

# Owner's Manual

READ THIS MANUAL CAREFULLY,  
IT CONTAINS IMPORTANT SAFETY INFORMATION.



**MINIMUM  
RECOMMENDED  
OPERATOR AGE: 16**



## **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.

## **BV Powersports, LLC – EMISSION CONTROL SYSTEM WARRANTY**

This document describes the detailed warranty information for the emission control system on the 2011 Off-Road UTV. It is important to note that all procedures strictly follow standards outlined by the U.S. Environmental Protection Agency (EPA) and the California Air Resources Board (CARB).

BV Powersports, LLC (hereinafter as importer) warrants that each new 2011 and later import off-road vehicle:

**A.** 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

**B.** is free from defects in material and workmanship which cause such vehicle to fail to conform to applicable regulations of the United States Environmental Protection Agency or the California Air Resources Board for the periods specified above.

All new off-road motor vehicles have been designed and built to meet the higher emission standards, and hence the emission control system will be warranted to cover 10,000 km, 1,000 hours of engine operation, or five years after the vehicle is sold, whichever comes first. Importer and/or distributors will repair your vehicle including diagnosis, parts, and labor, at no cost to you. The warranty period commences on the date the vehicle is delivered to the initial retail purchaser, or when the vehicle is first placed in service as a demonstrator, rental, and lease prior to retail sale.

Your emission control system may include parts such as carburetor or fuel injection system, ignition system, catalytic converter, and engine computer, if they are equipped. Also included may be hoses, belts, connectors, as well as other emission-related assemblies.

As part of the emission control system defects warranty, if an emission-related part on your vehicle is defective, the part will be repaired or replaced by any authorized distributors once the vehicle is presented to them.

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

As a vehicle owner, you are responsible for all the required scheduled maintenances listed in your owner's manual. It is recommended that you keep records of all receipts and other supporting documents covering services on your vehicle in order to receive proper warranty of your vehicle. But distributors cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

You are responsible for presenting your vehicle to any authorized distributors promptly after any emission control related problems occur. The warranty replacements or repairs should be completed in a timely matter, typically not to exceed 30 business days.

As the vehicle owner, you should also be aware that any authorized distributors may deny your

warranty coverage if your vehicle or any parts have failed due to personal abuse, neglect, improper maintenance, or unapproved modifications. In particular, this Emission Control System Warranty shall not cover any of the following:

**A.** Repair or replacement as a result of:

- (1) Accident,
- (2) Misuse,
- (3) Repairs improperly performed or replacements improperly installed by unauthorized personnel,
- (4) Use of replacement parts or accessories not conforming to specifications set forth by distributors, which could adversely affect performance and/or,
- (5) Use in competitive racing or related events.

**B.** Replacements of parts, other services, and adjustments for improper maintenance.

**C.** Any vehicle equipped with an odometer or hour meter on which the odometer mileage or hour meter reading has been modified so that actual mileage cannot be readily determined.

This Limited Emission Control System Warranty statement is issued by the importer. No distributor is authorized to make any corrections to this statement.

If you have any questions regarding your warranty rights and responsibilities, you should contact the importer BV Powersports, LLC at 2848 Reward, Dallas, TX 75220. Contact information is as follows:

TEL: 214-792-9388

FAX: 214-792-9355

E-MAIL: [michael@bvpowersports.com](mailto:michael@bvpowersports.com)

Website: [bvpowersports.com](http://bvpowersports.com)

Or please contact the U.S. Environmental Protection Agency, 2000 Traverwood Avenue, Ann Arbor, MI 48105, or (for California registered off-road vehicles only), the California Air Resources Board at 9528 Telstar Avenue, El Monte, CA 91731.

# CONTENTS

| <b>OWNER' S MANUAL</b>                  | <b>Page</b> |
|-----------------------------------------|-------------|
| 1. FOREWORD -----                       | 1           |
| 2. A FEW WORDS ABOUT SAFETY -----       | 2           |
| 3. IMPORTANT SAFETY INFORMATION -----   | 3           |
| 4. SAFETY LABELS -----                  | 5           |
| 5. ARE YOU READY TO DRIVE ? -----       | 6           |
| 6. SAFE DRIVING PRECAUTIONS -----       | 8           |
| 7. P.D.L-----                           | 10          |
| 8. SPECIFICATIONS -----                 | 11          |
| 9. OPERATION -----                      | 13          |
| 10. OPERATION/SERVICE INSTRUCTIONS----- | 17          |
| 11. SERVICE INSTRUCTIONS-----           | 18          |
| 12. REPAIR-----                         | 21          |
| 13. PERIODICAL CHECK AND SERVICES ----- | 23          |



## FOREWORD

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 instructions from your dealer or qualified instructors before and during initial use of the kart. It is also recommended to practice in a large open area and familiar with operations of this kart.

We hope you will have a pleasant experience with our products and thanks 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 carefully.

# IMPORTANT SAFETY INFORMATION

Your Kart will provide you with many years of service and pleasure. Providing you take responsibility for your own safety and understand the challenges you can meet while driving.

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

## **Follow the Age Recommendation**

Adult Supervision should be present for all people 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 pavement, 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 approved by the Go-Kart Safety Institute. 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.

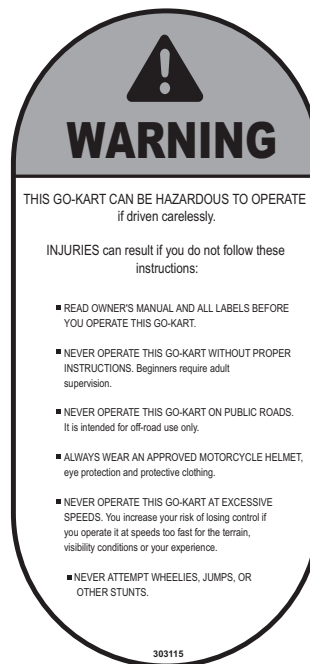
## **Skidding or Sliding**

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.

# SAFETY LABELS

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.

### **WARNING**

**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.**

# ARE YOU READY TO DRIVE ?

## 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 rider 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.



### **WARNING**

**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.



### **WARNING**

**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.



### **WARNING**

**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.

### **WARNING**

**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.

### **WARNING**

**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.

### **WARNING**

**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.**



# SAFE DRIVING PRECAUTIONS

## Control Speed

Driving at excessive speed increases the chance of an accident. In choosing a proper speed, you need to consider the capability of your Kart, the terrain, visibility and other operating conditions, plus your own skills and experience.



### **WARNING**

**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 proper for your Kart, the terrain, visibility and other operating conditions, and your experience.**

## Use Care 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.)



### **WARNING**

**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 terrain. 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.



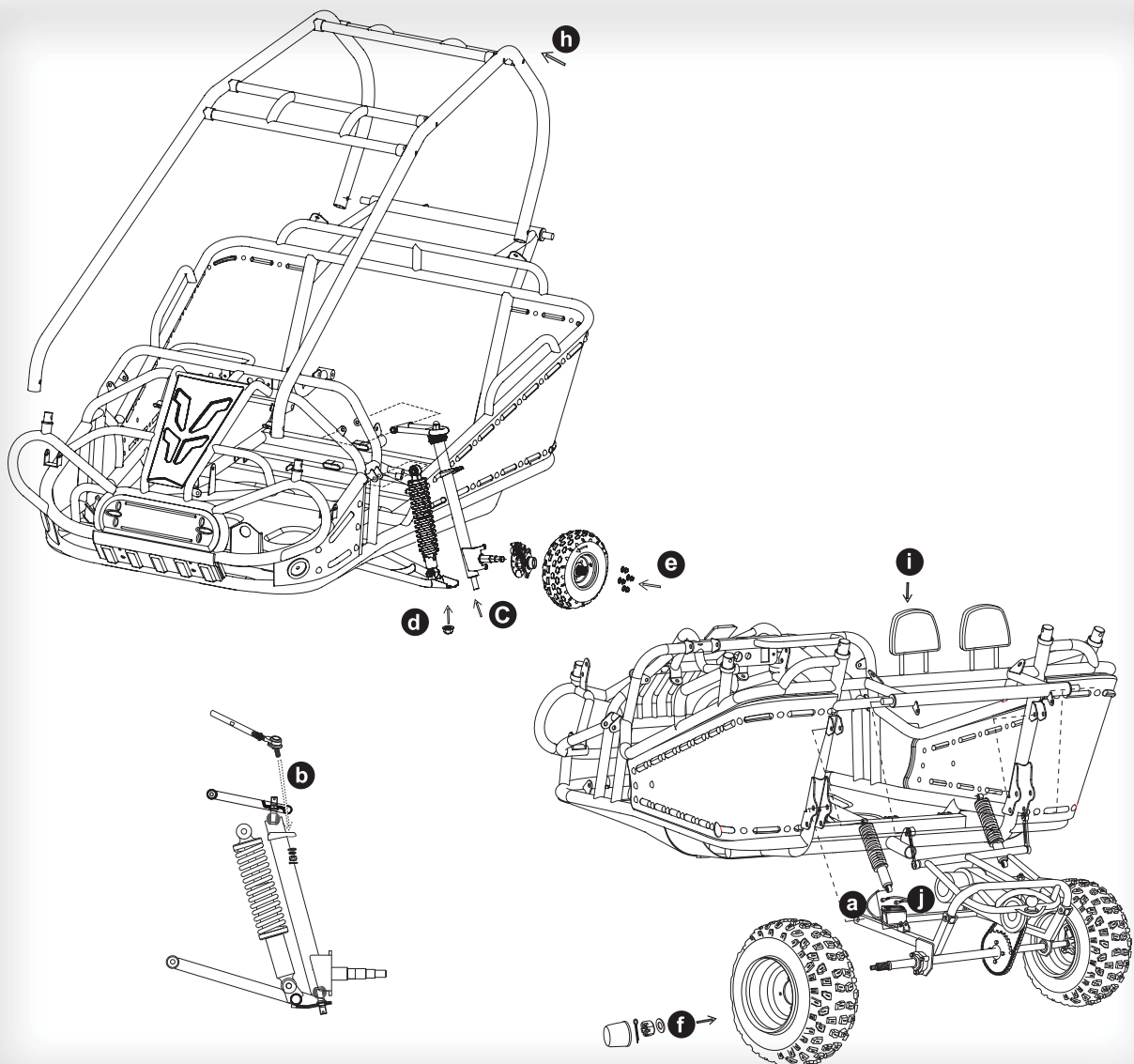
### **WARNING**

**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.**

## P.D.I.

- 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.
- 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.
- l. Fill fuel tank with Unleaded Gasoline, and turn on the ignition switch to start the engine.



# SPECIFICATIONS

## DIMENSIONS

|                        |                    |
|------------------------|--------------------|
| Overall Length -----   | 85 in. (2160mm)    |
| Overall Width -----    | 53 in. (1346mm)    |
| Overall Height -----   | 57.4 in. (1458mm)  |
| Wheelbase -----        | 59 in. (1500mm)    |
| Front Track -----      | 45.7 in. (1160mm)  |
| Rear Track -----       | 39.4 in. (1000 mm) |
| Ground Clearance ----- | 6.7 in. (170mm)    |

## ENGINE

|                                   |                             |
|-----------------------------------|-----------------------------|
| Type -----                        | Forced air-cooled. 4-Stroke |
| Engine capacity -----             | 150cc                       |
| Bore / Stroke -----               | 57.4mm x 57.8mm             |
| Displacement -----                | 149.6cm <sup>3</sup>        |
| Corrected compression ratio ----- | 9.5:1                       |
| Carburator -----                  | PD24J                       |
| Output Power -----                | 6.4Kw/7000rpm               |
| Maximum Torque -----              | 9.5 /6000r/min              |
| Starting -----                    | Electric                    |
| Ignition -----                    | C.D.I.                      |
| Lubrication -----                 | Force & Splash              |
| Transmission -----                | Automatic (C.V.T system)    |
| Spark plug -----                  | CR7HSA(NGK)                 |
| Plug gap -----                    | 0.7-0.8mm                   |
| Fuel Type -----                   | RQ90 (unleaded)             |
| Lubricate oil -----               | SAE-15W/40                  |

## CAPACITIES

|                   |                     |
|-------------------|---------------------|
| Maximum load----- | Double Seats/400lbs |
| Fuel tank -----   | 1.75 Gal            |
| Engine oil -----  | 30 Oz               |
| Starting -----    | <5s                 |
| Climbing -----    | 20 -25              |
| Battery -----     | 12V 10Ah            |
| Head Light -----  | 12V 35W/35W         |
| Tail Light -----  | 12V 21W/5W          |
| Fuse -----        | 10A                 |

# SPECIFICATIONS

Brake Track ----- < 7 m@20miles/h  
Top speed ----- 30 miles/h(or limited as customers require)

## CHASSIS

Front, Rear brake ----- Hydraulic disc, left foot control  
Front tire ----- 20 x 7-8  
Rear tire ----- 22 x 10 -10  
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

## TIRE PRESSURE

Front ----- 8 psi  
Rear ----- 8 psi

## 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 increased 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)

### WARNING

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 located on the left side of the kart (See Fig.1). Applying pressure to the pedal draws the brake caliper around the brake pump at the rear wheel and slows or stops the kart.

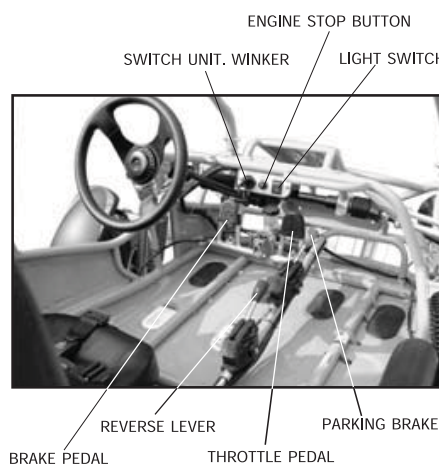
### c. Start engine

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 Stop Button to assure 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.



**Figure 1**

# OPERATION

## B. Pre-Drive Inspection

### **WARNING**

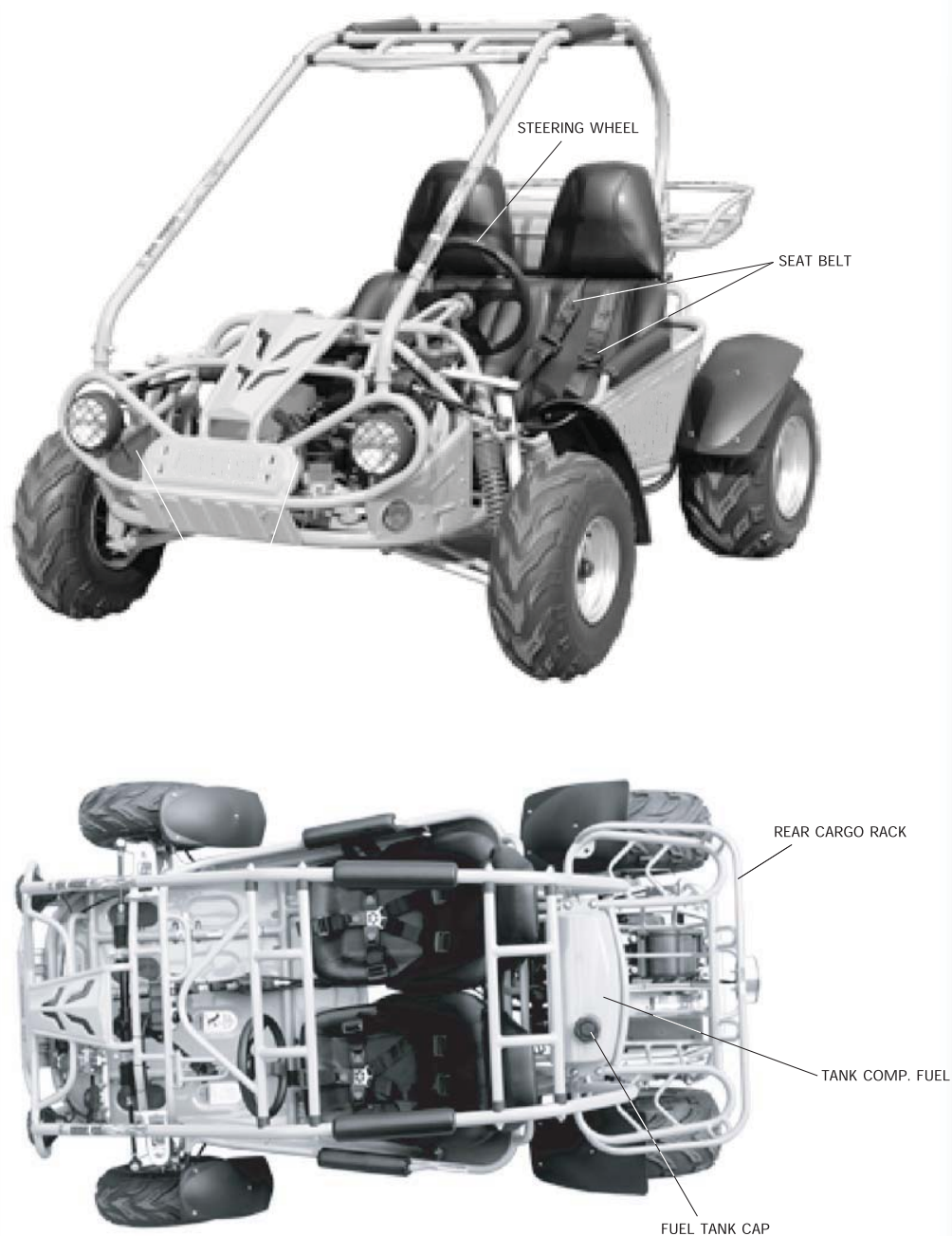
**Perform this pre-drive inspection everyday before driving vehicle. If not performed, serious damage to the vehicle or personal injury may result.**

- a. Check for Engine Oil Level. Check for leaks, add oil if required.
- b. Check for Fuel Level. Add fuel as necessary and do not overfill. Check for leaks.
- c. Check for Brakes. Depress the rear brake pedal several times, then check for proper brake pedal freeplay. Make sure there is no brake fluid leakage. Adjust if necessary.
- d. Check Tires. Check tires condition and pressure. The pressure on both Front and Rear tire is 5 and 8 lbs respectively.
- e. Check Drive Chain. Check for drive chain's condition and tension. Lubricate if necessary.
- f. Check Throttle. Check for smooth operation. Assure throttle "snaps" back to idle.
- g. Check Engine Stop Button. Perform engine stop button test. Repair as necessary.
- h. Check all Nuts, Bolts, and fasteners. Check wheels to see that all axle nuts and lug nuts are tightened properly. Check and tighten as necessary all other fasteners to specified condition.
- i. Check C.B.C Bar. Ensure all protective C.B.C bars are in place before operating the Kart.
- j. Check Brake Light. Check for proper operation.
- k. Check Wheels. Check for tightness of wheel nuts and axle nuts; check that axle nuts are secured by cotter pins.
- l. Check Steering. Check for free operation for any unusual looseness in any area.

### **CAUTION**

**Always follow rules for safe operation and wear a helmet.**

## Component locations



**Figure 2**



# OPERATION

## C. Passengers

The vehicle allows for two riders only. Combine maximum weight of driver and the passenger should not exceed 180kg or 400lbs.

## D. Seat Adjustment

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

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

Figure 3



### WARNING

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



### WARNING

Never operate this Kart when the provided seat is not securely fastened, to do so could result in a strong possibility of severe personal injury or loss of life. Before attempting to adjust the seat, ensure the kart engine is stopped.

## E. Reverse Adjustment

a. Push forward the reverse lever to the "D" position so that the unit can move forward, pull back the lever to "R" so that the unit can move backward. (See Fig.4)

b. When reverse lever is in the drive position, there need to be 1/2 inch of freeplay in the reverse level. If the adjustment is not correct, then loosen the lock nut #2, then adjust lock nut #1 to the proper amount of freeplay.

