



L'S Owner's Manual

49cc

Welcome..!

...to the exciting world of motor scootering. This manual will assist you in getting your scooter up and operating. After you charge the battery and put regular gas (90 octane recommended) in the gas tank and two cycle oil in the separate tank for its storage, you are ready to go!

The automatic *CVT* transmission eliminates shifting and fancy foot work.

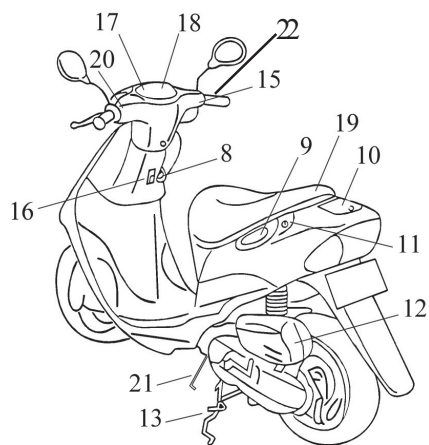
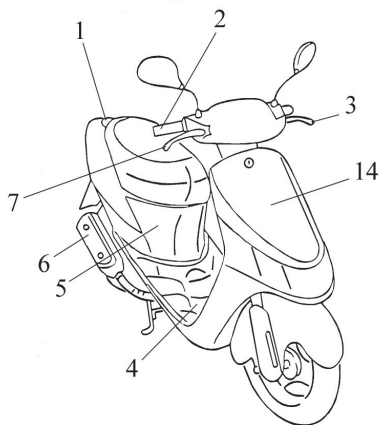
Always remember to pull in the brake lever on the handlebar to be able to engage the electric starter.

www.tngscooters.com

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Description



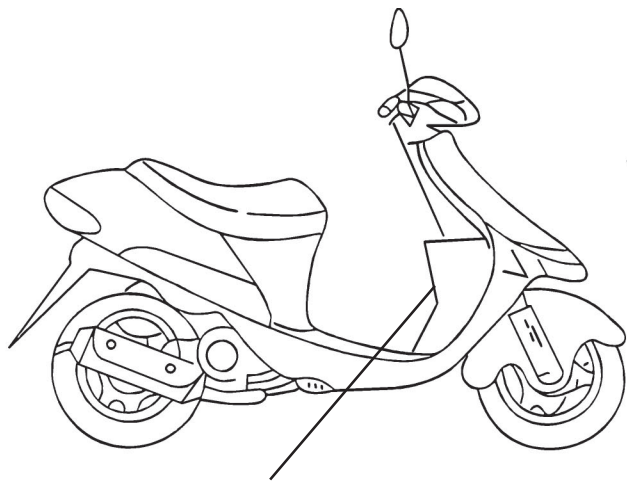
1. Fuel Tank
2. Throttle Control
3. Rear Brake Lever
4. Battery
5. Storage Compartment
6. Muffler

7. Front Brake Lever
8. Ignition Switch
9. Handle
10. Fuel Tank Cover
11. Seat Lock
12. Air Filter

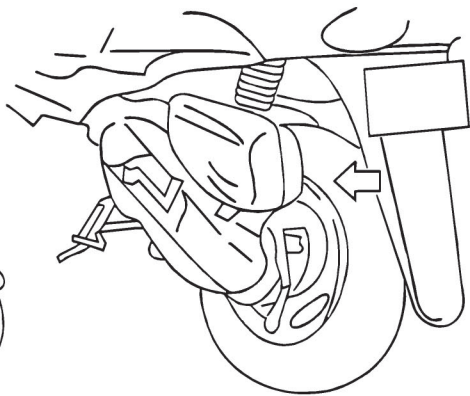
13. Main Stand
14. Front Storage
15. Electric Start
16. Storage Hook
17. Speedometer
18. Oil Warning Light

