# Owner's Manual



Parts Manual

READ THIS MANUAL CAREFULLY, IT CONTAINS IMPORTANT SAFETY INFORMATION.





### FOR OFF-ROAD USE ONLY

This vehicle is designed and manufactured for off-road use only. USA only:

It does not conform to Federal Motor Vehicle Safety Standards, and in regards to operation on public streets, roads, or highways is illegal.

#### TJ POWER SPORTS, LLC - EMISSION CONTROL SYSTEM WARRANTY

#### YOUR WARRANTY RIGHTS AND OBLIGATIONS

The emission control system warranty period for this vehicle begins on the date the vehicle is delivered to the first purchaser other than an authorized dealer, or the date it is first used as a demonstrator, lease, or company vehicle, whichever comes first and continues for 30 months after that date, or 5,000km, whichever comes first, provided there has been no abuse, neglect or improper maintenance of your vehicle. Where a warrantable condition exists, the Distributor will repair your vehicle at no cost to you, including diagnosis, parts and labor. If an emission-related part on your vehicle is defective, the part will be repaired or replaced by the Distributor. This is your emission control defects warranty.

#### **OWNER'S WARRANTY RESPONSIBILITIES**

As the vehicle owner, you are responsible for the performance of the required maintenance. You should maintain a record of all maintenance performed on your vehicle and retain all receipts covering maintenance on your vehicle. You may not be denied a warranty claim solely because of your failure to ensure the performance of all scheduled maintenance or lack of maintenance records or receipts. You are responsible for presenting your vehicle to an authorized dealer as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

As the vehicle owner, you should be aware that you may be denied your warranty coverage if your vehicle or a part has failed due to abuse, neglect, improper maintenance, or unapproved modifications.

#### WARRANTY COVERAGE

The Distributor warrants that each new 2008 and later vehicle:

- is designed, built, and equipped so as to conform at the time of initial retail purchase with all applicable regulations of the United States Environmental Protection Agency, and the California Air Resources Board; and
- is free from defects in material and workmanship which cause such vehicle to fail to confirm with applicable regulations of the United States Environmental Protection Agency or the California Air Resources Board for the periods specified above.

Your emission control system warranty covers components whose failure would increase an engine's emission, including electronic controls, fuel injection system, carburetor, the ignition system, catalytic converter, or any other system utilized in this vehicle to control emission if it is originally equipped. Also included may be hoses, connectors and other emission-related assemblies. Replacing or repairing other components (including parts, labor, and other costs) not covered by this emission control system warranty or the standard warranty is the responsibility of the owner.

Coverage of repairs under this warranty applies only when repairs are completed at an authorized dealer or repair facility. The Distributor will not cover repairs performed outside of an authorized dealer or repair facility, except in an emergency situation. The use of replacement parts not equivalent to the original parts may impair the effectiveness of your vehicle's emission control system. If such a replacement part is used and an authorized dealer determines it is defective or causes a failure of a warranted part, your claim for repair to bring your vehicle into compliance with applicable standards may be denied.

If an emergency situation exists when a warranted part or a dealer is not reasonably available to the owner, repairs may be performed at any available service establishment, or by the owner, using any replacement part. The Distributor shall reimburse the owner for the expenses, including diagnostic charges, not to exceed the Distributor's suggested retail price for all warranted parts replaced and labor charges based on the Distributor's recommend time allowance for the warranty repair and the geographically appropriate hourly labor rate. The owner may reasonably be required to keep receipts and failed parts in order to receive compensation.

This Emission Control System Warranty is in addition to the standard Limited Warranty.

#### **EXCLUSIONS AND LIMITATIONS**

This warranty does not cover the following:

- · Failures or malfunctions of the emission control systems caused by abuse, alteration, accident, misuse, the use of leaded gasoline.
- Replacement of expendable maintenance items unless they are original equipment defective in material or workmanship under normal use, and the first required replacement interval for the item has not been reached. Expendable maintenance items include but not limited to spark plugs, filters, coolant, lubricants, gaskets, hoses, and belts.
- Replacements of parts and other services and adjustments for required maintenance.
- Any vehicle equipped with an odometer or hour meter where the reading is altered so that actual mileage cannot be readily determined.
- Repairs or replacements as a result of:
  - Accident
  - Misuse
  - Use of replacement parts or accessories not conforming to the original specifications which adversely affect performance
- Physical damage, corrosion, or defects caused by fire, explosions or similar causes beyond the control of the Distributor.
- Failures not caused by a defect in material or workmanship.

Use of the vehicle in any type of competitive racing or related events immediately and completely voids this and all other warranties.

#### LIMITED LIABILITY

The liability of the Distributor under this Emission Control System Warranty is limited solely to the remedying of defects in material workmanship by an authorized dealer at its place of business during customary business hours. This warranty does not cover inconvenience or loss of use of the vehicle or transportation of the vehicle to/from the authorized dealer. The Distributor is not liable to any person for incidental, consequential or special damages of any description, whether arising out of express or implied warranty or any other contract, negligence or other tort or otherwise.

No express emission control system warranty is given by the Distributor except as specifically set forth herein. Any emission control system warranty implied by law, including any warranty of merchantability or fitness for a particular purpose is limited to the express emission control system warranty terms stated in this warranty. The foregoing statements of warranty are exclusive and in lieu of all other remedies. All express warranties not stated in this warranty are disclaimed. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply if it is inconsistent with the controlling state law.

No dealer is authorized to modify this Emission Control System Warranty. If you have any questions regarding your warranty rights and responsibilities, you should contact TJ Power Sports, LLC at 8730 North Royal Lane, Irving, TX 75063 or the California Air Resources Board, 9528 Telstar Avenue, El Monte, CA 91731 (for California registered vehicles only).

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Thank you for purchasing our kart. We hope you will enjoy it. Before you start to operate the kart, please read through this Owner's Manual carefully as it contains important safety and maintenance information. Failure to follow the warnings contained in this manual can result in serious injuries or death.

Be sure to follow the recommended maintenance schedule and service your kart accordingly. Preventive maintenance is extremely important to the longevity of your kart.

Beginners should seek instruction from your dealer or qualified instructors before and during initial use of the kart. It is also recommended to practice in a large flat open area to familiarise yourself with operations of this kart.

We hope you will have a pleasant experience with our products and thank you again for choosing our kart.

## A FEW WORDS ABOUT SAFETY

In order to keep everyone safe, you must take responsibility for the safe operation of your kart.

To help you make informed decisions about safety, we have provided operating procedures and other information on labels and in this manual. This information alerts you to potential hazards that could hurt you or others.

It is not practical or possible to warn you about all hazards associated with operating or maintaining a kart. You must use your own good judgment.

You will find important safety information in a variety of forms, including:

Safety Labels - On the kart.

Safety Messages – Preceded by a safety alert symbol and one of two signal words: WARNING, or CAUTION.

These signal words mean:



Physical harm may result from failure to adhere to the instructions that are described within the WARNING labels.

Safety Headings — such as Important Safety Reminders or Important Safety Precautions.

**Safety Section** — such as Kart Safety.

Instructions — how to use this kart correctly and safely.

This entire manual is filled with important safety information—please read it all carefully.

## IMPORTANT SAFETY INFORMATION

Your kart will provide you with many years of use and pleasure. Providing you take responsibility for your own safety and that of any one else using your kart or near to the kart when it is being used and understand the challenges you can meet while driving.

There is much that you can do to protect yourself while operating your kart. You will find many helpful recommendations throughout this manual. The following are a few that we consider to be the most important.

### Follow the Age Recommendation

The kart should not be driven by anyone under the age of 16.

### Always Wear a Helmet

It's a proven fact: helmets significantly reduce the number and severity of head injuries. Always wear an approved motorcycle helmet. We also recommend that you wear eye protection, sturdy boots, gloves, and other protective gear.

### **Drive Off-Road Only**

Your kart is designed and manufactured for off-road use only. The tires are not made for use on pavements, and the kart does not have turn signals and other features required for use on public roads. If you need to cross a paved or public road, get off and walk your kart across.

### Take Time to Learn & Practice

Even if you have driven other karts, take time to become familiar with how this kart works and handles. Practice in a safe area until you build your skills and get accustomed to this kart's size and weight.

Because many accidents involve inexperienced or untrained drivers, we urge all drivers to take a training course. Check with your dealer for more information on training courses.

### Be Alert for Off-Road Hazards

The terrain can present a variety of challenges when you drive off-road. Continually "read" the terrain for unexpected turns, drop-offs, rocks, ruts, and other hazards. Always keep your speed low enough to allow time to see and react to hazards.

## **IMPORTANT SAFETY INFORMATION**

#### Drive within Your Limits

Pushing limits is another major cause of kart accidents. Never drive beyond your personal abilities or faster than conditions warrant. Remember that alcohol, drugs, fatigue, and inattention can significantly reduce your ability to make good judgments and drive safely.

### Don't Drink and drive

Alcohol and driving don't mix. Even one drink can reduce your ability to respond to changing conditions, and your reaction time gets worse with every additional drink. So don't drink and drive, and don't let your friends drink and drive either.

### Do not operate this kart at night.

Dark vision can greatly reduce a driver's visibility and judgment. So driving at night is dangerous and can increase the possibility for an accident.

### Never run your kart indoors.

The exhaust from the engine contains a tasteless, odorless and poisonous gas called carbon monoxide.

### Keep away from moving parts of the kart

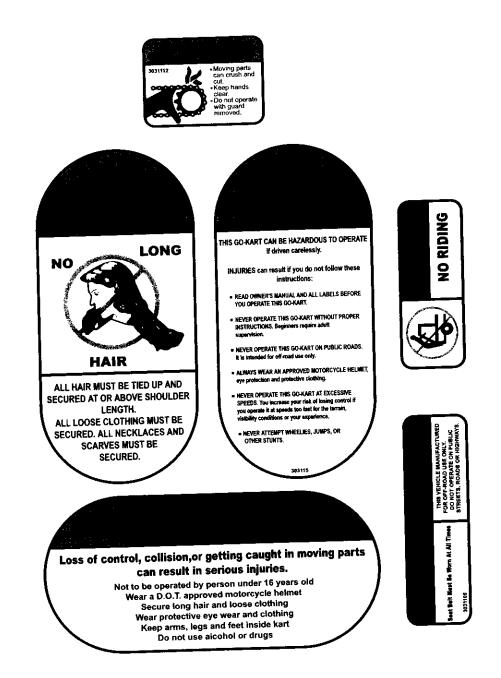
The operator of the kart should never place their hands or other parts of their body near any moving part of the kart. Failure to adhere to this warning will cause physical harm to your body.

### Skidding or Sliding

The terrain surface can be a major factor affecting turns. Skidding in a turn is more likely to occur on slippery surfaces such as snow, ice, mud and loose gravel. If you skid on ice, you may lose all directional control. To avoid skidding on slippery terrain, keep your speed low and drive carefully.

This section presents some of the most important information and recommendations to help you drive your kart safely. Please take a few moments to read these pages.

The labels should be considered permanent parts of the kart. If a label comes off or becomes hard to read, contact your dealer for warning label replacements.



## ARE YOU READY TO DRIVE?

Before each drive, you need to make sure that you and your kart are both ready to drive. To help get you prepared, this section discusses how to evaluate your driving readiness, what items you should check on your kart, and adjustments to make for your comfort, convenience, or safety.

Before you drive your kart for the first time, we urge you to:

- Read this owner's manual and the labels on your kart carefully.
- Make sure you understand all the safety messages.
- Know how to operate all the controls.

### Before each drive, be sure:

- You wear your seat belt at all times while driving your kart.
- You feel well and are in good physical and mental condition.
- You are wearing an approved motorcycle helmet (with chin strap tightened securely), eye protection, and other protective clothing.
- You don't have any alcohol or drugs in your system.

### **Protective Apparel**

For your safety, we strongly recommend that you always wear an D.O.T. approved motorcycle helmet, eye protection, boots, gloves, long pants, and long-sleeved shirt or jacket whenever you drive.

Although complete protection is not possible, wearing proper gear can reduce the chance of injury should you have an accident.

The following suggestions will help you choose the proper protective gear.

### **Helmets and Eyes Protection**

Your helmet is your most important piece of protective gear because it offers the best protection against head injuries. A helmet should fit your head comfortably and securely.

An open-face helmet offers some protection, but a full-face helmet offers more. Regardless of the style, look for a D.O.T. (Department of Transportation) sticker on any helmet you buy. Always wear a face shield or goggles to protect your eyes and help your vision.



Operating this kart without wearing an approved motorcycle helmet, eye protection, and protective clothing could increase your chances of head and/or eye injury, and the possibility of death in the event of a severe accident.

Always wear an approved motorcycle helmet that fits properly and wear eye protection (goggles or face shield), gloves, boots, long-sleeved shirt or jacket and long pants.

### **Additional Driving Gear**

In addition to a helmet and eye protection, we also recommend:

- Sturdy off-road motorcycle boots to help protect your feet, ankles, and lower legs.
- Off-road motorcycle gloves to help protect your hands.
- Driving pants with knee and hip pads, a driving jersey with padded elbows, and a lder protector.

### **Driver Training**

Developing your driving skills is an on-going process. Even if you have driven other karts, before take time to become familiar with how this kart works and handles. Practice driving the kart in a safe area to develop your skills. Do not drive on rough terrain until you get accustomed to the kart's controls, and feel comfortable with its size and weight.



Operating this kart without your seat belt could cause you to be thrown from the kart, causing serious injury or death.

### No Alcohol or Drugs

Alcohol, drugs and karts don't mix. Even a small amount of alcohol can impair your ability to operate a kart safely. Likewise, drugs-even if prescribed by a physician-can be dangerous while operating a kart. Consult your doctor to be sure it is safe to operate a vehicle after taking medication.



Operating this kart after consuming alcohol or drugs can seriously affect your judgment, cause you to react more slowly, affect your balance and perception, and could result in serious injury or death.

Never consume alcohol or drugs before or while operating this kart.