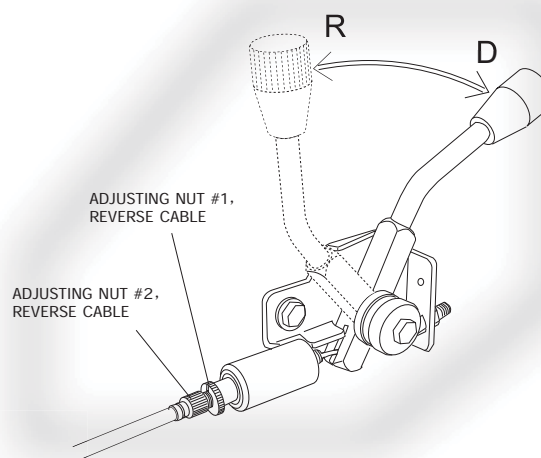


Figure 4

Always stop the kart before changing gears.



# OPERATION/SERVICE INSTRUCTIONS

## F. Starting And Operating Instructions

- a. Before starting the engine, be sure that the driver is seated properly in the Kart with the seat belt.
- b. Testing the Kart in an open space at the beginning to learn how to start, turn and stop.
- c. Operate the Kart slowly until you are familiar with it.
- 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.
- e. To prevent vehicle from rolling over, be sure to only turn the vehicle at a slow more controllable speed. Heel on the ramp of the main board when turning. (See Fig.5) Keep your leg rely on the foot pedal, you can feel the kart is stable because of the gravity is adjusted and won't roll over.



Figure 5

# SERVICE INSTRUCTIONS

## A. Service Air Cleaner

Service air cleaner every 20 hours

NOTE: Service more often under dusty conditions.

- a. Remove cleaner cover
- 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.

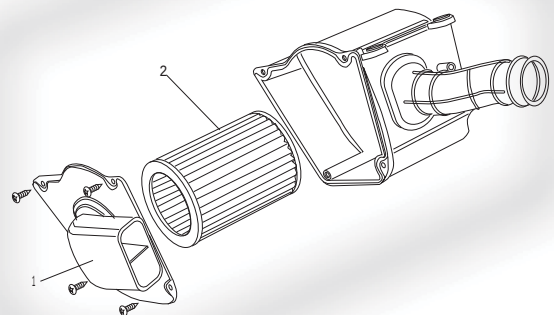


Figure 6

# SERVICE INSTRUCTIONS

## 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 10 hours of use thereafter. That will insure proper lubrication of internal parts and prevent costly repairs due to excessive wear.



**WARNING**

Used Oil Must Be disposed of at a proper collection Center

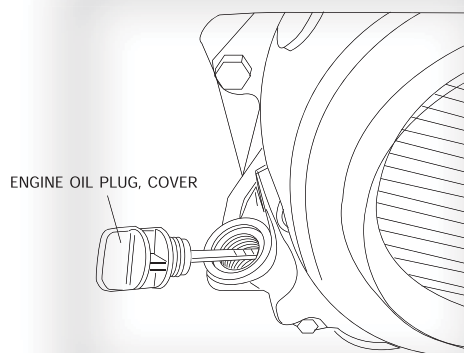
a. Remove drain plug located on the right rear side of engine. Tip kart backwards slightly by blocking up the front end and drain oil into suitable container.

b. Remove and clean Oil Screen.

c. Replace drain plug and tighten securely. Place kart in a level position.

d. Refill crankcase (approximately 1 1/4 pint) to top of filler neck with SAE 10W40 oil. Use same grade of oil as used originally.

e. Check oil level before each use of kart or after each 10 hours of operation. Add oil to bring up to proper level. Do not mix various grades of oil.



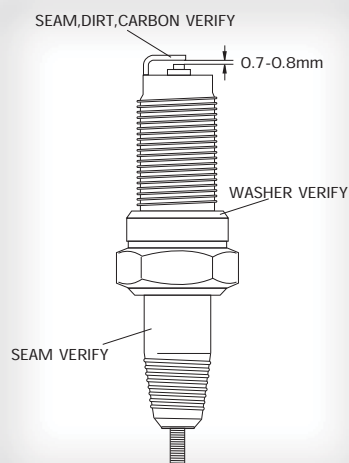
**Figure 7**

## 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 proper engine performance. If possible, check the spark plug gap (area between electrodes) using a wire feeler gauge. This specification is 0.7~0.8mm.

b. Before installing spark plug coat 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 insure easy starting and good engine performance.



**Figure 8**

## D. Carburetor Adjustment

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

# SERVICE INSTRUCTIONS

- 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.

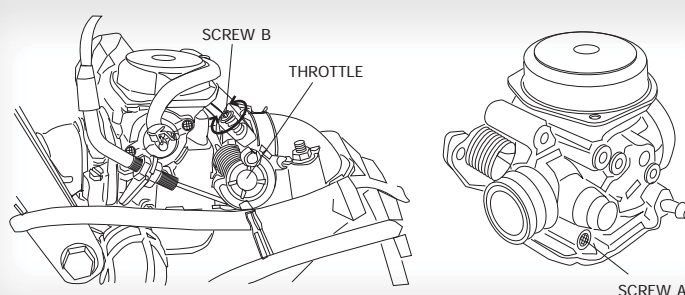


Figure 9

## E. Cleaning Instructions

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

## F. Kart Lubrication

Lubricate vehicle every 90 days of use. Lubrication should be done sooner, if 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)

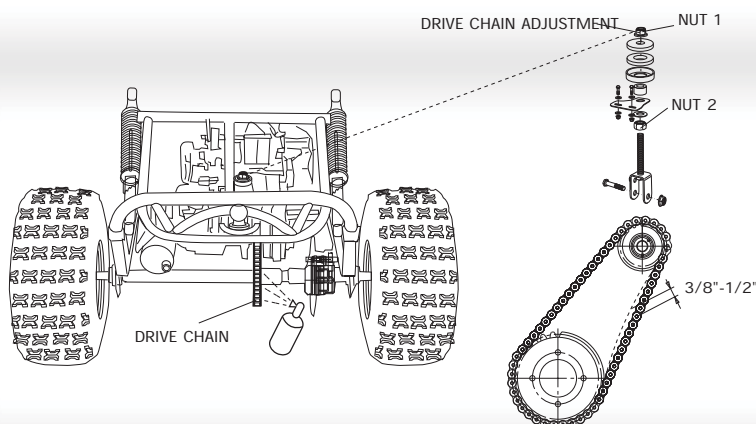


Figure 10

# SERVICE INSTRUCTIONS

## H. Chain Adjustment

Check the chain adjustment after 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 chain is at proper tension (See Fig. 10).
- c. Repeat the above two steps until chain is adjusted to desired fit.

## 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.

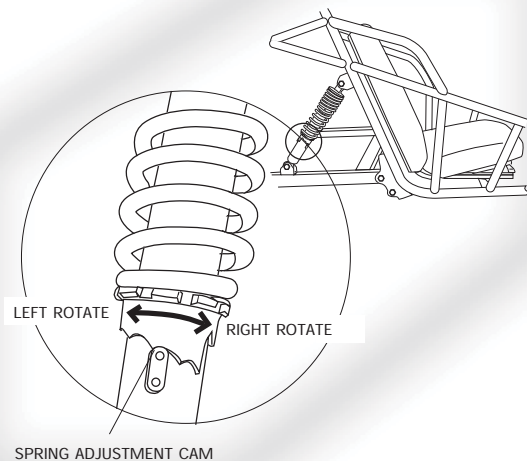


Figure 11

## 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:

- 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 motor dies.
- c. Do not save or store gasoline over winter. Using old gasoline, which has deteriorated from storage, will cause hard starting and affect engine performance.



## WARNING

Do not drain fuel while engine is hot. Be sure to move 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.

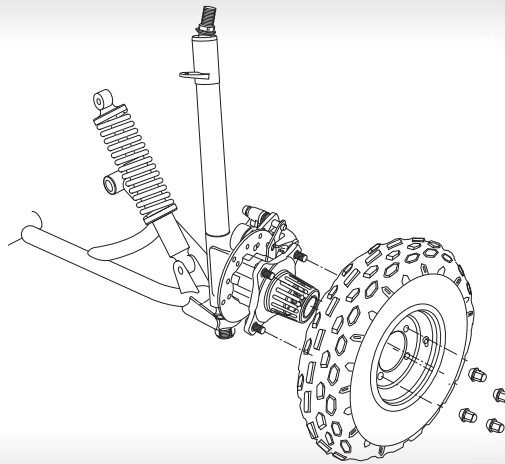


Figure 12

### 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 wheel and hub assembly.

It is only necessary to remove the 4 lug nuts to remove the wheel by itself. (See Fig.13)

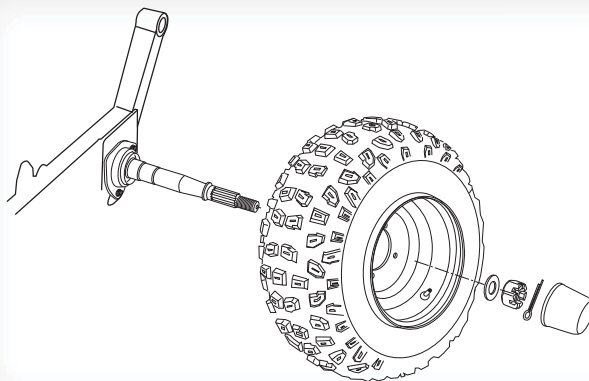


Figure 13

## 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.

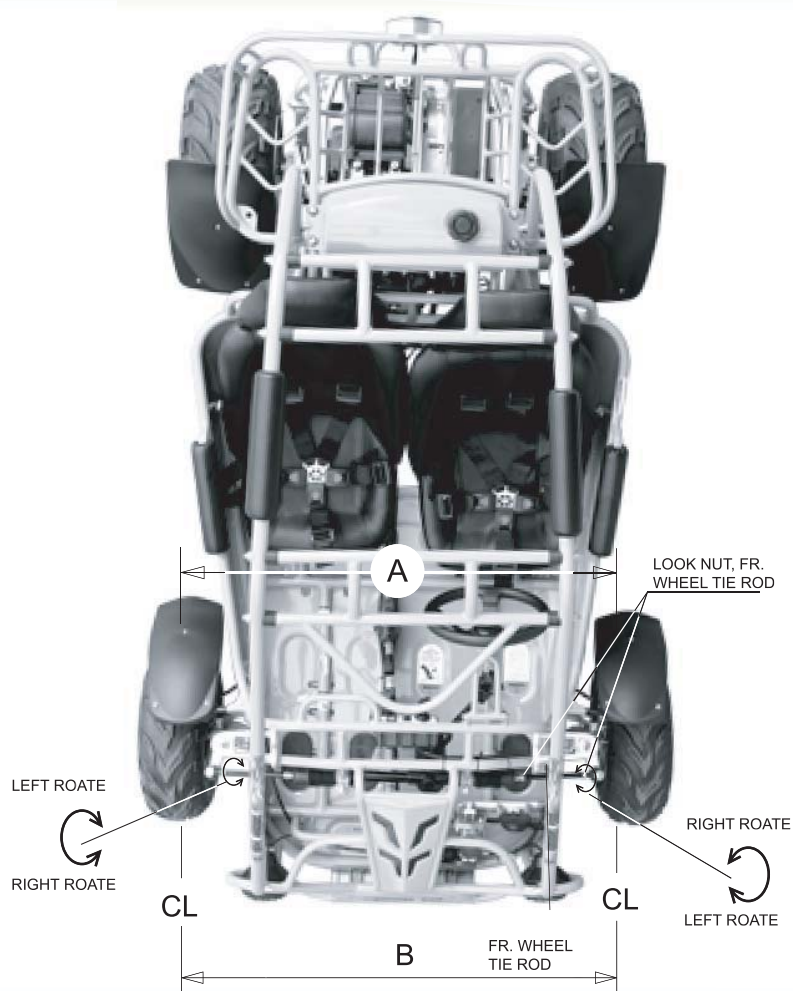


Figure 14



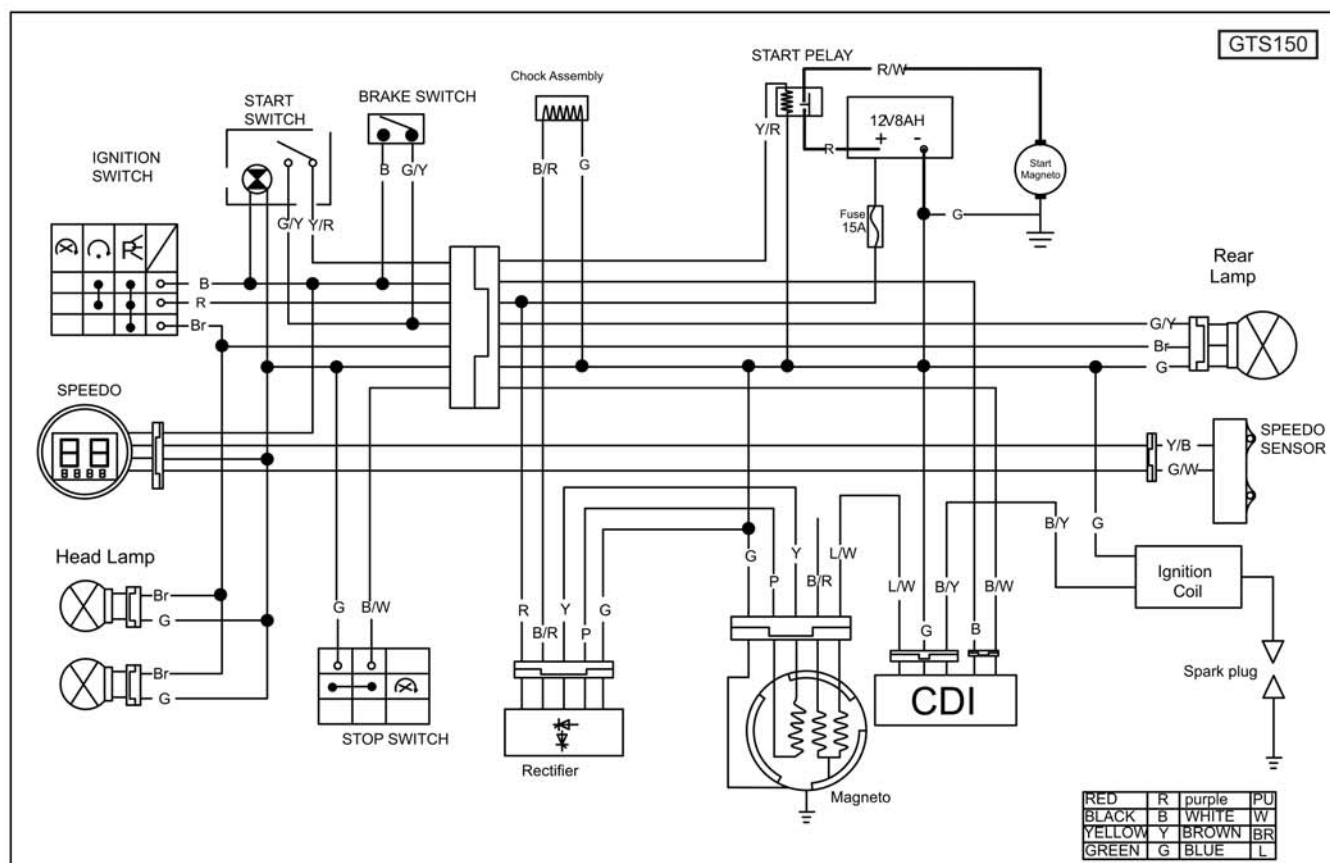
# PERIODICAL CHECK AND SERVICES

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

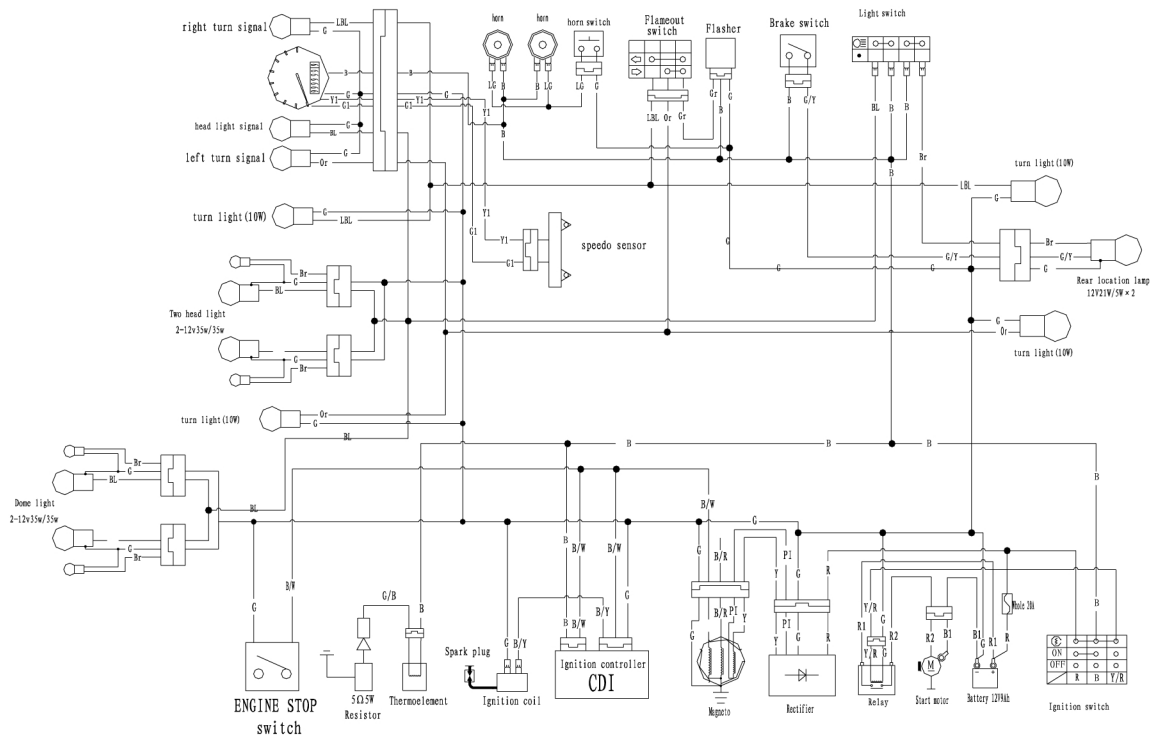
| Items \ odometer          | Initial service<br>( 300km ) | 1000km | 3000km  | 10000km |
|---------------------------|------------------------------|--------|---------|---------|
| Tire pressure/wear        | I                            | I      |         |         |
| Brake performance         | I                            | I      |         |         |
| Tightness of screws       | I                            | I      |         |         |
| Air cleaner               |                              |        | C       | I       |
| Carburetor                | I                            | A      |         | C       |
| Spark plug                |                              |        | C, A    |         |
| Drive chain               | I                            | I      | C, A, L |         |
| Brake oil                 |                              |        | I       |         |
| Replace gearbox oil       |                              | I      | R       |         |
| Chassis                   |                              | C, I   | L       |         |
| Fuel switch/fuel tank     |                              | I      |         | C       |
| Battery                   |                              |        | I       |         |
| Valve clearance of engine |                              |        | A       |         |

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

## WIRING DIAGRAM



# 150RX Circuit diagram



|     |       |       |        |       |       |      |      |        |            |             |      |              |            |            |           |             |              |             |                 |              |             |           |             |             |             |            |        |          |
|-----|-------|-------|--------|-------|-------|------|------|--------|------------|-------------|------|--------------|------------|------------|-----------|-------------|--------------|-------------|-----------------|--------------|-------------|-----------|-------------|-------------|-------------|------------|--------|----------|
| 1   | 2     | 3     | 4      | 5     | 6     | 7    | 8    | 9      | 10         | 11          | 12   | 13           | 14         | 15         | 16        | 17          | 18           | 19          | 20              | 21           | 22          | 23        | 24          | 25          | 26          | 27         | 28     | 29       |
| RED | BLACK | GREEN | YELLOW | WHITE | BROWN | BLUE | GRAY | ORANGE | LIGHT BLUE | LIGHT GREEN | PINK | YELLOW/WHITE | BLUE/WHITE | YELLOW/RED | BLACK/RED | BLUE/YELLOW | BLACK/YELLOW | GREEN/BLACK | LIGHT GREEN/RED | GREEN/YELLOW | BLACK/WHITE | RED/WHITE | BLACK/BROWN | BROWN/WHITE | GREEN/WHITE | DARK GREEN | PURPLE | RED/BLUE |
| R   | B     | G     | Y      | W     | Br    | BL   | Gr   | Or     | LRL        | LG          | PI   | Y/W          | BL/W       | Y/R        | B/R       | BL/Y        | B/Y          | G/B         | LG/R            | G/Y          | B/W         | B/W       | B/Gr        | B/L/W       | G/W         | Dg         | P      | B/BL     |



# TrailMaster Go-Kart

## Parts Manual

---



READ THIS MANUAL CAREFULLY,  
IT CONTAINS IMPORTANT SAFETY INFORMATION.

