to bring level back to upper level mark on case.

NOTE: This is the last time that electrolyte should be added. If the level becomes low after this point, add only distilled water.

- 5. Charge battery at 1 /10 of its amp /hour rating. Examples: 1 /10 of 14 amp battery = 1.4 amp; 1/10 of 7 amp battery = 0.7 amp (recommended charging rates).
- 6. Check specific gravity of each cell with a hydrometer to assure each has a reading of 1.270 or higher.

BATTERY INSPECTION / REMOVAL

The battery is located under the left rear fender. Inspect the battery fluid level. When the battery fluid nears the lower level, the battery should be removed and distilled water should be added to the upper level line. To remove the battery:

- 1. Disconnect holder strap and remove cover.
- 2. Disconnect battery negative () (black) cable first,

followed by the positive (+) (red) cable.

CAUTION

Whenever removing or reinstalling the battery, disconnect the negative (black)



cable first and reinstall the negative cable last!

- Disconnect the vent hose.
- 4. Remove the battery.
- 5. Remove the filler caps and add *distilled water only* as needed to bring each cell to the proper level.

Do not overfill the battery.

To refill use only distilled water. Tap water contains minerals which are harmful to a battery. Do not allow cleaning solution or tap water to enter the battery. It will shorten the life of the battery.

5. Reinstall the battery caps.

BATTERY INSTALLATION

- 1. Clean battery cables and terminals with a stiff wire brush. Corrosion can be removed using a solution of one cup water and one tablespoon baking soda. Rinse with clean water and dry thoroughly.
- 2. Reinstall battery, attaching positive (+) (red) cable first and then the negative (-) (black) cable.
- 3. Install clear battery vent tube from vehicle to battery vent.

WARNING:Vent tube must be free from obstructions and kinks and securely installed. If not, battery gases could accumulate and cause an explosion. Vent should be routed away from frame and body to prevent contact with electrolyte. Avoid frame, corrosion will occur.

- 4. Route cables so they are tucked away in front and behind battery.
- Reinstall battery cover and holder strap.
 Do not start the engine with the battery disconnected. Vehicle lamps will burn out if battery is disconnected during vehicle operation. Also, the reverse speed limiter can be damaged.

BATTERY TESTING

Whenever a service complaint is related to either the starting or charging systems, the battery should be checked first.

Following are three tests which can easily be made on a battery to determine its condition: OCV Test, Specific Gravity Test and Load Test.

Open Circuit Voltage Test

Battery voltage should be checked with a digital multitester. Readings of 12.6 or less require further battery testing and charging.

NOTE: Lead acid batteries should be kept at or near a full charge as possible.

Load test

CAUTION: Remove spark plug high tension leads and connect securely to engine ground before proceeding.

NOTE: This test can only be performed on machines with electric starters. This test cannot be performed with an engine or starting system that is not working properly.

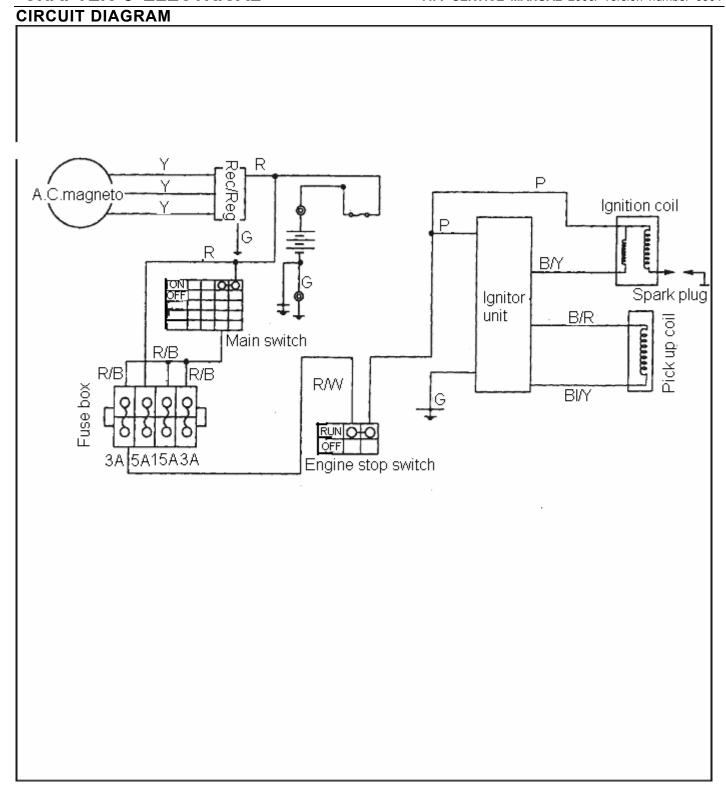
A battery may indicate a full charge condition in the OCV test and the specific gravity test, but still may not have the storage capacity necessary to properly function in the electrical system. For this reason, a battery capacity or load test should be conducted whenever poor battery performance is encountered. To perform this test, hook a multitester to the battery in the same manner as was done in the OCV test. The reading should be 12.6 volts or greater. Engage the electric starter and view the registered battery voltage while cranking the engine. Continue the test for 15 seconds. During this cranking period, the observed voltage should not drop below 9.5 volts. If the beginning voltage is 12.6 or higher and the cranking voltage drops below 9.5 volts during the test, replace the battery.