## IS YOUR VEHICLE READY TO DRIVE?

Before each drive, it is important to inspect your kart and make sure any problems you find are corrected. A pre-drive inspection is a must, not only for safety, but because having a breakdown, or even a flat tire, can be a major inconvenience.

If your kart has overturned or has been involved in a collision, do not drive it until your kart has been inspected by your dealer. There may be damage or other problems that you can not see.



Improperly maintaining this kart or failing to correct a problem before driving can cause a crash in which you can be seriously hurt or killed.

Always perform a pre-drive inspection before every drive and correct any problems.

## SAFE DRIVING PRECAUTIONS

### Off-Road Use Only

Your kart and its tires are designed and manufactured for off-road use only, not for use on paved surfaces. Driving on paved surfaces can affect the kart handling and control.

## **MARNING**

Operating this kart on paved surfaces may seriously affect handling and control of the kart, and may cause the vehicle to go out of control.

Never operate the kart on any paved surfaces, including sidewalks, driveways, parks lots and streets.

When driving off-road, also remember to always obey local off-road driving laws and regulations. Obtain permission to drive on private property. Avoid posted areas and obey "no trespassing" signs.

You should never drive your kart on public streets, roads or highways, even if they are not paved. Drivers of street vehicles may have difficulty seeing and avoiding you, which could lead to a collision.

## **MARNING**

Operating this kart on public streets, roads or highways could cause a collision with another vehicle.

Never operate this kart on any public streets, roads or highways, whether they are dirt, gravel or paved surfaces.

### **Keep Hands and Feet on Controls**

When driving your kart, always keep both hands on the steering wheel and both feet on the foot controls. It is important to maintain your balance and to control the kart. Removing hands or feet away from the controls can reduce your ability to react and control the kart.



Removing your hands from the steering wheel or feet from the foot controls during operation can reduce your ability to control the kart or could cause you to lose your balance and fall off the kart.

Always keep both hands on the steering wheel and both feet on the foot controls of your kart during operation.

### Control Speed

Driving at excessive speed increases the chances of an accident. In choosing an appropriate speed, you need to consider the capability of your kart, the terrain, visibility and other operating conditions, plus your own skill and experience.

## 

Operating this kart at excessive speeds increases your chances of losing control of the kart, which can result in an accident.

Always drive at a speed that is appropriate for your kart, the terrain, visibility and other operating conditions, and your experience.

## Use Kart on Unfamiliar or Rough Terrain

Before driving in a new area, always check the terrain thoroughly. Don't drive fast on unfamiliar terrain or when visibility is limited (it's sometimes difficult to see obstructions like hidden rocks, bumps, or holes in time to react).

Failure to use extra care when operating this kart on unfamiliar terrain could result in the kart overturning or going out of control.

Go slowly and be extra careful when operating on unfamiliar terrain. Always be alert to changing terrain conditions when operating the kart.

Never drive past the limit of visibility. Maintain a safe distance between your kart and other off-road vehicles. Always exercise caution and use extra care on rough, slippery and loose terrain.

## **⚠ WARNING**

Failure to use extra care when operating on excessively rough, slippery or loose terrain could cause loss of traction or vehicle control, which could result in an accident, including an overturn.

Do not operate on excessively rough, slippery or loose terrain until you have learned and practiced the skills necessary to control the kart on such errain. Always be especially cautious on these kinds of terrain.

### Do Not Perform Stunts

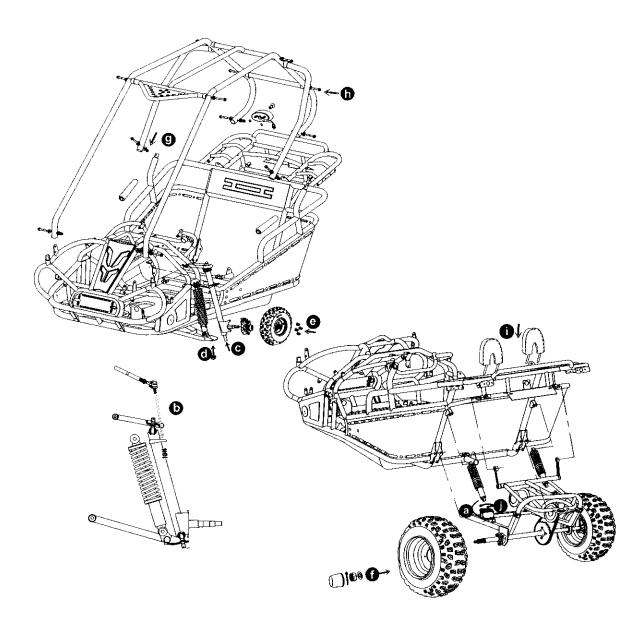
You should always operate your kart in a safe and reasonable manner. When driving, always keep all four wheels on the ground.



Attempting wheelies, jumps, and other stunts increases the chance of an accident, including an overturn.

Never attempt stunts, such as wheelies or jumps. Don't try to show off.

- a. Install RR. Shocks and tighten the nuts.
- b. Install Ball Head, Tie Rod, tighten the Castle Nut and insert the cotter Pin.
- c. Install Dust Seals, align the Ball Head Bolt, Knuckle Support to the square hole on the Lower A-Arm.
- d. Install Flange Nut and tighten it (> 88.9 foot lbs)
- e. Install Front Tires and tighten the nuts.
- f. Install Rear Tires, tighten the nuts, insert cotter Pin and put on the Rubber Cover.
- g. Raise the C.B.C custom bar cage as what picture shows
- h. Install C.B.C custom bar cage RR., put on R-Washer.
- i. Install Head-Rest.
- j. Check all nuts and bolts, wiring, cables, fuel line, switches and tire pressure.
- k. Fill battery with Acid and charge, check and fill the engine with the recommended oil.
- 1. Fill fuel tank with Unleaded Gasoline, and turn on the ignition switch to start the engine.



## **SPECIFICATIONS**

DIMENSIONS	
0 11 I ath	85 in. (2160mm)
	33.4 III. (1400Hill)
O Ullsight	5/.4 m. (1436mm)
TATI 11	39 m. (1900mm)
n . m .1.	45.7 in. (1160min)
D. Tool	39.4 m. (1000 mm)
Ground Clearance	6.7 in. (170mm)
ENGINE	
	Oil & Air cooled. 4-Stroke
*	
	37.4Hilli X 37.0Hilli
Compression ratio	·
- 1 · .	N1,CD21)
O	
T	13/5500 100t 108/1/1111t
	Electic
T	
I designation	Force & Spiasir
	Automatic (C.V.1 system)
	C7HSA(NGK)
T)1	U.0-V./ IIIII
T 177	KQ90 (umeaded)
Lubricate oil	SAE-10W/40
CAPACITIES	D 11 C1-/400lba
Maximum load	Double Seats/400lbs
Fuel tank	20. Oz
Engine oil	30 Oz
O	
Climbing	
D. II	1ZV 1UAN
TT 1Tight	
T-: Light	12V 21VV/3VV
F1190	10A

## **SPECIFICATIONS**

Brake Track	< 7 m@20miles/h
Top speed	45 miles/h(or limited as customers require)
•	
CHASSIS	
Front, Rear brake	
Front tire	20 x 7-8
Rear tire	
Front Suspension	Independent Dual A-Arm
Rear Suspension	Swing Arm/Double Oil Damped Shock
Restraint System	Dual 4-point Harness
Final Drive Chain	(KMC) O-Ring Chain
TIPE PRECEIPE	
TIRE PRESSURE	150LD 15bs/ 21 2
Front	
Rear	200kPa 2.0kg/cm2 28.4psi
WEIGHT	
Net Weight	465 lbs

### A. Operation controls

WARNING - Do not attempt to start or operate the engine until completely familiar with the location and use of each control necessary to operate this vehicle. The operator must know how to stop this machine before starting and driving it.

### a. Throttle

The right foot pedal is the throttle that controls the kart speed. As the engine speed increases above idle, the clutch automatically engages and moves the vehicle forward. To disengage the clutch at any time, allow the throttle to return to the idle position. (See Fig. 1)

Each time prior to starting the engine, check the throttle assembly to ensure that when the pedal is pushed all the way forward the assembly is working smoothly and returns to idle when released. Do not operate if pedal or engine throttle linkage fail to return to idle. If unable to correct the problem through lubrication, adjustment or replacement of worn parts, contact your dealer for assistance.

#### b. Brake

The brake is the left foot pedal (See Fig.1). Applying pressure to the pedal draws the brake caliper around the brake disc at the rear wheel and slows or stops the kart.

### c. Start engine

Insert the key into key-switch, turn the key clockwise, release the key when the engine starts. The engine will warm up within 5 minutes and the engine choke will close automatically and operate at the normal RPM (Warning: Don't crank starter more than 5 seconds at one time).

### d. Engine stop button

Important-stop button test.

Before driving this vehicle, test the Engine

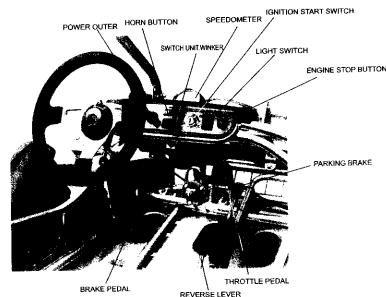


Figure 1

Stop Button to ensure that it is operating properly. With the engine running, push and hold the Engine Stop Button for two seconds for the engine to shut down.

### **B. Pre-Drive Inspection**



Perform this pre-drive inspection everyday before driving the vehicle. If not performed, serious damage to the vehicle or personal injury may result.

- a. Check the engine oil level is between the bottom of the dipstick and the "0" mark. Check for leaks. Add oil if required.
- b. Check the Fuel Level. Add fuel as necessary and do not overfill. Check for leaks. Ensure the fuel filler cap is securely fastened.
- c. Check the Brakes. Depress the left brake pedal several times, and check for adequate brake pedal freeplay. Make sure there is no brake fluid leakage.
- **d**. Check the tires. Check their condition for damage or excessive wear and pressure. The pressure on the front and rear tires is 15 and 20kPa respectively.
- e. Check the Drive Chain. Check its condition and tension. Lubricate if necessary.
- f. Check the Throttle Cable. Check for smooth operation. Ensure throttle "snaps" back to idle when released and moves smoothly without sticking.
- g. Check the Engine Stop Button. While the engine is running press and hold the engine stop button for 2 seconds. Make sure the engine stops.
- h. Check all Nuts, Bolts, and Fasteners. Check the wheels to see that all axle nuts and lug nuts are tightened properly. Check and tighten as necessary all other nuts, bolts and fasteners.
- i. Check the Brush Guard. Ensure all C.B.C. bars are in place before operating the kart.
- j. Check the Lights. Check the headlights, brake light and tail light are all working.
- **k**. Check the Steering. Check that the steering wheel moves freely in both directions but without any unusual looseness.
- Check all Cable Housings. Check these for wear and the fitting for any looseness.
- m. Check the underbody and exhaust system. Remove all dirt, vegetation and mud and check for any damage due to impact with rocks or unever terrain.
- **n**. Check the Air Cleaner Housing Drain Tube. Check the deposits in the drain tube. If necessary, check the tube and air cleaner housing.
- Check Leaks and Loose Parts. Walk around your kart and look for anything that appears unusual, such as a leak or loose cable.
- p. Check the Parking Brake. Make sure the kart does not move forward or backward when the parking brake is applied.

## Component locations



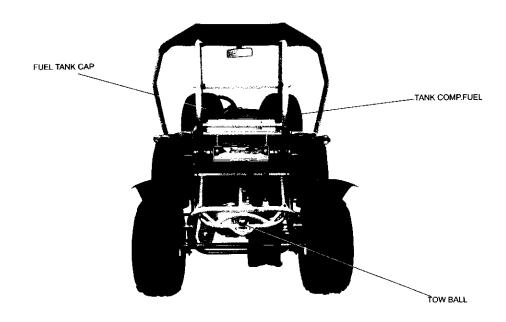


Figure 2

### C. Passengers

The vehicle is designed for two people only. The combined maximum weight of the driver and the passenger should not exceed 180kg or 400lbs.

### D. Seat Adjustment

The seat should be securely fastened in the position which gives the operator best control of the foot pedals, steering wheel, and the remote stop button.

- **a**. Pull the seat adjustment handle upward to disengage the seat slide.
- b. Move the seat to the desired position.
- c. Be sure that the seat adjustment handle snaps back into place and that seat is locked into position.



Figure 3



Before attempting to adjust the seat, ensure that engine is stopped.



Never operate this kart when the seat is not securely in place, to do so could result in personal injury or loss of life.

### E. Forward and Reverse Gear

- **a**. Push the reverse lever forward to the "D" position for the kart to move forward, pull the lever back to "R" for the kart to move backward. (See Fig.4)
- b. When gear lever is in the drive position, there needs to be 1/2 inch of freeplay in the cable.

  If the adjustment is not correct, then loosen the lock nut #2, then adjust lock nut #1 to give the proper amount of freeplay.

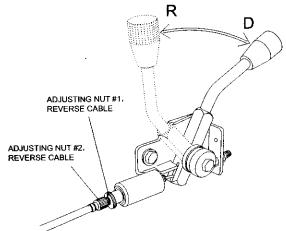


Figure 4



Always stop the kart before changing gears.

### F. Starting and Operating Instructions

- **a**. Before starting the engine, the driver must be seated properly in the kart with the seat belt on.
- **b**. Practice in the kart in an open space at the beginning to learn how to start, turn and stop the vehicle.
- c. Drive slowly until you are familiar with the operation of the kart.
- **d**. The turning radius of this kart is small and agile, so the centrifugal force is very high when turning at high speed. Slow down to a more controllable speed when turning

to prevent the kart from rolling over. The driver should keep their heels on the ramp of the main board when turning. (See Fig.5) Keeping their leg on the foot pedal, the driver can feel that the kart is stable and won't roll over.