*150XRX*



### **FOR OFF-ROAD USE ONLY**

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

USA only:

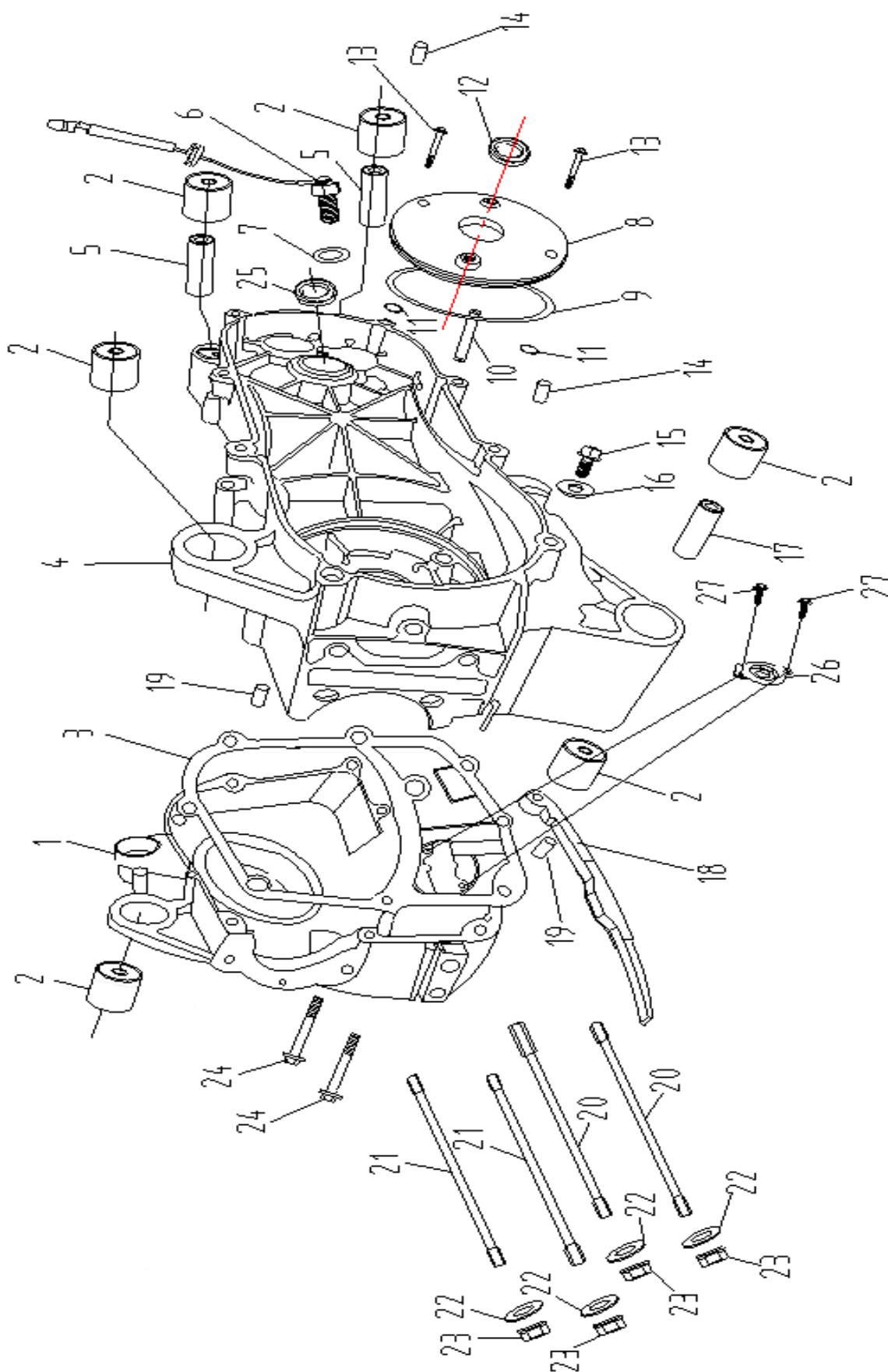
It does not conform to Federal Motor Vehicle Safety Standards, and in regards to operation on public streets, roads, or highways is illegal.

## PARTS MANUAL

Fig

|                                      |         |
|--------------------------------------|---------|
| 1. CRANKCASE ASSY.-----              | Fig. 1  |
| 2. DRIVING GEAR COMP-----            | Fig. 2  |
| 3. SIDE COVER COMP -----             | Fig. 3  |
| 4. RIGHT COVER COMP -----            | Fig. 4  |
| 5. FAN / WIND GUIDE COVER-----       | Fig. 5  |
| 6. ELECTRIC START SYSTEM -----       | Fig. 6  |
| 7. CYLINDER ASSY.-----               | Fig. 7  |
| 8. CYLINDER HEAD ASSY.-----          | Fig. 8  |
| 9. OIL PUMP ASSY.-----               | Fig. 9  |
| 10. DRIVING WHEEL COMP-----          | Fig. 10 |
| 11. MAGEMOTOR -----                  | Fig. 11 |
| 12. DRIVEN WHEEL COMP-----           | Fig. 12 |
| 13. CRANK SHAFT / PISTON COMP -----  | Fig. 13 |
| 14. TIMING SYSTEM -----              | Fig. 14 |
| 15. FRAME GROUP -----                | Fig. 15 |
| 16. STEERING SHAFT ASSY.-----        | Fig. 16 |
| 17. SUSPENSION ARM ASSY.-----        | Fig. 17 |
| 18. REAR CARGO RACK/SEAT/BELT-----   | Fig. 18 |
| 19. REAR SWING ARM ASSY. UPPER ----- | Fig. 19 |
| 20. ENGINE/MUFFLER/AIR CLEANER ----- | Fig. 20 |
| 21. REAR SWING ARM -----             | Fig. 21 |
| 22. REAR HOUSING -----               | Fig. 22 |
| 23. WIRE HARNESS/ELECTRICAL -----    | Fig. 23 |
| 24. REVERSE ASSY.-----               | Fig. 24 |
| 25. WARNING STICKERS -----           | Fig. 25 |

**FIG1. ENGINE CASE . COMP**



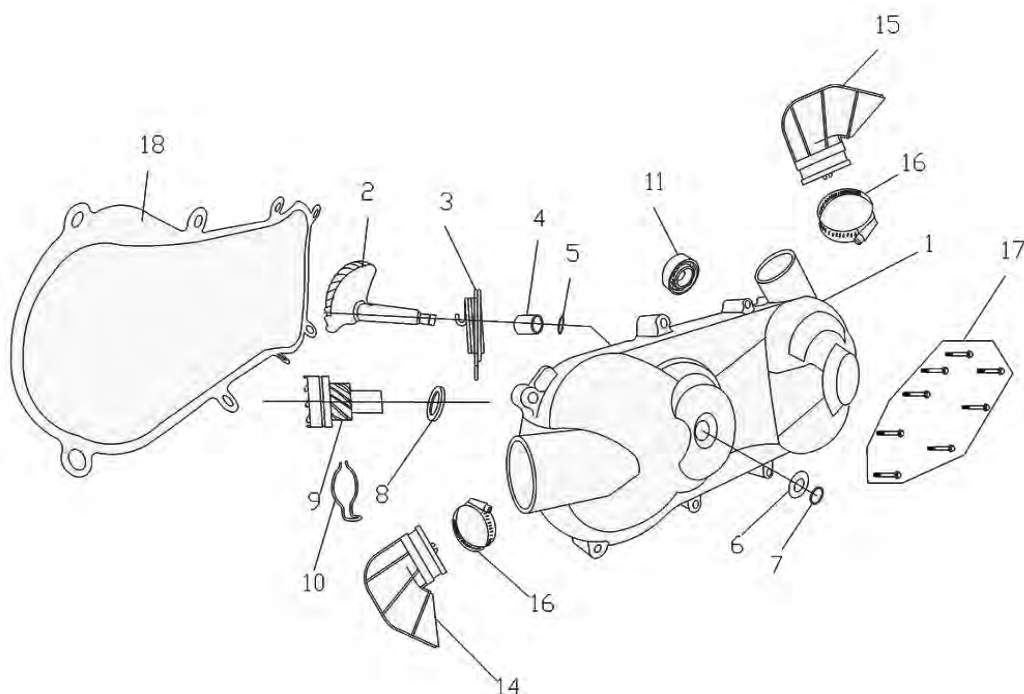
**ENGINE CASE COMP.**

| REF NO. | PART NO.        | DESCRIPTION                 | QTY |
|---------|-----------------|-----------------------------|-----|
| 1-1     | 157.03.002      | RIGHT CASE BODY             | 1   |
| 1-2     | 157F.12.114     | DAMPING BUSHING             | 4   |
| 1-3     | 152.12.301      | CRANKCASE GASKET            | 1   |
| 1-4     | 157F.03.001     | LEFT CRANKCASE BODY         | 1   |
| 1-5     | 157F.11.522     | COLLAR                      | 2   |
| 1-6     | 157F.10.470     | NEUTRAL POSITION LAMP ASSY. | 1   |
| 1-7     | 157F.11.405     | WASHER 10.2X18X1.3          | 1   |
| 1-8     | 157F.03.006     | SMALL LEFT COVER            | 1   |
| 1-9     | 157F.12.107     | O-RING 108X2                | 1   |
| 1-10    | 157F.02.603     | PIN                         | 1   |
| 1-11    | 157F.12.115     | O-RING 6X1.8                | 2   |
| 1-12    | 152.12.101      | OIL SEAL 19.8X30X5          | 1   |
| 1-13    | GB/T16674 M6X18 | BOLT M6X18                  | 12  |
| 1-14    | 157F.11.517     | DOWEL PIN 10X14             | 2   |
| 1-15    | 152.11.205      | DRAIN PLUG M12X1.5          | 1   |
| 1-16    | GB97.1 12       | WASHER 12                   | 1   |
| 1-17    | 157F.11.521     | COLLAR                      | 1   |
| 1-18    | 152.02.601      | CHAIN PULL ROD              | 1   |
| 1-19    | 152.11.515      | DOWEL PIN 8X14              | 2   |
| 1-20    | 152.11.204      | DOUBLE-END BOLT M8X195.5    | 2   |
| 1-21    | 152.11.203      | DOUBLE-END BOLT M8X187.5    | 2   |
| 1-22    | GB97.2 8        | WASHER 8                    | 4   |
| 1-23    | GB6177 M8       | NUT M8                      | 4   |
| 1-24    | GB/T16674 M6X50 | BOLT M6X50                  | 2   |
| 1-25    | 152.12.102      | OIL SEAL 20X32X6            | 1   |
| 1-26    | 152.09.001      | ENGINE OIL CLAPBOARD        | 1   |
| 1-27    | GB/T16674 M6X12 | BOLT M6X12                  | 2   |



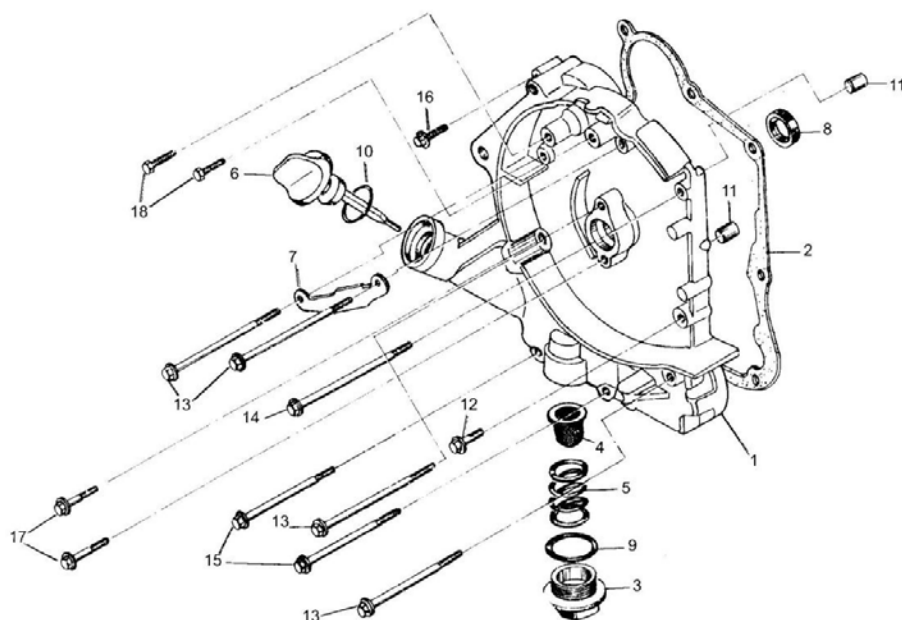
| DRIVING GEAR COMP. |                  |                                     |     |
|--------------------|------------------|-------------------------------------|-----|
| REF NO.            | PART NO.         | DESCRIPTION                         | QTY |
| 2-1                | 157F.03.005      | GEAR BOX COVER                      | 1   |
| 2-2                | 157F.10.401      | DRIVE SHAFT                         | 1   |
| 2-3                | 157F.10.411      | REVERSE SHAFT ASSY.                 | 1   |
| 2-4                | 157F.10.420-SSA  | SHIFTING SHAFT ASSY.                | 1   |
| 2-5                | 157F.10.402      | OUTPUT SHAFT                        | 1   |
| 2-6                | 157F.10.420-SDA  | SHIFTING DRUM ASSY.                 | 1   |
| 2-7                | 157F.10.403      | SHIFTING FORK                       | 1   |
| 2-8                | 157F.10.404      | DECLUTCH SHIFT SHAFT                | 1   |
| 2-9                | 157F.10.440      | CLUTCH SHIFT SHAFT ASSY.            | 1   |
| 2-10               | 157F.12.305      | GEAR BOX COVER GASKET               | 1   |
| 2-11               | 157F.12.113      | GEAR BOX AIR PIPE                   | 1   |
| 2-12               | 157F.11.523      | GEAR BOX AIR NOZZLE                 | 1   |
| 2-13               | GB/T308 Φ9.5     | STEEL BALL Φ9.5                     | 1   |
| 2-14               | 157F.10.410      | SHIFTING DRUM POSITIONING<br>SPRING | 1   |
| 2-15               | 157F.11.407      | WASHER 14.2X22X1.3                  | 1   |
| 2-16               | 157F.10.409      | SHIFTING DRUM POSITIONING<br>BOLT   | 1   |
| 2-17               | 157F.11.524      | CASE DRAIN NOZZLE                   | 1   |
| 2-18               | 152.11.205       | DRAIN PLUG M12X1.5                  | 2   |
| 2-19               | GB97.1 12        | WASHER 12                           | 2   |
| 2-20               | GB/T16674 M6X12  | BOLT M6X12                          | 1   |
| 2-21               | 157F.11.408      | WASHER 6                            | 1   |
| 2-22               | 157F.11.517      | DOWEL PIN 10X14                     | 2   |
| 2-23               | 157F.10.427      | ADJUST WASHER 15                    | 1   |
| 2-24               | GB/T276 6202     | BEARING 6202                        | 1   |
| 2-25               | GB/T276 6203     | BEARING 6203                        | 1   |
| 2-26               | GB/T276 6204     | BEARING 6204                        | 2   |
| 2-27               | GB/T894.1 Φ20    | SNAP RING Φ20                       | 1   |
| 2-28               | GB/T276 6302     | BEARING 6302                        | 1   |
| 2-29               | GB/T5801 RNA4905 | NEEDLE ROLLER BEARING<br>RNA4905    | 1   |
| 2-30               | 157F.12.114      | DAMPING BUSHING                     | 2   |
| 2-31               | 157F.12.103      | OIL SEAL 30X40X6                    | 1   |
| 2-32               | GB/T276 6205-2RZ | BEARING 6205-2RZ                    | 1   |
| 2-33               | 157F.10.437      | ADJUST WASHER 25                    | 1   |
| 2-34               | GB/T894.1 Φ25    | SNAP RING Φ25                       | 1   |
| 2-35               | GB/T893.1 Φ52    | SNAP RING Φ52                       | 1   |
| 2-36               | 157F.10.480      | DRIVE SPROCKET                      | 1   |
| 2-37               | 157F.10.481      | SPROCKET LOCKING PLATE              | 1   |
| 2-38               | GB/T16674 M6X12  | BOLT M6X12                          | 2   |
| 2-39               | 157F.11.503      | CABLE CLAMP                         | 1   |
| 2-40               | GB5789 M6X40     | BOLT M6X40                          | 10  |

# FIG . 3 SIDE COVER COMP.



| SIDE COVER COMP. |                  |                             |     |
|------------------|------------------|-----------------------------|-----|
| REF NO.          | PART NO.         | DESCRIPTION                 | QTY |
| 3-1              | 157F.03.003      | LEFT CRANKCASE COVER        | 1   |
| 3-2              | 157F.06.300      | STARTING SHAFT ASSY.        | 1   |
| 3-3              | 139.06.101       | STARTING RETURN SPRING      | 1   |
| 3-4              | 157F.06.002      | STARTING SHAFT BUSHING      | 1   |
| 3-5              | 157F.12.117      | O-RING 13.8X2.3             | 1   |
| 3-6              | 139.11.403       | WASHER                      | 1   |
| 3-7              | GB/T894.1 Φ14    | SNAP RING Φ14               | 1   |
| 3-8              | 139.11.404       | WASHER Φ10                  | 1   |
| 3-9              | 157F.06.400      | STARTING DRIVEN GEAR ASSY.  | 1   |
| 3-10             | 139.06.103       | FRICTION SPRING             | 1   |
| 3-11             | GB/T276 6200-2RZ | BEARING 6200-2RZ            | 1   |
| 3-14             | 157F.12.121      | ASPIRATION CHANNEL A        | 1   |
| 3-15             | 157F.12.122      | ASPIRATION CHANNEL B        | 1   |
| 3-16             | 157F.11.601      | ASPIRATION CHANNEL CLIP     | 2   |
| 3-17             | GB/T16674 M6X40  | BOLT M6X40                  | 8   |
| 3-18             | 157F.12.302      | LEFT CRANKCASE COVER GASKET | 1   |