8.4 IGNITION SYSTEM

IGNITION SYSTEM TROUBLESHOOTING

No Spark, Weak or Intermittent Spark

- Spark plug gap incorrect
- Fouled spark plug
- Faulty spark plug cap or poor connection to high tension lead
- Related wiring loose, disconnected, shorted, or corroded
- Engine stop switch or ignition switch faulty
- Terminal board or connections wet, corroded
- Poor ignition coil ground (e.g. coil mount loose or corroded)
- Faulty stator (measure resistance of all ignition related windings)
- Incorrect wiring (inspect color coding in connectors etc.)
- Faulty ignition coil winding (measure resistance of primary and secondary)
- Worn magneto (RH) end crankshaft bearings
- Sheared flywheel key
- Flywheel loose or damaged
- Trigger coil air gap too wide (where applicable) should be 0.016-0 .030" (0. 4-0.75 mm)
- Excessive crankshaft run out on magneto (RH) end should not exceed 0.005" (0.13mm)
- Faulty CDI module



IF THE IGNITION SYSTEM FAILS TO OPERATE

Procedure

Check:

1. Fuse (Main)

2. Battery

3. Spark plug

4. Ignition spark gap

5. Spark plug cap resistance

6. Ignition coil

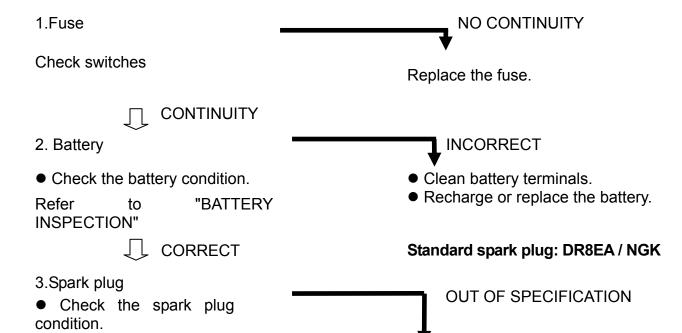
7. Pickup coil resistance

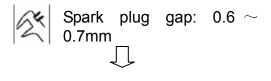
8. Main switch

9. Engine stop switch

10. Wiring connection

(entire ignition system)





Check the spark plug

Check the spark plug gap.

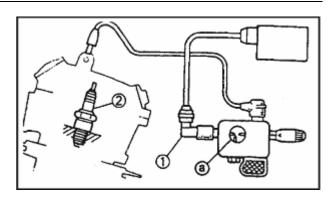
type.

Repair or replace the spark plug



4.Ignition spark gap

- Disconnect the spark plug cap from the spark plug
- Connect the ignition tester 1 as shown.
- 2 Spark plug
- ●Turn the main switch to "ON".
- Check the ignition spark gap .
- ●Check the spark by pushing the starter switch, and increase the spark gap until a misfire occurs.

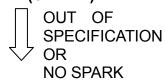


MEETS SPECIFICATION

The ignition system is not faulty.



Minimum spark gap: 6mm (0.24 in)

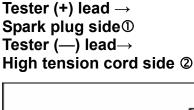


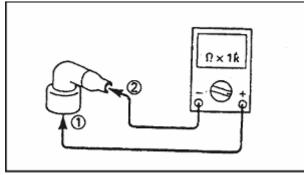
5. Spark plug cap resistance

- Remover the spark plug cap.
- •Connect the pocket tester (ΩX1 k) to the spark plug cap.

NOTE:

- When removing the spark plug cap. do not pull the spark plug cap from high tension cord.
- ●Remove→Turning counterclockwise
- ■Connect→Turning clockwise.
- Check the high tension cord when connecting the spark plug cap.
- When connecting the spark plug cap, cut the high tension cord about 5mm.







Spark plug cap resistance: **5KΩ(20 °C)**



OUT OF SPECIFICATION

Replace the spark plug cap



6. Ignition coil resistance

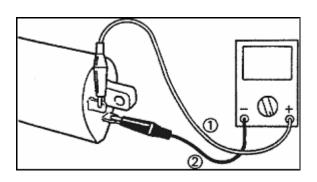
Disconnect the ignition coil connector from the wire harness.

- Connect the pocket tester (1) to the ignition coil.
- Check if the primary coil has the specified resistance.

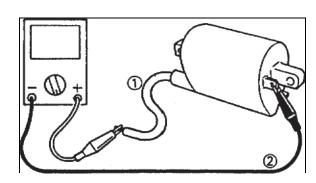


Primary coil resistance: **3.6-4.8Ω(20** °C)

Tester (+) lead **Pink Terminal** Tester () lead B/Y **Terminal**



Tester (+) lead Spark plug lead Tester (—) lead **Pink Terminal**



- Connect the pocket tester $(\Omega \times 1k)$ to the ignition coil.
- Check the secondary has the specified resistance



Secondary coil resistance: **10.7-14.5 KΩ (20℃)**

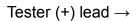


BOTH MEET **SPECIFICATION** **OUT OF SPECIFICATION**

Replace the ignition coil.



- 7. Pickup coil resistance
- Disconnect the pickup coil coupler from the wire harness.
- •Connect the pocket tester (Ω 100) to the pickup coil coupler.