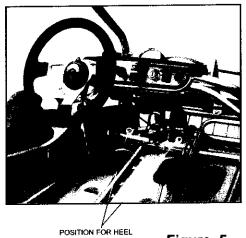


Figure 5

## SERVICE INSTRUCTIONS

### A. Air Cleaner

Service the air cleaner every 20 hours NOTE: Service is required more often in dusty conditions.

- a. Remove cleaner cover 1.
- b. Remove air cleaner element 2 (See Fig.6)
- c. Fill the non-flammable cleaning agent into a basin and dip the element in it.
- **d**. Dry it after cleaning. Replace check for cracks or holes. It needs to be replaced with new filter.

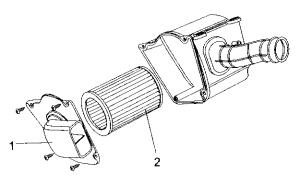


Figure 6

### **B. Engine Lubrication**

You must change the oil in the crankcase after the first 5 hours of operating of your new engine (See Fig. 7) and after every 10 hours of use thereafter. This will insure proper lubrication of the internal parts and prevent costly repairs due to excessive wear.





Used Oil Must Be disposed of at a proper collection Center

- a. Remove the drain plug located on the right rear side of engine. Tip the kart backwards slightly by blocking up the front end and drain the oil into suitable container.
  - b. Remove and clean the oil filter.
- c. Replace drain plug and tighten securely. Place the kart in a level position.
- **d**. Refill the crankcase (approximately 1 1/4 pint) to the top of the filler neck with SAE 10W40 oil.
- e. Check the oil level before each use of the kart or after each 10 hours of operation. Add oil when necessary to keep the level between the bottom of the dipstick and the "0" mark. Do not mix various grades of oil.

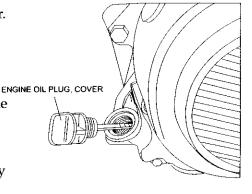


Figure 7

### C. Spark Plug

- a. Remove the spark plug and inspect it each time you change the oil (Use a spark plug wrench). The electrodes should be kept clean and free of carbon. The presence of carbon or excess oil will greatly reduce engine performance. If possible, check the spark plug gap (area between electrodes) using a wire feeler gauge. This specification is 0.6~0.7mm.
- **b**. Before installing the spark plug coat the threads lightly with graphite grease if possible, to ensure easy removal next time the spark plug needs inspection.
- c. It is advisable to replace the spark plug at least once a year to ensure easy starting and good engine performance.

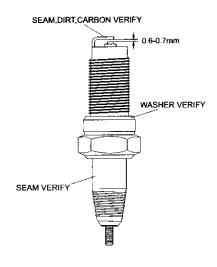


Figure 8

### D. Carburetor Adjustment

Never make unnecessary adjustments. The factory recommended settings are correct for most applications.

- a. Warm up the engine (5~10min)
- b. Tighten the air screw gently. Backout 2-3/8 turns counter clockwise.
- c. Connect the tachometer, adjust the throttle to limit the idle speed. The standard value is 1400RPM.
- d. Turn the air screw counter clockwise slowly and observe the RPM of the engine, stop adjusting as the RPM reaches the top speed.
- e. Adjust the screw and adjust the idle speed to an ideal value.
- f. Recheck and readjust the idle speed if necessary.

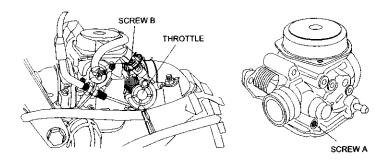


Figure 9

### E. Cleaning Instructions

Keep your kart clean. With a clean rag, wipe off all dirt and oil from around the controls. Wipe off any spilled fuel and oil. Keep the engine clean of foreign objects, and be sure to check that the air intake fan is free of debris for proper cooling.

### F. Buggy Lubrication

Lubricate the vehicle every 90 days of use. Lubrication should be done more often, if the kart is used everyday.

### G. Chain Lubrication

To increase chain life, it should be lubricated with a spray on type chain lubricant. (See Fig. 10)

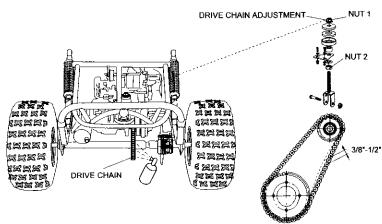


Figure 10

### H. Chain Adjustment

Check the chain adjustment after the first two hours of use. Readjust if it has more than 1/2" flex.

- a. Loosen Nut #1
- **b**. Adjust Nut #2. Turn Nut #2 clockwise in 1/2 turn increments, then turn nut #1 until tight. Follow this procedure until the chain is correctly tensioned (See Fig. 10).
- c. Repeat the above two steps until the chain is adjusted correctly.

### I. Adjustment of Front And Rear Shock

There are five adjustable positions on each shock. The default position is in the middle set by manufacturer (See Fig. 11)

Use a round nut wrench as you adjust the shock, the tension of shock spring will increase as you screw to left, decrease as you screw to right. Adjust according to the weight of the riders.

### J. Storage Instruction

In the event your kart is not to be operated for a period in excess of 30 days or at the end of each driving season prepare for storage as follows:

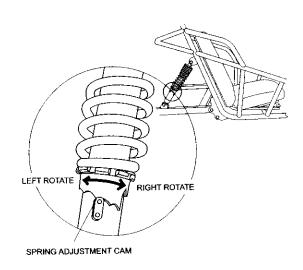


Figure 11

- a. Drain fuel tank and carburetor by allowing engine to run out of fuel, and use a fuel stabilizer.
- **b**. Lubricate engine cylinder by removing the air cleaner, then spray engine fogging oil through the carburetor until the motor dies.
  - c. Do not save or store gasoline over winter. Using old gasoline, which has deteriorated from storage, will make the engine difficult to start and affect engine performance.



Do not drain fuel while engine is hot. Be sure to move the kart outside before draining fuel.

### A. Front Wheel Replacement

Do not disassemble the castle nuts when you replace the front wheels.

It is only necessary to remove the 4 lug nuts to remove the wheel. (See Fig. 12) Tighten the nuts after replacing the wheels.

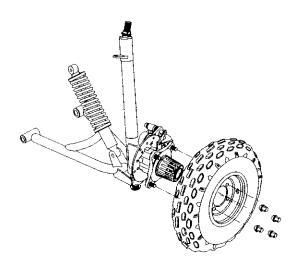


Figure 12

### B. Rear Wheel Replacement

Do not disassemble the castle nuts when you replace the rear wheels and hub assembly. Remove the cotter pin and then 24mm nut. Then slide off the wheel and hub assembly. It is only necessary to remove the 4 lug nuts to remove the wheel.

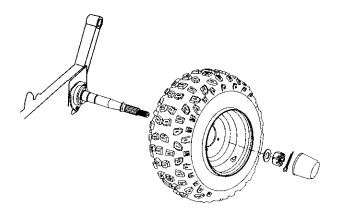


Figure 13

### C. Front Wheel Alignment

- a. The front wheels should be "toe-in" from 1/8" to 1/4". To check for alignment, measure distance A and B between the centerline (CL) of the wheels. The proper toe-in dimension A should be 1/8" 1/4" greater than dimension B.
- b. To adjust the alignments, loosen the lock nuts on both sides of Front Tie Rods. To make Dimension B smaller, turn the rod to left. Adjust the rod to right direction to make Dimension B larger. After adjusting to the desired length, tighten the lock nut against the rod end. Recheck the dimensions for proper alignment.

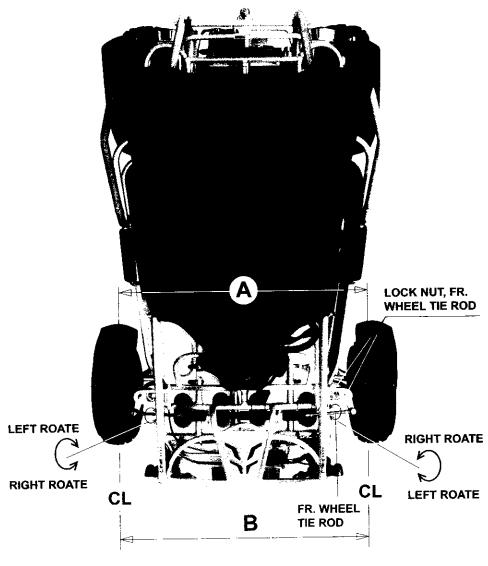


Figure 14

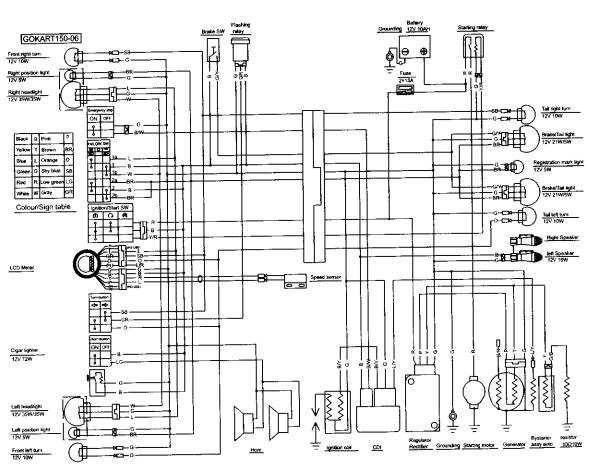
## PERIODICAL CHECK AND SERVICES

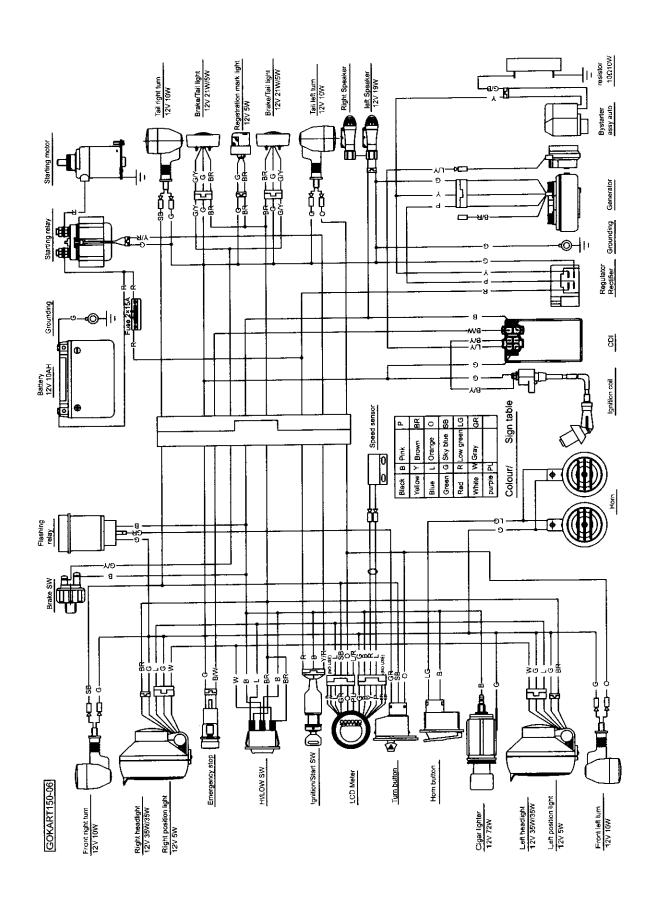
The maintenance intervals in the following table are based upon average driving conditions. Driving in unusually dusty areas, require more frequent servicing.

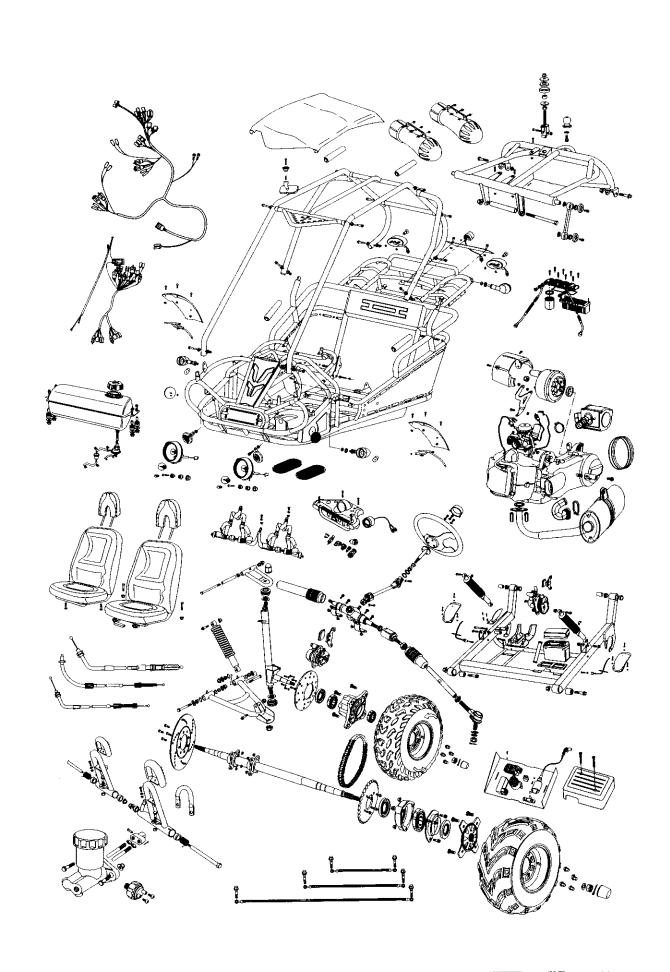
Time of service	Initial service (first week)	Monthly	Quarterly	Yearly
Tire pressure/wear	I	1		
Brake performance	ĺ	1		
Tightness of screws	I	1		
Air cleaner		С		R
Carburetor	1			C
Spark plug			C, A	
Coolent				
Brake oil	I	l .	I	
Replace gearbox oil		C, I	R	
Chassis	1		L	
Fuel switch/fuel tank		l l		C
Battery			l	
Valve clearance of engine			Α	

A: adjust C: clean I: inspect, clean or replace if necessary. L: lubricate R: replace