19. Oil Filler Cap
20. Horn, Turn signal,
Hi / Lo Beam Switch
21. Side Stand
22. Engine "Kill" Switch

Serial Numbers



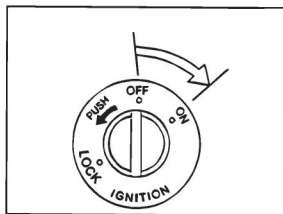
Vehicle Number



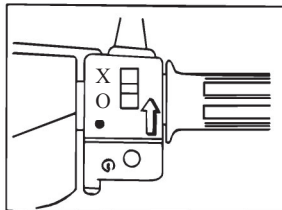
Engine Serial Number

Controls

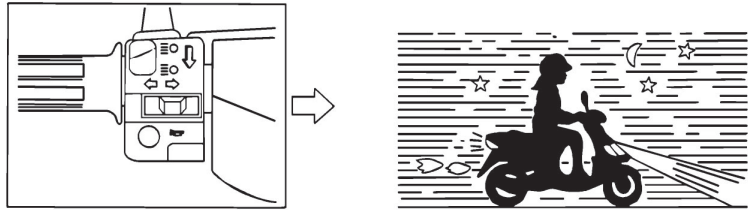
Ignition Switch



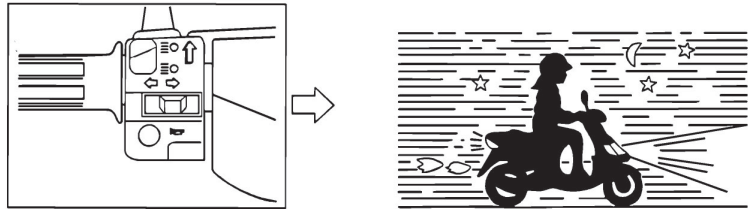
Engine “Kill” Switch



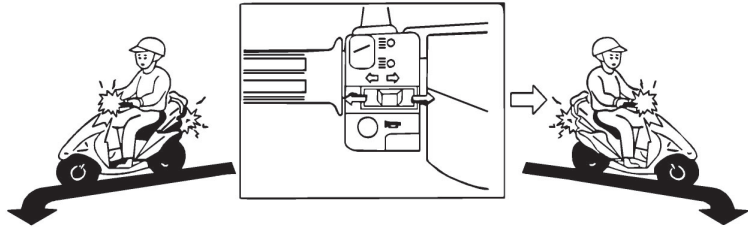
Dimmer Switch Low Beam

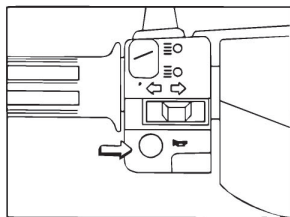


Dimmer Switch High Beam

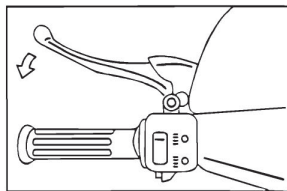


Turn Signals

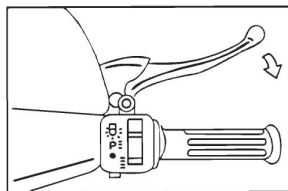




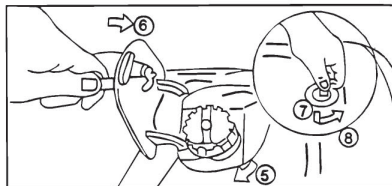
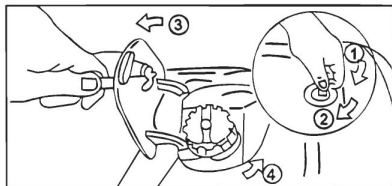
Rear Brake Lever