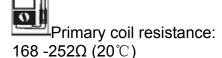


BI/Y Terminal ①

Tester (-) lead→

B/R Terminal ②

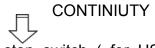
 Check the pickup coil has the specified resistance.





8.Main switch

CHECK SWITCHES

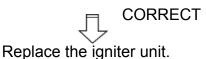


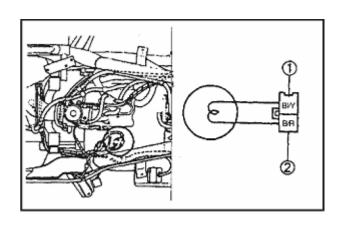
9. Engine stop switch (for USA model)



10. Wiring connection

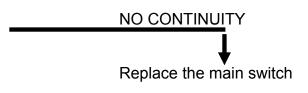
Check the connection of the entire ignition system Refer to "CIRCUIT DIAGRAM".

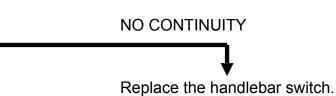


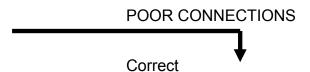




Replace the pickup coil.

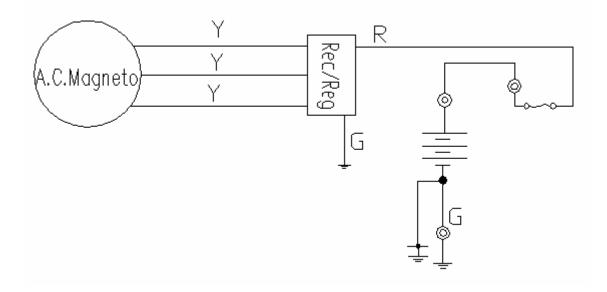






8.5 CHARGING SYSTEM

CHARGING SYSTEM CIRCUIT DIAGRAM

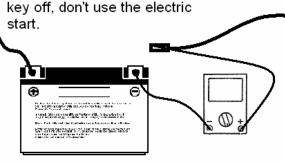


CURRENT DRAW-KEY OFF

CAUTION: Do not connect or disconnect the battery cable or ammeter with the engine running. Damage will occur to light bulbs and speed limiter.

Connect an ammeter in series with the negative battery cable. Check for current draw with the key off, if the draw is excessive, loads should be disconnected from the system one by one until the draw is eliminated. Check component wiring as well as the component for partial shorts to ground to eliminate the draw.

Current draw key off: Maximum of 0.01DCA(10mA)



CHARGING SYSTEM

Procedure

Check:

- 1. Fuse (Main)
- 2. Battery
- 3. Charging voltage

4.Stator coil resistance5.Wiring system (entire charging system)

1. fuse

2. Battery

Check the battery condition.

Refer to "BATTERY INSPECTION"

3.Charging voltage

Connect the engine tachometer to the spark plug lead.

●Connect the pocket tester (DC20V) to the battery

Test (+) lead→

Battery (+) terminal ①

Tester (-) lead→

Battery (-) terminal ②

Measure the battery terminal voltage.

start the engine and accelerate to about 5,000rpm

check the terminal voltage

Measured voltage-terminal Voltage:

0.2-2.5V up

NOTE: Use a fully changed battery.



NO CONTINUITY

Replace the fuse

INCORRECT

Clean battery terminals
Recharge or replace the battery

MEETS SPECITICATION

The charging circuit is not faulty
Replace the battery

OUT OF SPECICATION

4. Starter coil resistance

Remove the A.C. magneto coupler from wire harness

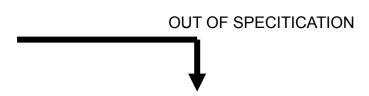
Connect the pocket tester ($\Omega X1$) to the stator coil

Tester (+) lead –yellow terminal

Tester (-) lead –yellow terminal

Measure the stator coil resistance

Stator coil resistance $0.8-1.0\Omega$ (20°C)