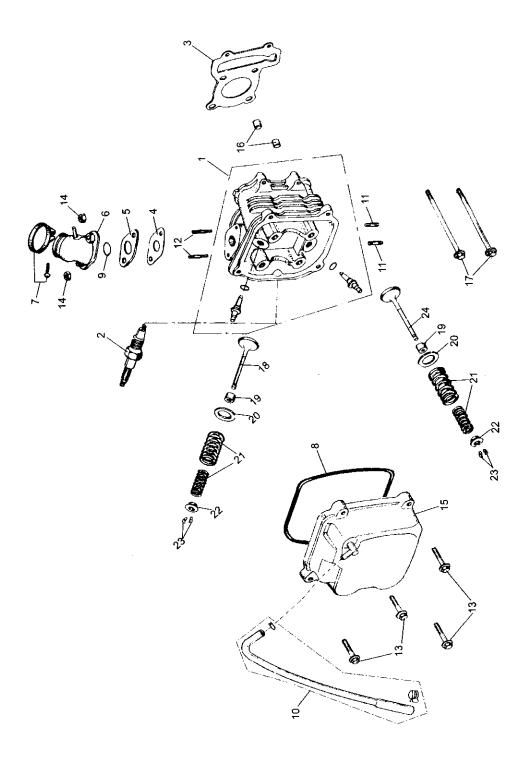
## **WIRING DIAGRAM**







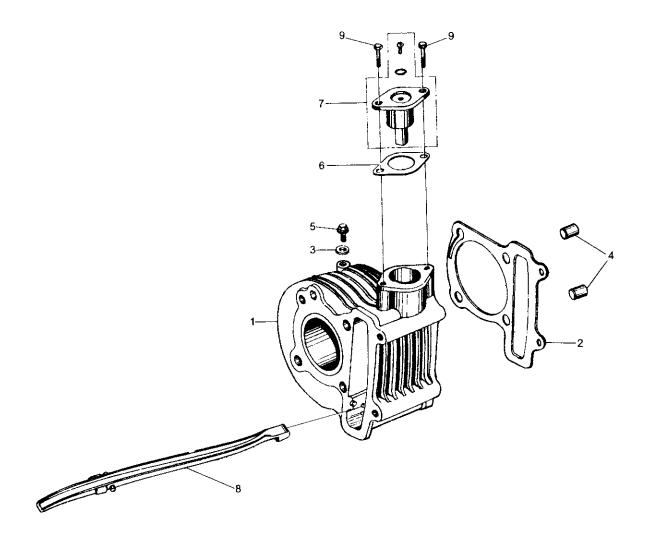
## CYLINDER HEAD ASSY.



REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	M150-100-1320	CYLINDER HEAD SUBASSY	1
_ <del>'</del>	98056-57713-00	SPARK PLUG (C7HSA NGK)	1
_ <del></del>	M150-1001010	CYLINDER HEAD GASKET	1
4	M150-1001004	CARBURETOR INSULATOR GASKET	1
5	M150-1001005	CARBURETOR INSULATOR	1
6	M150-1001210	PIPE COMP. IN	1
7	M150-1001220	INSULATOR BAND	1
8	M150-1001103	HEAD COVER GASKET	1
9	M150-1001201	O-RING 27X2	1
10	M150-1001001	BREATHER TUBE	1
11	M150-1001011	STUD BOLT M6X18	2
12	M150-1001006	STUD BOLT M6X50	2
13	M150-B-1003075	FLANGE BOLT M6X25	4
14	95500-06001-KAS	NUT FLANGE M6-ZN. D	2
15	M150-1001100	CYLINDER HEAD COVER COMP.	1
16	M150-1001007	DOWEL PIN 10X16	2
17	M150-1003007	CYLINDER HEAD BOLT FLANGE M6X100	2
18	M150-1001301	IN VALVE	1
19	M150-1001310	VALVE STEM SEAL	2
20	M150-1001302	VALVE SPRING OUTER SEAT	2
21	M150-1001303	VALVE OUTER, INNER SPRING	2
22	M150-1001305	VALVE SPRING RETAINER	2
23	M150-1001306	VALVE COTTER	4
24	M150-1001307	EX. VALVE	1

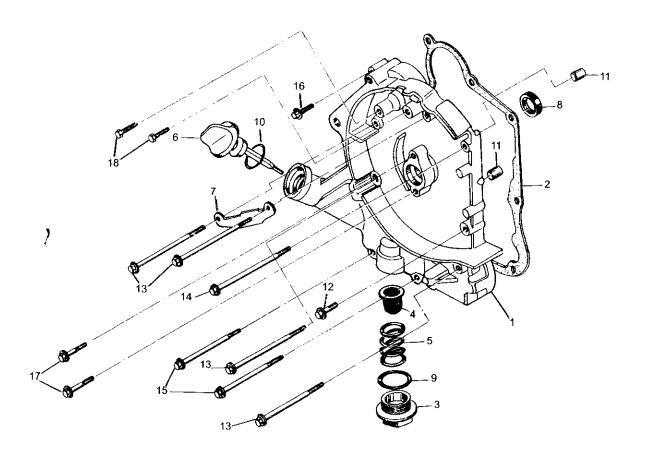
1

## CYLINDER ASSY.



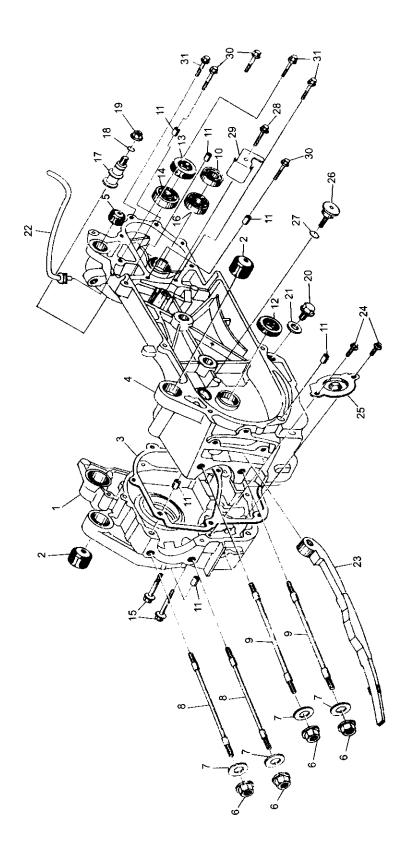
CYLINDER ASSY.			
REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	M150-1002200	CYLINDER COMP.	1
2	M150-1002001	CYLINDER GASKET	11
3	90442-06000-KAT	WASHER SEALING 6	1
4	M150-1001007	DOWEL PIN 10X16	2
5	96001-06012-KAT	FLANGE BOLT M6X12-ZN. D	1
6	M150-1002002	GASKET TENSIONER LIFTER	1
7	M150-1002100	TENSIONER LIFTER ASSY.	1
8	M150-1002300	CAM CHAIN GUIDE COMP.	11
9	96001-06020-KAT	FLANGE BOLT 6X20	2

## **CRANKCASE ASSY. (1)**



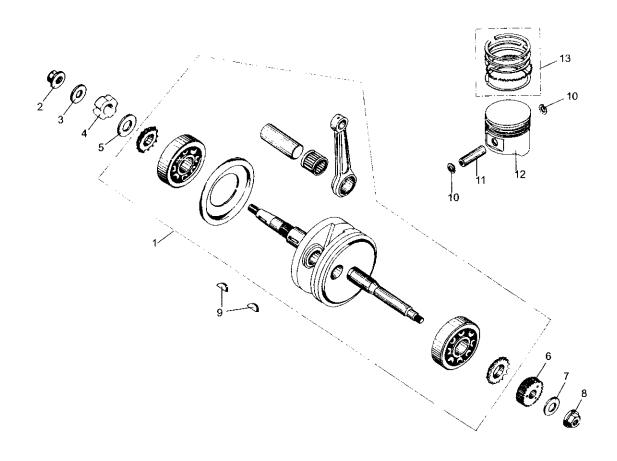
	C	RANKCASE ASSY.(1)	
REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	M150-1003101-B	R CRANKCASE COVER COMP.	1
2	M150-1003013	CRANKCASE COVER GASKET	1
3	M150-1003104	CAP TAPPET ADJUSTING HOLE	1
4	M150-1003120	OIL FILTING SCREEN	1
5	M150-1003102	OIL FILTING SCREEN SPRING	1
6	M150-1003105	OIL LEVEL GAUGE	1
7	M150-1003006	AC GENERATOR CORD CLAMPER	1
8	M150-1003110	OIL SEAL 19.8X30X5	1
9	M150-1003103	O-RING 30.8X3	1
10	M150-1003307	O-RING 18X3	1
11	M150-1003005	DOWEL PIN 8X14	2
12	96001-06032-KAT	FLANGE BOLT M6X28	1
13	M150-1003012	FLANGE BOLT M6X95	4
14	M150-1003007	FLANGE BOLT M6X100	1
15	M150-1003008	FLANGE BOLT M6X110	2
16	M150-1003034	FLANGE BOLT M6X35	1
17	M150-1003106	FLANGE BOLT M6X20	2
18	92101-05012-OH	HEX BOLT M5X12-ZN.D	2

## **CRANKCASE ASSY. (2)**



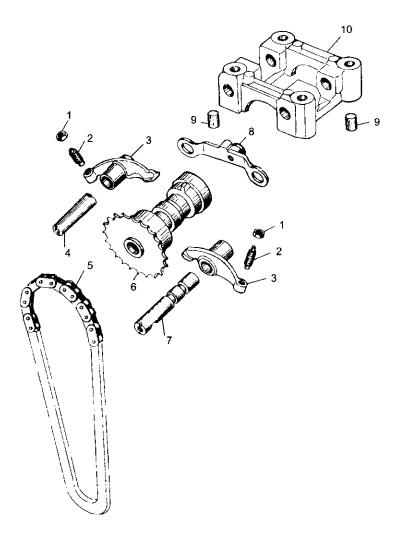
CRANKCASE ASSY.			REGD NO.
REF NO.	PART NO.	DESCRIPTION	
_1	M150-1003210-B	CRANKCASE ASSY, R	1
_2	M150-1003320	ENGINE HANGER RUBBER BUSH	2
3	M150-1003014	CRANKCASE GASKET	1
4	M150-1003310	CANKCASE ASSY. L	11
5	M150-1003330	RR CUSHION UNDER RUBBER BUSH	111
6	M150-1003003	FLANGE NUT M8	4
7	M150-1003004	WASHER Φ8	4
8	M150-1003001	STUD BOLT M8X187.5	2
9	M150-1003002	STUD BOLT M8X195.5	22
10	91004-E6002-KAT	RADIAL BALL BEARING E6002	11
11	M150-1003005	DOWEL PIN 8X14	6
12	M150-1003110	OIL SEAL 19.8X30X5	11
13	M150-1003340	OIL SEAL 27X42X7	11
14	91004-E6004-2RS	RADIAL BALL BEARING E6004-2RS	1
15	M150-1003032	FLANGE BOLT M6X50	2
16	91004-E6301-KAT	RADIAL BALL BEARING E6310	11
17	M150-1003015	BRAKE SHOE ANCHOR PIN	11
18	M150-1003016	OIL SEAL 7.5X15	1
19	M150-1003600	FLANGE NUT M8	1
20	M150-1003018	DRAIN PLUG BOLT M12	1
21	M150-1003019	DRAIN PLUG WASHER Φ12	1
22	M150-1003400	BREATHER TUBE	1
23	M150-1003500	CAM CHAIN TENSIONER	1
24	M150-1003203	FLANGE BOLT M6X12	2
25	M150-1003202	OIL SEPARATOR	1
26	M150-1003022	CAM CHAIN TENSIONER PIVOT	1
27	M150-1003023	OIL SEAL 15.2X12	1
28	96001-06014-KAT	FLANGE BOLT M6X14	1
29	M150-1003021	KICK RETURN STOPPER PLATE	1
30	M150-1003021	FLANGE BOLT M6X35	3
31	M150-1003011	FLANGE BOLT M6X25	3
	141100 1000011		
			-

## CRANKSHAFT CON'ROD & PISTON ASSY.



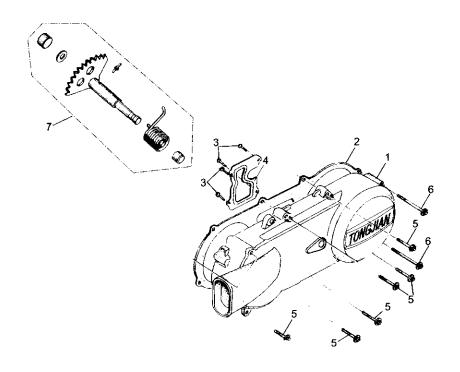
CRANKSHAFT CON'ROD & PISTON ASSY.			
REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	M150-1004100	CRANKSHAFT & CONROD ASSY.	1
2	M150-1004007	NUT M12X1.25	1
3	M150-1004011	WASHER 12-149HV 12-140HV	1
4	M150-1004009	LOCKING NUT	1
5	M150-1004013	WASHER	1
6	M150-1004012	KICK DRIVE GEAR	1
7	M150-1040005	WASHER Φ12	1
8	M150-1004008	NUT M12	1
9	M150-1004002	WOODRUFF KEY	2
10	M150-1004003	PISTON PIN CLIP	2
11	M150-1004006	PISTON PIN	1
12	M150-1004001	PISTON	1
13	M150-1004200	PISTON RING SET	1