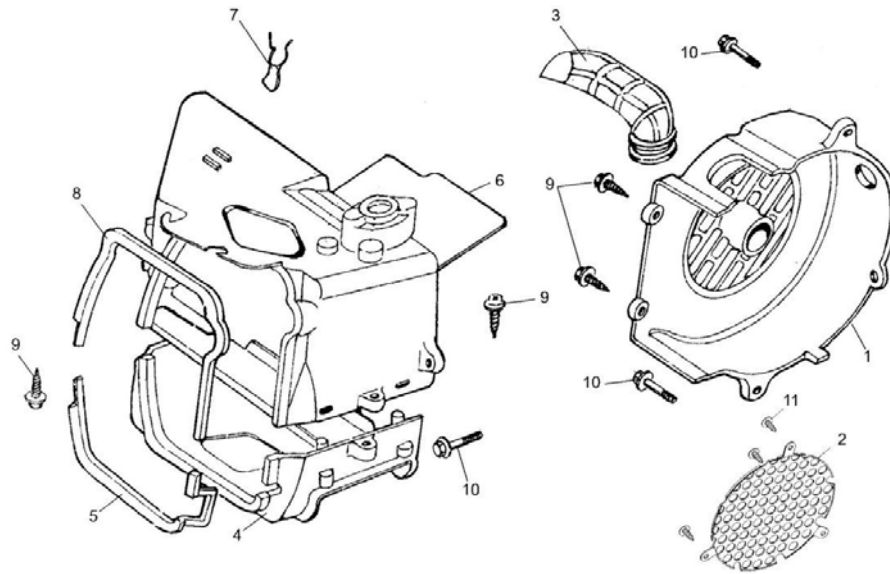
# FIG . 4 RIGHT COVER . COMP



| RIGHT COVER COMP. |                  |                         |     |
|-------------------|------------------|-------------------------|-----|
| REF NO.           | PART NO.         | DESCRIPTION             | QTY |
| 4-1               | 157F.03.004      | RIGHT CASE COVER        | 1   |
| 4-2               | 152.12.303       | RIGHT CASE COVER GASKET | 1   |
| 4-3               | 152.09.002       | OIL SCREEN SCREW PLUG   | 1   |
| 4-4               | 152.09.003-OS    | OIL SCREEN              | 1   |
| 4-5               | 152.09.004       | OIL SCREEN SPRING       | 1   |
| 4-6               | 152.12.201       | OIL GAGE                | 1   |
| 4-7               | 152.11.508       | MAGNETO WIRE CLIP       | 1   |
| 4-8               | 152.12.101       | OIL SEAL 19.8X30X5      | 1   |
| 4-9               | 152.12.110       | O-RING 30.8             | 1   |
| 4-10              | 152.12.108       | O-RING 18X3             | 1   |
| 4-11              | 152.11.515       | DOWEL PIN 8X14          | 2   |
| 4-12              | GB/T16674 M6X28  | BOLT M6X28              | 1   |
| 4-13              | GB/T16674 M6X95  | BOLT M6X95              | 4   |
| 4-14              | GB/T16674 M6X100 | BOLT M6X100             | 1   |
| 4-15              | GB/T16674 M6X110 | BOLT M6X110             | 2   |
| 4-16              | GB/T16674 M6X35  | BOLT M6X35              | 1   |
| 4-17              | GB/T16674 M6X25  | BOLT M6X25              | 2   |
| 4-18              | GB5783 M5X12     | BOLT M5X12              | 2   |

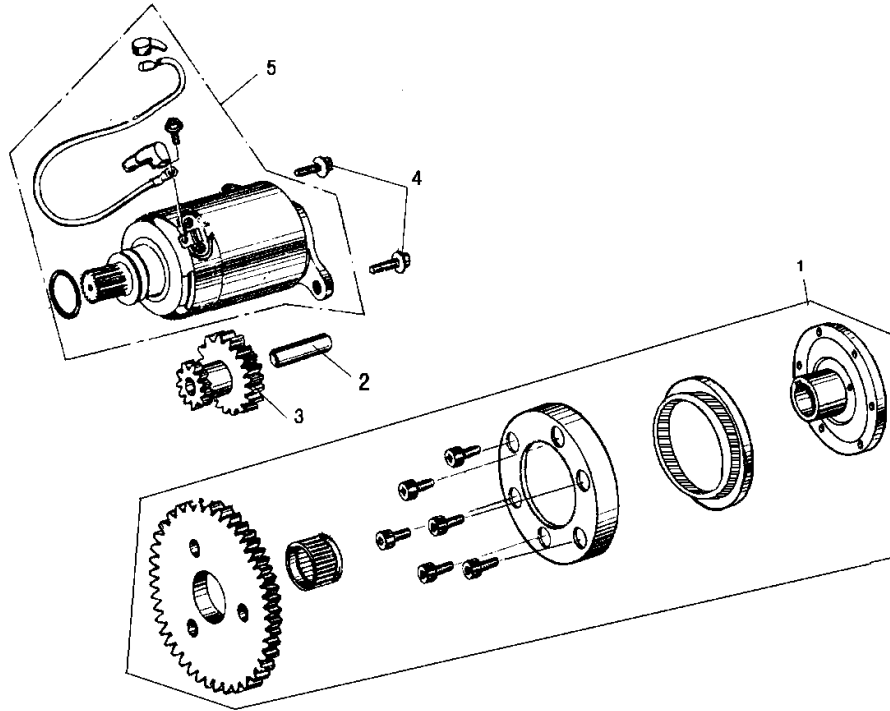


# FIG. 5 FAN/WIND GUIDE COVER



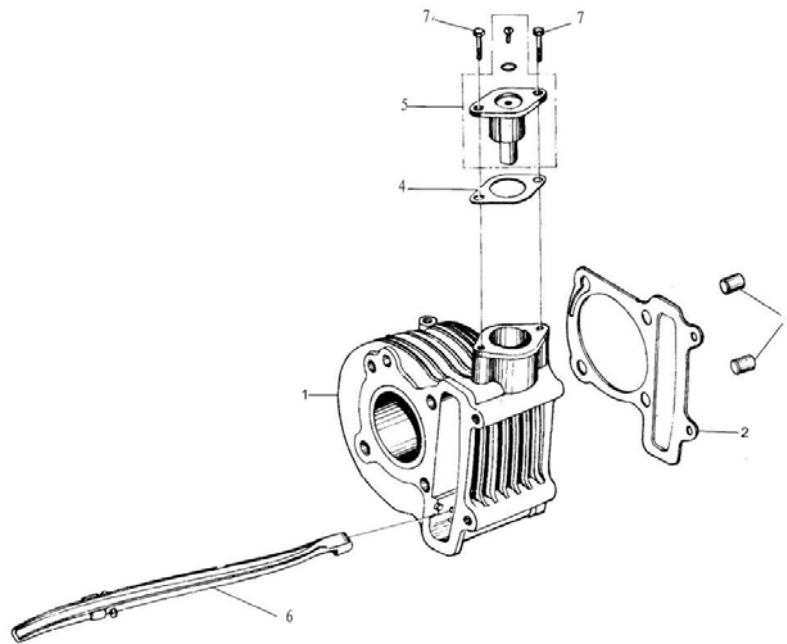
| FAN / WIND GUIDE COVER |                         |                                   |     |
|------------------------|-------------------------|-----------------------------------|-----|
| REF NO.                | PART NO.                | DESCRIPTION                       | QTY |
| 5-1                    | 152.05.002              | FAN VOLUTE ASSY.                  | 1   |
| 5-2                    | 157A.12.305             | FAN COVER CLAPBOARD               | 1   |
| 5-3                    | 152.12.118              | COOLING PIPE                      | 1   |
| 5-4                    | 152.05.004              | WIND GUIDE COVER ASSY. LOWER      | 1   |
| 5-5                    | 152.12.117              | WIND GUIDE COVER ASSY. LOWER SEAL | 1   |
| 5-6                    | 152.05.003              | WIND GUIDE COVER ASSY. UPPER      | 1   |
| 5-7                    | 152.12.203              | HIGH-VOLTAGE CABLE CLIP           | 1   |
| 5-8                    | 152.12.116              | WIND GUIDE COVER ASSY. UPPER SEAL | 1   |
| 5-9                    | GB/T16824.2<br>ST4.8X16 | TAPPING SCREW ST4.8X16            | 4   |
| 5-10                   | GB/T16674<br>M6X25      | BOLT M6X25                        | 3   |
| 5-11                   | GB845<br>ST3.8X11       | TAPPING SCREW ST3.8X11            | 3   |

# FIG . 6 ELECTRIC START SYSTEM



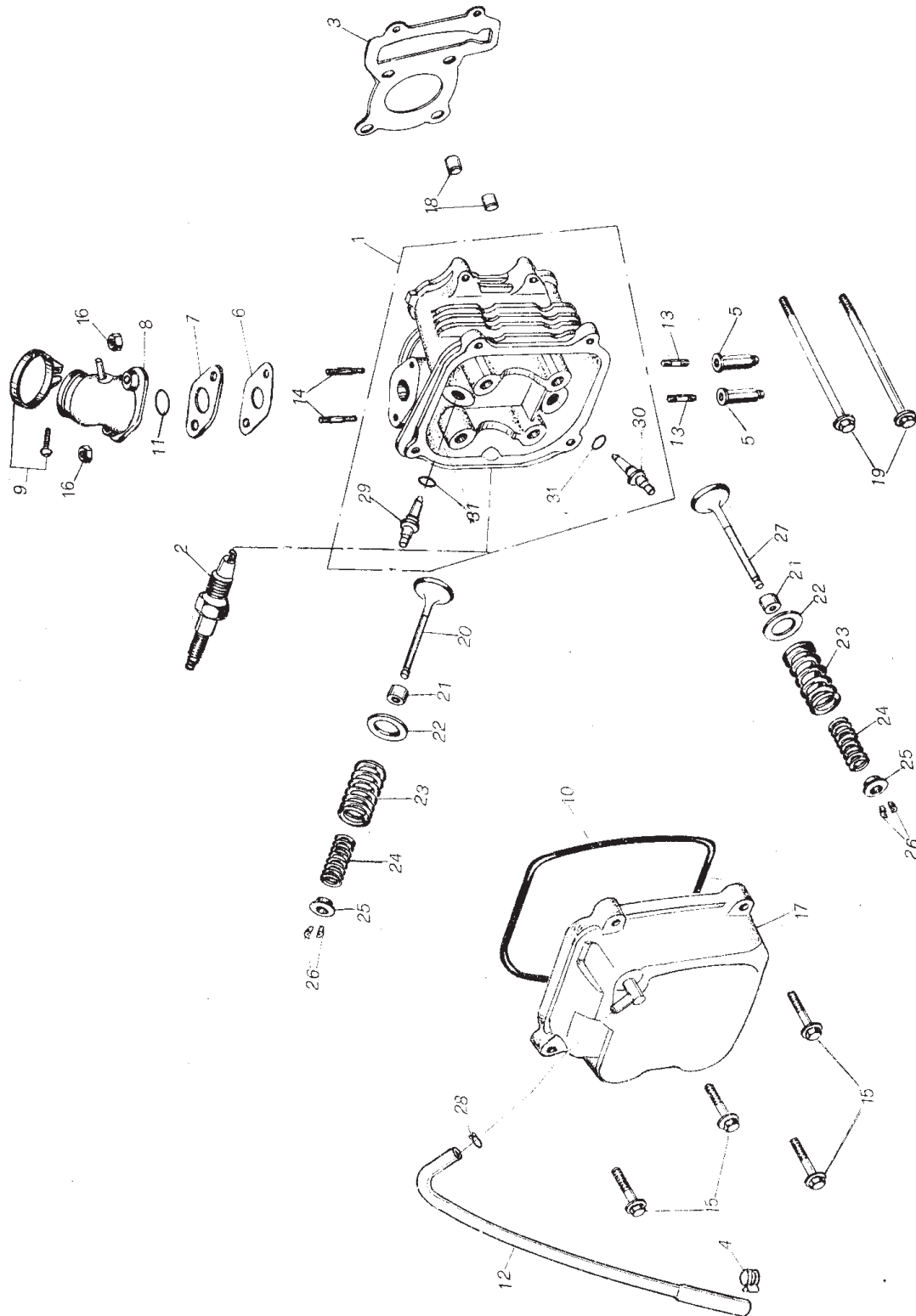
| ELECTRIC START SYSTEM |                 |                              |     |
|-----------------------|-----------------|------------------------------|-----|
| REF NO.               | PART NO.        | DESCRIPTION                  | QTY |
| 6-1                   | 152.06.100      | OVERRUN CLUTCH               | 1   |
| 6-2                   | 152.06.003      | ELECTRIC STARTING GEAR SHAFT | 1   |
| 6-3                   | 152.06.002      | STARTING GEAR                | 1   |
| 6-4                   | GB/T16674 M6X16 | BOLT M6X16                   | 2   |
| 6-5                   | 152.07.500      | STARTING MOTOR               | 1   |

# FIG. 7 CYLINDER COMP.



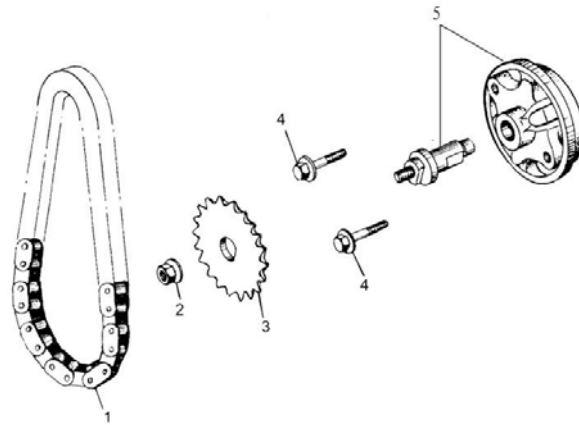
| CYLINDER COMP. |                 |                       |     |
|----------------|-----------------|-----------------------|-----|
| REF NO.        | PART NO.        | DESCRIPTION           | QTY |
| 7-1            | 157.04.100      | CYLINDER              | 1   |
| 7-2            | 152.12.304      | CYLINDER GASKET       | 1   |
| 7-3            | 152.11.516      | DOWEL PIN 10X16       | 2   |
| 7-4            | 152.09.003-CAS  | CHAIN ADJUSTER SPACER | 1   |
| 7-5            | 152.02.400      | CHAIN ADJUSTER ASSY.  | 1   |
| 7-6            | 152.02.602      | CHAIN GUILDER         | 1   |
| 7-7            | GB/T16674 M6X20 | BOLT M6X20            | 1   |

**FIG 8. CYLINDER HEAD COMP.**



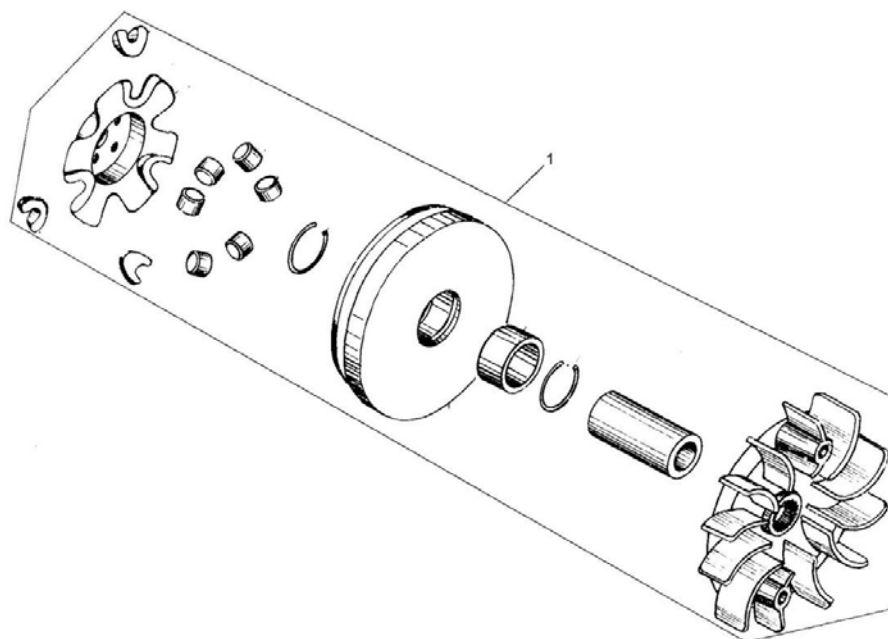
| CYLINDER HEAD COMP. |                  |                                   |     |
|---------------------|------------------|-----------------------------------|-----|
| REF NO.             | PART NO.         | DESCRIPTION                       | QTY |
| 8 -1                | 157.04.200       | CYLINDER HEAD                     | 1   |
| 8 -2                | 152.07.200       | SPARK PLUG (C7HSA NGK)            | 1   |
| 8 -3                | 157.04.401       | CYLINDER HEAD GASKET              | 1   |
| 8 -4                | 152.12.307       | INSULATOR SPACER                  | 1   |
| 8 -5                | 152.08.201       | CARBURETOR INSULATOR              | 1   |
| 8 -6                | 152.08.200       | INTAKE TUBE ASSY.                 | 1   |
| 8 -7                | 152.08.210       | INTAKE TUBE CLAMP COMP.           | 1   |
| 8 -8                | 152.12.111       | CYLINDER HEAD COVER RUBBER GASKET | 1   |
| 8 -9                | 152.12.109       | O-RING 27X2                       | 1   |
| 8 -10               | 152.12.112       | CYLINDER HEAD BREATHER PIPE       | 1   |
| 8 -11               | 152.11.201       | DOUBLE-END BOLT M6X32             | 2   |
| 8 -12               | 152.11.202       | DOUBLE-END BOLT M6X63             | 2   |
| 8 -13               | GB/T16674 M6X25  | BOLT M6X25                        | 4   |
| 8 -14               | GB6177 M6        | NUT M6                            | 2   |
| 8 -15               | 152.04.301       | CYLINDER HEAD COVER               | 1   |
| 8 -16               | 152.11.516       | DOWEL PIN 10X16                   | 2   |
| 8 -17               | GB/T16674 M6X100 | BOLT M6X100                       | 2   |
| 8 -18               | 157.02.301       | INTAKE VALVE                      | 1   |
| 8 -19               | 152.12.104       | VALVE OIL SEAL                    | 2   |
| 8 -20               | 152.02.306       | VALVE SPRING SEAT                 | 2   |
| 8 -21               | 152.02.303-304   | VALVE SPRING                      | 2   |
| 8 -22               | 152.02.305       | VALVE SPRING RETAINER             | 2   |
| 8 -23               | 152.02.307       | VALVE LOCKING CLAMP               | 4   |
| 8 -24               | 157.02.302       | EXHAUST VALVE                     | 1   |

## FIG . 9 ENGINE OIL PUMP



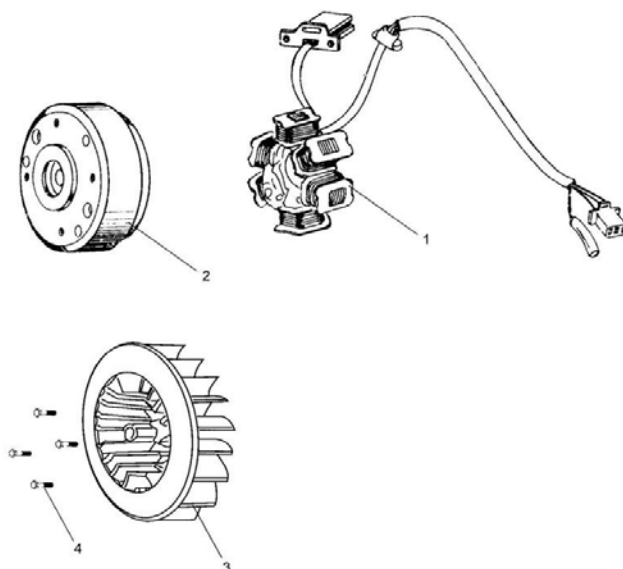
| ENGINE OIL PUMP |                 |                   |     |
|-----------------|-----------------|-------------------|-----|
| REF NO.         | PART NO.        | DESCRIPTION       | QTY |
| 9 -1            | 152.09.200      | OIL PUMP CHAIN    | 1   |
| 9 -2            | GB6177 M6       | NUT M6            | 1   |
| 9 -3            | 152.09.005      | OIL PUMP SPROCKET | 1   |
| 9 -4            | GB/T16674 M6X25 | BOLT M6X25        | 2   |
| 9 -5            | 152.09.100      | OIL PUMP ASSY.    | 1   |

# FIG.10 DRIVING WHEEL COMP.



| DRIVING WHEEL COMP. |             |                     |     |
|---------------------|-------------|---------------------|-----|
| REF NO.             | PART NO.    | DESCRIPTION         | QTY |
| 10-1                | 157F.10.100 | DRIVING WHEEL COMP. | 1   |