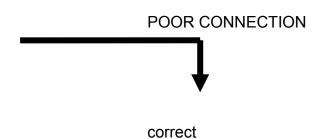


Replace the stator coil

MEETS SPECIFICATION



5. Wiring connection check the entire charging system for connections Refer to "CIRCUIT DIAGRAM"

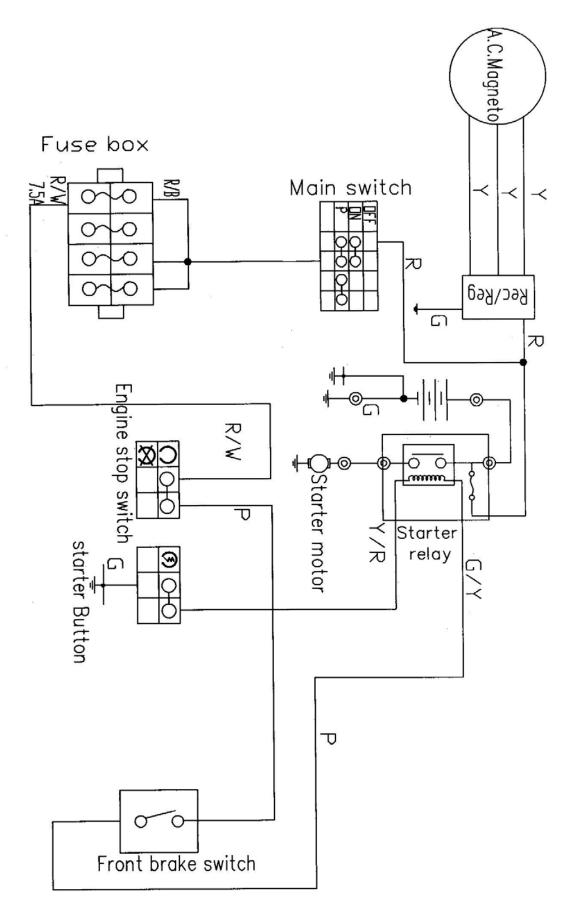


CORRECT

Replace the rectifier/regulator

8.6 ELECTRICS STARTING SYSTEM

DIAGRAM



TROUBLESHOOTING

IF THE STARTER MOTOR FAILS TO OPERATE

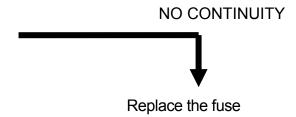
Procedure

Check:

- 1. Fuse (Main)
- 2. Battery
- 3. starter motor
- 4. starter relay
- 5. starting circuit cut-off relay
- 6. main switch
- 1. fuse

"CHECKING SWITCHES" refer to section

- 7. Engine stop switch
- 8. front/rear brake switch
- 9. starter switch
- 10. wiring connection (entire starting system)



2. Battery Check the battery condition. Refer to "BATTERY INSPECTION" section in CHAPTER 3



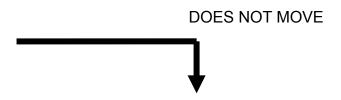
INCORRECT

Clean battery terminals Recharge or replace the battery

3. Starter motor

Connect the battery positive terminal and starter motor cable using a jumper lead.

Check the starter motor operation



Repair or replace the starter motor

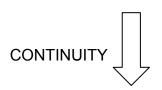
4. Starter relay

- Disconnect the relay unit coupler from the wire harness.
- •Connect the pocket tester (Ωx1) and battery (12V) to the relay unit coupler terminals.

Battery (+) lead→ Green/Yellow terminal ① Battery (-) lead→ Yellow/Red terminal ②

Check the starter relay for continuity.

Test (+) lead \rightarrow 3 terminal Test (-) lead → ④ terminal



5. Starting circuit cut-off relay

- Disconnect the starting circuit cut-off relay coupler from the wireharness.
- •Connect the pocket tester (Ωx1) and battery (12V) to the starting circuit cut-off relay coupler terminals.

Battery (+) lead→ terminal ② Battery (-) lead→ terminal ④

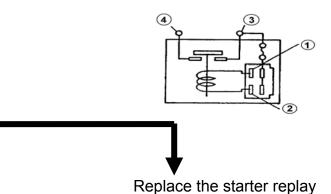
 Check the starting circuit cut-off relay for continuity.

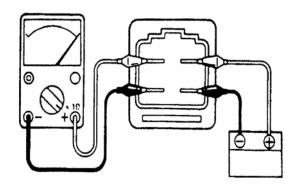
Test (+) lead \rightarrow ① terminal Test (-) lead \rightarrow 3 terminal



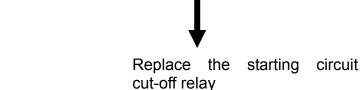
A wire used as a jumper lead must have the equivalent capacity as that of the battery lead or more, otherwise it may burn.

This check is likely produce sparks, so be sure that no flammable gas or fluid is in the vicinity









6. Main switch CHECK SWITCHES



7. Engine stop switch



8 Front /rear brake switch

CHECKING SWITCHES



9. Starter switch

CHECKING SWITCHES



10. Wiring connection

Check the connections of the entire starting system.