### CAMSHAFT ASSY.



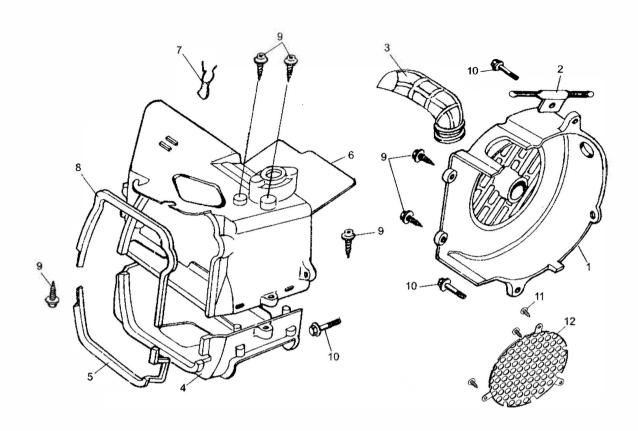
CAMSHAFT ASSY.			
REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	M150-1005004	TAPPET ADJUSTING NUT	2
2	M150-1005003	TAPPET ADJUSTING SCREW	2
3	M150-1005002	VALVE ROCKER ARM	2
4	M150-1005005	EX ROCKER ARM SHAFT	1
5	M150-1005400	CAMSHAFT CHAIN	1
6	M150-1005300	CAMSHAFT COMP. 16T	1
7	M150-1005200	IN ROCK ARM SHAFT COMP.	1
8	M150-1005100	STOPPER PLATE COMP.	1
9	M150-1001007	DOWEL PIN 10X16	2
10	M150-1005001	CAMSHAFT HOLDER	1

### LEFT COVER ASSY.



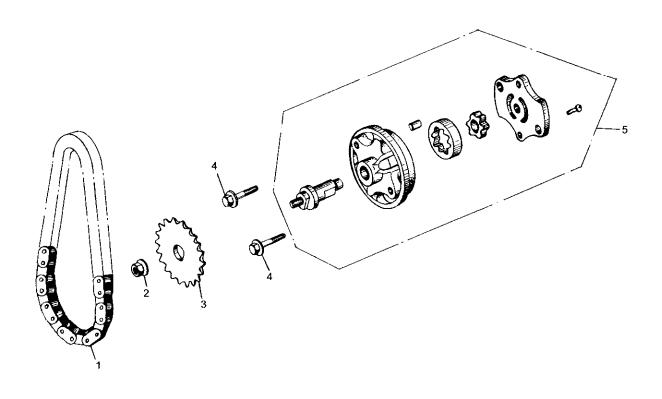
LEFT COVER ASSY.			
REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	M150-1008101	COVER L	1
2	M150-1008005	L COVER GASKET	1
3	93903-00428-KAT	TAPPING SCREW ST4.2X8-F-H	4
4	M150-1008102	L COVER PLATE	1
5	M150-1003034	FLANGE BOLT M6X40	6
6	M150-1008006	FLANGE BOLT M6X65	2
7	M150-1008200	KICK STARTER ASSY. SPINDLE COMP.	1

### **FAN COVER AND SHROUD ASSY.**



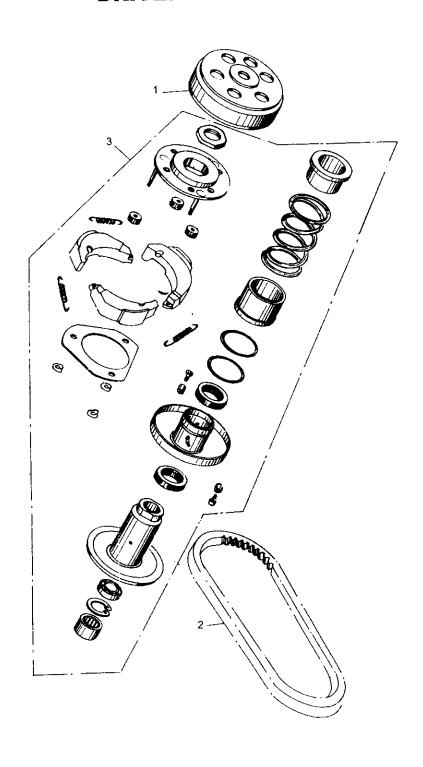
	FA	N COVER AND SHROU	ID ASSY.
REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	M150-1009410	FAN COVER COMP.	1
2	M150-1009002	STARTER CABLE CLAMPER	1
3	M150-1009401	FAN SHROUD COOLING DUCT	1
4	M150-1009301	LOWER SHROUD	1
5	M150-1009302	LOWER SHROUD SEAL	1
6	M150-1009110	UPPER SHROUD COMP.	1
7	M150-1009103	HIGH TENSION CORD CLIP	1
8	M150-1009102	UPPER SHROUD SEAL	1
9	M150-1009402	SCREW ST4.8X16-F	6
10	M150-1003075	BOLT M6X25	3
11	ST3.5X13 GB845	SCREW ST3.5×13-F	3
12	8.020.179	DUST COVER	1

### OIL PUMP ASSY.



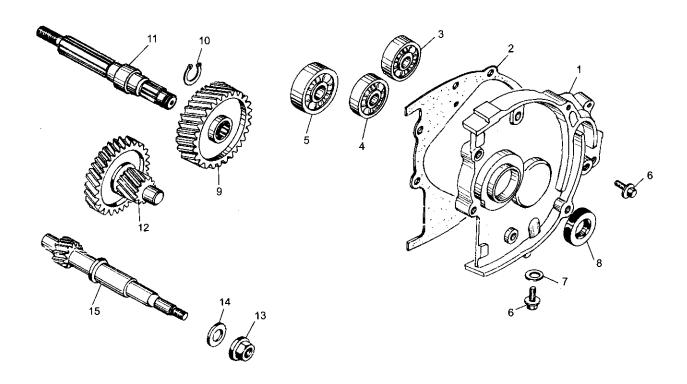
OIL PUMP ASSY.			
REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	M150-1021000	OIL PUMP CHAIN	1
2	M150-1020002	FLANGE NUT M6	1
3	M150-1020001	OIL PUMP DRIVEN SPROCKET	1
4	M150-B-1003075	BOLT M6X25	2
5	M150-1022000	OIL PUMP SUBASSY.	1

# DRIVEN PULLEY AND CLUTCH SUBASSY.



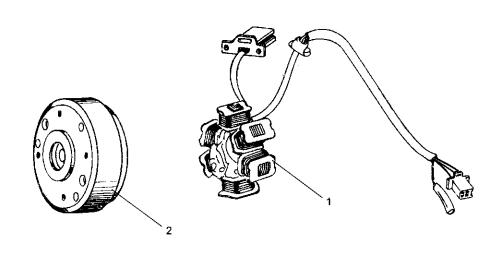
DRIVEN PULLEY AND CLUTCH SUBASSY.			
REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	M150-1032000	CLUTCH ASSY. OUTER	1
2	M150-1033000	DRIVE BELT	11
3	M150-1031000	DRIVEN PULLEY ASSY.	11

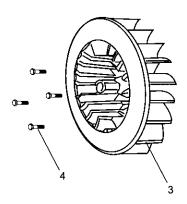
# TRANSMISSION ASSY.



TRANSMISSION ASSY.			
REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	M150-1040001	TRANSMISSION COVER	1
2	M150-1041000	TRANSMISSION COVER GASKET	1
3	91004-E6203-KAT	RADIAL BALL BEARING E6203	1
4	91004-E6202-KAT	RADIAL BALL BEARING E6202	1
5	91004-E6204-KAT	RADIAL BALL BEARING E6204	1
6	M150-1040008	SPECIAL BOLT M8X12	2
7	M150-1040002	WASHER Φ8	11
8	M150-1042000	OIL SEAL 20X32X6	1
9	M150-1040004	FINAL GEAR	1
10	94510-20000	EXTERNAL CIRCLIP 20	1
11	M150-1040003	FINAL SHAFT	1
12	M150-1043000	COUNTER SHAFT COMP.	1
13	M150-1040007	COMPRESSOR FLANGE NUT M12	1
14	M150-1040005	WASHER Φ12	1
15	M150-1040006	DRIVE SHAFT	1

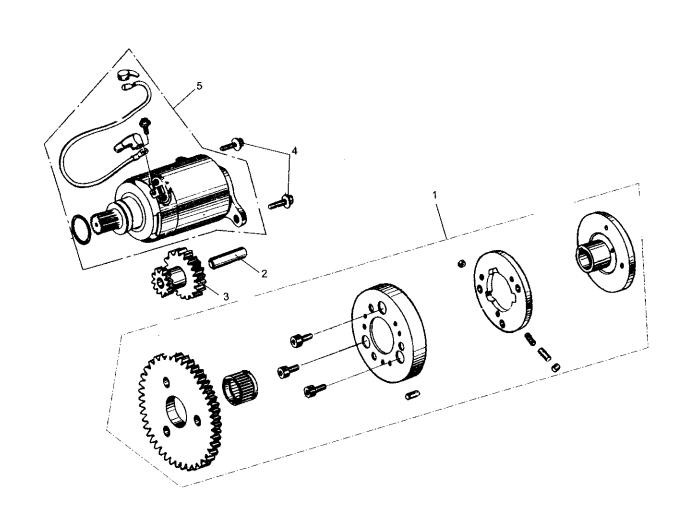
### **ELECTRIC SYSTEM**





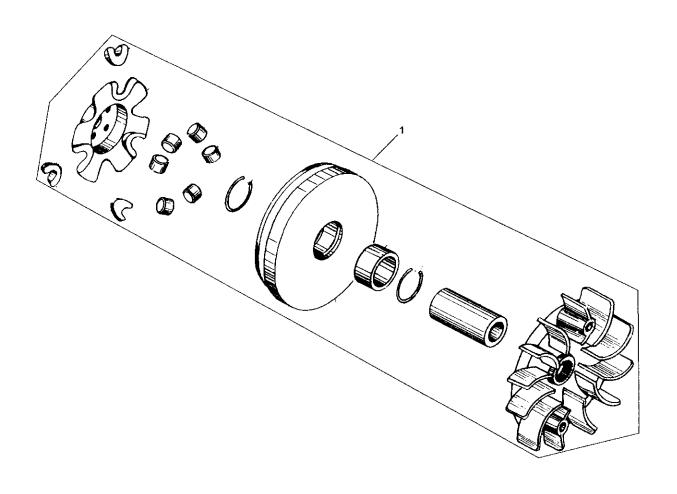
	ELECTRIC SYSTEM				
REF NO.	PART NO.	DESCRIPTION	REGD NO.		
1	M150-1051200-8	STATOR COMP.	1		
2	M150-1051100	FLYWHEEL COMP.	1		
3	M150-1051100-3	COOLING FAN COMP.	1		
4	M150-1051100-4	FLANGE BOLT M6x18	4		

# ELECTRIC STARTER ASSY.



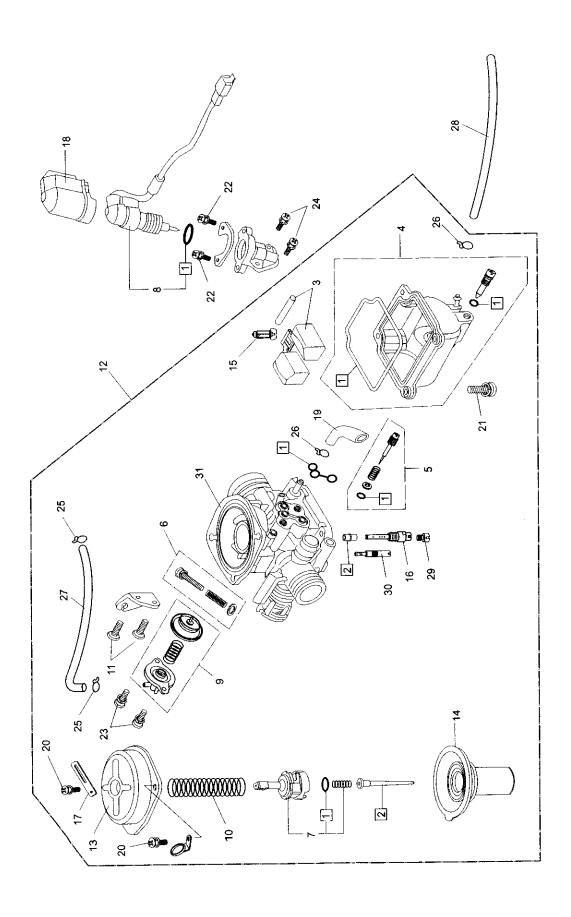
DESCRIPTION	REGD NO
PEF NO. PARI NO.	1
1 M150-1060001 FLANGE STARTING CLUTCH	CHAET 1
2 M150-1060002 STARTER REDUCTION GEAR S	
STARTER REDUCTION GEAR	
FLANGE BOLT M6X16	2
4 MIDO-1000000	11
5 M150-1064000 STARTER MOTOR ASST.	