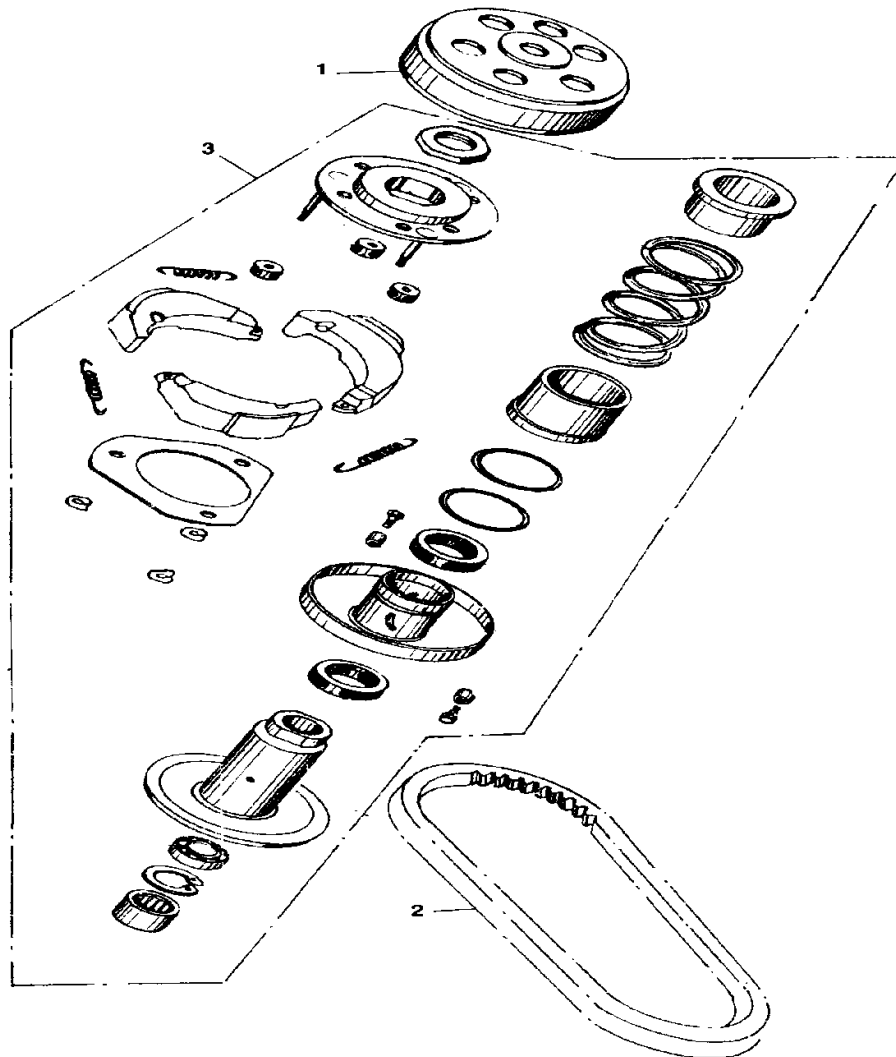
## FIG . 11 MAGNETOR



| MAGNETOR |                 |                            |     |
|----------|-----------------|----------------------------|-----|
| REF NO.  | PART NO.        | DESCRIPTION                | QTY |
| 11-1     | 152.07.102      | MAGNETO STATOR ASSY.       | 1   |
| 11-2     | 152.07.101      | MAGNETO FLYING WHEEL ASSY. | 1   |
| 11-3     | 152.05.001      | FAN IMPELLER               | 1   |
| 11-4     | GB/T16674 M6X18 | BOLT M6X18                 | 4   |

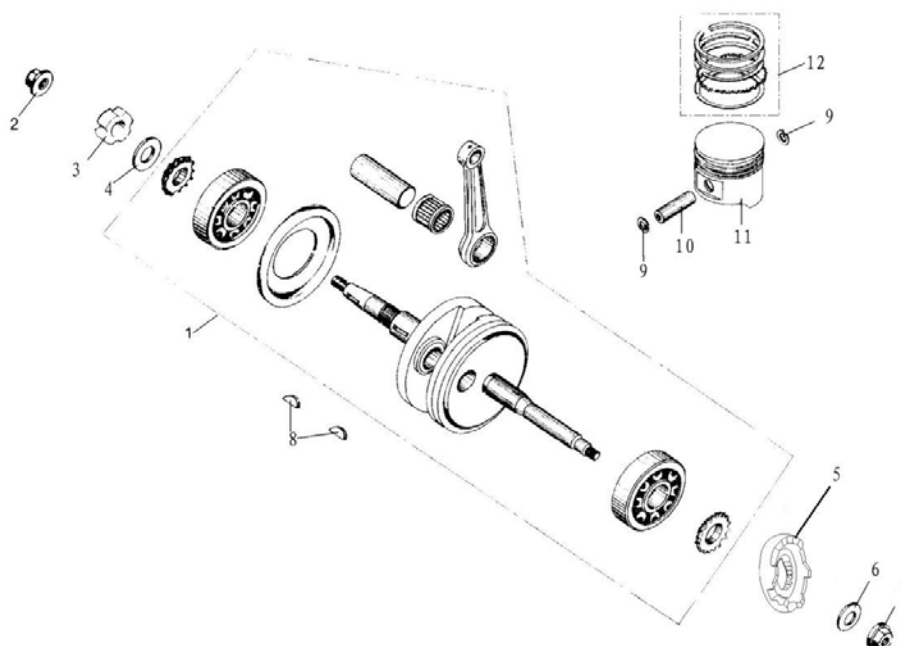


# FIG. 12 DRIVEN WHEEL COMP



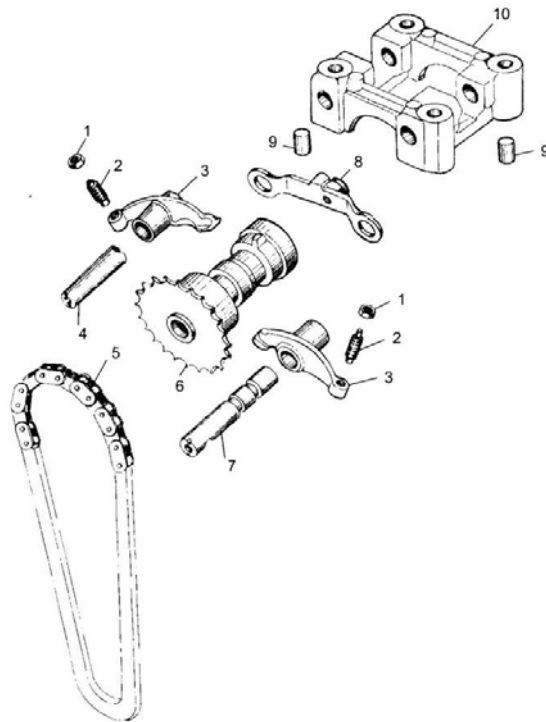
| DRIVEN WHEEL COMP. |            |                    |     |
|--------------------|------------|--------------------|-----|
| REF NO.            | PART NO.   | DESCRIPTION        | QTY |
| 12-1               | 152.10.210 | CLUTCH COAT ASSY.  | 1   |
| 12-2               | 152.10.300 | BELT               | 1   |
| 12-3               | 152.10.200 | DRIVEN WHEEL COMP. | 1   |

# FIG. 13 CRANK SHAFT / PISTON COMP.



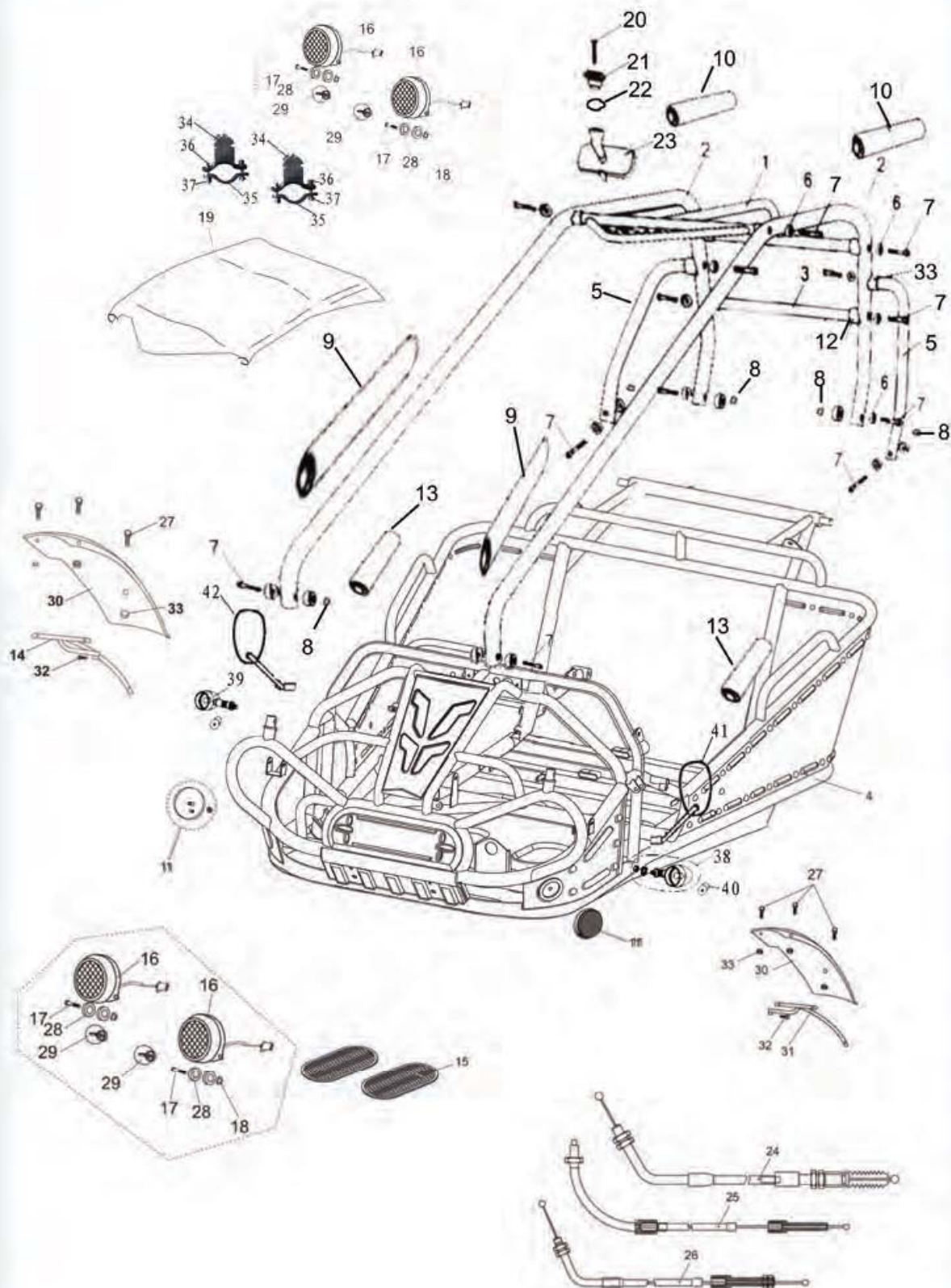
| CRANKSHAFT / PISTON COMP. |                    |                           |     |
|---------------------------|--------------------|---------------------------|-----|
| REF NO.                   | PART NO.           | DESCRIPTION               | QTY |
| 13-1                      | 157F.01.100        | CRANKSHAFT                | 1   |
| 13-2                      | GB6187 M12X1.25    | SELF-LOCKING NUT M12X1.25 | 1   |
| 13-3                      | 152.11.301         | LOCKING NUT M22X1         | 1   |
| 13-4                      | 152.11.402         | WASHER 22X31X2.5          | 1   |
| 13-5                      | 157F.06.001        | RATCHET WHEEL             | 1   |
| 13-6                      | 157F.11.403        | WASHER 15.2X25X2.3        | 1   |
| 13-7                      | GB6177 M12X1.25X11 | NUT M12X1.25X11           | 1   |
| 13-8                      | 152.11.101         | WOODRUFF KEY 4X14         | 2   |
| 13-9                      | 152.01.307         | PISTON PING SNAP RING     | 2   |
| 13-10                     | 157.01.306         | PISTON PING               | 1   |
| 13-11                     | 157.01.301         | PISTON                    | 1   |
| 13-12                     | 157.01.302-305     | PISTON RING               | 1   |

# FIG. 14 TIMING SYSTEM



| TIMING SYSTEM |            |                            |     |
|---------------|------------|----------------------------|-----|
| REF NO.       | PART NO.   | DESCRIPTION                | QTY |
| 14-1          | 152.02.106 | VALVE ADJUSTING NUT        | 2   |
| 14-2          | 152.02.105 | VALVE LASH ADJUSTING SCREW | 2   |
| 14-3          | 152.02.102 | VALVE ROCKET               | 2   |
| 14-4          | 152.02.104 | EXHAUST VALVE ROCKER SHAFT | 1   |
| 14-5          | 152.02.500 | CAMSHAFT DRIVING CHAIN     | 1   |
| 14-6          | 152.02.200 | CAMSHAFT COMP.             | 1   |
| 14-7          | 152.02.103 | INTAKE VALVE ROCKER SHAFT  | 1   |
| 14-8          | 152.02.107 | STOPPING PLATE             | 1   |
| 14-9          | 152.11.516 | DOWEL PIN 10X16            | 2   |
| 14-10         | 152.02.101 | CAMSHAFT FIXING BRACKET    | 1   |

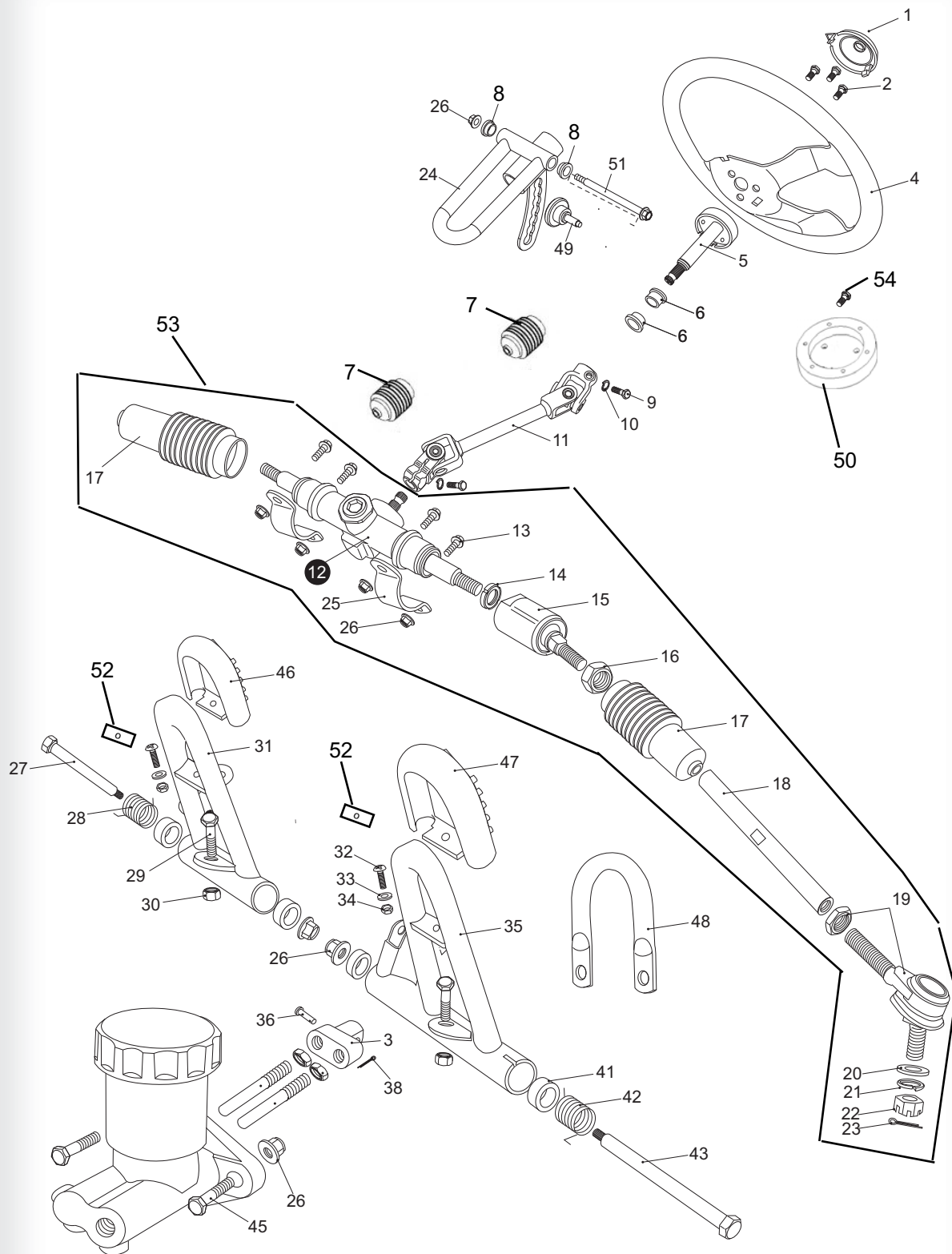
# FRAME GROUP



| FRAME GROUP |                  |                              |          |  |
|-------------|------------------|------------------------------|----------|--|
| REF NO.     | PART NO.         | DESCRIPTION                  | REGD NO. |  |
| 1           | 8.070.063-150XRS | C.B.C. CROSS BAR , FR(B.R.S) | 1        |  |
| 2           | 8.070.065-150XRS | C.B.C. BAR CAGE(B.R.S)       | 1        |  |
| 3           | 8.070.064-150XRS | C.B.C. CROSS BAR , RR(B.R.S) | 2        |  |
| 4           | 8.070.066-150XR  | FRAME COMP.(B.R.S.)          | 1        |  |
| 5           | 8.070.067-150XRS | C.B.C. BAR,SIDE(B.R.S)       | 2        |  |
| 6           | 8.010.047        | R-WASHER                     | 20       |  |
| 7           | 9.908.055N       | SOCKET BOLT M8X1.25X55       | 14       |  |
| 8           | 9.220.008        | LOCKING FLANGE NUT M8        | 6        |  |
| 9           | 6.000.116        | FOAM PADDING-2               | 2        |  |
| 10          | 6.000.300        | FOAM PADDING-AWNING          | 2        |  |
| 11          | 6.000.144        | FRONT REFLECTOR              | 2        |  |
| 12          | 7.010.017        | TUBE SEAT Φ25                | 6        |  |
| 13          | 6.000.083        | FOAM PADDING-1               | 2        |  |
| 14          | 6.000.102        | FRONT FENDER BRACKET,R.      | 1        |  |
| 15          | 7.020.012        | RUBBER FOOT PLATE            | 2        |  |
| 16          | 6.000.009        | HEADLIGHT UNIT               | 4        |  |
| 17          | 9.108.045        | FLANGE BOLT M8 x 1.25 x 45   | 4        |  |
| 18          | 9.220.008        | NUT M8                       | 4        |  |
| 19          | 6.100.061        | AWNING                       | 1        |  |
| 20          | 9.100.530        | BOLT M5X30                   | 1        |  |
| 21          | 8.010.086        | REAT MIRROR MOUNT            | 1        |  |
| 22          | 8.040.005        | REAT MIRROR MOUNT O-RING     | 1        |  |
| 23          | 6.000.084        | REAT MIRROR ASSY             | 1        |  |
| 24          | 6.000.232        | THROTTLE CABLE COMP.         | 1        |  |
| 25          | 60130-300G       | REVERSE CABLE COMP.          | 2        |  |
| 26          | 6.000.050        | PARKING BRAKE CABLE COMP.    | 1        |  |
| 27          | 9.106.016        | FLANGE BOLT M6X16            | 6        |  |
| 28          | 8.010.049        | HEADLIGHT RUBBER MOUNTING    | 8        |  |
| 29          | 9.090.001        | HEADLIGHT BULB 35W/35W/ 12V  | 4        |  |
| 30          | 7.010.034        | FENDER, FR.                  | 2        |  |
| 31          | 6.000.067        | FRONT FENDER BRACKET, L.     | 1        |  |
| 32          | 9.100.612        | BOLT M6 x 12                 | 4        |  |
| 33          | 7.010.016        | TUBE SEAT Φ32                | 2        |  |
| 34          | 58021-150XR      | HEAD LIGHT BRACKET 1         | 1        |  |
| 35          | 58022-150XR      | HEAD LIGHT BRACKET 2         | 1        |  |
| 36          | GB7005025100     | BLOT M5X25                   | 4        |  |
| 37          | 617005000100     | NUT M5                       | 4        |  |
| 38          | 6.000.155-FR     | TRUN LIGHT ASSY .L.FR        | 1        |  |
| 39          | 6.000.156-FR     | TRUN LIGHT ASSY .R.FR        | 1        |  |
| 40          | 9.090.006        | TRUN LIGHT BULB 10W/12V      | 1        |  |
| 41          | 80050250000L     | READ MIRROR ASSY.L           | 1        |  |
| 42          | 80050250000R     | READ MIRROR ASSY.R           | 1        |  |