Refer to "CIRCUIT DIAGRAM

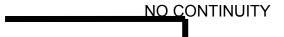
NO CONTINUITY



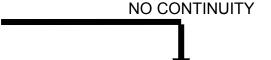
Replace the main switch



Replace the handlebar switch



Replace the brake switch



Replace the handlebar switch

POOR CONNECTION



8.7 COOLING SYSTEM

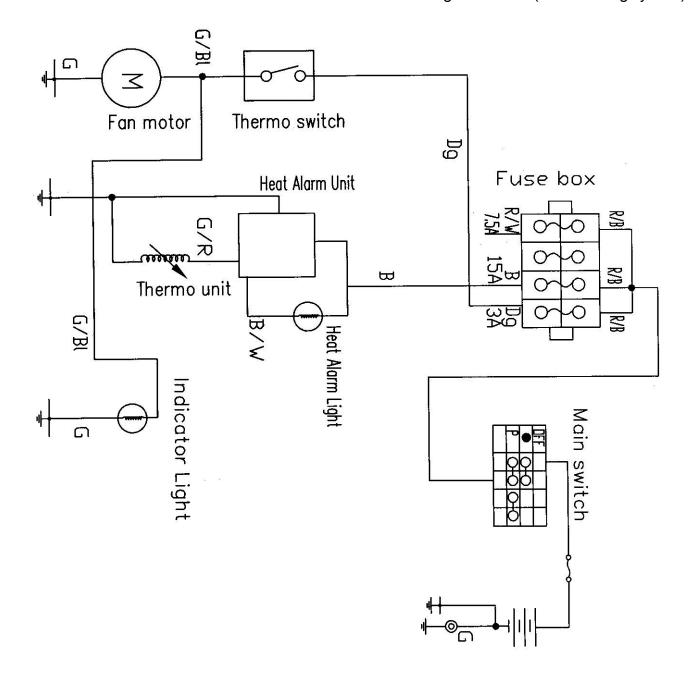
IF THE FAN MOTOR FAILS TO TURN

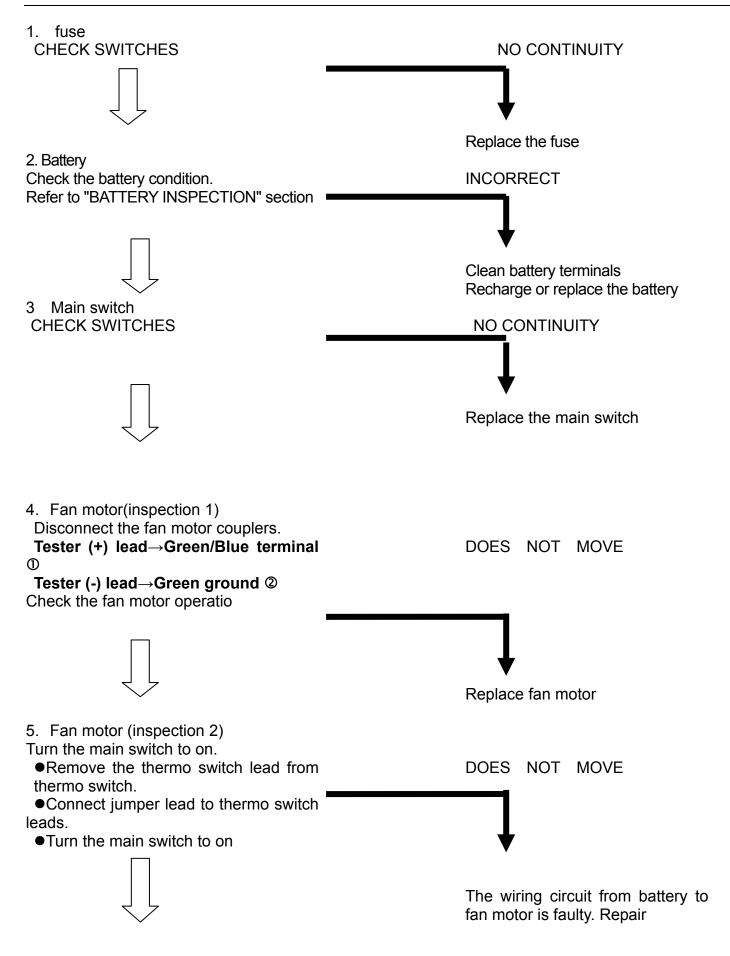
Procedure

Check:

- 1. Fuse (Main, Fan)
- 2. Battery
- 3. Main switch

- 4. Fan motor (inspection)
- 5. Thermo switch
- 6. Wiring connection (entire cooling system)



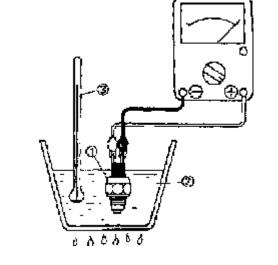


6. Thermo switch

Remove the thermo switch from the radiator.

- Connect the pocket tester ($\Omega X1$) to the thermo switch ①.
- •Immerse the thermo switch in the water ②
 - Check the thermo switch for continuity. NOTE:

Measure temperatures while heating the coolant with the temperature gauge



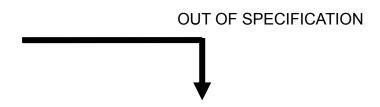
WARNING

Handle the thermo switch with special

Never subject it to strong shocks or allow it to be dropped. Should it be dropped, it must be replaced.

•Do not touch the thermo switch to the bottom of the heated vessel.

88±3°CThermo switch "ON" **80** ℃Thermo switch "OFF"



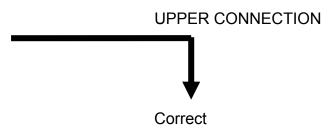
Replace the thermo switch



Wring connection

 Check the connection of the entire cooling system.

Refer to "CIRCUIT DIAGRAM"



IF THE HEAT ALARM UNIT WORKING

When the main switch is turned on, the temperature of the engine begins to go up. As it comes to $88\pm3\,^{\circ}$ C the thermostat is connected and the fan starts to work, cooling the coolant, if the thermostat or the fan, fails to work; the coolant temperature will keep rising. The heat alarm unit operates the moment the temperature reaches $115\pm5\,^{\circ}$ C with the buzzer sounding and the signal flashing. Stop the engine now to have the circuit fixed.

Procedure

Check:

- 1.Fuse(Main, Fan)
- 2. Battery
- 3.Main switch

- 4. Thermo unit
- 5. Voltage
- 6. Wiring connection (entire cooling system)

1. fuse

CHECKING SWITCHES



2. Battery

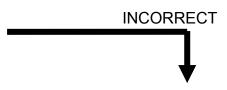
Check the battery condition.

Refer to "BATTERY INSPECTION"



NO CONTINUITY





Clean battery terminals
Recharge or replace the battery

3.Main switch CHECKING SWITCHES



NO CONTINUITY



Replace the main switch

Handle the thermo unit with

Should it be dropped, it must be

Do not touch the thermo unit to the bottom of the heated vessel.