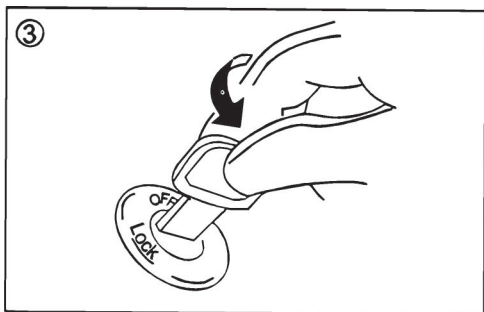
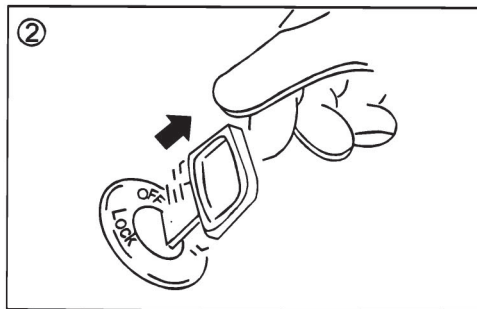
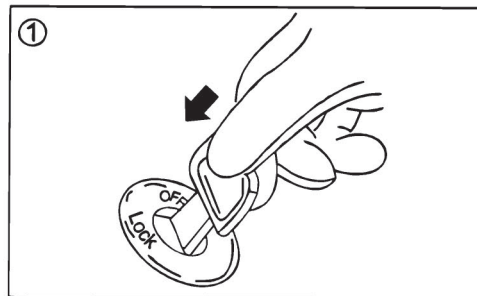
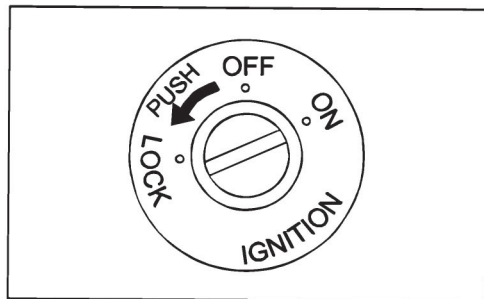
Front Brake Lever



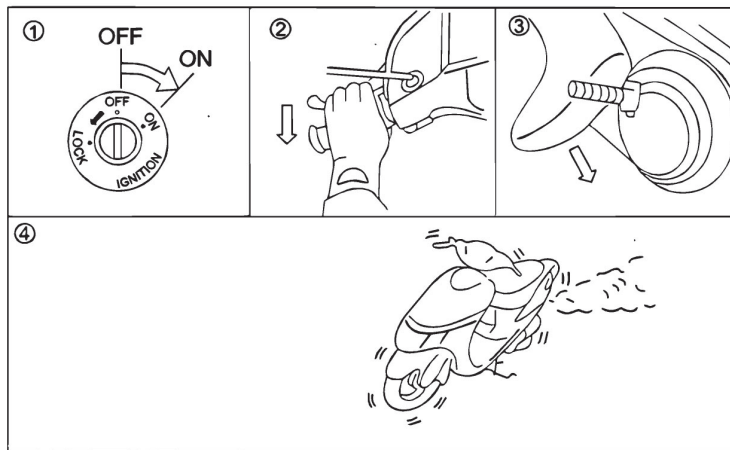
Fuel Tank Cap



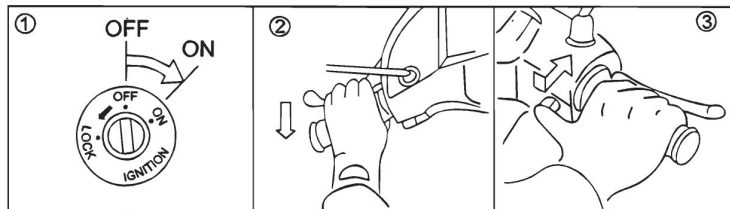
Steering Lock



Kick Start Operation



Electric Start Operation

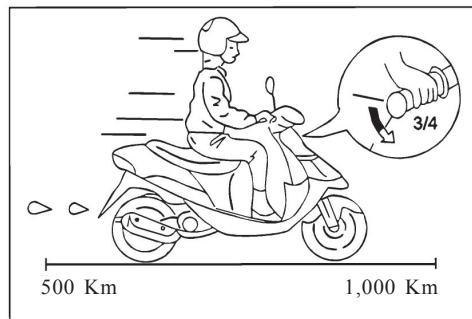
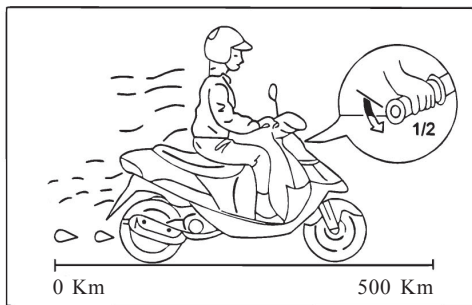


Break-in

Do not ride the scooter at full throttle!