# FIG.16

## STEERING SHAFT ASSY.

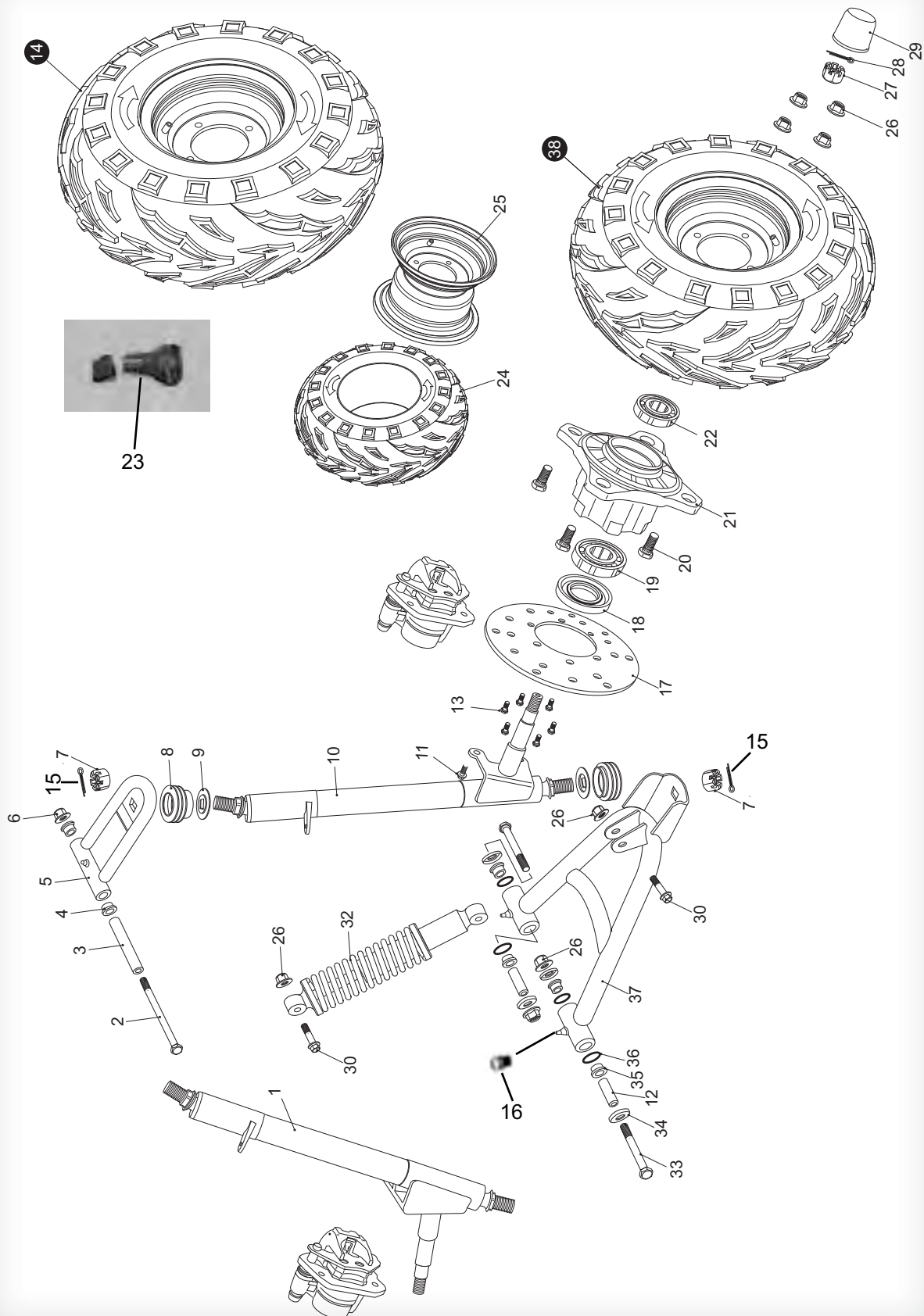


| STEERING SHAFT ASSY. |                  |                                 |          |  |
|----------------------|------------------|---------------------------------|----------|--|
| REF NO.              | PART NO.         | DESCRIPTION                     | REGD NO. |  |
| 1                    | 7.010.041-300GK  | STEERING BOLT COVER             | 1        |  |
| 2                    | GB7005020100     | BOLT M5X20                      | 6        |  |
| 3                    | 8.030.024        | SPINDLE BRACKET                 | 1        |  |
| 4                    | 7.020.038-300GK  | STEERING WHEEL                  | 1        |  |
| 5                    | 6.000.122-150XRX | STEERING SHAFT                  | 1        |  |
| 6                    | 7.010.026        | BUSH. STEERING SHAFT            | 2        |  |
| 7                    | 7.020.066        | DUST COVER . BALL JOINT         | 1        |  |
| 8                    | 7.010.003        | TILT STEERING LOCKING BUSH      | 2        |  |
| 9                    | 9.100.825        | BOLT M8x25                      | 2        |  |
| 10                   | 9.400.008        | LOCKING WASHER $\Phi 8$         | 2        |  |
| 11                   | 6.000.093-250    | STEERING KNUCKLE                | 1        |  |
| 12                   | 4.000.030-250    | STEERING GEAR                   | 1        |  |
| 13                   | 9.108.025        | FLANGE BOLT M8x1.25x25          | 4        |  |
| 14                   | 9.900.016        | ROUND NUT M16x1.5               | 2        |  |
| 15                   | 4.000.008-150XRS | STEERING BALL JOINT             | 2        |  |
| 16                   | 9.200.010        | NUT M10                         | 2        |  |
| 17                   | 7.020.002-250    | BALL JOINT DUST COVER. L.       | 2        |  |
| 18                   | 8.010.157-250    | TIE ROD                         | 2        |  |
| 19                   | 6.000.062-250    | ROD END                         | 2        |  |
| 20                   | 9.300.010        | FLAT WASHER $\Phi 10$           | 2        |  |
| 21                   | 9.400.010        | LOCKING WASHER $\Phi 10$        | 2        |  |
| 22                   | 9.800.010        | CASTLE NUT M10                  | 2        |  |
| 23                   | 9.500.215        | COTTER PIN $\Phi 2 \times 15$   | 2        |  |
| 24                   | 4.000.051-150XRX | TILT STEERING HOUSING           | 1        |  |
| 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        |  |
| 28                   | 8.040.001        | THROTTLE PEDAL RETURN SPRING, L | 1        |  |
| 29                   | 9.108.040        | FLANGE BOLT M8x1.25x40          | 2        |  |
| 30                   | 9.200.008        | NUT M8                          | 2        |  |
| 31                   | 4.000.016        | THROTTLE PEDAL COMP.            | 1        |  |
| 32                   | 9.600.515        | PAN SCREW M5x15                 | 2        |  |
| 33                   | 9.300.005        | FLAT WASHER $\Phi 5$            | 2        |  |
| 34                   | 9.210.005        | NYLON LOCK NUT M5               | 2        |  |
| 35                   | 4.000.015        | BRAKE PEDAL COMP                | 1        |  |
| 36                   | 9.700.628        | PIN 6x28                        | 1        |  |
| 38                   | 9.500.212        | COTTER PIN 2X12                 | 1        |  |
| 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        |  |
| 45                   | 9.108.035        | BOLT-WASHER M8x1.25x35          | 2        |  |
| 46                   | 7.020.036        | THROTTLE PEDAL PAD              |          |  |
| 47                   | 7.020.037        | BRAKER PEDAL PAD                | 1        |  |
| 48                   | 8.070.044        | MASTER CYLINDER BRACKET         | 2        |  |
| 49                   | 8.010.220        | STEERING GEAR , ADJUSTING BOLT  | 1        |  |
| 50                   | 8.010.096        | STEERING WHEEL BRACKET          | 1        |  |
| 51                   | 9.108.105        | BOLT M8X105                     | 1        |  |
| 52                   | 8.020.104        | PEDAL PAD PLATEN                | 2        |  |
| 53                   | 40920-250        | STEERING SHAFT ASSY             | 1        |  |
| 54                   | 578306012100     | NUT M6X12                       | 3        |  |
|                      |                  |                                 |          |  |
|                      |                  |                                 |          |  |
|                      |                  |                                 |          |  |



# FIG.17

## SUSPENSION ARM ASSY.

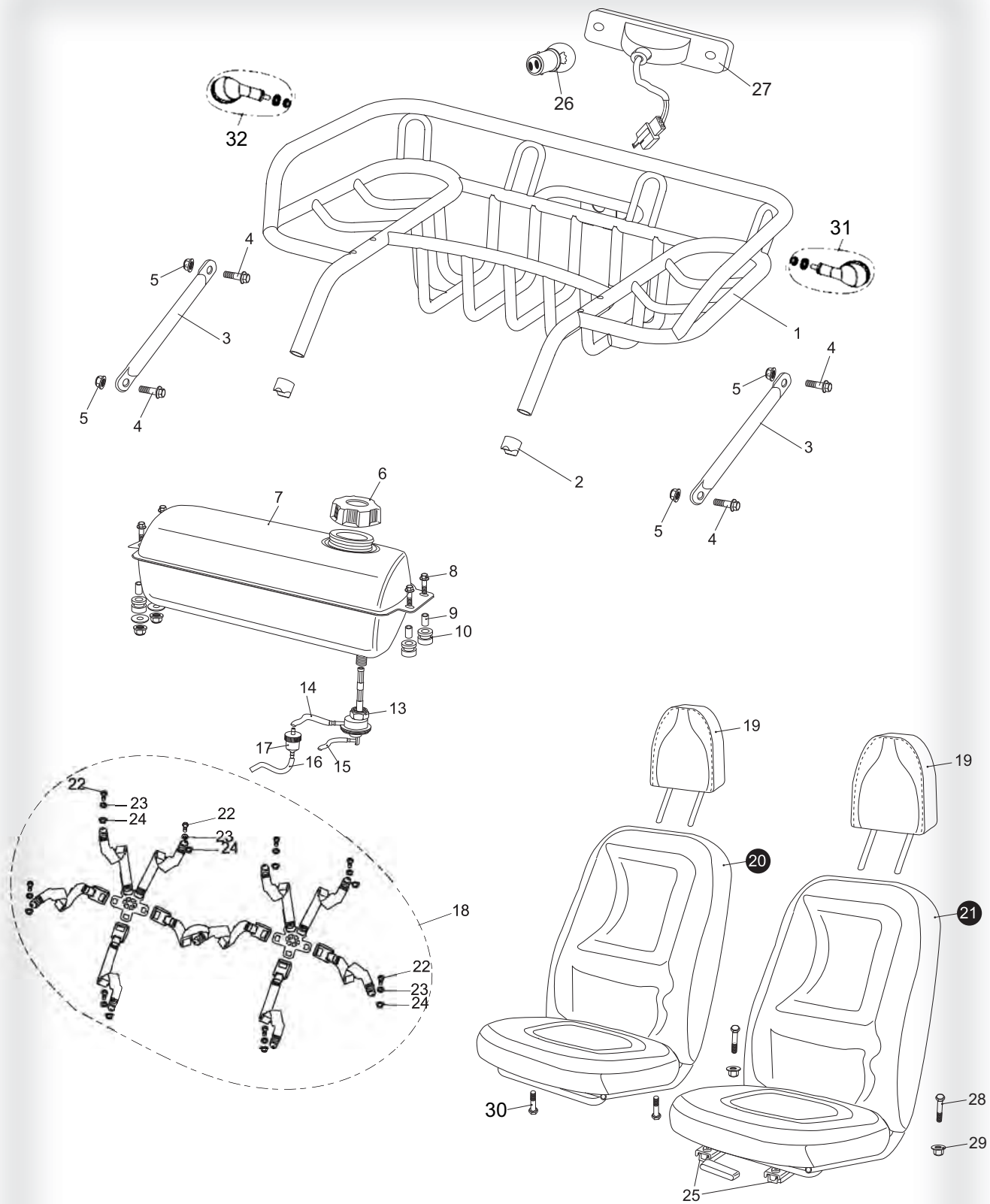




| <b>SUSPENSION ARM ASSY.</b> |                  |                               |                 |  |
|-----------------------------|------------------|-------------------------------|-----------------|--|
| <b>REF NO.</b>              | <b>PART NO.</b>  | <b>DESCRIPTION</b>            | <b>REGD NO.</b> |  |
| 1                           | 2.000.028        | STRUT AND SPINDLE SUPPORT, R  | 1               |  |
| 2                           | 9.108.105        | FLANGE BOLT M8x1.25x105       | 2               |  |
| 3                           | 8.010.015        | UPPER SUSPENSION ARM COLLAR   | 2               |  |
| 4                           | 7.010.003        | UPPER SUSPENSION ARM BUSHING  | 4               |  |
| 5                           | 4.000.004        | UPPER SUSPENSION ARM          | 2               |  |
| 6                           | 9.220.008        | LOCKING FLANGE NUT. M8        | 2               |  |
| 7                           | 9.800.012        | CASTLE NUT M12                | 4               |  |
| 8                           | 7.020.025        | BALL HEAD DUST SEAL           | 4               |  |
| 9                           | 8.020.053        | BALL HEAD SPACER              | 4               |  |
| 10                          | 2.000.027        | STRUT AND SPINDLE SUPPORT, L  | 1               |  |
| 11                          | 9.908.014        | BOLT STRAP M8x14              | 4               |  |
| 12                          | 8.010.014        | LOWER SUSPENSION ARM COLLAR   | 4               |  |
| 13                          | 9.906.012        | BOLT STRAP M6x12              | 12              |  |
| 14                          | 6.000.097-GT     | FRONT WHEEL ASS'Y. R 19x7-8   | 1               |  |
| 15                          | 9.500.225        | COTTER PIN $\Phi$ 2x25        | 2               |  |
| 16                          | 54006400N000     | LUBRICATING NIPPLE            | 6               |  |
| 17                          | 8.010.054        | FRONT DISC 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                          | 8.010.085-150XRS | FRONT WHEEL HUB               | 2               |  |
| 22                          | 9.030.010        | BEARING 6202-Z                | 2               |  |
| 23                          | 7.190.018        | TIRE NIPPLE                   | 2               |  |
| 24                          | 7.020.033        | FRONT TIRE 19x7-8             | 2               |  |
| 25                          | 6.000.096        | FRONT RIM L/R                 | 2               |  |
| 26                          | 9.220.010        | LOCKING FLANGE NUT M10        | 16              |  |
| 27                          | 9.800.014        | CASTLE NUT M14                | 2               |  |
| 28                          | 9.500.330        | COTTER PIN $\Phi$ 3x30        | 2               |  |
| 29                          | 7.020.039        | FR. HUB COVER.                | 2               |  |
| 30                          | 9.110.040        | FLANGE BOLT M10x1.25x40       | 4               |  |
| 32                          | 6.000.325        | CUSHION ASSY. FR L=325        | 2               |  |
| 33                          | 9.110.080        | FLANGE BOLT M10x1.25x80       | 4               |  |
| 34                          | 8.020.034        | LOWER SUSPENSION ARM DUST CAP | 8               |  |
| 35                          | 7.010.002        | LOWER SUSPENSION ARM BUSHING  | 8               |  |
| 36                          | 9.040.001        | O-RING $\Phi$ 21.2x2.65       | 8               |  |
| 37                          | 4.000.023        | LOWER SUSPENSION ARM ASSY.    | 2               |  |
| 38                          | 6.000.003-GT     | FRONT WHEEL ASSY. L 19X7-8    | 1               |  |
|                             |                  |                               |                 |  |
|                             |                  |                               |                 |  |
|                             |                  |                               |                 |  |

# FIG.18

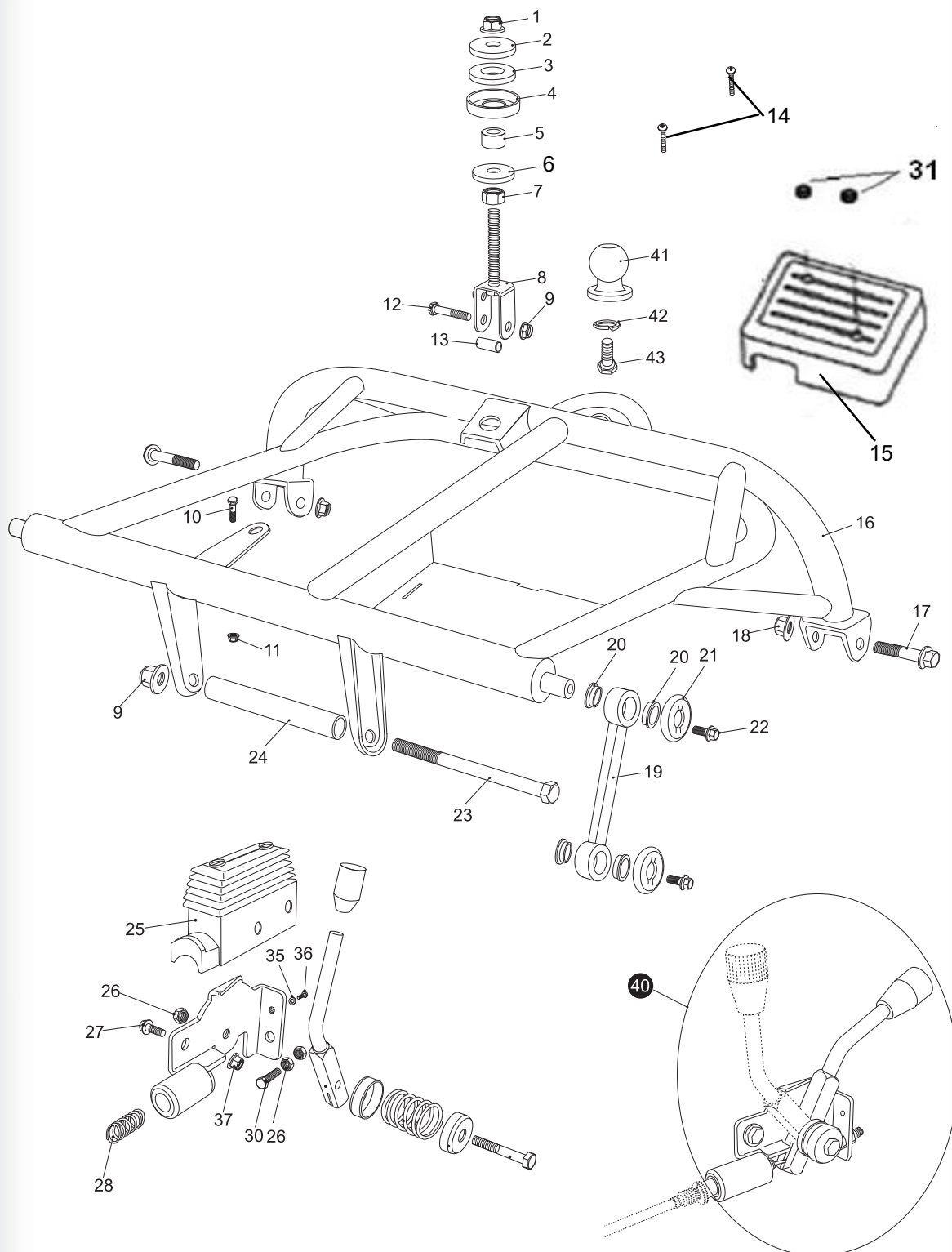
## REAR CARGO RACK/SEAT/BELT



| REAR CARGO RACK/SEAT/BELT |              |                              |          |  |
|---------------------------|--------------|------------------------------|----------|--|
| REF NO.                   | PART NO.     | DESCRIPTION                  | REGD NO. |  |
| 1                         | 2.000.061    | REAR CARGO RACK (B. G. R. )  | 1        |  |
| 2                         | 7.010.017    | TUBE SEAT Ø 25               | 2        |  |
| 3                         | 8.080.051    | RACK SUPPORT ARM (B. G. R. ) | 2        |  |
| 4                         | 9.108.020    | FLANGE BOLT M8x1.25x20       | 4        |  |
| 5                         | 9.210.008    | LOCKING FLANGE NUT. M8       | 4        |  |
| 6                         | 6.000.145    | FUEL TANK CAP COMP.          | 1        |  |
| 7                         | 4.000.029    | FUEL TANK COMP.              | 1        |  |
| 8                         | 9.108.025    | FLANGE BOLT M8x1.25x25       | 4        |  |
| 9                         | 8.010.034    | TANK COLLAR                  | 4        |  |
| 10                        | 7.020.005    | RUBBER MOUNT                 | 4        |  |
| 13                        | 6.000.046    | AUTO FUEL COCK ASS'Y.        | 1        |  |
| 14                        | 7.020.021    | FUEL TUBE COMP. #1           | 1        |  |
| 15                        | 7.020.031    | VACUUM TUBE COMP.            | 1        |  |
| 16                        | 7.020.022    | FUEL TUBE COMP. #2           | 1        |  |
| 17                        | 6.000.056    | FILTER                       | 1        |  |
| 18                        | 6.000.354    | SAFETY BELT COMP.            | 1        |  |
| 19                        | 6.000.376    | HEAD-REST                    | 2        |  |
| 20                        | 6.000.378    | SEAT COMP                    | 1        |  |
| 21                        | 6.000.377    | SEAT COMP. L                 | 1        |  |
| 22                        | 9.700.001    | SPECIAL BOLT, M7/16"x28      | 1        |  |
| 23                        | 9.700.002    | WASHER BELT Ø 12             | 9        |  |
| 24                        | 9.700.003    | BELT NUT M7/16"              | 9        |  |
| 25                        | 6.000.379    | SEAT RAIL SET.               | 1        |  |
| 26                        | 9.090.002    | TAIL LIGHT BULB              | 1        |  |
| 27                        | 6.000.387    | TAIL LIGHT                   | 1        |  |
| 28                        | 9.900.840    | BOLT SHARP M8X1.25X40        | 2        |  |
| 29                        | 9.220.008    | NUT M8                       | 2        |  |
| 30                        | 9.108.045    | FLANGE BOLT M8x1.25x 45      | 2        |  |
| 31                        | 6.000.156-RR | TURN LIGHT .L. RR.           | 1        |  |
| 32                        | 6.000.155-RR | TURN LIGHT .R. RR.           | 1        |  |
|                           |              |                              |          |  |