Never subject it to strong

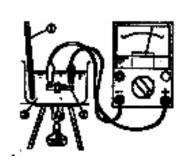
shocks or allow it to be

special care.

dropped.

replaced.

- 4.Thermo unit
- Drain the coolant and remove the thermo unit from the radiator.
- •Immerse the thermo unit ②in the coolant3.
 - ①Thermometer.



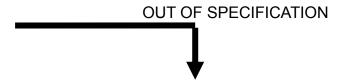
Coolant temperature Resistance

80℃

 $47.5 \sim 56.8 \Omega$

100℃

26.2~29.3Ω



Replace the thermo unit

MEETS SPECIFICATION



5. Voltage

●Connect the pocket tester (DC20V) to the

Temperature gauge couple.

Tester (+) lead→Green/Blue terminal Tester (-) lead→Green ground

- •Turn the main switch to on.
- ●Check for voltage (12V) on the temperature gauge lead.



6. Wiring connection check the connections of the entire cooling system.

Refer to "CIRCUIT DIAGRAM"



Replace the temperature gauge

OUT OF SPECIFICATION

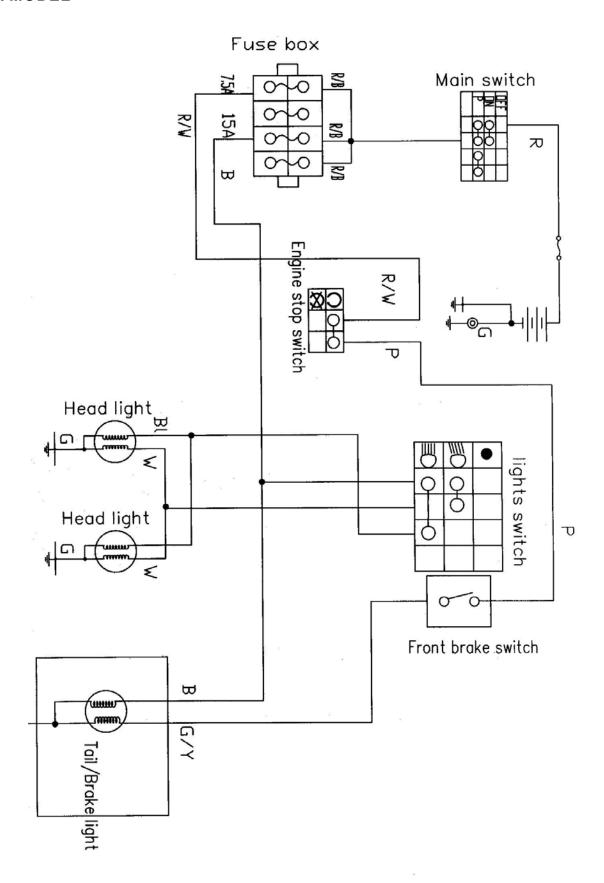
The wiring circuit from main switch to temperature gauge is faulty. Repair.



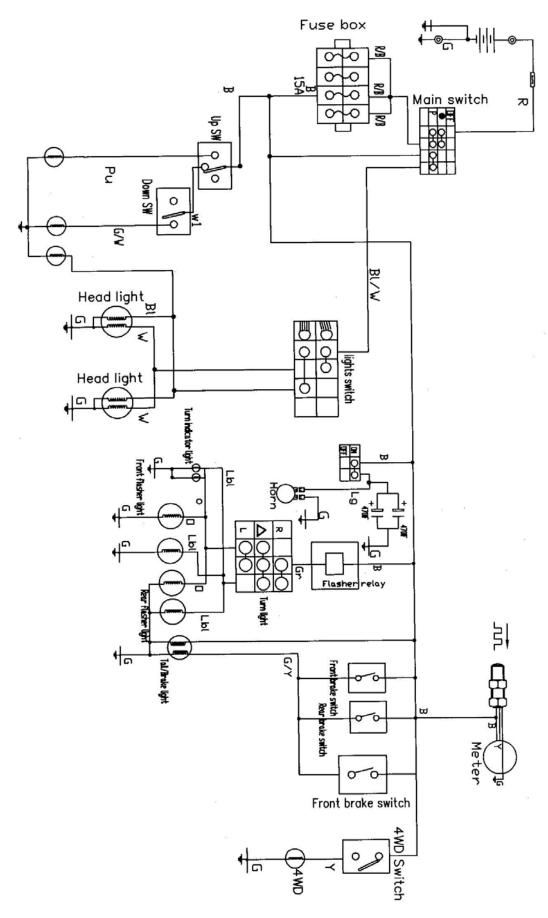


8.8 LIGHTING SYSTEM

FOR USA MODEL



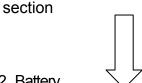
FOR EUROPE MODEL



Procedure

Check:

- 1. Fuse (Main)
- 2. Battery
- 3. Main switch
- 1. fuse "CHECKING SWITCHES" refer to



2. Battery

Check the battery condition.