1st 500 Km keep the throttle at less than $\frac{1}{2}$

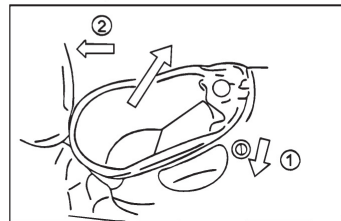
500 Km to 1,000 Km keep the throttle at less than $\frac{3}{4}$



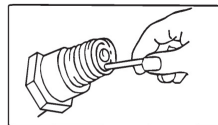
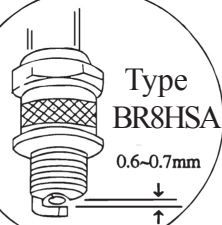
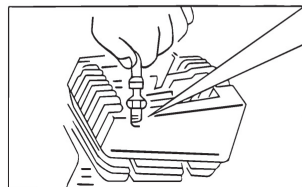
Maintenance

(Every 3,000 Km)

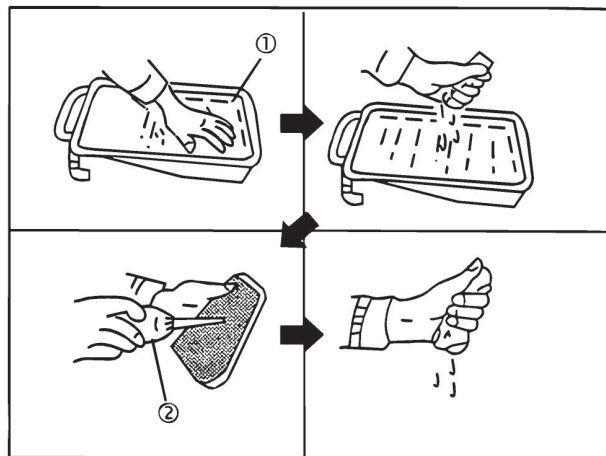
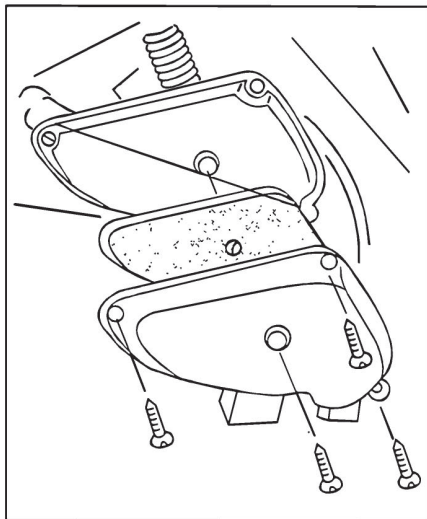
Tool Kit Location



Spark Plug

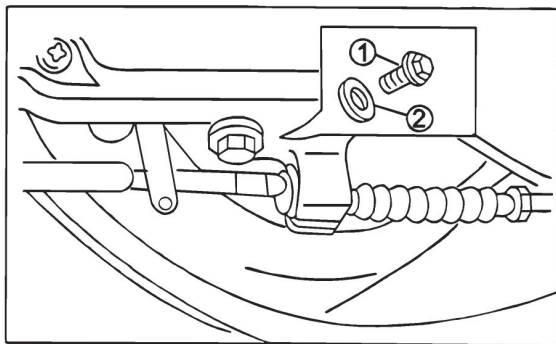


Air Filter



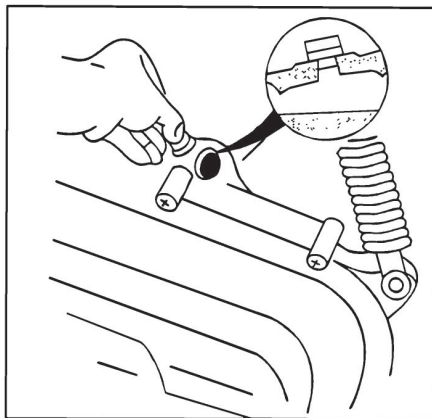
1. Foam Filter Cleaner
2. Foam Filter Oil