# FIG. 19

## REAR SWING ARM ASSY. UPPER

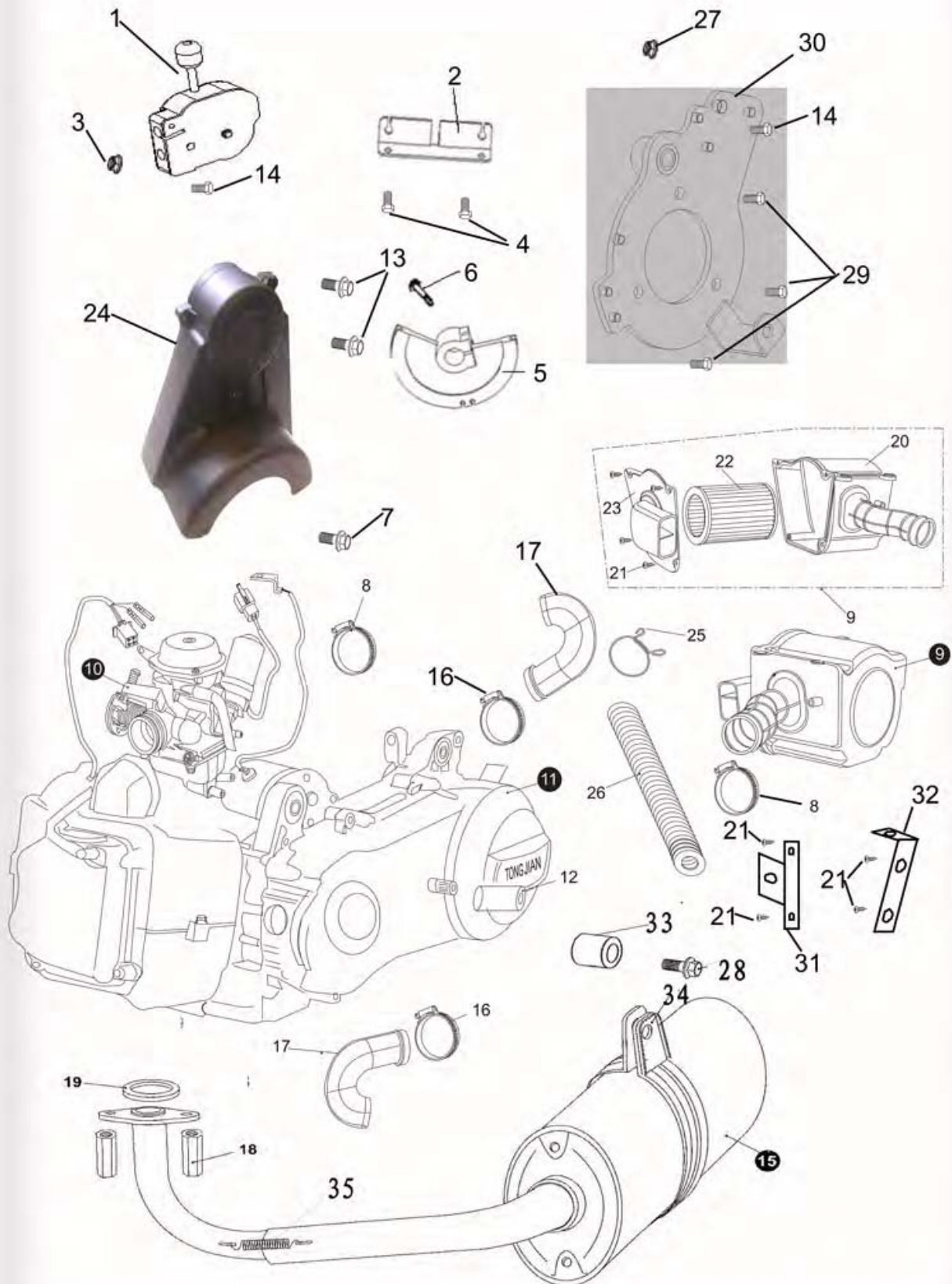


## REAR SWING ARM ASSY.UPPER

| REF NO. | PART NO.  | DESCRIPTION                    | REGD NO. |  |
|---------|-----------|--------------------------------|----------|--|
| 1       | 9.220.012 | LOCKING FLANGE NUT. M12        | 1        |  |
| 2       | 8.010.042 | WASHER. ENGINE MOUNT LINK      | 1        |  |
| 3       | 7.020.001 | CUSHION. ENGINE MOUNT LINK     | 1        |  |
| 4       | 8.020.045 | SPACER. ENGINE MOUNT LINK      | 1        |  |
| 5       | 8.010.041 | COLLAR. ENGINE MOUNT LINK      | 1        |  |
| 6       | 8.010.042 | WASHER. ENGINE MOUNT LINK      | 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 M6X16                     | 1        |  |
| 11      | 9.210.008 | LOCKING FLANGE NUT. M6         | 1        |  |
| 12      | 9.110.045 | BOLT M10X1.25X45               | 1        |  |
| 13      | 8.010.076 | COLLAR. ENGER MOUNT BOLT PLATE | 1        |  |
| 14      | 9.600.660 | SCREW. PAN M6X60               | 2        |  |
| 15      | 7.010.029 | COVER. ELECTRIC ASSY           | 1        |  |
| 16      | 2.000.029 | REAR SWING ARM ASSY. UPPER     | 1        |  |
| 17      | 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 | BUSH. CON'ROD                  | 8        |  |
| 21      | 8.020.013 | SPACER. CON'ROD                | 4        |  |
| 22      | 9.108.016 | BOLT M8X16                     | 4        |  |
| 23      | 9.710.195 | BOLT M10X1.25X195              | 1        |  |
| 24      | 8.010.025 | COLLAR ENGINE MOUNT            | 1        |  |
| 25      | 7.020.024 | COVER. REVERSE LEVER           | 1        |  |
| 26      | 9.210.008 | NUT. M8                        | 1        |  |
| 27      | 9.108.020 | BOLT M8X20                     | 2        |  |
| 28      | 8.040.004 | SPRING .CABLE                  | 1        |  |
| 30      | 9.108.020 | BOLT M8X20                     | 1        |  |
| 31      | 7.010.006 | BOLT COVER                     | 2        |  |
| 35      | 9.300.005 | WASHER FLAT 5                  | 1        |  |
| 36      | 9.600.512 | SCREW. PAN M5X12               | 1        |  |
| 37      | 9.220.008 | LOCKING FLANGE NUT. M8         | 2        |  |
| 40      | 6.000.042 | PARKING BRAKE LEVER ASSY       | 1        |  |
| 41      | 80.10.084 | TOW BALL                       | 1        |  |
| 42      | 9.400.016 | WASHER LOOK 16                 | 1        |  |
| 43      | 9.116.025 | BOLT M16X2X25                  | 1        |  |
|         |           |                                |          |  |
|         |           |                                |          |  |
|         |           |                                |          |  |
|         |           |                                |          |  |

FIG. 20

ENGINE/MUFFLER/AIR CLEANER



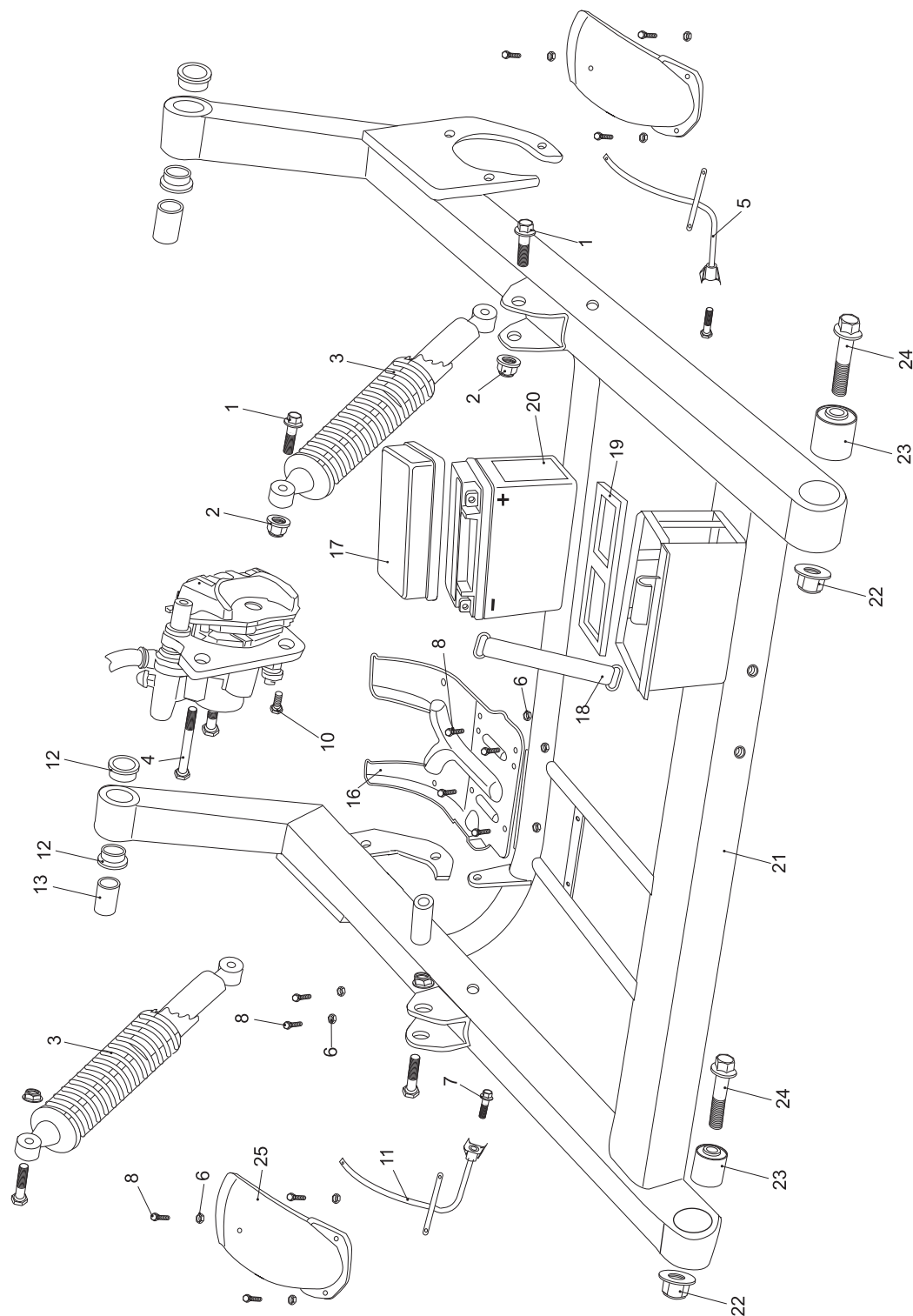
**ENGINE/MUFFLER/AIR CLEANER**

| REF NO. | PART NO.         | DESCRIPTION                      | REGD NO. |  |
|---------|------------------|----------------------------------|----------|--|
| 1       | 40700-300GK      | SHIFTER HOISE ASSY               | 1        |  |
| 2       | 40001-300GK      | REVERSE CABLE FIXED PLATE        | 1        |  |
| 3       | 618708000125     | LOCKING FLANGE NUT M8            | 1        |  |
| 4       | 578906012100     | FLANGE BOLT M6x12                | 2        |  |
| 5       | 40002-300GK      | SHIFTER DISK                     | 1        |  |
| 6       | 578306025100     | BOLT M6X25                       | 1        |  |
| 7       | 578708030125     | BOLT M8X30                       | 1        |  |
| 8       | 8.020.056        | AIR CLEANER CLAMP                | 2        |  |
| 9       | 4.000.018        | AIR CLEANER ASSY.                | 1        |  |
| 10      | PD24J            | CARBURETOR                       | 1        |  |
| 11      | 2.000.009-150XRS | ENGINE. 150cc                    | 1        |  |
| 12      | 8.030.037-150XRS | MUFFLER RACK SUPPORT             | 1        |  |
| 13      | 578906030100     | BOLT M6X30                       | 2        |  |
| 14      | 578708020125     | BOLT M8X20                       | 1        |  |
| 15      | 6.000.229        | MUFFLER COMP. EX                 | 1        |  |
| 16      | 8.020.055        | BOOT CLAMP                       | 2        |  |
| 17      | 6.000.162        | SIDE CASE BOOT.                  | 2        |  |
| 18      | 9.040.027        | MUFFLER JOINT NUT M6             | 2        |  |
| 19      | 9.040.005        | EX. PIPE GASKET                  | 1        |  |
| 20      | 7.010.047        | AIR CLEANER CASE COMP            | 1        |  |
| 21      | 9.805.003        | TAPPING M5x16 SCREW              | 9        |  |
| 22      | 6.000.151        | AIR CLEANER ELEMENT.             | 1        |  |
| 23      | 7.010.048        | AIR CLEANER COVER                | 1        |  |
| 24      | 7.010.033-150XRS | CHAIN PROTECTOR. RR              | 1        |  |
| 25      | 7.020.054        | AIR CLEANER CLIP.                | 1        |  |
| 26      | 7.010.057        | AIR CLEANER DUCT                 | 1        |  |
| 27      | 617708000125     | FLANGE NUT M8                    | 1        |  |
| 28      | 578708045125     | BOLT M8X45                       | 1        |  |
| 29      | 578308020125     | BOLT M8X20                       | 3        |  |
| 30      | 10111-300GK      | ENGINE MOUNT PLATE               | 1        |  |
| 31      | 4 9002-150       | AIR CLEANER MOUNT PLATE,FR       | 1        |  |
| 32      | 49003-150        | AIR CLEANER MOUNT PLATE,RR       | 1        |  |
| 33      | 58130-150        | DOME LIGHT BUSHING               | 1        |  |
| 34      | 8.020.166        | EMBRACE HOOP (MUFFLER COMP . EX) | 1        |  |
| 35      | 58235400N000     | SPRING (MUFFLER COMP . EX)       | 2        |  |
|         |                  |                                  |          |  |
|         |                  |                                  |          |  |
|         |                  |                                  |          |  |
|         |                  |                                  |          |  |
|         |                  |                                  |          |  |
|         |                  |                                  |          |  |



FIG. 21

## REAR SWING ARM

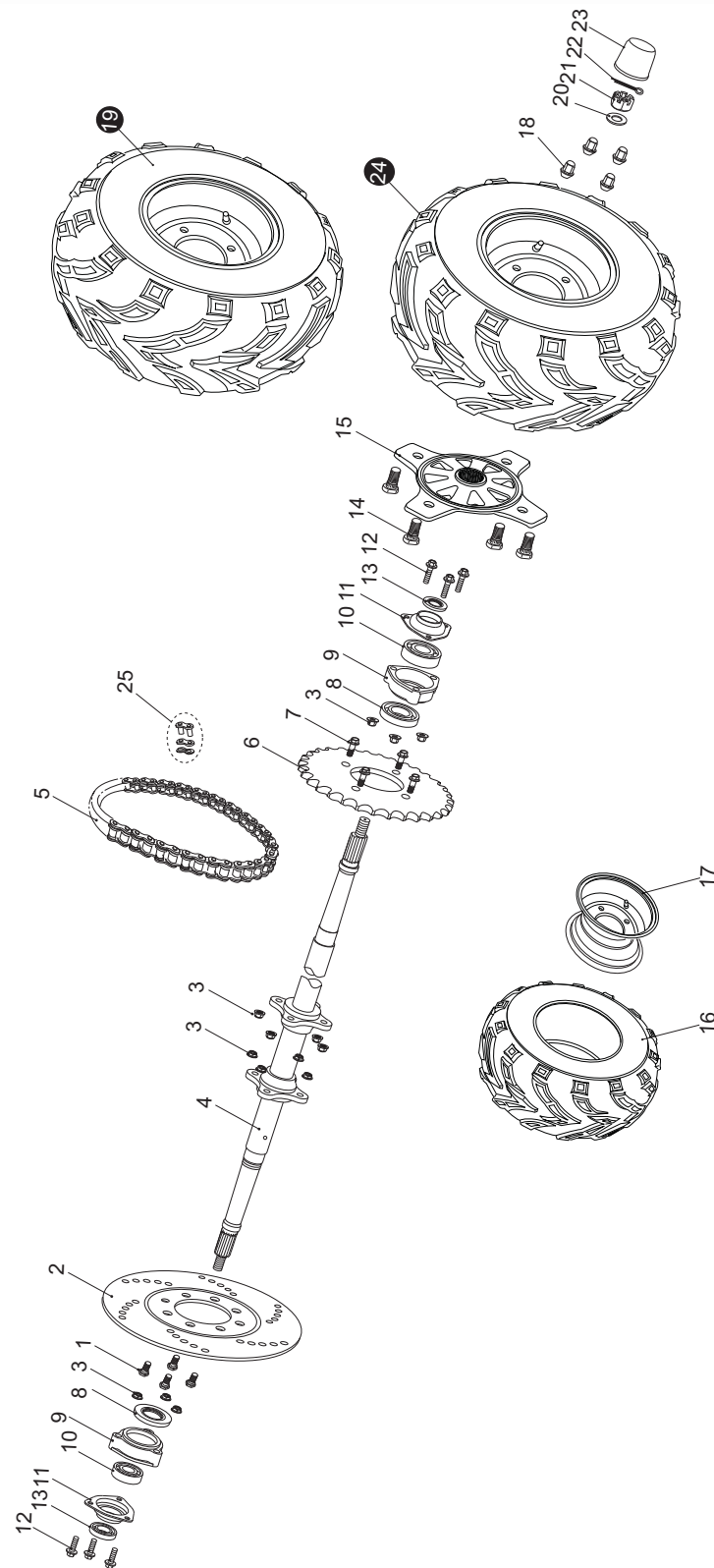




| REAR SWING ARM |                  |                           |          |  |
|----------------|------------------|---------------------------|----------|--|
| REF NO.        | PART NO.         | DESCRIPTION               | REGD NO. |  |
| 1              | 9.110.040        | FLANGE BOLT M10x1.25x40   | 4        |  |
| 2              | 9.220.010        | LOCKING FLANGE NUT M10    | 4        |  |
| 3              | 6.000.006        | CUSHION ASSY. RR          | 2        |  |
| 4              | 9.908.100        | BOLT STRAP M8x1.25x100    | 1        |  |
| 5              | 6.000.101-150XRS | REAR FENDER BRACKET, L    | 1        |  |
| 6              | 9.210.006        | LOCKING NYLON NUT M6      | 6        |  |
| 7              | 9.108.045        | FLANGE BOLT M8x1.25x45    | 2        |  |
| 8              | 9.906.016        | FLANGE BOLT M6x16         | 6        |  |
| 10             | 9.908.012        | BOLT STRAP M8x1.25x12     | 1        |  |
| 11             | 6.000.101-150XRS | REAR FENDER BRACKET, R    | 1        |  |
| 12             | 7.010.006        | SWING ARM BUSHING         | 4        |  |
| 13             | 8.010.028        | SWING ARM COLLAR          | 2        |  |
| 16             | 7.010.032-150XRS | 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             | 6.000.382        | BATTERY (YTX12-BS)        | 1        |  |
| 21             | 2.000.042        | RR. LOWER SWING ARM COMP. | 1        |  |
| 22             | 9.220.012        | LOCKING FLANGE NUT M12    | 2        |  |
| 23             | 7.020.008        | SWING ARM CUSHION BUSHING | 2        |  |
| 24             | 9.112.060        | FLANGE BOLT M12x1.25x60   | 2        |  |
| 25             | 7.010.064        | REAR FENDER L/R           | 2        |  |
|                |                  |                           |          |  |
|                |                  |                           |          |  |
|                |                  |                           |          |  |
|                |                  |                           |          |  |
|                |                  |                           |          |  |
|                |                  |                           |          |  |
|                |                  |                           |          |  |
|                |                  |                           |          |  |
|                |                  |                           |          |  |
|                |                  |                           |          |  |