Refer to "BATTERY INSPECTION" section in CHAPTER 3



3. Main switch

CHECK SWITCHES



4. Light switch

CHECK SWITCHES

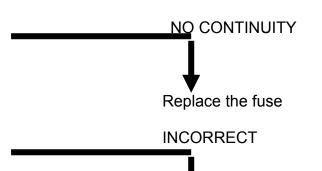


5. Dimmer sw **CHECK SWITCHES**

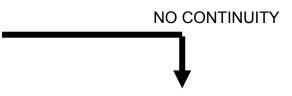


6. Wiring connection

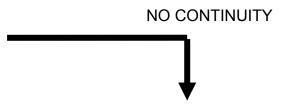
- 4.Lights switch
- 5.Dimmer switch
- 6. Wiring connection (entire lighting system)



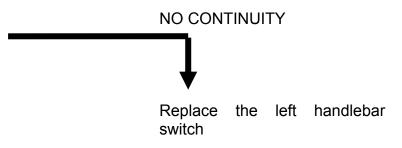
Clean battery terminals Recharge or replace the battery



Replace the main switch



Replace the right handlebar switch



POOR CONNECTIONS

Check the connection of the entire lighting system



correct

7. check the condition of each of the lighting system's circuits

Refer to "LIGHTING SYSTEM CHECK"

LIGHT SYSTEM CHECK

1. If the headlight and the high beam indicator light fail to come on

1.Blub and bulb socket CHECK SWITCHES



Replace the bulb and/ or bulb

NO CONTINUITY

socket

2. Voltage

Connect the pocket tester (DC20V) to the headlight and high beam indicator light couplers.

A When the dimmer switch is on low beam.

B When dimmer switch is on high beam

Headlight::

Tester (+) lead →White ①or Blue ②lead Tester negative (-) lead →Green ③lead

Turn the main switch to on.

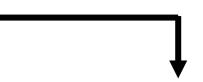
Turn the light switch to on position.

Turn the dimmer switch to low beam or high beam.

Check for voltage (12V) on the lead at bulb socket connectors



This circuit is not faulty



OUT OF SPECIFICATION

The wiring circuit from the main switch to

bulb socket connector is faulty. Repair

2. the taillight fails to come on

1. Bulb and bulb socket

CHECK SWITCHES



2. Voltage

Connect the pocket tester (DC20V) to the bulb

socket connector.

Tester (+) lead→

Black terminal ①

Tester (-) lead→

Green terminal 2

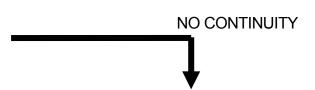
Turn the main switch to on.

Turn the lights switch to on pilot position.

Check the voltage (12V) on the bulb socket connector



This circuit is not faulty



Replace the bulb and /or bulb socket

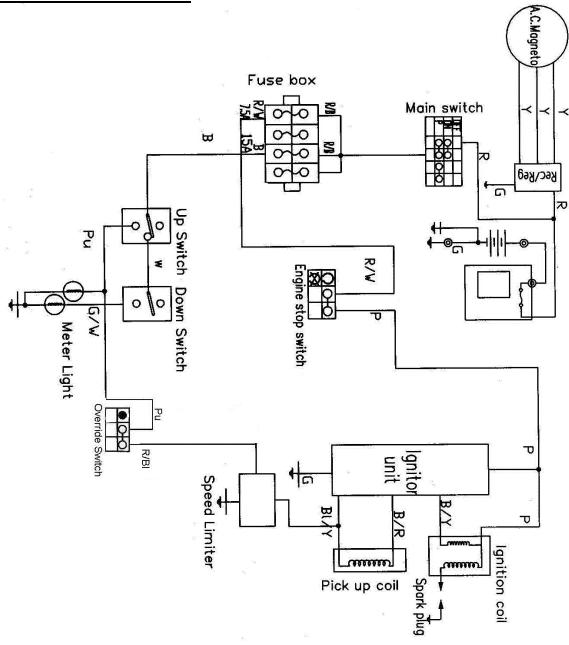
OUT OF SPECIFICATION

The wiring circuit from main switch to

bulb connector of faulty.

Repair

8.9 REVERSE LIMIT SYSTEM



The limit set for the speed limiter by the manufacturer is 13~15 km/h, which can be reset in accordance with the user's practice. Turning the adjusting bolt clockwise is to increase speed, while the counterclockwise decrease it.

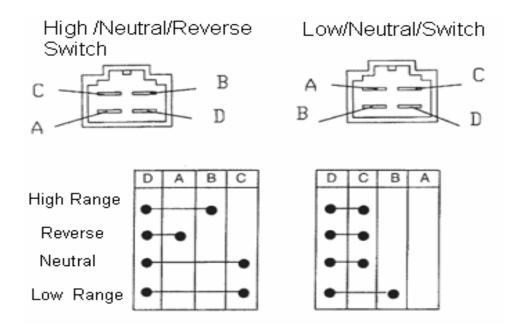
NOTE. This limit can be released by the override switch.