Transmission Oil Replacement



1. Oil Drain Plug
2. Washer

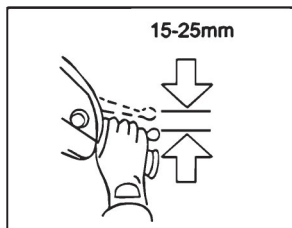
Checking Transmission Oil



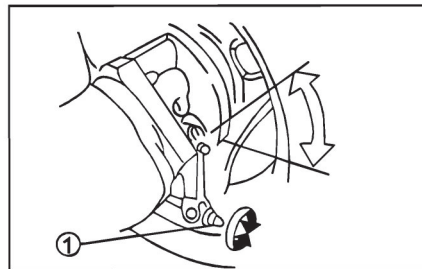
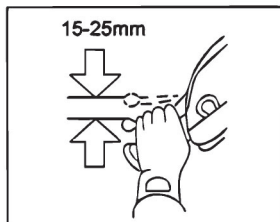
Replace every 4000 Km
(100 ccs)

Brake Adjustment

Front Brake

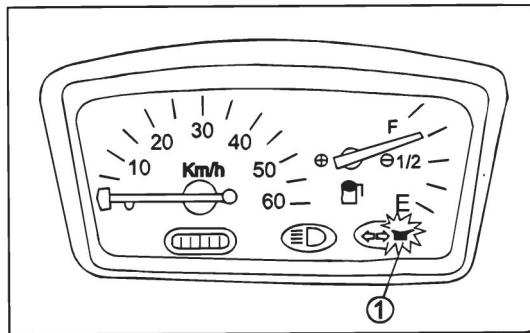


Rear Brake

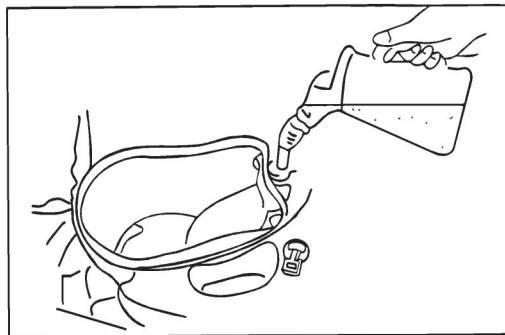


1. Adjuster

Engine Mixing Oil (2 cycle oil)



1. Oil Warning Light



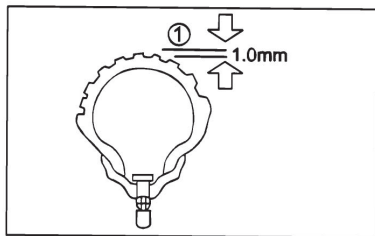
Use 2-stroke Injector oil
(1.2 Litres Max)
(Fill slowly to prevent overflow!)

Battery

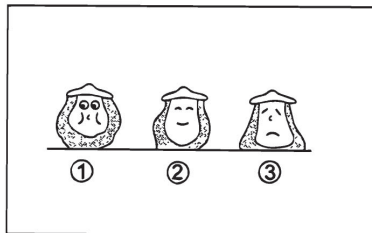
The battery is a “maintenance free” type. It should not require electrolyte replacement. To maintain a full charge on the battery, it is best to use the kick starter for short trips. Always charge the battery before storing the scooter for long periods of time. Open the battery plate on the floor board to expose the battery. If the battery posts appear to be dirty or have a white powder on them, they will require cleaning. This is done by:

- ☐ Check to see that the ignition is turned off.
- ☐ Disconnect the negative wire first, then the positive wire from the battery and lift the battery out of the battery compartment.
- ☐ Use a wire brush to clean the battery posts.
- ☐ Gently wash and dry the battery before replacing it into the scooter.
- ☐ Reverse the steps above to reinstall the battery into the scooter.