# FIG.22

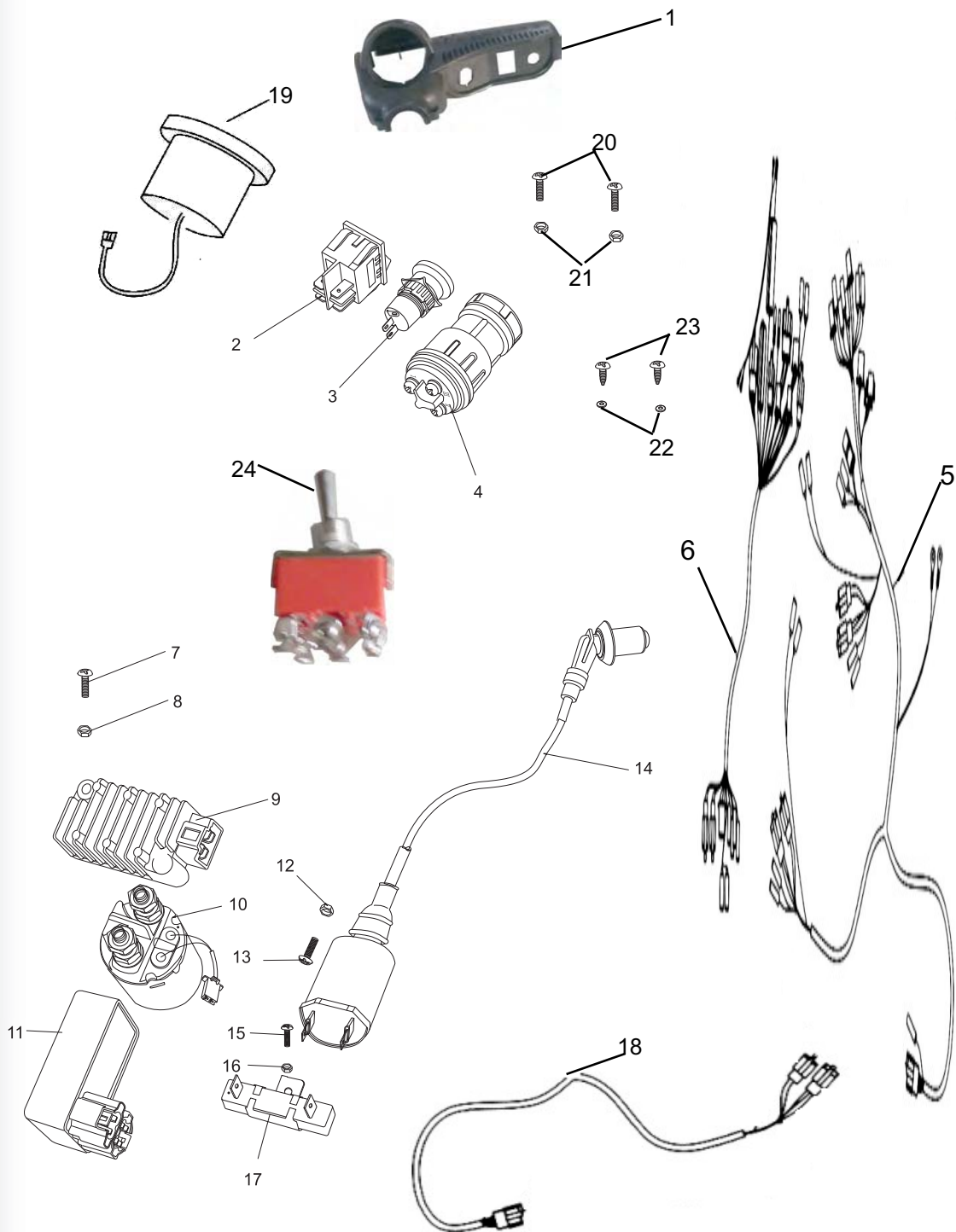
## REAR HOUSING



| REAR HOUSING |                  |                                  |          |  |
|--------------|------------------|----------------------------------|----------|--|
| REF NO.      | PART NO.         | DESCRIPTION                      | REGD NO. |  |
| 1            | 9.108.022        | BOLT-WASHER M8x1.25x22           | 4        |  |
| 2            | 8.010.053        | DISC. RR. BRAKE                  | 1        |  |
| 3            | 9.220.008        | LOCK FLANGE NUT. M8              | 14       |  |
| 4            | 8.010.057-150XRS | REAR AXLE                        | 1        |  |
| 5            | 9.070.002-150XRS | CHAIN O-RING DRIVE. (530RO : 54) | 1        |  |
| 6            | 8.010.077        | REAR SPROCKET                    | 1        |  |
| 7            | 9.108.027        | BOLT-WASHER M8x1.25x27           | 4        |  |
| 8            | 9.040.006        | DUST SEAL 50X34-7                | 2        |  |
| 9            | 8.030.008        | COMP. HOUSING RR. AXLE BRG       | 2        |  |
| 10           | 9.030.006        | BEARING 6206                     | 2        |  |
| 11           | 8.020.028        | BEARING BASE                     | 2        |  |
| 12           | 9.108.042        | BOLT-WASHER M8x1.25x42           | 6        |  |
| 13           | 9.040.007        | DUST SEAL 42X30-7                | 2        |  |
| 14           | 9.710.031        | BOLT. TIRE M10x1.25x31           | 8        |  |
| 15           | 8.010.056-150XRS | HUB. REAR AXLE                   | 2        |  |
| 16           | 7.020.035        | TIRE. RR 22x10-10                | 2        |  |
| 17           | 6.000.105        | RIM. RR                          | 2        |  |
| 18           | 8.010.118        | LUG NUT. CAP M10                 | 8        |  |
| 19           | 6.000.052        | REAR. WHEEL ASSY. R              | 1        |  |
| 20           | 9.700.016        | SPACER. RR. WHEEL 16             | 2        |  |
| 21           | 9.800.016        | CASTLE NUT. M16                  | 2        |  |
| 22           | 9.500.430        | COTTER PIN. 4X30                 | 2        |  |
| 23           | 7.020.039        | COVER. RR. HUB                   | 2        |  |
| 24           | 6.000.383        | REAR WHEEL ASSY. L               | 1        |  |
| 25           | 6.000.149        | MASTER LINK. CHAIN               | 1        |  |
|              |                  |                                  |          |  |
|              |                  |                                  |          |  |
|              |                  |                                  |          |  |
|              |                  |                                  |          |  |
|              |                  |                                  |          |  |
|              |                  |                                  |          |  |

# FIG.23

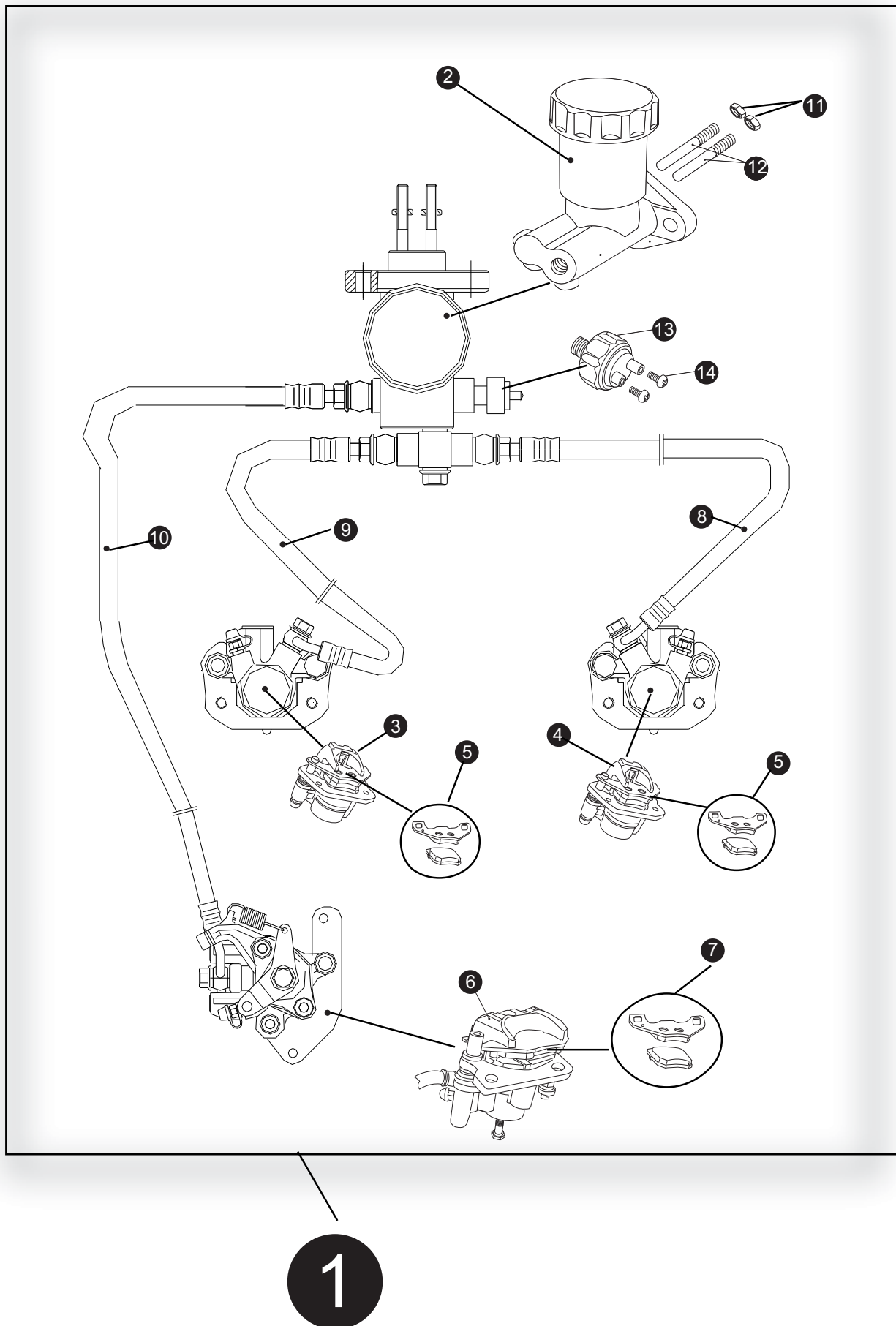
## WIRE HARNESS/ELECTRICAL



| WIRE HARNESS/ELECTRICAL |                  |                          |          |  |
|-------------------------|------------------|--------------------------|----------|--|
| REF NO.                 | PART NO.         | DESCRIPTION              | REGD NO. |  |
| 1                       | 7.010.027-150XRX | SWITCH PANEL COVER       | 1        |  |
| 2                       | 6.000.058        | HEADLIGHT SWITCH         | 1        |  |
| 3                       | 6.000.159        | ENGINE STOP BUTTON       | 1        |  |
| 4                       | 6.000.020-J      | IGNITION START SWITCH    | 1        |  |
| 5                       | 6.000.380-150XRX | WIRE HARNESS. MAIN       | 1        |  |
| 6                       | 6.000.381-150XRX | WIRE HARNESS. AUXILIARY  | 1        |  |
| 7                       | 9.100.620        | BOLT M6x20               | 2        |  |
| 8                       | 9.210.006        | NYLON LOCKING NUT M6     | 2        |  |
| 9                       | 6.000.124        | REGULATE RECTIFIER COMP. | 1        |  |
| 10                      | 6.000.035        | STARTING RELAY           | 1        |  |
| 11                      | 6.000.126        | C.D.I. UNIT COMP.        | 1        |  |
| 12                      | 9.210.005        | NYLON LOCKING NUT M5     | 1        |  |
| 13                      | 9.600.530        | ROUND HEAD BOLT M5x30    | 1        |  |
| 14                      | 6.000.125        | IGNITION COIL COMP.      | 1        |  |
| 15                      | 9.600.410        | ROUND HEAD BOLT M4x10    | 1        |  |
| 16                      | 9.210.004        | NYLON LOCKING NUT M4     | 1        |  |
| 17                      | 6.000.038        | RESISTOR COMP 10W 10Ω    | 1        |  |
| 18                      | 6.000.382-150XRX | WIRE HARNESS . DOMELIGHT | 1        |  |
| 19                      | 6.000.383-150XRX | ODOMETER                 | 1        |  |
| 20                      | 081805016100     | BOLT M5X16               | 1        |  |
| 21                      | 617005000100     | NUT M5                   | 1        |  |
| 22                      | 009705000000     | WASHER 5                 | 1        |  |
| 23                      | 282305015000000  | BOLT ST5.0X15            | 1        |  |
| 24                      | 6.000.384-150XRX | TURN LIGHT SWITCH        | 1        |  |
|                         |                  |                          |          |  |
|                         |                  |                          |          |  |
|                         |                  |                          |          |  |
|                         |                  |                          |          |  |
|                         |                  |                          |          |  |
|                         |                  |                          |          |  |
|                         |                  |                          |          |  |

FIG.24

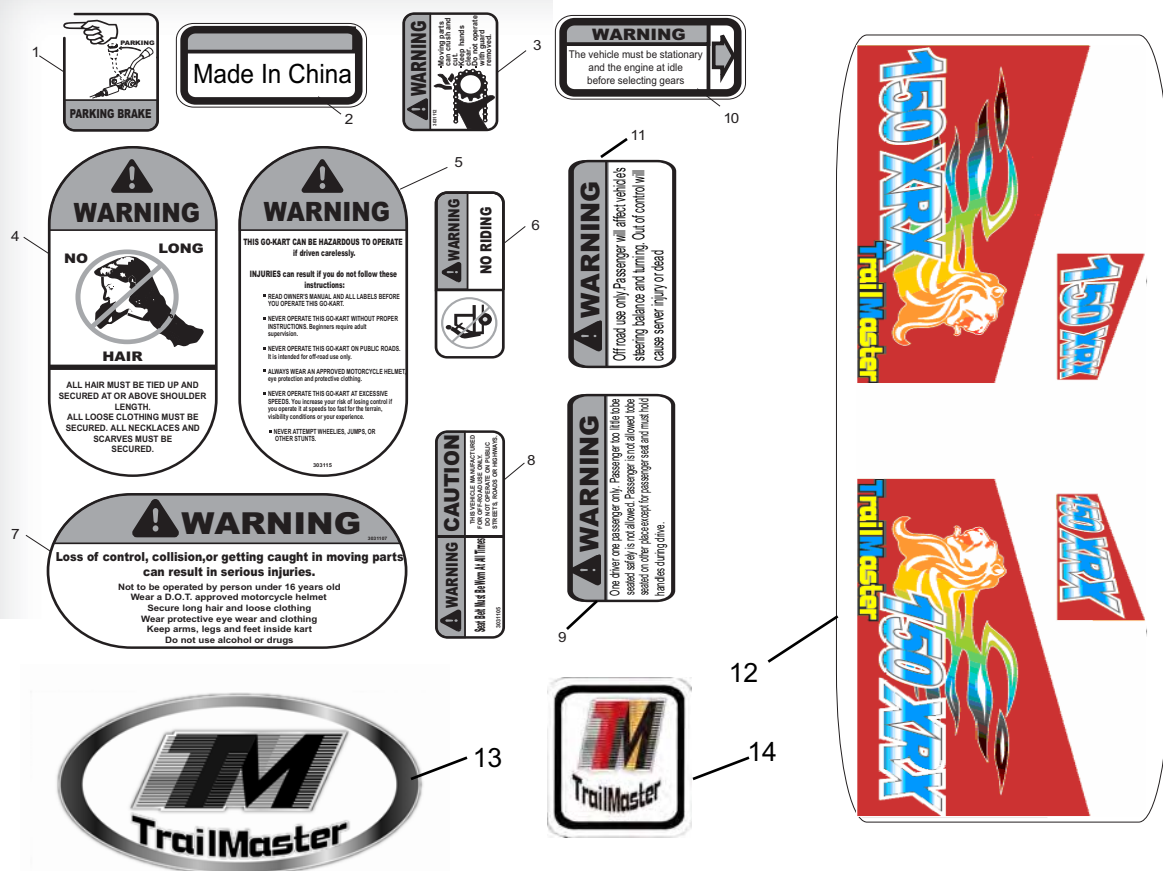
# BRAKE ASSY



# BRAKE ASSY

[illegible]

## WARNING STICKERS



## WARNING STICKERS

| REF NO. | PART NO.  | DESCRIPTION                  | REGD NO. |  |
|---------|-----------|------------------------------|----------|--|
| 1       | 9.090.007 | PARKING BRAKE LABEL          | 1        |  |
| 2       | 9.090.200 | Made In China 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       | 9.090.201 | WARNING LABEL                | 1        |  |
| 10      | 9.090.017 | WARNING LABEL                | 1        |  |
| 11      | 9.090.202 | WARNING LABEL                | 1        |  |
| 12      | 9.090.230 | Trademark Label ,150XRX      | 1        |  |
| 13      | 9.090.220 | Trademark Label ,TM          | 1        |  |
| 14      | 9.090.221 | Trademark Label ,TM          | 1        |  |
| 15      | 9.090.222 | TURN SWITCH Label ,          | 1        |  |
| 16      | 9.090.223 | SWITCH PANEL COVER . Label , | 1        |  |
|         |           |                              |          |  |
|         |           |                              |          |  |
|         |           |                              |          |  |