### DRIVE PULLEY SUBASSY.



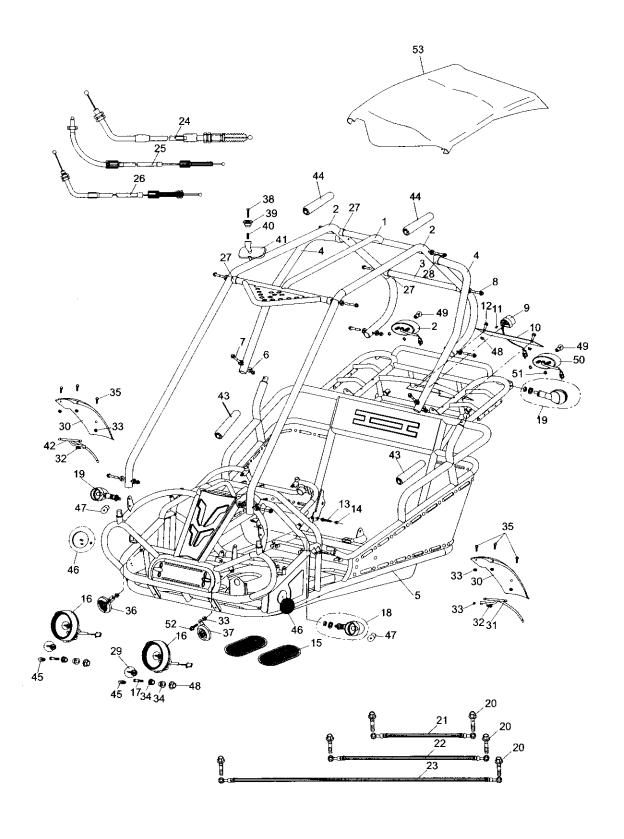
DRIVE PULLEY SUBASSY.			
REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	M150-1071000	MOVABLE DRIVE PULLEY ASSY.	1

# CARBURETOR



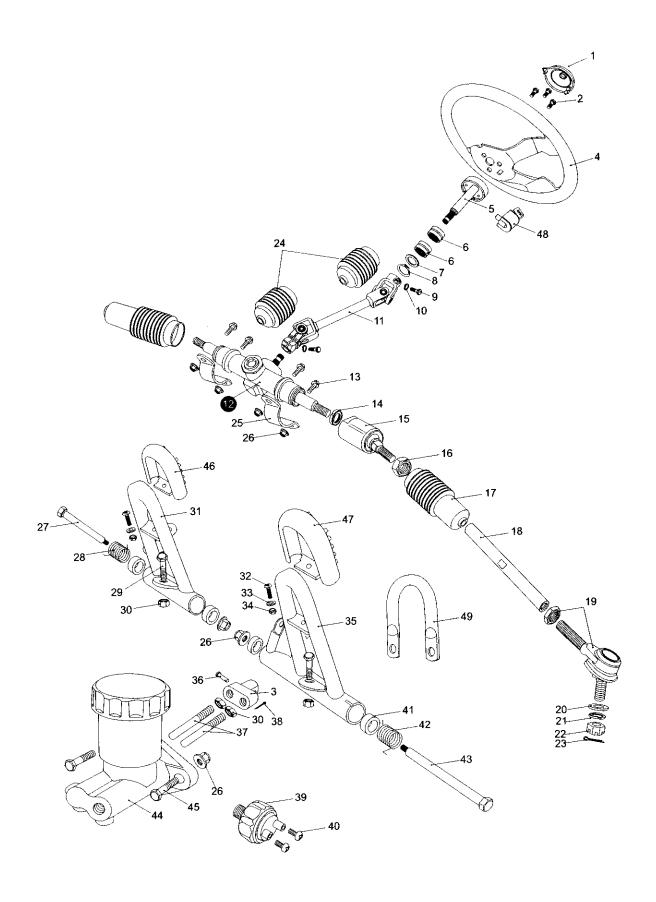
CARBURETOR			
REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	16010-KAT-901	GASKET SET A	1
2	16012-KAT-903	JET NEEDLE SET	1
3	16013-KAT-904	FLOAT SET	1
4	16015-KAT-905	FLOAT CHAMBER SET	1
5	16016-KAT-906	SCREW SET A	1
6	16028-KAT-907	SCREW SET B	1
7	16037-KAT-908	VALVE PLATE SET	1
8	16046-KAT-909	AUTO BYSTARTER ASSY.	1
9	16048-KAT-910	AIR CUT VALVE SET	1
10	16050-KAT-911	COMPRESSION COIL SPRING	1
11	16080-KJ9-003	PAN SCREW M5x12	1
12	16100-KAT-913	CARBURETOR ASSY.	2
13	16107-KAT-914	ТОР	1
14	16111-KAT-915	VACUUM PISTON COMP.	1
15	16155-KAT-902	FLOAT VALVE COMP.	1
16	16165-KAT-916	NEEDLE JET HOLDER	1
17	16179-KAB-670	BINDER	1
18	16190-GJ2-004	HOLDER CAP.	1
19	95005-45270-50	TUBE	1
20	93500-04008	PAN SCREW M4x8	1
21	93500-04014-1H	PAN SCREW M4x14	2
22	93892-04008-18	SCREW-WASHER M4x8	4
23	93892-04010-18	SCREW-WASHER M4x10	2
24	93892-05012-18	SCREW-WASHER M5x12	2
25	95002-02079	TUBE CLIP (B7)	2
26	95002-02089	TUBE CLIP (B8)	2
27	95005-35200-21	TUBE 3.5x210	2
28	16199-GT8-600	TUBE	1
29	99101-GHB-0112	MAIN JET 112#	1
30	99103-GY6-0350	SLOW JET 35#	1
31	16100-KAT-923	CARBURETOR BODY	1
<del></del>			

### **FRAME GROUP**



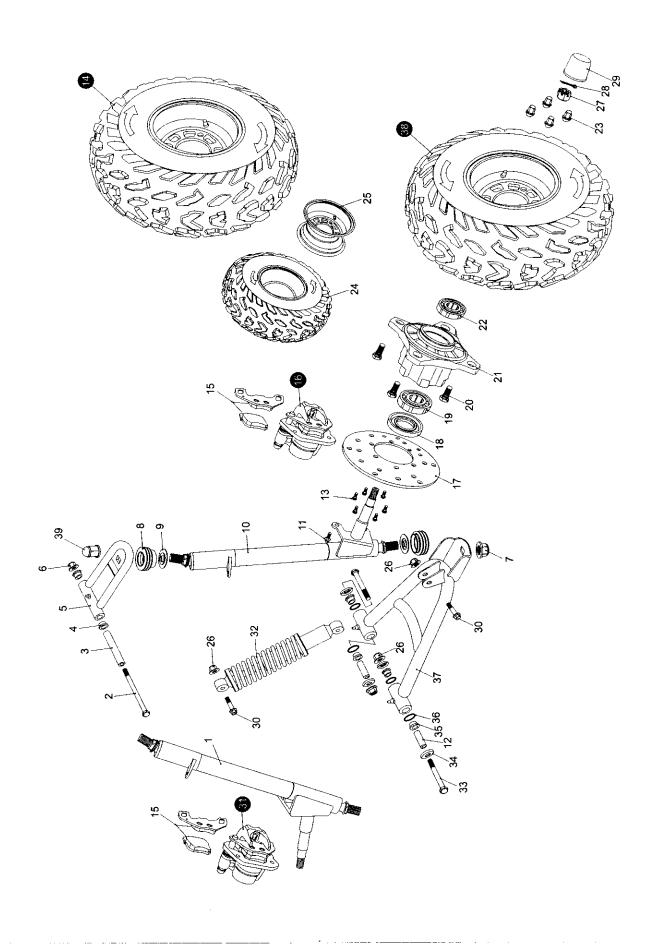
	FRAME GROUP			
REF NO.	PART NO.	DESCRIPTION	REGD NO.	
1	6.000.261	C.B.C. CROSS BAR, FR (B.R.S.)	1	
2	8.070.049	C.B.C. BAR CAGE (B.R.S.)	2	
3	8.080.042	C.B.C. CROSS BAR, RR (B.R.S.)	11	
4	8.070.048	C.B.C. BAR, L./R. SIDE (B.R.S.)	2	
5	2.000.048	FRAME COMP. (B.R.S.)	11	
6	8.010.047	R-WASHER	18	
7	9.908.050N	SOCKET BOLT M8 x 1.25 x 50	6	
8	9.908.055N	SOCKET BOLT M8 x 1.25 x 55	10	
9	6.000.241	LICENSE LIGHT ASSY.	1	
10	7.010.065	LICENSE PLATE	1	
11	9.804.003	SCREW ST3.5x10	2	
12	9.108.020	BOLT M8 x 20	2	
13	9.112.025	BOLT-WASHER M12 x 1.25 x 25	2	
	9.220.012	LOCKING FLANGE NUT M12	2	
14	7.020.012	RUBBER FOOT PLATE	2	
15		HEADLIGHT UNIT	2	
16	6.000.104	BOLT-WASHER M8 x 1.25 x 50	2	
17	9.108.050	WINKER LIGHT ASSY. L. FR./R.RR.	2	
18	6.000.155	WINKER LIGHT ASSY. E. FR./L.RR.	2	
19	6.000.156	BANJO BOLT M10x24	6	
	9.700.004	BRAKE HOSE ASSY. L. 34"	1	
21	6.000.089	BRAKE HOSE ASSY. R. 43"	1	
22	6.000.090	I	1	
23	6.000.230	BRAKE HOSE ASSY, RR. 80"	1	
24	6.000.232	THROTTLE CABLE COMP.	1 1	
25	6.000.040	REVERSE CABLE COMP.	1	
26	6.000.231	PARKING BRAKE CABLE COMP.	6	
27	7.010.017	TUBE SEAT Ф25	2	
28	7.010.016	TUBE SEAT Ф32		
29	9.090.003	HEADLIGHT BULB 35W/35W/ 12V	2	
30	7.010.034	FENDER, FR.	2	
31	6.000.067	FRONT FENDER BRACKET, L.	1	
32	9.100.640	BOLT M6 x 40	2	
33	9.210.008	LOCKING FLANGE NUT M6	10	
34	7.020.049	HEADLIGHT RUBBER MOUNT	4	
35	9.106.014	BOLT-WASHER M6 x 14	6	
36	6.000.135	HORN, H.	1 1	
37	6.000.136	HORN, L.	1	
38	9.100.525	BOLT M5 x 25	1	
39	8.010.086	REAR MIRROR MOUNT	11	
40	8.040.005	REAR VIEW MIRROR SPRING	1	
41	6.000.084	REAR MIRROR ASSY.	1	
42	6.000.102	FRONT FENDER BRACKET, R.	11	
43	6.000.083	FOAM PADDING-1	2	
44	6.000.116	FOAM PADDING-2	2	
45	9.000.004	POSITION LIGHT BULB 3W 12V	2	
46	6.000.114	FRONT REFLECTOR	2	
47	9.090.006	WINKER BULB 10W 12V	4	
48	9.220.008	NUT M8	4	
49	9.090.005	TAIL LIGHT BULB 21W/5W 12V	2	
50	6.000.144	TAIL LIGHT	2	
51	9.210.006	LOCK NYLON NUT M6	4	
52	9.106.012	BOLT M6 x 12	2	
52 53	6.000.269	BIKINI TOP	1	

# STEERING SHAFT ASSY.



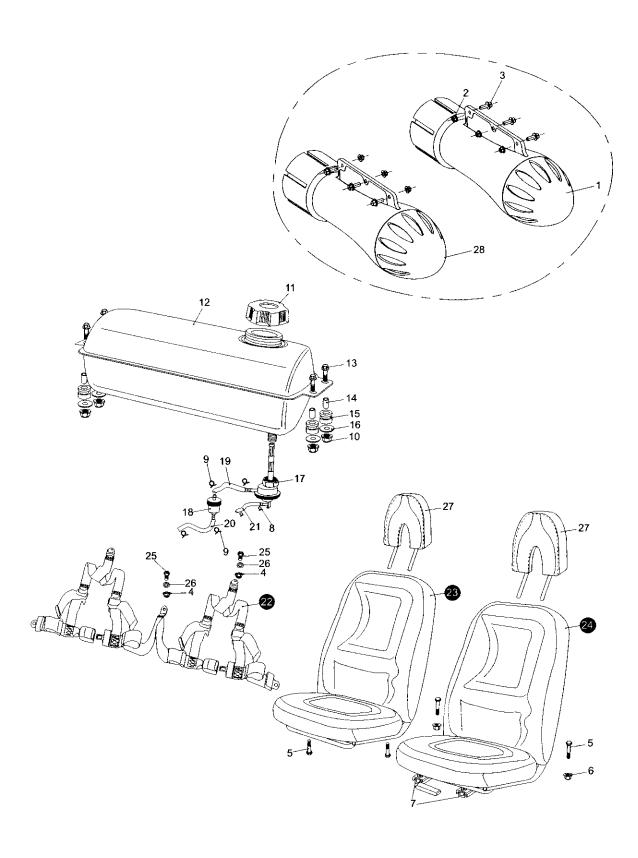
REF NO.	PART NO.	DESCRIPTION	REGD NO.	
1	7.010.041	STEERING BOLT COVER	1	
2	9.100.612	BOLT STRAP M6x12	3	
3	8.030.024	SPINDLE BRACKET	1	
4	7.020.038	STEERING WHEEL	1	
5	6.000.122	STEERING SHAFT	1	-
6	9.030.012	BEARING NK20/16	2	
7		SPECIAL WASHER Φ20	1	
·	9.700.020	CIRCLIP Ф20	1	•
8	9.700.120	BOLT M8x25	2	
9	9.100.825		2	
10	9.400.008	100/11/10	1	
11	6.000.093	STEERING KNUCKLE	1	
12	4.000.035	STEERING GEAR	4	
13	9.108.025	BOLT-WASHER M8x1.25x25	<del></del>	
14	9.900.016	ROUND NUT M16x1.5	2	
15	4.000.008	STEERING BALL JOINT	2	
16	9.200.010	NUT M10	2	
17	7.020.002	BALL JOINT DUST COVER. L.	2	
18	8.010.157	TIE ROD	2	
19	6.000.062	ROD END	2	
20	9.300.010	FLAT WASHER Φ10	2	
21	9.400.010	LOCKING WASHER Φ10	2	
22	9.800.010	CASTLE NUT M10	2	
23	9.500.215	COTTER PIN Ф2x15	2	_
24	7.020.066	BALL JOINT DUST COVER	2	
25	8.020.014	STEERING GEAR BRACKET	2	
26	9.220.008	LOCKING FLANGE NUT. M8	8	
27	9.708.145	THROTTLE PEDAL BOLT M8x1.25x145	1	
		THROTTLE PEDAL RETURN SPRING, L	1	
28	8.040.001	BOLT-WASHER M8x1.25x40	2	
29	9.108.040		2	
30	9.200.008	NUT M8	1	
31	4.000.016	THROTTLE PEDAL COMP.	<del></del>	
32	9.600.515	PAN SCREW M5x15	2	
33	9.300.005	FLAT WASHER Φ5	2	
34	9.210.005	NYLON LOCK NUT M5	2	
35	4.000.015	BRAKE PEDAL COMP	1	_
36	9.700.624	PIN 6x24	1	
37	8.010.081	SPINDLE PIN	2	
38	9.500.212	COTTER PIN 2X12	11	
39	6.000.063	BRAKE LAMP SWITCH ASSY.	1	
40	9.600.306	PAN SCREW M3x6	2	
41	7.010.004	PEDAL BUSH	4	
42	8.040.007	BRAKE PEDAL RETURN SPRING, R	1	
43	9.708.222	BRAKE PEDAL BOLT M8x1.25x222	1	
44	6.000.076	MASTER CYLINDER	1	
45	9.108.035	BOLT-WASHER M8x1.25x35	2	
46	7.020.036	THROTTLE PEDAL PAD	1	
47	7.020.037	BRAKER PEDAL PAD	1	
48	6.000.134	STEERING WHEEL LOCK	1	
49	8.070.044	MASTER CYLINDER BRACKET	1	
43	0.070.044	WAS TER STEINDER BROOKET	2	•
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# SUSPENSION ARM ASSY.