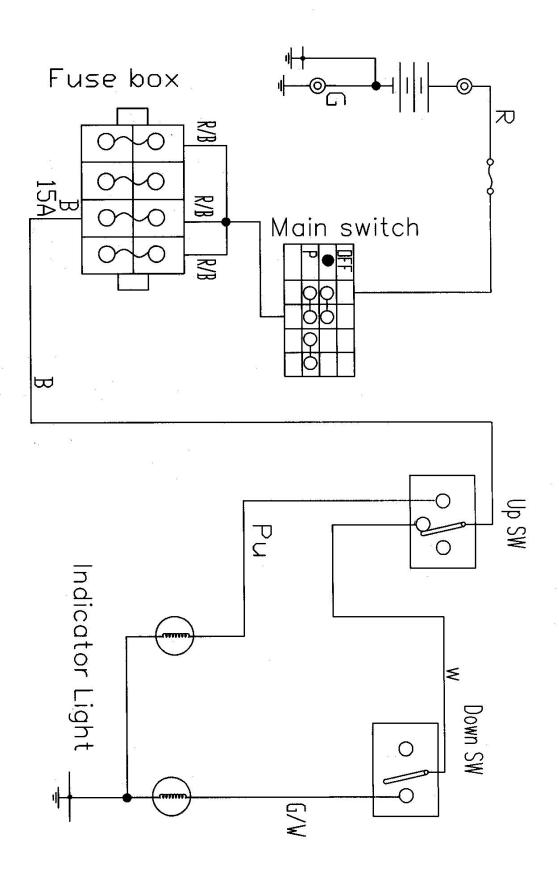
POSITION **INDICATOR** 8.10 **GEAR**

SWITCH TEST

Switch table



Switch schematic



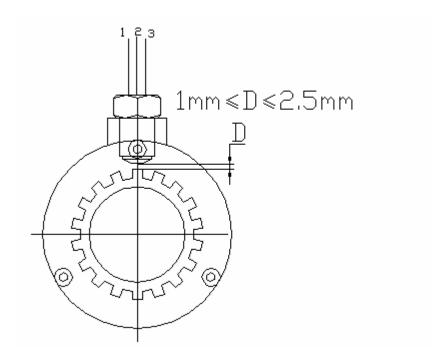
SPEEDMETER SYSTEM

Installation and Operation Instructions Of LH260ATV Meter and Sensor

- Hall Sensor is a new type sensor used to measure speed, angle, revolution and length, etc by means of voltage pulse signals converted from sensing gear ratio of black metal gear or gear rack.
- Main Technical Parameter for sensor: B.

Item	Code	Vol value	Unit
Operating voltage	Vcc	5-20	V
Operating current	Icc	≤15	mA
Low voltage output	Vol	≤ 0.4	V
Hight voltage output	Voh	≥ (Vcc-1)	V
Operating distance	D	1mm ≤ D ≤ 2.5mm	mm

The following is the graphic illustration for sensor installation, Wire 1 (red) is positive and wire 2 (black) negative, Wire 3 (yellow) works as the one to output signals.



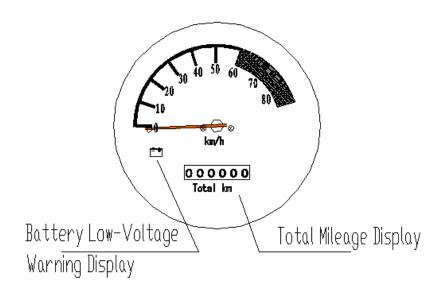
Note: Always screw in the sensor by hand when installation or adjustment.

- 1, Align one tooth of the splines to the centre of the hole of the sensor by turning the rear axle.
- 2. Screw the senor in (CW) by hand slightly until resistance is felt.
- 3. Turn the sensor CCW by 1 to 2 turn(s).
- 4. Tighten the jam nut.

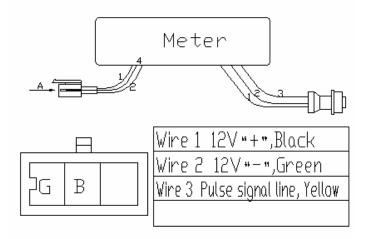
SPEEDMETER SYSTEM

a) The meter display falls into two types, numeral display and pointer display and tells mainly vehicle driving speed, total mileage covered and battery voltage .The diagram is as follows: Main Technical Parameter:

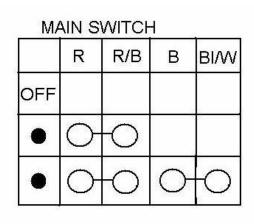
Item	Vol value	Unit
Operating voltage	10V~18V	V
Operating current	≤ 500mA	Α
Operating Environmental temperature	-10℃~65℃	$^{\circ}$
Battery warning voltage	≤11.5V	V

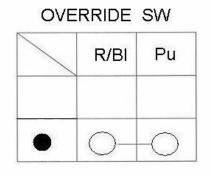


b) Meter Wiring Directions:



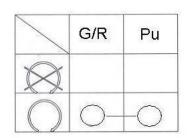
8.12 MAIN SWITCH AND HANDLE SWITCH



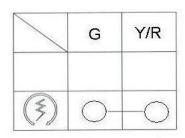


HANDLE SWITCH SCHEMATIC FOR USA MODEL

IGNITION SW



START SW

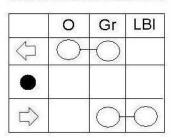


HIGH/LOW BEAM SW

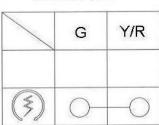
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HANDLE SWITCH SCHEMATIC FOR EUROPE MODEL

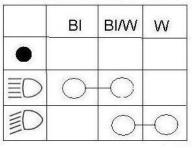
TURN INDICATOR SW



START SW



HIGH/LOW BEAM SW



HORN SW

	В	Lg	
OFF			
ON	0	0	