Tire Inspection



1. Tread Depth



1. Over Pressure
2. Perfect
3. Under Pressure

Tire Pressures

Front	Rear
122.5kpa (1.225kg/cm ²)	171.5kpa (1.715kg/cm ²)

Specifications

Maximum Load Capacity

Engine Type	330 lbs. 2-stroke single cylinder
Displacement	49 cc
Bore x Stroke	40x39.6mm
Compression Ratio	7:1
Lubrication	Automatic
Starter Type	Kick & Electric
Ignition Type	CDI
Spark Plug Type	BR8HSA or equivalent
Transmission	CVT
Overall Length	1620mm
Overall Width	625mm
Overall Height	1010mm
Wheelbase	1170mm
Min. Ground Clearance	80mm
Dry Weight	180 lbs.
Fuel Tank Capacity	1.5 Gal
Oil Tank Capacity	1 Liters
Front & Rear Tire	3.50-10
Battery - 12Volt w/charger	Located in Seat Compartment

Warranty

CMSI, Inc., warrants to the first retail purchaser of all TN'G scooters from an Authorized CMSI Dealer and each subsequent owner that the vehicle is free from defects in materials and workmanship for the period stated in this warranty section.

To Qualify For This Warranty

- The CMSI vehicles must be purchased from a dealer within the United States, Canada or Mexico who is authorized by CMSI to sell CMSI products.
- Dealer must be signed up and be familiar with CMSI warranty policy.

Warranty Verification Method

Contact a Authorized TN'G Dealer. For a complete list visit www.tngscooters.com

WARRANTY RESPONSIBILITY

The Distributor

CMSI Inc.

To repair or replace , at its option, any part which is proven to be defective in material or factory workmanship under normal use for the applicable warranty period.

- The repair or replacement of defective parts under this limited warranty must be made by an Authorized T N'G Dealer or service center. Warranty repairs will be made at no charge to you for parts or labor.
- Parts repaired or replaced under warranty are warranted only during the balance of the applicable warranty period.

The Authorized Dealer

To give you complete warranty documentation when you pick up your vehicle.

To perform warranty repairs on any T N'G product that qualifies for such repairs.

The selling dealer shall sign the Acceptance Certificate and a Card of Delivery upon delivery of the vehicle. The Card of Delivery outlines the steps your dealer has taken to fulfill his responsibility to properly assemble and service your new T N'G and inform you of proper break-in, warranty and service.

You, the Owner

- The customer should retain all service records for future reference.
- Service inspections and replacements in accordance with the time and mileage intervals given in the Maintenance Schedule are essential.
- You are responsible for paying all maintenance costs, including service interval costs.
- Failures which occur due to improper maintenance as determined by T N'G are not covered under this warranty.
- The customer may choose the extended warranty option for engines on 50cc and above models by purchasing the Interlube Opti-4 engine lubricant at the time of purchase of the new unit and use only that lubricant during the entire warranty period.

Your T N'G dealer is your best source for scheduled maintenance on your T N'G vehicle. Regardless of who performs your maintenance, if warranty repairs are needed, your T N'G dealer may ask you for documentation which may consist of one or more of the following:

- A Maintenance Record showing the odometer mileage and service date. Each entry should be signed or stamped by a person who is qualified to service your motorcycle or yourself if you have performed the maintenance.
- Copies of repair orders or other receipts for required maintenance that include the odometer mileage and service date.

NOTE: All maintenance receipts should be kept by the owner.

Warranty Time Period for 49cc scooter models

Coverage Begins

The date the motorcycle is delivered to the first retail purchaser.

Warranty

CMSI shall repair or replace, at its option, any part (including parts of the emission control system) that is found defective in material or workmanship under normal use for the applicable time period.

Parts or Labor
No charge to you.