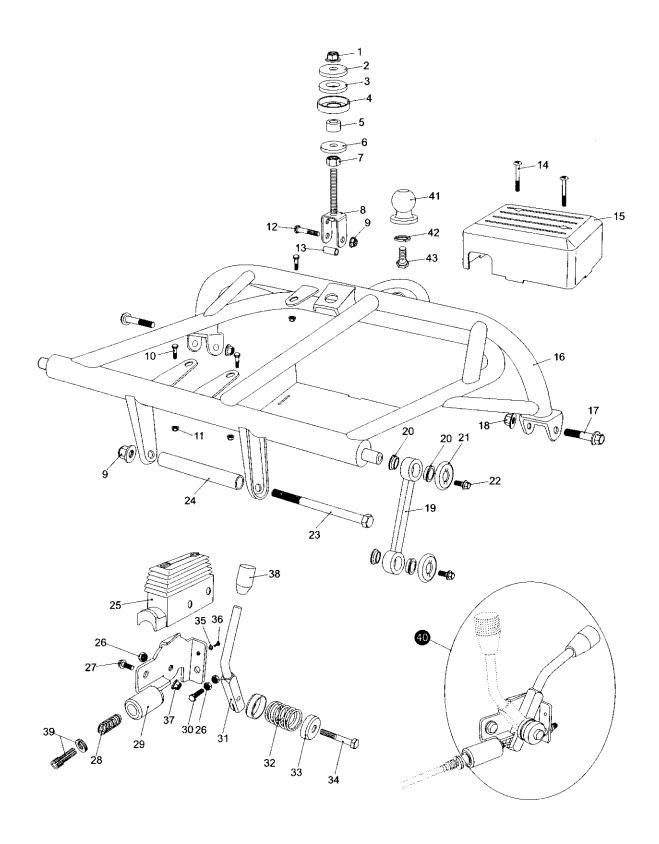
REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	2.000.028	STRUT AND SPINDLE SUPPORT, R	
2	9.108.105	BOLT-WASHER M8x1.25x105	1
3	8.010.015		2
4	7.010.003	UPPER SUSPENSION ARM COLLAR	2
5	4.000.004	UPPER SUSPENSION ARM BUSH	4
6	9.220.008	UPPER SUSPENSION ARM	2
7	7.010.140	LOCKING FLANGE NUT. M8	2
8	7.020.025	LOCKING FLANGE NUT. M12	4
9	8.020.053	BALL HEAD SPACED	4
10	2.000.027	BALL HEAD SPACER	4
11	9.908.014	STRUT AND SPINDLE SUPPORT, L	1
12	8.010.014	BOLT STRAP M8x14	4
13	9.906.012	LOWER SUSPENSION ARM COLLAR	4
14	6.000.141	BOLT STRAP M6x12	12
15		FR. WHEEL ASS'Y. R 20x7-8	1
16	7.020.016	PAD SET. FR. BRAKE CALIPER	2
17	6.000.028	FRONT BRAKE CALIPER. L	1
	8.010.054	DISC. FR. BRAKE	2
18	9.040.002	DUST SEAL 47x25-7	2
19	9.030.002	BEARING 6204-Z	2
20	9.710.031	TIRE BOLT M10x1.25x31	8
21	8.010.085B	FR. WHEEL HUB	2
22	9.030.010	BEARING 6202-Z	2
23	8.010.118	CAP LUG NUT M10	8
24	7.020.050	TIRE. FR 20x7-8	2
25	6.000.142B	RIM. FR	2
26	9.220.010	LOCKING FLANGE NUT M10	16
27	9.800.012	CASTLE NUT M12	2
28	9.500.220	COTTER PIN Ф2x20	2
29	7.020.039	FR. HUB COVER.	2
30	9.110.040	BOLT-WASHER M10x1.25x40	4
31	6.000.095	FRONT BRAKE CALIPER. R	1
32	6.000.325	CUSHION ASSY. FR L=325	2
33	9.110.080	BOLT-WASHER M10x1.25x80	4
34	8.020.034	LOWER SUSPENSION ARM DUST CAP	8
35	7.010.002	LOWER SUSPENSION ARM BUSH	8
36	9.040.001	O-RING Φ 21.2x2.65	8
37	4.000.023	LOWER SUSPENSION ARM ASSY.	2
38	6.000.140	FR. WHEEL ASSY. L 20x7-8	1
39	8.010.140	ACORN NUT M12	2

### SPEAKER/SEAT/BELT



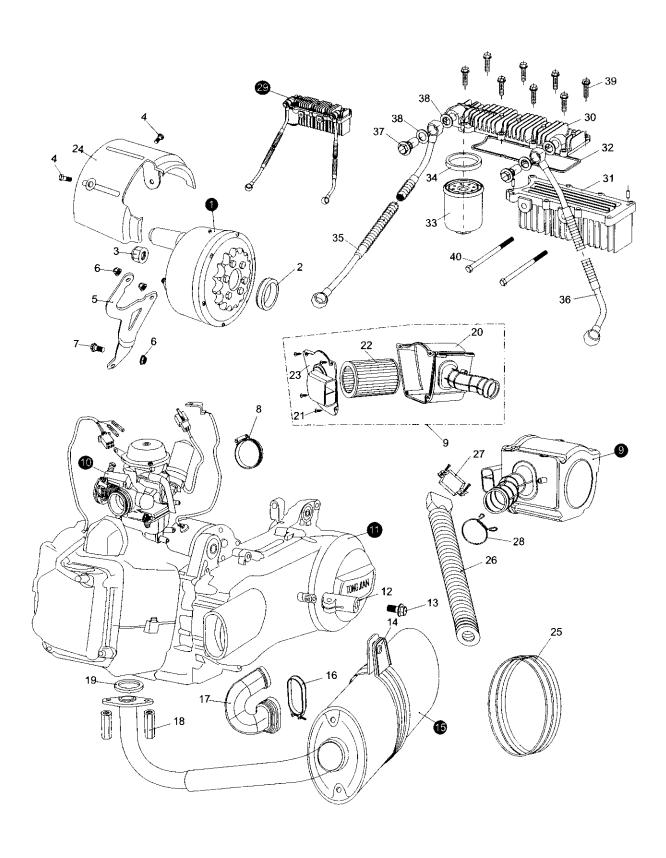
- <u></u>	S	PEAKER/SEAT/BELT	
REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	4.000.037	AUXILIARY SPEAKER	1
2	9.210.006	SPEAKER BOLT	4
3	9.106.014	LOCKING NUT	4
4	9.7000.003	NUT BELT M7/16"	1
5	9.900.840	BOLT STRAP M8X1.25X40	2
6	9.220.008	LOCK FLANGE NUT M8	2
7	6.000.057	SEAT RALL SET	1
8	8.040.008	VACUUM TUBE	2
9	8.040.009	FUEL TUBE CLIP	1
10	9.220.008	LOCK FLANGE NUT. M8	1
11	6.000.145	FUEL TANK CAP COMP.	1
12	4.000.029	FUEL TANK COMP.(B.R.S)	1
13	9.108.025	BOLT-WASHER M8X1.25X25	4
14	8.010.034	TANK COMP. COLLR	4
15	7.020.005	RUBBER MOUNT	4
16	9.300.008	FLAT WASHER Φ8	4
17	6.000.046	FUEL AUTO COCK ASSY.	1
18	6.000.056	GAS FILTER	1
19	7.020.030	FUEL #1 TUBE COMP.	1
20	7.020.029	FUEL #2 TUBE COMP.	1
21	7.020.031	VACUUM TUBE COMP.	1
22	6.000.146	SAFETY BELT	1
23	6.000.263	SEAT COMP. R	1
24	6.000.264	SEAT COMP. L	1
25	9.700.001	SPECIAL BOLT M7/16"X28	1
26	9.700.002	BELT WASHER Φ12	1
27	6.000.262	HEAD-REST	2
28	4.000.036	MIAN AUXILIARY	1
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### **REAR SWING ARM ASSY. UPPER**



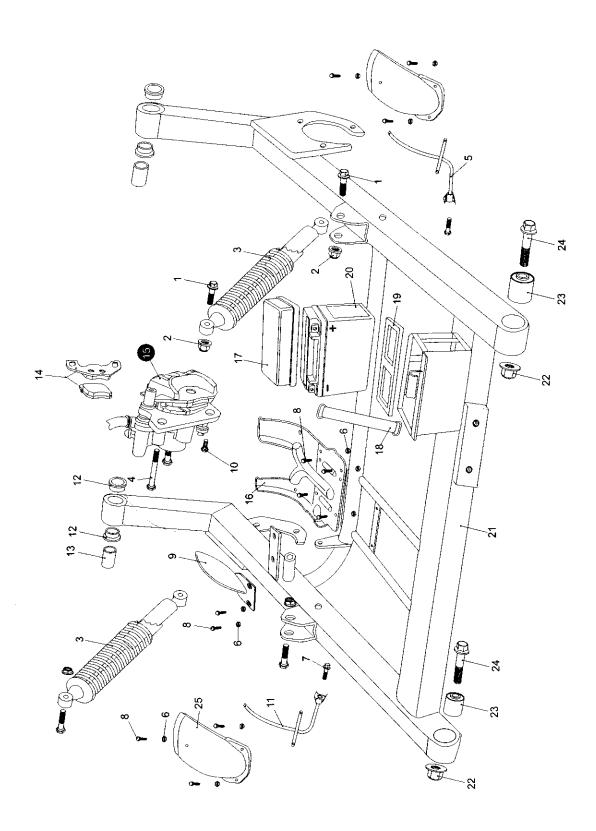
т	REAR SWING ARM ASSY. UPPER			
REF NO.	PART NO.	DESCRIPTION	REGD NO.	
1	9.220.012	LOCKING FLANGE NUT M12	1	_
2	8.010.042	ENGINE MOUNT LINK WASHER	1	_
3	7.020.001	ENGINE MOUNT LINK CUSHION	1	
4	8.020.045	ENGINE MOUNT LINK SPACER	1	_
5	8.010.041	ENGINE MOUNT LINK COLLAR	1	
6	9.300.012	FLAT WASHER Φ12	1	
7	9.200.012	NUT M12	1	
8	6.000.026	ENGINE MOUNT BOLT PLATE	1	
9	9.220.010	LOCKING FLANGE NUT M10	1	_
10	9.106.022	BOLT-WASHER M6x22	3	
11	9.210.008	LOCKING NYLON NUT M6	3	
12	9.110.045	BOLT-WASHER M10x1,25x45	1	
13	8.010.076	ENGINE MOUNT BOLT PLATE COLLAR	1	
14	9.600.655	PAN SCREW M6x55	2	••
15	7.010.029			
16	2.000.029	ELECTRIC ASSY, COVER	1	
17		REAR SWING ARM ASSY. UPPER	1	
	9.112.060	BOLT-WASHER M12x1.25x60	2	
18	9.220.012	LOCKING FLANGE NUT M12	2	
19	8.030.001	SWING ARM DOG BONE	2	
20	7.010.008	CON' ROD BUSH	8	
21	8.020.013	CON' ROD SPACER	4	
22	9.108.016	BOLT-WASHER M8x1.25x16	4	
23	9.710.195	BOLT-WASHER M10x1.25x195	1	
24	8.010.025	ENGINE MOUNT COLLAR	1	
25	7.020.024	REVERSE LEVER COVER	2	
26	9.210.008	LOCKING NYLON NUT M8	6	
27	9.108.020	BOLT-WASHER M8x1.25x20	2	
28	8.040.004	CABLE SPRING	2	
29	6.000.064	LEVER BRACKET	2	
30	9.100.830	BOLT M8x30	1	
31	6.000.065	LEVER, REVERSE, PARKING BRAKE	2	
32	8.040.003	LEVER SPRING	2	
33	8.020.082	LEVER SPACER	4	
34	9.108.040	BOLT-WASHER M8x1.25x40	2	
35	9.300.005	WASHER FLAT Ф5	·	
36	9.600.512	PAN SCREW M5x12	2	
37	9.220.008		2	
38	7.020.026		4	
39	6.000.051	LEVER. GREEN / BLACK COVEV CABLE ROD ADJUSTING	2	
40	6.000.051		2	
		PARKING BRAKE/REVERSE LEVER ASSY.	2	
41	8.010.084	TOW BALL	1	
42	9.400.018	WASHER LOOK Φ18	1	
43	9.118.040	BOLT M18x40	1	