Maintenance Table

		2005 Model Year				2006 Model Year			
		Scooters and Street Motorcycles				Scooters and Street Motorcycles			
				<i>With Opti-Lube</i>				<i>With Opti-Lube</i>	
	Engine	Parts	Labor	Parts	Labor	Parts	Labor	Parts	Labor
	50cc and below	12 mos.	3 mos.	n/a	n/a	12 mos.	6 mos.	24 mos.	12 mos.
	51cc and above	12 mos.	6 mos.	24 mos.	12 mos.	12 mos.	12 mos.	24 mos.	24 mos.
	Emission components	Parts	Labor	Parts	Labor	Parts	Labor	Parts	Labor
	less than 50cc	12 mos.	3 mos.	12 mos.	3 mos.	12 mos.	6 mos.	12 mos.	6 mos.
	less than 170cc	<i>lesser of 5 yrs. or 12,000 kms</i>				<i>lesser of 5 yrs. or 12,000 kms</i>			
	170cc to 280cc								
	280cc and above								
		<i>lesser of 5 yrs. or 18,000 kms</i>				<i>lesser of 5 yrs. or 18,000 kms</i>			
		<i>lesser of 5 yrs. or 30,000 kms</i>				<i>lesser of 5 yrs. or 30,000 kms</i>			
	Basic (non-engine)	Parts	Labor	Parts	Labor	Parts	Labor	Parts	Labor
	50cc and below	12 mos.	3 mos.	12 mos.	3 mos.	12 mos.	6 mos.	12 mos.	6 mos.
	51cc and above	12 mos.	6 mos.	12 mos.	6 mos.	12 mos.	12 mos.	12 mos.	12 mos.
	Body parts	Parts	Labor	Parts	Labor	Parts	Labor	Parts	Labor
	all models	12 mos.	1 mos.	12 mos.	1 mos.	12 mos.	1 mos.	12 mos.	1 mos.
	Batteries	6 months from battery manufacturer				6 months from battery manufacturer			

WARRANTY DISCLAIMERS, LIMITATIONS & EXCLUSIONS

Disclaimer of Consequential Damage & Limitation of Implied Warranties

CMSI Inc. disclaims any responsibility for:

- Loss of time
- Loss of use of vehicle
- Transportation expenses (rental and /or towing)
- Any other incidental or consequential damage
- Any other incidental or consequential expenses (storage)

Duration of Implied Warranties

Any Implied Warranties, including the implied warranty of merchantability and fitness for a particular purpose are limited to the duration of this written warranty.

State Laws May Vary

The previously listed limitations or exclusions may not apply to a motor scooter because of state laws. Some states may not allow limitations on how long an implied warranty lasts. Some states may not allow exclusion or limitation of incidental or consequential damages.

Your Legal Rights

These warranties give you specific legal rights. You may also have other rights which vary from state to state. It is the responsibility of the owner to be aware of state laws which pertain to this issue in your particular state.

These Warranties Do Not Cover

Failures which are not due to a defect in material or factory workmanship.

Parts or accessories affected or damaged by:

- Lack of required maintenance
- Owner abuse or misuse
- Accident and/or collision
- Normal wear
- Neglect
- Improper installation
- Unsuitable use in an application for which the part was not designed
- The incorporation or use of unsuitable attachments or parts
- The unauthorized alteration of any part

- The incorporation or use of unsuitable attachments or parts
- Deterioration from the elements
- Failure to follow “break-in” procedures
- Replacement of expendable maintenance item including, but not limited to:
 - Spark plug -gaskets -coolant -belts -Filters
 - hoses -lubricants -fuses -Tires (see Owner’s Manual)
- Paint and/or decals fading, peeling, blistering, chipping or rusting.
- Plastic body parts and panels

Use for the following activities, shall VOID coverage:

- Racing
- Competition
- Rental or other commercial uses
- Towing another vehicle, trailer or similiar device
- Alteration to the engine or drive train
- Any operation or use outside of that described in this Owner’s Manual

DISTRIBUTORS LIMITED WARRANTY – NEW MOTORCYCLE

TN’G warrants to the first retail purchaser and subsequent purchasers of this vehicle that the motorcycle is free from defects in materials and workmanship for the period stated in “Warranty Time Period”.

To Qualify For This Warranty

- The vehicle must originally have been purchased from a dealer within the United States who is authorized by CMSI Inc to sell CMSI products.
- Prior to delivery to the purchaser, setup and pre-delivery service must be performed by a dealer or service center who is authorized by CMSI Inc to deliver its vehicles.

Coverage begins

- Original tire on motorcycle - date of delivery
- Tire purchased as replacement - date of purchase

Warranty Coverage

Tires distributed and sold by CMSI which are either

- Original equipment on CMSI vehicles, or
- Specified by CMSI for the model the tire is installed on and purchased from an Authorized Dealer for replacement use.

To qualify for this warranty

- The tire must have been purchased from an Authorized CMSI Dealer.
- The tire was part of the original factory equipment.
- The tire must have been used for its designed purpose.

DISTRIBUTOR'S LIMITED WARRANTY- MOTORCYCLE TIRES

Warranty Time Period

90 days, or until the center tread is worn to a depth of 3/32" , whichever occurs first.

- Alteration of the odometer so that the actual mileage cannot be determined; alteration may VOID coverage

Replacement parts refer to Distributors Limited Warranties – Replacement Parts

The Obligation of CMSI Inc

To replace any tire which is proven to be defective in material or factory workmanship under normal use – until the tire center tread is worn to a depth of 3/32". At that point, there will be no further warranty consideration, regardless of the tire's age or mileage.

Your Obligation

To practice proper tire care and prudent motorcycle operation. You must maintain tire inflation pressure and load in accordance with information in the manual, the tire information label on the motorcycle, and restrictions molded into the tire sidewalls.

The replacement of a defective tire under this warranty must be made by an Authorized CMSI Inc Dealer.

Replacement Charges – up to 50% tread wear

Tire: No charge for a new direct replacement tire.

Labor : No charge for mounting and balancing – to the tire's original purchaser if the tire was factory or dealer installed.

You pay for mounting and balancing - if the tire was sold un-installed.

Replacement Charges – after 50% tread wear

Tire : 50% charge for a new direct replacement tire.

Labor : 50% charge for mounting and balancing.

This Warranty Does Not Cover

- Tires installed on non-CMSI Inc vehicles
- Tires worn beyond the service limit specified in the appropriate Owners” Manual.
- Tires rendered unserviceable by road hazard damage, such as impact breaks, punctures, cuts, or snags.
- Tires rendered unserviceable by running while flat, spinning, improper inflation, overloading, misalignment, improper mounting during replacement of after repair, or installation on unsuitable rims.
- Tires rendered unserviceable due to abuse or misuse such as towing a trailer.
- Tube-type tires fitted without inner tubes.
- Tires which have been repaired.
- Tires whose sidewalls have been modified by the addition or removal of material.

- Tires with superficial weathering, checking, or cracking.
- Tires used in racing or other competition.

DISTRIBUTOR'S LIMITED WARRANTY – REPLACEMENT PARTS

Warranty Time Period

90 days coverage for genuine CMSI Inc parts for defects in material and workmanship:

Coverage begins: The date of purchase from an Authorized CMSI Inc Dealer.

To qualify for this warranty, the genuine TN'G part

- Must have been purchased from an Authorized CMSI Dealer.
- Must have been used in an application for which it was designed.

Warranty Coverage

- CMSI Inc will repair or replace, at its option, any genuine T N'G part that is defective in material or workmanship under normal use.

- Proof of date of purchase is required.

Parts installed by an Authorized CMSI/TN’G Dealer:

Parts & Labor : No charge.

Parts not installed by an Authorized CMSI/T N’G Dealer:

Parts : No charge

Labor : You pay for removal/installation charges

This Replacement Parts Warranty Does Not Cover

The following exclusions apply specifically to replacement parts in addition to the exclusions listed:

- Tires (Refer to Distributor’s Limited Warranty – Motorcycle Tires)
- The motorcycle in which the part is installed.
- The color match of painted components (T N’G makes no warranty , expressed or implied, regarding the color match of painted components).

REPORTING SAFETY DEFECTS

If you believe that your vehicle has a defect which could cause an accident or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying CMSI Inc.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. For this reason it is very important for you to notify CMSI of any change of address or ownership. NHTSA cannot become involved in individual problems between you, your dealer or CMSI.

To contact NHTSA, you may either call the Auto Safety Hotline toll-free at 1-800-424-9393 (or 202-366-0123 in Washington DC area) or write to :NHTSA, US Department of Transportation, Washington DC 20590. You can also obtain other information about motor vehicle safety from the hotline.



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