# **ENGING/MUFFLER/AIR CLEANER**



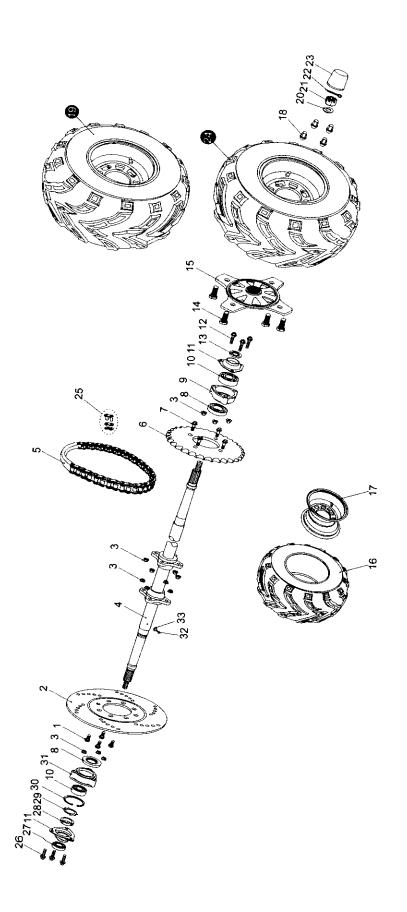
ENGINE/MUFFLER/AIR CLEANER			
EF NO.	PART NO.	DESCRIPTION	REGD NO.
1	6.000.157	REVERSE ASSY.	1
_2	8.010.122	INTERNAL COLLAR REVERSE	1
3	9.220.016	LOCKING FLANGE NUT M16	1
4	9.106.012	BOLT-WASHER M6x12	2
5	8.020.173	REVERSE BRACKET	1
6	9.220.008	LOCKING FLANGE NUT M8	3
7	9.908.040	BOLT STRAP M8x1.25x40	1
8	8.020.056	AIR CLEANER CLAMP	1
9	4.000.018	AIR CLEANER ASSY.	1
10	6.000.024	CARBURETOR	1
11	2.000.009	ENGINE. 150cc	<u> </u>
12	8.030.037	MUFFLER RACK SUPPORT	1
13	9.110.020	BOLT-WASHER M10x1.25x20	1
14	8.020.166	MUFFLER CLAMP	1
15	6.000.229	MUFFLER COMP. EX	1 1
16	8.020.055	BOOT CLAMP	1
17	6.000.162		1 1
18		BOOT, SIDE CASE	11
19	9.040.027	MUFFLER JOINT NUT M6	2
20	9.040.005	EX. PIPE GASKET	1
	7.010.047	AIR CLEANER CASE COMP	11
21	9.805.003	TAPPING M5x16 SCREW	4
22	6.000.151	ELEMENT. AIR CLEANER	11
23	7.010.048	AIR CLEANER COVER	1
24	7.010.033	CHAIN PROTECTOR. RR	11
25	7.020.054	RUBBER CUSHION.	1
26	7.010.057	AIR CLEANER DUCT	1
27	8.020.176	AIR CLEANER CLAMP	1
28	8.040.013	AIR CLEANER CLIP	1
29	4.000.028	ENGINE OIL COOLER	1
30	8.030.034	ENGINE OIL COOLER, UPPER COVER	1
31	8.030.035	ENGINE OIL COOLER SEAT	1
32	7.020.065	SEAL GASKET	1
33	6.000.218	OIL FILTER	1
34	7.020.064	SEAL GASKET	1
35	6.000.216	OIL TUBE, L	1
36	6.000,217	OIL TUBE, R	1
37	8.010.149	BOLT	2
38	8.020.178	GASKET	4
39	9.106.020	FLANGE BOLT M6x20	8
40	9.108.075	FLANGE BOLT M8x75	2
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# **REAR SWING ARM**



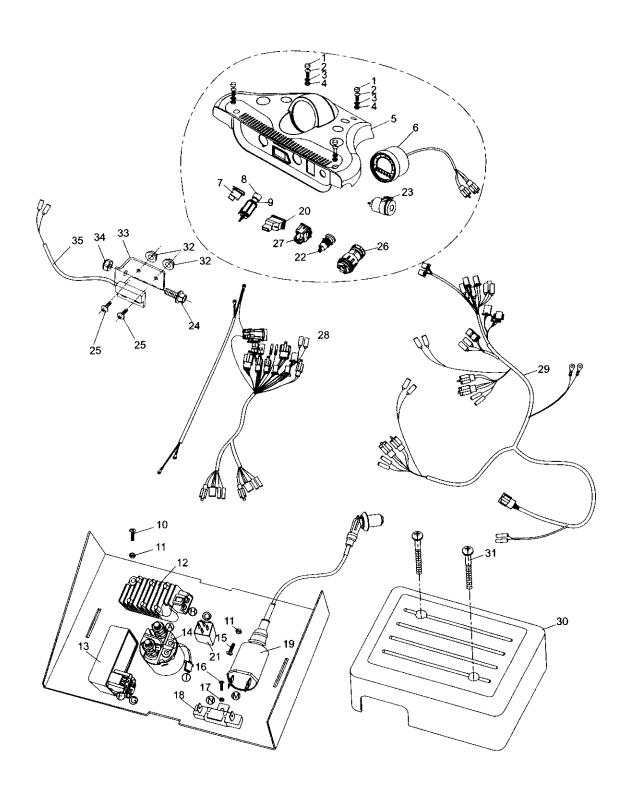
DEF NO	PART NO.	DESCRIPTION	REGD NO.
REF NO.	9.110.040	BOLT-WASHER M10x1.25x40	4
1		LOCKING FLANGE NUT M10	4
2	9.220.010	CUSHION ASSY. RR	2
3	6.000.006	BOLT STRAP M8x1.25x100	1
4	9.908.100	REAR FENDER BRACKET, L	1
5	6.000.101	LOCKING NYLON NUT M6	12
6	9.210.006	BOLT-WASHER M8x1.25x45	2
7	9.108.045	BOLT-WASHER M6x16	12
8	9.906.016		1
9	7.010.031	DISC. RR COVER	
10	9.908.012	BOLT STRAP M8x1.25x12	_ 1
11	6.000.068	REAR FENDER BRACKET, R	1
12	7.010.006	SWING ARM BUSH	4
13	8.010.028	SWING ARM COLLAR	2
14	7.020.022	RR. BRAKE PAD SET	1
15	6.000.229	CALIPER ASSY, RR	1
16	7.010.032	CHAIN DISC GUARD	1
17	7.010.028	BATTERY COVER	1
18	7.020.023	BATTERY BAND	1
19	7.020.020	BATTERY LOWER CUSHION	1
20	6.000.085	BATTERY (YTX12-BS)	1
21	2.000.042	RR. SWING ARM COMP. LOWER	1
22	9.220.012	LOCKING FLANGE NUT M12	2
23	7.020.008	SWING ARM CUSHION BUSH	2
24	9.112.060	BOLT-WASHER M12x1.25x60	2
25	7.010.064	FENDER RR	2

### **REAR HOUSING**



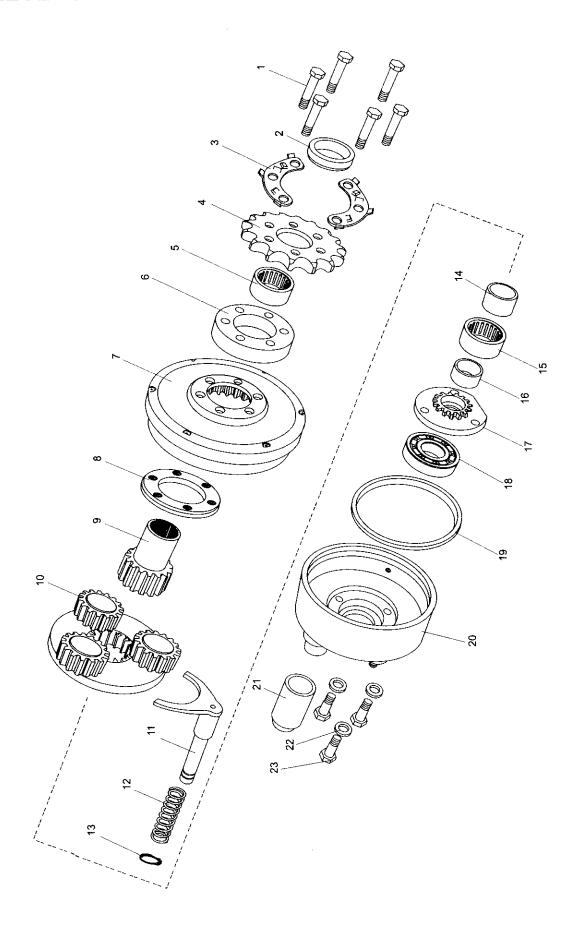
		REAR HOUSING	
REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	9.108.022	BOLT-WASHER M8x1.25x22	4
2	8.010.053	BRAKE DISC. RR	1
3	9.220.008	LOCKING FLANGE NUT M8	14
4	8.010.057B	REAR AXLE	1
5	9.070.002	CHAIN O-RING DRIVE	1
6	8.010.077	REAR SPROCKET	1
7	9.108.027	BOLT-WASHER M8x1.25x27	4
<del></del>	9.040.006	DUST SEAL 50X34-7	2
9	8.030.008	AXLE BRG HOUSING COMP. RR	2
10	9.030.006	BEARING 6206	2
11	8.020.028	BEARING BASE	2
12	9.108.040	BOLT-WASHER M8x1.25x40	6
13	9.040.007	DUST SEAL 42X30-7	2
14	9,710.031	TIRE BOLT M10x1.25x31	8
15	8.010.089B	REAR AXLE HUB	2
15 16	7.020.052	TIRE. RR 22x10-10	2
17	6.000.143B	RIM. RR	2
18	8.010.118	CAP LUG NUT M10	8
19	6.000.148	REAR WHEEL ASSY. R	1
20	9.700.016	SPACER, RR. WHEEL Φ16	2
21	9.800.016	CASTLE NUT M16	2
22	9.500.430	COTTER PIN Ф4X30	2
23	7.020.039	COVER. RR. HUB	2
24	6.000.147	REAR WHEEL ASSY. L	1
25	6.000.149	CHAIN MASTER LINK	1
26	9.108.045	BOLT-WASHER M8x1.25x45	3
27	9.040.008	DUST SEAL 42X28-7	1
28	9.900.030	ROUND NUT M30X1.5	1
29	8.020.181	KEEPER	1
30	9.700.300	CIRCLIP Ф62	1
31	8.030.033	AXLE BRG HOUSING COMP. RR	1
32	9.600.308	SCREW PAN M3X8	1
33	7.050.001	MAGNETIC STEEL	1
	7.000.001		
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# WIRE HARNESS/ELECTRICAL



REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	7.010.061	BOLT COVER	4
2	9.600.615	PAN SCREW M6X15	4
3	9.300.006	WASHER Φ6	4
	9.210.005	LOCKING NYLON NUT M6	4
4		SWITCH PANEL COVER	1
5	7.010.063	SPEEDOMETER	1
6	4.000.038	HORN SWITCH	1
7	6.000.079	POWER OUTLET COVER	1
8	7.020.051		1
9	6.000.087	POWER OUTLET	2
10	9.100.620	BOLT M6X20	1
11	9.210.006	LOCKING NYLON NUT M6	V
12	6.000.124	RECTIFIER COMP.REGULATE	3
13	6.000.267	UNIT COMP.C.D.I	1
14	6.000.035	STARTING RELAY	1
15	9.600.525	PAN SCREW M5X25	1
16	9.600.410	PAN SCREW M4X10	1
17	9.210.004	LOCKING NYLON NUT M4	11
18	6.000.038	RESISTOR COMP 10W 10Ω	1
19	6.000.126	IGNITION COIL COMP	1
20	6.000.113	WINKER SWITCH UNIT	1
21	6.000.072	CONTROL RELAY	1
22	6.000.159	ENGINE STOP BUTTON	1
23	6.000.153	AUDIBLE PILOT&WINKER REPLAY COMP	1
24	9.106.014	BOLT M6X14	1
25	9.600.310	BOLT M3X10	2
26	6.000.158	IGNITIION START SWITCH	1
27	6.000.160	DIMMER SWITCH UNIT	1
28	6.000.160	WIRE HARNESS (rear section)	1
	6.000.266	SOCKET COMP (front section)	1
29		ELECTRIC ASSY. COVER	1
30	7.010.029	PAN SCREW M6X55.	2
31	9.600.655		2
32	9.600.310	PAN NUT M3	
33	8.020.197	SENSOR BRACKET	1
34	9.210.006	NYLON LOCK NUT M6	1
35	6.000.268	SENSOR	1
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### **REVERSE ASSY.**



REF NO.	PART NO.	DESCRIPTION	REGD NO
1	9.100.625	BOLT M6x25	6
2	8.010.122	INTERNAL COLLAR	1
3	8.020.167	KEEPER	6
4	8.010.123	DRIVE SPROCKET	1
5	9.030.007	NEEDLE BEARING 26x35x20	1
6	8.010.119	BEARING FLANGE PLATE	1
7	8.010.169	GEAR CASE. L	1
8	8.010.170	GEAR CASE FLANGE PLATE	1
9	8.010.124	DRIVE GEAR	1
10	6.000.222	COUNTER GEAR SHAFT COMP	1
11	8.010.125	GEAR SHIFT YOKE	1
12	8.040.012	GEAR SHIFTING YOKE SPRING	1
13	9.700.112	CIRCLIP Ф12	1
14	8.010.121	DRIVE GEAR BUSHING	1
15	9.030.008	NEEDLE BEARING 22x30x14	1
16	8.010.126	BUSHING. DRIVE GEAR	1
17	8.030.029	GEAR SEAT	1
18	9.030.003	BEARING 6003 DDU	1
19	7.020.055	RUBBER OIL SEAL	1
20	8.030.028	GEAR CASE. R	1
21	8.010.127	SHIFTING YOKE COVER	1
22	9.400.008	LOCK WASHER Ø8	3
23	9.100.821	SCREW PAN M8x21	3
	0.100.021		
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#### **WARNING STICKERS**



	WARNING STICKERS		
REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	9.090.007	PARKING BRAKE LABEL	1
2	9.090.008	REVERSE LEVER LABEL	1
3	9.090.009	CHAIN GUARD LABEL	1
4	9.090.010	NO LONG HAIR LABEL	1
5	9.090.011	WARNING LABEL	1
6	9.090.012	NO CLIMBING LABEL	1
7	9.090.013	WARNING LABEL	1
8	9.090.014	SEAT BELT LABEL	1
9	9.090.015	HAMMERHEAD FR LABEL	1
10	9.090.016	TWISTER LABEL	3
11	9.090.017	WARNING LABEL	1
12	9.090.018	FUEL TANK LABEL	1
13	9.090.019	SIDE PLATE LABEL	1
14	9.090.020	SIDE PLATE LABEL	1